



**Credit Valley
Conservation**
inspired by nature

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January 22, 2024

REGION OF PEEL

OFFICE OF THE REGIONAL CLERK

January 22, 2024

SENT VIA EMAIL

Clerks Department - Credit Valley Conservation Participating Municipalities

RE: CVC Final Report on the Conservation Authorities Act Transition Period

Dear Sir or Madam,

As per Ontario Regulation 687/21 *Transition Plans and Agreements for Programs and Services Under Section 21.1.2 of the Conservation Authorities Act*, I have attached the final inventory of Credit Valley Conservation's (CVC) programs and services. We confirm that the CVC has signed Memorandum of Understanding with all our participating municipalities as outlined in the attached January 19, 2024 report to the CVC Board of Directors.

If you have any further questions, please contact me.

Kind regards,

Tamara Chipperfield, Corporate Secretariat

tamara.chipperfield@cvc.ca

905-670-1615 ext. 420

REFERRAL TO _____

RECOMMENDED _____

DIRECTION REQUIRED _____

RECEIPT RECOMMENDED _____

**Subject: UPDATE ON THE CONSERVATION
AUTHORITIES ACT TRANSITION PERIOD,
INVENTORY OF PROGRAMS AND SERVICES,
AND MUNICIPAL AGREEMENTS**

To: The Chair and Members of the Board of Directors,
Credit Valley Conservation

Purpose: **To inform the Board of Directors of CVC of progress made during the Conservation Authorities Act Transition Period executing Memorandums of Understanding (MOUs) with participating municipalities, including CVC's updated final Inventory of Programs and Services.**

Background:

In recent years, the province has initiated a series of changes to the *Conservation Authorities Act*. (CA Act) Among other changes, these have had the effect of modifying the mandatory services that are offered by conservation authorities (CAs) and created a requirement for conservation authorities to enter into agreements with their participating municipalities to continue with any municipally funded, non-mandatory programs (considered as Category 2 or 3 programs) after December 31, 2023.

As a result of this, conservation authorities have needed to enter into Memorandums of Understanding (MOUs) with participating municipalities regarding the funding of municipally requested (Category 2) programs and services, and cost apportioning agreements for funding of other programs and services the CA determines is advisable to further the purposes of the CA Act (Category 3).

Regular updates have been provided to the Board of Directors regarding these amendments and CVC's progress in executing municipal agreements, including the report, "Changes to the Conservation Authorities Act in Bill 229," at the November 13, 2020 meeting (Resolution #108/20), briefing notes at the December 11, 2020 and February 19, 2021 meetings.

Based on the requirements of O. Reg. 687/21, "Transition Plans and Agreements for Programs and Services Under Section 21.1.2 of the Act," staff presented a transition plan as information to the Board at the December 10, 2021 meeting, and a report including both the transition plan and an inventory of programs and services at the February 18, 2022 meeting (#20/22). Subsequently, we circulated the plan and inventory to the Ministry of Environment Conservation and Parks (MECP) and

participating municipalities before the end of the first phase of the transition period on February 28, 2022.

Through subsequent consultation with participating municipalities, a progress update and revised Inventory of Programs and Services were presented to the Board March 10, 2023 for approval. The six quarterly progress reports prepared for the Ministry between June 2022 and September 2023, as required by O. Reg. 687/21, were also presented to the Board, either in a report, as on March 10, 2023, or as a correspondence item.

CVC is required to submit a final Inventory of Programs and Services to the Ministry of Natural Resources and Forestry and all participating municipalities by January 30, 2024.

Analysis:

In March 2023, Credit Valley Conservation circulated the revised Inventory of Programs and Services to all participating municipalities as well as a draft Memorandum of Understanding for review.

Since that time, CVC staff held meetings with senior staff from all participating municipalities to discuss the draft inventory and work toward Council-endorsed MOUs affirming municipal support of CVC's category 2 programs and services.

CVC staff also met with partner municipalities in our jurisdiction, including Caledon, Brampton, Mississauga, Oakville, and Halton Hills, to discuss the inventory and transition period. Throughout, staff have been working closely with our neighbouring conservation authorities, including Toronto and Region Conservation Authority, Conservation Halton, Nottawasaga Valley Conservation Authority and Grand River Conservation Authority, to ensure consistency and coordination where appropriate.

As of December 2023, CVC has executed Council-approved Memorandums of Understanding with all of our seven participating municipalities, affirming their continued support for Category 2 programs and services as provided in the draft Inventory. The MOUs are for four (4) year terms, except for the Region of Peel MOU, which was set at a one-year term because of the then-anticipated dissolution of the Region of Peel as of December 31, 2024. The MOUs were all council approved by the end of November, 2023, and executed on the following dates:

- Region of Peel, dated December 31, 2023
- Region of Halton dated December 31, 2023
- Town of Orangeville, dated November 13, 2023
- Town of Erin, dated December 31, 2023
- Town of Mono, dated December 31, 2023
- Township of East Garafraxa, dated October 17, 2023
- Township of Amaranth, dated December 31, 2023

The above MOUs include an appended version of CVC's Inventory of Programs and Services, the full and final version of which is included as Schedule 'C', Appendix 1. The only change to the inventory approved by the Board in March 2023 is a minor addition to the description of two programs ("Plan review other than natural hazards" and "Land management, operation and maintenance non-CA lands") to note that these programs will not be delivered by CVC going forward, because of Provincial legislative changes.

