



Finance and Administration Advisory Committee

Via Zoom

Tuesday, March 28th, 2023 at 9:30 am

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Meeting ID: 867 4482 6651 Passcode: 391447

AGENDA

ROLL CALL

Adoption of Agenda

Declarations of Interest (written)

- 1. Election of 2023 Officers, (S. McIntyre)
- Approval of Minutes: Finance & Administration Advisory Committee, November 21, 2022, Page 2
- 3. 10-year Capital Plan Update, Report 3301/23 (S. McIntyre & S. Millard), Page 8
- 4. Sale of K&P Trail (In Camera), Report 3302/23 (S. Lawryk), Page 21
- 5. Tangible Capital Asset Policy Amendment, Report 3303/23 (S. Millard), Page 26
- 6. Long-term Disability Benefit Amendment, Report 3304/23 (S. Millard), Page 34
- City of Ottawa Flood Plain Mapping Contract, Report 3305/23 (J. Cunderlik), Page 35

Other Business

ADJOURNMENT



FINANCE AND ADMINISTRATION ADVISORY COMMITTEE

MINUTES

November 21, 2022

<u>MEMBERS PRESENT</u> :	C. Lowry, Chair P. Sweetnam, Vice-Chair J. Mason B. King E. El-Chantiry
<u>MEMBERS ABSENT:</u>	P. Kehoe A. Tennant J. Atkinson
<u>STAFF PRESENT:</u>	 S. McIntyre, General Manager S. Millard, Treasurer T. Fragnito, Finance Assistant M. Craig, Planning and Regulations Manager S. Lawryk, Property Manager A. Broadbent, IC&T Manager P. Tapley, Recording Secretary

C. Lowry called the meeting to order at 3:00 pm.

FAAC11/21/22-1	
MOVED BY:	P. Sweetnam
SECONDED BY:	B. King

Resolved, That the Agenda for the November 21, 2022 Finance & Administration Advisory Committee meeting be adopted as presented.

BUSINESS

1. <u>Approval of Minutes from Finance & Administration Advisory Committee meeting held</u> <u>October 11, 2022.</u>

FAAC11/21/22-2MOVED BY:J. MasonSECONDED BY:B. King

Resolved, That the Minutes of the Finance & Administration Advisory Committee meeting held October 11, 2022 be received and approved as printed.

"CARRIED"

2. <u>Alternate Work Arrangements Policies, Report 3261/22</u>

S. McIntyre presented two policies: Work from Home Policy and Compressed Work Week Policy. These policies were developed in accordance with the 2021 *Workforce Plan* to improve work life balance. Both were trialed during the pandemic and although there were challenges implementing a hybrid approach, there were also many benefits. For employees who cannot work from home (i.e. field crews and front desk staff), a compressed work week approach was developed. Both forms of work arrangements were well received by staff.

A staff working group discussed issues and specific needs. The attached policies were circulated to all employees and no comments were received.

P. Sweetnam asked if staff were satisfied with these alternate work arrangements? S. McIntyre confirmed that they are supportive of these alternative work arrangements.

FAAC11/21/22-3MOVED BY:P. SweetnamSECONDED BY:J. Mason

Resolved, That the Finance & Administration Committee recommend that the Board approve amendment of section 2.3.1 of the Employee Manual as set out in this report; and add Attachment 1 to the Employee Manual as Appendix 13.5 and Attachment 2 as Appendix 13.6.

3. <u>Cell Phone Policy, Report 3262/22</u>

S. McIntyre presented the new cell phone policy that was developed because most employees use personal cell phones for work or while working from home. The lack of a cell phone policy has led to inconsistencies and confusion in compensation and became a greater issue during COVID. She explained that a working group was established to consider options and a cost analysis was undertaken. The proposed policy provides for three levels of cellular cost support and is not expected to have a significant cost impact.

J. Mason asked if there was a Level 0, meaning are there any employees not eligible for the plan. S. McIntyre stated that there was only one position that may not require a cell phone, but in the spirit of fairness and the potential to work form home in the future, it would be beneficial for all employees to be under this Policy.

E. El-Chantiry asked if staff checked with Ottawa, Carleton Place, or other larger municipalities to determine if there was a possibility of joining or bundling with their plans for potential cost savings. S. McIntyre responded the current plan is very cost effective and no change is recommended at this time, but that option would be investigated if things change.

P. Sweetnam asked if the current plan was shared? S. McIntyre explained that the current plan provides each individual with 6 GB of data and unlimited calling and texting in Canada at a cost of \$25/month/person.

B. King raised concerns with respect to Freedom of Information and privacy issues due to mixing of company and personal information on the same phone; and questioned what problems could arise if an employee is terminated. He stated that if a cell phone is required for work it should be supplied by the employer. S. McIntyre stated that consideration was given to the use of shared corporate phones for field use but that was impractical for work from home situations. She acknowledged that the policy does not address confidentiality and that staff could revisit the policy if desired by the Committee.

FAAC11/21/22-4

MOVED BY:	E. El-Chantiry
SECONDED BY:	B. Sweetnam

Resolved, That the Finance & Administration Committee recommend that the Board approve amendment of Section 2.7 Technology – Internet, E-Mail, Cell Phones as set out in this report and addition of Attachment 1 to the Employee Manual as Appendix 13.7.

4. Fee Policy and Schedule, Report 3263/22

S. McIntyre outlined that new regulations require update of MVCA's Fee Policy, which is proposed to replace them in its entirety as it is very dated. She explained that the recommended policy is based upon three key principles: recover full-costs where feasible; balance user-pay principle with maintaining affordable access for all; and harmonized fees with neighboring conservation authorities in shared municipalities where feasible.

M. Craig tabled the 2023 Fee Schedule for approval and confirmed that the fees align with the new regulations. He highlighted the following key changes: Stewardship Program fees for supplies; the addition of septic program fees due to implementation of the expanded program; addition of a \$30 fee for providing written technical responses to a map queries; and a fee for 'Shoreline alteration/protection, channelization permits' that had accidently been deleted from 2022 Fee Schedule.

S. McIntyre noted that Fee Appeals will be submitted to the GM and not to the Board of Directors. Given the 30-day appeal period, she stated that a special meeting late in December would be required if there were any major objections to the Policy.

P. Sweetnam asked if fees would be fully cost recovered in 2023 and could they be raised via this Policy. S. McIntyre responded that full cost recovery would not be achieved in 2023.

J. Mason asked for clarification on the scope of what was being approved as the Board already approved the 2023 fees in October. S. McIntyre confirmed that the Board is only approving the specific changes identified by M. Craig, and the new Fee Policy as required by regulation.

FAAC11/21/22-5

MOVED BY:	P. Sweetnam

SECONDED BY: J. Mason

Resolved, That the Finance & Administration Committee recommend that the Board:

- a) approve in principle the Fee Policy and additions to the 2023 Fee Schedule as presented herein.
- b) authorize enactment of the Fee Policy and 2023 Fee Schedule upon completion of the 30-day notification period if no major concerns are raised by stakeholders.
- c) Direct staff to return to the Board upon completion of the 30-day review period if any major concerns are raised by stakeholders.

5. Draft 2023 Budget, Report 3264/22

S. McIntyre reviewed proposed expenditures and revenues as set out in the Draft 2023 Budget. She outlined that the proposed municipal levy increase aligns with direction received from the Board in October:

- 3% to the operating budget for inflation;
- 4.5% to the capital budget to implement the 10-year Capital Plan;
- 1.5% increase to both to provide for assessment growth;

and, previous Board decisions to hire/retain staff to meet workload demands, and to phase those costs onto the levy over a period of years while maintaining the Operating Reserve balance in a target range.

S. McIntyre explained that the base budget pressure equals a combined increase of 4.5%; and, that the levy pressure increases to 7.66% when a third (1/3) of payroll costs are moved from the Operating Reserve onto the levy, as previously approved.

S. McIntyre outlined specific pressures on the operating and capital programs; and as directed by the Board in October, she tabled several options to reduce pressures on municipal levies.

P. Sweetnam requested that the "Glen Cairn Reserve" be included under 'Reserve Investments'.S. McIntyre explained that it had been renamed to "Category 1 Priority Projects" during review of reserve funds earlier in the year. The change was made to reflect how monies in that restricted reserve can be used rather than how the original funds were obtained.

J. Mason asked how draft budgets of RVCA and South Nation compare to MVCA's draft budget. S. McIntyre reported that they had tabled a 2.5-3.0% cost of living increase plus growth. She added that MVCA has significantly higher capital requirements; and that the other two CAs have larger baseline operating budgets and staff complement.

A discussion took place on the budget, the options, and the pros and cons of establishing a new upset limit to the municipal levy. As the Board had already given sign off on the budget envelope, members agreed to elevate the budget as proposed along with the options to reduce operating and capital levies.

B. King stated that he would like to have seen more options to reduce the Operating budget. Further, he requested a tally of all MVCA salaries and wages from 2022 and 2023. S. McIntyre will provide to the Board with the next version of the Budget. P. Sweetnam raised the point that J. Karau had identified previously regarding the need for a Communications person for outreach and related organizational activities. S. McIntyre acknowledged the need and stated that MVCA has an agreement with RVCA to provide social media support, that their role is being expanded to include other communications services, and the arrangement is working well.

E. El-Chantiry mentioned there is an upcoming meeting on flood plain mapping where a federally funded group are speaking on the subject of Property Evaluations and wondered if members were aware. S. McIntyre asked to have the details forwarded to her attention and will follow up.

FAAC10/11/22-6

MOVED BY:	J. Mason
SECONDED BY:	P. Sweetnam

Resolved, That the Finance & Administration Committee recommend that the Board:

- a) Direct staff to adjust the Draft 2023 Budget by reducing the capital levy by \$120,000 and reducing the operating levy by \$56,000.
- b) Recommend the revised Draft 2023 Budget be presented to the Board for consideration and circulation to member Municipalities.
- c) Direct staff to continue to identify alternative cost savings options for operating and capital levies.

"CARRIED"

ADJOURNMENT

The meeting was adjourned at 5:00 pm.

P. Tapley, Recording Secretary

C. Lowry, Chair

3301/23

TO:	Finance and Administration Advisory Committee
FROM:	Sally McIntyre, General Manager and Stacy Millard, Treasurer
RE:	10-year Capital Plan and Capital Reserves Update

RECOMMENDATION

That the Finance & Administration Committee recommend that the Board of Directors approve the 10-year Capital Plan update and schedule of capital levy increases.

1. BACKGROUND

In 2016, MVCA's Auditor recommended that "the Authority develop an asset management plan to identify future asset replacement needs and required reserve allocations to meet those replacement needs". MVCA approved its first 10-year Capital Plan in 2018.¹ In 2020, an Interim Financial Plan (IFP) was approved that included a capital plan of \$11.4 million for the period 2021-2030.² The 2020 IFP assumed capital levy increases as shown in Table 1.³

2021	2.5%
2022	4.5%
2023	4.5%
2024	5.5%
2025	6.5%
2026	6.5%
2027	5.5%
2028	5.5%
2029	3.5%
2030	3.5%

Table 1: Projected Annual Capital Levy Increases (2020)

¹ Staff Report 2979/18.

² Staff Reports 3092/20 and 3095/20.

³ The City of Ottawa's *Long Range Finance Plan* assumed a 12% increase for stormwater infrastructure and programming in 2023, inclusive of COLA, inflation, and growth. In 2023, MVCA saw an all-in increase of 6.5%

Update of the 10-Year Capital Plan is warranted at this time due to:

- New information obtained regarding assets and the recommended scope and timing of expenditures;
- Cost pressures arising from inflation and the above changes; and
- Board approval of policies governing the management of reserve funds.

