Lower Trent Conservation Inventory of Programs and Services

	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationale Act/Regs	Program 2023 Cost Estimate (\$)	Funding mechanism and percentage of costs
_	Description: Key assistance	provided to all departments of the conservation authority, rvation to operate in an accountable, transparent, efficient		ectors, mem		
	Corporate Services Administration Human Resources	Administrative, human resources, operating and capital costs which are not directly related to the delivery of any specific program or service, but are the overhead and support costs of a conservation authority. Includes health and safety program, overseeing programs and policies.	1	CA Act 21.1	\$797,825	Municipal Levy - 67% Self-Generated – 33%
	Financial Services	Annual budget, accounts payable and receivable, payroll, financial analysis, financial audit, administration of reserves and investments, financial reports for funding agencies, preparing and submitting reports to CRA, benefits program administration.	1	CA Act 21.1		
	Legal Expenses	Costs related to agreements/contracts, HR, etc.	1	CA Act 21.1		
	Governance	Supporting CA Boards, Advisory Committees, Office of CAO/ST	1	CA Act Part IV		
	Communications and Outreach	Public awareness-natural hazards, flood forecasting and warning, permitting requirements, natural hazard identification, mitigation, readiness and response, governance, policy, municipal and public relations and engagement, conservation lands. Website and social media content management.	1	CA Act 21.1		
	Administration Buildings	Office buildings and workshop used to support LTC staff, programs, and services. Includes utilities, routine and major maintenance, property taxes.	1	CA Act 21.1		
	Information Management/ Information Technology/GIS	Data management, records retention. Development and use of systems to collect and store data and to provide spatial geographical representations of data. Data collection, mapping, data sets, watershed photography. This includes geographical information systems and support.	1	CA Act 21.1		

Update: August 17, 2023

	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationale Act/Regs	Program 2023 Cost Estimate (\$)	Funding mechanism and percentage of costs
		am Description: Conservation Authorities (CAs) are the lead	•	-		_
-		ing and erosion. This watershed-wide, comprehensive prog		•		
		al planning and policy, flood forecast and warning, flood an	d erosion co	ntrol infrast	ructure, technica	al studies, ice
manageme	ent, education, and public		_	1		
	Section 28 Permit	Reviewing and processing permit applications,	1	CA Act	\$605,638	Municipal Levy – 43%
	Administration	associated technical reports, site inspections,		21.1(1)		
		communication with applicants, agents, and consultants				Self-Generated – 57%
		and legal costs.				
	Enforcement and	Under Part VII of the Conservation Authorities Act –	1	CA Act		
	Compliance	enforcement and compliance to Part VI Section 28		21.1(1),		
		permits		28		
	Municipal Plan Input	Technical information and advice to municipalities on	1	CA Act		
	and Review	circulated municipal land use planning applications		21.1(1)		
		(Official Plan and Zoning By-law Amendments,				
		Subdivisions, Consents, Minor Variances). Input to				
		municipal land-use planning documents (OP,				
		Comprehensive ZB, Secondary plans) related to natural				
		hazards, on behalf of Ministry of Northern				
		Development, Mines, Natural Resources and Forestry				
		(MNDMNRF), delegated to CAs (1983). Input to the				
		review and approval processes under other applicable				
		law, with comments principally related to natural				
		hazards, wetlands, watercourses, and Sec. 28 permit				
		requirements.				
	Flood Forecasting and	Daily data collection and monitoring of weather	1	CA Act	\$68,831	Provincial Transfer
	Warning	forecasts, provincial and local water level forecasts,		21.1(1)		Payment – 100%
		watershed conditions, snow surveys, flood event				
		forecasting, flood warning, communications and				
		response and equipment maintenance. Annual meeting				
		with municipal flood emergency coordinator.				