As determined through consultation with our participating municipalities, CVC does not currently have any Category 3 programs and services that require a Cost Apportioning Agreement.

The attached inventory is the final version for the purposes of fulfilling the requirements set out in the amended *Conservation Authorities Act*. However, any redistribution of services between the Region of Peel and lower-tier municipalities in Peel could result in the need for future revisions to the inventory. Future changes may also be required to reflect any changes to services that our municipal partners may request. CVC staff will seek Board approval for any major subsequent revisions to the Inventory of Programs and Services.

Communications Plan:

As per O. Reg. 687/21, we will send copies of this report to the Ministry of Natural Resources and Forestry and CVC's participating municipalities.

Financial Implications:

There is no financial impact to CVC for this report.

Conclusion:

In fulfilling the requirements of the *Conservation Authorities Act* Transition Period, CVC has prepared a final Inventory of Programs and Services and executed MOUs with all participating municipalities prior to the December 31, 2023 deadline, to continue to provide Category 2 programs and services.

Recommended Resolution:

THEREFORE BE IT RESOLVED THAT the report entitled, "Update on the *Conservation Authorities Act* Transition Period and Municipal Agreements," be received and appended to the minutes of this meeting as Schedule 'C'; and

THAT the Board of Directors approve this report, and the associated MOUs in fulfillment of the final requirement for submissions due at the end of the Conservation Authorities Act transition period as required by O. Reg. 687/21 of the Act; and

THAT the Board of Directors authorize the Director, Corporate Services and CAO to make minor and administrative adjustments to the Inventory of Programs and Services as required based on ongoing discussions with participating municipalities; and further

THAT the report and Inventory contained herein be circulated to the Ministry of Natural Resources and Forestry (MNRF) as required in advance of January 30, 2024, and also circulated to participating municipalities, Conservation Ontario and neighbouring conservation authorities as appropriate.

Submitted by:

Andrew Kett
Director, Corporate Services

Recommended by:

Quentin Hanchard
Chief Administrative Officer

Credit Valley Conservation Inventory of Programs and Services, version 3 (final), January 19, 2024												
Service Area	Program/Service Name	Reference	Description/Rationale	Category	Method	Cost	Municipal	Fed/Prov	Non-gov	Self-gen	Municipality	MOU date
Watershed Studies and Strategies	Watershed-based Resource Management Strategy	21.1 (1) 2. 686/21 12. (4)	Development of a watershed-based resource management strategy as required by regulation. This is a new program.	1	C	\$100,000	\$100,000	\$0	\$0	\$0	n/a	n/a
Watershed Studies and Strategies	Provincial Groundwater and Stream Monitoring Programs	21.1 (1) 2. 686/21 12. (2) and (3)	A long-standing (20+ and 50+ years respectively) CA/MECP partnership for groundwater level and quality monitoring and stream water quality monitoring.	1	A	\$221,661	\$221,661	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Flood Forecasting and Warning	21.1 (1) 1. i. 686/21 2.	Flood event forecasting and flood warning. Maintenance of real-time streamflow and weather monitoring stations.	1	A	\$1,282,268	\$1,253,015	\$24,585	\$0	\$4,668	n/a	n/a
Natural Hazards Planning and Risk Management	Drought (or low water) Response	21.1 (1) 1. i. 686/21 3.	Drought conditions monitoring, modelling, and analysis.	1	A	\$37,726	\$37,726	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Ice Management	21.1 (1) 1. i. 686/21 4.	The development and updating of an ice management plan. Annual maintenance of the Erin Mills Ice Control Structure.	1	A	\$28,185	\$28,185	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Water and Erosion Control Infrastructure	21.1 (1) 1. i. 686/21 5.	Operation and management of water and erosion control infrastructure and low flow augmentation.	1	A	\$540,892	\$537,672	\$0	\$0	\$3,220	n/a	n/a
Natural Hazards Planning and Risk Management	Natural Hazards Studies and Information Management	21.1.1 (1)	Additional services including studies of surface water hydrology and hydraulics, stream morphology, and potential effects of climate change as related to natural hazards. Quantification of potential damages and mitigation measures.	1	A	\$268,734	\$267,354	\$0	\$0	\$1,380	n/a	n/a
Natural Hazards Planning and Risk Management	Application Review related to natural hazards	21.1 (1) 1. i. 686/21 6.	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.	1	A	\$244,191	\$133,890	\$0	\$0	\$110,301	n/a	n/a
Natural Hazards Planning and Risk Management	Plan Review related to natural hazards	21.1 (1) 1. i. 686/21 7.	Technical information, advice, and input on natural hazard-related matters to municipalities on circulated municipal land use planning applications and strategic documents.	1	A	\$2,054,069	\$1,506,761	\$0	\$0	\$547,308	n/a	n/a
Natural Hazards Planning and Risk Management	Section 28.1 Permit Administration	21.1 (1) 1. i. 686/21 8.	Reviewing and processing permit applications, associated technical reports, site inspections and enforcement of regulations. Development and maintenance of flood hazard maps.	1	A	\$1,168,171	\$743,065	\$42,700	\$0	\$382,406	n/a	n/a
Lands and Conservation Areas	Conservation Areas Strategy and Land Inventory	21.1 (1) 1. ii. 686/21 10.-11.	Development of a Conservation Areas strategy and land inventory as required by regulation.	1	A	\$196,812	\$196,812	\$0	\$0	\$0	n/a	n/a
Lands and Conservation Areas	Land Management, Operation and Maintenance	21.1 (1) 1. ii. 686/21 9. (1) 2. i.-ii.	Management, operation and maintenance of Conservation Authority lands.	1	A	\$3,674,038	\$2,483,884	\$0	\$0	\$1,190,154	n/a	n/a
Lands and Conservation Areas	Land Management, Capital Projects	21.1 (1) 1. ii. 686/21 9. (1) 2. i.-ii.	Capital projects on Conservation Authority lands.	1	A	\$2,015,566	\$2,010,366	\$5,200	\$0	\$0	n/a	n/a