The building of capital reserves is essential to delivery of the capital program. In 2022, the Board of Directors approved policies to guide annual contributions to reserves and to enhanced reserve management. The policies reflect a Pay As You Go (PAYGO) approach to capital asset replacement, and do <u>not</u> set aside funds for long-term asset replacement. In summary:

- "Water and erosion control asset reserve funds should have a <u>balance equal</u> to or greater than 50% of the approved 8-year capital program, up to a maximum of \$500,000 per project. For projects greater than \$500,000, add the annual cost to carry 50% of the project cost at 5% interest paid monthly, amortized over 20 years.
- All other reserve funds established for Tangible Capital Assets should have a <u>balance equal</u> to or greater than the approved 5-year capital program for those assets, or as specified..."

2. UPDATE OF THE 10-YEAR CAPITAL PLAN

See Attachment 1 for the updated 10-year Capital Plan and supporting tables.

2.1. Expenditures

Following update of the *Capital Needs Assessment*⁴, the management team updated capital project schedules and cost estimates for the period 2023-2032. The total value of the Plan has risen by ~\$5.2 million since 2020. Key reasons for this increase are summarized in Table 2.

Program/Project	Increase	Explanation
Inflation	\$1,102,110	The 2020 10-year Capital Plan did not inflate values year over year. The 2023 Plan includes a 5% per annum inflation rate. This rate is significantly below recent trends and is considered to be possible but optimistic. ⁵

 Table 2: Major Pressures and Changes to the Capital Plan

⁴ Refer to Staff Report 3294/23.

⁵ The composite Census Metropolitan Area for non-residential construction cost increased 12.5% in 2022 compared with 2021. This was the highest annual increase since the beginning of the Non-Residential Building Construction Price Index in 1981. Non-residential building construction costs increased the most in Toronto (+16.2%), followed by Ottawa (+13.6%). Source: <u>https://www150.statcan.gc.ca/n1/daily-quotidien/230208/dq230208d-eng.htm</u>.

Program/Project	Increase	Explanation
Kashwakamak Lake Dam	\$3,947,500	Initial estimates assumed repair of the existing dam and did not include pre-construction and other related costs (e.g. EA and engineered design.) Subsequent site investigations concluded that complete reconstruction of the 113-year old is needed. The current Plan allows for reconstruction and includes all project related costs.
Fleet	\$157,200	The Plan now allows for phased acquisition of EVs as old
		fleet is retired; and installation of a charging station.

2.2. Revenues

The Updated 10-year Capital Plan applies a uniform annual Growth Rate of 1.3% to the Capital Levy, which is lower than recent growth rate increases.⁶ This is considered prudent given active fiscal policy at the federal level to slow economy and what staff have observed in the past six months. This increase is also considered to be revenue neutral as it is paid through increased assessment value associated with newly developed lots and their property taxes.

To mitigate the impact of budget increases on the Capital Levy, the Updated Plan transfers existing and projected reserve surpluses (above policy targets) from the Operating Reserve and the Priority Projects Reserve to the Water & Erosion Control Structure Reserve. These internal transfers total \$842,000. As well, the Plan dedicates <u>all</u> annual reserve contributions to the Water Control Structure Reserve 2024-2027 making all other programs dependent upon current reserve balances and the annual capital levy over this period. For example, if there are insufficient funds to buy a vehicle, the Authority would lease a vehicle until funds become available.⁷

Despite these measures, reserve balances in key areas are projected to be well below policy targets unless there are further increases to the Capital Levy. For this reason, the Updated Plan recommends a 2% increase to the levies shown in Table 1. This would allow the Authority to achieve 54% of its targeted reserve balance, as explained in the following section.

3. RESERVE FUND MANAGEMENT

Continued building of reserves is essential to asset renewal as they allow MVCA to access grants that require at least 50% matching dollars from MVCA; and because not all capital projects are eligible for grants. Table 3 provides targeted year-end reserve balances for 2027—the mid-point of the Updated 10-year Capital Plan. Targets were calculated by applying Board-approved policies.

⁶ The approved 2023 growth rate was 1.5%; 1.4% in 2022; 1.5% in 2021; and 1.5% in 2020.

⁷ Staff have begun work on a fleet management plan to optimize the number, type, and acquisition of vehicles.

Table 3 also shows projected reserve balances for two scenarios and their variance from the desired target:

- Status quo Capital Levy increases (as shown in Table 1.)
- Table 1 Capital Levy increases plus 2% (i.e. 4.5% becomes 6.5%).

As shown, implementation of the capital increases shown in Table 1 will result in a 2027 reserve balance equalling ~52% of the target. Raising the annual capital levy each year by a further 2% will allow MVCA to achieve ~54% of the Board's targeted reserve balance by 2027. Continuation of this practice over the full 10-years would allow the Authority to reach ~76% of its target reserve balance by 2032.⁸ The difference of \$149,478 would be allocated to the Water Control Structure Reserve and move it from 47% to 54% of the 2027 target level. This is critical for achieving the second 5-year period of the Capital Plan, from 2028-2032.

	AUDITED	TARGETED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
	YEAR-END	YEAR-END	BALANCE	VARIANCE	VARIANCE	BALANCE	VARIANCE
RESERVE FUND	BALANCE,	BALANCE,	<u>STATUS QUO</u>	<u>STATUS QUO</u>	<u>STATUS QUO</u>	SQ LEVY	SQ LEVY
	2022	2027 ⁹	LEVY INCR.	LEVY INCR.	LEVY INCR.	<u>+2%</u>	<u>+2%</u>
OPERATING RESERVE	1,496,074	850,850	851,074	224	100%	851,074	100%
HQ BUILDING RESERVE	573,701	1,487,640	338,701	(1,148,939)	23%	338,701	23%
CONSERVATION AREAS	185,700	165,210	185,700	20,490	112%	185,700	112%
INFORMATION TECHNOLOGY	80,158	58,710	80,158	21,448	137%	80,158	137%
VEHICLES & EQUIPMENT RES.	263,537	622,040	213,537	(408,503)	34%	213,537	34%
WATER CONTROL STRUCTURES	514,391	1,999,593	934,300	(1,065,293)	47%	1,083,777	54%
PRIORITY PROJECTS RESERVE	438,836	150,000	150,086	86	100%	150,086	100%
TOTAL	3,552,396	5,334,044	2,753,556	(2,580,488)	52%	2,903,033	54%

 Table 3: Targeted versus Projected Reserve Balances, 2027

⁸ This assumes an average capital program roughly equivalent to today, inflated over time.

⁹ Based upon the recommended 10-year capital program and calculation of target balances using the methods set out in MVCA's 2022 reserve policies.

3.1. Impact on the Capital Levy

In 2023, the Capital Levy constituted 17.6% of the Municipal Levy. Table 4 shows projected financial impacts to each municipality associated with increasing the capital levies using the two scenarios discussed above.

	Status Quo ¹⁰	Status Quo Capital Incr.	Total Difference
	Capital Incr.	+ 2%	over 4-years
Addington Highlands, Township of	\$4,794	\$5,030	\$236
Beckwith Township	\$20 <i>,</i> 605	\$21,619	\$1,014
Carleton Place, Town of	\$77,051	\$80,843	\$3,792
Central Frontenac, Township of	\$13,233	\$13,884	\$651
Drummond/ North Elmsley, Twp. of	\$14,822	\$15,551	\$729
Greater Madawaska, Township of	\$1,063	\$1,116	\$53
Lanark Highlands, Township of	\$34,073	\$35,750	\$1,677
Mississippi Mills, Municipality of	\$83,075	\$87,164	\$4,089
North Frontenac, Township of	\$28,194	\$29,582	\$1,388
Ottawa, City of	\$2,741,245	\$2,876,153	\$134,908
Tay Valley Township	\$19,120	\$20,061	\$941
TOTAL	\$3,037,275	\$3,186,753	\$149,478

Table 4: Capital Levy Increases, Total Cost 2024-2027

4. CORPORATE STRATEGIC PLAN

Implementation of the 10-year Capital Plan Update aligns with Goal 1: Asset Management – revitalize watershed management activities and invest in our legislated mandate; and objectives:

- a) Implement the five-year capital program
- e) Plan for the next phase of asset development and management.

¹⁰ Per scheduled increases shown in Table 1.

			CAPITAL	PLAN SUMN	IARY						
Water Control Structures	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Shabomeka Lake Dam	-	-	-	-	-	-	-	35,178	36,936	155,133	227,247
Mazinaw Lake Dam	-	-	-	-	-	-	100,507	35,178	147,746	-	283,430
Kashwakamak Lake Dam	120,000	115,500	110,250	173,644	3,152,719	3,310,355	-	-	-	-	6,982,468
Big Gull Lake Dam	-	-	-	-	-	-	100,507	35,178	147,746	-	283,430
Mississagagon Lake Dam	-	5,250	-	-	-	-	-	-	-	-	5,250
Farm Lake Dam	-	-	11,025	-	-	-	-	-	73,873	775,664	860,562
Pine Lake Dam	-	5,250	-	-	-	-	-	-	-	-	5,250
Carleton Place Dam	280,000	-	-	-	-	-	-	-	-	-	280,000
Lanark Dam	-	78,750	27,563	115,763	-	-	-	-	-	-	222,075
Widow Lake Dam	-	78,750	55,125	405,169	-	-	-	-	-	-	539,044
Bennett Lake Dam		-	, _	· -	-	-	-	105,533	36,936	155,133	297,602
Glen Cairn Detention Basin		-	-	-	-	-	-	-	-	-	
MacLarens Landing	-	-	-	-	-	-	-	-	-	-	-
Proposed Debt Repayment	35,412	35,412	35,412	35,412	77,340	77,340	77,340	77,340	77,340	95,046	623,394
Subtotal	435,412	318.912	239,375	729,987	3,230,059	3,387,695	278,354	288,405	520,577	1,180,976	10,609,752
Watershed Monitoring	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Gauge Network	30,750	34,125	35,831	37,623	39,504	41,479	43,553	45,731	48,017	50,418	407,032
Survey & Flow Equipment	67,000			-	-	-	-	-	-	-	67,000
Subtotal	97,750	34,125	35,831	37,623	39,504	41,479	43,553	45,731	48,017	50,418	474,032
Conservation Areas	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Mill of Kintail - Visitor Services	113,500		22,050		60,775	31,907	13,401	84,426			326,059
Mill of Kintail CA	30,000	97,350	16,538	11,576	-	-			14,775	-	170,238
Purdon	18,000	66,675	31,421	11,576	12,155	21,697	-	-	-	23,270	184,794
K&P Trail	-	2,100	2,205	2,315	8,509	40,841	2,680	2,814	-		61,464
Morris Island	5,000	15,750	11,025	11,576	12,155			7,036	29,549	7,757	99,848
Roy Brown Trail	-	21,000	5,513	5,788	6,078	-	-	7,036	-	7,757	53,170
Subtotal	166,500	202,875	88,751	42,832	99,672	94,445	16,081	101,311	44,324	38,783	895,574
Vehicles & Equipment	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Vehicles	50,000	71,400	99,225	57,881	115,473	76,577	87,106	91,462	96,035	124,106	869,265
Equipment		8,400	-	40,517	30,388	76,577	46,903	-	-	23,270	226,055
Subtotal	50,000	79,800	99,225	98,398	145,861	153,154	134,010	91,462	96,035	147,376	1,095,320
HQ Building	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Debt payment	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	2,770,050
Sewer and water connection	357,500	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	357,500
Other	337,300	15,750	16,538	-	91,163	19,144	40,203	21,107	22.162	-	226,066
Subtotal	- 634,505	292,755	293,543	277,005	368,168	296,149	317,208	298,112	22,162	277,005	3,353,616
	2023	292,755	293,543	277,003	2027	290,149	2029	298,112	299,107	277,003	10 Yr Total
Information Technology					-						
Hardware	27,450	29,925	20,948	9,261	6,078	6,381	6,700	7,036	7,387	7,757	128,922
Data Acquisition	-	18,375	-	-	-	-	23,452	-	-	-	41,827
LIDAR											-
Subtotal	27,450	48,300	20,948	9,261	6,078	6,381	30,152	7,036	7,387	7,757	170,749
	2022	2024	2025	2026	2027	2020	2020	2020	2024	2022	40.40 7 . 1 . 2
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Total	1,411,617	976,767	777,672	1,195,106	3,889,341	3,979,304	819,358	832,056	1,015,506	1,702,315	16,599,042

