

# Appendix A

## Background Data Sources

**TABLE A-1**  
**CITY OF OTTAWA**  
**SHIRLEY'S BROOK & WATT'S CREEK - PHASE 2 STORMWATER MANAGEMENT STUDY**  
**SUMMARY OF BACKGROUND DATA SOURCES - REPORTS & STUDIES**  
Version 1.0  
Project No.: 60264539  
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File Name	Report Name/Study Name/Description	Date
Ultimate SWM (2002).pdf	SWMHYMO Model Schematics	2002-09
Interim SWM (2007).pdf	SWMHYMO Model Schematics	2007-01
Ottawa SDG Section 8 - September 2008.pdf	The City of Ottawa's Sewer Design Guideline - Revised Section 8	2008-09
Shirley's Watts SO ToR.doc	Draft Shirley's Brook/Watt's Creek Stormwater Management Study	2010-09-15
ShirleyKizell_May26 08_Draft.doc	Draft Report on the Proposed Diversion of a Portion of Shirley's Brook Subcatchment to the Kizell Drain Subcatchment	2008-06-13
Diversion Area - Kizell Area.pdf	Drawing	-
SWM Draft Exec Summary.pdf	Kizell Wetlands, Beaver Pond Wetlands and Beaver Pond Issues and Stormwater Infrastructure Review	2010-08-08
SWM Draft Part 201.pdf		
SWM Draft Part 202.pdf		
ShirleyWatts_Final.pdf/R-1462.pdf	Shirley's Brook and Watts Creek Subwatershed Study	1999-09
R-0216	Brook/Watts Creek Subwatershed Study - Revised Work Plan	1998-02
R-0296	City of Kanata - Kanata Town Centre Master Drainage Study - Watts Creek	1992
R-0129	Morgan's Grant Phase 10A Subdivision - Stormwater Site Management Plan, J.L Richards	2005
R-0924	Erosion Protection Measures on Watts Creek in Relation to Hazeldean North Development, J.L. Richards	1976
R-2064	Kanata Lakes North Serviceability Study. IBI Group	2006
R-1502-A	Shirley's Brook Floodplain Analysis & Stormwater Management Report. Novatech	2006
R-1502-B	Shirley's Brook Floodplain Analysis & Stormwater Management Report. Appendices. Novatech	2006
R-2082	Environmental Impact Statement - Kanata lakes North. Muncaster Environmental Planning	2003
R-2085	Kanata Lakes North - South of Kizell Pond Serviceability Study. IBI Group	2007
R-1588	Shirley's Brook SWM Facility 'C' Detailed Design Report. Novatech	2006
R-1462	Shirley's Brook and Watts Creek Subwatershed Study - Main Report. Dillon	2009
R-1803	Kanata North Environmental/Stormwater Management Plan. CH2MHill	2001
R-1013	Conceptual Stormwater Management Plan for the Camdev Property - Kanata North Business Park	1995
R-1724	Farrar Road Storm Sewer Stormwater Management Report - Kanata Research Park. Novatech	2007
GFR EA Final Appendices Report.pdf	Goulbourn Forced Road Environmental study Report	2007-10
GFR EA Final Report October 2007.pdf		
Kanata Lakes North south of Kizell.pdf/R-1709	Kanata Lakes North South of Kizell Pond Serviceability Study	2007-05
Kizell Beaver Pond Stormwater Infrastructure.pdf	Kizell Wetlands, Beaver Pond Wetlands and Beaver Pond Issues and Stormwater Infrastructure Review	2010-08-02
Kizell Drain by law no 3473.pdf	Report on Improvement of the Kizell Municipal Drain	1973-04
rpt_watts_creek_Phase_1_dmc (3).pdf	Watts Creek Watercourse and Watershed Management Plan	2010-08
TFD SWM Report June 2010 Update[1].pdf	Terry Fox Drive Extension Richardson Side Road to Second Line, Storm Water and Floodplain Management Final Report	2010-06
YOW_KanataLakes_CofA_5190-7L6RRY.pdf	CERTIFICATE OF APPROVAL - Kanata Lakes Stormwater Management Facility	2008-11-26
Beaver Dam Pond O&M Manual.pdf	Kanata Lakes Dam & Outlet Structure Operation & Maintenance Manuals	1990-04
R-1996.pdf	Kanata Lakes Storm Drainage Report	1985-03
R-1997.pdf	Kanata Lakes Storm Drainage Report - Addendum No. 1	1986-09
R-1995.pdf	Kanata Lakes, Beaver Pond, Urban Stormwater Quality Control	1994-11-16
2010_11_24_KNL Development Detailed SWMHYMO Output.pdf	Detailed Output (100 year event) Kizell Drain/Beaver Pond modeling (KNL Lands)	2002-08
R-2331.pdf	Water Management Plan for Shirley's Brook, Watts Creek, Kizell Drain and Hardwood Creek - Phase I: Problem Identification	1989-12
R-2333.pdf	Water Management Plan for Shirley's Brook, Watts Creek, Kizell Drain and Hardwood Creek - Phase II: Water Management Alternatives and Implementation	1989-12
R-2338.pdf	South March Development - Drainage Impact Analyses on Shirley's Brook - Phase II	1986-09
R-2362.pdf	Shirley's Brook Drainage Study	1992-12
R-2363.pdf	Flood Risk Mapping of Kizell Drain and Shirley Brook	1985-05
Richardson Ridge SWM Report_Review_April2012.pdf	Richardson Ridge SWM Report Review	2012-04
R-0093.pdf	Master Drainage Study Kanata North Urban Expansive Area Duck Pond Lands	1992-11
R-1425-B.pdf	Design Brief Morgan's Grant Phase 10A Stormwater Facility	2005-01-13
R-1563.pdf	Kanata Town Centre Stormwater Management Facility Phase 1 Operation and Maintenance Manual	2001-06
R-1564.pdf	Kanata Town Centre Stormwater Management Facility Phase 2 Operation and Maintenance Manual	2001-06
R-1571.pdf	Stormwater Management and Site Servicing Report Marshes Village Subdivision Kanata Research Park	2004-05
R-1589.pdf	Brookside Subdivision Infrastructure Servicing Study	2006-11
R-1591-A.pdf	Morgan's Grant Phase 12D Subdivision Stormwater Site Management Plan	2005-08
FINAL Shirley's Brook and Watt's Creek Existing Conditions Assessment Report.pdf	Shirley's Brook and Watt's Creek Existing Conditions Assessment Report	2012
Storm Water Management Plan-042000.pdf	Stormwater Management Plan Kanata Research Park	2000-04
2010_Flow Monitoring Report_FINAL.pdf	Flow Monitoring Program - City of Ottawa 2010	2010
2011 & 2012_Flow Monitoring Report_DRAFT.pdf	Shirley's Brook & Watt's Creek Existing Conditions Assessment Report for 2011 & 2012 - City of Ottawa	2012
Geotechnical Information	Ontario Geological Survey mapping, MOE well records and borehole reports from the City of Ottawa	2013-08
March Valley Road Culvert Replacement Report & Dwgs	Existing and Proposed Replacement Option Hydraulics Study & IFC Drawings, McIntosh Perry Consulting Engineers Ltd., June 21, 2012	2013-10