Lands and Conservation Areas	Section 29 Administration	21.1 (1) 1. ii. 686/21 9. (1) 4	Programs and services to ensure that the authority carries out its duties, functions, and responsibilities to administer regulations made under Section 29 and Regulation 688/21.	1	A	\$174,509	\$174,509	\$0	\$0	\$0	n/a	n/a
Lands and Conservation Areas	Restoration and Stewardship CA Lands	21.1 (1) 1. ii. 686/21 9. (1) 2. iv.-v.	Programs and services to conserve, protect, rehabilitate, establish and manage natural heritage within CA lands, including forest management, terrestrial restoration, invasive species management, and aquatic restoration including wetlands and dam removal.	1	A	\$1,637,329	\$1,320,155	\$0	\$0	\$317,174	n/a	n/a
Lands and Conservation Areas	Natural Heritage Management CA Lands	21.1 (1) 1. ii. 686/21 9. (1) 2. iv.-v.	Ecological inventories and monitoring to produce data, mapping and reports that inform planning, development and management of CA lands.	1	A	\$610,006	\$609,046	\$0	\$0	\$960	n/a	n/a
Environmental Resilience	Source Protection Authority	21.1 (1) 1. iii. 686/21 13.	Source Protection Area/Region activities required by the Clean Water Act and regulations.	1	A	\$488,243	\$110,510	\$377,733	\$0	\$0	n/a	n/a
Watershed Studies and Strategies	Watershed and Sub-watershed Planning	21.1.1 (1)	Plans which characterize the land use, stressors, and water resource and natural systems of the study area (Credit River Watershed or subwatersheds). These plans also provide analysis based on stressor and mitigation scenarios, as well as recommend implementation actions to meet study goals and objectives. Identification, prioritization and quantification of multi-flood hazard and climate-related risks and cost-benefit analysis of management options.	2	A	\$845,260	\$828,168	\$13,980	\$0	\$3,112	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Natural Heritage and Ecological Monitoring and Inventory	21.1.1 (1)	Ecological monitoring and inventory outside of Conservation Authority land. Information and mapping used to support watershed and subwatershed studies and municipal planning and natural heritage system management. Assessing vulnerability of natural heritage features (e.g., woodlands, wetlands) and developing approaches to help the natural heritage system adapt to the effects of climate change. Provides technical and administrative supervision of crews working on the Region of Peel Green Infrastructure Inventory and Condition Assessment for natural assets. Information will inform State of Infrastructure Report and an Invasive Species Strategy for the Region of Peel. Coordination of the Peel Urban Forest Strategy refresh. Ecohydrologic monitoring and analysis to improve our understanding of ecologic-hydrologic relationships to inform natural hazard and natural heritage management and support Regional Well development and management in vicinity of Inglewood. Support to the Peel Monitoring and Measures Report. Input to watershed studies, plans, and contributions to restoration monitoring.	2	A	\$2,634,117	\$2,633,637	\$0	\$0	\$480	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Climate Change Risk Management	21.1.1 (1)	Development of risk assessment/management methodology, identification of priority vulnerabilities of multi-flood and erosion hazards, social vulnerabilities and risks to natural and built infrastructure/properties, cost-benefit analysis, prioritized response actions and development of corporate mitigation and adaptation policies and plans. Tracking and documentation, implementation, predicted maintenance frequency of SWM ponds, flood performance of natural/green infrastructure, account for GHG supply chain and carbon sequestration of grey/green/nature-based solutions. Specific Peel Priority Projects include: Flood Risk Assessment, Overland Flood Assessment, Delineation of Peel owned stormwater ditches, support for DMAF applications.	2	A	\$203,218	\$188,975	\$11,650	\$0	\$2,593	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Integrated Water Management Science	21.1.1 (1)	Provision of stormwater management services such as infrastructure inspections, condition assessments, in-field evaluations, design review and climate change risk modelling to support municipal priorities towards advancing stormwater planning, design, operation & maintenance, and life cycle management to satisfy asset management requirements. Development of monitoring plans and delivery of monitoring services to fulfill provincial environmental compliance approval requirements for Peel municipalities. Development and delivery of training, guidance,	2	A	\$1,202,995	\$1,192,453	\$0	\$0	\$10,542	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023