Revenues & Reserves

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Base Capital Levy Increase	4.5%	5.5%	6.5%	6.5%	5.5%	5.5%	3.5%	3.5%	3.5%	3.5%	
Growth Assumption	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	
Additional Capital Levy Increase		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	
			Revenu	e Summary							
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Grants Based on Availability											-
Provincial WECI Grant (50%)	178,000	113,400	74,419	312,559	945,816	1,187,600	100,507	105,533	221,618	155,133	3,394,584
Federal Grants	44,000	46,200	44,100	69,458	1,261,088	935,155	-	-	-	-	2,400,000
Municipal Levy - Capital Levy	634,628	690,475	758,142	832,440	905,695	985,396	1,052,403	1,123,966	1,200,396	1,282,023	9,465,564
Debt Financing					472,908	593,800				387,832	1,454,540
Other Donations/Grants	49,987	55,000	32,050	10,000	70,775	41,907	23,401	94,426	10,000	10,000	397,547
Operating Reserve		645,000									645,000
HQ Building Reserve	235,000						(50,000)	(200,000)	(100,000)	(25,000)	(140,000)
Conservation Areas Reserve									(25,000)		(25,000)
Information Technology Reserve							(20,000)	(20,000)	(10,000)	(10,000)	(60,000)
Vehicle & Equipment Reserve	50,000						(50,000)	(50,000)	(30,000)	(47,673)	(127,673)
Water Control Structure Reserve	128,252	(770,308)	(131,039)	(29,350)	233,059	235,446	(236,953)	(221,869)	(251,508)	(50,000)	(1,094,270)
Priority Projects Reserve	91,750	197,000									288,750
Total	1,411,617	976,767	777,672	1,195,106	3,889,341	3,979,304	819,358	832,056	1,015,506	1,702,315	16,599,042

Reserve Summary										
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Operating Reserve (Surplus)	1,496,074	851,074	851,074	851,074	851,074	851,074	851,074	851,074	851,074	851,074
HQ Building Reserve	338,701	338,701	338,701	338,701	338,701	338,701	388,701	588,701	688,701	713,701
Conservation Areas Reserve	185,700	185,700	185,700	185,700	185,700	185,700	185,700	185,700	210,700	210,700
Information Technology Reserve	80,158	80,158	80,158	80,158	80,158	80,158	100,158	120,158	130,158	140,158
Vehicles & Equipment Reserve	213,537	213,537	213,537	213,537	213,537	213,537	263,537	313,537	343,537	391,210
Water Control Structures Reserve	386,139	1,156,447	1,287,486	1,316,836	1,083,777	848,331	1,085,284	1,307,153	1,558,661	1,608,661
Priority Projects Reserve	347,086	150,086	150,086	150,086	150,086	150,086	150,086	150,086	150,086	150,086
Total	3,047,395	2,975,703	3,106,742	3,136,092	2,903,033	2,667,587	3,024,540	3,516,409	3,932,917	4,065,590

		Wat	er and Erosio								
			Water an	d Erosion Co	ontrol Structu	ures					
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Shabomeka Lake Dam			-		-	-	-	35,178	36,936	155,133	227,247
Mazinaw Lake Dam	-	-	-	-	-	-	100,507	35,178	147,746		283,430
Kashwakamak Lake Dam	120,000	115,500	110,250	173,644	3,152,719	3,310,355	-	-			6,982,468
Big Gull Lake Dam		-	antennes and a second and				100,507	35,178	147,746	9.000 and 10.000 and 10	283,430
Mississagagon Lake Dam		5,250	-	-	-			-		I	5,250
Farm Lake Dam*			11,025		Tool of the Local Designation of the Local Des	-	-	-	73,873	775,664	860,562
Pine Lake Dam*		5,250	-				-	-			5,250
Carleton Place Dam	280,000	-	-	-	-		(-)	-			280,000
Lanark Dam		78,750	27,563	115,763		-	-	-		Group and a second s	222,075
Widow Lake Dam		78,750	55,125	405,169	-	-	-		and the boltest state of the boltest		539,044
Bennett Lake Dam	-	-	-	-	-		an 101 an 101 101 101 101 101 101 101 101 101 10	105,533	36,936	155,133	297,602
Glen Cairn Detention Basin	-	-	-	-	-	-	-	-			-
MacLarens Landing	-	-	- A	-	-	-		-			-
											4
Preventative Maintenance											-
Proposed Debt Financing	35,412	35,412	35,412	35,412	77,340	77,340	77,340	77,340	77,340	95,046	623,394
Total	435,412	318,912	239,375	729,987	3,230,059	3,387,695	278,354	288,405	520,577	1,180,976	10,609,752
			W	/atershed M	onitoring						
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Gauge Network					-					· · · · · · · · · · · · · · · · · · ·	
WSC Gauges	6,000	7,875	8,269	8,682	9,116	9,572	10,051	10,553	11,081	11,635	92,834
MVCA Gauges	24,750	26,250	27,563	28,941	30,388	31,907	33,502	35,178	36,936	38,783	314,197
Survey & Flow Equipment	67,000			010.1.81							67,000
Total	97,750	34,125	35,831	37,623	39,504	41,479	43,553	45,731	48,017	50,418	474,032
Total WCS and Monitoring	533,162	353,037	275,206	767,610	3,269,563	3,429,174	321,907	334,136	568,594	1,231,394	11,083,783

	,		Vehic	es & Equ	ipment F	leplacem	ent				
Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Vehicles			•								
Vehicle purchase	50,000	71,400	99,225	57,881	115,473	76,577	87,106	91,462	96,035	124,106	869,265
Equipment Purchase							1				-
- EV Charging Station				57,881							57,881
- ATV				40,517							40,517
Tracks for ATV		8,400									8,400
- Tractor	1 1					76,577					76,577
- Boat & Motor	1 1						46,903			1	46,903
- Tandem utility trailer	1 1				1.					23,270	23,270
Riding Lawn mower	1 1	1		1.2.1	30,388		1.5.1.1			1.34.63	30,388
Sub-Total Equipment		8,400		40,517	30,388	76,577	46,903	-	-	23,270	226,055
Total	50,000	79,800	99,225	98,398	145,861	153,154	134,010	91,462	96,035	147,376	1,379,255

Administration Office											
Administration Office	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
Debt payment	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	277,005	2,770,050
Sewer and water connection	357,500				1.1.1.1.1.1			0.1001		1.0	357,500
OTHER CAPITAL											-
Condition Assessment			16,538		1						16,538
Painting and Restoration		15,750			72,930				22,162		110,842
HVAC replacements					18,233	19,144	40,203	21,107			98,686
SUB-TOTAL OTHER CAPITAL	1	15,750	16,538		91,163	19,144	40,203	21,107	22,162	1 <u>-</u>	226,066
Total	634,505	292,755	293,543	277,005	368,168	296,149	317,208	298,112	299,167	277,005	3,353,616

			Informat	ion and C	Communi	cations S	ystems		1		
Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr Total
HARDWARE											
Computers/monitors	7,250	5,250	5,513	5,788	6,078	6,381	6,700	7,036	7,387	7,757	65,139
Servers	20,200		15435								35,635
Printers											÷
Storage		11 1 1 1		3,473							3,473
Audio Visual		24,675			1.0	1.1					24,675
Total Hardware	27,450	29,925	20,948	9,261	6,078	6,381	6,700	7,036	7,387	7,757	128,922
DATA ACQUISITION											
DRAPE		18,375					23,452				41,827
Total Data Acquisition	-	18,375	2.00	1	1.1.1		23,452				41,827
LIDAR											
Total	27,450	48,300	20,948	9,261	6,078	6,381	30,152	7,036	7,387	7,757	170,749

			Conser	vation A	reas						
Mill of Kintail Conservation Area	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Museum							12 12 12 12 12 12 12 12 12 12 12 12 12 1				
Balcony repairs				28,941							28,941
Replace wooden shingle roof	48,000										48,000
Repoint stone work	10,000										10,000
Replace riverside look out	- 1 - 0 - 121			1.1				1		1	10000
Replace play structure wood chips			1		-			· · · · · · · · · · · · · · · · · · ·			
Replace septic system	CHINE .			1	60,775	(60,775
Museum roadway retaining wall				· · · · · · · · · · · · · · · · · · ·				1		1	-
Building Condition Assessment			22,050								22,050
Gatehouse											
- Repoint stone work	24,000					31,907				1.000	55,907
- Replace veranda joists and flooring	5,000						1.1	1	1.		5,000
Security and accessibility upgrades	6,500									1	6,500
- Replace windows	20000	1				Tri	1	Concernence -		10	20,000
Septic replacement	10000	1	1		-			84,426		1	84,426
Ed Center				1.5.5					-		
Accessibility doors and ramps											-
Replace siding							13,401				13,401
MOK - Visitor Services Subtotal	113,500	-	22,050	- 8	60,775	31,907	13,401	84,426	-	÷.	326,059
Site General									-		
Construct dog park											-
Parking Upgrades		5,250	1.1.1.1.1.1	1	1			· · · · · · · · · · · · · · · · · · ·			5,250
Pedestrian bridge deck replacement		1	16,538		Page 199						16,538
Resurface roadway and parking lot		· · · · · · ·		11,576	·				14,775		26,351
Signage		2,100		1							2,100
Construct flush washrooms	30,000	90000									120,000
Develop site work shop				-	1				2	1 mar 1	
MOK- CA Subtotal	30,000	97,350	16,538	11,576	-	-	-	-	14,775	-	170,238

Purdon Conservation Area	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Replace sections on Boardwalk	18,000	19,425	20,396					<u> </u>	-		57,821
Replace stairs		5,250	5,513	5,788	6,078	6,381	1000 E	1			29,010
Replace site signage						1			0.1	1.000	1
Highland Trail Improvments			5512.5	5,788	6,078					1	17,378
Replace main look-out	1111					15,315	1.00			1	15,315
Replace finger look-out		42,000					2000 11		1	23,270	65,270
Subtotal	18,000	66,675	31,421	11,576	12,155	21,697			-	23,270	184,794
K&P Trail Conservation Area	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Trail improvements					1				2000		
Condition Assessment			1		6,078		1				6,078
Bridge deck & handrail upgrades			1.2 T			38,288		· · · · · · · · · · · · · · · · · · ·			38,288
Beaver management		2,100	2,205	2,315	2,431	2,553	2,680	2,814			17,098
Subtotal		2,100	2,205	2,315	8,509	40,841	2,680	2,814			111,464
Morris island Conservation Area	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Trail brushing/improvements		5,250	5,513	5,788	6,078						22,628
Parking meter			1-02-04				11	6	di		-
Signage		1	C	1			1	1	10000	1	1
Trail Bridge repairs	5,000	5,250	5,513	5,788	-			1	29,549	7,757	58,856
Road maintenance		5,250		E 1111	6,078			7,036			18,363
Subtotal	5,000	15,750	11,025	11,576	12,155	- 1. C	1.0.0	7,036	29,549	7,757	72,542
Roy Brown Park (with Carleton Place)	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	10 Yr. Total
Trail construction		-	5,513	5,788	6,078	1.		6 6 C (2 C)		7,757	25,135
Signage	-		Co	-	-	6 . 0	1.004.04	1	1000	1	
Construct lookout	1.1.775-7	21000				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	7,036		Aug	28,036
Subtotal		21,000	5,513	5,788	6,078		-	7,036		7,757	45,414
Total	53,000	202,875	66,701	42,832	38,896	62,538	2,680	16,885	44,324	38,783	584,452

REPORT	3302/23

TO:	Finance & Administration Committee
FROM:	Sally McIntyre, General Manager AND Scott Lawryk, Property Manager
RE:	K&P Trail: Status and Next Steps
DATE:	March 27, 2023

RECOMMENDATION

That the Finance and Administration Committee recommend that the Board of Directors:

- 1. Reconfirm authorization to sell the K&P Trail to the counties of Lanark, Renfrew, and Frontenac for a nominal sum; and
- 2. Direct staff to:
 - (a) Seek coordinated disposal of the asset to the three counties; and
 - (b) Return to the Board with proposed terms and conditions if there are cost implications to MVCA in excess of \$5,000; and
 - (c) Fulfil mandatory notification requirements.

