APPENDIX 2

Master Plan Consultation Part 1 Appendices 2.1 to 2.4



APPENDIX 2.1 Stakeholder Directory



STAKEHOLDER REGISTER													
	Oxford County 2024 Water and Wastewater Master Plan	-	BEGIN DATE	22-Feb-22	VERSION NUMBER	1		I	1	1	1	I	
STAKEHOLDER	TITLE/ ROLE	Contact Name	Address	Email	Phone		Notes	Notice of Study (date sent)	Notice of PCC	Notice of PCC 2	Follow-up	Comments Received	Response from
CLIENT POINT OF CONTACT	Oxford County Don Ford		END DATE DURATION		DATE PREPARED AUTHOR	_							26-Sep-23 S.Chams / T. Doucette
POINT OF CONTACT PROJECT DESCRIPTION	Water and Wastewater Master Plan servicing strategies to meet growth projection	dford/Rexfordcounty.ca	DURATION		AUTHOR	1							S.Chams / T. Doucette
	for the next 20 years. Identify options for optimizing the effectiveness of the existin water and wastewater infrastructure and complete all necessary public consultation	19 n.											
STAKEHOLDER	TITLE/ ROLE	Contact Name	Address	Email	Phone		Notes	Notice of Study (date sent)	Notice of PCC	Notice of PCC 2	Follow-up	Comments Received	Response from Co
TECHNICAL AGENGIES Provincial Ministries, Agencies & Dept Ministry of the Environment, Conservation and Park	2	Southwest Region	733 Exeter Road, London, ON N6E 1L3	eanotification.swregion@ontario.ca	1-800-265-7672			14-Mar-22	13-Sep-22	08-Jun-23			
(MECP) Ministry of the Environment, Conservation and Park (MECP)	s) Parlamentary Assistant to the Minister of Natural Resources and Forestry	General (Notices) Mike Harris	For Notice of Completion Only Whitney Block 6th Fir Rm 6630, 99 Wellesley St W,	MEA Notices EAAB@ontario.ca	519-669-2090	Issued for NOC only		14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Ministry or Natural Resources and Forestry (MINRF	Water Inspector, Water Compliance	Mark Smith	Toronto, ON M7A 1W3	Smith, Mark (MECP)	519-669-2090			14-Mat-22	13-Sep-22 13-Sep-22	08-Jun-23			
MECP	Water Inspector, Water Compliance	Stephen Dunn		< <u>Aark Smith Bontario.ca</u> Stephen Durn Bontario.ca					13-Sep-22	08-Jun-23		(14Apr22) Steve emailed Samya asking to be put on list along with Angela Stroyberg and Mark Smith	1
Ministry of the Environment, Conservation and Park (MECP) MECP Ministry of the Environment, Conservation and Park		Angela Stroyberg Jim Miler Mark Badali	733 Exeter Road, London, ON N6E 1L3	angela.stroyberg@ontario.ca Jm.W.Miler@ontario.ca	519-317-8084			14-Mar-22 28-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Ministry of the Environment, Conservation and Park (MECP) Ministry of the Environment, Conservation and Park		Mark Badali Rob Wrigley	135 St. Clair Avenue West, 7th Floor, Toronto ON M4V 1P5 733 Exeter Road, London, ON N6E 1L3	Mark.Badali 1 Rontario.ca rob.wrigley:Bontario.ca	905-521-7864 519-280-3077	Letter sent separately		14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(25-Mar-22) Mark emailed Samya and asked to remove Trevor Bell from circulation list (April-22) Mark emailed with letter and succortino documents	4-
(MECP) Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Team Lead(A), Heritage Heritage Planning Unit	Karla Barboza	Ministry of Tourism, Culture and Sport 401 Bay Street, Suite 1700	karla barbozaRontario ca	416-314 7120			14-Mar-22	13-Sep-22	08-Jun-23			
Ministry of Heritage, Sport, Tourism, Culture Industries (MHSTCI)	Programs and Services Branch Heritage Planner (Culture Services Unit) Heritage Planner (Culture Services Unit)	Dan Minkin	Toronto ON M7A 0A7 Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7 Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	Dan.Minkin@ontario.ca	416-314-7147			14-Mar-22	13-Sep-22	08-Jun-23			
Ministry of Heritage, Sport, Tourism, Culture- Industries (MHSTCI) Ministry of Heritage, Sport, Tourism and Culture	Heritage Planner (Culture Services Unit) Heritage Planner (Heritage Planning Unit)	Roci Zirger Joseph Harvey	Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7 Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	Joseph Harvey Rontario.ca	416-314-7159 613.242.3743	Remove from list no longer with N	TCS	14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(21-Mar-22). Joseph emailed letter requiring response. (14-Sept-23). Joseph Email, see	
Industries Ministry of Indigenous Affairs Environmental Assessment and Permissions Branci	Manager, Ministry Partnerships Unit b Director	Lise Chabot	Suite 400, 160 Bloor St. E, Toronto, ON M7A 2E6 135 St. Clair Avenue West, 1st Floor, Toronto ON	ise.Chabot@ontario.ca	647-532-0761			14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(21-Mar-22) Joseph emailed letter requiring response. (14-Sept-23) Joseph Email, see information in Appendix 2.7.	
Ministry of Health and Long-Term Gare	Manger	dosie Addesi	M4V 1P5 5775 Yonge Street - 16th Floor Toronto ON M7A 255 Ganada	onis addesi il ontario ca				14-Mar-22	13-Sep-22	08-Jun-23		June 13, 2023 - Josie asked to be removed off mailing list	
Federal Ministries, Agencies and Departments Crown-Indigenous Relations and Northern Affairs Canada		General Contact		aadno infopubs aando Ricanada.ca				14-Mar-22	13-Sep-22	08-Jun-23			
Environment and Climate Change Canada	Manager, Environmental Assessment Section	Julia Kilpatrick	200, boul. Sacré-Coeur, 2nd Floor Gatineau, Quebec K1A 0H3 Canada	ulia.kilpatrick@canada.ca	819-938-9436	NOS #1 Undeliverable		14-Mar-22	13-Sep-22	08-Jun-23			
County of Oxford County of Oxford	Chief Administrative Officer	Michael Duben	21 Reeve Street, Woodstock, Ontario	mduben/@confordcounty.ca	519-539-9800 3000			14-Mar-22	13-Sep-22	08-Jun-23			
County of Oxford County of Oxford	Director of Public Works Manager of Engineering Services	David Simpson Melissa Abercrombie	21 Reeve Street, Woodstock, Ontario 21 Reeve Street, Woodstock, Ontario	dsimpson Roxfordcounty.ca mabercrombie Boxfordcounty.ca	519-539-9800 3100 519-539-9800 3131			14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
County of Oxford County of Oxford	Manager of Water and Wastewater Services	Don Ford Dustin Robson	21 Reeve Street, Woodstock, Ontario	diord@confordcounty.ca drobson@confordcounty.ca	519-539-9800 3116			14-Mar-22	13-Sep-22	08-Jun-23 08-Jun-23			
County of Oxford County of Oxford	Director of Community Planning	Antoine Lahaie Gordon Hough	21 Reeve Street, Woodstock, Ontario	Antoine.Lahaie@wsp.com	519-539-9800 3207			14-Mar-22	13-Sep-22	08-Jun-23 08-Jun-23			
InTAC			Public Works	farore Boyfordoumby ca	513-535-9800 3207			14-Mar-22	13-Sep-22	08-Jun-23			
Transportation and Waste Management Services Information Services Water and Wastewater Services	Manager of Transportation and Waste Management Services Manager of Information Services Manager of Water/Wastewater Services	Frank Gross Matt Cowan Don Ford	Corporate Services Public Works	mcowan@axfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Finance Water and Wastewater Services	Manager of Capital Planning Supervisor of Wastewater Operations	Jennifer Lavallee Jason Kreitzer	Corporate Services Public Works	lavallee Roxfordcounty.ca kreitzer Roxfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Water and Wastewater Services	Supervisor of Water Operations	Paul Eybergen	Public Works	peybergen Soxfordcounty.ca				14-Mar-22	13-Sep-22	08-Jun-23			
Water and Wastewater Services Public Works	Supervisor of Water Operations Director of Public Works	Rob Osmond David Simpson	Public Works Public Works	tosmondi@oxfordcounty.ca dsimpson@oxfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Engineering Services Engineering Services	Project Engineer Supervisor of Engineering Services	Ryan Vink Reuben Davis	Public Works Public Works	rvink@oxfordcounty.ca rdavis@oxfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Community Planning Water and Wastewater Services	Manager of Planning Policy Coordinator of Water and Wastewater Programs	Paul Michiels Mackenzie Schultz	Community Planning Public Works	preichiels Roxfordcounty.ca mschultz Roxfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Water and Wastewater Services	Water and Wastewater Technical Supervisor Technical Planner, Community Planning	Travis Pawlick Holly McClure	Public Works Community Planning	tpawlick @ oxfordcounty.ca hmcclure @ oxfordcounty.ca				14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Engineering Services	Manager of Engineering Services	Melissa Abercrombie	Public Works	mabercromble R oxfordcounty.ca				14-Mar-22	13-Sep-22	08-Jun-23			
Engineering Services Engineering Services	Manager of Engineering Services Development Review Engineer	Melissa Abercrombie Greg Simon	Public Works Public Works	mabercrombie Boxfordcounty.ca gsimon Boxfordcounty.ca	519-539-9800 ext 3117			14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Engineering Services	Manager of Engineering Services	Melissa Abercrombie	Public Works	maherrombie Rodordounty.ca. grimon@oxfordcounty.ca allain@thamesriver.on.ca annell&thamesriver.on.ca	519-539-9800 ext 3117 519-451-2800 ext. 223			14-Mar-22	13-Sep-22	08-Jun-23			Responded to Email from Ben Dafce, Land Regu
Engineering Services Engineering Services EXTAC Upper Thames River Conservation Authority	Manager of Engineering Services Development Reveel Engineer Manager, Enknommental Parning and Regulations General Manager Sectory Treasurer Source Protection Coordinator	Melissa Abercrombie Greg Simon Jenna Allain	Public Works Public Works 1424 Clarke Road, London, ON N5V 589	mabercromble & oxfordcounty.ca gsimon & oxfordcounty.ca allain(@shamesriver.on.ca				14-Mar-22 14-Mar-22 14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22 13-Sep-22 13-Sep-22 13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23 08-Jun-23 08-Jun-23 08-Jun-23			
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STAKEHOLDER REGISTER		1		4	-		1	1				
PROJECT NAME STAKEHOLDER	Öxford County 2024 Water and Wastewater Master Plan TITLE/ ROLE	Contact Name	BEGIN DATE Address	22-Feb-22 Email	VERSION NUMBER Phone	Notes	Notice of Study (date sent)	Notice of PCC	Notice of PCC 2	Follow-up	Comments Received	Response from RV
CLIENT	Oxford County		END DATE DURATION		DATE PREPARED							26-Sep-23
CLIENT PONT OF CONTACT PROJECT DESCRIPTION	Oxford County Don Ford Water and Wastewater Master Plan servicing strategies to meet growth projections	dford Rexfordcounty.ca	DURATION		DATE PREPARED AUTHOR	_		1	1			26-Sep-23 S.Chams / T. Doucette
	for the next 20 years. Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure and complete all necessary public consultation.											
STAKEHOLDER	TITLE/ ROLE	Contact Name	Address	Email	Phone	Notes	Notice of Study (date sent)	Notice of PCC	Notice of PCC 2	Follow-up	Comments Received	Response from Count
Middlesex County Perth County Brant County	County Clerk Chief Administrative Officer Director of Communications and Public Relations	Marci Ivanic Lori Wolfe Melissa Connor	399 Ridout Street North London: Ontario N6A 2P1 1 Huron Street, Stratford, ON N5A 5S4 31 Mechanic St, Suite 207, Paris, Ontario N3L 1K1	mivanic@middlesex.ca cao@perthcounty.ca	519-434-7321 x2250 519-271-0531 x 120 519-442-6324 x 2208		14-Mar-22 15-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23 08-Jun-23			
Norfolk County	Secretary-	Jit Binkley	County Administration Building 50 Colhome St. S.	Melssa.comor@brant.ca. itbinkley@norfokcounty.ca	519-426-5970 × 1226		14-Mar-22	13-Sep-22	08-Jun-23			
Norfolk County Elgin County	Chief Administrative Officer Chief Administrative Officer	Al Menses Julie Gonyou	Simore, ON N3Y 4H3 County Administration Building, 50 Colborne St., S., Simore, ON N3Y 4H3 450 Sunset Drive St. Thomas, Ontario N5R 5V1	al meneses @norfokcounty.ca cao@elgin.ca	519-426-58710 x 1225	Replacing Jil above	14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(15-Mar-22) Al replied indicating that our email was forwarded to specific staff within Norfolk	
Bayham	Deputy Clerk/ Planning Coordinator	Margaret Underhill	56169 Heritage Line, PO Box 160 Straffordville, ON				14-Mar-22	13-Sep-22	08-Jun-23			
Thames Centre	Chief Administrative Officer	Stewart Findlater	NUJ 1Y0 4305 Hamilton Rd Dorchester, ON, Canada, NOL 1G3	sfindlater R thamescentre.on.ca	519-268-7334 ext. 226	PPC#1 Undeliverable	14-Mar-22	13-Sep-22	08-Jun-23			
Perth East	Executive Assistant to CAO	Kayla Johnson	25 Mil Street East Milverton, Ontario NOK 1M0	kjohnson Bpertheast.ca	519-595-2800 x236			13-Sep-22	08-Jun-23			
Wilmont Perth South	Communications Specialist CAO/ Treasurer/ Deputy Clerk	Kelly Baird Rebecca Clothier	60 Snyder's Road West Baden, Ontario N3A 1A1 Township of Perth South 3191 Rd 122 St. Pauls ON N0K 1V0	kelly baird @wilmot.ca rolothier & perthsouth.ca	519-634-8519 ext. 229 519-271-0619 Ext 227		14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Elected Officials Ontario Government	MPP - Oxford	Ernie Hardeman	12 Perry St	Hardeman Rexeculink.com	519-537-5222		14-Mar-22	13-Sep-22	08-Jun-23			
Federal Government	MP - Öxford	Dave Mackenzie	Woodstock, ON N4S 3C2 208 Huron Street Suite 4	dave.mackenzie@parl.gc.ca	519-421-7214		14-Mar-22	13-Sep-22	08-Jun-23			
Township of Norwich (& Oxford County)	Mayor (Warden)	Larry Martin	Woodstock_Costnin 425296 Substation Road Burgessulle on NOJ1C0	martin@norwich.ca	(519) 424-2188		14-Mar-22	13-Sep-22	08-Jun-23			
Township of Norwich	Ward 3 Councillor	Jim Palmer	RR #3 Norwich On	palmer@norwich.ca	(519) 468-6215		14-Mar-22	13-Sep-22	08-Jun-23			
Township of Norwich	Ward 2 Councillor	Lynne DePlancke	NOJ 1P0 46 River Oaks Drive Otterville On	scholten@norwich.ca	(226) 321-0576		14-Mar-22	13-Sep-22	08-Jun-23			
Lossi Agencies Southwestern Public Health Unit	Program Manager, Environmental Health	Amy Pavletic	1230 Tabot Street, St. Thomas, ON N5P 1G9	apavletic R swoublichealth ca	519-631-9900 x 1308		14-Mar-22	13-Sep-22	08-Jun-23			
Indigenous Groups		-										
Aamjwnaang First Nation Aamjwnaang First Nation	Chief Environment Coordinator	Chris Plain Sharilyn Johnston	978 Tashmoo Avenue Samia, ON N7T 7H5 978 Tashmoo Avenue	chief plain Biaamiwnaang.ca	519-336-8410	14-March-22 - Letter sent re: NOC	14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Bkejwanong Territory (Walpole Island)	Chief	Chief Charles Sampson	Samia, ON N7T 7H5 R.R. #3	Charles.samoson Rwifn.org		14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
			117 Tahgahoning Road Walpole Island, ON NR4.4K9									
Bkejwanong Territory (Walpole Island)	Project Review Coordinator	Janet Macbeth	R.R. #3 117 Tahgahoning Road Walpole Island, ON	Janet macbeth Rwifn.org			14-Mar-22	13-Sep-22	08-Jun-23			
Bkejwanong Territory (Walpole Island)	Consultation Manager	Dean Jacobs	R.R. #3 117 Tahnahoning Road	dean.jacobs@wifn.org			14-Mar-22	13-Sep-22	08-Jun-23			
Caldwell First Nation	Acting Chief	Acting Chief Robin Perkins	Walpole Island, ON 14 Orange Street Learnington, ON	chiel @caldwellirstnation.ca		NOS #1 Undeliverable f/u with Nikki 14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
Caldwell First Nation	Director of Operations	Nikki van Oirschot	N8H 1P5 14 Orange Street Learnington, ON	nikki@caldwelfirstnation.ca			14-Mar-22	13-Sep-22	08-Jun-23			
Caldwell First Nation	Consultation Coordinator	Brianna Sands	N8H 1P5 14 Orange Street Learnington, ON Net JPr.	consultation coordinator R caldwelfirstnation.ca	6		14-Mar-22	13-Sep-22	08-Jun-23			
Kettle and Stony Point First Nation	Chief	Chief Jason Henry	6247 Indian Lane Kettle and Stony Point FN, ON NON 1J1	ason.henry@kettlepoint.org		14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23		(2022-Sept 30) Emily Ferguson emailed that CKSPFN has no comments at this time	
Kettle and Stony Point First Nation	Consultation officer	Valerie George	6247 Indian Lane Kettle and Stony Point FN, ON NON 1J1	valerie.george@kettlepoint.org			14-Mar-22	13-Sep-22	08-Jun-23			
Chippewas of the Thames First Nation	Chief	Chief Jacqueline French	R.R. #1 289 Jubilee Road Muncey, ON NOL 1Y0	https://nationsconnect.ca/		NOS#1 all through NationsConnect; submitted through Nations Connect 14- March 22- Letter sent re: NOC	15-Mar-22	13-Sep-22	08-Jun-23			
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Chippewa of the Thames First Nation	Consultation Coordinator - Lands & Environment	Fallon Burch	320 Chippewa Road, Muncey, ON NOL 1Y0	https://nationsconnect.ca/	519-209-5555 ext. 251	NOS#1 all through NationsConnect; submitted through Nations Connect	15-Mar-22	13-Sep-22	08-Jun-23		(24-Mar-22) Letter received from Fallon re: moderate level of concern- remain on mailing	(21-March-22) Tisha replied confirming that our notice
											Is twith updates (4-May-22) Tisha emailed Fallon correspondence and sent email via Nations Connect (3-Oet-22) Received response via Nations connect indicating no questions or concerns	
Chippewa of the Thames First Nation			320 Chippewa Road, Muncey, ON NOL 1Y0	https://nationsconnect.ca/		NOS#1 all through NationsConnect; submitted through Nations Connect	15-Mar-22	13-Sep-22	08-Jun-23		at this time and to clease stay updated as more info becomes available	
Munsee-Delaware Nation	Chief	Chief Roger Thomas	R.R. #1 289 Jubilee Road	chiel@munsee.ca	519-289-5396	14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23		(2022-June-9) Stacey responded confirming receipt of email and providing update to new Chief as Roger Thomas	
Munsee-Delaware Nation	Executive Assistant	Carol Antone	Muncey, ON NOL 1Y0 R.R. #1 289 Jubilee Road	carol@munsee.ca			14-Mar-22	13-Sep-22	08-Jun-23			
Munsee-Delaware Nation	Consultation Coordinator	Stacey Phillips	Muncey, ON NOL 1Y0 R.R. #1 289 Jubilee Road	consultation@munsee.ca			14-Mar-22	13-Sep-22	08-Jun-23			
Delaware Nation at Moraviantown	Chief	Chief Denise Stonefish	Muncey, ON NOL 1Y0 14760 School House Line RR3 Thamesville ON NOP 2K0	denise.stonefishRdelawarenation.on.ca	519-692-3936		14-Mar-22	13-Sep-22	08-Jun-23			
Oneida of the Thames First Nation	Chief	Chief Adrian Chrisjohn	2212 Elm Avenue Southwold, ON	adrian.chrisjohnRoneida.on.ca	519-652-6922	14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
Oneida of the Thames First Nation	Environment and Consultation Coordinator	Brandon Doxtator	NOL 2G0 2212 Elm Avenue Southwold, ON	environment Roneida.on.ca	519-652-6922		14-Mar-22	13-Sep-22	08-Jun-23			
Mississaugas of the New Credit First Nation	Consultation Manager	Mark LaForme	N0L 2G0 Mississauga of the New Credit First Nation 2789 Mississauga Road R.R. #6	Mark LaForme @mncfn.ca; Abby LaForme @mncfn.ca	(905)768-1133	14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23		(2022-9-14) Abby emailed indicating that MFCN DOCA has no comments regarding project at this time.	
Mississaugas of the New Credit First Nation	Department of Consultation & Accommodation	Fawn Sault	Hagersville, Ontario NOA 1H0	DOCA.Admin@mncfn.ca		14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
Mississaugas of the New Credit First Nation	Archaeological Operations Supervisor	Megan DeVries	4065 Highway 6 North, Hagersville, ON N0A 1H0	Megan.DeVries@mncfn.ca	P: 905-768-4260 M:	14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
	Department of Consultation and Accommodation (DOCA)				289-527-2763							
Six Nations of the Grand River	Lands & Resource Director	Lonny Bomberry	Six Nations of the Grand River Consultation and Accommodations Team	lonnybomberry@sixnations.ca		Relationship Building Meeting - June 2, 2022	14-Mar-22	13-Sep-22	08-Jun-23			
Six Nations of the Grand River	Land Use Office, Lands and Research	Robbin Vanstone	2498 Chiefswood R. P.O. Box 5000 Ohsweken, ON N0A 1M0 Six Nations of the Grand River	rino@simations.ca		Relationship Building Meeting , June 2, 2022 14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
			Consultation and Accommodations Team 2498 Chiefswood Rd. P.O. Box 5000 Ohsweken, ON N0A 1M0									
Six Nations of the Grand River	Archaelogy Coordinator	Tanya Hil-Mountour	Six Nations of the Grand River Consultation and Accommodations Team 2498 Chiefswood Rd. P.O. Box 5000	tanyahil-montour@sixnations.ca	+	Relationship Building Meeting - June 2,2022 14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23		(15-March-22) Tanya replied indicated interest and asking for Archaeological Management Plan (24-Mar-22) Tanya replied thanking John and looking forward to	(18-Mar-22) John T. repled on to Tanya - PCC sched
Haudenosaunee Confederacy Chiefs Council			Ohsweken, ON N0A 1M0	dawnrussell@sixnations.ca							Wanagement Pan (24-Mar-22) anya replied marking John and looking torward to relationship building meeting (27-Apr-22) Dawn emailed with some dates for the relationship building meeting	broad assessment, ONHSS (background info) (29-Ma regarding our plan to have a relationship building meet replied and confirmed June 2 at 2pm (02-June-22) Tr
Haudenosaunee Conrederacy Chiefs Council			Haudenosaunee Development Institute 16 Sunrise Court – Suite 600 P.O. Box 714	info Rhdi land.	519-445-4222	14- March 22- Letter sent re: NOC	14-Mar-22	13-Sep-22	08-Jun-23			
UNIRICE Bell Canada			Ohsweken, Ontario N0A 1M0									
Bell Canada Hydro One Networks	GT Fiber Services Inc. Seconary Land Use	Diego Tobias General Email	5025 Creekbank Road Mississauga, ON L4W 0B6 483 Bay Street, North Tower, 15th Floor	PUCC.circulations.GT@bell.ca secondarylanduse@hydroone.com	905-614-6820 416-345-5866		14-Mar-22 15-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(17-Mar-22) Letter received - has existing high voltage transmission in facilities which	
Rogers Communications	Rogers Municpal Operations Centre	Markup Requests	Torocto, ON 800 York Street LONDON ON NSW 259 500 Concurrence Road	Rogers MOC @telecon.ca			14-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(15-Mar-22) Amy Brenham emailed oc'ing Rob as the correct contact	
Enbridge Gas Distribution Incorporated	Advisor, Construction Project Manager	Rob Elliot	North York, Ontario Canada M2J 1P8 500 Consumers Road	Rob.ElicttRenbridge.com		Replacing Markups above	14-Mar-22	13-Sep-22	08-Jun-23			
			North York, Ontario Canada M2J 1P8			rvepeering intel Klipte stative						
EXECULINK TELECOM	Operations Supervisor	Jeff Soetemans	1127 Ridgeway Rd. P.O. Box 33 Woodstock, ON N4V 1E3 86 Healey Road, Bolton ON L7E 5A7	off soetemans Rexeculink.com	519-456-1094		15-Mar-22	13-Sep-22	08-Jun-23			
TransCanada Pipelines Inc. Erth Power	Project & Planning Coordinator Director of Engineering & Operations	Darlene Quilty Josh Smith	86 Healey Road, Bolton ON L7E 5A7 143 Bell Street, PO Box 157, Ingersoll, ON, N5C 3K5	dquilty@mhbcplan.com 5 osh.smith@erthpower.com	705-727-0663 x21 519-485-1820 ext. 220		15-Mar-22 14-Mar-22	13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23			
Erth Thames Hydro	Director of Regulatory, Finance & Customer Relations	Graig Pettit	P.O. Box 157 143 Bell Street	oeb@eriethamespower.com	(519) 485-1820		15-Mar-22	13-Sep-22	08-Jun-23			
Tillsonburg Hydro	General Manger	lan McKenzie	Ingersoll, Ontario NSC 3K5 Tillsonburg Customer Service Centre	imokenzie @ tilsonburg.ca	519-688-3009 ext 490	0 PPC#1 Undeliverable	15-Mar-22	13-Sep-22	08-Jun-23			
			10 Lisgar Ave Tillsonburg ON N4G 5A5									
Woodslock Hydro RELEVANT INTEREST GROUPS/OTHE	President & CEO R	Ross McMillion		Reset/ich/#weedsteckhydre.com	519-537-7172 ext. 230	NOS #1: Undeliverable and removed	14-Mar-22		08-Jun-23			
Resident Resident								13-Sep-22 13-Sep-22	08-Jun-23 08-Jun-23		(07-Apr-22) called Travis inquiring about Beachville water system, looking for water demoid and canica area information	(07-Apr-22) Travis replied about upcoming PCC and fi theough planeing for formal applications
Resident								13-Sep-22	08-Jun-23			
							1	1			I	

se from RVA	
rom County/RVA	
at our notice was sent via Nations Connect	
PCC scheduled in next few months, MP is info) (29-March-22) Tisha replied to Tanya ulding meeting in June (29-Aprl-22) Samya June-22) Travis. Tisha and John met with th	1
June-22) Travis. Tisha and John met with th	10
	_
g PCC and further discussion should occur	

STAKEHOLDER REGISTER										
										1
PROJECT NAME STAKEHOLDER	Oxford County 2024 Water and Wastewater Master Plan TITLE/ ROLE	Contact Name	BEGIN DATE	22-Feb-22	VERSION NUMBER	Notor	Notice of Study (date Notice of PCC	Notice of PCC 2 Follow-up	Comments Received	Response from RV.
STAREHOLDER	III LE ROLE	Contact Marine			11010	1015	sent)			
CLIENT	Oxford County Don Ford		END DATE DURATION		DATE PREPARED AUTHOR					26-Sep-23 S.Chams / T. Doucette
POINT OF CONTACT	Don Ford	dford Roxfordcounty.ca	DURATION		AUTHOR					S.Chams / T. Doucette
PROJECT DESCRIPTION	Water and Wastewater Master Plan servicing strategies to meet growth projections for the next 20 years. Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure and complete all necessary public consultation.									
STAKEHOLDER	TITLE/ ROLE	Contact Name	Address	Email	Phone	Notes	Notice of Study (date Notice of PCC sent)	Notice of PCC 2 Follow-up	Comments Received	Response from County
	MTE Consultants			SPeterson Binte85.com			13-Sep-22	08-Jun-23		
	MTE Consultants			begum@mte85.com			13-Sep-22	08-Jun-23		
	SCS Consulting Group Ltd.	Phil Sheridan		psheridan@scsconsultinggroup.com			13-Sep-22	08-Jun-23		
-	G. Douglas Vallee Limited	Eldon Darbyson		eldondarbyson@odvallee.ca			13-Sep-22	08-Jun-23		
Realtor	Re/Max Realty Services Inc	Lally Thapar		thapartally@gmail.com	647-949-4545		13-Sep-22	08-Jun-23		
Associate Vice President- Broker	D. W. Gould Realty Advisors Inc., Brokerage	Eny Lopez Morales		enyledia.lopez@dwgra.com	905-828-2000		13-Sep-22	08-Jun-23		
Environmental Planner	AECOM	Paul Adams		Paul adams2@aecom.com			13-Sep-22	08-Jun-23		
Project Engineer	AECOM	Jeffrey Kelso	+		+		13-Sep-22 13-Sep-22	08-Jun-23		
Senior Environmental Planner	AECOM	Karl Grueneis		effrey kelso @aecom.com karl.gruenels @aecom.com			13-Sep-22 13-Sep-22	08-Jun-23		
Planner	GSP Group	Amanda Stellings		aStellings Rospgroup.ca	226-243-7298		13-Sep-22	08-Jun-23		
Senior Associate	Walterfedy	Dan Ferguson		dlerguson@walterfedy.com	519-496-1932		13-Sep-22	08-Jun-23		
Project Manager	CJDL Consulting Engineers	Andrew and Deb Gilvesy		agivesy Reidleng.com			13-Sep-22	08-Jun-23	(6-Sept-23) Recievied email per information in Appendix 2.7	
Project Manager	CJDL Consulting Engineers	Alexander Muirhead		amuirhead@cidleng.com			13-Sep-22	08-Jun-23		
	Slowes	Shawn Lowes		Shawn_lowes@hotmail.com				08-Jun-23		
	Yeddie			migeddie223@gmail.com				08-Jun-23		
								08-Jun-23		
	WSP	Marisa Williams		Marisa.Williams@wsp.com				08-Jun-23		
	GSP Group	Brandon Flewwelling		brandonf Bigspgroup ca				08-Jun-23		
Engineering Services	Cyril J. Demeyere Ltd.	Cameron Cluett		ccluet Bickleng.com				08-Jun-23		
Resident				dbrolese @ LIVE.CA				08-Jun-23		
Manager, Engineering	Sifton Properties Limited	Justin Diotte		ustin.dotte@silton.com	519-852-9466			08-Jun-23		
Real Estate Agent	OntarioWide Real Estate Brokerage			aserwaczek@continuum.org	519-781-0000			08-Jun-23		
Real Estate Analyst	Hayhoe Homes (Performance Communities Inc.)	Alex Serwaczek		David Looby Rhavhoehomes.com	519 -471- 1466			08-Jun-23	June 20, 2023 - Emailed Mackenzie and asked to be added to Mailing List	
	Hayhoe Homes (Performance Communities Inc.)	David Looby		David Looby Ehayhoehomes.com	519 -471 - 1466			08-Jun-23	June 20, 2023 - Emailed Mackenzie and asked to be added to Mailing List	
PPC 2 Attendee										
TPC 2 Attendee									Pione calls on June 12 and June 20, 2023	June 12, 2023 Phone Call with John Tyrrel T received a phone call from had reviewed the 2022 PCC1 presentation and we from my understanding has some properly hall residential subdivision. He said that he had a meeting later the weak. I answered some general questions on water supply, we water supply is water supply is cometry of the said that he had a meeting later bit weak. The same that the said that he had a meeting later the weak. I answered some general questions on water supply, we water supply is cometry operatively listely with the weak head that June 29, 2023 Phone Call with John Tyrrel I received a volcential message on June 29, 2023 throw Received a volcential message on June 29, 2023 throw Said Said Said Said Said Said Said Said
PPC 2 Attendee										
PPC 2 Attendee										
PPC 2 Attendee								1		
PPC 2 Attendee					1			1 1		
PPC 2 Attendee										
PPC 2 Attendee					1		1	1 1		1
PPC 2 Attendee							1	1		July 4, 2023 - I have had a follow up email from
PCC 2 Attendee										looking to further discuss the lands that they have
	4 10									
Resident	Land Owner	Dave Piggot				Phone call 12-Jun-23			(12-UM+23) Resident has some property that he would like to develop into a residential subdivision in Bright, RVA anreved some general questions on waters supply. Teatimers, and storage but did state that PCC 2 is expected in the next month and at that point there would be information on the water supply in Bright are wall as Blandrodt Blanheim Townthp. Resident name left in nemal as resident is named in Two of Blandlord-Blanheim Superstrip. 2. Second and the supply of the superstrip. Second 2. Sec	
Resident from Tillsonburg.	Property Owner		·	·		Email June 25, 2023		1 1	August 2, 203 meeting. Resolution 7 as shown in Accendix 2.7. (25-JUN-23) Resident concerned over price for water in Tillsonburg as well as	Referred to PCC#2 for additional details.
L								1 1	restrictions on use for grass watering during the summer.	1

am RVA
County/RVA
-
-
at about 1 PM.
ind was interested in the water servicing
v that he would like to develop into a
y that he would like to develop into a seting scheduled with County Planning
song scheduled was coully Planning
and a decoder and a large set of the set
pply, treatment, and storage but I did state at point there would be information on the
Terrentia
Township.
something provided by planning and not itewater master plan.:
tewater master plan.:
23 from regarding PPC 2.
agair They are
agair They are

APPENDIX 2 Consultation Summary Part 2



APPENDIX 2.2 Public Notices



APPENDIX 2.2.1 Commencement Notice





Notice of Study Commencement Oxford County Water and Wastewater Master Plan

Oxford County has initiated the development of a Water and Wastewater Master Plan (W/WW MP) to provide the County with strategic long-term water and wastewater servicing strategies to support existing servicing needs and accommodate further projected population and employment growth to the year 2046.