			and knowledge transfer in collaboration with integrated water management implementation programs.									
Watershed Studies and Strategies	Modelling and Analysis	21.1.1.1 (1)	Targeted investigations and local scale modelling including water balance, erosion, and water quality assessments to support management strategies for flooding, natural hazards, and climate resilience, analysis and communication of results. In partnership with the University of Toronto, TRCA and the City of Brampton, examining a suite of SWM ponds through the City of Brampton to determine the cumulative thermal impact on receiving watercourses and pond performance.	2	A	\$296,442	\$291,462	\$0	\$1,800	\$3,180	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Real-time Water Quality Monitoring	21.1.1.1 (1)	Operation of a network of real-time water quality stations monitoring key water quality parameters; data analysis; communication of results to support watershed management.	2	A	\$203,881	\$200,141	\$0	\$2,200	\$1,540	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Natural Assets and Ecosystem Services	21.1.1.1 (1)	Development of methods, guidelines and tools on natural asset management and ecosystem services assessments to address municipal requests and assist CVC and external partners in natural asset planning, management, and restoration. Providing input and leading data analysis and the State of Infrastructure report writing for Region of Peel Natural Green Infrastructure Inventory and Condition Assessment for natural assets on Region of Peel properties. Working in partnerships with municipalities to help them to meet regulatory requirements with respect to natural assets and climate change.	2	A	\$309,263	\$218,895	\$37,400	\$0	\$52,968	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Natural Hazards Planning and Risk Management	Enhanced Flood Plain Mapping Services	21.1.1.1 (1)	Additional services to support expedited flood plain mapping.	2	A	\$232,523	\$224,088	\$8,435	\$0	\$0	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Natural Hazards Planning and Risk Management	Application Review other than natural hazards	21.1.1.1 (1)	Input to the review and approval processes under other applicable law, (e.g., Environmental Assessment Act, Drainage Act, Aggregate Resources Act, Niagara Escarpment Planning and Development Act proposals) with comments principally related to non-natural hazard related matters (as per plan review MOUs with municipal partners).	2	A	\$88,241	\$0	\$0	\$0	\$88,241	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Natural Hazards Planning and Risk Management	Plan Review other than natural hazards	21.1.1.1 (1)	Technical information and advice on non-natural hazard related matters to municipalities on circulated municipal land use planning applications - as per MOUs (Official Plan and Zoning By-law Amendments, Subdivisions, Consents, Minor Variances). Input to municipal land-use planning and strategic documents (OP, Comprehensive ZB, Secondary plans, subwatershed studies, natural heritage system strategies, parks and open space master plans, etc.) related to non-natural hazard matters.	2	A	\$550,832	\$412,565	\$0	\$0	\$138,267	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Lands and Conservation Areas	Public Engagement, Education, and Stewardship	21.1.1.1 (1)	Programs and services to engage, educate, and coordinate environmental stewardship programs on CA lands. Includes implementation of CA management plan and watershed plan recommendations, youth outdoor education programs, public volunteer and stewardship events in CAs, Conservation Youth Corps, as well as site planning, monitoring and assessment for stewardship projects on CA lands.	2	A	\$694,033	\$579,857	\$0	\$0	\$114,176	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023

