

































2. Recap and History of	of Problem 🕅 Mississauga	
Summary and Conclusion: As	sessment of Potential Factors	amec foster
Potential Factor	Level of Influence	WINCOLO
Stormwater to Utility Trench	Primary Cause	
FDC and Utility Trench Depths	May increase risk of basement water infiltration at specific locations	
Groundwater		
Creek Backwater	May contribute additional flows to the FDC	
Osprey Marsh Pond (SWM) Backwater	and utility trench	
Basement Walkouts	(Not sufficient to cause problem)	
Inflow/Infiltration to FDC		
FDC Hydraulics		
FDC Design	May affect conveyance capacity of FDC	
FDC Tailwater	system	
FDC Maintenance	(Not sufficient to cause problem)	
FDC Construction		
Cross-Connections		
Creek Maintenance	Not Applicable	
GO Station		
Sanitary System		
Lot Grading	Insufficient information	
Basement Construction / Changes		
18		10/13/2017







3. Ongoing Work and New Initiatives	MISSISSauga 😽
Storm Sewer Lining Work	amec foster wheeler
Priority action item from 2015 plan	191 Par factori
Conducted detailed research of available lin determine the most appropriate application i	ing technologies to method
 Pre-Lining Storm Sewer Leakage Testing un three (3) lining areas to confirm estimated ra 	ndertaken in each of the ate of existing leakage
Storm Sewer Lining Work undertaken for Ph December 2016 and March 2017 - approxim	nase 1 between nately 3.6 km of sewer pipe
22	10/13/2017















toster wheeler
followed the Priority Action Plan
Status
Phase 1 Constructed
Pre-Design Complete; tailed Design and Construction planned for 2018
Ongoing
ign and Construction planned for)18 (pending budget approval)
Under Consideration







4. Pr	July 13-14, 20 e-Storm Conditions	17 Storm Even	t 🕅 Mississauga	amec foster wheeler
•	Previous work had de sewers can result in a conditions would ther	emonstrated that water a build-up of water in t efore contribute to this	r leaking from storm he utility trench; wet s condition	
	Month	Recorded	Long Term Normal	
	June	147 mm (5.8 inches) Local City Gauge	71.5 mm (2.8 inches)	
	May	142.6 mm (5.6 inches) Pearson Airport	74.3 mm (2.9 inches)	
	April	110.8 mm (4.4 inches) Pearson Airport	68.5 mm (2.7 inches)	
34				10/13/2017

























Updated Action Plan	MISSISSauga	
City Actions		am fos wh
City Actions	Symptom or Cause?	Timing
ADDRESS SUB-DRAIN LEAKAGE	Cause	
Pursue prototype for installation and testing		Ongoing
• Expansion to other areas of Lisgar District		Pending Results
UTILITY TRENCH DEWATERING SYSTEM	Symptom	
Complete detailed design work		Ongoing
Construction and pumping testing		2018
FDC PUMPING STATION	Symptom	
Design and Construction		2018
ONGOING MONITORING	N/A	
Continue to monitor effectiveness of measures and response to ongoing storm events		Ongoing

6. U	pdated Action Plan		sissauga	
City A	ctions		am fos who	ec ter eeler
	City Actions	Symptom or Cause?	Timing	
ADDITI	ONAL STORM SEWER SYSTEM SEALING	Cause		
•	Sealing of catchbasin walls		Under Review	
•	Potential implementation of flow restrictors in catchbasins to prevent storm sewer from surcharging		Under Review	
•	Potential sealing of maintenance holes and catchbasin leads		Under Review	
SEALIN	IG OF THE FDC SYSTEM	Symptom		
•	Address identified leaks from video inspection (two minor locations along Black Walnut Trail)		Ongoing	
•	"Daylighting" a location in public right-of-way to review construction practice and material in its original state (in situ)		2017	
•	Video inspection of FDC laterals		2017	
•	Potential to consider further sealing measures		Under Review	
HIGH W	ATER PROTOCOL	N/A		
•	Continue to monitor and initiate pumping as warranted		Ongoing	
48			10)/13/20