1. PURPOSE

On March 22, 2023 the County of Lanark Economic Development Committee approved a recommendation to make an offer to purchase the Lanark segment of MVCA's K&P Trail for a dollar.¹ The purpose of this report is to provide context, analysis, and make a recommendation to the Board of Directors regarding the anticipated offer to purchase.

2. BACKGROUND

MVCA owns a 35 km section of the K&P Trail² that extends roughly from Snow Road to Barryvale. In November 2019, the Board authorized disposal of the property due to:

- insufficient resources to support appropriate management of the asset; and
- increased interest, planning, and investment by local counties in the development of a comprehensive trail network since the property was acquired by MVCA in 1990s.

¹ Report #CAO-02-2023 of Chief Administrative Officer. The report will rise to County Council next month.

² Approximately 20.7 km in Lanark Highlands, 7.9 km in North Frontenac, and 6.8 km in Greater Madawaska.

Staff were directed that the sale of the property come at no additional cost to MVCA.

Following Board approval, discussions began with the counties of Lanark, Frontenac, and Renfrew for potential purchase of the property, and a property valuation was obtained for the Trail. Official letters were sent to the counties in March 2021 soliciting interest in the property.

The County of Renfrew has relayed their continued interest in moving forward with the purchase of their portion of the trail. They are currently reviewing the County of Lanark report and will be discussing the details at a committee meeting in April. Discussions with the County of Frontenac last year indicate their continued use, and a status update has been requested.

3. ANNUAL OPERATING COSTS

MVCA sets aside \$5,000 per year for annual maintenance of the K&P Trail. This budget does <u>not</u> allow for preventative maintenance or comprehensive asset management. All funds are expended on reactive maintenance to resolve issues identified by staff or trail users.

Actual trail maintenance costs over the last ten years ranged from ~\$300 to \$7,800 per year. In 2022, general maintenance costs were \$6,173. Annual property taxes have been relatively stable since 2012, and totaled \$1,166 in 2022. Total annual operating costs for 2022 were \$7,339. This is considered to be typical and indicative of the minimal investment made in the asset, which is reflected in the rustic condition of the trail.

4. OTHER EXPENSES

Over the past ten years, MVCA has spent:

- ~\$160,000 in property survey and legal fees, of which \$131,000 was related to a claim by an adjacent landowner (Bucci property) over a small section of the K&P.
- ~\$19,000 to investigate the Clyde River bridge condition and prepare engineered drawings for replacement of the railings; and
- ~\$5,000 to obtain a property valuation.

If MVCA were to retain the asset, further work is required at the Clyde River bridge crossing that has been valued at between \$125,000 and \$236,000 depending upon the standard to which the bridge is repaired.

5. LAND REGISTRATION

While MVCA has composite survey plans with Instrument Numbers on file with the three registry offices located in Renfrew, Lanark, and Frontenac, the following issues were raised by legal counsel regarding establishing legal ownership:

- There are approximately 20 PINs associated with the MVCA portion of the K&P trail in Lanark County alone. A full search of all PINs may be required in order to determine if all parts of the K&P have been properly registered in the name of MVCA.
- Not all PINs were converted from the Land Registry to Land Titles and each unconverted property may require full searches to determine the reason why.
- Surveys may be required for those portions that were not converted to Land Titles.
- There may be issues associated with road rights-of-way (ROW) where ownership may not be clearly documented as resting with the local municipality.
- This, in turn, could necessitate conveyance of some portions of the trail to area municipalities prior to conveyance of the trail to the respective county.
 - The County of Renfrew also raised this point in respect to a portion of the trail within the boundaries of Greater Madawaska.

MVCA and the County of Lanark (and other counties) would need to agree on how to address these matters before proceeding with an Agreement of Purchase and Sale.

5.1. BELL Easement

MVCA and Bell entered into an agreement that grants Bell an easement for use of a 3.3km section of the trail from Levant Station to Folger Station, in exchange for a yearly fee of \$1,821. This allows Bell to offer its services to the residents of Folger Station. MVCA and the County of Lanark would have to explore including this easement as part of the Purchase and Sale.

5.2. Temporary Easement

MVCA is in the process of entering into an agreement that would grant the Township of Lanark Highlands a temporary easement to use a 3.2 km section of the trail to service the Village of Clyde Forks, while the Clyde Forks bridge is being replaced. This project will require Lanark Highlands to make some significant improvements to that section of the trail to be able to handle residential traffic and services during the timeframe of the bridge replacement.

5.3. Court Order

MVCA is still working to resolve a matter with an adjacent property owner with 650 m of land fronting the Trail. The matter went before a judge in 2017, and the court decision was in MVCA's favour including award of costs. While MVCA agreed to provide and has surveyed an easement over the trail for the owners, they have refused the proposed terms and failed to comply with the Court Order. Last year the landowners made an offer to purchase the section of the trail in

question and MVCA's Board of Directors declined the offer.³ Further action will be required to resolve this matter.

6. VALUATION AND SALE

MVCA purchased the K&P Trail in the 1990s for \$7,000, and received 50% funding from the Ministry of Natural Resources. The assessed value of the property in May 2021 was \$170,000.

The counties feel that the land should be transferred at nominal cost for the following reasons:

- It is a transfer of public land between public agencies.
- The counties will incur significant cost to bring the asset up to their current standards and to maintain that standard going forward. (For example, the County of Lanark expended net \$2.2 million on the Ottawa Valley Rail Trail (OVRT) and Tay-Havelock Trail over the period 2018-2020, including purchase of approximately 61 km from CPR for \$115,341.)
- The County of Lanark is estimating \$350,000 of survey and legal work to be able to correct existing title issues.

Provincial policies⁴ allows for "nominal sum dispositions to municipalities" provided that "such transfers retain the lands in open space/conservation purposes" and that associated agreements "recognize the Provincial share towards the original acquisition of the land." (This supersedes a previous policy that required the sale of conservation area properties at market rates.)

Accordingly, any agreement of the purchase and sale must provide MVCA with the "first right of refusal" to re-acquire the land should one or more of the counties decide to sell the land in future; and, require return of the Provincial investment to the Province at the "same proportion as the original acquisition" (i.e. 50%) should all or any portion of the land be subsequently sold.

7. NEXT STEPS

Assuming that Lanark County Council approves preparation of an offer to MVCA, it may be advantageous to negotiate an "Option to Purchase Agreement" with all three counties on the main terms. This would allow for consideration of the various matters identified in this report, time to resolve any outstanding matters, and support concurrent disposal of the asset to the three counties.

Once an agreement is in place, MVCA will need to issue a public notification and notify the Minister's office.

³ Refer to Staff Report 3212/22.

⁴ Policies and Procedures for the Disposition of Conservation Authority Property, 1999.

8. CORPORATE STRATEGIC PLAN

Sale of the K&P Trail aligns with Goal 1: Asset Management – revitalize watershed management activities and invest in our legislated mandate; and objectives:

e) Plan for the next phase of asset development and management.

REPORT 3303/23

TO:	The Chair and Members of the MVCA Finance and Administration Advisory Committee
FROM:	Stacy Millard, Treasurer
RE:	Tangible Capital Asset Policy Amendment
DATE:	March 22, 2023

RECOMMENDATION:

That the Finance & Administration Committee recommend that the Board of Directors approve amendment of Appendix 6 Accounting for Tangible Capital Assets of MVCA's Administrative By-law as set out in this report.

Current asset management policies and thresholds were established in 2008. The purpose of this report is to update the schedule of asset classes, capitalization thresholds, and amortization periods and related policies related to a selection of MVCA's assets for the following reasons:

- MVCA's schedule of assets includes "Roads & Bridges". Section 3150 of the *Public* Sector Accounting Handbook indicates that is meant for major roads and bridges, and is not appropriate for MVCA's trails and boardwalks.
- Land Improvements are not currently tracked separately from Land. Whereas Land Improvements can be amortized, Land cannot be.
- Dams are not clearly defined, are limited in scope, and do not address the various types of water control structure that MVCA manages.

Appendix 1 is the updated policy. It contains edits to items 2, 3, and 4 of the Policy Procedures section (on p. 3), and replaces them with Attachment 1 to the policy—a chart that has an updated asset list, description/notes, thresholds, and amortization rates.

CORPORATE STRATEGIC PLAN

Implementation of the 10-year Capital Plan Update aligns with Goal 1: Asset Management – "revitalize watershed management activities and invest in our legislated mandate"; and "Objective: e) Plan for the next phase of asset development and management."



ACCOUNTING FOR TANGIBLE CAPITAL ASSETS

Policy Effective: January 1, 2008 Updated: March 2023

Purpose:

The purpose of this policy is to set out the procedures used by the Authority to track and report tangible capital assets. Accounting for tangible capital assets will follow standard PS 3150 Tangible Capital Assets as per the CICA Public Sector Accounting Handbook.

Definitions:

Tangible Capital Assets

Tangible capital assets are non-financial assets having physical substance that:

- are held for use in the production or supply of goods and services, for rental to others, for administrative purposes or for the development, construction, maintenance or repair of other tangible capital assets;
- have useful economic lives extending beyond one year;
- are used on a continuing basis;
- are not for resale in the ordinary course of operations; and
- meet the capitalization threshold.

Capitalization Threshold

Capitalization threshold is the minimum dollar value for which this policy will apply. Capital assets that do not meet the capitalization threshold will be expensed in the period.

Betterments

Subsequent expenditures on tangible capital assets that:

- increase previously assessed physical output or service capacity;
- lower associated operating costs;
- extend the useful life of the asset; or
- improve the quality of the output.

Fair Value

Fair value is the amount of consideration that would be agreed upon in an arm's length transaction between knowledgeable, willing parties who are under no compulsion to act.

Capital Lease

A capital lease is a lease with contractual terms that transfer substantially all the benefits and risks inherent in ownership of property to the Authority. For substantially all of the benefits and risks of ownership to be transferred to the Authority, one or more of the following conditions must be met:

- There is reasonable assurance that the Authority will obtain ownership of the leased property by the end of the lease term.
- The lease term is of such duration that the Authority will receive substantially all of the economic benefits expected to be derived from the use of the leased property over its life span.
- The lessor would be assured of recovering the investment in the leased property and of earning a return on the investment as a result of the lease agreement.

Amortization

Write off of the cost of a tangible capital asset over its estimated useful life. Amortization is charged to expense in the current year and accumulated amortization is shown as a reduction from the cost of tangible capital assets to arrive at net book value. Straight line amortization is calculated as cost divided by the useful life.