Lands and Conservation Areas	Land Management, Operation and Maintenance non-CA lands	21.1 (1) 1. ii. 686/21 9. (2)	Management, operation and maintenance of non-Conservation Authority Lands (e.g., Ontario Heritage Trust properties). Including programs and services to maintain facilities and other amenities that support public access.	2	A	\$210,310	\$34,429	\$0	\$0	\$175,881	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Environmental Resilience	Community Engagement and Stewardship	21.1.1 (1)	Programs and services to engage, educate, and coordinate environmental stewardship programs on municipal and public lands with municipal partners. Includes Sustainable Neighbourhood Action Program (SNAP) implementation, public volunteer and stewardship events on municipal lands in partnership with municipalities, Conservation Youth Corps, as well as site planning, monitoring and assessment for stewardship projects on public lands.	2	A	\$972,135	\$826,671	\$0	\$0	\$145,464	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Environmental Resilience	Landowner Engagement and Stewardship	21.1.1 (1)	Engagement with urban, rural, and agricultural landowners to promote private land stewardship, provide project advice, design and implementation assistance to property owners. Implementation of watershed plan and Sustainable Neighbourhood Action Program (SNAP) priority stewardship recommendations. Includes management and implementation of Peel Rural Water Quality Program, Wellington-Dufferin Rural Water Quality Program, ALUS program, and Greening Corporate Grounds.	2	A	\$1,538,848	\$1,483,312	\$6,576	\$0	\$48,960	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Environmental Resilience	Restoration and Stewardship Private Lands	21.1.1 (1)	Implementation of terrestrial and aquatic restoration projects on private lands and supporting landowner engagement, education, and stewardship programs. Includes delivery of forestry services (tree nursery, planting and woodlot management); provincial, federal, ALUS-sponsored wetland restoration projects; and on-line dam removal and riparian restoration.	2	A	\$1,795,077	\$1,494,953	\$0	\$0	\$300,124	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Environmental Resilience	Integrated Water Management Implementation	21.1.1 (1)	Programs providing training and technical expertise to government partners, the development community, and landowners to achieve wide-scale implementation of green infrastructure (GI), integrated water management (IWM), and pollution prevention (P2) initiatives.	2	A	\$1,253,716	\$1,250,716	\$0	\$0	\$3,000	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Environmental Resilience	Sustainable Neighbourhoods Action Program	21.1.1 (1)	Neighbourhood-scale action planning, municipal and stakeholder engagement, and implementation of watershed, sub-watershed, and municipal priorities for urban renewal and climate action.	2	A	\$577,840	\$537,771	\$0	\$0	\$40,069	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Lands and Conservation Areas	Special Events and 3rd Party Activities	21.1.2 (1)	Programs and services to coordinate special events and festivals on CA lands, including administering activities with 3rd parties.	3	A	\$135,457	-\$91,537	\$0	\$0	\$226,994	n/a	n/a
Other - Foundation	Credit Valley Conservation Foundation	21.1.2 (1)	Arms' length charitable partner that raises funds and awareness in support of the conservation projects carried out by Credit Valley Conservation that protect, connect and sustain the health and well-being of the watershed and its communities.	3	A	\$380,511	\$165,018	\$0	\$0	\$215,493	n/a	n/a
Corporate Services	Corporate Administration and Governance	402/22	Administrative costs which are not directly related to the delivery of any specific program or service but are the overhead and support costs of the conservation authority. Includes supporting CA Boards, Advisory Committees, Office of CAO and Senior Leadership Team. Maintenance of records, privacy and freedom of information. Costs related to agreements/contracts, administrative by-law updates, litigation, general corporate services.	G	A	\$2,230,866	\$2,097,130	\$0	\$0	\$133,736	n/a	n/a
Corporate Services	Facilities, Fleet, and Asset Management	402/22	Overseeing facility operations and capital improvements, corporate fleet management, and asset management and long-range planning.	G	A	\$1,979,600	\$1,970,042	\$0	\$0	\$9,558	n/a	n/a

Corporate Services	Corporate Communications	402/22	Supporting delivery of products and programs through communication platforms and promotion of revenue generating activities, media relations, website creation and maintenance, strategic marketing.	G	A	\$1,019,423	\$1,019,423	\$0	\$0	\$0	n/a	n/a
Corporate Services	Financial Services	402/22	Financial support services including accounting, payables/receivables.	G	A	\$715,644	\$715,644	\$0	\$0	\$0	n/a	n/a
Corporate Services	Information Technology and Management	402/22	Provision of digital technology to support operations. Development and use of systems to collect and store data and to provide spatial geographical representations of data.	G	A	\$1,120,530	\$1,120,530	\$0	\$0	\$0	n/a	n/a
Corporate Services	Human Resources	402/22	Human resources administration including payroll, benefits, health and safety, compliance with employment legislation.	G	A	\$854,145	\$817,145	\$0	\$0	\$37,000	n/a	n/a
Corporate Services	Strategy and Business Development	402/22	Corporate strategic initiatives including strategic plan development and reporting, business planning, performance measurement.	G	A	\$203,836	\$184,067	\$0	\$0	\$19,769	n/a	n/a

Credit Valley Conservation Inventory of Programs and Services, version 3 (final), January 19, 2024