	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationale Act/Regs	Program Cost Estimate (\$)	Funding mechanism and percentage of costs
	LTC Owned	Water and erosion control infrastructure	1	CA Act	\$75,591	Municipal Levy –
	Flood and Erosion	operations and management. Includes all water		21.1(1)		100%
	Control	management structures (flood control, dams and				
	Infrastructure	channels, berms, erosion control, etc.) that are				
	Operation and	annually inspected, and routine maintenance				
	Management	work completed. These structures are included				
		in the asset management plan.				
	Non-LTC Owned	Water and erosion control infrastructure	2	CA Act	\$5,916	Municipal Levy –
	Flood and Erosion	operations and management. Includes all water		21.1.1		100%
	Control	management structures (flood control, dams and				
	Infrastructure	channels, berms, weirs, erosion control, etc.)				Benefit Based
	Operation and	that are annually inspected, and routine				Apportionment Levy
	Management	maintenance work completed.				– 100% for 2024
	Flood and Erosion	Major maintenance on flood and erosion control	1	CA Act	Varies from year to year	Provincial WECI– 50%
	Control	structures as required. Projects are dependent		21.1(1)		Benefit Based
	Infrastructure Major	on Water and Erosion Control Infrastructure				Apportionment Levy
	Maintenance	(WECI) funding from the province and support				- 50%
		from our municipal partners.				
NEW	Low Water Response	Conditions monitoring and analysis. Technical	1	CA Act	Currently included	Municipal Levy –
		and administrative support to the Water		21.1(1)	under FFW	100%
		Response Team representing major water users				
		and decision makers, who recommend drought				
		response actions.				
	Natural Hazards	Promote public awareness of natural hazards	1	CA Act	\$9,259	Municipal Levy –
	Communications,	including flooding, drought, and erosion.		21.1(1)		100%
	Outreach and	Attending public events, supplying materials.				
	Education	Social media services. Media relations. Educate				
		elementary school students and the public about				
		the danger of floodwaters, dangers of dams, etc.				
	Technical Studies and	Studies and projects to inform natural hazards	1	CA Act	Varies from year to year	Municipal %
	Policy Review	management programs including floodplain		21.1(1)		Province % Federal %
		management, watershed hydrology, regulations				Other Grant funding
		areas mapping updates, flood forecasting system				when available
		assessment, floodplain policy, Floodplain				
		(FHIMP) project management. These projects				FHIMP
		often last one to two years and are distributed				Municipal – 50%

		over time as human resources and funding is available.					Federal – 50%
	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationals Act/Regs	(\$)	n Cost Estimate	Funding mechanism and percentage of costs
Provincial \	Water Quality and Quar	ntity Monitoring					
_	•	Conservation, in partnership with Ministry of Envir		-		•	ablished long term sites
to monitor		er conditions as well as an investment into long-te	erm monitor	ing of clima	te change t		
	Provincial Water	CA/MECP partnership for stream water quality		1	CA Act	\$10,112	Municipal Levy – 100%
	Quality Monitoring	monitoring at 9 sites. LTC staff take water samp			21.1(1)		
	Network (PWQMN)	MECP does lab analysis and data management.			O. Reg.		
		Information is used for watershed report cards	and		686/21		
		watershed project prioritization.			12 (1) 2		
	Provincial	A long-standing CA/MECP partnership for ground			CA Act		Municipal Levy – 100%
	Groundwater	level and quality monitoring at 11 stations. Cos			21.1(1)		
	Monitoring Network	equipment, data collection, analysis, data mana	_		O. Reg.		
	(PGMN)	and reporting. MECP funded network installation			686/21		
		continues to fund equipment replacements. Da			12 (1) 1		
		collected supports flood forecast and warning,					
		water response, and water quality monitoring a	and				
		watershed report cards.					
	er Monitoring						
_	•	Conservation, in partnership with community orga		•		•	agencies has
established		e water quality and quantity as well as many other	· · · · · · · · · · · · · · · · · · ·			1	
	Surface Water Quality	. ,	-		CA Act	\$46,235	Municipal Levy – 100%
	Monitoring	(in addition to PWQMN), 9 additional surface w			21.1.2		2024 14011 4000/
	Danthia	quality monitoring locations, benthic monitorin	•				2024 MOU – 100%
	Benthic	OBBN sites across the watersheds. Costs includ					
	Macroinvertebrates	equipment and calibration, sampling, analysis,					
	Dasoflow Monitorina	reporting. Information is used for watershed re	port				
	Baseflow Monitoring	cards and watershed project prioritization.					