What is the Water and Wastewater Master Plan?

The W/WW MP is a long-term strategic planning document that lays out the County's vision and goals for its water and wastewater systems to 2046. The W/WW MP will:

- Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046;
- Develop water and wastewater strategies that are consistent with and conform to Provincial policies/ legislation and support the County's Official Plan and strategic initiatives;
- Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure;
- Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability.

R.V. Anderson Associates Limited has been retained by Oxford County to complete the W/WW MP.

The W/WW MP is being conducted in accordance with the Master Plan requirements of Phases 1 and 2 of the *Municipal Class Environmental Assessment* (2000, as amended in 2007, 2011 & 2015), approved under the *Ontario Environmental Assessment Act.*

We want to hear from you

As the Project Team reviews and updates the W/WW MP, it is important to engage with the public to identify the community's servicing needs and priorities. Members of the public are invited and encouraged to comment on the project at any time during the Study. Those interested in this study are invited to participate by:

- Visiting the study website at www.speakup.oxfordcounty.ca/wwwmp
- Subscribing to the study mailing list to receive notices of future consultation opportunities. To be added to the mailing list, contact one of the key contacts below.
- Attending future Public Consultation Centres (PCC). PCCs will be held at various locations around the County. More details about the PCCs will be provided as they become available
- Providing your comments through the study website on Speak Up, Oxford! at www.speakup.oxfordcounty.ca/wwwmp, or submit to the key study contacts listed below.

A draft W/WW MP Study Report will be prepared and made available for public review and comment prior to its finalization.

Contacts for information

Travis Pawlick, P.Eng. Supervisor, Water and Wastewater Oxford County 519-539-9800 x3111 | tpawlick@oxfordcounty.ca

John Tyrrell, MSc (Eng.), P.Eng Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 | jtyrrell@rvanderson.com

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

Posted March 14, 2022



oxfordcounty.ca

APPENDIX 2.2.2 PCC 1 Notice





Notice of Public Consultation Centre #1

Oxford County Water and Wastewater Master Plan

Oxford County has initiated the development of a Water and Wastewater Master Plan (W/WW MP) to provide the County with strategic long-term water and wastewater servicing strategies that will support existing servicing needs and accommodate further projected population and employment growth to the year 2046.

About the Water and Wastewater Master Plan

The 2024 Water and Wastewater Master Plan (W/WW MP) is a long-term planning document that identifies municipal water treatment, water supply, wastewater collection and wastewater treatment strategies to meet Oxford County's growth needs and service goals in existing serviced areas. The plan will:

- Consider population trends and servicing needs across the County;
- Provide infrastructure solutions that meet the County's level of service framework and objectives; and,
- Recognize water conservation measures and wastewater treatment efficiency optimization to support the County's commitment to environmental sustainability.

R.V. Anderson Associates Limited has been retained by Oxford County to complete the W/WW MP. Key objectives of the master plan include:

- Assess the current water and wastewater systems performance and deficiencies;
- Offer solutions that evaluate full lifecycle costs to understand overall financial implications and sustainability; and,
- Develop a system plan, which will ensure reliability, redundancy, and security of water resources for existing and future consumers through to the year 2046.

The W/WW MP is being conducted in accordance with the Master Plan requirements of Phases 1 and 2 of the *Municipal Class Environmental Assessment* (2000, as amended in 2007, 2011 & 2015), approved under the *Ontario Environmental Assessment Act.*

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

We want to hear from you

Public and technical agency consultation will be fundamental in developing the Master Plan, and members of the public are invited and encouraged to comment on the project at any time during the Study.

The Project Team is hosting the study's first Public Consultation Centre (PCC) to introduce the 2024 Water and Wastewater Master Plan. This will be a virtual (online) event held:

Thursday, September 29, 2022 5:00 PM – 7:00 PM Log-in details at www.oxfordcounty.ca/wwwmp

Representatives from the County and its consultants will be available at the PCC to answer questions and discuss the next steps in the study.

In addition to PCC #1, the Project Team is attending local events to engage directly with members of the community. Pop-up events are planned for:

Wednesday, September 14: Canada's Outdoor Farm Show in Woodstock

Friday, September 23: Ribfest in Tillsonburg.

Events will be advertised via social media, *Speak Up Oxford!*, and local media prior to the event.

The comment period for the W/WW MP PCC#1 closes on Wednesday, October 19, 2022.

Contacts for information

Travis Pawlick, P.Eng. Supervisor, Water and Wastewater Oxford County 1-800-755-0394 x3111 | tpawlick@oxfordcounty.ca

John Tyrrell, MSc (Eng.), P.Eng Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 | jtyrrell@rvanderson.com

Posted September 9, 2022



oxfordcounty.ca

APPENDIX 2.3.3 PCC 2 Notice





Notice of Public Consultation Centre #2

Oxford County Water and Wastewater Master Plan

Oxford County has initiated the development of a Water and Wastewater Master Plan (W/WW MP) to provide the County with strategic long-term water and wastewater servicing strategies that will support existing servicing needs and accommodate further projected population and employment growth to the year 2046.

About the Water and Wastewater Master Plan

The 2024 Water and Wastewater Master Plan (W/WW MP) is a long-term planning document that identifies municipal water treatment, water supply, wastewater collection and wastewater treatment strategies to meet Oxford County's growth needs and service goals in existing serviced areas. The plan will:

- Consider population trends and servicing needs across the County;
- Provide sustainable infrastructure solutions that are consistent with and conform to Provincial policies, legislation and support the County's Official Plan and strategic initiatives;
- Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure.

R.V. Anderson Associates Limited has been retained by Oxford County to complete the W/WW MP. Key objectives of the master plan include:

- Assess the current water and wastewater systems performance and deficiencies;
- Offer solutions that evaluate full lifecycle costs to understand overall financial implications and sustainability; and,
- Develop a system plan, which will ensure reliability, redundancy, and security of water resources for existing and future consumers through to the year 2046.

The W/WW MP is being conducted in accordance with the Master Plan requirements of Phases 1 and 2 of the *Municipal Class Environmental Assessment* (2000, as amended in 2007, 2011 & 2015), approved under the *Ontario Environmental Assessment Act*.

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

We want to hear from you

Public and technical agency consultation will be fundamental in developing the Master Plan, and members of the public are invited and encouraged to comment on the project at any time during the Study.

The Project Team is hosting the study's second Public Consultation Centre (PCC) to review the draft recommendations of 2024 Water and Wastewater Master Plan. This will be a virtual (online) event held:

Tuesday, June 27, 2023 6:00 PM – 8:00 PM Log-in details at www.oxfordcounty.ca/wwwmp

Representatives from the County and its consultants will be available at the PCC to answer questions and discuss the next steps in the study.

The final Master Plan document will also be posted for public review following endorsement by Council.

The PCC will be advertised via social media, published on the project page *Speak Up Oxford!*. Area Municipalities and registered project followers will receive an email regarding the PCC.

Contacts for information

Don Ford, CMM III, C. Tech. Manager, Water and Wastewater Oxford County 1-800-755-0394 x3191 | dford@oxfordcounty.ca

John Tyrrell, MSc (Eng.), P.Eng Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 | jtyrrell@rvanderson.com

Posted June 9, 2023



oxfordcounty.ca

APPENDIX 2.2.4

Council Report and Resolution on 2024 Water and Wastewater Master Plan July 12, 2023





Report No: PW 2023-33 PUBLIC WORKS Council Date: July 12, 2023

To: Warden and Members of County Council

From: Director of Public Works

See amended resolution

2024 Water and Wastewater Master Plan

RECOMMENDATIONS

- 1. That County Council endorse, in principle, the draft 2024 Water and Wastewater Master Plan as the recommended servicing strategies to meet Oxford's growth needs to 2046 as well as provide effective on-going continuity to existing serviced settlement areas;
- 2. And further, that County Council direct Staff to file a Notice of Completion and commence the 45-day public review period as required under the Municipal Class Environmental Assessment (MCEA) process.

REPORT HIGHLIGHTS

- The purpose of this report is to seek County Council's endorsement, in principle, of the draft 2024 Water and Wastewater Master Plan (W/WW MP) which provides a strategic roadmap to service existing needs and accommodate future growth.
- The draft 2024 W/WW MP identifies water and wastewater infrastructure requirements to accommodate projected population and employment growth to 2046 in accordance with the 2020 Provincial Policy Statement and the County's approved Phase I Comprehensive Review (2020), while ensuring service continuity to existing serviced settlement areas. This approach strategically focuses future growth and development primarily in designated community settlement areas (i.e. existing areas that are currently fully or partially serviced).
- The draft 2024 W/WW MP is centered around several key servicing strategies to address
 risk and capacity considerations, including: optimization of existing infrastructure, new well
 supplies, water/wastewater treatment plant expansions, extensions of existing water
 distribution / wastewater collection systems, system redundancy projects, water
 conservation and sewer system inflow and infiltration reduction.
- A comprehensive public consultation and engagement campaign was undertaken throughout the Master Plan as per the MCEA process. The process involved Community Members, Area Municipalities, Review Agencies, Indigenous Communities, public interest groups, businesses and other stakeholders. Following the potential issuance of the Master Plan Study Notice of Completion, the final consultative stage will include a 45 day review opportunity for all interested parties to comment on the draft W/WW MP Study Report.



Implementation Points

Upon Council approval, staff will proceed to issue and file a Notice of Completion for the draft 2024 W/WW MP. Copies of the final draft of the Master Plan Study Report will be available upon request as well as posted to the Oxford County website and online engagement hub at *Speak Up*, Oxford!.

Following a 45 day public review period and subject to comments received, the 2024 W/WW MP Class Environmental Assessment (Class EA) Study Report can be finalized and filed.

It is recognized that the 2024 W/WW MP proceeded under Approach 1 of the MCEA process and does not address MCEA requirements for Schedule B and Schedule C projects. Class EA Studies for these applicable projects, as identified in the W/WW MP, will be carried out in greater detail in the future at which time the public, agencies, and Indigenous Communities will be provided an opportunity for ongoing review and comment on the same.

Financial Impact

There are no financial impacts to the 2023 Business Plan and Budget based on the recommendations contained within this report.

Once finalized, the 2024 W/WW MP will become an input to the County's 2024 Water and Wastewater Development Charges Technical Study which will inform the upcoming 2024 Development Charges Background Study. It is anticipated that the approved growth forecast to 2046 and associated capital implementation plan may be further refined through the ongoing 2024 Development Charges process.

Future implementation of projects identified in the 2024 W/WW MP will be considered by County Council through the annual budgeting process to which approved projects will be integrated within the County's 2022 Asset Management Plan which focuses on lifecycle needs of existing projects and incorporates the needs of growth projects identified in the Development Charges Background Study.

Increases to the level of services provided, or addition of new services, are not explicitly accounted for within the annual contribution to reserves. It is likely that additional funding and staff resourcing will be required to implement all projects identified in the W/WW MP, including the use of long-term debenture funding, increases to rates and possible prioritization of service projects over lifecycle projects to accommodate funding limitations. Staff will seek out additional funding funding opportunities wherever possible.

Communications

As noted in Report No. PW 2022-47, an extensive public consultation and engagement program was carried out during the development of the 2024 W/WW MP in order to provide meaningful opportunities for public, Indigenous Communities and stakeholder input. The feedback and input received has been summarized in the draft 2024 W/WW MP Study Report.

The community engagement around the 2024 W/WW MP was undertaken through a range of tools to seek feedback from Oxford's various communities and demographics as follows:

- **Speak Up, Oxford!** This serves as the engagement hub for consultation. It was published in March 2022, with 2300 total visits to the site since its launch.
- Feedback surveys and question form: Together, the interactive tools solicited input from 94 visitors who reviewed information or participated in feedback forms (surveys) and/or a questions tool. There were also 583 downloads of documents (public notices, Public Consultation Centre presentations).
- **Public Consultation Centre (PCC) #1:** Taking place on September 29, 2022, this event drew approximately 10 participants for a nearly one and a half hour discussion.
- **PCC #2:** Took place on June 27, 2023, this event drew approximately 25 participants over a nearly two-hour discussion.
- **"Pop-up" events**: These in-person events provided an opportunity for members of the public to speak directly with the project team during the first consultation window, including Canada's Outdoor Farm Show (September 14, 2022), Tillsonburg Ribfest (September 23 and 24, 2022), Ingersoll Town Council Chamber (September 26, 2022).
- **Print advertising:** For audiences that prefer to receive news through newspapers and community publications, information on how to provide input was outlined in 28 **print ads** and **public notices** during the consultation period. Publications encompassed the *Oxford Review, Norfolk-Tillsonburg News, Woodstock Sentinel Review, Ayr News, Wilmot-Tavistock Gazette, St. Marys Independent, What's On Woodstock and Village Voice Oxford* editions.
- **Digital (web) and social media ads:** There was extensive online advertising throughout both consultation phases encompassing Facebook and Instagram for social media and digital advertising on popular websites geo-targeted to Oxford County residents. "Organic" (non-paid) postings on the County's social media pages has been ongoing.
- Media: A news release and posts to the Oxford County website were performed.
- **Stakeholder consultation meetings**: Sessions with Area Municipalities, community partners and other key stakeholders ensured such parties were informed about the process and were given opportunity to provide input.

Overall, feedback received through the public consultation and engagement campaign indicated general support for the 2024 W/WW MP strategy. The feedback centered on water and wastewater system service provisions, feasibility and cost effectiveness related to the following topics:

- Drinking water quality improvements (aesthetic);
- Water and wastewater servicing reliability;
- Changing servicing demands and infrastructure expansion (growth considerations);
- Water conservation programs and initiatives;
- Wastewater and water treatment enhancements; and
- Climate change resiliency.

Report No. PW 2023-33 will be circulated to Area Municipalities for information.

Strategic Plan (2020-2022)

**				17	Ø
WORKS WELL TOGETHER	WELL CONNECTED	SHAPES THE FUTURE	INFORMS & ENGAGES	PERFORMS & DELIVERS	POSITIVE IMPACT
1.ii.		3.iii.	4.i. 4.ii.	5.ii.	

DISCUSSION

Background

As noted in Report No. PW 2022-47, the draft 2024 W/WW MP was developed as a strategic planning document which prescribed Oxford County's comprehensive long-term water and wastewater servicing strategies that will support existing needs and accommodate future growth in population and employment through to the year 2046 in accordance with the 2020 Provincial Policy Statement and the County's approved Phase I Comprehensive Review (2020).

The draft 2024 W/WW MP was undertaken in accordance with the MCEA process for Master Plans (Appendix 4, Approach #1 of the MCEA, October 2000, as amended in 2007, 2011, 2015 and 2023). Accordingly, the draft 2024 W/WW MP considered all reasonable water and wastewater servicing alternatives and developed a preferred alternative that offered the lowest potential impacts on the natural, cultural, social and economic environment of the community.

In addition to the social, cultural, economic and environmental considerations, focus was placed on sustainability, constructability, operability and service integration with other existing or future water, wastewater and road infrastructure projects. The alternative water and wastewater servicing strategies were assessed for the greatest utility and potential impacts using the evaluation criteria framework shown in Table 1.

Category	Criteria
Technical	 Constructability Improvement to operations Infrastructure required Approval requirements Risk mitigation- regulatory, supply security, climate change, etc.
Social and Cultural	 Public acceptance Impact to cultural heritage infrastructure and landscapes Impact to archaeological infrastructure and resources
Environmental	 Impact to aquatic and terrestrial species and habitat Impact to surface water quantity and quality Impact on climate change
Economic	Capital costsOperation and maintenance costsAllows for planned community growth

Table 1: Water and Wastewater Servicing Evaluation Criteria

Comments

Preferred Servicing Strategies

Following review of opportunities and constraints across Oxford County's 17 municipal drinking water systems and 11 wastewater systems, the need to develop alternative servicing concepts and strategies were based on ensuring that there is sufficient treatment and transmission capacity available in time to service projected growth as well as sustain service to existing residents and businesses.

Of note, the draft 2024 W/WW MP was established to service growth and development that was focused within designated settlement areas, including fully serviced (municipal) large urban centers and villages as well as partially serviced (municipal) villages. The draft 2024 W/WW MP was directed to assume that any current privately serviced (well and/or septic) villages and/or rural clusters will remain on such servicing given that County approved growth was limited to minor infilling in those areas.

The preferred water and wastewater strategies were developed with the intent to:

- Optimize and maximize the available capacity in existing infrastructure before adding new infrastructure that may be required for additional treatment or transmission capacity;
- Provide reliability, redundancy and security in the infrastructure systems;
- Develop infrastructure systems which meet the MECP legislative requirements, best management practices and County's established asset level of service framework;
- Utilize proven, reliable, and financially sustainable technologies;
- Recognize water conservation and sewage system infiltration reduction measures which support environmental sustainability;
- Optimize pumping and storage infrastructure to maintain level of service under emergency conditions and extreme weather events; and
- Offer infrastructure solutions that recognize potential for growth beyond current planning horizons.

A high-level executive summary of the draft 2024 W/WW MP strategies, associated key actions and implementation plan is provided in Attachment 1. The complete final draft W/WW MP Report can be viewed on W/WW MP project webpage at https://speakup.oxfordcounty.ca/wwwmp.

Preferred Water Servicing Strategy and Projects

The preferred water servicing strategy involves extending existing water distribution systems (watermain extensions, new booster pumping stations, new storage facilities) to service infill areas and employment lands, optimizing existing well supply yields, expanding existing water treatment plant capacities, developing new well supplies, ongoing source water protection initiatives and continuing water conservation best management practices.

The preferred water servicing strategy has identified numerous water capital projects which are required to service existing needs and anticipated growth in Oxford County. The overall water capital program from 2024 to 2046 has been estimated to be approximately \$245 million (2023 dollars).

Below is a list of significant water projects for various County drinking water systems (DWS) anticipated for implementation over this timeframe:

Township of Blandford-Blenheim

- Drumbo DWS Standby power to existing wells, trunk watermain extensions/upsizing, new well supply, new water treatment plant with filtration
- Plattsville DWS Water treatment plant filtration upgrades, new well supply
- Bright DWS Plattsville to Bright water system interconnection, Well 5 decommissioning

Township of East Zorra-Tavistock

- *Tavistock DWS* New Well Supply, New Treatment Plant with Onsite Water Storage, Trunk watermain extensions/upsizing, Water Treatment Plant Filtration Upgrades, Water Tower Rehabilitation
- Innerkip DWS Water Infrastructure Refurbishment
- Hickson DWS Water Infrastructure Refurbishment

Township of Zorra

- *Embro DWS* New Water Storage, Reservoir disinfection (contact time) alterations, water storage enhancements
- Thamesford DWS Trunk watermain extensions, Reservoir disinfection (contact time) alterations
- *Lakeside DWS* Water Infrastructure Refurbishment

Township of South-West Oxford

- Mount Elgin DWS Water Treatment Plant Optimization, Ingersoll to Mount Elgin Water System Interconnection
- Beachville DWS New Well Supply and Water Storage
- Brownsville DWS Water Quality Improvements, Water Treatment Plant Filtration
 Addition
- Dereham Centre DWS Water Infrastructure Refurbishment

Township of Norwich

Norwich-Otterville-Springford DWS – Norwich Water Treatment Plant Filtration and Storage

Town of Tillsonburg

• *Tillsonburg DWS* – Upgrades to Wells 3 and 6A Treatment Facilities (Off-line), Well 7A Filtration Upgrades, Replacements of Wells 1A and 2, Standby Power, Water Storage Expansion, Trunk watermain extensions/upsizing, Source Water Protection

Town of Ingersoll

• Ingersoll DWS - Trunk watermain extensions/upsizing, New Booster Pumping Station, New Elevated Water Storage, Water Quality Improvement Pilot (taste / smell)

City of Woodstock

 Woodstock DWS – Standby Power, Southside Water Treatment Plant Replacement, Feedermain Twinning, Upgrades to Wells 6 and 9, Trunk watermain extensions/upsizing, New Water Booster Pumping Stations, Pressure Zone Boundary Adjustments, Source Water Protection

Preferred Wastewater Servicing Strategy and Projects

The preferred wastewater servicing strategy involves expanding existing wastewater collection systems (sewer mains extensions, new/upsized forcemains, new/upgraded sewage pumping stations) to service infill areas and employment lands, rehabilitating aging trunk sewers, expanding existing water treatment plant capacities and initiating sewer system inflow and infiltration reduction best management practices.

The preferred wastewater servicing strategy has identified numerous wastewater capital projects which are required to service existing needs and anticipated growth in Oxford County. The overall wastewater capital program from 2024 to 2046 has been estimated to be approximately \$329 million (2023 dollars). Below is a list of significant wastewater projects for various County wastewater systems (WWS) anticipated for implementation over this timeframe:

Township of Blandford-Blenheim

- Drumbo WWS Wastewater Treatment Plant Capacity Expansion (Phase 2), Standby power to SPS locations
- *Plattsville WWS* Wastewater Treatment Plant Optimization, Lagoon biosolids removal and berm repair, Trunk sewer extensions, forcemain twinning and capacity review

Township of East Zorra-Tavistock

- Tavistock WWS Wastewater Treatment Plant Capacity Expansion (Phase 2), Sewage Pumping Station Capacity Upgrades, Trunk sewer extensions/upsizing, Sewer System Inflow and Infiltration Reduction
- Innerkip WWS Upsizing/Twining of Forcemain to Woodstock

Township of Zorra

- Embro WWS Sewage Pumping Station Capacity Upgrades, Upsizing/Twining of Forcemain to Woodstock
- Thamesford WWS Wastewater Treatment Plant Upgrades

Township of South-West Oxford

 Mount Elgin WWS – Wastewater Treatment Plant Capacity Expansion (Phase 3 / 4), Ingersoll to Mount Elgin Wastewater System Interconnection (Forcemain)

Township of Norwich

 Norwich WWS – Wastewater Treatment Plant Capacity Expansion (Phase 2), Lagoon biosolids removal and berm repair

Town of Tillsonburg

• *Tillsonburg WWS* – Wastewater Treatment Plant Capacity Expansion (Phase 2), Trunk sewer rehabilitation, Upgrades to Sewage Pumping Stations, Forcemain Upgrades, Trunk sewer extensions/upsizing

Town of Ingersoll

• *Ingersoll WWS* - Trunk sewer extensions/upsizing, New Sewage Pumping Stations, New Forcemains, New Trunk sewer river crossing, Wastewater Treatment Plant Upgrades

City of Woodstock

 Woodstock DWS – Trunk sewer extensions/upsizing, New Forcemains, New/Upgraded Sewage Pumping Stations, Wastewater Treatment Plant Upgrades, Brick Pond Trunk sewer realignment, Sewer Inflow and Infiltration Reduction

Conclusions

As part of integrated growth management in Oxford County, the water and wastewater servicing strategies and identified infrastructure projects will accommodate the servicing needs in accordance with the County's approved Phase I Comprehensive Review (2020) growth forecast. Further, the preferred servicing strategies will enhance existing system needs and reliability of water and wastewater servicing provisions for existing County residents and businesses.

All project needs have been incorporated in the County's water and wastewater multi-year capital implementation plan to 2046, at a total estimated cost of approximately \$574 million between the years of 2024 and 2046 (~ \$25 million annually).

It is anticipated that the approved growth forecast to 2046 and associated capital implementation plan may be further refined through the ongoing 2024 Development Charges process.

SIGNATURES

Report Author:

Original signed by

Mackenzie Schultz Supervisor of Water and Wastewater Technical Services

Departmental Approval:

Original signed by

David Simpson, P.Eng., PMP Director of Public Works

Approved for submission:

Original signed by

Benjamin R. Addley Chief Administrative Officer

ATTACHMENT

Attachment 1 – Draft 2024 Water and Wastewater Master Plan Executive Summary (July 2023)

Report No. PW 2023-33 Attachment No. 1

Draft 2024 Oxford Water and Wastewater Master Plan

Executive Summary

July 6, 2023





2024 Oxford Water and Wastewater Master Plan Executive Summary

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1.0 INTRODUCTION

The County of Oxford ("the County") has commenced a Water and Wastewater Master Plan (W/WW MP) in order to develop, evaluate and determine a long term water and wastewater approach to manage current servicing needs as well as accommodate future projected population and employment growth to the year of 2046.

1.1 Background

The County owns 17 municipal drinking water systems and 11 municipal wastewater systems which includes, but is not limited to, approximately 735 km of distribution watermains, 34 water treatment plants, 42 water reservoirs/storage towers, 6 water booster stations, 61 active groundwater supply wells, 600+ km of sewers and forcemains, 36 sewage pumping stations, 9 wastewater treatment plants, SCADA systems, 4 bulk water stations and a biosolids management facility.

The County holds full municipal authority and is responsible for all water and wastewater system services, including water treatment, wastewater treatment, water distribution and wastewater collection, as per Section 11(11) of the Municipal Act, 2001.

1.2 Master Plan Goals

The following goals were developed for the W/WW MP:

- 1. Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046;
- Develop water and wastewater strategies that are consistent with and conform to Provincial policies/legislation and support the County's Official Plan and strategic initiatives;
- 3. Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure; and
- 4. Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability.

1.3 Study Area

The Study Area below incorporates the County's entire geographical region which includes its eight Area Municipalities - Township of Blandford-Blenheim, Township of East Zorra-Tavistock, Town of Ingersoll, Township of Norwich, Township of South-West Oxford, Town of Tillsonburg, City of Woodstock, and Township of Zorra. The Study Area is made up of rural areas, settlement clusters and smaller urban centres which cover approximately 2,000 km² as shown in Figure ES-1.1.

In order to provide the necessary land use planning and servicing basis for the settlement expansions that are required to accommodate this growth, the County and some Area Municipalities have recently initiated and/or completed a number of Secondary Plans. The Secondary planning processes are shown in Figure ES-1.2.

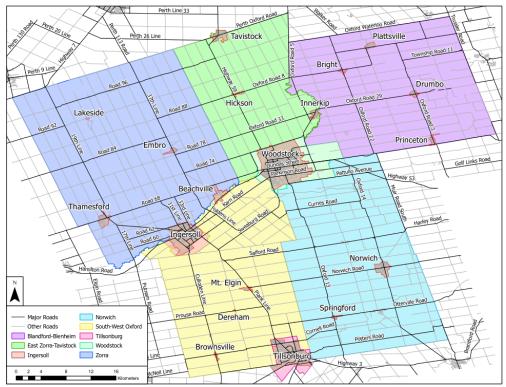


Figure ES-1.1: Water and Wastewater Master Plan Study Area

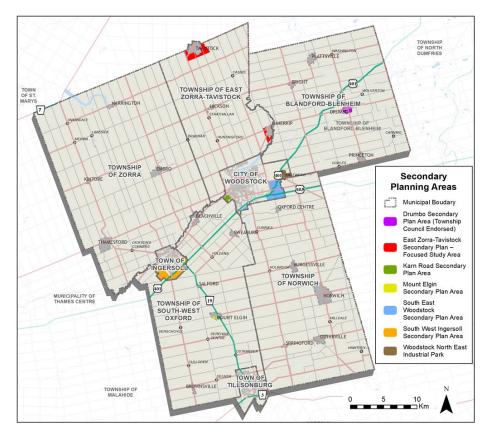


Figure ES-1.2: Oxford County's Secondary Planning Areas

2.0 MASTER PLANNING PROCESS

2.1 Class Environmental Assessment and Master Plan Process

The Master Plan process provides the basis for developing long-range water and wastewater servicing plans which integrates infrastructure requirements for existing / future land use and evaluates all reasonable servicing alternatives with considerations to natural, social, and economic environments ("triple bottom line").

In this regard, preparation of the 2024 W/WW MP followed the Municipal Class Environmental Assessment (Class EA) process which is an approved planning and design process under the *Ontario Environmental Assessment Act, 1990*. The W/WW MP was developed following Approach #1 of the Municipal Class EA process which involves a broad scope and a high level of assessment of the projects identified in the Study Area. Projects were identified and classified into schedules based on the type of undertakings and related activities (A, A+, B, C).

The W/WW MP serves to satisfy Phases 1 (identify the problem) and 2 (identify alternative solutions to the problem) of the five-phase Municipal Class EA planning and design process. While the Class EA requirements for Schedule A and A+ were fulfilled through the above approach, other project-specific investigations may be required to satisfy additional Class EA requirements (Phases 3 & 4) before implementation of certain individual projects (i.e. Schedule B and C Class EA Studies).

2.2 Problem and Opportunity Statement

The County has defined the following as its statement of the problem/opportunity to be addressed by the W/WW MP:

"To identify preferred water and wastewater servicing strategies to meet Oxford's growth needs to 2046 as well as provide effective on-going continuity to existing serviced settlement areas across Oxford County as appropriate."

The W/WW MP will afford on-going servicing continuity for the communities (designated as settlement areas in the Oxford County Official Plan), including fully serviced (municipal) large urban centres and villages, which are intended to be the primary focus for future growth and development, as well as partially serviced villages. The W/WW MP was directed to assume that any rural villages that are privately serviced and/or rural clusters will remain on such servicing given growth is limited to minor infilling in these areas.

The 2024 W/WW MP was developed to service planned population and employment growth forecasts to the year 2046 which are based on the approved 2020 Oxford County Phase 1 Comprehensive Review. As part of the water and wastewater servicing assessment, a sensitivity analysis was also undertaken to evaluate the potential impacts of higher than forecasted growth on the County's water and wastewater infrastructure needs. The purpose of this analysis was to provide the County with additional information and direction necessary to adjust the infrastructure improvement plans to accommodate higher than forecasted growth should it be identified through upcoming forecast updates, or otherwise materialize over the planning period.

3.0 PUBLIC CONSULTATION AND ENGAGEMENT

In keeping with the principles of the Municipal Class EA process, the W/WW MP featured a high degree of public and stakeholder involvement. The Class EA process requires stakeholder consultation to incorporate input from interested or impacted groups. Potential stakeholders included but were not limited to public, review agencies, Indigenous Communities, Oxford County Internal staff and Council departments, Area Municipality Councils and staff, and Railways, Transit Agencies, Utilities, etc.

The following summarizes the public announcements and consultation opportunities for public and agency input and participation in the study:

- Notice of Study Commencement in March 2022;
- News releases, radio ads, and social media posts;
- Two virtual Public Consultation Centres, in September 2022 and June 2023;
- Six in person consultation events at Canada's Outdoor Farm Show in Woodstock (September 2022), Ribfest in Tillsonburg (September 2022), Ingersoll Town Council Chambers (September 2022, March 2023), Oxford Council Chambers in Woodstock (March 2023), and Tillsonburg Council Chambers (March 2023);
- Updates and references to the study through the Oxford County website and "Speak-Up Oxford" (<u>https://oxfordcounty.ca/wwwmp</u>);
- Five advisory committee meetings with the Internal Technical Review Committee (InTAC) (April 2022, April & May 2023) and External Technical Review Committee (ExTAC) (April 2022, June 2023); and
- Presentations to Oxford County County.

Agencies, stakeholders, and Indigenous Communities were notified at key points in the study process, and they were encouraged to provide any information they felt was necessary for the Project Team to consider during the study. All comments received from agencies, stakeholders and Indigenous Communities were recorded and considered throughout the Master Plan process.

4.0 MASTER PLANNING PRINCIPLES

To review the issues and opportunities in the County with regards to water and wastewater servicing to the period to 2046, the following principles shown in the table below were developed by the County.

