



ECO
Environmental Consulting
Occupational Health

SURVEY FOR DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS



**Memorial Arena
69 Elliot Street
Brampton, Ontario**

Prepared For:

City of Brampton
2 Wellington Street West
Brampton, Ontario

Presented by:

ECO
75 Courtneypark Drive West, Unit 1
Mississauga, Ontario

**Building Code: P-097-01
ECO Project No.: 14963**

October 2 , 2015

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1.0 INTRODUCTION

ECOH Management Inc. (ECOH) was retained by City of Brampton to conduct a designated substances survey of Memorial Arena (hereby referred to as the “facility” or “project area”) located at 69 Elliot Street, Brampton, Ontario. The assessment was performed to establish the location and type of hazardous building materials incorporated in the facility’s structure(s) and its finishes, and to provide recommendations as necessary to fulfil requirements set forth under the Ontario Occupational Health and Safety Act and associated regulations.

Ms. Marlene Lopes of ECOH performed the fieldwork on August 10 and September 14, 2015.

This designated substance assessment was performed for the purposes of long-term management of designated substances and hazardous materials contained within building materials, and not for construction or renovation purposes. **An additional pre-renovation/pre-demolition assessment for designated substances and hazardous materials should be conducted prior to any future demolition, renovation or maintenance activities that may disturb building materials that potentially contain designated materials or hazardous substances.**

2.0 METHODOLOGY AND SCOPE

The methodology and scope of the Designated Substances Survey completed at this site are detailed in the overview document titled “Designated Substances Survey Scope of Work and Methodology Report”, dated October 2014, prepared by ECOH. A copy of this document is available from City of Brampton, and forms part of this report by reference.

3.0 FINDINGS

Material	Findings
Asbestos	Assumed ACM were identified in the facility as follows: <ul style="list-style-type: none">Window caulking, roofing materials, mechanical gaskets, internal components of boilers/water heaters or other mechanical systems were not sampled and should be assumed to be asbestos-containing if present. All assumed ACM materials observed were found to be in GOOD condition at the time of the survey.
Lead	Analysis indicated that the following materials do not contain lead: <ul style="list-style-type: none">Beige paint on walls (2400-3100 ppm) in Location SA-01 (Ice Rink).

Material	Findings
	<ul style="list-style-type: none"> • Off-White on ceiling (1400-1900 ppm) in Location MC-B11 (Compressor Room). <p>All other paints observed are present in good condition and should be treated as lead-based until sampled.</p> <p>No other major sources of lead or lead-containing products were identified during the survey; however, lead may be present in:</p> <ul style="list-style-type: none"> • Ceramic tiles, • Wiring connectors and electric cable sheathing, and • Piping and solder joints/bell-and-spigot joints on piping.
Mould	<p>Visible water damage/ suspect mould growth was noted in the following locations:</p> <ul style="list-style-type: none"> • 8 ft² on the wall in Location 1007 (Snack Bar), and • 9 ft² on ceiling in Location B110 (Storage)
Mercury	<p>Minor quantities are present as a vapour within fluorescent tubes lights and as a possible constituent of paints and adhesives.</p>
Silica	<p>Present in all concrete and masonry products.</p>
Polychlorinated Biphenyls (PCBs)	<p>Assumed to be present as a component of ballasts for fluorescent lights/ high-intensity discharge (HID) lights. Approximately 100 light fixtures are present within the facility.</p>
Benzene	<p>No potential sources of Benzene were identified.</p>
Other Designated Substances and Hazardous Materials	<p>Acrylonitrile, Arsenic, Coke Oven Emissions, Ethylene Oxide, Isocyanates, and Vinyl Chloride Monomer were not noted in significant quantities or forms, if at all.</p>
Underground/Aboveground Storage Tanks (UST/AST)	<p>UST/AST were not observed within the facility.</p>

Further findings are presented in attached Appendices:

- Appendix I – Survey Drawings, depicting the location of presumed and assumed asbestos-containing materials and room location numbers referenced throughout the report.
- Appendix II – Inventory of Hazardous Materials, providing a general description of the quantity or nature of the designated substance identified in each location within the facility.
- Appendix III – Observation Report, documenting instances of damaged hazardous materials and/or mould growth.

- Appendix IV – Results of Bulk Sample Analysis, providing a summary of all bulk sampled collected as well as laboratory chain of custodies and certificates of analyses.
- Appendix V – Inventory of Underground/Aboveground Storage Tanks (UST/AST).

4.0 RECOMMENDATIONS

General recommendations for compliance with applicable regulations have been provided in the overview document, “Designated Substances Survey Scope of Work and Methodology Report”, dated October 2014, prepared by ECOH. The following details are specific recommendations for the facility.

Recommendations for Corrective Action – Asbestos, Lead, Mould					
Location Number	Location Name	Hazardous Material	Quantity and Type of Material	Recommended Action	High Level Abatement Cost
1007	Snack Bar	Mould	8 SF Water Damage/Suspect Mould on Non-Asbestos Drywall Wall	REMOVE (Level 1)	\$1 000
B110	Storage	Mould	9 SF Mould on Non-Asbestos Drywall Ceiling	REMOVE (Level 1)	\$1 000
*Estimated figures are inclusive of all costs (abatement, waste disposal, consultant inspection, reporting, etc.). Each item is estimated separately. Combining abatement items would result in significantly reduced costs.					