Service Area	Program/Service Name	Reference	Description/Rationale	Category	Method	Cost	Municipal	Fed/Prov	Non-gov	Self-gen	Municipality	MOU date
Watershed Studies and Strategies	Watershed-based Resource Management Strategy	21.1 (1) 2. 686/21 12. (4)	Development of a watershed-based resource management strategy as required by regulation. This is a new program.	1	C	\$100,000	\$100,000	\$0	\$0	\$0	n/a	n/a
Watershed Studies and Strategies	Provincial Groundwater and Stream Monitoring Programs	21.1 (1) 2. 686/21 12. (2) and (3)	A long-standing (20+ and 50+ years respectively) CA/MECP partnership for groundwater level and quality monitoring and stream water quality monitoring.	1	A	\$221,661	\$221,661	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Flood Forecasting and Warning	21.1 (1) 1. i. 686/21 2.	Flood event forecasting and flood warning. Maintenance of real-time streamflow and weather monitoring stations.	1	A	\$1,282,268	\$1,253,015	\$24,585	\$0	\$4,668	n/a	n/a
Natural Hazards Planning and Risk Management	Drought (or low water) Response	21.1 (1) 1. i. 686/21 3.	Drought conditions monitoring, modelling, and analysis.	1	A	\$37,726	\$37,726	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Ice Management	21.1 (1) 1. i. 686/21 4.	The development and updating of an ice management plan. Annual maintenance of the Erin Mills Ice Control Structure.	1	A	\$28,185	\$28,185	\$0	\$0	\$0	n/a	n/a
Natural Hazards Planning and Risk Management	Water and Erosion Control Infrastructure	21.1 (1) 1. i. 686/21 5.	Operation and management of water and erosion control infrastructure and low flow augmentation.	1	A	\$540,892	\$537,672	\$0	\$0	\$3,220	n/a	n/a
Natural Hazards Planning and Risk Management	Natural Hazards Studies and Information Management	21.1.1 (1)	Additional services including studies of surface water hydrology and hydraulics, stream morphology, and potential effects of climate change as related to natural hazards. Quantification of potential damages and mitigation measures.	1	A	\$268,734	\$267,354	\$0	\$0	\$1,380	n/a	n/a
Natural Hazards Planning and Risk Management	Application Review related to natural hazards	21.1 (1) 1. i. 686/21 6.	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.	1	A	\$244,191	\$133,890	\$0	\$0	\$110,301	n/a	n/a
Natural Hazards Planning and Risk Management	Plan Review related to natural hazards	21.1 (1) 1. i. 686/21 7.	Technical information, advice, and input on natural hazard-related matters to municipalities on circulated municipal land use planning applications and strategic documents.	1	A	\$2,054,069	\$1,506,761	\$0	\$0	\$547,308	n/a	n/a
Natural Hazards Planning and Risk Management	Section 28.1 Permit Administration	21.1 (1) 1. i. 686/21 8.	Reviewing and processing permit applications, associated technical reports, site inspections and enforcement of regulations. Development and maintenance of flood hazard maps.	1	A	\$1,168,171	\$743,065	\$42,700	\$0	\$382,406	n/a	n/a
Lands and Conservation Areas	Conservation Areas Strategy and Land Inventory	21.1 (1) 1. ii. 686/21 10.-11.	Development of a Conservation Areas strategy and land inventory as required by regulation.	1	A	\$196,812	\$196,812	\$0	\$0	\$0	n/a	n/a
Lands and Conservation Areas	Land Management, Operation and Maintenance	21.1 (1) 1. ii. 686/21 9. (1) 2. i.-ii.	Management, operation and maintenance of Conservation Authority lands.	1	A	\$3,674,038	\$2,483,884	\$0	\$0	\$1,190,154	n/a	n/a
Lands and Conservation Areas	Land Management, Capital Projects	21.1 (1) 1. ii. 686/21 9. (1) 2. i.-ii.	Capital projects on Conservation Authority lands.	1	A	\$2,015,566	\$2,010,366	\$5,200	\$0	\$0	n/a	n/a

Lands and Conservation Areas	Section 29 Administration	21.1 (1) 1. ii. 686/21 9. (1) 4	Programs and services to ensure that the authority carries out its duties, functions, and responsibilities to administer regulations made under Section 29 and Regulation 688/21.	1	A	\$174,509	\$174,509	\$0	\$0	\$0	n/a	n/a
Lands and Conservation Areas	Restoration and Stewardship CA Lands	21.1 (1) 1. ii. 686/21 9. (1) 2. iv.-v.	Programs and services to conserve, protect, rehabilitate, establish and manage natural heritage within CA lands, including forest management, terrestrial restoration, invasive species management, and aquatic restoration including wetlands and dam removal.	1	A	\$1,637,329	\$1,320,155	\$0	\$0	\$317,174	n/a	n/a
Lands and Conservation Areas	Natural Heritage Management CA Lands	21.1 (1) 1. ii. 686/21 9. (1) 2. iv.-v.	Ecological inventories and monitoring to produce data, mapping and reports that inform planning, development and management of CA lands.	1	A	\$610,006	\$609,046	\$0	\$0	\$960	n/a	n/a
Environmental Resilience	Source Protection Authority	21.1 (1) 1. iii. 686/21 13.	Source Protection Area/Region activities required by the Clean Water Act and regulations.	1	A	\$488,243	\$110,510	\$377,733	\$0	\$0	n/a	n/a

