

## Document 2 – Water and Wastewater Master Plan Individual Projects and Costs

### Water Master Plan (Distribution) – Capital Program

Project Name	Area	Identified in 2013 IMP	Timing	Total Capital Cost Estimate	Per cent Growth - funded
Kanata West Feedermain Ph2	Suburban West	Yes	2029-2034	\$4.4M	90%
Kanata West Feedermain Ph3	Suburban West	Yes	2029-2034	\$6.0M	90%
Kanata West Feedermain Ph4	Suburban West	Yes	2029-2034	\$1.38M	90%
March Rd Upgrades	Suburban West	Yes	2024-2029	\$5.0M	90%
Orleans Storage Upgrade	Suburban East	Yes	2029-2034	\$154.4M	100%
New Watermain for Urban Expansion Area E-4 & E-5	Tewin	No	2039-2044	\$6.3M	100%
Ottawa South Storage Upgrade	Suburban Southeast	Yes	2024-2029	\$45.3M	90%
New Riverside South ET	Suburban Southeast	Yes	2024-2029	\$33.8M	90%
Limebank Feedermain Phase 2 (to RSET)	Suburban Southeast	Yes	2024-2029	\$11.1M	90%
Limebank Feedermain Phase 3 (Earl Armstrong to Spratt)	Suburban Southeast	Yes	2029-2034	\$8.1M	90%
Greenbank Watermain	Suburban Southwest	Yes	2029-2034	\$14.1M	90%
New Watermain for Urban Expansion Area S-1	Suburban Southeast	No	2029-2034	\$5.1M	100%
New Watermains for Urban Expansion Area S-3	Suburban Southeast	No	2029-2034	\$15.2M	100%
Brittany Dr Suction Upgrade	Urban and Downtown	Yes	2039-2044	\$2.8M	50%
New 2C-OGB Water Feed Phases 1 & 2	Tewin/South Urban Community	No	2029-2034	\$174.3M	100%
Bi-Directional Water Feed	Tewin/ South Urban Community	No	2029-2034	\$52.9M	100%
New 2C-OGB Water Feed Phase 3	Tewin/ South Urban Community	No	2034-2039	\$82.7M	88%
Tewin - Pump Station & Reservoir Phase 1	Tewin	No	2029-2034	\$44.1M	100%
Tewin - Pump Station & Reservoir Phase 2	South Urban Community	No	2034-2039	\$18.9M	100%
Conroy Tank Feed	Tewin/ South Urban Community	No	2034-2039	\$12.6M	88%
<b>TOTAL</b>				<b>\$711M</b>	

## Wastewater Master Plan (Collection) – Capital Program

Project Name	Area	Identified in 2013 IMP	Timing	Total Capital Cost Estimate	Per cent Growth funded
Richmond King Street Trunk Sewer Upgrade (Phase 4a)	Rural	No	2024-2029	\$6.6	75%
Carp PS Capacity Upgrade and Forcemain	Rural	Yes	2029-2034	\$30.1	75%
Richmond Forcemain Twinning (Phase 4)	Rural	Yes	2024-2029	\$38.6	75%
Manotick Main PS Capacity Upgrade (Phase 1)	Rural	Yes	2024-2029	\$2.5	64%
Manotick Main PS Capacity Upgrade (Phase 2)	Rural	Yes	2044-2046	\$4.3	5%
Mahogany PS Capacity Upgrade	Rural	No	2024-2029	\$3.3	90%
Penfield Trunk Sewer Upgrade	Suburban West	No	2029-2034	\$7.8	95%
Kanata West Diversion Sewer	Suburban West	No	2029-2034	\$3.0	95%
Kanata West Sewer Oversizing	Suburban West	No	2029-2034	\$1.8	100%
Kanata West PS Capacity Upgrade	Suburban West	Yes	2029-2034	\$3.3	100%
March PS Capacity Upgrade	Suburban West	Yes	2039-2044	\$2.8	70%
Signature Ridge Forcemain	Suburban West	Yes	2029-2034	\$5.9	75%
Stittsville PS Decommissioning and Gravity Sewer	Suburban West	Yes	2024-2029	\$6.5	30%
Shea Road PS Capacity Upgrade and Forcemain	Suburban West	No	2029-2034	\$7.8	100%
Acres PS Risk Mitigation (Phase 2)	Suburban West	Yes	2024-2029	\$25.5	48%
Acres PS Capacity Upgrade(Phase 3)	Suburban West	Yes	2029-2034	\$34.1	39%
Acres PS Overflow (Phase 4)	Suburban West	Yes	2034-2039	\$26.3	80%
Spratt Road Trunk Sewer Upgrade	Suburban South West	No	2029-2034	\$13.8	95%
Conroy Trunk Sewer Upgrade (Phase 1)	Suburban South East	Yes	2029-2034	\$12.3	95%
Conroy Trunk Sewer Upgrade (Phase 2)	Suburban South East	No	2029-2034	\$8.8	95%
Walkley Sewer Upgrades	Suburban South East	No	2034-2039	\$2.7	95%
Forest Valley PS Capacity Upgrade (Phase 1)	Suburban East	Yes	2029-2034	\$2.6	4%