Table ES-4.1: Oxford County Water and Wastewater Master Planning Principles

2024 Water and Wastewater Master Plan

Integrate growth management planning and infrastructure servicing in a manner which ensures alignment with County's Official Plan and Strategic Initiatives

Offer infrastructure solutions that recognize potential for growth beyond current planning horizons

Develop infrastructure systems which meet the County's established asset level of service framework and MECP legislative requirements

Maximize the use of available existing capacity in infrastructure, while considering sustainable infrastructure expansions

Provide reliability, redundancy, and security in the infrastructure systems, including consideration of reserve capacity

Optimize pumping and storage infrastructure to maintain level of service under emergency conditions

Recommend proven, reliable, financially, and sustainable technologies that meet long-term servicing requirements

Recognize water conservation and efficiency measures to support environmental sustainability

Consider infrastructure operating and maintenance costs, including full lifecycle costing, to evaluate overall long-term financial implications and sustainability

5.0 WATER AND WASTEWATER SERVICING STRATEGY DEVELOPMENT

The process of determining Oxford County's long term water and wastewater servicing needs involved a number of tasks and evaluation processes that were undertaken as part of the W/WW MP process. Some of the key tasks undertaken included:

- Analyzing planning information and undertaking growth sensitivity analyses;
- · Establishing existing system conditions;
- Identifying issues and constraints for each system;
- Developing design criteria and projections of future water demands and wastewater flows;
- · Assessing existing and future infrastructure capacity;
- Assessing risk;
- Developing servicing evaluation criteria;
- Developing alternative servicing concepts;
- · Evaluating alternative servicing strategies; and
- Determining preferred servicing strategy, implementation, and phasing.

There are potential considerations that will influence the County's ability to provide water and wastewater services with its current infrastructure and these will have to be considered in planning existing and future works as summarized in Table ES-5.1.

Table ES-5.1: Summary of Major Water and Wastewater System Considerations

Water System	Wastewater System
 Changes in water quality requirements Variability in individual well yields Power Interruptions Climate Change – lowering of water table Source water protection – human impacts on water quality and quantity 	 Changes to regulated effluent quality Changes in discharge requirements due to the receiving stream's assimilative capacity. Power Interruptions Climate Change – increased sewer infiltration/inflow, flood levels impacting facilities

6.0 PREFERRED WATER SERVICING STRATEGY

6.1 Overall Water Strategy Summary

The preferred water servicing strategy ensures the County's municipal drinking water systems have adequate water supply, water treatment capacity, sufficient water system storage and pumping/transmission capabilities to the year 2046. The strategy was based on a combination of servicing alternatives which included:

- Optimizing existing well supply and water distribution conveyance infrastructure.
- Extending existing water distribution systems (watermain extensions, new booster pumping stations, new storage facilities, system interconnections) to service infill areas and employment lands.
- Developing new well supplies and expanding existing water treatment plant capacities.
- Ongoing source water protection initiatives and continuation of water conservation best management practices.
- Focusing growth and development within designated settlement areas, including fully serviced (municipal) large urban centers and villages as well as partially serviced (municipal) villages.

Specific alternatives for each drinking water system were then further developed based on the type of issue found within each system as summarized in Table ES-6.1.

Issues	Servicing Solutions Reviewed
Water Supply	Additional standby production well Interconnection with another system Specialized well rehabilitation Water conservation

Table ES-6.1: Summary of Solutions Reviewed for Water Issues

Issues	Servicing Solutions Reviewed
Water Treatment	Treatment at well site Treatment at centralized site (multiple wells) Treatment technologies (as applicable)
Water Distribution and Booster Pumping	Refurbish/upsize existing watermains New watermains Refurbish existing or build new BPS/standpipe Revise existing or create new pressure zones
Water Storage	In-ground Storage (and associated BPS) Elevated Storage
Risk	Backup power generation Source water protection and emerging water quality threats System redundancy and reliability

6.2 Servicing Requirements by System

As detailed in Table ES-6.2 (located on page ES-13), the preferred water servicing strategy has identified numerous water capital projects which are required to service existing needs and anticipated growth (infill areas, current/future secondary planning areas) in Oxford County to the year 2046. The overall water capital program from 2024 to 2046 has been estimated to be approximately \$245 million (2023 dollars).

Key servicing requirements for each municipal drinking water system (DWS) are as follow:

• Ingersoll DWS

 Trunk watermain extensions/upsizing, New Booster Pumping Station, New Elevated Water Storage, Water Quality Improvement Pilot

• Tillsonburg DWS

 Upgrades to Wells 3 and Well 7A treatment facilities, Replacements of Wells 1A and 2, 6A, and 11, Standby Power, Water Storage Expansion, Trunk watermain extensions/upsizing, Source Water Protection.

Woodstock DWS

- Standby Power, Southside Water Treatment Plant Replacement, Feedermain Twinning, Upgrades to Wells 6 and 9, Trunk watermain extensions/upsizing, New Water Booster Pumping Stations, Pressure Zone Boundary Adjustments, Source Water Protection.
- Norwich

o Oxford South DWS (Norwich, Springford and Otterville)

 Norwich Well 4 Water Treatment Plant Filtration Upgrades and Storage, New Standby Well supply.

• Blandford Blenheim

• Drumbo-Princeton DWS

- Standby power to existing wells, trunk watermain extensions/upsizing, new well supply, new Water treatment plant with filtration.
- Plattsville DWS
 - Water treatment plant filtration upgrades, New Standby Well supply.
- Bright DWS
 - Plattsville to Bright Water System Interconnection, Well 5 Decommissioning.
- South-West Oxford
 - Mount Elgin DWS
 - Mount Elgin Water Treatment Plant Optimization, Trunk Watermain Interconnection to Ingersoll Water System.
 - Beachville DWS
 - New Standby Well Supply and Water Storage.
 - Brownsville DWS
 - Water Quality Improvements, Water Treatment Plant Filtration.
 - Dereham Centre DWS
 - Water infrastructure refurbishment

• East-Zorra Tavistock

- o Innerkip DWS
 - Water infrastructure refurbishment.
- Tavistock DWS
 - New Well Supply, New Treatment Plant with Onsite Storage, Trunk watermain extensions/upsizing, Water Treatment Plant Filtration Upgrades, Water Tower Rehabilitation.
- Hickson DWS
 - Water infrastructure refurbishment.
- Zorra
 - Thamesford DWS
 - Trunk watermain extensions, Water Reservoir Contact Time Enhancements (reallocation to Storage).
 - o Embro DWS
 - Water Reservoir Contact Time Enhancements (reallocation to Storage, Water Storage Enhancements at Embro Water Treatment Plant.
 - Lakeside DWS
 - Water infrastructure refurbishment.

7.0 PREFERRED WASTEWATER SERVICING STRATEGY

7.1 Overall Strategy Description

The preferred wastewater servicing strategy ensures the County's municipal wastewater systems have sufficient wastewater conveyance capabilities and wastewater treatment capacity to the year 2046. The strategy was based on a combination of servicing alternatives which included:

- Optimizing existing wastewater collection and treatment plant infrastructure;
- Extending existing wastewater collection systems (sewer mains extensions, new/upsized forcemains, new/upgraded sewage pumping stations, system interconnections) to service infill areas and employment lands.
- Rehabilitating aging trunk sewers and initiating sewer system inflow and infiltration reduction best management practices.
- Expanding existing water treatment plant capacities.
- Focusing growth and development within designated settlement areas, including fully serviced (municipal) large urban centers and villages as well as partially serviced (municipal) villages.

Specific alternatives for each wastewater system were then further developed based on the type of issue found within each system as summarized in Table ES-7.1.

Component	Solutions Reviewed
Wastewater Collection and Conveyance	Trunk Sewers and Local Gravity Sewers Sanitary Pumping Station Forcemain Siphon (gravity flow underneath river) Infiltration and Inflow Control and Reduction
Wastewater Treatment	Headworks and Septage receiving facilities Liquid Treatment of wastewater (primary and secondary treatment) Tertiary Treatment (if required) to reduce nutrients in wastewater Wastewater effluent disinfection Biosolids Management (treatment, storage, disposal) Wet weather flow treatment (in some cases)

Table ES-7.1: Summary of Solutions Reviewed for Wastewater Issues

7.2 Detailed Servicing Requirements

As detailed in Table ES-7.2 (located on page ES-23), the preferred wastewater servicing strategy has identified numerous wastewater capital projects which are required to service existing needs and anticipated growth (infill areas, current/future secondary planning areas) in Oxford County to the year 2046. The overall wastewater 2024 - 2046 capital program is estimated at approximately \$329 million (2023 dollars).

Key servicing requirements for each municipal wastewater system (WWS) are as follow:

Ingersoll WWS

 Trunk sewer extensions/upsizing, New Sewage Pumping Stations, New Forcemains, New Trunk sewer river crossing, Wastewater Treatment Plant Headworks Upgrades.

• Tillsonburg WWS

 Wastewater Treatment Plant Capacity Expansion (Phase 2), Trunk sewer rehabilitation, Upgrades to Sewage Pumping Stations, Forcemain Upgrades, Trunk sewer extensions/upsizing.

Woodstock WWS

Trunk sewer extensions/upsizing, New Forcemains, New/Upgraded
 Sewage Pumping Stations, Wastewater Treatment Plant Upgrades, Brick
 Pond Trunk sewer realignment, Sewer Inflow and Infiltration Reduction.

• Blandford Blenheim

\circ Drumbo WWS

- Wastewater Treatment Plant Capacity Expansion (Phase 2), Standby power to SPS locations.
- Plattsville WWS
 - Wastewater Treatment Plant Optimization, Lagoon biosolids removal and berm repair, Trunk sewer extensions, forcemain twinning and capacity review.

Norwich WWS

• Wastewater Treatment Plant Capacity Expansion (Phase 2), Lagoon biosolids removal and berm repair.

• South-West Oxford

- o Mount Elgin WWS
 - Wastewater Treatment Plant Capacity Expansion (Phase 3 / 4), Ingersoll to Mount Elgin Wastewater System Interconnection (Forcemain).
- East-Zorra Tavistock

o Tavistock WWS

 Wastewater Treatment Plant Capacity Expansion (Phase 2), Sewage Pumping Station Capacity Upgrades, Trunk sewer extensions/upsizing, Sewer System Inflow and Infiltration Reduction.

o Innerkip WWS

Upsizing/Twining of Forcemain to Woodstock.

• Zorra

- Thamesford WWS
 - Wastewater Treatment Plant Upgrades.
- o Embro WWS
 - Sewage Pumping Station Capacity Upgrades, Upsizing/Twining of Forcemain to Woodstock.

7.3 Supporting Policy and Strategic Projects

In addition to water and wastewater capital projects identified, a number of supporting policies and strategies were also identified to be developed over the Master Plan period as shown in Table ES-7.3.

Project Description	1-5 Year	6-10 Year	+10 Year	Total
Fire Rated Systems Policy	\$50,000			\$50,000
Backup Power Prioritization Policy	\$35,000			\$35,000
Servicing Upgrades Policy	\$75,000	\$75,000	\$150,000	\$300,000
Connected Systems Rate Servicing Policy	\$75,000	\$75,000	\$75,000	\$225,000
2029 Water and Wastewater Master Plan	\$450,000			\$450,000
2034 Water and Wastewater Master Plan		\$450,000		\$450,000
2039 Water and Wastewater Master Plan			\$450,000	\$450,000
2044 Water and Wastewater Master Plan			\$450,000	\$450,000
2029 DC W/WW Technical Study		\$100,000		\$100,000
2034 DC W/WW Technical Study		\$100,000		\$100,000
2039 DC W/WW Technical Study			\$100,000	\$100,000
2044 DC W/WW Technical Study			\$100,000	\$100,000
TOTAL	\$685,000	\$800,000	\$1,325,000	\$2,810,000

 Table ES-7.3: Total Cost of Policy Development and Strategic Projects

8.0 IMPLEMENTATION

The preferred short and long term water and wastewater servicing strategies will be implemented in accordance with each project's respective Class EA schedule:

- Schedule A/A+ projects will move directly forward to design and construction based on the designated schedule.
- Schedule B projects identified will proceed through separate stand-alone studies (a Project File Report will be completed for public filing) or as part of an integrated planning process under the Planning Act in order to satisfy Class EA requirements.
- Schedule C projects identified will continue to Phases 3 and 4 of the Class EA process and have an Environmental Study Report (ESR) completed for public filing. It is anticipated that these Schedule C projects will review and update Phases 1 and 2 of the Class EA process as part of the project scope.

During the subsequent steps of project implementation, primarily during detailed design, the following requirements will be considered:

- Finalization of property requirements;
- Refinement of infrastructure alignment, sizing, facility siting and costing;

- Refinement of construction methodologies;
- Completion of additional supporting investigations as required such as geotechnical, hydro-geotechnical and site specific environmental studies;
- Review and mitigation of potential construction related impacts; and
- Completion of all approval requirements including, but not limited to, provincial approvals (MECP, MNR), local municipality approvals (site plans, building permits), and conservation authority approvals.

Given the growth-related nature of the servicing strategies, these capital programs will also form the foundation for the water and wastewater components of Oxford County's Development Charges (DC) By-Law as part of the County's Integrated Growth Management Process shown below. Along with the Water and Wastewater Development Charges Technical Report, the 2024 Water and Wastewater Master Plan provides recommendations, provides supporting information, and identifies the capital requirements for the Oxford County DC By-Law which will be updated for 2024.

The respective projects identified in the 2024 W/WW MP will also provide a baseline for Oxford County's future capital budgets.

Table ES-6.2 - Detailed Water Capital Implementation Plan

Town of INGERSOLL WATER SYSTEM

CAPACITY								
Project ID	Project Description		Cost	2	2024-2028	2029-2033	20	34 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	1,500,000	\$	375,000	\$ 375,000	\$	750,000
960307 ING	Groundwater Modelling	\$	170,000	\$	170,000			
NEW	Water Quality Improvements	\$	700,000	\$	350,000	\$ 350,000		
260300 ING	Specialized Well Rehabilitation Program	\$	430,000	\$	185,000	\$ 30,000	\$	215,000
DISTRIBUTION	- VACANT LANDS WITHIN URBAN BOUNDRY							
Project ID	Project Description		Cost	2	2024-2028	2029-2033	20	34 - 2046
960325 ING	Watermain Replacements	\$	30,325,000	\$	8,284,000	\$ 7,347,000	\$ 1	4,694,000
960335 ING	Watermain (Cast Iron) Replacements	\$	2,140,000	\$	2,140,000			
NEW	Thames Street South Trunk Watermain Extension from CNR to Holcroft	\$	324,000	\$	324,000			
SOUTH THAM	S RESIDENTIAL AREA							
NEW	Trunk Watermain on Hamilton Road from internal lands to existing water distribution system	\$	900,000	\$	900,000			
	(Oakwood ??)	Ŷ	500,000	Ŷ	500,000			
NEW	Trunk Watermain through internal lands from Hamilton Road to north of CNR (near Thomas	\$	720,000	\$	720,000			
DICTOURTINON	Street/Wallace Line) - EMPLOYMENT AREAS							
Project ID	Project Description		Cost	2	2024-2028	2029-2033	20	34 - 2046
-	INDUSTRIAL PARK		COST	-	.024-2020	2023-2033	20	54-2040
960337 ING	Wallace Line Trunk Watermain from Robinson Road to north of CNR (D)	\$	220,000	\$	220,000			
500557 1110	Wallace Line Trunk Watermain from Robinson Road to north of CNR (C)	\$	1,980,000	\$	1,980,000			
	NDUSTRIAL PARK	Ŷ	1,580,000	ç	1,580,000			
Second Feed	Wallace Line Second Feedermain from Robinson Road to Hwy 401 (D)	\$	45,000			\$ 45,000		
NEW	Wallace Line Second Feedermain from Robinson Road to Hwy 401 (C)	\$	450,000			\$ 450,000		
NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (D)	\$	162,500			\$ 162,500		
						Ş 102,500		
						\$ 1,625,000		
NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C)	\$	1,625,000			\$ 1,625,000 \$ 128,250		
NEW NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (D)	\$ \$	1,625,000 128,250			\$ 128,250		
NEW NEW NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (D) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (C)	\$ \$ \$	1,625,000 128,250 1,282,500			\$ 128,250 \$ 1,282,500		
NEW NEW NEW NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (D) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (C) Curry Road Trunk Watermain from Union Road to future water tower site (D)	\$ \$ \$ \$	1,625,000 128,250 1,282,500 286,920			\$128,250\$1,282,500\$286,920		
NEW NEW NEW NEW NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (D) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (C) Curry Road Trunk Watermain from Union Road to future water tower site (D) Curry Road Trunk Watermain from Union Road to future water tower site (C)	\$ \$ \$ \$ \$	1,625,000 128,250 1,282,500 286,920 2,869,200			\$ 128,250 \$ 1,282,500	<u>ج</u>	340 888
NEW NEW NEW NEW	Second Feedermain Hwy 401 Crossing - Wallace Line to Union Street (C) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (D) Union Road Trunk Watermain from Hwy 401 crossing to Curry Road (C) Curry Road Trunk Watermain from Union Road to future water tower site (D)	\$ \$ \$ \$	1,625,000 128,250 1,282,500 286,920			\$128,250\$1,282,500\$286,920	\$	340,888 3,067,991

Tillsonburg WATER SYSTEM

CAPACITY									
Project ID	Project Description		Cost		2024-2028	2	029-2033	20	34 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	1,500,000	\$	375,000	\$	375,000	\$	750,000
260200 WATER TBURG	Specialized Well Rehabilitation Program	\$	841,300	\$	342,700	\$	166,200	\$	332,400
960200 TBURG	Well 7A - Filtration Upgrades (C)	\$	1,500,000	\$	1,500,000				
960201 TBURG	Well 3 Facility Upgrade (D)	\$	415,000	\$	415,000				
960201 TBURG	Well 3 Facility Upgrade (C)	\$	2,300,000	\$	2,300,000				
NEW	Backup Power for North Street Pumphouse	\$	465,000	\$	465,000				
NEW	Replacement of Well 6A	\$	150,000	\$	150,000				
960211 TBURG	Broadway Secondary Transmission Main Feed	\$	1,309,000	\$	1,309,000				
NEW	Mall Rd Replacement Wells for Wells 1a and 2	\$	465,000			\$	465,000		
NEW	Bell Mill Replacement Well for Well 11	\$	642,000	\$	642,000				
NEW	Well 12 capacity increase feasibility study	\$	321,000					\$	321,000
NEW	Well 4 and 5 Treatability Study	\$	100,000	\$	100,000				
DISTRIBUTION									
Project ID	Project Description		Cost		2024-2028	2	029-2033	20	34 - 2046
NEW	Secondary Elevated Storage	\$	2,272,586					\$	4,545,171
NEW	Watermain West Town Line from Simcoe Street to Pot	\$	639,000			\$	639,000		
960235 TBURG	Watermain Replacements	\$	20,518,000	\$	7,678,000	\$	4,280,000	\$	8,560,000
	Victoria Wood Subdivision Watermain on Street I	÷	200.000	~	200.000				
NEW	from Westin Drive to Street F	\$	300,000	\$	300,000				
	Victoria Wood Subdivision Watermain on Grandview								
NEW	Drive (near Quarter Townline) West to Street A then	\$	675,000	\$	675,000				
	N to Concession Street W.								
	Cranberry Road Watermain Extension from Beckett	4	4 2 2 2 2 2 2 2		4 2 2 2 2 2 2 2				
960213 TBURG	Blvd North to Town Limits (C)	\$	1,309,000	\$	1,309,000				
NEW	North End Watermain Looping	\$	1,711,800	\$	1,711,800				

Tillsonburg WATER SYSTEM

DISTRIBTUION - EMPLOY	(MENT AREAS							
Project ID	Project Description	Cost	20	024-2028	2	029-2033	203	34 - 2046
Innovation Park Industri	al Lands							
NEW	Watermain looping VanNorman St watermain loop (off HWY 3)	\$ 540,000					\$	540,000
Rokeby Sideroad Industr	ial Lands							
NEW	Vienna Road Watermain Extension from Rouse Street to South on Vienna Rd.	\$ 271,250			\$	271,250		
	TOTAL	\$ 40,517,521	\$	19,272,500	\$	6,196,450	\$ 1	5,048,571

City of WOODSTOCK WATER SYSTEM

CAPACITY								
Project ID	Project Description		Cost	2	2024-2028	2029-2033	2)34 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	2,000,000	\$	500,000	\$ 500,000	\$	1,000,000
NEW	Strik Drain Stormwater Management Facility	\$	550,000	\$	550,000			
260100 WDSTK	Specialized Well Rehabilitation Program	\$	2,000,000		500,000	\$ 500,000	\$	1,000,000
960159 WDSTK	Thornton to Woodstock Feedermain Replacement (D)	\$	1,000,000	\$	1,000,000			
960159 WDSTK	Thornton to Woodstock Feedermain Replacement (C)	\$	10,000,000	\$	10,000,000			
NEW	Zone 1 Pressure Reducing Valve Control Building to Southside Supply	\$	300,000	\$	300,000			
NEW	Thornton to HWY 401 crossing Feedermain Upgrade (RELINING 401 CROSSING)	\$	1,206,000	\$	1,206,000			
NEW	Thornton WTP High Lift Pumping Upgrades	\$	100,000			\$ 100,000		
	Well 9 and Well 6 upgrades at Southside WTP	\$	350,000			\$ 350,000		
NEW	Southside WTP Revitalization Study	\$	200,000			\$ 200,000		
NEW	Tower Generators	\$	300,000			\$ 300,000		
DISTRIBUTION -	VACANT LANDS							
Project ID	Project Description		Cost	2	2024-2028	2029-2033	2	034 - 2046
Karn Rd Seconda	iry Plan Area							
960154 WDSTK	Karn Rd (Zone 6) Booster Pumping Station (D)	\$	400,000	\$	400,000			
960154 WDSTK	Karn Rd (Zone 6) Booster Pumping Station (C)	\$	4,000,000	\$	4,000,000			
960134 WDSTK	Watermain from Karn Rd Booster Pumping Station west to Anderson Street, east along Karn Road	\$	1 845 000	ć	1.945.000			
900134 WD31K	and looping back to Booster Pumping Station	Ş	1,845,000	\$	1,845,000			
	Realignment of Zone 1 supply transmission main and 450 mm reservoir drain through Karn Road	\$	450.000	÷	450.000			
NEW	Subdivision	Ş	450,000	Ş	450,000			
Existing Distribut	tion System							
960120 WDSTK	Decommissioning of 0.8 MG Bowerhill Reservoir	\$	750,000	\$	750,000			
NEW	Bowerhill Reservoir Expansion (Zone 1)	\$	6,817,757				\$	6,817,757
NEW	Zone 2 Second Feedermain Trunk from Karn Road Booster Pumping Station to new expanded	Ś	270,000	\$	270,000			
	Zone 2 (northwest of Athlone service area)	Ş		Ş				
	Watermain Replacements (City)	\$	38,047,000	\$	9,547,000	\$ 9,500,000	\$	19,000,000
	Watermain Replacements (County)	\$	13,240,000	\$	3,310,000	\$ 3,310,000	\$	6,620,000
	Zone 3 Booster Pumping Station (D)	\$	376,026			\$ 376,026		
960155 WDSTK	Zone 3 Booster Pumping Station (C)	\$	2,506,842			\$ 2,506,842		
	County Road 17 / 11 th Line Watermain (D)	\$	144,000			\$ 144,000		
960163 WDSTK	County Road 17 / 11 th Line Watermain (C)	\$	1,440,000			\$ 1,440,000		
960164 WDSTK	11th Line Watermain Replacement (D)	\$	144,000			\$ 144,000		
960164 WDSTK	11th Line Watermain Replacement (C)	\$	1,440,000			\$ 1,440,000		
NEW	Zone 3 Pressure Reducing Valve Control Building to northern Zone 1 area (near Nellis Booster	Ś	200.000			\$ 200,000		
INEVV	Pumping Station)	Ş	200,000			ş 200,000		
East Woodstock	Secondary Plan Area							
NEW	Township Rd 3 Waterman from Oxford Road 4 to EPA woodlot area	\$	1,240,000	\$	1,240,000			

City of WOODSTOCK WATER SYSTEM

DISTRIBUTION - I	EMPLOYMENT LANDS							
Project ID	Project Description		Cost	2	024-2028	2029-2033	2)34 - 2046
North East Indus	trial Park							
960135 WDSTK	Toyota Easement Watermain from Elevated Storage tower to west side of Hwy 401 (C)	\$	1,096,000	\$	1,096,000			
NEW	Toyota Easement Hwy 401 Watermain Crossing (C)	\$	1,116,000	\$	1,116,000			
NEW	Easement Watermain from east side of Hwy 401 to west limit of Corlett site (D)	\$	43,000		43,000			
NEW	Easement Watermain from east side of Hwy 401 to west limit of Corlett site (C)	\$	388,000	\$	388,000			
NEW	Street C Watermain from Corlett site to Blandford Road (D)	\$	12,000	\$	12,000			
NEW	Street C Watermain from Corlett site to Blandford Road (C)	\$	112,000	\$	112,000			
NEW	Blandford Rd Watermain from Street C to Township Road #2 (D)	\$	23,000				\$	23,000
NEW	Blandford Rd Watermain from Street C to Township Road #2 (C)	\$	207,000				\$	207,000
South East Indus	trial Park							
960135 WDSTK	PHASE II							
	WM 400 mm on Patullo (~ 150 m east of Alyea Street/ opposite SPS to Southwest Limit of study							
	area) 790 meters & WM 400 mm on Patullo (Southwest Limit of study area to Middletown Line)	\$	164,000	\$	164,000			
	944 meters (D)							
	WM 400 mm on Patullo (~ 150 m east of Alyea Street/ opposite SPS to Southwest Limit of study							
	area) 790 meters & WM 400 mm on Patullo (Southwest Limit of study area to Middletown Line)	\$	1,475,000	\$	1,475,000			
	944 meters (C)							
	Middletown Line Watermain from Patullo Avenue to Street A (D)	\$	7,000	\$	7,000			
	Middletown Line Watermain from Patullo Avenue to Street A (C)	\$	65,000	\$	65,000			
	PHASE III							
	Street A service corridor to Street B (D)	\$	10,000				\$	10,000
	Street A service corridor to Street B (C)	\$	100,000				\$	100,000
	Street A Watermain from Middletown Line to Service Corridor (D)	\$	10,000				\$	10,000
	Street A Watermain from Middletown Line to Service Corridor (C)	\$	100,000				\$	100,000
	Service corridor Watermain from Street A to Hwy 403 (D)	\$	4,000				\$	4,000
	Service corridor Watermain from Street A to Hwy 403 (C)	\$	36,000				\$	36,000
	Street B Watermain from Street A to Patullo Avenue (D)	\$	5,000				\$	5,000
	Street B Watermain from Street A to Patullo Avenue (C)	\$	45,000				\$	45,000
	TOTAL	Ś	96,334,625	Ś	40.346.000	\$ 21,010,868	Ś	34,977,757

Township of NORWICH WATER SYSTEM

CAPACITY									
Project ID	Project Description		Cost	20	24-2028	202	9-2033	20	34 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	300,000	\$	75,000	\$	75,000	\$	150,000
260400 Water	Specialized Well Rehabilitation Program	\$	140,000	Ś	20,000	÷	40,000	\$	80,000
Townships		Ş	140,000	ç	20,000	Ş	40,000	Ş	80,000
NORWICH									
NEW	New Standpipe at Main St WTF (Well 4)	\$	2,272,586			\$2,	272,586		
960429									
Manganese	Now Filtration Facility at Main St W/TE (D)	\$	261 464	\$	261 454				
Filtration	New Filtration Facility at Main St WTF (D)	Ş	361,454	Ş	361,454				
Townships									
960429									
Manganese	Now Filtration Facility at Main St WTF (C)	Ś	2 252 007			\$3,	252 007		
Filtration	New Filtration Facility at Main St WTF (C)	Ş	3,253,087			Ş 3,	253,087		
Townships									
NEW	New Water Supply	\$	1,571,400					\$	1,571,400
DISTRIBUTION	- VACANT LANDS WITHIN URBAN BOUNDARY								
Project ID	Project Description		Cost	20	24-2028	202	9-2033	20	34 - 2046
960400 Townsh	Watermain Replacements (Townships)	\$	1,953,000	\$1	,953,000				
960402 New As	New Asset Supply/Linear Watermain Replacements (Townships)	\$	600,000	\$	150,000	\$	150,000	\$	300,000
	TOTAL	\$	10,451,527	\$ 2	,559,454	\$5,	790,673	\$	2,101,400

CAPACITY							
Project ID	Project Description		Cost		2024-2028	2029-2033	2034-2046
NEW	Water Efficiency/Buy-Back Program	\$	300,000	\$	75,000.00	\$ 75,000.00	\$ 150,000.00
960429							
Manganese	Manager Silteration (Toursching) Diatta illa (D)		426 450	÷	426 150 00		
Filtration	Manganese Filtration (Townships) - Plattsville (D)	\$	426,159	\$	426,159.00		
Townships							
960429							
Manganese	Mangapore Eiltration (Townshins) - Platteville (C)	ć	2 941 050	ć	2 941 050 00		
Filtration	Manganese Filtration (Townships) - Plattsville (C)	\$	2,841,059	Ş	2,841,059.00		
Townships							
BRIGHT							
NEW	Bright to Plattsville Interconnecting Watermain	\$	4,417,500				\$ 4,417,500
NEW	Bright Well 5 Abandonment Study	\$	150,000				\$ 150,000
PLATTSVILLE							
NEW	Land Acquisition for new WTF for Manganese Treatment	\$	400,000	\$	400,000		
NEW	New Well Supply	\$	1,571,400				\$ 1,571,400
NEW	Backup Generation at WTF	\$	427,646			\$ 427,646	
DRUMBO-PRIN							
NEW	New Well Supply	\$	1,167,000	\$	1,167,000		
NEW	Provide backup generation to Wells 1 and 2A	\$	300,000	\$	150,000	\$ 150,000	
NEW	Water Treatment Plant Land Acquisition			\$	400,000		
NEW	Water Treatment Plant Relocation (D)			\$	701,283		
NEW	Water Treatment Plant Relocation (C)			\$	4,675,217		
	- VACANT LANDS WITHIN URBAN BOUNDARY						
Project ID	Project Description		Cost		2024-2028	2029-2033	2034-2046
NEW	Plattsville N Boundary Trunk Watermain Extension Hoffstetter Rd North to limit	\$	333,250	\$	333,250		
NEW	Applewood Trunk Watermain Upsizing	\$	82,500	\$	82,500		
NEW	Princeton Roper Street Trunk Watermain Upsizing	\$	232,250	\$	232,250		
960400	Watermain Replacements (Townships)	\$	150,000	\$	150,000		
Townships							
	ΤΟΤΑ	L \$	18,575,264.00	\$	11,633,718.00	\$ 652,646.00	\$ 5,288,900.00

Township of Blandford Blenheim WATER SYSTEMS

CAPACITY								
Project ID	Project Description		Cost	2024-2028		2029-2033	2	034 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	300,000	\$	75,000	\$ 75,000	\$	150,000
260400 Water	Specialized Well Rehabilitation Program	ć	100,000	Ś	10,000	\$ 30,000	ć	60,000
Townships		Ş	100,000	Ş	10,000	\$ 50,000	Ş	60,000
960422 TWSP	Water Quality Improvements (Brownsvile)	\$	100,000	\$	100,000			
960429								
Manganese	Manganese Filtration (Brownsville)	Ś	2,565,878			\$ 2,565,878		
Filtration	ivialigatiese Filitation (Brownsville)	Ş	2,505,678			\$ 2,505,676		
Townships								
MOUNT ELGIN								
NEW	Graydon Facility Enhancement / Optimization	\$	200,000	\$	200,000			
NEW	Ingersoll to Mt Elgin Watermain Connection (D)	\$	1,093,575				\$	1,093,575
BEACHVILLE								
NEW	Additional Well Supply and Standpipe	\$	1,935,014			\$ 1,935,014		
	TOTAL	\$	6,294,467	\$	385,000	\$ 4,605,892	\$	1,303,575

Township of South-West Oxford WATER SYSTEM

CAPACITY									
Project ID	Project Description		Cost	2	2024-2028	2	2029-2033	20	034 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	300,000	\$	75,000	\$	75,000	\$	150,000
260400 Water	Specialized Well Rehabilitation Program	\$	100,000	\$	10.000	ć	20.000	\$	<u> </u>
Townships	specialized well Reliabilitation Program	Ş	100,000	Ş	10,000	\$	30,000	Ş	60,000
960429									
Manganese	Manganaca Filtratian (Townshing)	\$	E E02 971			\$	E E02 071		
Filtration	Manganese Filtration (Townships)	Ş	5,592,871			Ş	5,592,871		
Townships									
TAVISTOCK									
NEW	Tower CT Enhancement Study	\$	30,000	\$	30,000				
960437-TAV	New Well Supply - Well #4 and Storage (D)	\$	511,081	\$	511,081				
960437-TAV	New Well Supply - Well #4 and Storage (C)	\$	4,599,729	\$	4,599,729				
960462-TAV	Water Tower Rehabilitation and Repainting (D)	\$	400,000			\$	400,000		
960462-TAV	Water Tower Rehabilitation and Repainting (C)	\$	3,600,000			\$	3,600,000		
DISTRIBUTION	- VACANT LANDS WITHIN URBAN BOUNDARY								
Project ID	Project Description		Cost	2	2024-2028	2	2029-2033	20	034 - 2046
960400									
Township	Watermain Deplessments (Termahing)	ć	1 905 400	4	1 052 000	4		\$	042 400
Distribution	Watermain Replacements (Townships)	\$	1,895,400	Ş	1,053,000	Ş	-	Ş	842,400
Replacement									
960402 New									
Asset	New Asset Supply/Linear Watermain Replacements (Townships)	\$	440,000	\$	170,000	\$	90,000	\$	180,000
Supply/Linear									
	TOTAL	\$	17,469,081	\$	6,448,810	\$	9,787,871	\$	1,232,400