Policy Procedures: (amended March 2023)

- 1. This policy is effective January 1, 2008.
- 2. Asset categories, Thresholds and Useful Life will be determined as required by the Treasurer. These are outlined in Attachment 1.
- Capitalization thresholds are based on single assets. Major assets need not be broken down into components. Similarly, minor assets need not be pooled. Capitalization thresholds can be adjusted on individual basis with the approval of the General Manager.
- 4. Betterments and capital leases are to be treated as tangible capital assets.
- Acquisitions of tangible capital assets must be authorized by the General Manager or designate. Tangible capital assets to be acquired shall be flagged and recorded as such through the acquisition process.
- 6. The Treasurer is responsible for maintaining an asset register. The asset register would include: acquisition date, description, cost, asset category, amortization rate, asset location.
- 7. Tangible capital assets should be recorded at cost plus all ancillary charges necessary to place the asset in its intended location and condition for use.
- 8. For purchased assets, cost is the gross amount of consideration paid to acquire the asset. It includes all non-refundable taxes and duties, freight and delivery

charges, installation and site preparation costs, etc. It is net of any trade discounts or rebates. The cost of land includes purchase price plus legal fees, land registration fees, transfer taxes, etc. Costs would include any costs to make the land suitable for intended use, such as pollution mitigation and demolition. When two or more assets are acquired for a single purchase price, it is necessary to allocate the purchase price to the various assets acquired. Allocation should be based on the fair value of each asset at the time of acquisition or some other reasonable basis if fair value is not readily determinable.

- 9. For acquired, constructed or developed assets, cost includes all costs directly attributable (e.g., construction, architectural and other professional fees) to the acquisition, construction or development of the asset. Carrying costs such as internal design, inspection, administrative and other similar costs may be capitalized. Capitalization of general administrative overheads is not allowed. Capitalization of carrying costs ceases when no construction or development is taking place or when the tangible capital asset is ready for use.
- 10. Borrowing costs incurred by the acquisition, construction and production of an asset that takes a substantial period of time to get ready for its intended use should be capitalized as part of the cost of that asset. Capitalization of interest costs should commence when expenditures are being incurred, borrowing costs are being incurred and activities that are necessary to prepare the asset for its intended use are in progress. Capitalization should be suspended during periods in which active development is interrupted. Capitalization should cease when substantially all of the activities necessary to prepare the asset for its intended use are complete. If only minor modifications are outstanding, this indicates that substantially all of the activities are complete.
- For donated or contributed assets, the costs that meet the criteria for recognition are equal to the fair value at the date of construction or contribution. Fair value may be determined using market or appraisal values. Cost may be determined by an estimate of replacement cost. Ancillary costs should be capitalized.
- 12. Disposals of tangible capital assets must be authorized by the General Manager or designate. When tangible capital assets are taken out of service, destroyed or replaced due to obsolescence, scrapping or dismantling, the General Manager or designate must notify the Treasurer of the asset description and effective date. The Treasurer is responsible for adjusting the asset registers and accounting records recording a loss/gain on disposal.

Attachment 1 – Asset Classes, Thresholds, Useful Lives (amended March 2023)

Asset Class	Description/Notes	Capitalization Threshold	Amortization Rate# (Straight–Line)
Land	 Real property in the form of a plot, lot or area Includes the purchase price and all closing costs to acquire the land Costs associated with the permanent improvements of the land, such as re-grading or filling, are added to the cost of the land Examples: Conservation Area, Beach Property, Undeveloped Site, Playgrounds, Look Out Site, Heritage Area/Historic Sites, Ecological Reserve. Excludes land held for resale 	n/a	n/a
Land			
Improvements	 Includes all costs <u>excluding</u> land and buildings incurred in the development of land to facilitate various recreation and economic pursuits Examples include but are not limited to site development, driveways, parking lots, bike paths, sidewalks, fences, ball diamonds soccer fields, camp sites Playground structures – 10 yrs Soccer field & ball diamonds – 20 yrs Basketball Courts - 10 yrs Running Track - 10 yrs Campgrounds/Picnic Sites - 20 yrs Trails & Boardwalks – walking, biking, ski & skidoo - 20 yrs Fencing – 10 yrs Fountains – 20 yrs Outdoor lighting – 20 yrs Landscaping – 30 yrs Retaining walls – 15 yrs Pavilion/Gazebo - 15 yrs Gravel – 10 yrs Gravel – 10 yrs Concrete – 30 yrs 	\$5,000	10 – 30 years

Asset Class	Description/Notes	Capitalization Threshold	Amortization Rate# (Straight–Line)		
Buildings	• All buildings, which function independent of an infrastructure network and are made of a solid construction	\$10,000	40 years		
Leasehold Improvements	 Costs to renovate, modify or improve accommodations leased by the municipality 	\$5,000	Over the lease term		
Dams and Water Structures	 Dams and other structures that are used to control or divert surface water such as dams, canals, dikes, ditches (not already capitalized as part of road grade), diversions, cut-offs and wells – 50 year Water intake/supply structures, including drilled and dug Useful life determined at time of construction based on type – recommended by Director of Engineering and approved by General Manager 	\$10,000	20 to 50 years		
Vehicles	 Automobiles, cars, vans, trucks, trailers, snowmobiles, ice resurfacing machine, ATV Watercraft: Motor Boat, Zodiak 	\$5,000	5 years		
Machinery & Equipment	 All types of machinery or equipment, other than machinery and equipment used in road construction and maintenance Garden maintenance equipment (including mowers, ride on mowers, trimmers, shovels, picks, wood chippers, outside sprinklers) Recreational equipment (including scoreboards, bleachers nets, picnic tables, tents, canoes/kayaks Welding equipment, generators, audio visual equipment & stage, hand tools, power tools, snow blowers, equipment, safety equipment, fuel tanks, pumps, key lock system, incinerator, surveying & engineering equipment 	\$2,500	10 years		

Asset Class	Description/Notes	Capitalization Threshold	Amortization Rate# (Straight–Line)
Computer Hardware & Software & Communication Equipment	 Purchase installation of personal PC computers, peripherals and LAN servers Off-the-shelf and related upgrades or licenses for individual personal computers, as well as LAN or communication software Does not include the purchase, design and development of major applications. All major applications should be evaluated individually. Examples: Personal computers, laptops, printers, scanners, fax machines, photocopiers, software, telephones, cell phones, 2-Way radios, satellite phones, paging systems, blackberry, cameras 	\$1,000	5 years
Furniture & Fixtures	 Examples: Desks, Chairs, File Cabinets, Kitchen Appliances, Water Dispenser 	\$1,000	10 years

REPORT 3304/		
TO:	The Chair and Members of the Finance and Administration Advisory Committee	
FROM:	Stacy Millard, Treasurer	
RE:	Coverage of Long-Term Disability Benefit, Amendment	
DATE:	March 22, 2023	

RECOMMENDATION:

That the Finance & Administration Committee recommend that the Board of Directors approve amendment of Section 8.2.1 Long Term Disability of the Employee Manual as set out in this report.

A former employee that has been on LTD for several years is still receiving Group Benefits, with MVCA paying the monthly Group Benefits cost. MVCA's Employee Manual is silent on how Group Benefits apply to those on Long Term Disability (LTD). Research indicates that most organizations impose time limits on group benefit coverage. Information obtained from three conservation authorities and three local municipalities were used for comparative purposes. Like MVCA, some are silent on this matter, while others put a limit on how long employees retain Group Benefits, typically two or three years.

To eliminate uncertainty and avoid this potential situation from reoccurring it is recommended that section 8.2.1 of the MVCA Employee Manual be amended to state that "Employees on long term disability (LTD) will have their Group Benefits coverage maintained for up to two years."

As the former employee is 63 years and 5 months of age, and the precedent of covering their Group Benefits is long standing, it is proposed to notify the them that Group Benefits coverage will cease on their 65th birthday in accordance with current practice around retirement. All other employees will be notified of the amendment to the Employee Manual.

This policy change aligns with Goal 3 of the Corporate Strategic Plan: "People and Performance – support the operational transformations required to achieve MVCA's priorities and to address legislative changes"; and "Objective b) Monitor the quality, efficiency and impact of what we do and modify to improve operational effectiveness."

REPORT	3305/23

TO:	The Chair and Members of the MVCA Finance and Administration Advisory Committee
FROM:	Sally McIntyre, General Manager
RE:	City of Ottawa Flood Plain Mapping Contract
DATE:	March 22, 2023

RECOMMENDATION:

That the Finance & Administration Committee recommend that the Board of Directors approve execution of a five-year Flood Plain Mapping agreement with the City of Ottawa.

1.0 BACKGROUND

Since 2012, the Mississippi Valley, Rideau Valley and South Nation Conservation Authorities have been updating and producing new floodplain mapping in the City of Ottawa along several watercourses in accordance with a contribution agreement between the three CAs and the City. Mapping work has focused on high growth areas and other areas of concern, with work ongoing at MVCA to prepare and update mapping of the Carp River. The last contribution agreement was signed in 2017 and the City of Ottawa has proposed continuation and update of the agreement.

2.0 PROPOSED 2023-2027 AGREEMENT

Staff have been working with the City of Ottawa to finalize a third agreement including the required deliverables and budget. Under the new agreement, a draft of which is attached for your consideration, the City of Ottawa will contribute 50% of the total project cost of \$628,838 to undertake the work while MVCA would be responsible to cover the remaining 50% over a period of five years. Refer to Table 1 for the draft list of projects, timing, and costs.

This work allows for accelerated completion of projects identified in last year's Flood Risk Report; and will offset future Category 1 costs by helping to fund core staff of the organization. Savings to MVCA over the five years will be a minimum of ~\$54,500 and a maximum of ~\$88,000 per year.

	Table 1: DRAFT List of Projects, Schedule and Budget								
Year	<u>Floodplain</u> <u>Mapping Studies</u>	Budget	Flood Lines, Depth Maps, and Inventory of Flood Vulnerable Areas	Budget	<u>Erosion Hazard</u> <u>Mapping</u>	Budget	Maintenance	Total Budget	50% Funding
1 (2023)	Carp River Additional Studies	\$70,000					\$0	\$70,000	\$35,000
	Upper Shirley's Brook & Update	\$55,547	Shirley's Brook	\$0	Shirley's Brook	\$0			
2 (2024)	Upper Feedmill Creek	\$22,665					\$5,000	\$108,986	\$54,493
	Kizell Drain/Watts Creek Update*	\$25,774							
	Upper Shirley's Brook & Update	\$56,658	Upper Shirley's Brook	\$10,000	Upper Shirley's Brook	\$3,000		\$5,000 \$134,566 \$67,	\$67,283
3 (2025)	Upper Feedmill Creek	\$23,118	Upper Feedmill Creek	\$7,500	Upper Feedmill Creek	\$3,000	\$5,000		
	Kizell Drain/Watts Creek Update*	\$26,290	Kizell Drain/Watts Creek	\$0	Kizell Drain/Watts Creek	\$0			
4 (2026)	Carp River Tributaries	\$88,525					\$5,000	\$139,299	\$69,650
	Kinburn Drain	\$45,774					· · · · · · · ·	¢100,200	+00,000
5	Carp River Tributaries	\$90,297	Carp River Tributaries	\$17,500	Carp River Tributaries	\$6,000	\$5,000	\$175,987	\$87,994
(2027)	Kinburn Drain	\$46,690	Kinburn Drain	\$7,500	Kinburn Drain	\$3,000			
	Total	\$551,338		\$420,500		\$15,000	\$20,000	\$628,838	\$314,420

3.0 CORPORATE STRATEGIC PLAN

This project aligns with Goal 1: Asset Management – "revitalize watershed management activities and invest in our legislated mandate"; and "Objective b) Strengthen our risk analysis and management capacity to include climate change and development impacts."





A Proposal for the

Delineation of Floodplain and Erosion Hazards within the City of Ottawa

December 2022

Prepared by:





SOUTH NATION CONSERVATION DE LA NATION SUD

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1.0 Background

Conservation Authorities (CA) have been delegated floodplain management responsibilities by the Ontario Ministry of Natural Resources and Forestry on a watershed scale. Specifically, within the City of Ottawa, three CAs have floodplain management responsibilities, including South Nation Conservation (SNC), Rideau Valley Conservation Authority (RVCA), and Mississippi Valley Conservation Authority (MVCA). Their responsibilities include the identification of lands that are subject to flood hazard; supporting regulations made under Section 28 of the *Conservation Authorities Act*; and supporting Official Plan land use designations and zoning by-laws adopted by municipalities in accordance with the Planning Act and the associated Provincial Policy Statement.