**TABLE A-2**  
**CITY OF OTTAWA**  
**SHIRLEY'S BROOK & WATT'S CREEK - PHASE 2 STORMWATER MANAGEMENT STUDY**  
**SUMMARY OF BACKGROUND DATA SOURCES - ADDITIONAL REFERENCE MATERIAL**



Version 1.0  
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Description	Format					Data Type						Date
	Excel	HEC Model	SWMHYMO Model	PDF	Others	Flow/Level	Precipitation	Modeling	Figures/ Report	SWMF	Others	
Ottawa Streamflow Monitoring Data	X					X						2010-2011
Hydraulic Structure Inventory	X										X	2011-07
MVCA Flood Plain Maps and HEC2 Model - Shirley's Brook		X			X			X	X			1989
MVCA Flood Plain Maps and Model - Watt's Creek		X		X	X			X	X			?
Kanata Golf Course Detention Area Field Investigation				X						X		2012
Beaver Pond Water Level Data	X					X						2011-2013 & 2014-06
Streamflow Data @ CK5_01 & CK6_002	X			X	X	X						2011-2013 & 2014-06
Rainfall Data @ March Road PS & MapleGrove	X						X					2011
Rainfall Data @ March Road PS, Beaver Pond - St. Gabriel School	X						X					2012-2013 & 2014-06
SWM Info				X					X	X		2012
Shirley's Brook Klondike HEC-RAS Models & Report		X	X	X	X			X	X			2006
Kanata Research Park Study - Novatech		X	X	X				X	X			2000
AES Ontario Climate Center Met Data					X		X					2012
Hydraulic Structure Survey				X					X			2012
Shirley's Brook and Watt's Creek Existing Conditions Assessment Report & Daily Discharge	X			X					X			2012
Rainfall Radar Data	X						X					2011-2013 & 2014-06
MCVA Snowcourse Data	X						X					1976-2012
Ottawa Sewer Design Guidelines				X							X	2004-11
Ottawa SDG Section 8												2008-09
Updated Ottawa IDF Info from EC				X							X	-
SWMHYMO User's Manual				X							X	2000-05
VO2 - Reference Manual				X							X	2002-04
TR-55 Manual				X							X	1986-06
MOE SWM Manual				X							X	2003-03/ 1994-06



**TABLE A-3**  
**CITY OF OTTAWA**  
**SHIRLEY'S BROOK & WATT'S CREEK - PHASE 2 STORMWATER MANAGEMENT STUDY**  
**SUMMARY OF BACKGROUND DATA SOURCES - GIS DATA**



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Layer Description	Data Type							Coverage	
	Topography	Land Use	Infrastructure	Hydrography	Monitoring	Geology and Soils	Imagery	Partial	Full
Contours - Major & Minor	X								X
LiDAR (2007)	X							X	
Detailed land use (2005)		X							X
ANSI		X							X
Impervious Cover (2012)		X							X
SOLRIS 2000 V1-2		X							X
Proposed Expansion		X						X	
Storm Sewer System and Structures			X						X
Storm Sewer Outfalls Boundary			X						X
Storm Catchments (2009)			X						X
SWM Facilities			X						X
Small culvert			X						X
Roads			X						X
Railway			X						X
Culvert			X						X
Bridge_culvert			X						X
Bridge			X						X
Structures			X						X
Parcel			X						X
Building Footprint			X						X
Property Ownership			X						X
Land Ownership			X						X
Transitway			X						X
Transmission Lines			X						X
Utility Lines			X						X
Wetlands				X					X
Subwatersheds				X					X
Stream networks				X					X
Municipal Drains				X					X
Floodplains				X					X
Urban Boundary				X					X
Green Belt				X					X
MAPDX ETS sites					X				X
Water Quality Sites					X				X
Rain gauges					X				X
Surficial geology						X			X
Ag Hydrologic Soil Groups						X		X	
OMAFRA Soils						X			X
Permeability						X			X
GS Physiography						X			X
Drift/Overburden						X			X
Bedrock Elevation						X			X
Recent digital Aerial Photographs (2011)							X		X