- All other designated substances and hazardous materials identified on-site during this assessment are present in good condition and no other immediate action is required.
- Detailed recommendations regarding the remediation of the above noted materials have been provided in overview document titled “Designated Substances Survey Scope of Work and Methodology Report”, dated October 2014, prepared by ECOH. A copy of this document is available from City of Brampton.
- Prior to future construction or renovation projects, additional assessments will be required to confirm the presence of designated substances and hazardous materials that have been assumed to be on-site and/or that may be present in concealed areas (such as above solid ceilings, within bulkheads, pipe chases, etc.). The impact to designated substances and hazardous materials during future demolition, renovation or maintenance activities should be assessed on a project-by-project basis.

5.0 LIMITATIONS OF ASSESSMENT

Due to the nature of building construction and on-going building activities, some limitations exist as to the possible thoroughness of a building survey. The field observations, measurements and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings and conclusions presented in this report. The findings and conclusions drawn by ECOH Management Inc. (ECOH) are limited to the specific scope of work for which ECOH was retained and are based solely on information generated as a result of the specific scope of work authorized by City of Brampton. The results of the assessment are limited to visual inspection of areas made accessible to ECOH personnel and information obtained from facility personnel, when obtained.

ECOH warrants that the findings and conclusions contained herein have been made in accordance with generally accepted evaluation methods in the industry and applicable regulations at the time of the performance of the assessment. However, there is no warranty, expressed or implied, that this assessment has uncovered all environmental concerns on the subject site. In addition, ECOH cannot guarantee the completeness or accuracy of information supplied by a third party.

This report was prepared by ECOH for City of Brampton. The material in it reflects ECOH's professional interpretation of information available at the time of report preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. ECOH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Should additional information become available that suggests other environmental issues of concern beyond that described in this report, ECOH retains the right to review this information and modify conclusions and recommendations presented in this report accordingly.

6.0 CLOSURE

Should there be any questions regarding the contents of this report, please contact the undersigned at 905-795-2800.

ECOH

Environmental Consulting
Occupational Health

Prepared by:



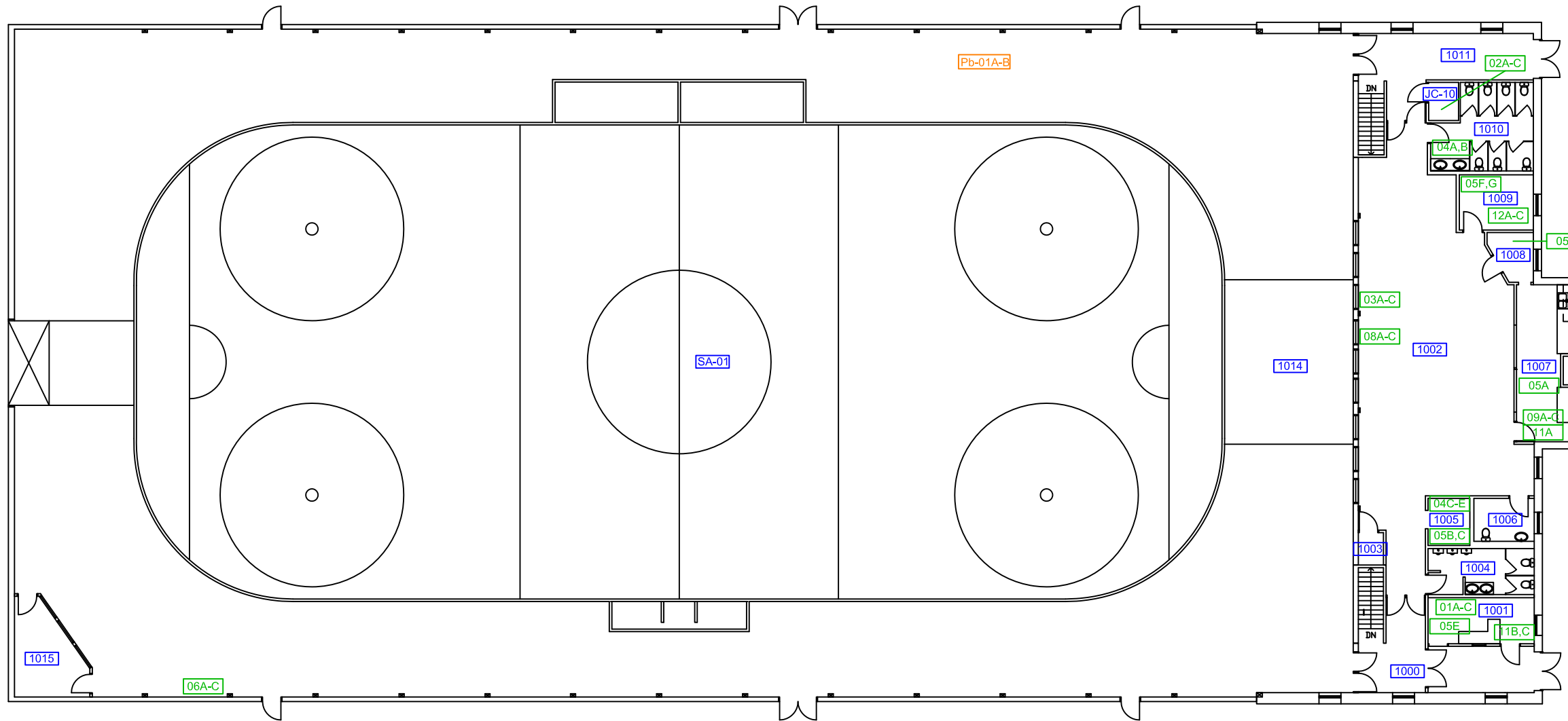
**Marlene Lopes B.A. (Env)
Environmental Scientist**