Township of East Zorra-Tavistock WATER SYSTEMS

Township of ZORRA WATER SYSTEM

CAPACITY									
Project ID	Project Description		Cost		Cost		024-2028	2029-2033	2034 - 2046
NEW	Water Efficiency/Buy-Back Program	\$	300,000	\$	75,000	\$ 75,000	\$ 150,000		
960400 Water	Specialized Well Rehabilitation Program	¢	120.000	¢	10.000	\$ 40.000	¢ 00.000		
Townships		\$	130,000	\$	10,000	\$ 40,000	\$ 80,000		
THAMESFORD									
NEW	Reservoir and Tower CT Enhancement Study	\$	300,000	\$	300,000				
EMBRO									
NEW	Reservoir CT Enhancement Upgrades	\$	300,000	\$	300,000				
NEW	Embro - Storage Expansion	\$	568,146			\$ 568,146			
	- VACANT LANDS WITHIN URBAN BOUNDARY								
Project ID	Project Description		Cost	2	024-2028	2029-2033	2034 - 2046		
960400									
Township	Watermain Replacements (Townships)	\$	3,342,000	\$	867,000	\$ 825,000	\$ 1,650,000		
Distribution		φ	3,342,000	φ	007,000	φ 023,000	φ 1,050,000		
Replacement									
NEW	Watermain Trunk Extension on Oxford Road 2 to west of Banner Road (Thamesford)	\$	1,007,500	\$	1,007,500				
	Total	\$	5,947,646	\$	2,559,500	\$ 1,508,146	\$ 1,880,000		

Town of INGERSOLL WASTEWATER SYSTEM

CAPACITY					
Project ID	Project Description	Cost	2024-2028	2029-2033	2034 - 2046
NEW	Sanitary Trunk Sewer Infiltration and Inflow Reduction	\$ 17,200,000	\$ 4,300,000	\$ 4,300,000	\$ 8,600,000
NEW	WWTP Headworks Upgrades	\$ 14,000,000			\$ 14,000,000
NEW	Digester Biogas Project	\$ 450,000	\$ 450,000		
COLLECTION					
Project ID	Project Description	Cost	2024-2028	2029-2033	2034 - 2046
950330 ING	Sanitary Sewer Replacements	\$ 23,639,000	\$ 5,117,000	\$ 6,174,000	\$ 12,348,000
950332 ING	Sanitary Sewer Relining	\$ 3,040,000	\$ 760,000	\$ 760,000	\$ 1,520,000
NEW	Second Sanitary Trunk Crossing of Thames River	\$ 1,372,500		\$ 150,000	\$ 1,222,500
SOUTH THAMES	RESIDENTIAL AREA				
NEW	Hamilton Road Sanitary Sewer from service lands to east of Ingersoll Street and north to existing 675 mm Trunk Sewer	\$ 475,000	\$ 475,000		
NEW	Sanitary Sewer through internal lands from Hamilton Road to north of CNR (near Thomas Street/Wallace Line)	\$ 760,000	\$ 760,000		
COLLECTION - EN	APLOYMENT LANDS				
Project ID	Project Description	Cost	2024-2028	2029-2033	2034 - 2046
WALLACE LINE I	NDUSTRIAL PARK				
950336 - ING SW INDUSTRIAL PARK	Wallace Line Sanitary Sewer from Robinson Road to north of CNR (D)	\$ 110,000	\$ 110,000		
950336 - ING SW INDUSTRIAL PARK	Wallace Line Sanitary Sewer from Robinson Road to north of CNR (C)	\$ 1,100,000	\$ 1,100,000		
SOUTHWEST IND	DUSTRIAL PARK (areas B1a,B1b,B1c,B2,C1)				
NEW	Union Road Sanitary Sewer from Culloden Line to Curry Road	\$ 527,800		\$ 527,800	
NEW	Curry Road Sanitary Sewer from Union Road to west limit of CPR	\$ 964,100		\$ 964,100	
NEW	CPR Easement Sanitary Sewer from Curry Road to West Sewage Pumping Station - south of Hwy 401	\$ 557,525		\$ 557,525	
NEW	West Sewage Pumping Station - south of Hwy 401 (area B1a)	\$ 5,625,000		\$ 5,625,000	
	Easement Forcemain Hwy 401 crossing from West Sewage Pumping Station to Clarke Road area (existing				
NEW	system)	\$ 925,750		\$ 925,750	
NEW	Curry Road Sanitary Sewer from east limit of CPR to Plank Line	\$ 923,025		\$ 923,025	
NEW	Plank Line Sewage Pumping Station (south of Hwy 401) (in area C1)	\$ 4,500,000		\$ 4,500,000	
NEW	Easement Forcemain from Plank Line Sewage Pumping Station to West Sewage Pumping Station	\$ 895,125		\$ 895,125	
	ΤΟΤΑΙ	\$ 77,064,825	\$ 13,072,000	\$ 26,302,325	\$ 37,690,500

Tillsonburg WASTEWATER SYSTEM

CAPACITY							
Project ID	Project Description	Cost	2024-2028	2	029-2033	2	034 - 2046
NEW	Sanitary Trunk Sewer Infiltration and Inflow Reduction	\$ 1,200,000	\$ 300,000	\$	300,000	\$	600,000
NEW	Tillsonburg Wastewater Treatment Plant Phase II Capacity Expansion (D)	\$ 1,387,448				\$	1,387,448
NEW	Tillsonburg Wastewater Treatment Plant Phase II Capacity Expansion (C)	\$ 13,874,485				\$	13,874,485
NEW	Climate change resiliency study (flooding/barricades)	\$ 150,000				\$	150,000
NEW	Sanitary Gravity Trunk Line replacement and upsizing from Vienna Rd to Wastewater Treatment Plant	\$ 600,000	\$ 200,000	\$	400,000		
NEW	Gravity inlet trunk sewer replacement to WWTP	\$ 127,500	\$ 127,500				
COLLECTION							
Project ID	Project Description	Cost	 2024-2028	2	029-2033	2	034 - 2046
950226 TBURG	Sanitary Sewer Replacements	\$ 14,956,000	\$ 5,690,000	\$	1,788,000	\$	7,478,000
NEW	Stoney Creek Trunk Sewer Rehabilitation from Quarter Town Line to Concession Street West	\$ 600,000	\$ 200,000	\$	400,000		
NEW	John Pound forcemain replacement and upsizing	\$ 575,000	\$ 575,000				
NEW	John Pound SPS capacity enhancements (D)	\$ 118,000	\$ 118,000				
NEW	John Pound SPS capacity enhancements (C)	\$ 214,000		\$	214,000		
950216 TBURG	Cranberry Road Sanitary Trunk extension on Tilson Ave from North of Beckett Blvd to North Town Limit	\$ 856,000		\$	856,000		
NEW	Loraine Ave Sanitary Trunk Upsizing	\$ 577,500				\$	577,500
COLLECTION - E	MPLOYMENT LANDS						
Project ID	Project Description	Cost	2024-2028	2	029-2033	2	034 - 2046
Rokeby Sideroa	d Industrial Lands						
NEW	Rouse St SPS upgrades	\$ 1,500,000		\$	1,500,000		
	TOTAL	\$ 36,735,933	\$ 7,210,500	\$	5,458,000	\$	24,067,433

City of WOODSTOCK WASTEWATER SYSTEM

CAPACITY									
Project ID	Project Description		Cost	2	024-2028	2	029-2033	2	034 - 2046
NEW	Sanitary Trunk Sewer Infiltration and Inflow Reduction	\$	2,000,000	\$	500,000	\$	500,000	\$	1,000,000
NEW	Woodstock WWTP Operational Upgrades	\$ 1	L2,500,000			\$	12,500,000		
NEW	Thames Valley SPS Capacity Review (D)	\$	200,000			\$	200,000		
NEW	Thames Valley SPS (C)	\$	2,052,000					\$	2,052,000
Linear Existing I	Projects								
Project ID	Project Description		Cost	2	024-2028	2	029-2033	2	034 - 2046
NEW	Brick Pond Sanitary Trunk Sewer Re-alignment Class EA Study					\$	214,000		
NEW	Brick Pond Sanitary Trunk Sewer Re-alignment Class	\$	4,066,000			\$	4,066,000		
950173 WDSTK	Sanitary Sewer Replacement (OR 59 & Fairway) - (D)	\$	25,000	\$	25,000				
950173 WDSTK	Sanitary Sewer Replacement (OR 59 & Fairway) - (C)	\$	225,000	\$	225,000				
950174 WDSTK	Sanitary Sewer Replacements - County Projects	\$	6,060,000	\$	2,760,000	\$	1,100,000	\$	2,200,000
950158 WDSTK	Sanitary Sewer Replacements - City Projects	\$ 3	39,987,000	\$	9,987,000	\$	10,000,000	\$	20,000,000
950162 WDSTK	11th Line Sanitary Sewer (D)	\$	62,500			\$	62,500		
	11th Line Sanitary Sewer (C)	\$	625,000			\$	625,000		
950140 WDSTK	Northwest Trunk Upsizing	\$	250,000	\$	250,000				
COLLECTION - V	ACANT LANDS								
Project ID	Project Description		Cost	2	024-2028	2	029-2033	2	034 - 2046
Karn Rd Second	ary Plan Area								
960154 WDSTK	Gravity / Siphon Upsize	\$	545,000			\$	545,000		
East Woodstock	secondary Plan Area								
NEW	East Trunk Sewer	\$	907,500	\$	907,500				
NEW	Extension of East Trunk Sewer	\$	775,000	\$	775,000				
950163 WDSTK	Lansdowne Sewage Pumping Station (C)	\$	3,000,000	\$	3,000,000				
NEW	West Trunk Sewer	\$	742,500	\$	742,500				

City of WOODSTOCK WASTEWATER SYSTEM

Project ID	Project Description	Cost	2	2024-2028	2029-2033	2034 - 2	2046
North East Indu	istrial Park						
950150 WDSTK	Sewage Pumping Station A (D)	\$ 228,000	\$	228,000			
	Sewage Pumping Station A (C)	\$ 2,000,000	\$	2,000,000			
	Dundas Street Forcemain from Houser's Lane (MH SA 992) to Water Tower site (C)	\$ 2,100,244	\$	2,100,244			
	Toyota Easement Forcemain from Water Tower Site to west side of Hwy 401 (C)	\$ 424,696	\$	424,696			
	Hwy 401 Forcemain Crossing (C)	\$ 424,080	\$	424,080			
	Street C Forcemain from east side of Hwy 401 to SPS A (Blandford Road) (D)	\$ 90,000	\$	90,000			
	Street C Forcemain from east side of Hwy 401 to SPS A (Blandford Road) (C)	\$ 813,000	\$	813,000			
	Blandford Road Forcemain from Street C to SPS A (D)	\$ 20,000	\$	20,000			
	Blandford Road Forcemain from Street C to SPS A (C)	\$ 180,000	\$	180,000			
	Southeast Sanitary Trunk Oversizing Capacity Assessment	\$ 100,000	\$	100,000			
	Southeast Sanitary Trunk Oversizing SA752051-SA751578 west of Butler	\$ 3,342,000				\$ 3,342	2,000
South East Indu	istrial Park						
950152 WDSTK	PHASE II						
	Patullo Avenue Sanitary main from Alyea SPS to southwest limit of South East Secondary Plan Area (D)	\$ 100,000	\$	100,000			
	Patullo Avenue Sanitary main from Alyea SPS to southwest limit of South East Secondary Plan Area (C)	\$ 917,000	\$	917,000			
	Patullo Avenue Sanitary main from South East Secondary Plan Area to Middletown Line (D)	\$ 50,000	\$	50,000			
	Patullo Avenue Sanitary main from South East Secondary Plan Area to Middletown Line (C)	\$ 431,000	\$	431,000			
	Middletown Line Sanitary main from Patullo Avenue to Street A (C)	\$ 169,000	\$	169,000			
950151 WDSTK	Southeast Trunk Sanitary Condition assessment	\$ 100,000	\$	100,000			

City of WOODSTOCK WASTEWATER SYSTEM

Patullo Avenue South East Sanitary Trunk Oversizing from South Trunk Sewer (MH SA754367) to South Trunk Sewer (MH SA755111) (D)	\$ 189,945			\$ 189,945
Patullo Avenue South East Sanitary Trunk Oversizing from South Trunk Sewer (MH SA754367) to South Trunk Sewer (MH SA755111) (C)	\$ 1,899,450			\$ 1,899,450
TOTAL	\$ 87,814,915	\$ 27,319,020	\$ 29,812,500	\$ 30,683,395

Township of NORWICH WASTEWATER SYSTEM

CAPACITY						
Project ID	Project Description	Cost	• •	2024-2028	2029-2033	2034 - 2046
	Sanitary Trunk Sewer Infiltration and Inflow Reduction	\$ 5,160,000	\$	1,290,000	\$ 1,290,000	\$ 2,580,000
NORWICH						
950409-NOR	Norwich Lagoon Biosolids Clean-out	\$ 1,000,000			\$ 1,000,000	
950410 -NOR	Norwich Lagoon Berm Repair	\$ 100,000	\$	100,000		
950412-NOR	Norwich Wastewater Treatment Plant Capacity Expansion - Phase II (D)	\$ 1,250,000	\$	1,250,000		
950412-NOR	Norwich Wastewater Treatment Plant Capacity Expansion - Phase II (C)	\$ 10,500,000	\$	10,500,000		
COLLECTION - V	ACANT LANDS WITHIN URBAN BOUNDARY					
Project ID	Project Description	Cost		2024-2028	2029-2033	2034 - 2046
NORWICH						
950450-NOR	Sanitary Sewer Replacements	\$ 3,915,000	\$	1,200,000	\$ 905,000	\$ 1,810,000
	TOTAL	\$ 21,925,000	\$	14,340,000	\$ 3,195,000	\$ 4,390,000

CAPACITY											
Project ID	Project Description	Cost	2	2024-2028	20)29-2033	203	34 - 2046			
PLATTSVILLE											
950607-PLAT	Plattsville Lagoon Biosolids Clean-out	\$ 910,000	\$	910,000							
950608-PLAT	Plattsville Lagoon Berm Repair	\$ 100,000	\$	100,000							
NEW	Plattsville WWTP Operational Enhancement	\$ 1,000,000	\$	1,000,000							
DRUMBO											
950810-DRUMBO	Drumbo Wastewater Treatment Capacity Expansion (Phase II) - (D)	\$ 100,000	\$	100,000							
950810-DRUMBO	Drumbo Wastewater Treatment Capacity Expansion (Phase II) - (C)	\$ 500,000	\$	500,000							
COLLECTION - VAC	ANT LANDS WITHIN URBAN BOUNDARY										
Project ID	Project Description	Cost	2	2024-2028		2024-2028		2029-2033		2034 - 2046	
PLATTSVILLE											
950650-PLAT	Plattsville Sanitary Sewer Replacements	\$ 2,932,800	\$	1,497,600	\$	478,400	\$	956,800			
NEW	Plattsville FM Twinning and SPS capacity review				\$	125,000					
	TOTAL	\$ 5,667,800	\$	4,107,600	\$	603,400	\$	956,800			

Township of Blandford Blenheim WASTEWATER SYSTEMS

Township of South-West Oxford WASTEWATER SYSTEMS

CAPACITY							
Project ID	Project Description	Cost	20	24-2028	2029-2033	1	2034 - 2046
MOUNT ELGIN							
950905 MT ELGIN	Mt. Elgin Wastewater Treatment Plant Capacity Expansion Phase 3 and 4 (C)	\$ 2,679,600	\$	2,679,600			
NEW	Sanitary Forcemain Connection to Ingersoll	\$ 10,990,000				\$	5 10,990,000
COLLECTION - V	ACANT LANDS WITHIN URBAN BOUNDARY						
Project ID	Project Description	Cost	20	24-2028	2029-2033	1	2034 - 2046
MOUNT ELGIN							
NEW	Sanitary Sewer Upgrades	\$ 400,000	\$	100,000	\$ 100,000) \$	200,000
NEW	Forcemain Upsizing	\$ 891,250	\$	891,250			
	TOTAL	\$ 14,960,850	\$	3,670,850	\$ 100,000) \$	5 11,190,000

		-		-		1			
CAPACITY									
Project ID	Project Description		Cost	2	2024-2028	2	029-2033	203	84 - 2046
NEW	Sanitary Trunk Sewer Infiltration and Inflow Reduction	\$	8,600,000	\$	2,150,000	\$	2,150,000	\$4,	,300,000
TAVISTOCK									
950504-TAV	Tavistock Wastewater Treatment Plant Capacity Expansion to x m3/d (D)	\$	5,250,000	\$	5,250,000				
950504-TAV	Tavistock Wastewater Treatment Plant Capacity Expansion to x m3/d (C)	\$	35,000,000	\$	35,000,000				
NEW	Tavistock Lagoon Cell Clean Out	\$	3,400,000					\$3 <i>,</i> 4	400,000
INNERKIP									
NEW	Woodstock to Innerkip Interconnecting Sanitary Forcemain Twinning	\$	6,480,000	\$	6,480,000				
COLLECTION ·	VACANT LANDS WITHIN URBAN BOUNDARY								
Project ID	Project Description		Cost	2	2024-2028	2	029-2033	203	84 - 2046
TAVISTOCK									
950550-TAV	Tavistock Sanitary Sewer Replacements	\$	3,141,000	\$	1,821,000	\$	440,000	\$	880,000
950513-TAV	William Street Sewage Pumping Station Capacity Expansion (D)	\$	725,000	\$	725,000				
950513-TAV	William Street Sewage Pumping Station Capacity Expansion (C)	\$	6,525,000	\$	6,525,000				
	Total	\$	69,121,000	\$	57,951,000	\$	2,590,000	\$ 8,	,580,000

Township of East Zorra-Tavistock WASTEWATER SYSTEMS

Township of ZORRA WASTEWATER SYSTEMS

CAPACITY					
Project ID	Project Description	Cost	2024-2028	2029-2033	2034 - 2046
THAMESFORD					
950718 THAMES	WWTP Upgrades (C)	\$ 3,800,000	\$ 3,800,000		
EMBRO					
NEW	Woodstock to Embro Interconnecting Sanitary Forcemain - enhancements	\$ 11,625,000			\$ 11,625,000
NEW	Embro SPS - enhancements	\$ 750,000			\$ 750,000
	TOTAL	\$ 16,175,000	\$ 3,800,000	\$-	\$ 12,375,000



Municipal Council of the County of Oxford Council Meeting - Oxford County

Date: Wednesday, July 12, 2023

Moved By: Brian Petrie

Seconded By: David Mayberry

Resolved that the recommendations contained in Report No. PW 2023-33, titled "2024 Water and Wastewater Master Plan", be received as information;

And further, that the draft report be circulated to area municipalities requesting their feedback within 75 days (September 25, 2023);

And further that the draft report be posted to Speak Up Oxford for feedback from the public for 75 days (September 25, 2023);

And further that all comments received be provided in a report for council's consideration when considering the draft report.

DISPOSITION: Motion Carried

APPENDIX 2.2.5

Report to Council 2024 Water and Wastewater Master Plan – Extended Consultation October 11, 2023





REPORT TO COUNTY COUNCIL

2024 Water and Wastewater Master Plan – Extended Consultation

To: Warden and Members of County Council

From: Director of Public Works

RECOMMENDATIONS

- 1. That County Council endorse, in principle, the draft 2024 Water and Wastewater Master Plan (W/WW MP) as the recommended servicing strategies to meet Oxford's growth needs to 2046, as well as provide effective ongoing continuity to existing serviced settlement areas as previously detailed in Report No. PW 2023-33 entitled "2024 Water and Wastewater Master Plan";
- 2. And further, that County Council direct Staff to file a Notice of Completion and commence the 30-day public review period as required under the Municipal Class Environmental Assessment (MCEA) process.

REPORT HIGHLIGHTS

- The purpose of this report is to seek County Council's endorsement, in principle, of the draft 2024 W/WW MP which provides a strategic roadmap to service existing needs and accommodate future growth.
- Following the July 12, 2023 Council Resolution to Report No. PW 2023-33, County staff was directed to commence a 75-day informal review period for Area Municipalities to further comment on the draft W/WW MP.
- All feedback received was reviewed and considered in the final draft W/WW MP, which resulted in refinements to the multi-year capital implementation plan as appropriate.



IMPLEMENTATION POINTS

Upon Council approval, staff will proceed to issue and file a Notice of Completion for the final draft 2024 W/WW MP. Printed copies of the final draft W/WW MP report will be available upon request, as well as posted to the Oxford County website and online engagement hub at *Speak Up, Oxford*!.

Following a 30-day public review period and subject to comments received, the 2024 W/WW MP Class Environmental Assessment (Class EA) Study Report can be finalized and filed.

Financial Impact

There are no financial impacts to the 2023 Business Plan and Budget based on the recommendations contained within this report.

Communications

The draft W/WW MP report and appendices were previously posted to *Speak-Up, Oxford!* (https://speakup.oxfordcounty.ca/wwwmp) in July, 2023. In accordance with the resolution to Council Report No. PW 2023-33, dated July 12, 2023, the W/WW MP Executive Summary and a link to the full W/WW MP report on *Speak-Up, Oxford!* were forwarded to all Area Municipal Clerks on July 20, 2023 for distribution to members of their Councils for their information, as well as any appropriate staff, requesting their feedback within 75 days.

Since July 12, 2023 there has been over 920 *new* project webpage visits and 310 additional downloads of the W/WW MP document. Additional formal feedback was received from four of the eight Area Municipalities.

Members of the W/WW MP team provided Council delegations as requested at the following Area Municipalities and fielded several questions from the respective Councils:

- Town of Tillsonburg (August 14th, 2023).
- Township of East-Zorra Tavistock (September 6, 2023).

Report No. PW 2023-41 will be circulated to Area Municipalities for information.

2023-2026 STRATEGIC PLAN

Oxford County Council approved the 2023-2026 Strategic Plan on September 13, 2023. The Plan outlines 39 goals across three strategic pillars that advance Council's vision of "Working together for a healthy, vibrant, and sustainable future." These pillars are: (1) Promoting community vitality, (2) Enhancing environmental sustainability, and (3) Fostering progressive government.

The recommendations in this report supports the following strategic goals.

Strategic Plan Pillars and Goals

Promoting community vitality	Enhancing environmental sustainability	Fostering progressive government
Goal 1.2 – Sustainable infrastructure and development	Goal 2.2 – Preserve and enhance our natural environment	Goal 3.2 – Collaborate with our partners and communities

See: Oxford County 2023-2026 Strategic Plan

DISCUSSION

Background

Report No. PW 2023-33, which included a draft W/WW MP executive summary and *Speak Up, Oxford!* link to the full draft report, was deliberated at Oxford County Council on July 12, 2023. Council subsequently directed County staff to circulate the Report to all Area Municipalities and to commence a 75-day informal review period for Area Municipalities to further comment on the draft W/WW MP.

Comments

Overall, the additional feedback from the Area Municipalities received since the July 12, 2023 Council meeting through the 75-day review period indicated general support for the draft W/WW MP. The water and wastewater system feedback centered around specific system servicing capacities; growth related impacts to infrastructure, infrastructure cost, project funding options, design criteria, drinking water quality and specific scope and requirements of certain projects.

A summary of formal comments received from the Area Municipality Councils are as follows:

• Township of Blandford-Blenheim submitted a Council resolution (Attachment 1) on August 2, 2023 that the 2024 W/WW MP be received as information. They affirmed their support for the proposed drinking water system interconnection between Bright and Plattsville and subsequent decommissioning of Bright Well 5. They requested the interconnection be moved ahead in the project schedule. As a result County staff have rephrased the proposed work from the 2034-2046 horizon to occur in 2032-2033. The Township of Blandford-Blenheim provided a second Council resolution on August 2, 2023 (Attachment 1) moving that the W/WW MP consider an additional 64 acres of property be designated as development and brought back into the Bright settlement boundary. This request was forwarded to Community Planning for future consideration as the scope of the 2024 W/WW MP was limited to service planned growth in accordance with the 2020 Provincial Policy Statement and the County's approved Phase I Comprehensive Review (2020) growth forecast (Report No. PW 2022-47), which did not include such lands.

- Town of Ingersoll submitted a Council resolution (Attachment 2) on September 18, 2023 requesting that the complete data set used for determining the drinking water system and wastewater treatment design criteria in the W/WW MP be provided to the Town. The W/WW MP already describes how the Town of Ingersoll design criteria was established using actual residential and non-residential metered water demands and associated residential and non-residential populations.
- Township of South-West Oxford provided a resolution (Attachment 3) from their Council meeting held September 19, 2023 resolving that the draft W/WW MP be received as information and further that the Township support and endorse the plan as presented to meet the Township's future growth needs until 2046, which includes prioritizing future development within the Township's only current fully serviced village, Mount Elgin, unless servicing becomes critically required by another village.
- Town of Tillsonburg provided a Council Report (Attachment 4) on the draft W/WW MP on September 25, 2023 indicating that the growth forecasts used were not reflective of current/anticipated future growth rates, that project funding opportunities be further explained and that more refined project phasing be provided. During the County staff delegation to Tillsonburg Council on August 14, 2023, it was explained that adjustments to the growth forecast and more detailed project phasing would be provided through the preparation of the 2024 Development Charges Background Study. The range of project funding options was also explained during the same delegation.
- No other formal comments were received from the City of Woodstock, Township of Norwich, Township of East Zorra-Tavistock or Township of Zorra.

All above feedback was reviewed and considered in the update to the original draft 2024 W/WW MP, which resulted in refinements to project phasing within the multi-year capital implementation plan.

The complete final draft W/WW MP Report can be viewed on the W/WW MP project webpage at www.oxfordcounty.ca/wwwmp and is ready for public release.

CONCLUSIONS

Staff appreciated the additional comments received in this 75-day review period and intends to proceed with filing a Study Notice of Completion and commence with the 30-day public review period as required under the MCEA process.

County Council approval of the final draft W/WW MP is required to move forward with projects included in the 2024 budget (also shown in the 2024 W/WW MP implementation plan).

SIGNATURES

Report author:

Original signed by

Don Ford, BA, CMM III, C. Tech. Manager of Water and Wastewater Services

Departmental approval:

Original signed by

David Simpson, P.Eng., PMP Director of Public Works

Approved for submission:

Original signed by

Benjamin R. Addley Chief Administrative Officer

ATTACHMENTS

Attachment 1: Council Resolutions: Township of Blandford-Blenheim Attachment 2: Council Resolution: Town of Ingersoll Attachment 3: Council Resolution: Township of South-West Oxford Attachment 4: Council Report: Town of Tillsonburg

Report No. PW 2023-41 Attachment No. 1

Township of Blandford-Blenheim - Council Resolution

Resolution No. 10

Date: August 2, 2023

Moved by <u>ManeyDermand</u> Seconded by <u>DBmb</u>

That the 2024 Water and Wastewater Master Plan Study from the County of Oxford be received; and,

Whereas the study includes a recommendation that the water systems in Bright and Plattsville be interconnected and that well 5 be decommissioned within the timeframe of 2034 – 2046; and,

Whereas there has been a history of issues with water supply from wells in Bright in the past and currently well 5 is the sole source of water for Bright,

Be It Resolved that comment be sent to the County of Oxford that the Council of the Township of Blandford-Blenheim requests that interconnection project between the Plattsville and Bright systems be moved ahead in the schedule to ensure there is an adequate and safe supply of water for the community of Bright

Township of Blandford-Blenheim - Council Resolution

Agenda Item 9. a. i. Resolution No. $-\frac{1}{2}$

August 2, 2023

Moved by <u>*P*</u> <u>Bur</u> Seconded by <u>Maning Demud</u>

Be it hereby resolved that the correspondence from Kim and Dave Piggott be forwarded to Oxford County Council; and,

That the Council of the Township of Blandford-Blenheim advise the Council of the County of Oxford that they support the request of Kim and Dave Piggott to designate 64.18 acres of their property as Development and to bring it back into the Bright settlement boundary area; and,

That Council requests that this property be taken into consideration during the 2024 Oxford County Water and Wastewater Master Plan study.



SENT VIA EMAIL

September 18, 2023

Chloe Senior, Clerk Oxford County

Dear Ms. Senior,

Re: Oxford County Water and Wastewater Master Plan

Please be advised that at their regular meeting on September 11, 2023, Council of the Corporation of the Town of Ingersoll passed the following resolution:

Moved by Councillor Hutson; seconded by Councillor Van Kooten-Bossence

THAT the Council of the Corporation of the Town of Ingersoll receive staff report OP-017-23 as information;

AND THAT the Town of Ingersoll Council request that Oxford County Council provide complete included data used and results thereof for the recommended Drinking Water System Design Criteria established for the Water Wastewater Master Plan;

AND THAT the Town of Ingersoll Council request that Oxford County Council provide completed included data used and results thereof for the recommended Wastewater Treatment System Design Criteria for the Water Wastewater Master Plan.

CARRIED

Please do not hesitate to contact me if you have any questions or concerns.

Regards,

Danielle Richard Town Clerk

cc: Don Ford, Manager, Water and Wastewater Services, Oxford County dford@oxfordcounty.ca Report No. PW 2023-41 Attachment No. 3



STAFF REPORT

Report No: CL 44-2023 Meeting Date: 19 Sep 2023 Department: Clerk's Department

SWOX Housing Opportunities Committee Resolution: Oxford County draft Water/Wastewater Master Plan

Recommendation:

RESOLVED that the Council of the Township of South-West Oxford receive report CL 44-2023: SWOX Housing Opportunities Committee Resolution: Oxford County draft Water/Wastewater Master Plan as information;

AND FURTHER THAT the Council of the Township of South-West Oxford support and endorse Oxford County's 2024 draft Water and Wastewater Master Plan as presented to meet the Township's future growth needs until 2046, which includes prioritizing future development within the Township's only current fully serviced village, Mount Elgin, unless servicing becomes critically required by another village.

Purpose:

The purpose of this report is to bring forward a recommendation from the SWOX Housing Opportunities Committees in relation the County of Oxford 2024 draft Water and Wastewater Master Plan.

Background:

At the County Council meeting of July 12th, 2023, County Council received report PW 2023-33 in relation to the County's draft 2024 Water and Wastewater Master Plan. This report identified water and wastewater infrastructure requirements to accommodate projected population and employment growth to 2046 in accordance with the 2020 Provincial Policy Statement and the County's approved Phase I comprehensive review (2020), while ensuring service continuity to existing serviced settlement areas. **The County intends to focus future growth and development primarily in designated community settlement areas.** At this meeting, County Council passed the following resolution:

RESOLVED that the recommendations contained in Report No. PW 2023-33, titled "2024 Water and Wastewater Master Plan", be received as information;

AND FURTHER THAT the draft report be circulated to area municipalities requesting their feedback within 75 days (September 25, 2023);

AND FURTHER THAT the draft report be posted to Speak Up Oxford for feedback from the public for 75 days (September 25, 2023);

AND FURTHER THAT all comments received be provided in a report for council's consideration when considering the draft report.

Drinking water system projects anticipated over this period of time within South-West Oxford include:

- Mount Elgin DWS Water Treatment Plant Optimization, Ingersoll to Mount Elgin Water System Interconnection;
- Beachville DWS New Well Supply and Water Storage;
- Brownsville DWS Water Quality Improvements, Water Treatment Plant Filtration Addition;
- Dereham Centre DWS Water Infrastructure Refurbishment.

Wastewater projects anticipated over this period of time within South-West Oxford include:

Mount Elgin WWS – Wastewater Treatment Plant Capacity Expansion (Phase 3 / 4), Ingersoll to Mount Elgin Wastewater System Interconnection (Forcemain).

At the August 8th, 2023 Township of South-West Oxford Council meeting, this matter was referred to the SWOX Housing Opportunities Committee for discussion and consideration. Mayor David Mayberry advised Council that the County is not planning to service any additional villages other than those that are already serviced. It was noted that South-West Oxford is the only municipality within the County that has only one fully serviced village (Mount Elgin). Members of Council were encouraged to give consideration to future servicing needs within the Township so that comments may be provided to the County by the September 25th, 2023 deadline.

Discussion:

The SWOX Housing Opportunities Committee considered this matter at their meeting held on September 5th, 2023. The Committee reviewed the draft Water/Wastewater Master Plan, which recommends that priority be given to improving existing servicing, and not expanding servicing to other settlement areas in the County. Oxford County has requested comments from area municipalities by September 25th, 2023.