Accurate, engineered flood mapping is the foundation for effective flood hazard management. In Eastern Ontario, the 1:100-year floodplain is the regulatory standard, calculated as having a 1% Annual Exceedance Probability (AEP). Outdated floodplain mapping is difficult to defend on technical grounds. There are floodplain maps within the city's boundary that were created 20 to 30 years ago and require attention. In addition to the need to periodically review and update inventories of existing flood maps, CAs are also faced with the need for floodplain analysis and mapping of rivers and streams that have yet to be covered by such mapping throughout their respective jurisdictions.

The perception that the existing floodplain mapping is out of date also weakens the City's ability to effectively implement floodplain provisions in the Zoning By-law.

SNC, MVCA, and RVCA are soon to complete a second successful 5-year agreement that addresses updating and maintaining a floodplain mapping program within the City of Ottawa to ensure the data is accurate and to produce necessary floodplain mapping where it currently does not exist. This proposal will address the next steps to ensure floodplain mapping updates and/or new mapping in areas under development pressure.

As requested by the City of Ottawa, this proposal will include the delineation of erosion hazard for the priority streams. The proposed budget does not include special studies that may be required for priority streams including, soils, slope stability, etc. If they are required, they will be submitted under another proposal.

This proposal addresses an additional 5-year partnership agreement and includes the following priorities:

- Completion of new or updated floodplain mapping studies and reports for priority watercourses within the City of Ottawa;
- Delineation of additional products for emergency purposes, including, flood lines for 1:5 years, 1:20 years, 1:25 years, 1:50 years and 1:350 years events; flood depth maps for each event; and inventory of flood vulnerable areas for each event, and production of associated reports;
- Maintenance of floodplain maps completed under these agreements; and
- Delineation of riverine erosion hazard for the proposed priority watercourses based on toe erosion, stable slope, erosion access and meander belt allowances according to Ontario Regulation 153/06, Ontario Regulation 174/06, and Ontario Regulation 170/06, and produce associated reports;

It should be noted that to accommodate future project funding applications (i.e., Flood Hazard Identification Mapping Program), additional storm events may be required to meet funding guidelines.

The extent of regulation mapping for associated erosion and flood hazards are at the discretion of each Conservation Authority and are not included in this proposal.

2.0 Floodplain Mapping Studies

While floodplain mapping studies were completed for many watercourses within the City of Ottawa under the first and second agreements, there are additional watercourses where new or updated studies are required.

A total of 58 watercourses or reaches of watercourse were originally identified within the City of Ottawa that may require floodplain mapping updates or production, where the mapping currently does not exist. A prioritization ranking system was created in 2012 to ensure the watercourses most in need of accurate floodplain mapping are completed within the allocated budget.

The three CAs ranked all their watercourses in the same manner so that priorities for floodplain mapping are consistent across the entire city. Although the same ranking system was used by all three CAs, it should be noted that the existing and future development pressures within the three CAs' jurisdictional watersheds, within the City of Ottawa, are different. The RVCA watershed includes the oldest urban development (the old City of Ottawa) and the most hydraulically complicated floodplain areas (e.g., spills). The SNC watershed includes many villages on various watercourses, and thus development pressures are spread out across the city. The MVCA's development pressure is concentrated on fewer watercourses and much of it on the Carp River. The proposed City of Ottawa expansion areas were considered for future development needs.

All remaining watercourses were evaluated for the presence and intensity of existing development and the predicted intensity of future development. In addition, the usability of the existing mapping was considered based on staff experience when reviewing planning applications and permit approvals.

Based on the above, watercourses or watercourse reaches were ranked to determine priorities. A detailed description of the Floodplain Mapping Prioritization can be found in Appendix C, Tables 1 - 3 show the proposed priority watercourses and their reaches.

2.1 Floodplain Mapping Methodology

The methodology for completing floodplain studies and mapping is standardized throughout Canada and the United States. The methodology for the completion of floodplain studies and the production of floodplain maps is described in the following documents:

- MNR (1986). Floodplain Management in Ontario: Technical Guidelines Ontario Ministry of Natural Resources, Conservation Authorities and Water Management Branch, Toronto.
- MNR (2002). River and Stream Systems Technical Guide: Flooding Hazard Limit. Ontario. Ministry of Natural Resources, Water Resources Section, Peterborough, Ontario, 2002.
- Conservation Ontario (2005). Guidelines for Developing Schedules of Regulated Areas—Section 3.0. Conservation Ontario and the Ministry of Natural Resources, October 2005.

There are three major components of the technical work needed for floodplain mapping:

Step 1: Estimation of design floods

Various hydrologic methods are available for estimating flows to be used in floodplain mapping. Depending on the available data, the analyst can use any of the following: single station or regional flood frequency analysis, data transposition, area pro-rating method, event, or continuous watershed modeling, etc. The CAs are proposing to complete a hydrologic analysis in areas where it currently does not exist or requires updating.

Step 2: Computation of the water surface level corresponding to design floods

Hydraulic computations are necessary to calculate the water levels for designed floods. Usually, data describing the river configuration and associated crossings is necessary. There are a host of hydraulic tools that can be used, although simple, steady-state river models such as HEC-RAS have become the norm. In the case of lakes, other types of hydraulic calculations are used, depending on the outlet condition. As infrastructure has been changing over the years, the current models need to be updated to reflect the current conditions. Therefore, field surveys

and ground-truthing will be required for municipal and private structures. Based on the collected data, hydraulic computation will be conducted or revised, where necessary.

Step 3: Plotting flood lines

Once the hydraulic computation is completed, delineate flood lines corresponding to the regulatory (1:100 year) flood elevation using available topography adjacent to rivers and lakes. Flood line delineation can be automated using computer programs and the Digital Elevation Model (DEM) or done manually by interpolating contour lines.

3.0 Additional Products for Floodplain Mapping Projects

While flood hazard mapping serves as a valuable piece of information in understanding the extent of flooding for specific events, flood hazard mapping alone does not provide the information required to fully understand flood risk. Flood risk is a combination of the likelihood and consequence of flooding associated with communities, buildings, and infrastructure. Therefore, the additional products listed below will also be completed as part of this agreement.

There will be floods greater than the 1:100 and delineating a more severe flood event (the 1:350 year as described below) will assist in gaining insights into risks beyond the 1:100 for emergency management and assessment of mitigation measures. The purpose of the additional flood lines is for scoping analyses only and not for defining specific or regulatory limits. Therefore, the level of effort and exactness in delineating these additional flood events will also be consistent with the purpose of framing the risk zone.

The preparation of the flood depth products is to provide a screening-level assessment of the extent of flooding over roadways as well as an inventory of communities, buildings, and dwelling units lacking access and egress. The main users of these maps will be emergency management and asset management personnel.

3.1 Delineation of Additional Flood Lines

For the floodplain mapping studies completed under the first and second agreements, the "final product" was the production of floodplain maps showing the delineation of a flood line with a 1% annual exceedance probability (AEP), corresponding to a 1:100 year flood event. The 1:100 year flood is the flood hazard criteria for eastern Ontario as defined in the *Technical Guide River and Stream Systems: Flood Hazard Limit* (MNR 2002) and is defined as the flood event standard in all three of the CA regulations approved by the Minister of Natural Resources and Forestry under Section 28 of the *Conservation Authorities Act*. This proposal includes the delineation of the 1:100 year floodplain, however, the delineation of the regulatory extent associated with these systems are at the discretion of each CA and are not included in this proposal.

In addition to the 1:100 year flood line, the City of Ottawa requested the following flood lines be delineated for emergency planning purposes:

- 1:5 year; 20% AEP
- 1:20 year; 5% AEP
- 1:25 year; 4% AEP
- 1:50 year; 2% AEP
- 1:350 year; 0.29% AEP

The return periods, as noted above, were chosen to provide a distinguishable range of flood lines, also considering:

- The 1:5 year flood would be a nuisance or minor classification of flood events in the context of flood forecasting and warning, and this could represent a "frequent" event.
- The 1:25 year, 1:50 year, and 1:100 year are used as the design return periods in the design of bridges and culverts, based on the functional road classification by the Ontario Ministry of Transportation.
- The 1:350 year return period flood event
 - i. Has a 25% chance of occurring or being exceeded in the next 100 years;
 - ii. Is comparable to the return period of Hurricane Hazel or the Timmins Storm, already used to guide development in other areas in Ontario;
 - iii. International practice often includes flood hazard mapping ranging between 1:300 years to 1:1,000 years (e.g., Germany and the United Kingdom);
 - The 1:350 year is the standard recommended for creating flood hazard maps in the National Floodplain Mapping Assessment report prepared for Public Safety Canada; and
 - v. 1:350 was identified by the City of Ottawa Climate Strategy as City-wide climate resilience strategy and flood protection criteria.

These additional flood lines will generally be produced from existing information and will be generated through a desktop GIS exercise. Therefore, no allowance has been included in the budget for additional field surveys. The delineation of the additional flood lines will require some additional hydrologic and hydraulic calculations, and these calculations will follow the same general procedures as contained in the original reports.

It should be noted that project funding applications (i.e., Flood Hazard Identification and Mapping Program), may require the inclusion of additional storm events with different annual exceedance probabilities (AEPs) than those listed above. They are not included in this proposal.

3.2 Flood Depth Maps

To develop a more comprehensive floodplain management database, another additional product that will be produced are maps showing the depth of flooding under various flood events. As requested by the City of Ottawa for emergency planning purposes, these maps will be produced for the following events:

- 1:5 year; 20% AEP
- 1:20 year; 5% AEP
- 1:25 year; 4% AEP
- 1:50 year; 2% AEP
- 1:100 year; 1% AEP
- 1:350 year; 0.29% AEP

It should be noted that these products will utilize information produced during the original studies and analysis completed as described in Section 2.1. Discussions with the City of Ottawa staff will determine the depth that will be shown on the maps.

3.3 Inventory of Flood Vulnerable Areas

For emergency planning purposes, the City of Ottawa requested that inundated roads, buildings and flood vulnerable areas be identified for storms with a 20%, 4%, 2% and 1% AEP. These areas will be identified on maps by color-coding the affected location(s) and compiling a database that includes the following information:

- Total number of buildings;
- Number of dwellings;
- Hospitals and nursing homes;
- Schools; and
- Roads and driveways flooded by more than 0.3 m.

4.0 **Riverine Erosion Hazard Delineation**

Erosion hazards are defined by the loss of land due to human or natural processes that can pose a threat to life and property. The delineation of riverine erosion hazard ensures safe development.

Delineation of riverine erosion hazard includes the following steps:

- Review all digital elevation models (DEM), contour maps, recent surficial geological maps, hydro-stratigraphic maps (thickness of main soil units), and historical aerial imagery to identify any potential issues with regards to unstable soils (this also provides a general understanding of the study reach where the potential unconfined and confined areas could be identified);
- Identify valley toe and top of slope (DEM, contours, GIS tools, and aerial photography);
- Develop slope profiles every 10 m (GIS tools and DEM) within identified confined areas to determine if the slope heights are non-apparent (< 3 m) or apparent (3 m or greater); and
- Once "confined vs unconfined" and "apparent vs non-apparent" characteristics have been determined, delineate the regulation limit according to toe erosion, stable slope, erosion access and meander belt allowances according to Ontario Regulation 153/06, Ontario Regulation 174/06, and Ontario Regulation 170/06.

5.0 Mapping Maintenance

After the floodplain maps, under the City of Ottawa/Conservation Authority agreement, are completed, there will be a requirement to maintain the integrity of the information shown on the maps. While the initial production of the floodplain maps requires a review and/or major update of all components (e.g., hydrology, hydraulics, topographic information) for the entire watercourse reach, the maintenance of the maps, if completed on an ongoing basis, will only need to address one or two components of the input to the floodplain maps and/or will address a specific area or reach of the watercourse or watershed.