	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationale Act/Regs	Program Cost Estimate (\$)	Funding mechanism and percentage of costs
Drinking	Water Source Protection		<u> </u>		<u> </u>	
Program	Description: The protection	of municipal drinking water supplies in the Trent Conserva	tion Coalitic	n (TCC) Regi	on and the Lowe	er Trent Conservation
Source Pr	rotection Area through the	development and implementation of TCC Source Protection	n Plans. The	TCC is a com	plex regional gro	ouping of five Source
Protectio	n Areas including Lower Tre	ent, Crowe, Otonabee, Kawartha and Ganaraska Conservati	on Authoriti	es		
	Regional Drinking Water Source Protection Program (DWSP)	Coordination of the Trent Conservation Coalition Source Protection Region. Governance support of the Source Protection Committee, administration, technical support. Section 34, 35 and 51 amendments, Section 36 reviews of the Source Protection Plans and Assessment Reports. Activities required by the Clean Water Act and regulations.	1	CA Act 21.1(1) Clean Water Act	\$332,071	Provincial Transfer Payment– 100 %
	Local Source Protection Area DWSP	Source Protection Authority reports, meetings and governance. Delivery of the Activities required by the Clean Water Act and regulations.	1	CA Act 21.1(1) Clean Water Act	\$56,211	Provincial Transfer Payment – 100%
	DWSP Risk Management Official	Carrying out Part IV duties of the Clean Water Act on behalf of municipalities through service agreements.	2	CA Act 21.1.1	\$104,000	Existing Municipal Agreements – 100 %
						2024 MOU – 100%
	DWSP Education and Outreach	Carrying out Source Protection Plan policy G5: Education and Outreach specified action responsibilities on behalf of municipalities through service agreements.	2	CA Act 21.1.1	\$18,120	Existing Municipal Agreements – 100 % 2024 MOU – 100%
Watershe	ed-based Resource Manage	ement Strategy	I.			
Program and resto objective	Description: The purpose or ore the health of the waters as, indicators, and managem	f a watershed plan is to understand the current conditions of hed. Watershed strategies provide a management framewoment recommendations. This addresses existing issues in the late actions to protect, enhance, and restore the watershed	ork to provice watershed	de recommer	ndations which o	consists of goals,
NEW	Strategy Development	New Project: Collate/compile existing resource	1	CA Act	\$36,768	Surplus Funds – 100%
		management plans, watershed plans, studies, and data. Strategy development, implementation, and annual reporting. This project builds on previous Watershed Management Strategies.		21.1(1) O. Reg. 686/21 12 (1) 3	, 23, 25	

	Program/Service and Subservices	Description	Category (1,2,3)	Category Rationale Act/Regs	Program Cost Estimate (\$)	Funding mechanism and percentage of costs
Program D farmland a	nd flood control structure	onservation owns over 3,707 acres (1,500 ha) of land which es and surrounding land. Lower Trent Conservation, propert tershed Management Strategy and provides areas for passi	ty is essentia	al to watersh		
	Section 29 Enforcement and Compliance	Conservation Areas regulation enforcement and compliance.	1	CA Act 21.1(1) CA Act 29	\$330,646	Municipal Levy – 100 %
	Conservation Lands Management	Management and maintenance of all LTC properties including 10 conservation areas and 7 natural heritage areas with over 20 kilometers of recreational trails. Includes passive recreation, forest management, risk management program, hazard tree management, gates, fencing, signage, brochures, communications, pedestrian bridges, trails, parking lots, pavilions, roadways, stewardship, restoration, ecological monitoring, carrying costs such as taxes and insurance.	1	CA Act 21.1(1)		Municipal Levy – 80%, Self-Generated – 20% Costs greater than \$5,000 in capital budget
	Major Maintenance	Major maintenance and capital improvements to support public access, safety, and environmental protection such as pedestrian bridges, boardwalks, pavilions, trails.	1	CA Act 21.1(1)		Municipal Levy – 100% Major works greater than \$5,000 in capital budget
	Land acquisition	Strategic acquisition of environmentally significant properties.	2/ 3	CA Act 21.1	varies	
	Vehicles and Equipment	Vehicles and equipment to support the work of LTC, including, fuel, licenses, repairs, and maintenance. Programs and projects are charged for the use of the vehicles and equipment.	1	CA Act 20	\$16,365	Municipal Levy - 100% Costs greater than \$5,000 in capital budget
NEW	Conservation Authority Lands Inventory	New Project: The land inventory will include the following information: location, date obtained, method and purpose of acquisition, land use. Project updates as inventory changes.	1	CA Act 21.1(1) O. Reg. 686/21 9 (3)	unknown	Municipal Levy – 100%
NEW	Conservation Lands and Area Strategy	New Project : A strategy to guide the management and use of CA-owned or controlled properties including guiding principles, objectives, land use, natural heritage,	1	CA Act 21.1(1)	Combined with WBRMS	

		classifications of lands, mapping, identification of programs and services on the lands, public consultation, publish on website. Updates of existing conservation area management plans.		O. Reg. 686/21 9 (1)		
NEW	Land Acquisition and Disposition Policy	Update : Update current policy to guide the acquisition and disposition of land to fulfill the objects of the authority.	1	CA Act 21.1(1) O. Reg. 686/21 9 (2) vi	unknown	Municipal Levy – 100 %

Program/Service and	Description	Category	Category	Program	Funding mechanism
Subservices		(1,2,3)	Rationale	Cost	and percentage of
			Act/Regs	Estimate (\$)	costs

Special Projects

Program Description: Lower Trent Conservation delivers other programs that are not part of the mandatory programs and services as outlined in O. Reg. 686/21. Most of these programs are funded without municipal levy but occasionally there are opportunities for municipal participation based on special benefitting funding. All of the programs influence and enhance the health and watershed management of the LTC. They are part of a larger integrated watershed management model.