Discussion took place regarding the advantages and disadvantages of servicing another village within the Township. Currently, Mount Elgin is the only fully serviced village in South-West Oxford, and the water and wastewater system in place may be sufficient for many years to come. If needed, water and wastewater services may be expanded between Ingersoll and Mount Elgin. The Committee questioned the need for servicing: They considered whether servicing is needed for growth and development? Does the Township want more homes or need to house more people for sustainability? Should servicing take place for environmental protection purposes? In considering one of the goals of the committee - to address affordable housing needs, it was noted that without servicing and future development, the Township will have little impact in relation to higher density development locally. The Committee discussed that in order to provide more affordable housing, higher density development is likely required. Higher density development requires servicing - this is consistent with the County's Official Plan and goals in relation to the preservation of agricultural land. Further discussion took place regarding the potential advantages and disadvantages of servicing another village within the Township. In summary, comments were noted as follows:

One Serviced Village

Advantages:

- Lessen the impact on prime agricultural land lower quality soil in northeastern quadrant of Mount Elgin;
- Township may focus on one village "hub" with a mix of housing, trails, parks, commercial development;
- Central location prevents potential future annexation by larger urban areas;
- Prevents and limits growth of other settlement areas this is a priority for many residents in combination with the preservation of agricultural land.

Disadvantages:

- Cost to expand servicing (extension between Mount Elgin and Ingersoll) projected 2034 to 2046 in excess of \$10 million;
- Residents in other communities may feel that Mount Elgin is the priority/favoured.

Multiple Serviced Villages

Advantages:

- Growth, more houses and living spaces throughout the community as a whole;
- Positive environmental impact/groundwater protection (replacement of failing septic systems);
- Cheaper to construct now versus in the future;
- Enables higher density in multiple areas throughout the community.

Disadvantages:

- More negative impact on prime agricultural land;
- Serviced rural land may expand into other urban areas (servicing may be done more efficiently by surrounding urban municipalities)
- Many existing villages to not have the capacity to grow without servicing.

Overall, in considering the potential advantages and disadvantages, the Committee expressed support for the continued growth of Mount Elgin to limit the loss of prime agricultural land to development and to continue to have influence with respect to the need for higher density housing to address the need for affordable housing locally.

The SWOX Housing Opportunities Committee passed the following recommendation:

RESOLVED that the SWOX Housing Opportunities Committee recommend that the Council of the Township of South-West Oxford support and endorse Oxford County's 2024 draft Water and Wastewater Master Plan;

AND FURTHER THAT the SWOX Housing Opportunities Committee endorse the recommended servicing strategies outlined in the County's draft Water and Wastewater Master Plan to meet the Township's growth needs going forward to 2046, which includes focusing any future development within the Township's current serviced village (Mount Elgin), unless servicing becomes critically required by another village.

Staff is seeking Council's support of the Committee's recommendation and direction from Council in relation to the comments to be sent to Oxford County Council from the Township with respect to the 2024 draft Water and Wastewater Master Plan.

Strategic Plan:

The Township will promote quality of life by protecting and enhancing our natural environment and create a sense of well-being, belonging and active engagement in the community.

The Township will maintain quality of services by demonstrating corporate and community leadership to enhance quality of life and to strive for excellence in stewardship of all resources.

The Township will support economic development by empowering the community to live, work and thrive in a changing environment.

Financial Implications:

There are no current financial implications to the Township in relation to this matter.

Julie Middleton Approved by Chief Administrative Officer Mary Ellen Greb



Subject: 2024 Water and Wastewater Master Plan - County of Oxford Review Report Number: OPD 23-39 Department: Operations and Development Department Submitted by: Jonathon Graham, Director of Operations and Development Meeting Type: Council Meeting Meeting Date: Monday, September 25, 2023

RECOMMENDATION

- A. THAT report titled OPD 23-39 Water and Wastewater Master Plan County of Oxford Review (*by the Town of Tillsonburg*) be received as information; and
- B. THAT staff be directed to issue comments as identified for public record through the County of Oxford's Water and Wastewater Master Plan public commentary process for official record.

BACKGROUND

At the Town Council's regular meeting on August 14, 2023, the Director of Public Works from Oxford County, presented to Town Council a <u>DRAFT 2024 Water and Wastewater</u> <u>Master Plan</u> as prepared by R.V. Anderson Associates Limited; subsequently, Town Council passed the following resolution:

Resolution # 2023-324

Moved By: Councillor Spencer Seconded By: Councillor Rosehart

- A. THAT Council receives the presentation from David Simpson, regarding the 2024 Water and Wastewater Master Plan, as information; and
- B. THAT the Director of Development and Operations be directed to prepare a report regarding Oxford County's Water and Wastewater Masterplan and present to Council for consideration

Carried

This report is intended to summarize the County of Oxford's Water and Wastewater Servicing Master Plan (W/WW MP). The W/WW MP will set out the long-term water and wastewater servicing strategies to support existing needs and accommodate future growth in population through to the year 2046. The plan is intended to identify infrastructure improvements that will support the long-term growth of Oxford County.

Generally the W/WW MP consist of:

- A comprehensive background review of water and wastewater services, including water distribution, wastewater collection, treatment facilities, storage towers, etc...;
- A sensitivity analysis of current water and wastewater needs and projected changes to population, development, social and economic conditions, economy, facilities, and land use and planning initiatives;
- A summary of public feedback;
- A review of best practices; and,
- List of recommendations and proposals to guide the future water and wastewater services as weighted against population growth.

Furthermore, the W/WW MP has been undertaken consistent with Ontario Regulations as a Municipal Class Environmental Assessment. The recommended approach of the W/WW MP includes a portfolio of water distribution and wastewater collections projects and programs that aim to service future and assets lifecycle renewal demands in a methodical manner aligning with current Asset Management policie.

Of special note, standard municipal practices is to wholesomely review/update a W/WW MP on a five (5) year rotation.

DISCUSSION

The subject County W/WW MP plan provides costs for capital works and programs to support future growth into 2046. In this plan, the Town of Tillsonburg has a population projections of 23,890 by 2046 as per the following *Table 3.1: Forecasted Residential*

Municipality	Estimated Annual Population Growth *					2021-2046	
Municipality	2021**	2026	2031	2036	2041	2046	2021-2040
Woodstock	47,965	51,825	55,815	59,825	63,595	67,295	19,330
Tillsonburg	19,120	20,020	20,980	21,980	22,960	23,890	4,770
Ingersoll	14,065	14,955	15,915	16,895	17,855	18,785	4,720
Blandford-Blenheim	7,770	8,090	8,440	8,810	9,190	9,550	1,780
East Zorra-Tavistock	8,050	8,530	9,040	9,560	10,050	10,510	2,460
Norwich	11,450	11,920	12,420	12,960	13,490	13,990	2,540
South-West Oxford	7,785	8,025	8,295	8,555	8,765	8,975	1,190
Zorra	8,860	9,110	9,370	9,650	9,950	10,240	1,380
Oxford County	125,065	132,475	140,275	148,235	155,855	163,235	38,170

Population Growth:

* Values may not add precisely due to rounding. Where a Township contains more than one fully serviced settlement area, assumptions regarding the allocation of the Township's total forecasted growth to each settlement will also be used to inform the study findings for each system.
** 2021 Census Population with preliminary correction for undercount of approximately 3%

WATER DISTRIBUTION SYSTEM IMPROVEMENTS TO EXISTING SYSTEM NEW FACILITIES AND WATERMAINS:

The capital project/improvements strategy includes a series of new watermains to provide appropriate pressures storage and specific well rehabilitation. It recommends improvements to existing pumping infrastructure and replacement of storage elements at the end of their service life. Of note, Town Council may wish to review and consider *Appendix ES-1 – Water Projects Identified*, pages *ES-19* in this regard. These identified capital project/improvements will be subject to further studies such as but not limited to, Detailed Engineering Design, Environmental Assessments including more consultation with the public when required, etc...

WASTEWATER COLLECTION SYSTEM IMPROVEMENTS TO EXISTING SYSTEM – NEW TRUNK SEWERS AND STRATEGIC FLOW DIVERSIONS:

The capital project/improvements strategy includes a series of new sewers as proposed to alleviate existing capacity issues including the identified Phase 2 improvements for the Town's Pollution Control Plant. Of note, Town Council may wish to review and consider *Appendix ES-2* – *Wastewater Projects Identified*, pages *ES-41* in this regard. The study also included a review of inflow and infiltration, or I&I, practices and programs. Again, these identified capital project/improvements will be subject to further studies and processes.

PUBLIC/TOWN COMMENTS AND CONCERNS

Through the review of the County of Oxford's Water and Wastewater Servicing Master Plan, Town Staff is seeking Council's direction to add the following comments to the Public Record:

- 1. Population trend and sensitivity analysis:
 - In light of recently received and/or approved Draft Plans (both at the County and Town level) staff estimates that there could be a total of 2,173 to 2,920 additional residential units constructed (+/-).
 - Hereafter, if we carry a fair estimate of 2.4 people per unit, Tillsonburg estimated increased population could be considered between 5,200-7,000
 - Although there are many influencing factors towards the development and construction of these new proposed unit, this analysis suggest that Tillosnburg is in a state of accelerated growth.
 - This is especially critical in consideration to the deflated population value as compared to Tillsonburg's 2021 Census Population vs. actual population.
 - ✓ Therefore, in the cross examination of *Table 3.1: Forecasted Residential Population Growth*, Tillsonburg could/would out pace the current forecasted; it is strongly advised that this impact should be addressed and incorporated into the appendix projects identified.
- 2. Upsizing and contribution through current developments:
 - Although the report identifies regional and servicing upsizing the correlation of Development Charges towards "development/developer(s) upsizing" could be explained and/or refined to consider alternative funding arrangements.
- The appendixes included provide a conceptual roadmap of identified infrastructure needs; however, a refined schedule/roadmap should be considered to ensure timely and appropriate lead times are incorporated to complete official processes especially in the periods of 2024-2033 (i.e. Environmental Approvals, Detail Design, Tendering, etc.)

CONSULTATION

Oxford County's Director of Public Works, County Water/Wastewater Staff, Manager of Engineering, Manager of Public Works, external stakeholders (i.e. developers and consultants)

FINANCIAL IMPACT/FUNDING SOURCE

Localized to the Town of Tillsonburg's cost associated to meet the populations demand are estimated at a combined total of \$74.9 million until 2046. Where divided into respective services areas; water is estimated at \$38.2 million and wastewater at \$36.7 million. To reaffirm, the funds identified above are subject to the water/wastewater user rates, development charges and financing managed at the County of Oxford upper tier level.

Furthermore, future capital project/improvements will be incorporated into the County's multi-year budget and as per current Town practices, in ensuring a collaborative cost sharing philosophy (in striving for value added), the Town leads and complements services improvements/capital project subject to our local multi-year budget practices.

Generally, future (and current) capital project/improvements will be prioritized based on fiscal and human constraints, and in alignment with all stakeholder's organizational priorities, which means the actual budgeting may extend beyond 2046 and/or priorities may shift. The majority of the projects recommended in the W/WW MP include a growth related component and are included in the ongoing Development Charges Background Study to be funded by future development charges (DCs) and will be considered in future.

Any shortfall in DC funding for growth projects and non-growth portion of capital projects as well as operating costs would be rate funded through the Water and Wastewater user rates (i.e. impacts of Bill 23's scheduled/milestone rate increase). The rate model is currently being reviewed and once complete, will be used to forecast the long-term rate impact of the W/WW MP and provided to County Council; Town staff will also be requesting a delegation in similar fashion to be presented to Town Council in this regard.

CORPORATE GOALS

How does this report support the corporate goals identified in the Community Strategic Plan?

- \Box Lifestyle and amenities
- ⊠ Customer service, communication and engagement
- □ Business attraction, retention and expansion
- □ Community growth
- □ Connectivity and transportation
- □ Not Applicable

OPD 23-39 - 2024 Water & Wastewater Master Plan - County of Oxford Review

Does this report relate to a specific strategic direction or project identified in the Community Strategic Plan? Please indicate section number and/or any priority projects identified in the plan.

Goal – The Town of Tillsonburg will strive for excellence and accountability in government, providing effective and efficient services, information, and opportunities to shape municipal initiatives.

Strategic Direction – Explore opportunities for service efficiencies in partnership with adjacent municipalities.

Priority Project – Short Term - Municipal service review

ATTACHMENTS

Appendix A – DRAFT 2024 Water and Wastewater Master Plan - County of Oxford

APPENDIX 2.2.6

Notice of Completion



John Tyrrell

From:	Samya Chams
Sent:	November 30, 2023 12:31 PM
То:	eanotification.swregion@ontario.ca; MEA.Notices.EAAB@ontario.ca;
	mike.harris@pc.ola.org; Smith, Mark (MECP; Stephen.Dunn@ontario.ca;
	angela.stroyberg@ontario.ca; Jim.W.Miller@ontario.ca; Mark.Badali1@ontario.ca;
	rob.wrigley@ontario.ca
Cc:	Mackenzie Schultz; dford@oxfordcounty.ca; John Tyrrell
Subject:	Oxford Water and Wastewater Master Plan - Updated Notice of Master Plan
Attachments:	NOTICE WWWMP Notice of Completion 20231115.pdf
Categories:	Filed by Newforma

Good afternoon,

On behalf of Oxford County, please find attached the updated Notice of Master Plan for the Oxford County Water and Wastewater Master Plan.

Thank you,

Samya



Samya Chams, B.A (she/her) ADMINISTRATIVE ASSISTANT/ PROJECT SUPPORT COORDINATOR

t 519 681 9916 ext. 5021

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2







Notice of Master Plan

Oxford County Water and Wastewater Master Plan

Oxford County has completed the 2024 Water and Wastewater Master Plan (W/WW MP) Class Environmental Assessment (EA) Study. The W/WW MP has identified the preferred water and wastewater servicing solutions to meet Oxford's growth needs to 2046 as well as provide effective ongoing continuity to existing serviced settlements.

Environmental Assessment process

The Class EA Study was undertaken in accordance with the master planning and design process of the Municipal Class Environmental Assessment (MCEA, 2023), approved under the Ontario *Environmental Assessment Act.* The 2024 W/WW MP followed Approach 1 of the MCEA process, which fulfills the requirements for Exempt (Schedule A and A+) projects and provides a basis for future investigations for Schedule B and C projects (where additional project specific investigations may be required to satisfy additional MCEA requirements before implementation). A W/WW MP report document has been prepared that details the planning and decision-making process followed during the Class EA Study.

Public comment period

By this notice, the W/WW MP report is being placed online on the public record for a **30-day review period starting November 1 and ending November 30, 2023**. The W/WW MP is available for review at www.oxfordcounty.ca/wwwmp.

Written comments will be accepted until **November 30, 2023.** All comments and concerns should be sent directly to either one of the following contacts:

Don Ford, CMM III, C. Tech. Manager, Water and Wastewater Oxford County dford@oxfordcounty.ca | 1-800-755-0394, ext. 3191

John Tyrrell, MSc (Eng.), P.Eng Senior Project Manager R.V. Anderson Associates Limited jtyrrell@rvanderson.com | 519-681-9916, ext. 5308

The Minister of the Environment, Conservation and Parks can only issue an order with respect to Schedule B or C projects identified in the Master Plan requiring a higher level of study, or that conditions be imposed, only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. The Minister cannot make an order with respect to Exempt projects identified in the Master Plan.

Requests must include your contact information and be received by November 30, 2023. Requests should specify what kind of order is being requested (request for conditions or a request for an individual/ comprehensive environmental assessment); how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights; and any information in support of the statements in the request. This will ensure that the Ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

Minister, Environment, Conservation and Parks Ministry of Environment, Conservation and Parks 777 Bay Street, 5th Floor Toronto, ON M7A 2J3 Minister.mecp@ontario.ca

AND

Director, Environmental Assessment Branch Ministry of the Environment, Conservation and Parks 135 St. Clair Ave. W, 1st Floor Toronto, ON M4V 1P5 EABDirector@ontario.ca

Requests should also be copied to Oxford County through the project contacts.

For more information on requests for orders under Section 16 of the *Environmental Assessment Act* visit: https://www.ontario.ca/page/class-environmentalassessments-section-16-order

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

> Issued November 1, 2023 Re-issued November 15, 2023



oxfordcounty.ca

APPENDIX 2.3 Indigenous Consultation



APPENDIX 2.3.1 Letters, Response Survey and Correspondence





PUBLIC WORKS

21 Reeve Street, PO Box 1614 Woodstock, ON N4S 7Y3 519.539.9800 I 1.800.755.0394 oxfordcounty.ca

March 14, 2021

Aamjiwnaang First Nation 978 Tashmoo Avenue Sarnia, ON N7T 7H5

RE: Oxford County Water and Wastewater Master Plan Municipal Class Environmental Assessment Study – Master Plan Notice of Study Commencement

Dear Chief Chris Plain,

Oxford County (the County) has retained R.V. Anderson and Associates (RVA) to undertake the development of a Water and Wastewater Master Plan (Master Plan). The Master Plan will provide the County with long-term water and wastewater servicing strategies to accommodate future projected population and employment growth to the year 2046 as well as provide effective on-going servicing continuity for existing settlement areas across Oxford County, as appropriate.

The Master Plan will be prepared as per Master Plan Approach #1 per the Municipal Engineers Association (MEA) *Municipal Class Environmental Assessment* document (October 2000, amended 2007, 2011 & 2015), which is approved under the Ontario *Environmental Assessment Act*. The intent of the Master Plan consultation will be to provide County staff with sufficient understanding of the comments and concerns provided by agencies, Indigenous communities, and interested members of the public to properly undertake future planned projects.

The key outcomes of the Master Plan will:

- Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046;
- Develop water and wastewater strategies that are consistent with and conform to Provincial policies/legislation and support the County's Official Plan and strategic initiatives;
- Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure; and
- Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability.

Consultation for this Class EA Study will comply with the mandatory guidelines developed by the MEA for First Nations and Aboriginal Peoples consultation as detailed in its Municipal Class Environment Assessment (EA) document. The County also recognizes and follows the Ministry of Environment, Conservation and Parks (MECP) guidance protocol (Code of Practice for Consultation in Ontario's Environmental Assessment Process) for Aboriginal consultation under the Ontario Environmental Assessment Act.



Accordingly, the County willingly accepts its responsibility to conduct *interest-based consultation* with Indigenous Communities as part of the Environmental Assessment process. The County is committed to the open flow of information and to ensuring that there are meaningful opportunities for Aamjiwnaang First Nation to provide input during this Class EA Study. As our neighbours in our community, we wish to build a strong and open relationship with your Nation.

In order to initiate engagement with this Study, we are notifying you of the project (see enclosed Notice of Commencement) in hopes that you can assist our project team in determining if your community may hold an interest in this project. For your convenience, we have enclosed a "Project Response Form" for you to review, complete and submit to the County's project manager as a first consultation step. Specifically, we are seeking your input on:

- Any preliminary comments or concerns that your community has on the proposed project;
- The level of interest in the project from the community for further engagement; and
- The best methods to communicate with your community.

Your comments are welcome and will be taken into consideration throughout this Class EA Study. Our project team would be pleased to meet with you at any time during the Study to answer your questions or respond to any concerns you may have.

Should potential adverse impacts of the project undertakings on asserted or established Aboriginal or treaty rights be anticipated or determined to exist, the Crown has a legal *rights-based duty to consult* Indigenous Communities. Where the Crown's rights-based duty to consult process may be triggered, the MECP Environmental Approvals Branch will assess the extent of any Crown duty to consult in such circumstances. In such cases, additional procedural aspects of the consultation process may be delegated from the MECP Environmental Approvals Branch to Oxford County (the Study proponent).

For project updates please visit Speak Up Oxford at https://speakup.oxfordcounty.ca/wwwmp

Thank you in advance for your participation. Should you have any questions or require additional information, please contact the undersigned by phone 519-539-9800, ext. 3111, or email tpawlick@oxfordcounty.ca.

Sincerely. starie Pawlik

Travis Pawlick, P.Eng. Supervisor of Water and Wastewater Technical Services

- Encl. Project Response Form and Notice of Study Commencement
- cc: John Tyrrell, M.Sc (Eng.), P.Eng., Project Manager, R.V. Anderson Associates Limited Mark Badali, Environmental Resource Planner & EA Coordinator, MECP





Project Response Form

Notice of Study Commencement

2024 Oxford Water and Wastewater Master Plan

Class Environmental Assessment Study

Name:	(Please Print)	
Phone No:		°
Signed:		
Date:		

If there is a different contact for your organization that we should follow-up with, please let us know:		
Name:		
Address:		
Phone:		
Email:		

The study is in its initial stages and information can be provided as it progresses.

Pleas	e assist us in identifying your interests:	YES	NO
1.	Do you wish to participate in this project?		
2.	If the answer to Question 1 is "no", would you like to be removed from the contact list?		



PUBLIC WORKS 21 Reeve Street, PO Box 1614 Woodstock, ON N4S 7Y3 519.539.9800 I 1.800.755.0394 oxfordcounty.ca



Pleas	e assist us in identifying your interests:	YES	NO
3.	Are there areas of cultural significance to your community in close proximity to the study area that Oxford staff should be aware of? (if yes, please provide details below)		
4.	Is the project within an area subject to a land claim?		
5.	Would your community / organization like to meet with Oxford staff to discuss this study?		

Is there any additional information your community requires from the Oxford County in order to better understand the study and to identify if / how the project may adversely impact Aboriginal and / or Treat rights of your community?

Please identify any initial comments your community or organization may have at this time.



PUBLIC WORKS 21 Reeve Street, PO Box 1614 Woodstock, ON N4S 7Y3 519.539.9800 I 1.800.755.0394 oxfordcounty.ca



Please identify any initial comments your community or organization may have at this time.

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Please return this completed to either:

Oxford County Travis Pawlick, P. Eng. Supervisor, Water and Wastewater Tel: 1.800.755.0394x3111 E-mail: <u>tpawlick@oxfordcounty.ca</u> R.V. Anderson Associates Limited John Tyrrell, M.Sc. (Eng.), P.Eng. Senior Project Manager Tel: 519.681.9916x5038 E-mail: jtyrrell@rvanderson.com



Notice of Study Commencement Oxford County Water and Wastewater Master Plan

Oxford County has initiated the development of a Water and Wastewater Master Plan (W/WW MP) to provide the County with strategic long-term water and wastewater servicing strategies to support existing servicing needs and accommodate further projected population and employment growth to the year 2046.

What is the Water and Wastewater Master Plan?

The W/WW MP is a long-term strategic planning document that lays out the County's vision and goals for its water and wastewater systems to 2046. The W/WW MP will:

- Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046;
- Develop water and wastewater strategies that are consistent with and conform to Provincial policies/ legislation and support the County's Official Plan and strategic initiatives;
- Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure;
- Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability.

R.V. Anderson Associates Limited has been retained by Oxford County to complete the W/WW MP.

The W/WW MP is being conducted in accordance with the Master Plan requirements of Phases 1 and 2 of the *Municipal Class Environmental Assessment* (2000, as amended in 2007, 2011 & 2015), approved under the *Ontario Environmental Assessment Act.*

We want to hear from you

As the Project Team reviews and updates the W/WW MP, it is important to engage with the public to identify the community's servicing needs and priorities. Members of the public are invited and encouraged to comment on the project at any time during the Study. Those interested in this study are invited to participate by:

- Visiting the study website at www.speakup.oxfordcounty.ca/wwwmp
- Subscribing to the study mailing list to receive notices of future consultation opportunities. To be added to the mailing list, contact one of the key contacts below.
- Attending future Public Consultation Centres (PCC). PCCs will be held at various locations around the County. More details about the PCCs will be provided as they become available
- Providing your comments through the study website on Speak Up, Oxford! at www.speakup.oxfordcounty.ca/wwwmp, or submit to the key study contacts listed below.

A draft W/WW MP Study Report will be prepared and made available for public review and comment prior to its finalization.

Contacts for information

Travis Pawlick, P.Eng. Supervisor, Water and Wastewater Oxford County 519-539-9800 x3111 | tpawlick@oxfordcounty.ca

John Tyrrell, MSc (Eng.), P.Eng Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 | jtyrrell@rvanderson.com

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

Posted March 14, 2022



oxfordcounty.ca

Samya Chams

From:	Tanya Hill-Montour <tanyahill-montour@sixnations.ca></tanyahill-montour@sixnations.ca>	
Sent:	March 30, 2022 10:03 AM	
То:	Tisha Doucette; Dawn Russell	
Cc:	Samya Chams; John Tyrrell; tpawlick@oxfordcounty.ca; mschultz@oxfordcounty.ca	
Subject:	RE: Oxford County Water and Wastewater Master Plan - Notice of Study	
	Commencement	

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate before Replying or Clicking on any links

Good Morning Tisha,

I have cc'd Dawn Russell, Dawn coordinates meetings for the team and she will be happy to assist.

Have a great day!!

Kind Regards,

Tanya j. Hill-Montour B.A Hons. Six Nations of the Grand River - Archaeology Supervisor. c.226.388.0665 e. tanyahill-montour@sixnations.ca

From: Tisha Doucette [mailto:TDoucette@rvanderson.com] Sent: March 29, 2022 4:35 PM To: Tanya Hill-Montour <tanyahill-montour@sixnations.ca> Cc: Samya Chams <schams@rvanderson.com>; John Tyrrell <JTyrrell@rvanderson.com>; tpawlick@oxfordcounty.ca; mschultz@oxfordcounty.ca Subject: RE: Oxford County Water and Wastewater Master Plan - Notice of Study Commencement

Hi Tanya,

We're also looking forward to a relationship building meeting. We will plan to schedule one sometime in the month of June.

Kind regards, Tisha



Tisha Doucette, B.Sc., EP, ENV SP (she/her) ASSOCIATE, SENIOR PLANNING ECOLOGIST

t 519 681 9916 ext. 5035 | m 519-868-1658

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2



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From: Tanya Hill-Montour <<u>tanyahill-montour@sixnations.ca</u>> Sent: March 24, 2022 10:11 AM To: John Tyrrell <<u>JTyrrell@rvanderson.com</u>> Cc: Tisha Doucette <<u>TDoucette@rvanderson.com</u>>; Samya Chams <<u>schams@rvanderson.com</u>>; Mackenzie Schultz <<u>mschultz@oxfordcounty.ca</u>>; Travis Pawlick <<u>tpawlick@oxfordcounty.ca</u>> Subject: RE: Oxford County Water and Wastewater Master Plan - Notice of Study Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate <u>before</u> Replying or Clicking on any links

Thank you John,

Much appreciated! Also, looking forward to at some point having a relationship building meeting.

Kind Regards,

Tanya j. Hill-Montour B.A Hons. Six Nations of the Grand River - Archaeology Supervisor. c.226.388.0665 e. <u>tanyahill-montour@sixnations.ca</u>

From: John Tyrrell [mailto:JTyrrell@rvanderson.com] Sent: March 18, 2022 2:24 PM To: Tanya Hill-Montour <<u>tanyahill-montour@sixnations.ca</u>> Cc: Tisha Doucette <<u>TDoucette@rvanderson.com</u>>; Samya Chams <<u>schams@rvanderson.com</u>>; Mackenzie Schultz <<u>mschultz@oxfordcounty.ca</u>>; Travis Pawlick <<u>tpawlick@oxfordcounty.ca</u>> Subject: RE: Oxford County Water and Wastewater Master Plan - Notice of Study Commencement

Hi Tanya,

Tisha is on vacation today, so I am responding on her behalf.

We are in the early stages of the development of the Water and Wastewater Master Plan, so there is nothing further to share currently. We will be scheduling a Public Consultation Centre (PCC) in the next few months; at which time we will have some additional information that we can provide.

Please keep in mind that a Master Plan is a broad level assessment that will require more detailed investigations at the project-specific level including an assessment of the potential location and footprint of proposed infrastructure. The Master Plan will become the basis for, and be used in support of, future investigations for specific Schedule B and C projects that are identified within the Master Plan. This would also be the time that archaeological assessments or a management plan would take place.

For some additional background, in August 2016, Oxford County released a draft Oxford Natural Heritage System Study (ONHSS). The 2016 ONHSS is still relevant in terms of a County-wide natural heritage assessment; however, the County does intend to update the document in 2022. The County has not completed any County-wide Phase 1 Archeological Assessments or Cultural Heritage Desktop Reports; however, area specific reports have been part of recent Secondary Planning reviews (i.e., various Woodstock expansions, Tavistock and Innerkip Secondary Plan, upcoming Ingersoll Secondary Plan, etc.).

I hope that this provides you with the information that you require at this time.

Take care,



From: Tanya Hill-Montour <<u>tanyahill-montour@sixnations.ca</u>> Sent: March 15, 2022 6:06 AM To: Tisha Doucette <<u>TDoucette@rvanderson.com</u>> Cc: <u>rlinn@sixnations.ca</u>; <u>tpawlick@oxfordcounty.ca</u>; John Tyrrell <<u>JTyrrell@rvanderson.com</u>>; Samya Chams <<u>schams@rvanderson.com</u>>; <u>Mark.Badali1@ontario.ca</u> Subject: Re: Oxford County Water and Wastewater Master Plan - Notice of Study Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate <u>before</u> Replying or Clicking on any links

Good Morning TIsha,

Hope you been keeping well!

I have an interest in building a relationship with our community. I do have a question, is there a Archaeological Management Plan that you can share? Or a plan in development?

Looking forward in conversations, have a lovely day!

Kind Regards,

Tanya j. Hill-Montour B.A Hons. Six Nations of the Grand River - Archaeology Supervisor. c.226.388.0665 e. <u>tanyahill-montour@sixnations.ca</u>

On Mar 14, 2022, at 3:51 PM, Tisha Doucette <<u>TDoucette@rvanderson.com</u>> wrote:

Good afternoon Robbin,

Oxford County has initiated the process of developing a Water and Wastewater Master Plan (W/WW MP). The W/WW MP will provide the County with strategic long-term water and wastewater servicing strategies that support existing needs and accommodate further growth in population and employment through to the year 2046.

Oxford County values the participation of all stakeholders and Indigenous communities and wishes to ensure that your community's interests and concerns are taken into consideration and addressed in a timely manner. If you would like further information on the project, or have any questions or comments please contact either one of the project managers identified in the attached Notice and/or complete the attached Project Response Form.

Kind regards, Tisha

Tisha Doucette, B.Sc., EP, ENV SP (she/her) ASSOCIATE, SENIOR PLANNING ECOLOGIST

t 519 681 9916 ext. 5035 | m 519-868-1658

a 557 Southdale Road East, Suite 200, London, ON N6E 1A2

APPENDIX 2.3.2 Relationship Building Meeting





Growing stronger together

Water and Wastewater Master Plan

June 2nd, 2022 Time: 2:00 p.m.

arva

R.V. Anderson Associates Limited engineering • environment • infrastructure



Purpose of Meeting - Agenda

- Introduce you to the 2024 Water and Wastewater Master Plan (W/WW MP)
- Provide an overview of the study process
- · Identify the issues and reason for this study
- Summarize the current state of the County's water and wastewater system

We want to hear from you!

- Do you have any observations that you would like to share?
- Do you have any questions regarding the study?
- Do you have any questions regarding the Master Plan process?

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Oxford County

Name	Title/Role
Travis Pawlick	Supervisor, Water and Wastewater Technical Services
Don Ford	Manager, Water and Wastewater Services
Jennifer Lavallee	Manager, Capital Planning
Paul Michiels	Manager, Policy Planning
Reuben Davis	Supervisor, Engineering Services
Ryan Vink	Project Engineer
Melissa Abercrombie	Manager, Engineering Services
Mackenzie Schultz Jennifer White	Coordinator, Water & Wastewater Programs
David Simpson	Director, Public Works

R.V. Anderson Associates Limited

Name	Title/Role
John Tyrrell	Associate, Regional Manager, Senior Project Manager
Tisha Doucette	Associate, Planning Ecologist
Darika Sharma	Project Designer
Samya Chams	Administrative Assistant/ Project Support Coordinator

Problem/Opportunity Statement

To identify preferred water and wastewater servicing strategies to meet Oxford's growth needs to 2046 as well as provide effective on-going continuity to existing serviced settlement areas across Oxford County as appropriate.