Since the flood lines shown on the maps are a combination of hydrologic, hydraulic, and topographic information, there are many triggers that necessitate **maintenance updates**.

These include:

• Changes in Land Use

Changes in land use, such as the conversion of rural areas to urban development, the expansion of the general urban boundary or a village boundary or the conversion of existing hydrologic "storage" areas (e.g., deforestation, loss of wetlands) that impact the magnitude, timing or volume of peak flows.

• Drainage Basin Revisions

Changes or revisions to drainage basin areas (i.e., diversions) that impact the magnitude, timing, or volume of peak flows.

Crossing Structure Changes

Upgrading, reconstruction, or replacement of watercourse crossings that impact water levels and flow regimes.

• Changes in Regulatory Standards

Changes in the regulatory standards used in the production of floodplain maps.

Changes in Topography

Changes in topography in the floodplain area or channel because of filling, grading, or excavation.

• Age of the Floodplain Maps

To ensure the general integrity of the floodplain maps, it is recommended that the need for a maintenance update of the floodplain maps be reviewed every 10 years.

For any maps or studies completed under this or the previous agreement, maintenance of the products will be included. The budget for maintenance is approximately 1.25% of the total funding invested in floodplain mapping products within the City of Ottawa and has been distributed over the last three years of the agreement.

6.0 Conservation Authority – Scope of Work

6.1. Mississippi Valley Conservation Authority

Four priority watercourses have been selected for flood and erosion hazard mapping within the MVCA's jurisdiction. Their priority has been ranked as Medium (See Appendix C, Table 1). The Upper Shirley's Brook and Upper Feedmill Creek projects will extend existing flood and erosion hazard limits to address headwater development pressures. The Kinburn Drain project will map hazards in the Village of Kinburn. The Carp River Tributaries is the largest project and includes three City Stream Watch (CSW) watercourses – CSW A, B and C.

As part of this agreement, existing Shirley's Brook floodplain mapping will also be updated to reflect recent development in the watershed. This project will be executed together with the Upper Shirley's Brook hazard mapping. The Kizell Drain/Watts Creek update was included as a provisional project, subject to potential development drainage changes in the watershed. Additional studies required for the Carp River floodplain mapping project are also included in Table 1.

See Appendix C, Table 1 for details.

6.2. Rideau Valley Conservation Authority

Six streams have been identified within RVCA's jurisdiction for flood and erosion hazard mapping. Most systems have several aspects that will make hazard mapping a challenge. For example, Sawmill Creek has about 35 road crossings, a water diversion structure, and many stormwater facilities. Stillwater Creek has a few erosion control structures. Graham Creek has several flood and erosion control structures, some of which are quite old and are being rehabilitated. Faulkner Drain watershed has a highly urbanized area at the upper end and ongoing modification of the municipal drain itself. Greens Creek is deeply entrenched and has many erosion issues. It is anticipated that Brassils Creek will be free of these complicating factors, however, there is a large degree of uncertainty in terms of data availability for this system.

The RVCA has therefore adopted an approach, whereby it will start all projects at the beginning. RVCA shall execute and complete them as permitted by data availability and other constraints. RCVA anticipates that some projects will move faster than others. The scope and budget are also subject to adjustments as progress is made.

See Appendix C, Table 2 for details.

6.3. South Nation Conservation

Six priority watercourses have been identified within SNC's jurisdiction. Four of them, South Castor River, Dalmeny Creek, Swerdferger Creek and Quaile Creek, are located within the Castor River watershed. Several watercourses were studied within the Castor River watershed in the past 10 years. SNC's budget includes the development of one hydrology and one hydraulic model for the Castor River watershed which includes the three main branches of the Castor, North, Middle, and South. The development of these two models will include 2D modeling for two spill areas within the Cassidy and McCooeye Creeks and within John Boyce and Osgoode Garden Cedar Acres Creeks. Floodplain and erosion hazard will be prepared for all watercourses.

The other two watercourses, Lepage Charbonneau Creek and Bickerton Creek, do not have floodplain mapping. These watercourses are located within the McKinnon's Creek Subwatershed, a Subwatershed that is within an urban expansion area in the City of Ottawa.

See Appendix C, Table 3 for details.

7.0 Data Transfer from City of Ottawa to Conservation Authorities

The following information will be provided by the three CAs to the City:

- Additional data collected on public and private structures;
- Technical reports prepared following industry-standard formatting for each watercourse or reach of watercourses; and
- Updated 1:100 year floodplain mapping in a suitable GIS layer format
 - The City may make the floodplain layer publicly available; however, this information shall only be used for information purposes.
- File Geodatabase information as detailed in Sections 2.1.

All information and data developed under the 'City of Ottawa Floodplain Mapping - Review and Maintenance' project will be owned by each respective CA. Any data/model file requests need to be made to each CA and will be subjected to a user-share agreement.

8.0 Deliverables

8.1 Flood Hazard

The deliverables are floodlines for storms with a 20%, 5%, 4%, 2%, 1%, and 0.29% annual exceedance probability for every watercourse included in this proposal, as well as associated reports, as described in Section 3. The extent of regulation mapping derived from delineated flood hazards are at the discretion each Conservation Authority and will be completed outside of this project.

8.2 Erosion Hazard

The deliverable is the riverine erosion hazard line for every watercourse as described in Section 4. The extent of regulation mapping derived from delineated erosion hazards are at the discretion each Conservation Authority and will be completed outside of this project.

8.3 Additional Products

The additional products detailed in Sections 3.1, 3.2, and 3.3 will generally be produced from existing information. A technical memorandum will be produced to document any additional hydrologic and hydraulic calculations and all procedures used in the process of delineating the additional flood lines and flood depths, identifying the flood vulnerable areas, and creating the inventory database. Since the original floodplain mapping report included a technical review and this work is simply an extension of the original analysis, an additional technical review is not required.

Maps will be produced, and flood line and flood depth maps will be provided in a File Geodatabase format for use by the City of Ottawa and the Conservation Authorities.

The products described in Sections 3.1, 3.2, and 3.3 will be prepared for all the watercourse reaches included in this proposal.

8.4 Maintenance

The deliverable is the floodplain mapping maintenance as described in Section 5.

8.5 **Project Management**

To successfully execute the work plan and to ensure all 3 CAs and the City of Ottawa are informed of the project's progress, a representative from each CA and the project lead from the City of Ottawa will meet at a minimum of quarterly intervals. Items that may be discussed at the meetings include project status, progress, results, unexpected challenges, work plan, and any proposed variances from the proposed work schedule and budget.

Each CA will keep records of all expenditures related to this project, including staff time. Quarterly reports will be sent to the city on the status and expenditures of the project.

8.6 Public Communications and Consultation

The CAs will coordinate the necessary landowner contact and permissions for access to private lands if necessary, following standardized communications plans for updating natural hazard mapping.

Public communications and consultation will include letters, newspaper advertisements, social media campaigns, open houses, and individual meetings with interested stakeholders and property owners.

CAs will be responsible for translating communication materials as needed and will coordinate and issue all advertisements, articles, social media updates, and public consultation activities (including open houses).

9.0 Schedule and Budget

A cost estimate and schedule were prepared, as shown in Appendix B, Tables 1, 2, and 3, for the duration of the agreement. The budgets shown are preliminary and subject to review and adjustment. It is anticipated that pertinent City and CA staff will be consulted from time to time to assess and adjust the scope and budget of the projects as needed.

The budget for new floodplain mapping studies includes all the additional products detailed in Sections 3.1, 3.2, and 3.3, and the reporting for these additional products will be as documented in Section 3.0. The budgets include an increase in inflation over the duration of the agreement. The City of Ottawa will continue the provision and management of the technical review for new floodplain mapping studies, and thus the budgets shown do not include an allowance for this review.

The new agreements for RVCA, SNC and MVCA are scheduled to start in 2023. Appendix B, Table 4 shows the summary of total yearly budget and funding for all three CAs.

The three CAs are proposing a 5-year project at an approximate cost of \$100,000 - \$150,000 per year per CA. The CAs and the City of Ottawa will review the work plan and budget annually; any proposed changes will be presented to the City for approval.

10.0 Prerequisites

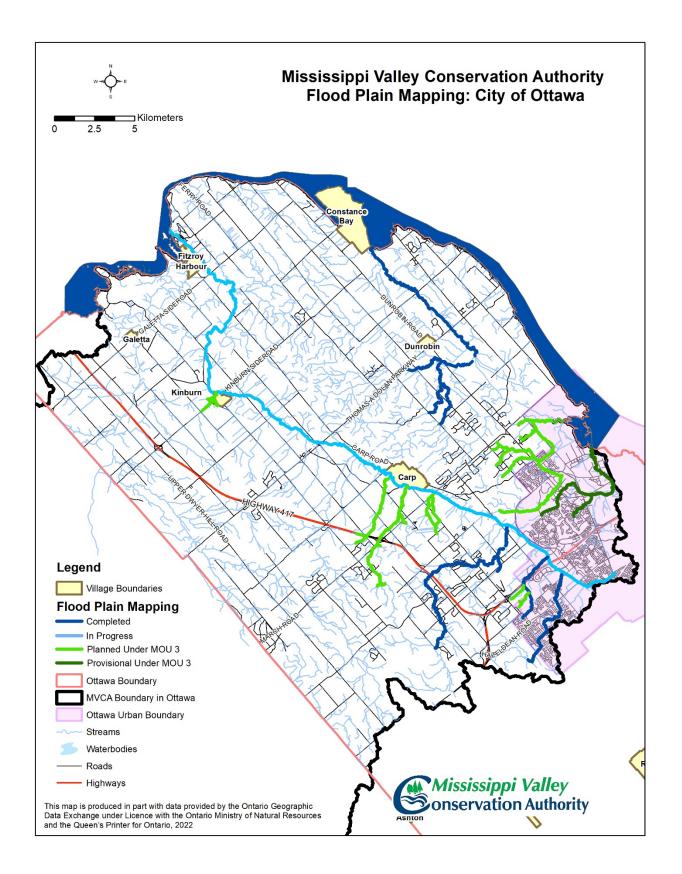
Prior to commencing the 5-year project, the following must be obtained:

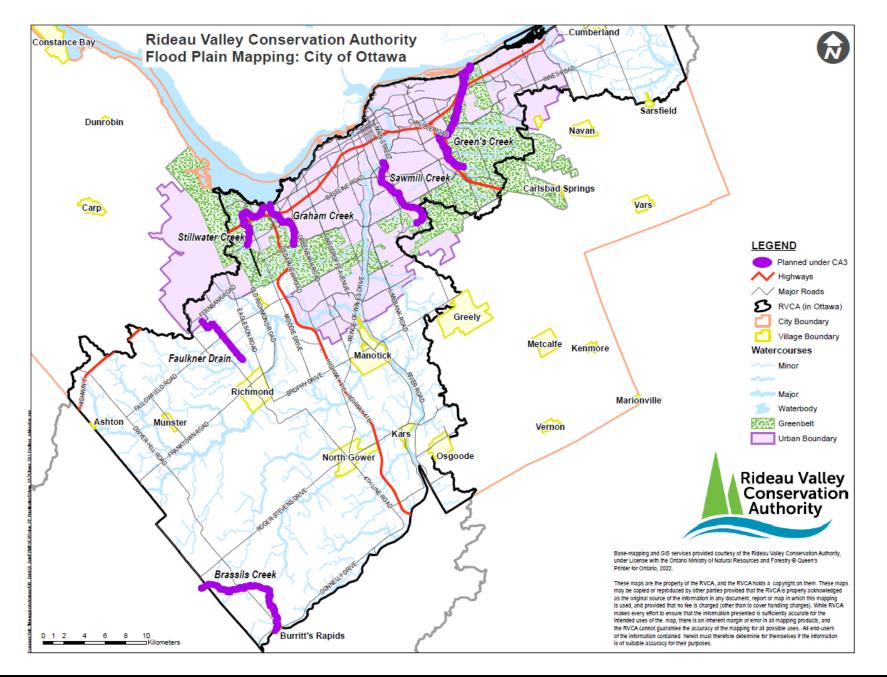
- Contribution Agreement between Conservation Partners (or each CA) and the City of Ottawa for the administration and execution of the City of Ottawa Floodplain Mapping Review and Maintenance, which will acknowledge:
 - a) A 50% cost-share partnership between each CA and the City of Ottawa, up to \$150.000 per year per CA; and
 - b) The City's allocated funds will be provided to the CAs at the onset of every year described in the work plan.
- 2. Necessary data transfers from the City to the CAs.