Reviewed by:



**Zafar Iqbal, B.Eng. (Civil)
Senior Project Manager**

APPENDIX I
SURVEY DRAWINGS



Legend

- 1001 Location Numbers
- Non-Friable Asbestos-Containing Material
- Friable Asbestos-Containing Material
- 01A Asbestos Bulk Sample Location (14963-P-096-03 ASB-XX)
- Pb-01 Lead Bulk Sample Location (14963-P-096-03 Pb-XX)

Figure 1

LOCATION:
69 Elliot Street,
Brampton, Ontario

BUILDING NAME:
Memorial Arena

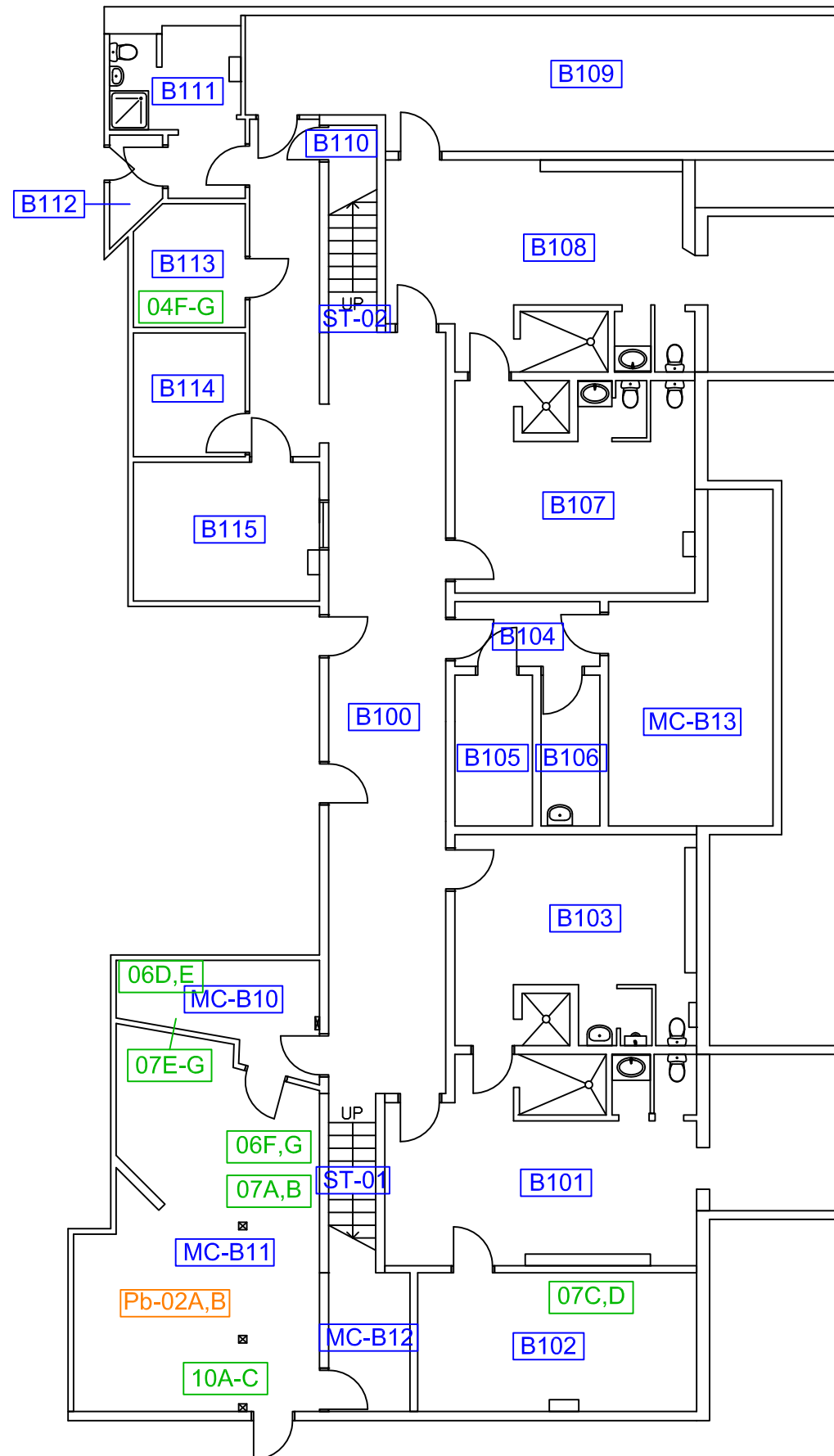
Ground Floor Plan
Locations of Designated Substances and
Hazardous Materials

CLIENT: City of Brampton

PROJECT NUMBER: 14963-P-097-01 **DATE:** August 2015 **DRW BY:** MM

CAD FILE: FIG1-2 P14963-P-097-01 DSUB Ground **SCALE:** Not to Scale **CHK BY:** ML