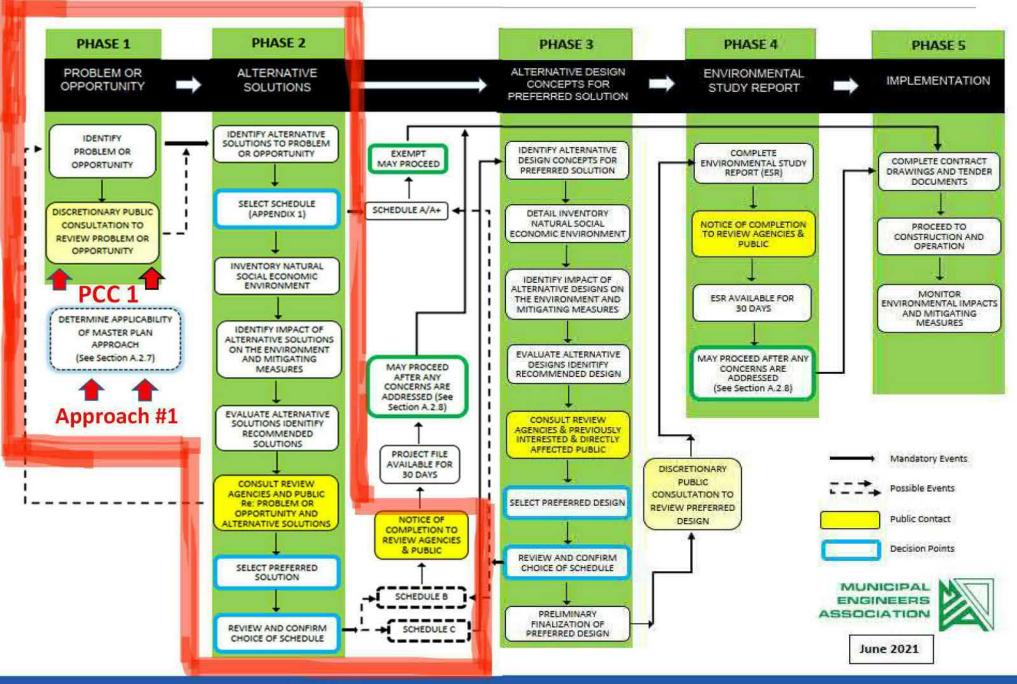
Study Area & Background

Located in the heart of southwestern Ontario, Oxford County has a population of approximately 122,000 residents. Oxford is "growing stronger together" through demonstrated partnerships with residents, businesses, and the eight area municipalities, comprising Blandford-Blenheim, East Zorra-Tavistock, Ingersoll, Norwich, South-West Oxford, Tillsonburg, Woodstock, and Zorra.

Oxford County is one of Ontario's foremost farming communities, and its location at the crossroads of Highways 401 and 403 has contributed to the development of a significant commercial and industrial sector growth.



Class EA/ Master Plan Process



Goals of Oxford's W/WW MP

- 1. Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046;
- Ensure water and wastewater strategies that are consistent with and conform to Provincial policies/ legislation and support the County's Official Plan and strategic initiatives;
- 3. Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure; and,
- Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability.



Master Planning Principles

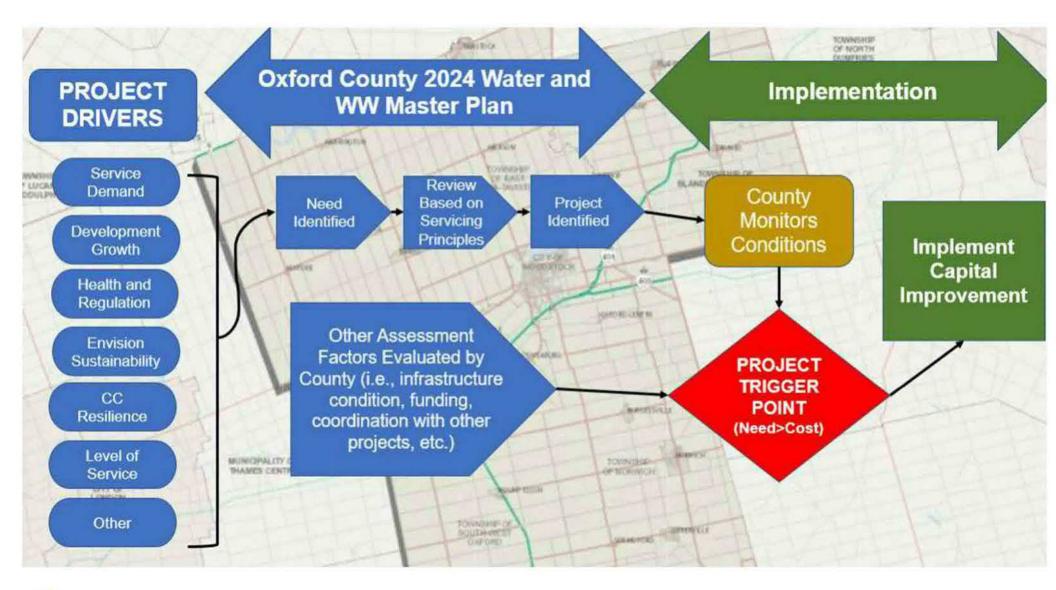
- Integrate growth management planning and infrastructure servicing in a manner which ensures alignment with County's Official Plan and Strategic Initiatives
- Offer infrastructure solutions that recognize potential for growth beyond current planning horizons
- Develop infrastructure systems which meet the County's established asset level of service framework and MECP legislative requirements
- Maximize the use of available existing capacity in infrastructure, while considering sustainable infrastructure expansions



Master Planning Principles

- Provide reliability, redundancy, and security in the infrastructure systems, including consideration of reserve capacity
- Optimize pumping and storage infrastructure to maintain level of service under emergency conditions
- Recommend proven, reliable, financially, and sustainable technologies that meet long-term servicing requirements
- Recognize water conservation and efficiency measures to support environmental sustainability
- Consider infrastructure operating and maintenance costs, including full lifecycle costing, to evaluate overall longterm financial implications and sustainability

Municipal Class Environmental Assessment





CLIMATE CHANGE & SUSTAINABILITY

Oxford County is committed to building a sustainable future; including commitments to zero waste, 100% renewable energy and low carbon transportation.

These commitments will be integrated into the Water and Wastewater Master Plan.



fordCounty

Growing stronger together

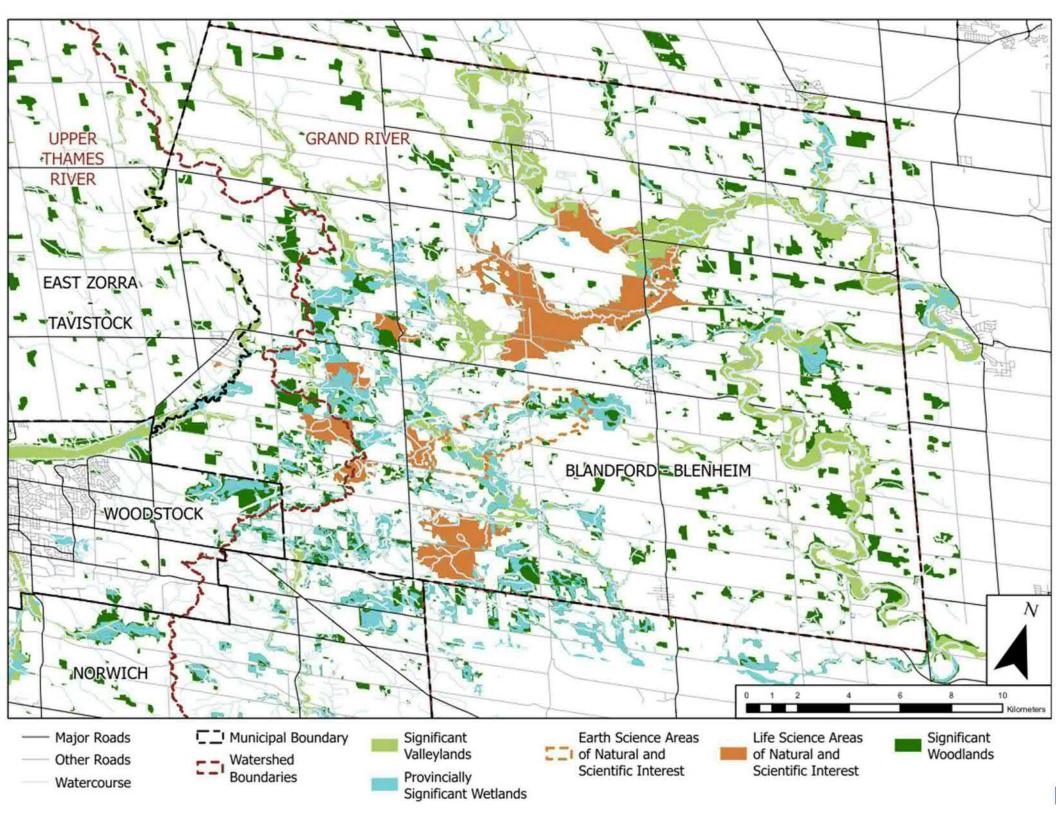
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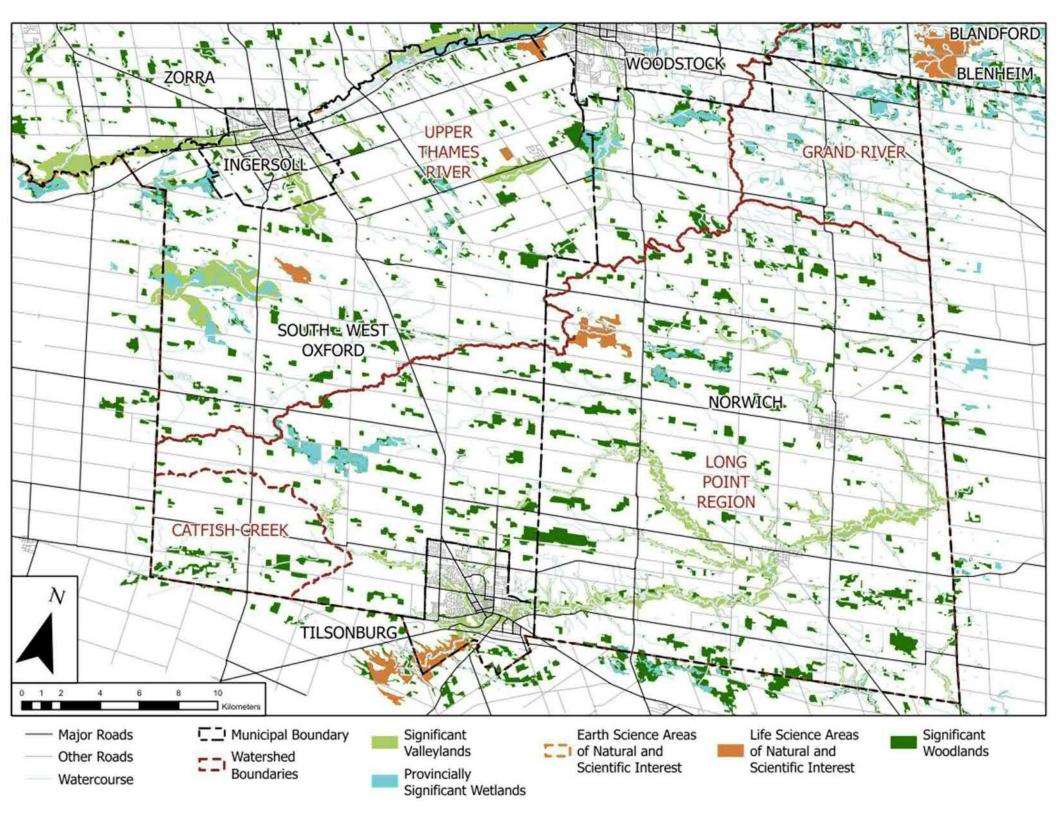
NATURAL ENVIRONMENT

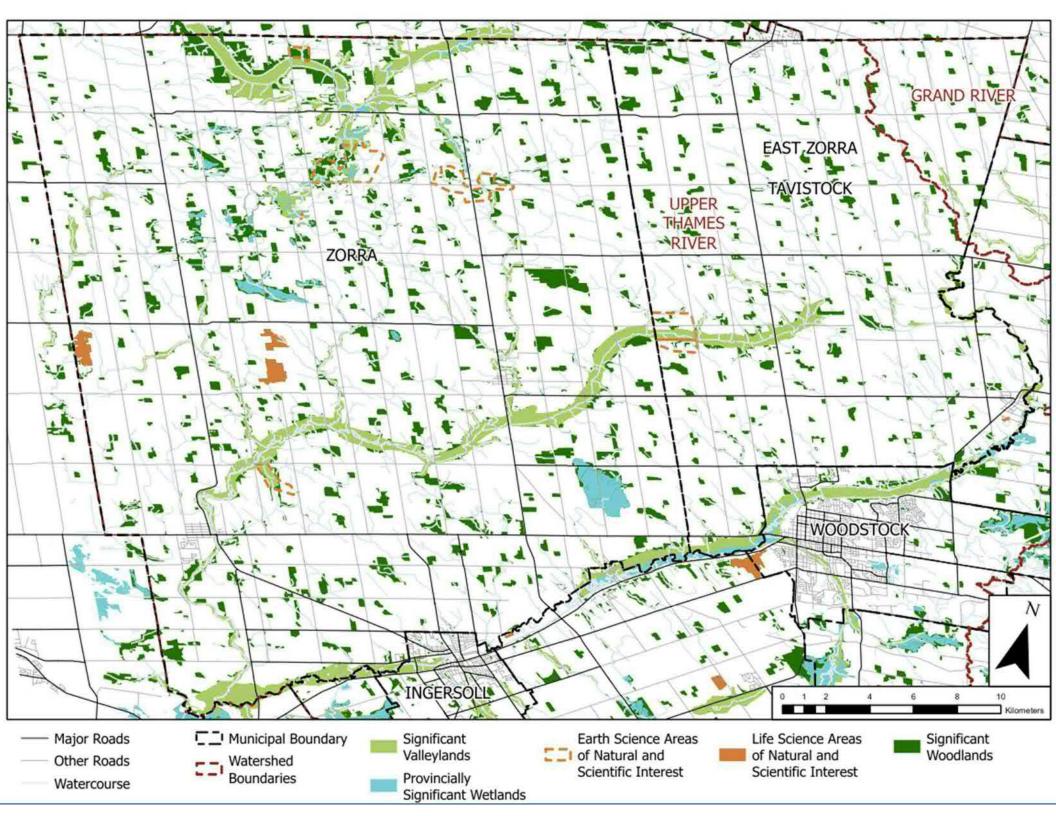
Oxford County has a natural heritage system made up of important ecological features including woodlands, wetlands, valleylands, meadows and watercourses.

A desktop review of potential environmental constraints and opportunities will be completed once potential servicing areas have been identified.









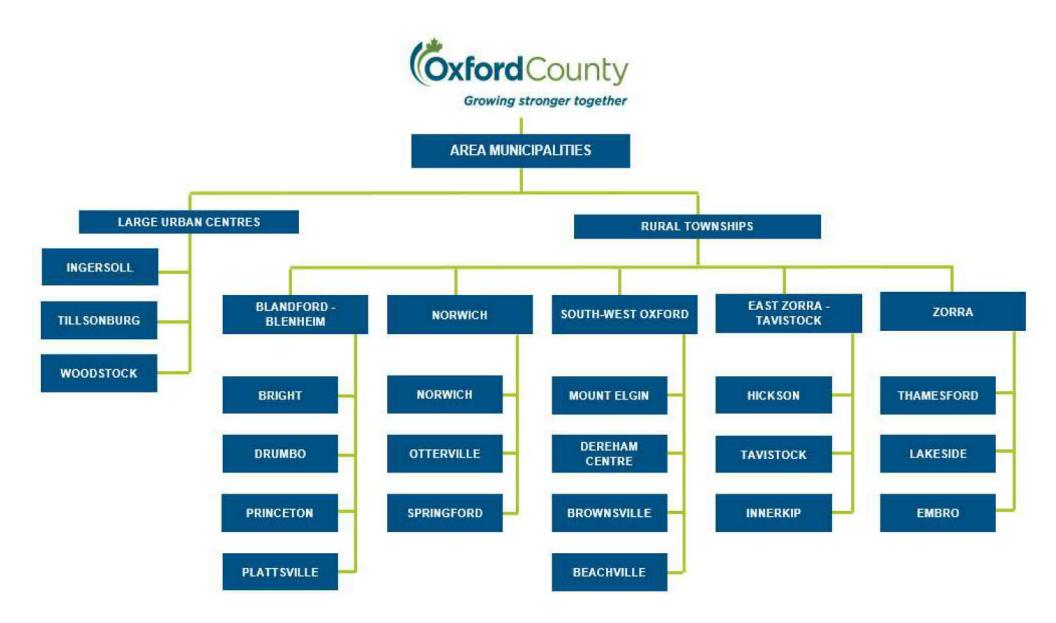
Water and Wastewater Systems

The County owns and operates:

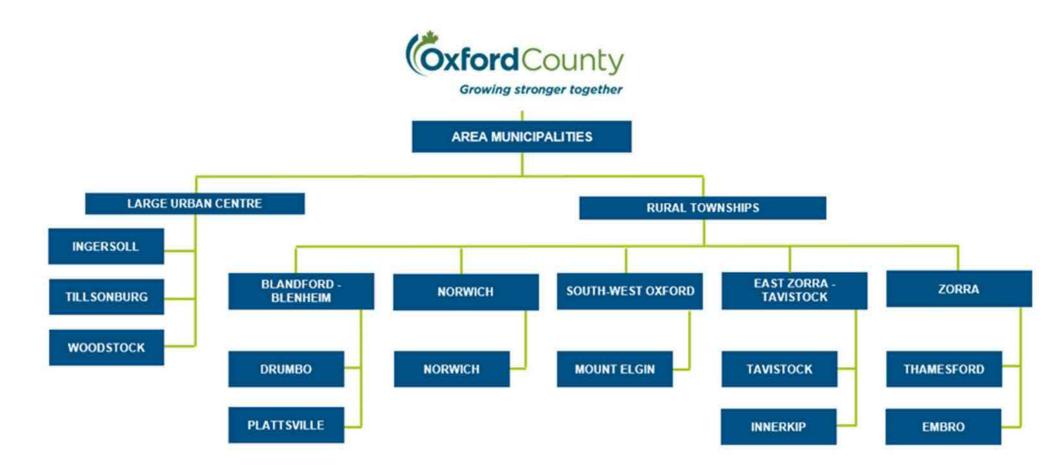
- 17 municipal drinking water systems
- 11 municipal wastewater systems
- Over 735 km of distribution watermains/ 600 km of sewers & forcemains
- 34 water treatment facilities
- 42 water reservoirs/storage towers
- 7 water booster pumping stations
- 61 active groundwater wells
- 36 sewage pumping stations
- 9 wastewater treatment plants and a biosolids management facility
- SCADA systems to control operations



OXFORD COUNTY - AREA MUNICIPALITIES SERVICED BY WATER TREATMENT SYSTEMS



OXFORD COUNTY - AREA MUNICIPALITIES SERVICED BY WASTEWATER TREATMENT SYSTEMS



Questions or comments?



THANK YOU FOR ATTENDING!

 Please feel free to submit your comments via email, phone a member of the study team or visit the study website on Speak Up, Oxford! <u>https://speakup.oxfordcounty.ca/wwwmp</u>



Travis Pawlick, P.Eng.

Supervisor, Water and Wastewater Technical Services Oxford County 519-539-9800 x3111 tpawlick@oxfordcounty.ca









APPENDIX 2.4 Public Consultation



APPENDIX 2.4.1 PCC 1 Presentation and Note to File





Growing stronger together

Welcome Virtual Public Consultation Centre #1

2024 Water and Wastewater Master Plan

Thursday, September 29th, 2022 5:00 p.m. – 7:00 p.m.

arva

R.V. Anderson Associates Limited engineering • environment • infrastructure



Virtual Meeting Format



Presentation by the Project Team



Question and Answer Period "Raise Your Hand" or Dial "9"



Presentation, Transcript, and Question and Answer Summary will be available at www.oxfordcounty.ca/wwwmp after the meeting



To assist our ongoing development of this Master Plan, please provide any comments by October 19, 2022



Purpose of Meeting - Agenda

- Introduce you to the study
- Provide an overview of the study process
- Identify the issues and reason for this study
- Summarize the County's water and wastewater system
- Present information on what we have found to date

We want to hear from you!

- Do you have any observations that you would like to share?
- Do you have any questions regarding the study?
- Do you have any questions regarding the Master Plan process?

-	
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Study Area & Background

- Located in the heart of southwestern Ontario, Oxford County has a population of approximately 120,781 residents (2021 Statistics Canada census)
- Oxford County comprises of eight area municipalities: Blandford-Blenheim, East Zorra-Tavistock, Ingersoll, Norwich, South-West Oxford, Tillsonburg, Woodstock, and Zorra
- Ingersoll, Tillsonburg and Woodstock are designated as 'Large Urban Centers' as the majority of employment and residential growth is concentrated here
- The remaining five municipalities are termed 'Townships', and consists of non serviced, and partially and fully serviced villages



Oxford County Official Plan

Provides fundamentals based on a 20-year horizon projection for:

- County-wide development strategy
- Resource management policies
- Land use policies
- Implementation strategies

The plan concentrates growth and development in communities containing a mix of residential and non-residential land use and the following hierarchy of servicing options:

- 1. Servicing extended from existing centralized water and wastewater treatment facilities
- 2. Individual septic systems and private wells
- 3. The extension of communal wastewater or water supply facilities beyond the designated limits of serviced communities is prohibited



Drinking Water Treatment and Supply Systems

The County owns and operates:

- 17 municipal drinking water systems
- 34 water treatment facilities
- 735 km of distribution watermains
- 39 water reservoirs/storage towers
- 7 water booster pumping stations
- 61 active groundwater wells
- SCADA systems to control operations

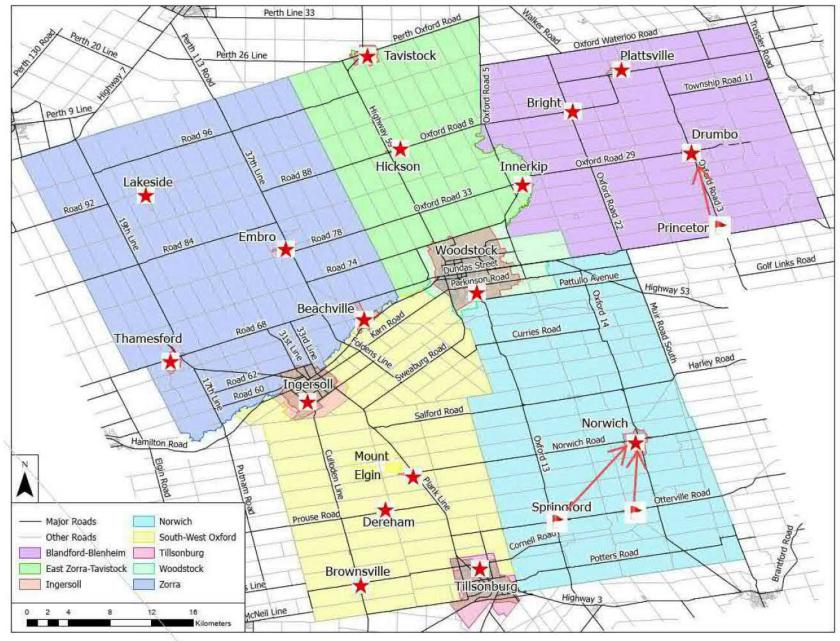








Oxford County Drinking Water Systems



Growing stronger together



Wastewater Treatment and Collection Systems

The County owns and operates:

- 11 municipal sewage collection systems
 - Pumped sewage to other plants Embro, Innerkip have odour control facilities
- 600 km of sewers & forcemains
- 36 sewage pumping stations
- 9 wastewater treatment plants
 - Activated Sludge WWTPs Ingersoll, Tillsonburg, Woodstock
 - Extended Aeration WWTP- Thamesford
 - o Lagoon Norwich, Plattsville, Tavistock
 - Recirculating Sand Filter Mount Elgin
 - Sequencing Batch Reactor (being converted to a Membrane Bio-reactor) - Drumbo
- One biosolids management facility

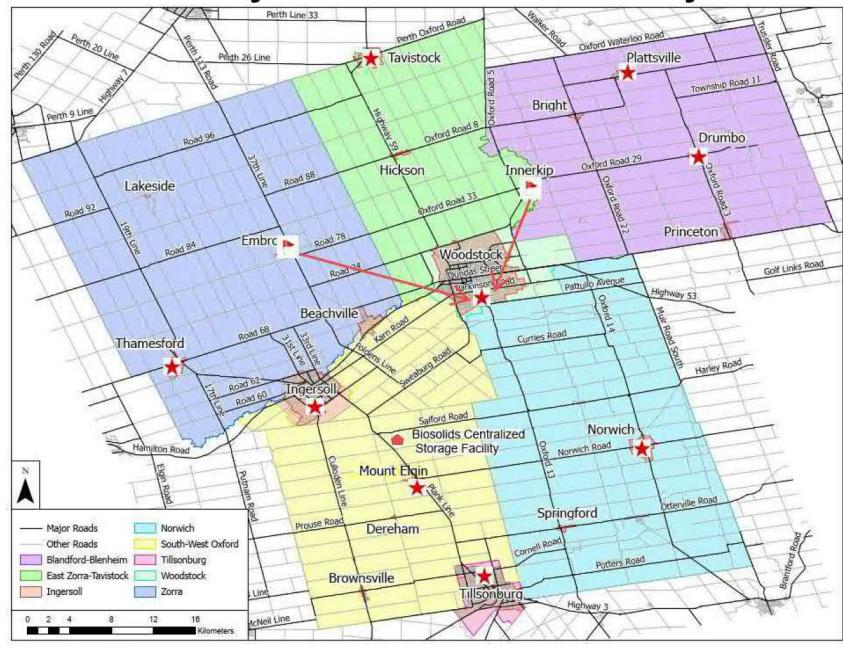
ord County

SCADA systems to control operations







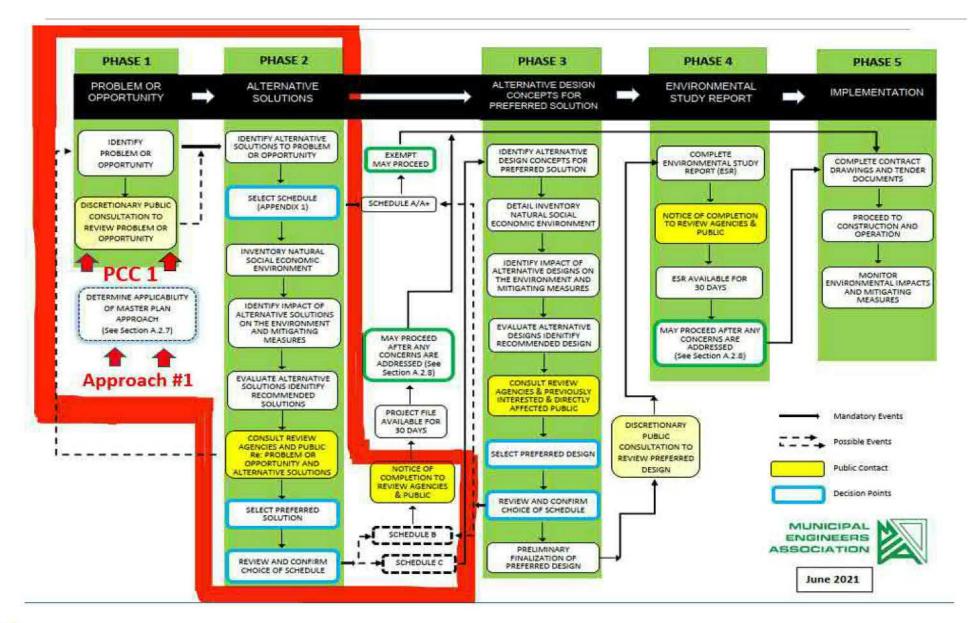


Oxford County Wastewater Treatment Systems

Growing stronger together



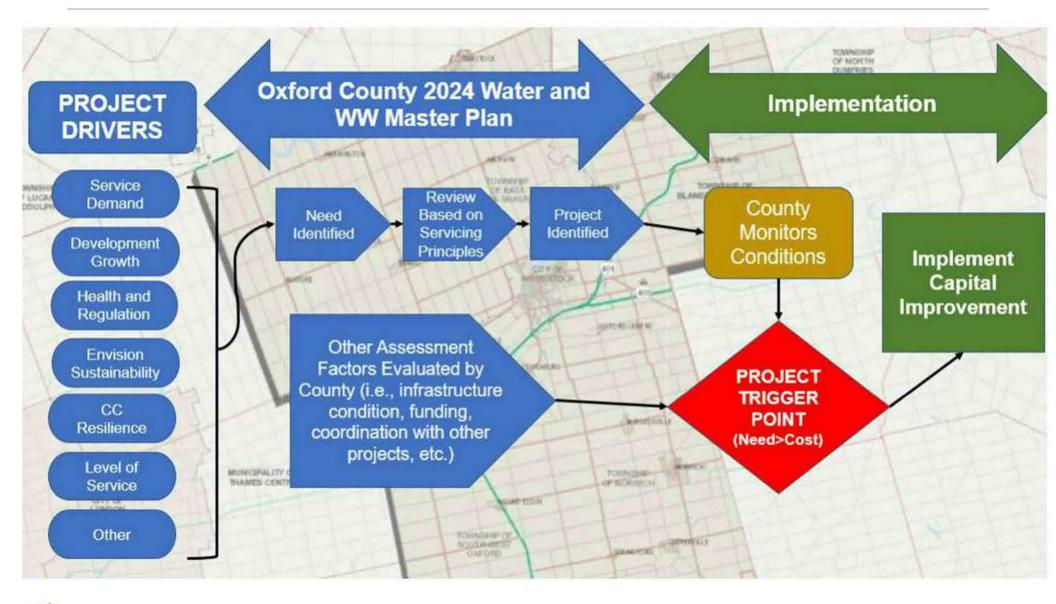
Class EA/ Master Plan Process



CoxfordCounty Orva Growing stronger together



Municipal Class Environmental Assessment





Any comments or questions?