Watershed Studies and Strategies	Watershed and Sub-watershed Planning	21.1.1 (1)	Plans which characterize the land use, stressors, and water resource and natural systems of the study area (Credit River Watershed or subwatersheds). These plans also provide analysis based on stressor and mitigation scenarios, as well as recommend implementation actions to meet study goals and objectives. Identification, prioritization and quantification of multi-flood hazard and climate-related risks and cost-benefit analysis of management options.	2	A	\$845,260	\$828,168	\$13,980	\$0	\$3,112	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2023
Watershed Studies and Strategies	Natural Heritage and Ecological Monitoring and Inventory	21.1.1 (1)	Ecological monitoring and inventory outside of Conservation Authority land. Information and mapping used to support watershed and subwatershed studies and municipal planning and natural heritage system management. Assessing vulnerability of natural heritage features (e.g., woodlands, wetlands) and developing approaches to help the natural heritage system adapt to the effects of climate change. Provides technical and administrative supervision of crews working on the Region of Peel Green Infrastructure Inventory and Condition Assessment for natural assets. Information will inform State of Infrastructure Report and an Invasive Species Strategy for the Region of Peel. Coordination of the Peel Urban Forest Strategy refresh. Ecohydrologic monitoring and analysis to improve our understanding of ecologic-hydrologic relationships to inform natural hazard and natural heritage management and support Regional Well development and management in vicinity of Inglewood. Support to the Peel Monitoring and Measures Report. Input to watershed studies, plans, and contributions to restoration monitoring.	2	A	\$2,634,117	\$2,633,637	\$0	\$0	\$480	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2024
Watershed Studies and Strategies	Climate Change Risk Management	21.1.1 (1)	Development of risk assessment/management methodology, identification of priority vulnerabilities of multi-flood and erosion hazards, social vulnerabilities and risks to natural and built infrastructure/properties, cost-benefit analysis, prioritized response actions and development of corporate mitigation and adaptation policies and plans. Tracking and documentation, implementation, predicted maintenance frequency of SWM ponds, flood performance of natural/green infrastructure, account for GHG supply chain and carbon sequestration of grey/green/nature-based solutions. Specific Peel Priority Projects include: Flood Risk Assessment, Overland Flood Assessment, Delineation of Peel owned stormwater ditches, support for DMAF applications.	2	A	\$203,218	\$188,975	\$11,650	\$0	\$2,593	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2025
Watershed Studies and Strategies	Integrated Water Management Science	21.1.1 (1)	Provision of stormwater management services such as infrastructure inspections, condition assessments, in-field evaluations, design review and climate change risk modelling to support municipal priorities towards advancing stormwater planning, design, operation & maintenance, and life cycle management to satisfy asset management requirements. Development of monitoring plans and delivery of monitoring services to fulfill provincial environmental compliance approval requirements for Peel municipalities. Development and delivery of training, guidance, and knowledge transfer in collaboration with integrated water management implementation programs.	2	A	\$1,202,995	\$1,192,453	\$0	\$0	\$10,542	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2026
Watershed Studies and Strategies	Modelling and Analysis	21.1.1 (1)	Targeted investigations and local scale modelling including water balance, erosion, and water quality assessments to support management strategies for flooding, natural hazards, and climate resilience, analysis and communication of results. In partnership with the University of Toronto, TRCA and the City of Brampton, examining a suite of SWM ponds through the City of Brampton to determine the cumulative thermal impact on receiving watercourses and pond performance.	2	A	\$296,442	\$291,462	\$0	\$1,800	\$3,180	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2027
Watershed Studies and Strategies	Real-time Water Quality Monitoring	21.1.1 (1)	Operation of a network of real-time water quality stations monitoring key water quality parameters; data analysis; communication of results to support watershed management.	2	A	\$203,881	\$200,141	\$0	\$2,200	\$1,540	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2028

Watershed Studies and Strategies	Natural Assets and Ecosystem Services	21.1.1 (1)	Development of methods, guidelines and tools on natural asset management and ecosystem services assessments to address municipal requests and assist CVC and external partners in natural asset planning, management, and restoration. Providing input and leading data analysis and the State of Infrastructure report writing for Region of Peel Natural Green Infrastructure Inventory and Condition Assessment for natural assets on Region of Peel properties. Working in partnerships with municipalities to help them to meet regulatory requirements with respect to natural assets and climate change.	2	A	\$309,263	\$218,895	\$37,400	\$0	\$52,968	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2029
Natural Hazards Planning and Risk Management	Enhanced Flood Plain Mapping Services	21.1.1 (1)	Additional services to support expedited flood plain mapping.	2	A	\$232,523	\$224,088	\$8,435	\$0	\$0	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2030
Natural Hazards Planning and Risk Management	Application Review other than natural hazards	21.1.1 (1)	Input to the review and approval processes under other applicable law, (e.g., Environmental Assessment Act, Drainage Act, Aggregate Resources Act, Niagara Escarpment Planning and Development Act proposals) with comments principally related to non-natural hazard related matters (as per plan review MOUs with municipal partners).	2	A	\$88,241	\$0	\$0	\$0	\$88,241	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2031
Natural Hazards Planning and Risk Management	Plan Review other than natural hazards	21.1.1 (1)	Technical information and advice on non-natural hazard related matters to municipalities on circulated municipal land use planning applications - as per MOUs (Official Plan and Zoning By-law Amendments, Subdivisions, Consents, Minor Variances). Input to municipal land-use planning and strategic documents (OP, Comprehensive ZB, Secondary plans, subwatershed studies, natural heritage system strategies, parks and open space master plans, etc.) related to non-natural hazard matters. This program is discontinued as of 2024.	2	A	\$550,832	\$412,565	\$0	\$0	\$138,267	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2032
Lands and Conservation Areas	Public Engagement, Education, and Stewardship	21.1.1 (1)	Programs and services to engage, educate, and coordinate environmental stewardship programs on CA lands. Includes implementation of CA management plan and watershed plan recommendations, youth outdoor education programs, public volunteer and stewardship events in CAs, Conservation Youth Corps, as well as site planning, monitoring and assessment for stewardship projects on CA lands.	2	A	\$694,033	\$579,857	\$0	\$0	\$114,176	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2033
Lands and Conservation Areas	Land Management, Operation and Maintenance non-CA lands	21.1 (1) 1. ii. 686/21 9. (2)	Management, operation and maintenance of non-Conservation Authority Lands (e.g., Ontario Heritage Trust properties). Including programs and services to maintain facilities and other amenities that support public access. This program is discontinued as of 2024.	2	A	\$210,310	\$34,429	\$0	\$0	\$175,881	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2034
Environmental Resilience	Community Engagement and Stewardship	21.1.1 (1)	Programs and services to engage, educate, and coordinate environmental stewardship programs on municipal and public lands with municipal partners. Includes Sustainable Neighbourhood Action Program (SNAP) implementation, public volunteer and stewardship events on municipal lands in partnership with municipalities, Conservation Youth Corps, as well as site planning, monitoring and assessment for stewardship projects on public lands.	2	A	\$972,135	\$826,671	\$0	\$0	\$145,464	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2035
Environmental Resilience	Landowner Engagement and Stewardship	21.1.1 (1)	Engagement with urban, rural, and agricultural landowners to promote private land stewardship, provide project advice, design and implementation assistance to property owners. Implementation of watershed plan and Sustainable Neighbourhood Action Program (SNAP) priority stewardship recommendations. Includes management and implementation of Peel Rural Water Quality Program, Wellington-Dufferin Rural Water Quality Program, ALUS program, and Greening Corporate Grounds.	2	A	\$1,538,848	\$1,483,312	\$6,576	\$0	\$48,960	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2036
Environmental Resilience	Restoration and Stewardship Private Lands	21.1.1 (1)	Implementation of terrestrial and aquatic restoration projects on private lands and supporting landowner engagement, education, and stewardship programs. Includes delivery of forestry services (tree nursery, planting and woodlot management); provincial, federal, ALUS-sponsored wetland restoration projects; and on-line dam removal and riparian restoration.	2	A	\$1,795,077	\$1,494,953	\$0	\$0	\$300,124	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2037
Environmental Resilience	Integrated Water Management Implementation	21.1.1 (1)	Programs providing training and technical expertise to government partners, the development community, and landowners to achieve wide-scale implementation of green infrastructure (GI), integrated water management (IWM), and pollution prevention (P2) initiatives.	2	A	\$1,253,716	\$1,250,716	\$0	\$0	\$3,000	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2038