Legend

- 1001 Location Numbers
- Non-Friable Asbestos-Containing Material
- Friable Asbestos-Containing Material
- 01A Asbestos Bulk Sample Location
(14963-P-097-01 ASB-XX)
- Pb-01 Lead Bulk Sample Location
(14963-P-097-01 Pb-XX)

Figure 2

LOCATION:
69 Elliot Street,
Brampton, Ontario

BUILDING NAME:
Memorial Arena

Basement Floor Plan
Locations of Designated Substances and
Hazardous Materials

CLIENT: City of Brampton

PROJECT NUMBER: 14963-P-097-01 **DATE:** August 2015 **DRW BY:** MM

CAD FILE: FIG1-2 P14963-P-097-01 DSUB Ground **SCALE:** Not to Scale **CHK BY:** ML



APPENDIX II
INVENTORY OF IDENTIFIED HAZARDOUS MATERIALS

**The Corporation of the City of Brampton
Survey Summary Table**

Project Number: 14963-P-097-01

Date(s) of Current Survey: Aug 10 and Sept 14 2015

Building Name: Memorial Arena Organization Completing Survey: ECOH
 Building Address: 69 Elliot Street, Brampton ON Facility Coordinator: Paul Giddings

Summary of Findings
 1007 Snack Bar- 8 SF of water damaged/suspect mould on wall behind electrical panel on non-asbestos DJC wall,
 SA-01 Ice Rink- 5SF of flaking beige paint on non-asbestos plaster wall. Should be treated as lead-based as the lead content is greater than 0.1%,
 MC-B11 Compressor Room- 30SF flaking off-white paint on ceiling. Should be treated as lead-based as the lead content is greater than 0.1%, and
 B110 Storage - 9 SF of water damaged/mould growth on non-asbestos DJC ceiling.

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Access	Abatement Priority	Notes or Other Observations
0000	Exterior	Roof	Roofing Material	Asbestos	Not Sampled	ACM Assumed	33,128 SF	Good	C	3	
0000	Exterior	Walls	Caulking	Asbestos	Not Sampled	ACM Assumed	100 LF	Good	A	3	
B100	Corridor	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B101	Change Room 1	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B102	Storage	Ceiling	Plaster	Asbestos	14963-P-097-01-ASB-07C,D	None Detected	-	-	-	-	
B103	Change Room 2	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B104	Vestibule	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
B104	Vestibule	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
B105	Storage	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
B105	Storage	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
B106	First Aid	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
B106	First Aid	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
B107	Change Room 3	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B108	Change Room 3a	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B109	Brampton Capitol's Change Room	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B110	Storage	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	

The Corporation of the City of Brampton
Survey Summary Table

Project Number: 14963-P-097-01

Date(s) of Current Survey: Aug 10 and Sept 14 2015

Building Name:	Memorial Arena	Organization Completing Survey:	ECOH
Building Address:	69 Elliot Street, Brampton ON	Facility Coordinator:	Paul Giddings

Summary of Findings

1007 Snack Bar- 8 SF of water damaged/suspect mould on wall behind electrical panel on non-asbestos DJC wall,
SA-01 Ice Rink- 5SF of flaking beige paint on non-asbestos plaster wall. Should be treated as lead-based as the lead content is greater than 0.1%,
MC-B11 Compressor Room- 30SF flaking off-white paint on ceiling. Should be treated as lead-based as the lead content is greater than 0.1%, and
B110 Storage - 9 SF of water damaged/mould growth on non-asbestos DJC ceiling.

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Access	Abatement Priority	Notes or Other Observations
B110	Storage	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
B110	Storage	Ceiling	Drywall Joint Compound	Mould	Not Sampled	Visually Confirmed	9 SF	Poor	A		9 SF of water damaged/mould growth on ceiling
B111	Referees Change Room	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B112	Storage	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B113	Office	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
B113	Office	Ceiling	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-04F,G	None Detected	-	-	-	-	
B114	Storage	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
B115	Maintenance Room	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
MC-B10	Mechanical Room	Walls	Plaster	Asbestos	14963-P-097-01-ASB-06D,E	None Detected	-	-	-	-	
MC-B10	Mechanical Room	Ceiling	Plaster	Asbestos	14963-P-097-01-ASB-07E-G	None Detected	-	-	-	-	
MC-B10	Mechanical Room	Other	Transformer	PCBs	Not Sampled	None Detected	-	-	-	-	Labels indicated a non-PCB transformer
MC-B11	Compressor Room	Walls	Plaster	Asbestos	14963-P-097-01-ASB-06F,G	None Detected	-	-	-	-	
MC-B11	Compressor Room	Ceiling	Plaster	Asbestos	14963-P-097-01-ASB-07A,B	None Detected	-	-	-	-	
MC-B11	Compressor Room	Ceiling	Off-White Paint	Lead	14963-P-097-01-Pb-02A,B	1400-1900ppm	30 SF	Poor	A		Flaking off-white paint
MC-B11	Compressor Room	Pipe	Suspect Pipe Wrap	Asbestos	14963-P-097-01-ASB-10A-C	None Detected	-	-	-	-	
MC-B12	Mechanical Room	Walls	Plaster	Asbestos	14963-P-097-01-ASB-06F,G	None Detected	-	-	-	-	
MC-B12	Mechanical Room	Ceiling	Plaster	Asbestos	Visually Consistent with 14963-P-097-01-ASB-07	None Detected	-	-	-	-	
MC-B13	Mechanical Room	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	

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B110 Storage - 9 SF of water damaged/mould growth on non-asbestos DJC ceiling.