Bay of Quinte	To fulfil the delisting criteria for the Bay of Quinte Area	3	Great	\$215,000	Provincial funding -
Remedial Action Plan	of Concern under the Great Lakes Water Quality		Lakes	, — — — — — — — — — — — — — — — — — — —	50%
Office	Agreement. Includes governance, administration,		Water		
	stakeholder and public outreach, First Nation		Quality		Federal Funding - 50%
	engagement, communications, stewardship programs,		Agreement		
	data complication and analysis, science coordination				No Municipal funding,
	and review, strategic planning and reporting		CA Act		no MOU/agreement
			21.1.2		required
Youth Education	The portion of the education program not directed to	3	CA Act	\$92,118	Self-Generated –100%
	mandated programs primarily centered on watershed		21.1.2		
	and natural environment curriculum				2024 MOU - 0.5 FTE
Community Outreach	Programs that include stewardship and community	3	CA Act	\$25,000	Municipal Levy – 90%
and Stewardship	outreach. Examples include the annual native plant and		21.1.2		Self-Generated – 10%
	wildflower sales, private land stewardship including tree				
	planting, guided conservation area field trips, webinars,				2024 MOU - 0.2 FTE
	50 Million Tree program, etc.				and related expenses

NEW	Future Initiatives	Opportunities for new projects that benefit the	3	CA Act	
		watershed and its municipal partners can occur anytime		21.1.2	
		and can have varying durations. These projects may			
		require matching funding or be self-sustaining. New			
		projects may require municipal participation and/or			
		funding. Examples include but are not limited to:			
		Watershed/Subwatershed Plans			
		Technical Projects			
		Mapping Projects			
		Stewardship and Restoration			
		Flood and Erosion Control			
		Significant Partnership Opportunities			

Appendix 1

Caveats -

- 1) All of the financial information provided is based on estimates, including the percentage of the total annual fund contributions of the various funding providers.
- 2) Under O. Reg. 687/21 Section 6. (2)(c)(i)(D) if the authority is of the opinion that the average annual cost determined under sub-subclause (A) or (B) does not reflect the average annual cost to provide the program or service in the future, adjust the average annual cost and provide an explanation for this adjustment

The costs associated with each program and service are estimated based on the 2023 approved budget for Lower Trent Conservation. Due to the COVID pandemic affecting costs for the past few years, a five-year estimate is not reflective of current and future costs. The costs for programs and services increase annually due to increases in wages and benefits and the increased operational costs due to inflation. As well program operations are often modified based on best management practices.

3) The financial information included in the tables are associated with operational costs only.

Appendix 2

Category 2 Summary Information

New or	Category 2 Service	Participating Municipalities	Date of agreement
Existing MOUs			(most recent version)
	DWSP Risk Management Official	Alnwick-Haldimand	January 2020
Existing		Brighton	
		Cramahe	
		Stirling-Rawdon	
		Trent Hills	
	DWSP Education and Outreach	Alnwick-Haldimand	January 2020
Existing		Brighton	
		Cramahe	
		Stirling-Rawdon	
		Trent Hills	
NEW	DWSP Education and Outreach	Quinte West	No agreement in place, invoice for service
			MOU required
	Non-LTC Owned Flood and Erosion Control	Quinte West	MOU to be developed, to date the service
NEW	Infrastructure Operation and Management	Trent Hills	has been paid from municipal levy
		Stirling-Rawdon	Category 2 services MOUs required for
			benefit based apportionment
NEW	Future Initiatives		MOUs developed as required
	Opportunities for new programs or services that		
	benefit the watershed and its municipal partners can		
	occur at anytime. These programs and services may be		
	requested by a municipality.		

Appendix 3

Category 3 Summary Information

New or	Category 3 Service	Participating Municipalities	Date of agreement
Existing MOUs			(most recent version)
NEW	Local Water Monitoring Program	All municipalities	No agreement in place, Board directive
			MOU required
NEW	Youth Education	All municipalities	No agreement in place - MOU required
NEW	Community Outreach and Stewardship	All municipalities	No agreement in place - MOU required

Category 3 Summary Information

For existing Category 3 programs and services, the Local Water Monitoring program and Community Outreach and Stewardship have been financed through the levy apportionment.

Youth Education has been self-funded with no municipal funds required.

Future initiatives under Category 3 programs and services, the potential exists to seek funding for projects from municipal partners. Projects that are beneficial to the watershed as a whole or that are benefitting to a particular municipality are variable and generally dependent on other funding sources and their funding criteria.

Lower Trent Conservation will continue to actively search for alternate funding for beneficial watershed and research projects.

Lower Trent Conservation intends to enter into cost apportioning agreements with municipalities as projects are developed and executed, when necessary.