Environmental Resilience	Sustainable Neighbourhoods Action Program	21.1.1 (1)	Neighbourhood-scale action planning, municipal and stakeholder engagement, and implementation of watershed, sub-watershed, and municipal priorities for urban renewal and climate action.	2	A	\$577,840	\$537,771	\$0	\$0	\$40,069	Peel, Halton, Orangeville, Erin, Mono, East Garafraxa, Amaranth	E. Garafraxa, Oct. 17, 2023; Orangeville, Nov. 13, 2023; all others, Dec. 31, 2039
Lands and Conservation Areas	Special Events and 3rd Party Activities	21.1.2 (1)	Programs and services to coordinate special events and festivals on CA lands, including administering activities with 3rd parties.	3	A	\$135,457	-\$91,537	\$0	\$0	\$226,994	n/a	n/a
Other - Foundation	Credit Valley Conservation Foundation	21.1.2 (1)	Arms' length charitable partner that raises funds and awareness in support of the conservation projects carried out by Credit Valley Conservation that protect, connect and sustain the health and well-being of the watershed and its communities.	3	A	\$380,511	\$165,018	\$0	\$0	\$215,493	n/a	n/a
Corporate Services	Corporate Administration and Governance	402/22	Administrative costs which are not directly related to the delivery of any specific program or service but are the overhead and support costs of the conservation authority. Includes supporting CA Boards, Advisory Committees, Office of CAO and Senior Leadership Team. Maintenance of records, privacy and freedom of information. Costs related to agreements/contracts, administrative by-law updates, litigation, general corporate services.	G	A	\$2,230,866	\$2,097,130	\$0	\$0	\$133,736	n/a	n/a
Corporate Services	Facilities, Fleet, and Asset Management	402/22	Overseeing facility operations and capital improvements, corporate fleet management, and asset management and long-range planning.	G	A	\$1,979,600	\$1,970,042	\$0	\$0	\$9,558	n/a	n/a
Corporate Services	Corporate Communications	402/22	Supporting delivery of products and programs through communication platforms and promotion of revenue generating activities, media relations, website creation and maintenance, strategic marketing.	G	A	\$1,019,423	\$1,019,423	\$0	\$0	\$0	n/a	n/a
Corporate Services	Financial Services	402/22	Financial support services including accounting, payables/receivables.	G	A	\$715,644	\$715,644	\$0	\$0	\$0	n/a	n/a
Corporate Services	Information Technology and Management	402/22	Provision of digital technology to support operations. Development and use of systems to collect and store data and to provide spatial geographical representations of data.	G	A	\$1,120,530	\$1,120,530	\$0	\$0	\$0	n/a	n/a
Corporate Services	Human Resources	402/22	Human resources administration including payroll, benefits, health and safety, compliance with employment legislation.	G	A	\$854,145	\$817,145	\$0	\$0	\$37,000	n/a	n/a
Corporate Services	Strategy and Business Development	402/22	Corporate strategic initiatives including strategic plan development and reporting, business planning, performance measurement.	G	A	\$203,836	\$184,067	\$0	\$0	\$19,769	n/a	n/a