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Access	Abatement Priority	Notes or Other Observations
1000	Foyer	Walls	Caulking	Asbestos	Visually Consistent with 14963-P-097-01-ASB-03	None Detected	-	-	-	-	Brown caulking around windows
1001	Reception Office	Floor	Vinyl Floor Tile 1	Asbestos	14963-P-097-01-ASB-01A-C	None Detected	-	-	-	-	VFT1- 12"x12" Dark Blue with Light Blue Streaks
1001	Reception Office	Walls	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-05E	None Detected	-	-	-	-	
1001	Reception Office	Ceiling	Ceiling Tile 1	Asbestos	14963-P-097-01-ASB-11B,C	None Detected	-	-	-	-	CT1- 2'x4' Pinholes with Random Fissures
1002	Lobby/Viewing Area	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
1002	Lobby/Viewing Area	Walls	Caulking	Asbestos	14963-P-097-01-ASB-03A-C	None Detected	-	-	-	-	Brown caulking around windows
1002	Lobby/Viewing Area	Walls	Caulking	Asbestos	14963-P-097-01-ASB-08A-C	None Detected	-	-	-	-	Red caulking along viewing area countertop/windows
1003	Storage	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
1004	Men's Washroom	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
1004	Men's Washroom	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
1005	Storage Room	Walls	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-05B,C	None Detected	-	-	-	-	
1005	Storage Room	Ceiling	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-04C-E	None Detected	-	-	-	-	
1006	Washroom	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
1006	Washroom	Ceiling	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-04	None Detected	-	-	-	-	
1007	Snack Bar	Walls	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-05A	None Detected	-	-	-	-	
1007	Snack Bar	Walls	Drywall Joint Compound	Mould	Not Sampled	Visually Confirmed	8 SF	Poor	A		8 SF of water damaged/suspect mould growth on wall

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 MC-B11 Compressor Room- 30SF flaking off-white paint on ceiling. Should be treated as lead-based as the lead content is greater than 0.1%, and
 B110 Storage - 9 SF of water damaged/mould growth on non-asbestos DJC ceiling.

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Access	Abatement Priority	Notes or Other Observations
1007	Snack Bar	Ceiling	Ceiling Tile 1	Asbestos	14963-P-097-01-ASB-11A	None Detected	-	-	-	-	CT1- 2'x4' Pinholes with Random Fissures
1007	Snack Bar	Other	Suspect Insulation	Asbestos	14963-P-097-01-ASB-09A-C	None Detected	-	-	-	-	Suspect insulation observed above false ceiling.
1008	Storage	Walls	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-05D	None Detected	-	-	-	-	
1009	Office	Walls	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-05F,G	None Detected	-	-	-	-	
1009	Office	Ceiling	Ceiling Tile 2	Asbestos	14963-P-097-01-ASB-12A-C	None Detected	-	-	-	-	CT2- 2'x4' Small Round Fissures with Pinholes
1010	Women's Washroom	Walls	Drywall Joint Compound	Asbestos	Visually Consistent with 14963-P-097-01-ASB-05	None Detected	-	-	-	-	
1010	Women's Washroom	Ceiling	Drywall Joint Compound	Asbestos	14963-P-097-01-ASB-04A,B	None Detected	-	-	-	-	
1011	Foyer	Walls	Caulking	Asbestos	Visually Consistent with 14963-P-097-01-ASB-03	None Detected	-	-	-	-	Brown caulking around windows
1014	Zamboni Ramp & Storage	-	-	-	-	-	-	-	-	-	No suspect ACM identified. Other hazardous materials or designated substances were not noted in any significant quantities or forms.
1015	Score Room	Walls	Plaster	Asbestos	Visually Consistent with 14963-P-097-01-ASB-06	None Detected	-	-	-	-	
1015	Score Room	Ceiling	Plaster	Asbestos	Visually Consistent with 14963-P-097-01-ASB-07	None Detected	-	-	-	-	
JC-10	Janitor's Closet	Floor	Vinyl Floor Tile 2	Asbestos	14963-P-097-01-ASB-02A-C	None Detected	-	-	-	-	VFT2- 12"x12" Beige
SA-01	Ice Rink	Walls	Plaster	Asbestos	14963-P-097-01-ASB-06A-C	None Detected	-	-	-	-	
SA-01	Ice Rink	Walls	Beige Paint	Lead	14963-P-097-01-Pb-01A,B	2400-3100 ppm	5 SF	Poor	A		Flaking beige paint
ST-01	Stairway	Walls	Plaster	Asbestos	Visually Consistent with 14963-P-097-01-ASB-06	None Detected	-	-	-	-	
ST-02	Stairway	Walls	Plaster	Asbestos	Visually Consistent with 14963-P-097-01-ASB-06	None Detected	-	-	-	-	
Surveyor's Field Notes											

APPENDIX III
OBSERVATION REPORT



Client Name: City of Brampton	Site Location: Memorial Area 69 Elliot Street, Brampton, Ontario	Project No. 14963
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Photo No. 1.	
Date: August 10, 2015	
Location: 1007 Snack Bar	
Description: 8 SF of water damage/suspect mould growth on non-asbestos drywall wall behind electrical panel.	