Problem/Opportunity Statement

To comprehensively develop, evaluate and select preferred longterm water and wastewater serving strategies to support existing servicing needs and accommodate future projected population and employment growth to the year 2046





Master Planning Goals

- Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046
- Integrate growth management planning and infrastructure servicing in a manner which ensures alignment with County's Official Plan and Strategic Initiatives
- Offer infrastructure solutions that recognize potential for growth beyond current planning horizons
- Develop infrastructure systems which meet the County's established asset level of service framework and MECP legislative requirements
- Optimize the current infrastructure to realize all capacity available, while considering sustainable infrastructure expansions
- Multi-year Capital Implementation Plan detailed in three horizon time periods - 2024-2028, 2029-2033, and 2034-2046

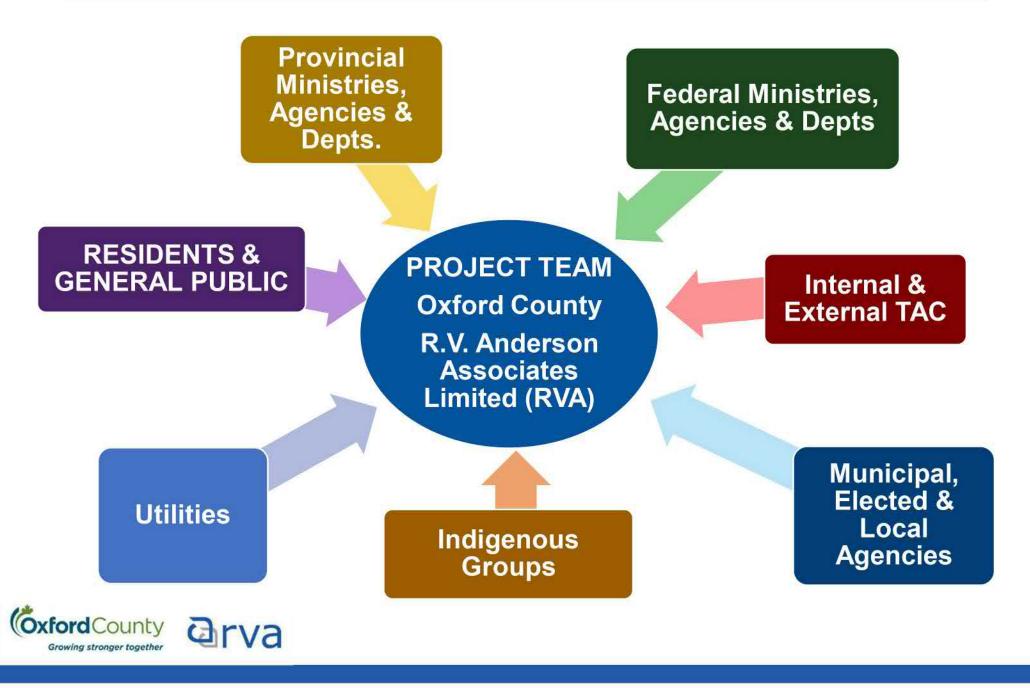


Master Planning Goals

- Provide reliability, redundancy and security in the infrastructure systems, including consideration of reserve capacity
- Optimize pumping and storage infrastructure to maintain level of service under emergency conditions
- Recommend proven, reliable, financially and sustainable technologies that meet long-term servicing requirements
- Recognize water conservation and efficiency measures to support environmental sustainability
- Consider infrastructure operating and maintenance costs, including lifecycle costing, to evaluate overall long-term financial implications and sustainability



Input into Master Plan



Natural Environment

- Land use within the Study Area is dominated by Agricultural Reserve, with interspersed Settlement, Open Space, and Environmental Protection Areas
- Schedule C-1 of the Oxford County Official Plan shows Environmental Features including locally and provincially significant features in the County
- Land use within Oxford County is further sub-categorized by individual Schedules for each Township and Urban Centre
- Oxford County contains portions of four conservation area watersheds including:
 - Upper Thames River (north and west)
 - Grand River (north and east)
 - Long Point Region (south)
 - Catfish Creek (extreme southwest) watersheds
 - These watersheds are further subdivided into 15 Subwatersheds

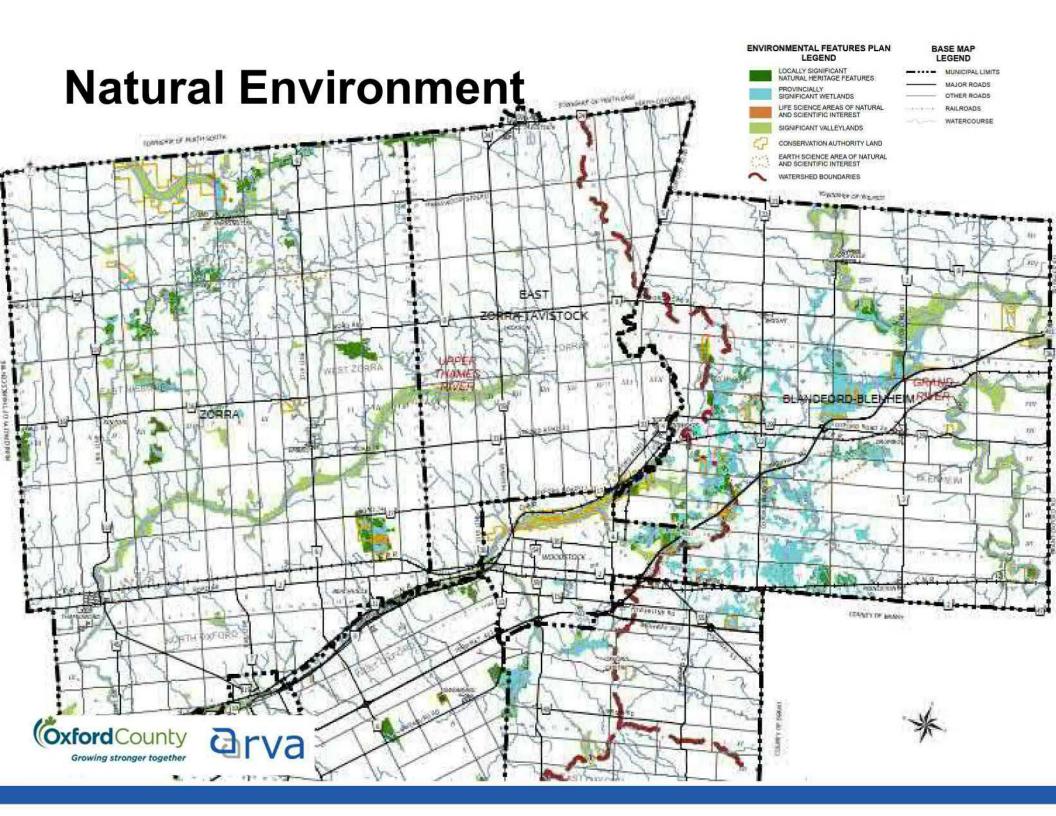


Natural Environment

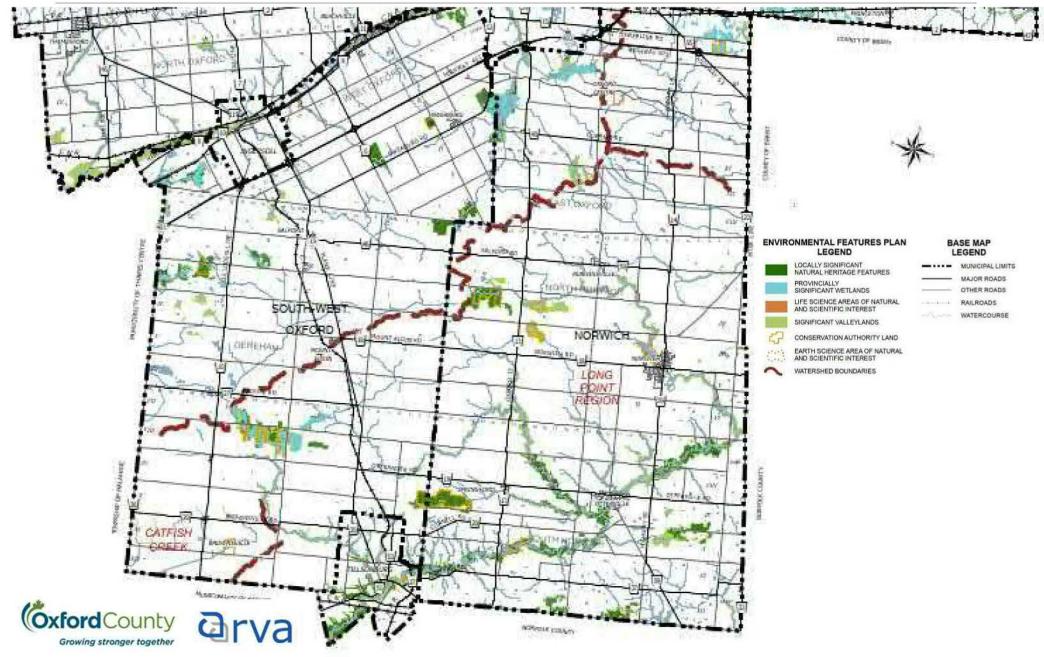
Distribution of Natural Areas across County municipalities

Percent Land Cover by Area (%)								
Geographic Area	Significant Wetlands	Significant Woodlands	ANSI (Life Science)	ANSI (Earth Science)	Significant Valleyland			
Township of Norwich	2.07	12.25	0.44	0	6.62			
Township of South-West Oxford	2.57	10.05	0.37	0.01	4.19			
Township of Zorra	1.52	13.22	0.34	1.05	10.06			
Township of Blandford- Blenheim	10.18	18.99	4.82	1.93	13.97			
Township of East Zorra- Tavistock	0.41	8.45	0	0.94	3.97			
Town of Ingersoll	0.64	13.46	0	0	18.35			
Town of Tillsonburg	0	19.25	6.53	0	25.56			
City of Woodstock	4.87	11.04	0.38	0	9.6			





Natural Environment



Work to Date

- Project Start Up Meeting (County Meeting #1) 19-Jan-22
- Undertook Background Review and Confirm System Demand to 2046 - January to April 2022
- Notice of Study Commencement published in March 2022
- Collected and reviewed agency/public/First Nations feedback
- Reviewed population growth projections provided by the County



Growth Centres and Population Forecasts

Area Municipality	Village	2021 Population	2046 Projection
Blandford – Blenheim	Drumbo	2,019	3,009
Blandford – Blenheim	Plattsville	1,284	2,519
Norwich	Norwich	4,328	6,885
South-West Oxford	Mount Elgin	702	1,891
South-West Oxford	Embro	996	1,341
East Zorra – Tavistock	Tavistock	3,375	5,013
East Zorra – Tavistock	Innerkip	1,596	2,636
Zorra	Thamesford	2,997	3,942
Ingersoll	-	14,065	18,785
Tillsonburg	-	19,120	23,890
Woodstock	-	47,965	67,295



Water Systems Initial Assessment

Initial assessments have reviewed the water systems and their components (wells, treatment systems, pumping stations, storage reservoirs and towers) and included:

- Current water system demands and capacity limits
- Current and recent studies and infrastructure projects
- Potential changes in the regulation of Drinking Water
- How systems presently operate
- Current production capacity of wells
- Current treatment capacity of treatment facilities
- Current capacity of pumping stations
- Current storage capacity of water storage facilities
- The current physical state, location, potential constraints, and opportunities of the components



Wastewater Systems Initial Assessment

Initial assessments have reviewed the wastewater systems and their components (sewage pumping stations, wastewater treatment plants, odour control systems, Biosolids Centralized Storage Facility) and included:

- Current wastewater flows and capacity limits
- Current and recent studies and infrastructure projects
- Potential changes in the wastewater regulation
- How systems presently operate
- Current treatment capacity of wastewater treatment facilities
- Current capacity of pumping stations and odour control systems
- Current biosolids production
- The current physical state, location, potential constraints, and opportunities of the components



Any comments or questions?







Climate Change and Sustainability

Oxford County is addressing climate change through their 100% Renewable Energy Plan, Public Works Strategy Roadmap, Future Oxford Community Sustainability Plan

The W/WW MP will use the Envision Framework as a guide in the development of planning level solutions

Envision can be used throughout the entire lifecycle of a project - however, the earlier it is applied, the greater the value it can deliver



Climate Change and Sustainability

60 sustainability criteria, called 'credits,' which are arranged in five categories:







Quality of Life specifically addresses a projects impact on communities from the health and wellbeing of individuals to the wellbeing of the larger social fabric.

Leadership is comprised of the tasks that demonstrate effective leadership and commitment by all parties involved in a project. The meaningful commitment from the owner, team leaders and constructors.

Resource Allocation measures the use of renewable and non-renewable resources for the project. Benefits of managing resources needed will allow a longer life as we know it.

Natural World allows project teams to assess the effect of the project on the preservation and renewal of ecosystem functions. This section addresses how to understand and minimize negative impacts while considering ways in which the infrastructure can interact with natural systems in a synergistic and positive way.



Climate And Risk looks at two main concepts: minimizing emissions that may contribute to increased short- and long-term risks and ensuring that infrastructure projects are resilient to shortterm hazards or altered long-term future conditions.



Project Schedule

- Undertake PCC # 1- September 29, 2022
- Undertake Water System Master Plan May to December 2022
- Undertake Wastewater System Master Plan- May to December 2022
- County Council Presentation of Master Plan Progress (Council Presentation # 1) – November 2022
- Undertake PCC # 2 March 2023
- County Council Presentation of Master Plan Report (Council Presentation # 2) - May 2023
- County Issues Notice of Completion May 2023
- Master Plan Completed (following 30-day review period) June 2023



Questions?

THANK YOU FOR ATTENDING!

- Material on this meeting will be posted on the Speak Up, Oxford! <u>https://speakup.oxfordcounty.ca/wwwmp</u>
- Please feel free to "raise your hand" to ask a question or submit your comments via email or phone a member of the study team or vial the Speak Up, Oxford site

Don Ford, BA, CMM III, C.Tech. Manager, Water and Wastewater Oxford County 519-539-9800 x3191 dford@oxfordcounty.ca











R.V. Anderson Associates Limited 557 Southdale Road Suite 200 London Ontario N6E 1A2 Canada Tel 519 681 9916 Fax 855 833 4022 www.rvanderson.com

MEMORANDUM

RVA: 215063

TO:	File
FROM:	John Tyrrell
DATE:	September 29, 2022
SUBJECT:	Summary of PCC # 1 (Virtual) September 29, 2022

Introduction

PCC # 1 was scheduled as a virtual presentation on September 29, 2022 through a Microsoft Teams Link provided through the County's project website at <u>www.oxfordcounty.ca/wwwmp</u>. The presentation commenced shortly after 5:30 PM.

Attendance and Discussion at the PCC

In attendance from the project team were Don Ford and Mackenzie Shultz from Oxford County and John Tyrrell from R.V. Anderson Associates Limited. From the City of Woodstock, Harold de Haan, the City Engineer was in attendance. July Welker of the Upper Thames River Conservation Authority's Source Water Protection Program was also in attendance. There were eight additional attendees at the presentation including residents, consultants, and others.

Don Ford introduced the PCC to the attendees and John Tyrrell undertook the presentation.

There were some general questions on the Master Plan process and some questions regarding such issues as surface water protection, bypass events at sewage pumping stations and plants and assumptions that the Master Plan would be making regarding service demand. These were answered by the project team.

The presentation and the meeting concluded at approximately 6:20 PM.

The presentation was posted on the project website at <u>www.oxfordcounty.ca/wwwmp</u> for public review.

John Tyrrell, M.Sc.(Eng.), P.Eng. Senior Project Manager, Municipal jtyrrell@rvanderson.com

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APPENDIX 2.4.2

SUO Feedback Survey 01 September to 19 October, 2022





Feedback form

SURVEY RESPONSE REPORT 01 September 2022 - 19 October 2022

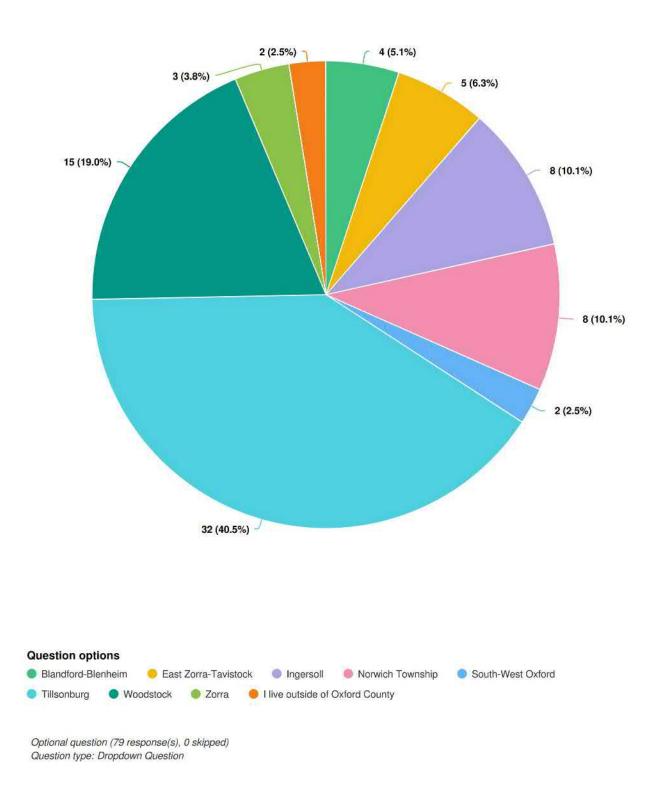
PROJECT NAME: Water and Wastewater Master Plan



REGISTRATION QUESTIONS

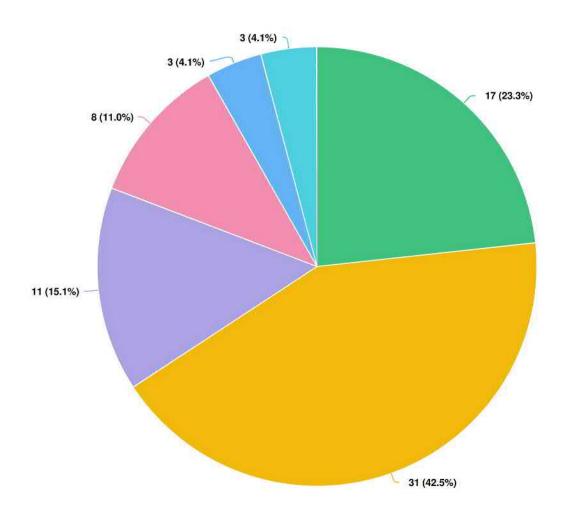


Q1 Where do you live?





Q2 Billing. Your water services bill funds the cost of water treatment to ensure safe drinking water and also maintenance of the water distribution system (e.g., repairing leaks and watermain breaks). It also funds the long-term capital costs of maint...



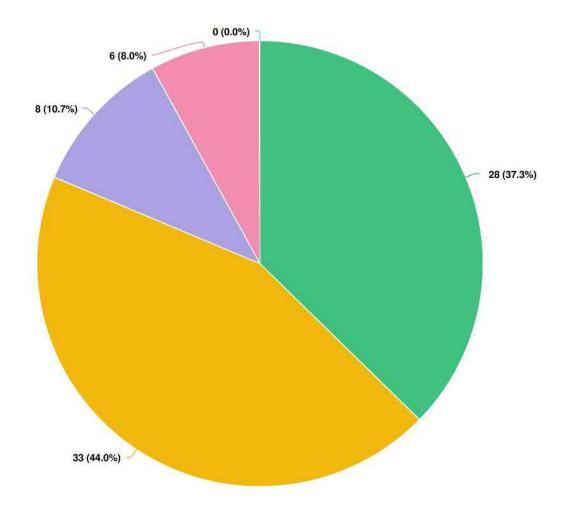
Question options

- Very satisfied, and I would consider paying a nominally higher rate to improve treatment, systems and/or services in my community.
- I am satisfied with the current services I receive AND the current rates that I pay.
- I am satisfied with the current services I receive, but NOT the rates that I pay.
- I not satisfied with the current services I receive NOR the current rates that I pay.
- Not applicable: I don't pay for these services (e.g., tenant, live out of area) Other (please explain)

Optional question (73 response(s), 6 skipped) Question type: Dropdown Question



Q3 Energy efficiency. The Water and Wastewater Master Plan will look at the energy efficiency of Oxford's systems. Right now, energy consumption for water and wastewater services occurs at the treatment plants and is used to pump water/wastewater to ...



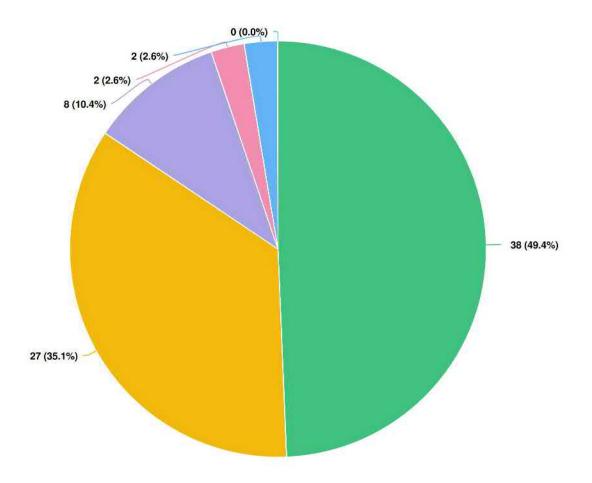
Question options

- This is an area to prioritize and significantly improve upon (e.g., carbon offsetting, green infrastructure, renewable energy).
- There may be room for some improvements if costs and other factors are favourable.
- This is a low priority: I am happy with the County's current commitment to energy efficiency.
- Not sure: I would need to know more. Other (please explain)

Optional question (75 response(s), 4 skipped) Question type: Dropdown Question



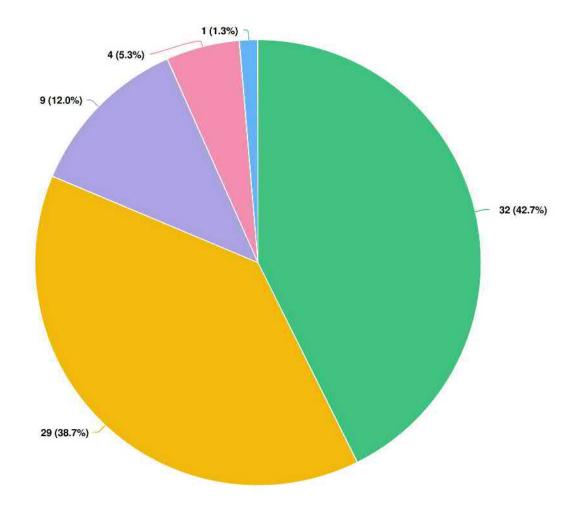
Q4 Wastewater services. Wastewater treatment is a necessary part of protecting environmental health. Over the next 20 years, how should Oxford County prioritize investment in wastewater treatment to better protect the environment?



Question options

- The County should prioritize this area and actively explore opportunities for further resource recovery and advanced treatment options.
- There may be room for some improvements if costs and other factors are favourable.
- This is a low priority: I am happy with the County's current commitment to wastewater treatment.
- Not sure: I would need to know more.
- This question does not apply to me (my community currently does not receive municipal wastewater treatment).
- Other (please explain)

Optional question (77 response(s), 2 skipped) Question type: Dropdown Question Q5 Water aesthetics (smell and taste). Drinking water treatment involves disinfecting water before it reaches residents. In some cases, this process can also remove dissolved metals or other dissolved material that can affect the smell, taste or look ...



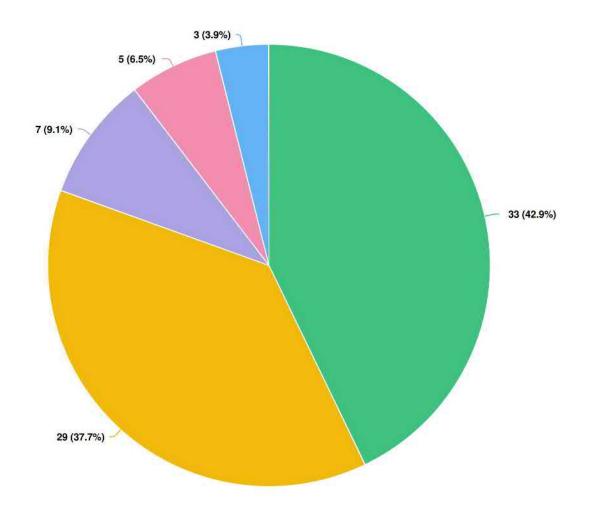
Question options

- The County should prioritize this area and actively look at treatment options to further improve the aesthetics of drinking water.
- There may be room for some improvements if costs and other factors are favourable.
- This is a low priority: I am happy with the County's current commitment to water treatment.
- Not sure: I would need to know more. Other (please explain)

Optional question (75 response(s), 4 skipped) Question type: Dropdown Question



Q6 Water storage and supply. Our communities are growing and so are we—Oxford County routinely monitors the capacity (storage and supply) of our drinking water systems to meet current needs and future growth. A healthy system capacity is needed to ens...



Question options

- The County should prioritize this area and seek improvements (e.g., my community does not currently have fire protection and I would support this addition).
- There may be room for some improvements if costs and other factors are favourable.
- This is a low priority: I am happy with the County's current commitment to capacity (storage and supply).
- Not sure: I would need to know more. Other (please explain)

Optional question (77 response(s), 2 skipped) Question type: Dropdown Question APPENDIX 2.4.3 PCC 2 Presentation and Note to File





2024 Water and Wastewater Master Plan

PUBLIC CONSULTATION CENTRE #2 – LIVE PRESENTATION AND Q&A JUNE 27, 2023 6:00 - 8:00 PM

Comment period for PCC #2 open until July 11, 2023









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THIS MEETING IS BEING RECORDED. BY PARTICIPATING IN THIS MEETING. YOU ARE CONSENTING TO BE RECORDED.

WE WANT TO HEAR FROM YOU!

- "Raise your hand" to ask a question during the meeting
- Submit your comments via email or phone
- Leave a comment or question for the study team on Speak Up, Oxford

OR





Visit:

www.oxfordcounty.ca/wwwmp

Don Ford, BA, CMM III, C.Tech. Manager, Water and Wastewater Oxford County 519-539-9800 x3191 dford@oxfordcounty.ca



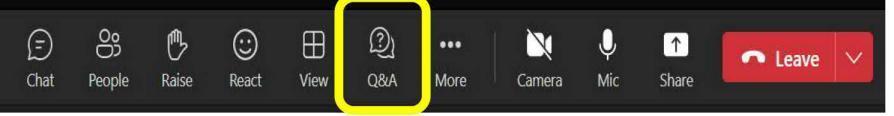
John Tyrrell, P.Eng. Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 jtyrrell@rvanderson.com



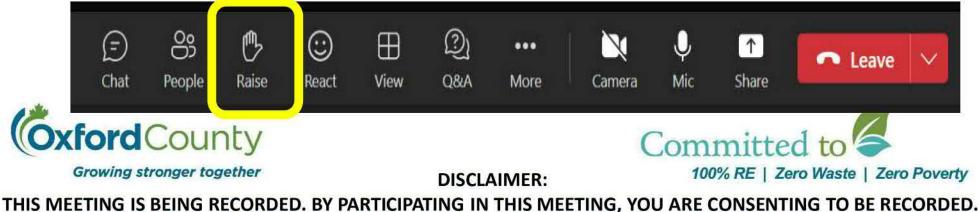
HOUSEKEEPING ITEMS

- When joining the online meeting, as attendees your microphone and video will be automatically disabled.
- There will be an opportunity at the end of the presentation to ask any questions or submit comments.

> To submit a question, please use the Q&A function



You can also ask your question directly to the project team by using the raise hand function. When it is your turn, a team member will enable your microphone



PURPOSE OF PCC #2

- To allow the public to understand the planning level recommendations from the Draft Master Plan report
- Recommendations have been reviewed by Internal Technical Advisory Committee (County staff) and External Technical Advisory Committee (Municipalities, Agencies)
- Input received from this will be used to develop the final Master Plan
- Specific concerns will be reviewed and appropriately addressed





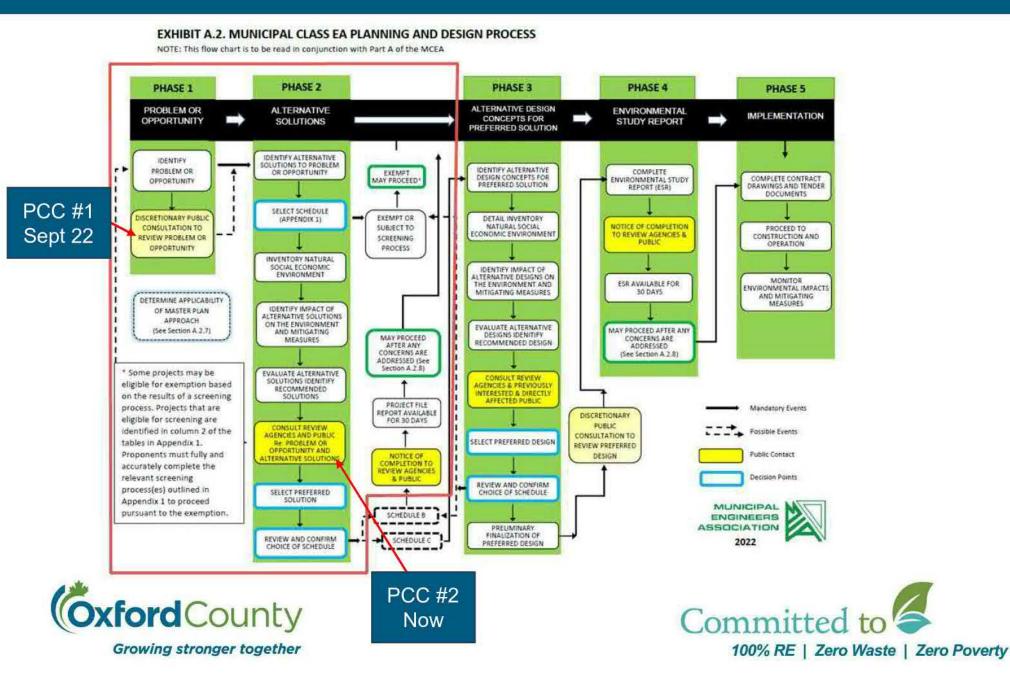
GOALS OF OXFORD'S W/WW MP

- Provide water and wastewater strategies to service existing settlement areas and growth to the year 2046
- 2. Develop water and wastewater strategies that are consistent with and conform to Provincial policies/ legislation and support the County's Official Plan and strategic initiatives
- Identify options for optimizing the effectiveness of the existing water and wastewater infrastructure;
- Develop an integrated multi-year water and wastewater capital implementation plan which affords infrastructure reliability, redundancy and sustainability





CLASS EA / MASTER PLAN PROCESS



PROBLEM/OPPORTUNITY STATEMENT

To identify preferred water and wastewater servicing strategies to meet Oxford's growth needs to 2046 as well as provide effective ongoing continuity to existing serviced settlement areas across Oxford County as appropriate.







OXFORD COUNTY RESIDENTIAL POPULATION GROWTH

Municipality		Growth					
	2021**	2026	2031	2036	2041	2046	2021-2046
Woodstock	47,965	51,825	55,815	59,825	63,595	67,295	19,330
Tillsonburg	19,120	20,020	20,980	21,980	22,960	23,890	4,770
Ingersoll	14,065	14,955	15,915	16,895	17,855	18,785	4,720
Blandford- Blenheim	7,770	8,090	8,440	8,810	9,190	9,550	1,780
East Zorra- Tavistock	8,050	8,530	9,040	9,560	10,050	10,510	2,460
Norwich	11,450	11,920	12,420	12,960	13,490	13,990	2,540
South-West Oxford	7,785	8,025	8,295	8,555	8,765	8,975	1,190
Zorra	8,860	9,110	9,370	9,650	9,950	10,240	1,380
Oxford County	125,065	132,475	140,275	148,235	155,855	163,235	38,170

* Where a Township contains more than one fully serviced settlement area, assumptions regarding the allocation of the Township's total forecasted growth to each settlement will also be used to inform the study findings for each system.

** 2021 Census Population with preliminary correction for undercount of approximately 3%





OXFORD COUNTY NON-RESIDENTIAL POPULATION GROWTH

Municipality	Est	Growth					
wunicipality	2021	2026	2031	2036	2041	2046	2021-2046
Woodstock	28,440	30,040	31,690	33,720	36,050	38,730	10,290
Tillsonburg	9,060	9,320	9,600	9,950	10,360	10,810	1,750
Ingersoll	9,710	10,080	10,470	10,950	11,510	12,150	2,440
Blandford-Blenheim	1,910	1,950	1,990	2,050	2,120	2,210	300
East Zorra-Tavistock	2,950	3,020	3,100	3,200	3,320	3,450	500
Norwich	4,200	4,280	4,360	4,470	4,600	4,740	540
South-West Oxford	2,920	2,960	2,990	3,040	3,090	3,150	230
Zorra	2,890	2,920	2,960	3,010	3,080	3,150	260
Oxford County	62,080	64,570	67,160	70,390	74,130	78,390	16,310

* Figures may not add precisely due to rounding





SYSTEM OVERVIEW STRUCTURE

Water and Wastewater System Review

- Design Criteria established for system
- Components and Capacity reviewed current issues and capacities
- System Demands projected system demands
- Issues identified growth, risk, and climate change issues for systems
- Firm Capacity for water supply, ability to provide service when largest well/pump/treatment train is off line

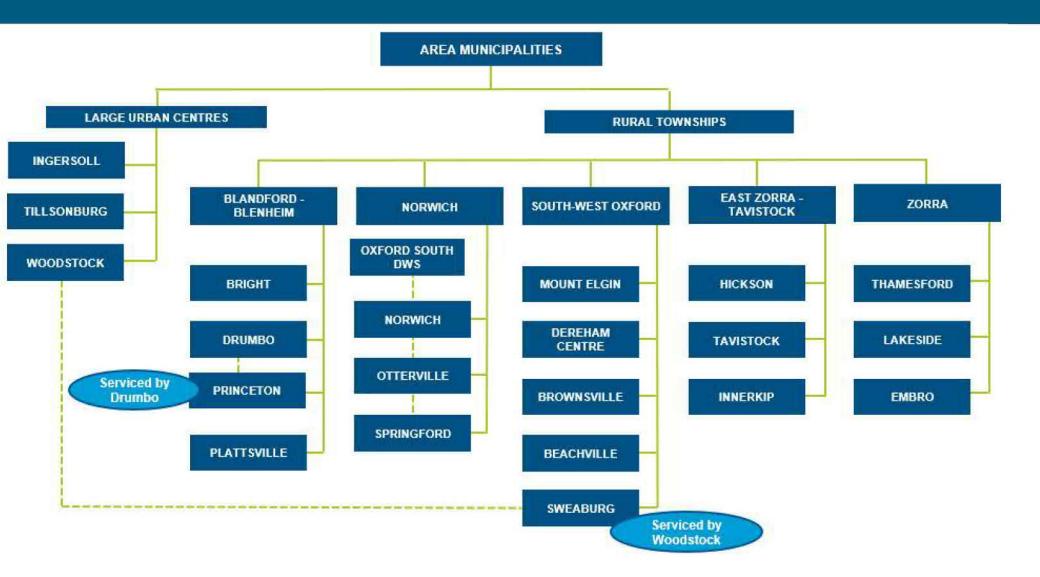
Potential Projects

- Review issues and identify solutions
- Identified projects and proposed timeline for requirement
- Consider solutions that could address issues across multiple systems (co-benefits)





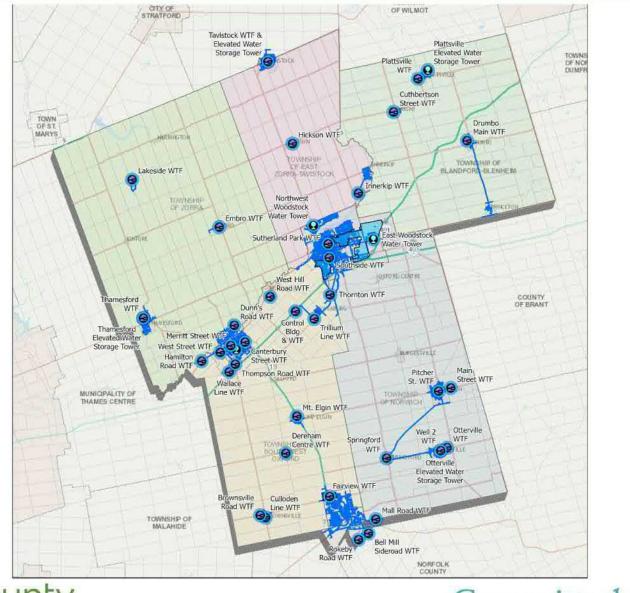
COUNTY WATER SYSTEMS







EXISTING WATER INFRASTRUCTURE







WATER SYSTEM COMPONENTS

Component	Sub-Components				
	 Groundwater well(s) 				
Water Supply	Pumping				
Motor Treatment	Treatment at Well House				
Water Treatment	 Centralized Treatment (multiple wells) 				
	Watermains				
Water Distribution and	 Booster Pumping Stations (BPS) 				
Booster Pumping	Pressure Zones				
	 In-ground Storage (associated BPS) 				
Water Storage	 Elevated Storage 				





WATER SYSTEM OPPORTUNITY AND CONSTRAINTS

- Security of supply
 - (i.e., standby power to water facilities, specialized well rehabilitation, water blending, feedermain twinning, water efficiency and conservation, etc.);
- System redundancy
 - (i.e., new well supplies to increase firm capacity, inter-system water connections, watermain looping, etc.)
- Impacts due to new areas requiring servicing
- Pressure zone boundary adjustments
 - (i.e., infill and intensification, new employment lands, secondary units, etc.)
- · Water production and system operational issues
 - (i.e., pressure, fire flow, filtration backwash frequencies, etc.);
- Infrastructure capacity limitations
 - (i.e., high lift pumps, feedermains, well yields, etc.)
- Source water quality
 - (i.e., nitrates, iron, manganese, naturally occurring arsenic, etc.); and
- Unaccounted system water loss





EVALUATION CRITERIA

Category	Criteria		
Technical	 Constructability Improvement to operations Infrastructure required Approval requirements Risk mitigation – regulatory, supply security, climate change, etc. 		
Social and Cultural	 Public acceptance Impact to cultural heritage infrastructure and landscapes Impact to archaeological infrastructure and resources 		
Environmental	 Impact to aquatic and terrestrial species and habitat Impact to surface water quantity and quality Impact on climate change 		
Economic	 Capital costs Operation and maintenance costs Allows for planned community growth 		





WATER SERVICING ALTERNATIVE SOLUTIONS

County Level Solutions (common to all potential projects)

- Alternative 1 (Do Nothing) would not provide the water and servicing capacity to the existing and planned growth
 - > Not considered moving forward.
- Alternative 2 (Limit Growth) neither meets the County's vision for the growth centres and nor does it mitigate the water servicing risks for the existing serviced population
 - > Not considered moving forward.
- Alternative 3 Conservation/Reduction County has specific ongoing initiatives
 - > Should Continue to be implemented
- Alternative 4 Various Water System Servicing Concepts ex: new wells, pipes, pumping, storage, supply & treatment, interconnections, etc.