Forest Valley PS Capacity Upgrade (Phase 2)	Suburban East	Yes	2044-2046	\$3.0	100%
Tenth Line PS Capacity Upgrade and Forcemain	Suburban East	No	2034-2039	\$2.3	100%
Merivale South Sewer Upgrade and Extension	Urban and downtown	No	2024-2029	\$10.1	100%
Pinecrest Trunk Sewer Upgrade	Urban and downtown	No	2029-2034	\$11.0	95%
Pinecrest Trunk Flow Reduction	Urban and downtown	No	2024-2029	\$5.3	95%
Merivale North Diversion Sewer	Urban and downtown	No	2024-2029	\$1.4	95%
Merivale North Sewer Replacement and Oversizing	Urban and downtown	No	2024-2029	\$4.6	5%
O'Connor Flood Control Works	Urban and downtown	No	2034-2039	\$119	5%
Rideau River Collector Twinning	Urban and downtown	Yes	2034-2039	\$21.4	100%
Prince of Wales Diversion Sewer	Urban and downtown	No	2039-2044	\$5.3	80%
Crystal Beach Diversion PS Upgrade and Forcemain (Phase 1)	Urban and downtown	No	2029-2034	\$32.6	80%
Crystal Beach Diversion PS Upgrade and Forcemain (Phase 2)	Urban and downtown	No	2039-2044	\$31.1	80%
Woodroffe Diversion PS Upgrade and Forcemain	Urban and downtown	No	2029-2034	\$59.9	80%
Airport Parkway Diversion Sewer	Urban and downtown	No	2024-2029	\$34.7	80%
Tewin Collector Sewer	Tewin	No	2029-2034	\$205.4	100%
<b>TOTAL</b>				<b>\$798M</b>	

## Water Purification and Wastewater Treatment Master Plans (Treatment) – Capital Program

Project Name	Timing	Total Capital Cost Estimate	Per cent Growth Funded
<b>Water Purification Plants</b>			
Lemieux Winter Capacity Upgrade	2029-2034	\$35.3M	75
<b>Wastewater Treatment Plant (ROPEC) *</b>			
Raw Wastewater Pumping – SOT Pumping Expansion	2024-2029	\$43.7M	100
Raw Wastewater Pumping – OCCPS Expansion	2024-2029	\$45.6M	100
Screening and Degritting Facility Expansion	2034-2039	\$2.1M	100
Secondary Treatment Expansion	2024-2029	\$7.6M	100
Disinfection Expansion	2024-2029	\$23.7M	100
Outfall Expansion	2024-2029	\$46.4M	30
Anaerobic Digestion Expansion	2024-2029	\$119.8M	100
Biosolids Dewatering and Storage Expansion	2034-2039	\$169.9M	100
<b>TOTAL</b>		<b>\$494M</b>	

\* Wastewater Treatment costs are preliminary, and subject to change prior to the finalization of the Development Charges Background Study. Post period capacity for ROPEC projects are not finalized.