Photo No. 2.	
Date: September 14, 2015	
Location: B110	
Description: 9 SF of mould growth on non-asbestos drywall ceiling.	



Client Name: City of Brampton	Site Location: Memorial Area 69 Elliot Street, Brampton, Ontario	Project No. 14963
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Photo No. 3.		
Date: August 10, 2015		
Location: MC-B10 Mechanical Room		
Description: Labels indicate non-PCB transformer		

APPENDIX IV
RESULTS OF BULK SAMPLE ANALYSIS

TABLE 1
Summary of Analysis - Collected Asbestos Bulk Samples

Sample Number	Sample Location	Sample Description	Results
14963-P-097-01-ASB-01A	Loc. 1001 (Reception Office)	Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-01B	Loc. 1001 (Reception Office)	Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-01C	Loc. 1001 (Reception Office)	Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-02A	Loc. JC-10 (Janitor's Closet)	Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-02B	Loc. JC-10 (Janitor's Closet)	Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-02C	Loc. JC-10 (Janitor's Closet)	Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	None Detected
		Associated Mastic	None Detected
14963-P-097-01-ASB-03A	Loc. 1002 (Lobby / Viewing Area)	Interior Brown Window Caulking	None Detected
14963-P-097-01-ASB-03B	Loc. 1002 (Lobby / Viewing Area)	Interior Brown Window Caulking	None Detected
14963-P-097-01-ASB-03C	Loc. 1002 (Lobby / Viewing Area)	Interior Brown Window Caulking	None Detected
14963-P-097-01-ASB-04A	Loc. 1010 (Women's Washroom)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-04B	Loc. 1010 (Women's Washroom)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-04C	Loc. 1005 (Storage Room)	Drywall Joint Compound – Ceiling	None Detected

TABLE 1
Summary of Analysis - Collected Asbestos Bulk Samples

Sample Number	Sample Location	Sample Description	Results
14963-P-097-01-ASB-04D	Loc. 1005 (Storage Room)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-04E	Loc. 1005 (Storage Room)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-04F	Loc. B113 (Office)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-04G	Loc. B113 (Office)	Drywall Joint Compound – Ceiling	None Detected
14963-P-097-01-ASB-05A	Loc. 1007 (Snack Bar)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05B	Loc. 1005 (Storage Room)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05C	Loc. 1005 (Storage Room)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05D	Loc. 1008 (Storage)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05E	Loc. 1001 (Reception Office)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05F	Loc. 1009 (Office)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-05G	Loc. 1009 (Office)	Drywall Joint Compound – Wall	None Detected
14963-P-097-01-ASB-06A	Loc. SA-01 (Ice Rink)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-06B	Loc. SA-01 (Ice Rink)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-06C	Loc. SA-01 (Ice Rink)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-06D	MC-B10 (Mechanical Room)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-06E	MC-B10 (Mechanical Room)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected

TABLE 1
Summary of Analysis - Collected Asbestos Bulk Samples

Sample Number	Sample Location	Sample Description	Results
14963-P-097-01-ASB-06F	Loc. MC-B11 (Compressor Room)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-06G	Loc. MC-B11 (Compressor Room)	Plaster – Wall (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07A	Loc. MC-B11 (Compressor Room)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07B	Loc. MC-B11 (Compressor Room)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07C	Loc. B102 (Storage)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07D	Loc. B102 (Storage)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07E	MC-B10 (Mechanical Room)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07F	MC-B10 (Mechanical Room)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-07G	MC-B10 (Mechanical Room)	Plaster – Ceiling (Skim Coat)	None Detected
		Rough Coat	None Detected
14963-P-097-01-ASB-08A	Loc. 1002 Lobby / Viewing Area	Interior Red Caulking	None Detected
14963-P-097-01-ASB-08B	Loc. 1002 Lobby / Viewing Area	Interior Red Caulking	None Detected
14963-P-097-01-ASB-08C	Loc. 1002 Lobby / Viewing Area	Interior Red Caulking	None Detected
14963-P-097-01-ASB-09A	Loc. 1007 (Snack Bar)	Suspect Ceiling Insulation	None Detected

TABLE 1
Summary of Analysis - Collected Asbestos Bulk Samples

Sample Number	Sample Location	Sample Description	Results
14963-P-097-01-ASB-09B	Loc. 1007 (Snack Bar)	Suspect Ceiling Insulation	None Detected
14963-P-097-01-ASB-09C	Loc. 1007 (Snack Bar)	Suspect Ceiling Insulation	None Detected
14963-P-097-01-ASB-010A	Loc. MC-B11 (Compressor Room)	Suspect Pipe Wrap	None Detected
14963-P-097-01-ASB-010B	Loc. MC-B11 (Compressor Room)	Suspect Pipe Wrap	None Detected
14963-P-097-01-ASB-010C	Loc. MC-B11 (Compressor Room)	Suspect Pipe Wrap	None Detected
14963-P-097-01-ASB-011A	Loc. 1007 (Snack Bar)	Ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	None Detected
14963-P-097-01-ASB-011B	Loc. 1001 (Reception Room)	Ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	None Detected
14963-P-097-01-ASB-011C	Loc. 1001 (Reception Room)	Ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	None Detected
14963-P-097-01-ASB-012A	Loc. 1009 (Office)	Ceiling Tile 2 (CT2) 2'x4' Small Round Fissures with Pinholes	None Detected
14963-P-097-01-ASB-012B	Loc. 1009 (Office)	Ceiling Tile 2 (CT2) 2'x4' Small Round Fissures with Pinholes	None Detected
14963-P-097-01-ASB-012C	Loc. 1009 (Office)	Ceiling Tile 2 (CT2) 2'x4' Small Round Fissures with Pinholes	None Detected
	Pink highlighted rows, if present, indicate asbestos-containing materials		