WATER SERVICING ALTERNATIVE SOLUTIONS

Issues	Solutions Reviewed					
Water Supply	 Additional local well Interconnection with another system Specialized well rehab Water conservation 					
Water Treatment	 Treatment at well Centralized treatment (multiple wells) Treatment technologies (if applicable) 					
Water Distribution and Booster Pumping	 Refurbish/upsize existing watermains New watermains Refurbish existing or build new BPS/standpipe Revise existing or create new pressure zones 					
Water Storage	In-ground Storage (associated BPS)Elevated Storage					
Risk	 Backup power generation Source water protection System redundancy and reliability Resiliency Understand emergent threats 					

TOWN OF INGERSOLL

Ingersoll DWS

• SERVICING CAPACITY:

- > Adequate water capacity to 2046
- > Existing storage capacity deficit approaching 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Water distribution system extension to service South West Industrial Park - Watermains, BPS, and elevated storage, including Hwy 401 crossings
- > Wallace Line Trunk Watermain
- South Thames Trunk Watermain





TOWN OF TILLSONBURG

Tillsonburg DWS

• SERVICING CAPACITY:

- > Adequate water capacity to 2046
- > Adequate storage capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Upgrades to Wells 3, 7A
- >Water security Replacement of Mall Road Wells 1A, 2, North Street backup power, Specialized well rehabilitation to maintain well yields

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 Water distribution system extension to service residential and employment infill areas – Trunk Watermains, Watermain Looping/Upsizing
 Committed to

Growing stronger together

CITY OF WOODSTOCK

Woodstock DWS

• SERVICING CAPACITY:

- > Adequate water capacity to 2046
- > Adequate storage capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Water security Source water protection, Tower backup power generation, Southside WTF replacement, Thornton Feedermain twinning, Specialized well rehabilitation to maintain well yields, Upgrades Well 6&9
- > Water distribution system extension (watermains, BPS, and storage, Highway crossings) to service infill areas and NE Industrial Park, SE Industrial Park and Karn Rd
- Pressure Zone expansions (Zone 2, Zone 3) and new Zone 6 (Karn Road)





TOWNSHIP OF BLANDFORD-BLENHEIM

Drumbo-Princeton DWS

- SERVICING CAPACITY:
 - > Water Supply Capacity expansion needed by 2031
 - > Adequate storage capacity to 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > New Well Supply
 - > Specialized Well Rehabilitation to maintain well yields
 - > Standby Power to Existing Well Field
 - > Water distribution system extension to service infill areas Trunk watermains / upsizing

Plattsville DWS and Bright DWS

- SERVICING CAPACITY:
 - > Plattsville adequate water supply and storage capacity to 2046
 - > Bright adequate water supply and storage capacity to 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > Plattsville New Well Supply (Security of Supply)
 - > Plattsville WTF Filtration Upgrades
 - > Plattsville to Bright Water System Interconnection (Security of Supply)





TOWNSHIP OF NORWICH

Oxford South DWS

• SERVICING CAPACITY:

- > Adequate water supply capacity to 2046
- > Adequate storage capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Norwich Well 4 WTF Filtration Upgrades
- > New Water supply (Security of Supply)
- > Well 4 WTF Secondary Storage (Security of Supply)





TOWNSHIP OF SOUTH-WEST OXFORD

Mount Elgin DWS

SERVICING CAPACITY:

- > Water supply firm capacity deficit approaching 2031
- > Adequate storage capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Mount Elgin WTF Optimization to regain plant design capacity
- > Trunk Watermain Interconnection to Ingersoll Water System

Beachville DWS

SERVICING CAPACITY:

- > Adequate water capacity to 2046
- > Adequate storage capacity to 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > New Well Supply and Standpipe (Security of Supply)





TOWNSHIP OF SOUTH-WEST OXFORD

Brownsville DWS

- SERVICING CAPACITY:
 - > Adequate water capacity to 2046
 - > Adequate storage capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Water Quality Improvements
- >WTF Filtration Upgrades Security of Supply

Dereham Centre DWS

• SERVICING CAPACITY:

- > Adequate water capacity to 2046
- > Adequate storage capacity to 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > Watermain replacements





TOWNSHIP OF EAST ZORRA-TAVISTOCK

Innerkip DWS

- SERVICING CAPACITY:
 - > Adequate water capacity to 2046
 - > Adequate storage capacity to 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > Watermain Replacements

Tavistock DWS

- SERVICING CAPACITY:
 - > Adequate water capacity to 2046
 - > Additional Storage capacity needed by 2028
- KEY INFRASTRUCTURE PROJECTS:
 - > New Well Supply, Treatment and additional storage (Well 4)
 - > Tavistock WTF Filtration Upgrades (manganese)
 - > Water distribution extension/upsizing for growth

Hickson DWS – no issues noted other than one well supply





TOWNSHIP OF ZORRA

Thamesford DWS

- SERVICING CAPACITY:
 - > Adequate water capacity to 2046
 - > Storage capacity minor deficit
- KEY INFRASTRUCTURE PROJECTS:
 - > Reservoir CT Enhancements (reallocation to Storage)
 - > Water distribution system extension Trunk Watermain

Embro DWS

- SERVICING CAPACITY:
 - > Adequate water capacity to 2046
 - > Storage capacity minor deficit
- KEY INFRASTRUCTURE PROJECTS:
 - > New Storage Embro WTF

Lakeside DWS - no issues noted other than one well supply





WATER CAPITAL IMPLEMENTATION PROGRAM (\$ millions)

Municipality	1-5 Years	6-10 Years	+ 10 Years	Total*
Ingersoll	\$15.6	\$16.5	<mark>\$19</mark> .1	\$51.2
Tillsonburg	\$19.8	\$7.7	\$16.2	\$43.6
Woodstock	\$45.9	\$21.4	\$39.3	\$87.2
Blandford Blenheim	\$8.6	\$4.9	\$6.3	\$19.8
Norwich	\$2.7	\$3.9	\$4.1	\$10.6
SW Oxford	\$0.4	\$2.8	\$11.1	\$14.4
East Zorra Tavistock	\$9.5	\$13.1	\$1.2	\$23.8
Zorra	\$2.3	\$1.5	\$1.9	\$5.6

Plan Totals**	\$104.8	\$71.8	\$99.1	\$275.7
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*Municipality Total Projects are detailed in the Appendix.

**Plan Totals may not add precisely due to rounding.

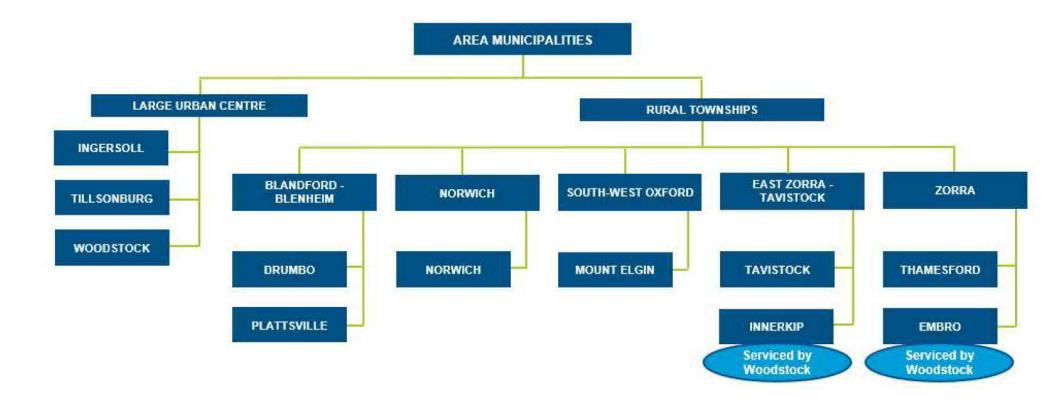


MS23

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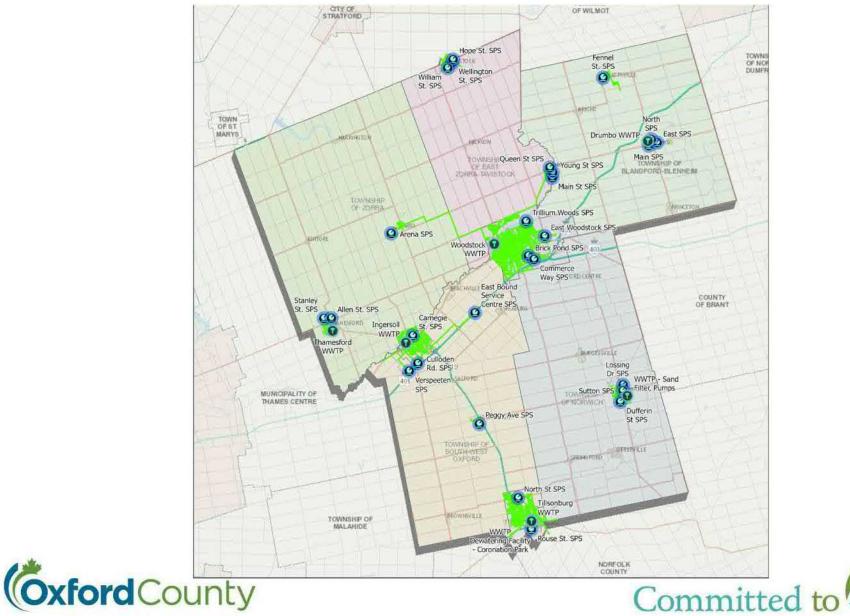
COUNTY WASTEWATER SYSTEMS







EXISTING WASTEWATER INFRASTRUCTURE



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WASTEWATER SYSTEM COMPONENTS

Component	Solutions Reviewed	
	Local Gravity Sewers	
	Trunk Sewers	
Wastewater Collection and Conveyance	Sanitary Pumping Station	
	Forcemain	
	 Siphon (gravity flow underneath river) 	
	 Headworks (to screen sewage) 	
	 Liquid Treatment of wastewater (primary and secondary treatment) 	
Wastewater Treatment	 Tertiary Treatment (where required) to reduce nutrients in wastewater 	
	Disinfection	
	 Solids Management (treatment, storage, disposal) 	
	 Wet weather flow treatment (in some cases) 	
	 Septage receiving (in some cases) 	
Oxford County	Committed to	



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WASTEWATER SYSTEM OPPORTUNITY AND CONSTRAINTS

- Security of conveyance and treatment
 - (i.e., standby power to pumping stations and WWTPs, need for facility resilience due to climate change, etc.);
- System redundancy
 - (i.e., treatment train flexibility, solids handing capacity at WWTP(centrifuges) and lagoons, forcemain twinning, Additional trunk sewer redundancy, etc.)
- Impacts due to new areas requiring servicing
 - Collection system expansion
 - (i.e., infill and intensification, new employment lands, secondary units, etc.)
- Wastewater treatment and Sewage Pumping Station operational issues
 - (i.e., wet weather events, odour control, maintenance of discharge criteria etc.);
- Infrastructure capacity limitations
 - Changing regulations and treatment requirements due to limitations of capacity of receiving streams (i.e., nutrients, etc.), emerging contaminants; and
 - Physical capacity limits (i.e., pumping station capacity, sewer and forcemain capacity, treatment train refurbishment, etc.)
- Collection system inflow and infiltration





WASTEWATER SERVICING ALTERNATIVE SOLUTIONS

County Level Solutions (common to all potential projects)

- Alternative 1 (Do Nothing) would not provide the water and servicing capacity to the existing and planned growth
 - > Not considered moving forward
- Alternative 2 (Limit Growth) neither meets the County's vision for the growth centres and nor does it mitigate the water servicing risks for the existing serviced population
 - > Not considered moving forward
- Alternative 3 Infiltration/Inflow Reduction County has specific ongoing initiatives
 - > Should continue and be augmented
- Alternative 4 Wastewater System Servicing Concepts ex: new linear infrastructure, pumping, treatment expansions, etc.





WASTEWATER SERVICING ALTERNATIVE SOLUTIONS

Component	Sub-Components
Wastewater Collection and Conveyance	 Reduce inflow and infiltration to sewers Refurbish/upsize existing sewers New sewers Refurbish and upsize existing SPS and forcemains Build new SPS and forcemains Revise existing or create sanitary sewer catchment areas
Wastewater Treatment	 Reduce inflow and infiltration to sewers Optimize existing WWTPs or components Refurbish/Expand WWTPs or components Send sewage to another WWTP via SPS and forcemain Send effluent to a different receiving stream
Risk	 Reduce inflow and infiltration to sewers Backup power generation System redundancy and reliability Resiliency Understand emergent threats





TOWN OF INGERSOLL

Ingersoll WWTP

SERVICING CAPACITY:

> Adequate WWTP capacity to 2046

• KEY INFRASTRUCTURE PROJECTS:

- > Wastewater system extension to service South West Industrial Park – Trunk sewers, SPS, forcemains including Hwy 401 crossings
- > Wallace Line and Hamilton Road Trunk sewers
- > Second trunk sewer crossing of Thames River
- > WWTP Headworks Upgrade





Tillsonburg WWTP

SERVICING CAPACITY:

> Planned WWTP capacity expansion to serMS26 on hold development and future growth beyond 2041

• KEY INFRASTRUCTURE PROJECTS:

- > WWTP Phase II Capacity Expansion
- > WWTP Sewer Trunk Replacement/Upsizing
- > Climate change resilience study for WWTP & SPS
- > Stoney Creek Trunk Sewer Rehabilitation
- > Upgrades to John Pound SPS and forcemains
- > Wastewater system extension to service residential and employment infill – Trunk sewers / upsizing, Rouse St SPS upgrades





CITY OF WOODSTOCK

Woodstock WWTP

• SERVICING CAPACITY:

- > Adequate WWTP capacity to year 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > Trunk Sewer Inspection and Infiltration & Inflow Reduction
 - > Upgrades to WWTP Headworks & Thames Valley SPS
 - > Brick Pond Trunk Sewer Realignment
 - > Wastewater system extension to service infill and new secondary plan areas: East Woodstock, NE Industrial Park, SE Industrial Park and Karn Rd – Trunk sewers, SPS (Landsdowne, SPS A), Forcemains





TOWNSHIP OF BLANDFORD BLENHEIM

Drumbo WWTP

- SERVICING CAPACITY:
 - > Planned WWTP capacity expansion to service on hold development
- KEY INFRASTRUCTURE PROJECTS:
 - > WWTP Phase II Capacity Expansion

Plattsville WWTP

- SERVICING CAPACITY:
 - > Adequate WWTP capacity to year 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > WWTP optimization projects
 - > Lagoon Biosolids Removal and Berm Repair
 - Wastewater system expansion to service infill areas (SPS and Forcemain Upgrades/Upsizing)





TOWNSHIP OF NORWICH

Norwich WWTP

• SERVICING CAPACITY:

> Planned WWTP capacity expansion to service on hold development and future growth

• KEY INFRASTRUCTURE PROJECTS:

- > WWTP Phase 2 Capacity Expansions
- > Lagoon Biosolids Removal and Berm Repair





TOWNSHIP OF SOUTH-WEST OXFORD

Mount Elgin WWTP

- SERVICING CAPACITY:
 - >Planned WWTP capacity expansions to service onhold development
- KEY INFRASTRUCTURE PROJECTS:
 - >WWTP Phase 3 and 4 Capacity Expansions
 - > Forcemain Interconnection to Ingersoll Wastewater System





TOWNSHIP OF EAST ZORRA-TAVISTOCK

Tavistock WWTP

- SERVICING CAPACITY:
 - > Planned WWTP capacity expansion to service future growth

• KEY INFRASTRUCTURE PROJECTS:

- > WWTP Capacity Expansion
- > Trunk Sewer Infiltration & Inflow Reduction
- > William St SPS Capacity Upgrades
- > Wastewater system expansion/upsizing for growth

Innerkip WW System (to Woodstock)

- SERVICING CAPACITY:
 - > Collection System Constraints by 2026
- KEY INFRASTRUCTURE PROJECTS:
 - > Upsize or twin forcemain to Woodstock to allow for community growth





TOWNSHIP OF ZORRA

Thamesford WWTP

SERVICING CAPACITY:

- > Adequate WWTP capacity to year 2046
- KEY INFRASTRUCTURE PROJECTS:
 - > WWTP upgrades

Embro WW System (to Woodstock)

> Collection System Constraints by 2041

• KEY INFRASTRUCTURE PROJECTS:

- > Upgrade SPS to allow for community growth
- > Upsize or twin forcemain to Woodstock to allow for community growth





WASTEWATER CAPITAL IMPLEMENTATION PROGRAM (\$ millions)

Municipality	1-5 Years	6-10 Years	+ 10 Years	Total*
Ingersoll	\$13.1	\$26.3	\$37.7	\$77.1
Tillsonburg	\$7.2	\$5.5	\$24.1	\$36.7
Woodstock	\$30.1	\$25.7	\$32.8	\$88.6
Blandford Blenheim	\$3.9	\$0.6	\$1.0	\$5.5
Norwich	\$11.8	\$1.9	\$1.8	\$15.5
SW Oxford	\$2.8	\$1.0	\$11.2	\$15.0
East Zorra Tavistock	\$55.6	\$4.1	\$8.3	\$68.0
Zorra	\$3.8	\$0.0	\$12.4	\$16.2

 Plan Totals**
 \$128.2
 \$65.1
 \$129.2
 \$322.5

*Municipality Project Totals are rounded from the Appendix.

**Plan Totals may not add precisely due to rounding.





SUPPORTING POLICIES AND STRATEGIES

Project Description	1-5 Year	6-10 Year	+10 Year	Total
Fire Rated Systems Policy	\$50,000			\$50,000
Backup Power Prioritization Policy	\$35,000			\$35,000
Consultation for Servicing Upgrades Policy	\$75,000	\$75,000	\$150,000	\$300,000
Connected Systems Rate Servicing Policy	\$75,000	\$75,000	\$75,000	\$225,000
2029 Water and Wastewater Master Plan	\$450,000			\$450,000
2034 Water and Wastewater Master Plan		\$450,000		\$450,000
2039 Water and Wastewater Master Plan			\$450,000	\$450,000
2044 Water and Wastewater Master Plan			\$450,000	\$450,000
2029 Development Charges Technical Study		\$100,000		\$100,000
2034 Development Charges Technical Study		\$100,000		\$100,000
2039 Development Charges Technical Study			\$100,000	\$100,000
2044 Development Charges Technical Study			\$100,000	\$100,000
Total	\$685,000	\$800,000	\$1,325,000	\$2,810,000





OXFORD'S W/WW MP – PROJECT SCHEDULE

County Council Master Plan Report July 12, 2023

Seek approval to issue Notice of Completion
 Initiation of 45-day public and agency Review Period

Filing of Final Master Plan – September 2023





OXFORD'S W/WW MP

THANK YOU FOR ATTENDING!

Material on this meeting will be posted on the **Speak Up, Oxford!**

https://speakup.oxfordcounty.ca/wwwmp

Please feel free to "raise your hand" to ask a question or submit your comments via email or phone a member of the study team or vial the Speak Up, Oxford site

Don Ford, BA, CMM III, C.Tech. Manager, Water and Wastewater Oxford County 519-539-9800 x3191 dford@oxfordcounty.ca





John Tyrrell, P.Eng. Senior Project Manager R.V. Anderson Associates Limited 519-681-9916 x 5038 jtyrrell@rvanderson.com



arva



R.V. Anderson Associates Limited 557 Southdale Road East, Suite 200 London ON N6E 1A2 Canada T 519 681 9916 F 855 833 4022 rvanderson.com

MEMORANDUM



To:	File	Date:	June 27, 2023	
From:	John Tyrrell	Project No.:	216063	
Subject:	Oxford 2024 W/WW MP PCC# 2			

Attendance List

The following is the list of participants and attendees who logged on during the PCC.

Name	First Join	Last Leave
John Tyrrell	6/27/23, 5:54:48 PM	6/27/23, 7:23:19 PM
Deb Gilvesy (Guest)	6/27/23, 5:43:40 PM	6/27/23, 7:20:48 PM
Don Ford (Guest)	6/27/23, 5:46:48 PM	6/27/23, 7:25:54 PM
Mackenzie Schultz	6/27/23, 5:52:19 PM	6/27/23, 7:21:43 PM
Andrew Gilvesy (CJDL) (Guest)	6/27/23, 5:53:23 PM	6/27/23, 7:23:27 PM
Steve Peterson	6/27/23, 5:55:28 PM	6/27/23, 7:09:54 PM
Steve Peterson (Guest)	6/27/23, 5:55:45 PM	6/27/23, 7:09:46 PM
Jonathon Graham - Tillsonburg (Guest)	6/27/23, 5:57:00 PM	6/27/23, 6:49:34 PM
Dave Piggott	6/27/23, 5:57:04 PM	6/27/23, 7:22:26 PM
Tom Lightfoot	6/27/23, 5:57:17 PM	6/27/23, 7:21:16 PM
Kim piggott	6/27/23, 5:57:59 PM	6/27/23, 6:06:37 PM
John and Kathy Lafferty (Guest)	6/27/23, 5:58:32 PM	6/27/23, 6:58:01 PM
David Simpson (he/him) (Guest)	6/27/23, 5:59:21 PM	6/27/23, 6:03:14 PM
Justin Diotte (Guest)	6/27/23, 6:00:45 PM	6/27/23, 7:20:50 PM
MN (Guest)	6/27/23, 6:01:08 PM	6/27/23, 6:01:51 PM
Tommy (Guest)	6/27/23, 6:01:12 PM	6/27/23, 7:21:09 PM
Matthew Jauernig (Guest)	6/27/23, 6:01:19 PM	6/27/23, 7:20:45 PM
Phil Sheridan, SCS Consulting Group (Guest)	6/27/23, 6:01:28 PM	6/27/23, 7:20:49 PM
Renato Pullia	6/27/23, 6:01:31 PM	6/27/23, 6:11:45 PM
Rob Osmond (Guest)	6/27/23, 6:01:43 PM	6/27/23, 7:20:54 PM
Matt Ninomiya (Guest)	6/27/23, 6:02:12 PM	6/27/23, 7:21:06 PM
Mark Schadenberg	6/27/23, 6:02:15 PM	6/27/23, 7:20:58 PM
Heather St. Clair (Guest)	6/27/23, 6:02:25 PM	6/27/23, 7:20:49 PM
Dustin (Guest)	6/27/23, 6:03:07 PM	6/27/23, 7:22:48 PM
David Simpson (He/Him	6/27/23, 6:04:05 PM	6/27/23, 6:05:14 PM
Councillor Phi Schaefer (Guest)	6/27/23, 6:04:38 PM	6/27/23, 7:27:03 PM
David Simpson (he/him) (Guest)	6/27/23, 6:05:40 PM	6/27/23, 6:10:18 PM
Guest	6/27/23, 6:09:10 PM	6/27/23, 6:10:18 PM



Name	First Join	Last Leave
Jenna	6/27/23, 6:09:54 PM	6/27/23, 6:53:48 PM
Guest	6/27/23, 6:10:50 PM	6/27/23, 7:21:07 PM
Renato Pullia	6/27/23, 6:11:40 PM	6/27/23, 7:20:59 PM
David Simpson (he/him) (Guest)	6/27/23, 6:16:16 PM	6/27/23, 7:20:45 PM
Kyle Pratt (Guest)	6/27/23, 6:23:36 PM	6/27/23, 7:22:11 PM
Grueneis, Karl	6/27/23, 7:11:02 PM	6/27/23, 7:23:50 PM

Questions Asked During PCC# 2

Deb Gilvesy

Q – As everything hinges on population, from where did Oxford 2024 W/WW MP study derive population projections? Numbers look a little low

A- MP numbers for population growth were provided by the Oxford County Planning Department based on their assessment during the MP process. As the MP is to be redone every 5 years, the population projections and the servicing demand arising from it can be recalculated at this time – John Tyrrell

Mark Schadenberg

Q1 - Which communities have a lagoon for waste water? Innerkip? Mt Elgin ? A1 - Lagoons are found in Norwich, Plattsville, Tavistock. Innerkip wastewater goes to Woodstock WWTP – Don Ford

Q2 - If Innerkip needs expanded line to Woodstock treatment play, why not discontinue new home construction in Innerkip to save farmland in East Zorra Tavistock. Woodstock is the residential hub, not Innerkip.

A2- Additional servicing to Innerkip will be along road allowances and current County owned lands – David Simpson Any impacted lands from development in Innerkip has been or would be approved by Council as it is a growth area – John Tyrrell

Phil Sheridan

- Q When will the presentation be posted?
- A As soon as possible, hopefully tomorrow Don Ford

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APPENDIX 2.4.4 SUO Lifetime Summary





Speak Up, Oxford!

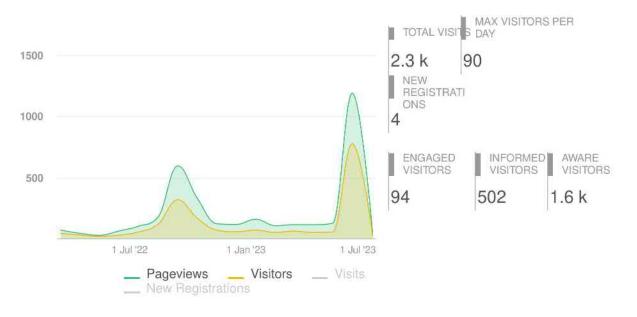
PROJECTS SELECTED: 1

Water and Wastewater Master Plan FULL LIST AT THE END OF THE REPORT



Visitors Summary

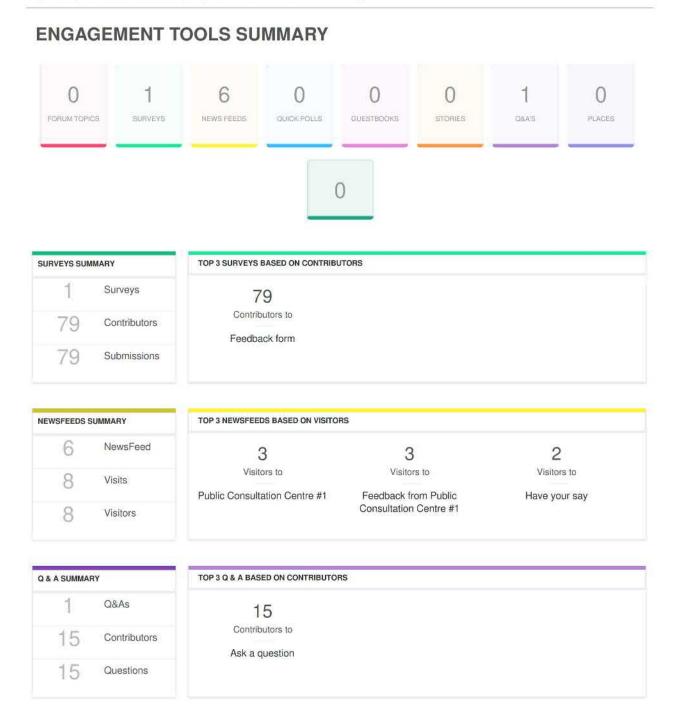
Highlights



PARTICIPANT SUMMARY

ENGAGED	94 ENGAGED PARTICIPANT	S			(%)
		Registered L	Inverified A	nonymous	Water and Wastewater Mas 94 (5.8%)
	Contributed on Forums	0	0	0	
	Participated in Surveys	З	76	0	
INFORMED	Contributed to Newsfeeds	0	0	0	
	Participated in Quick Polls	0	0	0	
	Posted on Guestbooks	0	0	0	
	Contributed to Stories	0	0	0	
	Asked Questions	4	11	0	
	Placed Pins on Places	0	0	0	
	Contributed to Ideas	0	0	0	
	* A single engaged	participant can	perform mult	tiple actions	* Calculated as a percentage of total visits to the Project
ENGAGED	502 INFORMED PARTICIPAN	ITS			(%)
				Participants	Water and Wastewater Mas 500 (30.8%)
	Viewed a video			0	
INFORMED	Viewed a photo			0	
INFORMED	Downloaded a document			320	
	Visited the Key Dates page			57	
	Visited an FAQ list Page			0	
	Visited Instagram Page			0	
	Visited Multiple Project Pages			220	
	Contributed to a tool (engaged)			94	
	* A single informed	participant can	perform mult	tiple actions	* Calculated as a percentage of total visits to the Project
ENGAGED	1,625 AWARE PARTICIPANTS	5			
				Participants	Water and Wastewater Mas 1,625
	Visited at least one Page			1,625	
INFORMED					
AWARE					
	* Aware user could have also pe	rformed an Info	rmed or Eng	aged Action	* Total list of unique visitors to the project





INFORMATION WIDGET SUMMARY

		6 DOCUMENTS	O PHOTOS VI	0 DEOS	0 Faqs	1 Key dates	c
OCUMENTS		TOP 3 D	DOCUMENTS BASED ON DOW	VNLOADS			
6	Documents		164	1	81		111
320	Visitors	P	Downloads		wnloads e of study	Notice	Downloads
583	Downloads		ultation Centre #1 (Sept 29)		ement: Oxford	Centre	e #1: Oxford County nd Wastewater Master
EY DATES		TOP 3 H	KEY DATES BASED ON VIEWS	3			
1	Key Dates		74				
57	Visitors		Views				
74	Views	Water	and Wastewater Master Plan				



TRAFFIC SOURCES OVERVIEW

	N P N
REFERRER URL	Visits
www.google.com	258
m.facebook.com	197
lm.facebook.com	98
l.facebook.com	97
www.oxfordcounty.ca	72
m.youtube.com	39
www.google.ca	29
www.heartfm.ca	22
youtube.com	16
t.co	14
www.bing.com	11
android-app	5
www.youtube.com	5
googleads.g.doubleclick.net	4
intranet4.oxfordcounty.local	2

SELECTED PROJECTS - FULL LIST

PROJECT TITLE	AWARE	INFORMED	ENGAGED
Water and Wastewater Master Plan	1625	502	94