TABLE 2
Summary of Results for Lead Bulk Sampling

Sample number	Location	Description	Analytical Results (ppm)	Result
14963-P-097-01-Pb-01A	Loc. SA-01 (Ice Rink)	Beige Paint on Wall	2400 ppm	NEGATIVE
14963-P-097-01-Pb-01B	Loc. SA-01 (Ice Rink)	Beige Paint on Wall	3100 ppm	NEGATIVE
14963-P-097-01-Pb-02A	Loc. MC-B11 (Compressor Room)	Off-White Paint on Ceiling	1900 ppm	NEGATIVE
14963-P-097-01-Pb-2B	Loc. MC-B11 (Compressor Room)	Off-White Paint on Ceiling	1400 ppm	NEGATIVE
	Pink highlighted rows, if present, indicate lead-based materials			

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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-01A-Floor Tile 551508666-0001	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-01A-Mastic 551508666-0001A	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-01B-Floor Tile 551508666-0002	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-01B-Mastic 551508666-0002A	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-01C-Floor Tile 551508666-0003	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Initial report from 08/18/2015 16:40:02

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-01C-Mastic 551508666-0003A	Loc. 1001 Reception Office - Vinyl Floor Tile 1 (VFT1) 12"x12" Dark Blue with Light Blue Streaks	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-02A-Floor Tile 551508666-0004	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-02A-Mastic 551508666-0004A	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-02B-Floor Tile 551508666-0005	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-02B-Mastic 551508666-0005A	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-02C-Floor Tile 551508666-0006	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-02C-Mastic 551508666-0006A	Loc. JC-10 Janitor's Closet - Vinyl Floor Tile 2 (VFT2) 12"x12" Beige	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-03A 551508666-0007	Loc. 1002 Lobby / Viewing Area - Interior Brown Window Caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-03B 551508666-0008	Loc. 1002 Lobby / Viewing Area - Interior Brown Window Caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-03C 551508666-0009	Loc. 1002 Lobby / Viewing Area - Interior Brown Window Caulking	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04A 551508666-0010	Loc. 1010 Women's Washroom - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04B 551508666-0011	Loc. 1010 Women's Washroom - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-04C <i>551508666-0012</i>	Loc. 1005 Storage Room - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04D <i>551508666-0013</i>	Loc. 1005 Storage Room - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04E <i>551508666-0014</i>	Loc. 1005 Storage Room - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04F <i>551508666-0015</i>	Loc. B113 Office - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-04G <i>551508666-0016</i>	Loc. B113 Office - Drywall Joint Compound - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05A <i>551508666-0017</i>	Loc. 1007 Snack Bar - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05B <i>551508666-0018</i>	Loc. 1005 Storage Room - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-05C 551508666-0019	Loc. 1005 Storage Room - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05D 551508666-0020	Loc. 1008 Storage - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05E 551508666-0021	Loc. 1001 Reception Office - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05F 551508666-0022	Loc. 1009 Office - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-05G 551508666-0023	Loc. 1009 Office - Drywall Joint Compound - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06A-Skim Coat 551508666-0024	Loc. SA-01 Ice Rink - Plaster - Wall	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06A-Rough Coat 551508666-0024A	Loc. SA-01 Ice Rink - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-06B-Skim Coat 551508666-0025	Loc. SA-01 Ice Rink - Plaster - Wall	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06B-Rough Coat 551508666-0025A	Loc. SA-01 Ice Rink - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06C 551508666-0026	Loc. SA-01 Ice Rink - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06D-Skim Coat 551508666-0027	Loc. MC-B10 Mechanical Room - Plaster - Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06D-Rough Coat 551508666-0027A	Loc. MC-B10 Mechanical Room - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06E-Skim Coat 551508666-0028	Loc. MC-B10 Mechanical Room - Plaster - Wall	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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or other approved signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from 08/18/2015 16:40:02

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CustomerPO: P-097-01

ProjectID: 14963

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 Fax: (905) 795-2870
 Received: 08/11/15 5:15 PM
 Analysis Date: 8/18/2015
 Collected:

Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-06E-Rough Coat 551508666-0028A	Loc. MC-B10 Mechanical Room - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06F 551508666-0029	Loc. MC-B11 Compressor Room - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06G-Skim Coat 551508666-0030	Loc. MC-B11 Compressor Room - Plaster - Wall	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-06G-Rough Coat 551508666-0030A	Loc. MC-B11 Compressor Room - Plaster - Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07A-Skim Coat 551508666-0031	Loc. MC-B11 Compressor Room - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07A-Rough Coat 551508666-0031A	Loc. MC-B11 Compressor Room - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

John Biesiadecki (43)

Nicole Dimou (27)

Matthew Davis
or other approved signatory

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Received: 08/11/15 5:15 PM
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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-07B-Skim Coat 551508666-0032	Loc. MC-B11 Compressor Room - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07B-Rough Coat 551508666-0032A	Loc. MC-B11 Compressor Room - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07C-Skim Coat 551508666-0033	Loc. B102 Storage - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07C-Rough Coat 551508666-0033A	Loc. B102 Storage - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07D-Skim Coat 551508666-0034	Loc. B102 Storage - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07D-Rough Coat 551508666-0034A	Loc. B102 Storage - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____

John Biesiadecki (43)

Nicole Dimou (27)

Matthew Davis
or other approved signatory

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Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from 08/18/2015 16:40:02

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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-07E-Skim Coat 551508666-0035	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07E-Rough Coat 551508666-0035A	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07F-Skim Coat 551508666-0036	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07F-Rough Coat 551508666-0036A	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07G-Skim Coat 551508666-0037	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-07G-Rough Coat 551508666-0037A	Loc. MC-B10 Mechanical Room - Plaster - Ceiling	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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or other approved signatory

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Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-08A 551508666-0038	Loc. 1002 Lobby / Viewing Area - Interior Red Caulking	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-08B 551508666-0039	Loc. 1002 Lobby / Viewing Area - Interior Red Caulking	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-08C 551508666-0040	Loc. 1002 Lobby / Viewing Area - Interior Red Caulking	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-09A 551508666-0041	Loc. 1007 Snack Bar - Suspect Ceiling Insulation	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-09B 551508666-0042	Loc. 1007 Snack Bar - Suspect Ceiling Insulation	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-09C 551508666-0043	Loc. 1007 Snack Bar - Suspect Ceiling Insulation	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-10A 551508666-0044	Loc. MC-B11 Compressor Room - Suspect Pipe Wrap	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)

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Nicole Dimou (27)

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 Received: 08/11/15 5:15 PM
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-10B <i>551508666-0045</i>	Loc. MC-B11 Compressor Room - Suspect Pipe Wrap	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-10C <i>551508666-0046</i>	Loc. MC-B11 Compressor Room - Suspect Pipe Wrap	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-11A <i>551508666-0047</i>	Loc. 1007 Snack Bar - Lay-in-ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	Gray Fibrous Homogeneous	35% Cellulose 45% Min. Wool	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-11B <i>551508666-0048</i>	Loc. 1001 Reception Office - Lay-in-ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	Gray Fibrous Homogeneous	45% Min. Wool 35% Cellulose	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-11C <i>551508666-0049</i>	Loc. 1001 Reception Office - Lay-in-ceiling Tile 1 (CT1) 2'x4' Pinholes with Random Fissures	Gray Fibrous Homogeneous	45% Cellulose 35% Min. Wool	20% Non-fibrous (other)	None Detected
14963-P-097-01-ASB-12A <i>551508666-0050</i>	Loc. 1009 Office - Lay-in-ceiling Tile 2 (CT2) 2'x4' Small Round Fissures with Pinholes	Gray Fibrous Homogeneous	40% Min. Wool 40% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)
 John Biesiadecki (43)
 Nicole Dimou (27)

Matthew Davis
 or other approved signatory

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 Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

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Attn: Marlene Lopes ECOH Management, Inc. 75 Courtneypark Drive West Unit 1 Mississauga, ON L5W 0E3	Phone: (905) 795-2800 Fax: (905) 795-2870 Received: 08/11/15 5:15 PM Analysis Date: 8/18/2015 Collected:
Project: 14963 - City of Brampton - 69 Elliot Street- Memorial Arena (P-097-01)	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14963-P-097-01-ASB-12B <small>551508666-0051</small>	Loc. 1009 Office - Lay-in-ceiling Tile	Gray	40% Min. Wool	20% Non-fibrous (other)	None Detected
	2 (CT2) 2'x4' Small Round Fissures with Pinholes	Fibrous	40% Cellulose		
		Homogeneous			
14963-P-097-01-ASB-12C <small>551508666-0052</small>	Loc. 1009 Office - Lay-in-ceiling Tile	Gray	45% Cellulose	20% Non-fibrous (other)	None Detected
	2 (CT2) 2'x4' Small Round Fissures with Pinholes	Fibrous	35% Min. Wool		
		Homogeneous			

Analyst(s) _____
 John Biesiadecki (43)
 Nicole Dimou (27)


 Matthew Davis
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Received: 08/11/15 5:12 PM
Collected:

Project: 14963 CITY OF BRAMPTON- MEMORIAL ARENA- 14963-P-097-01

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
14963-P-097-01-PB-01A	551508616-0001	8/13/2015		2400 ppm
Site: BEIGE PAINT ON WALL- LOC. SA-01 ICE RINK				
14963-P-097-01-PB-01B	551508616-0002	8/13/2015		3100 ppm
Site: BEIGE PAINT ON WALL- LOC. SA-01 ICE RINK				
14963-P-097-01-PB-02A	551508616-0003	8/13/2015		1900 ppm
Site: OFF WHITE PAINT ON CEILING- LOC. MC-B11				
Desc: -COMPRESSOR ROOM				
14963-P-097-01-PB-02A	551508616-0004	8/13/2015		1400 ppm
Site: OFF WHITE PAINT ON CEILING- LOC. MC-B11				
Desc: -COMPRESSOR ROOM				

Lisa Podzyhun
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Canada Inc. Mississauga, ON A2LA Accredited Environmental Testing Cert #2845.08

Initial report from 08/18/2015 07:53:35

APPENDIX V
INVENTORY OF UST/AST STORAGE TANKS
(NO INFORMATION TO REPORT)