Once the commitments have been finalized, the 5-year work plan described in Section 6.0 of this document may be initiated. Yearly start and end dates will be identified in the Contribution Agreement.

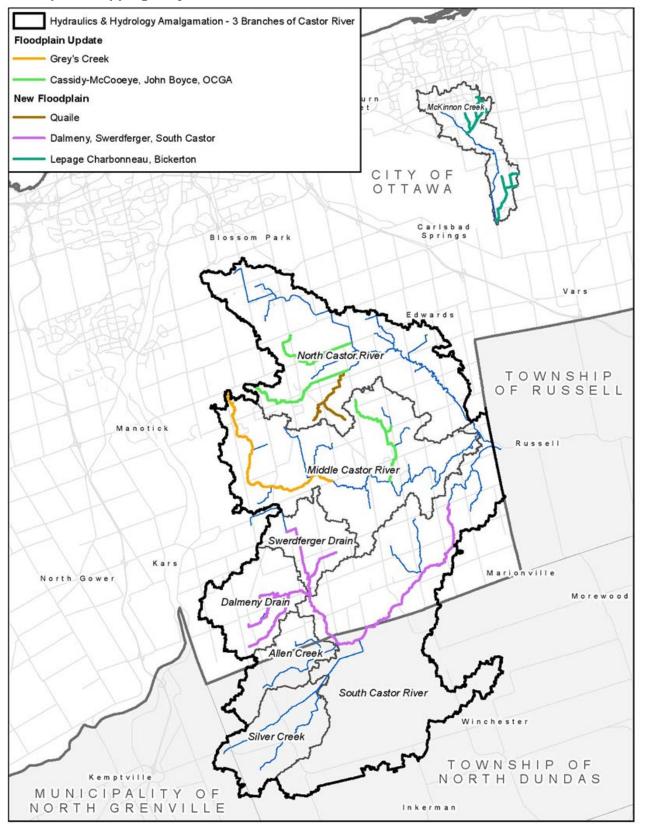
APPENDICES

APPENDIX A: MAPS





South Nation Conservation Floodplain Mapping: City of Ottawa



APPENDIX B: BUDGET AND SCHEDULE

			Tal	ble 1: Budget	and Schedule								
	Mississippi Valley Conservation Authority												
Year	Floodplain Mapping Studies	Budget	Additional Flood Lines, Flood Depth Maps and Inventory of Flood Vulnerable Areas	Budget	Erosion Hazard Mapping	Budget	Maintenance	Total Budget	50% Funding				
1 (2023)	Carp River Additional Studies	\$70,000					\$O	\$70,000	\$35,000				
	Upper Shirley's Brook & Update	\$55,547	Shirley's Brook	\$0	Shirley's Brook	\$0							
2 (2024)	Upper Feedmill Creek	\$22,665					\$5,000	\$108,986	\$54,493				
	Kizell Drain/Watts Creek Update*	\$25,774											
	Upper Shirley's Brook & Update	\$56,658	Upper Shirley's Brook	\$10,000	Upper Shirley's Brook	\$3,000		\$134,566					
3 (2025)	Upper Feedmill Creek	\$23,118	Upper Feedmill Creek	\$7,500	Upper Feedmill Creek	\$3,000	\$5,000		\$67,283				
(2023)	Kizell Drain/Watts Creek Update*	\$26,290	Kizell Drain/Watts Creek	\$0	Kizell Drain/Watts Creek	\$0							
4	Carp River Tributaries	\$88,525					\$5,000	\$139,299	\$69,650				
(2026)	Kinburn Drain	\$45,774					, , , ,	· ,					
5	Carp River Tributaries	\$90,297	Carp River Tributaries	\$17,500	Carp River Tributaries	\$6,000	\$5,000	\$175,987	\$87,994				
(2027)	Kinburn Drain	\$46,690	Kinburn Drain	\$7,500	Kinburn Drain	\$3,000		-					
	Total	\$551,338		\$420,500		\$15,000	\$20,000						
							Grand Total	\$628,838	\$314,420				

* Provisional project, subject to potential development drainage changes in the watershed.

	Table 2: Budget and Schedule												
	Rideau Valley Conservation Authority												
Year	Floodplain Mapping Studies	Budget	Additional Flood Lines, Flood Depth Maps and Inventory of Flood Vulnerable Areas	Budget	Erosion Hazard Mapping	Budget	Maintenance	Total Budget	50% Funding				
	Sawmill Creek *	\$50,000											
	Graham Creek *	\$30,000											
1 (2023)	Stillwater Creek	\$35,000	\$0	\$0	\$0	\$0	\$0	\$230,000	\$115,000				
. (2020)	Greens Creek	\$30,000		ΨŪ	ΨŬ	ΨŪ	ΨŬ		¢110,000				
	Faulkner Drain *	\$45,000											
	Brassils Creek	\$40,000											
-	Sawmill Creek *	\$50,000	- - \$0										
	Graham Creek *	\$30,000		\$0	\$0								
2 (2024)	Stillwater Creek	\$30,000				\$0	\$0	\$230,000	\$115,000				
2 (2021)	Greens Creek	\$35,000	ΨŬ						\$110,000				
	Faulkner Drain *	\$45,000											
	Brassils Creek	\$40,000											
	Sawmill Creek *	\$50,000											
	Graham Creek *	\$30,000	-										
3 (2025)	Stillwater Creek	\$25,000	\$0	\$0	* 2	• ••	\$0	\$230,000	\$115,000				
• (=•=•)	Greens Creek	\$50,000	÷-	÷	\$0	\$0	÷÷	+_00,000	<i>↓,,,,,,,,,,,,,,,,,,</i>				
	Faulkner Drain *	\$45,000	-										
	Brassils Creek	\$30,000											
	Sawmill Creek *	\$50,000											
4 (2026)	Graham Creek *	\$20,000	\$0	\$0			\$25,000	\$230,000	\$115,000				
. (2020)	Stillwater Creek	\$20,000	÷~	ΨŬ			<i>\</i> 20,000	<i>1200,000</i>	÷ ,				
	Greens Creek	\$29,000	J										

			Tat	ole 2: Budg	et and Schedule									
	Rideau Valley Conservation Authority													
Year	Floodplain Mapping Studies	Budget	Additional Flood Lines, Flood Depth Maps and Inventory of Flood Vulnerable Areas	Budget	Erosion Hazard Mapping	Budget	Maintenance	Total Budget	50% Funding					
	Faulkner Drain *	\$35,000												
	Brassils Creek	\$45,000			Brassils Creek	\$6,000								
	Sawmill Creek *	\$50,000	\$0											
	Graham Creek *	\$53,000												
5 (2027)	Stillwater Creek	\$30,000		\$0	\$0	\$0	\$25,000	\$230,000	\$115,000					
5 (2027)	Greens Creek	\$36,000			φΟ	ψŪ	φ20,000	Ψ230,000	φ115,000					
	Faulkner Drain *	\$36,000												
	Brassils Creek													
	Sawmill Creek	\$40,000			Sawmill Creek	\$6,000								
	Graham Creek	\$57,000			Graham Creek	\$6,000								
6 (2020)	Stillwater Creek	\$35,000	¢o	¢o	Stillwater Creek	\$6,000	<u>م</u>	¢100.000	¢00.000					
6 (2028)	Greens Creek	\$20,000	\$0	\$0	Greens Creek	\$10,000	\$0	\$180,000	\$90,000					
	Faulkner Drain *]]							
	Brassils Creek													
	Total	\$1,246,000				\$34,000	\$50,000							
							Grand Total	\$1,330,000	\$665,000					

* The scope, methodology, budget, and workplan of these projects cannot be accurately predicted at this time. Therefore, the budget shown is only preliminary and subject to review and adjustment. It is anticipated that pertinent City and RVCA staff will be consulted from time to time to assess and adjust the scope and budget of the project as more information is collected and analyzed. MNRF and other stakeholders may also be consulted if needed.

	Table 3: Budget and Schedule												
	South Nation Conservation												
Year	Floodplain Mapping Studies	Budget	Additional Flood Lines, Flood Depth Maps and Inventory of Flood Vulnerable Areas	Budget	Erosion Hazard Mapping	Budget	Maintenance	Total Budget	50% Funding				
	3 branches of the Castor hydrology update	\$130,692	3 branches of the Castor hydrology update		3 branches of the Castor hydrology update								
1 (2023)	3 branches of the Castor hydraulics update. Spill areas 2D modeling	\$109,308	3 branches of the Castor hydraulics update. Spill areas 2D modeling		3 branches of the Castor hydraulics update. Spill areas 2D modeling			\$240,000	\$120,000				
2	3 branches of the Castor hydraulics update. Spill areas 2D modeling	\$15,610	3 branches of the Castor hydraulics update. Spill areas 2D modeling	\$13,545	3 branches of the Castor hydraulics update. Spill areas 2D modeling	\$28,465	\$3,000	\$240,000	\$120,000				
(2024)	Quaile Creek	\$133,329	Quaile Creek	\$12,000	Quaile Creek	\$9,377	\$5,000						
	South Castor River and Tributaries	\$19,675	South Castor River and Tributaries		South Castor River and Tributaries								
3 (2025)	South Castor River and Tributaries	\$194,237	South Castor River and Tributaries	\$14,735	South Castor River and Tributaries	\$21,385		\$240,000	\$120,000				
	Dalmeny Creek	\$9,642	Dalmeny Creek		Dalmeny Creek								
4 (2026)	Dalmeny Creek	\$88,571	Dalmeny Creek	\$9,975	Dalmeny Creek	\$10,925	\$7,000	\$240,000	\$120,000				

			Та	able 3: Budg	et and Schedule									
	South Nation Conservation													
Year	Floodplain Mapping Studies	Budget	Additional Flood Lines, Flood Depth Maps and Inventory of Flood Vulnerable Areas	Budget	Erosion Hazard Mapping	Budget	Maintenance	Total Budget	50% Funding					
	Swerdferger Creek	\$94,965	Swerdferger Creek	\$9,660	Swerdferger Creek	\$11,813								
	Lepage Charbonneau Creek	\$7,092	Lepage Charbonneau Creek		Lepage Charbonneau Creek									
5 (2027)	Lepage Charbonneau Creek	\$170,433	Lepage Charbonneau Creek	\$14,500	Lepage Charbonneau Creek	\$8,233	\$10,000	\$240,000	\$120,000					
()	Bickerton Creek	\$36,834	Bickerton Creek		Bickerton Creek									
6 (2028)	Bickerton Creek	\$141,874	Bickerton Creek	\$14,500	Bickerton Creek	\$9,611		\$165,985	\$82,992					
	Total		\$1,152,261		\$88,915		\$99,809							
							Grand Total	\$1,365,985	\$682,992					

						Table 4: Anr	nual Budget a	and Funding							
	Summary of 3 Conservation Authorities														
2023 2024 2025 2026 2027 2028												Destaura			
CAs	Total	50% funding	Total	50% funding	Total	50% funding	Total	50% funding	Total	50% funding	Total	50% funding	Total/CA	Partners Allocation	
MVCA	\$70,000	\$35,000	\$108,986	\$54,493	\$134,566	\$67,283	\$139,299	\$69,650	\$175,987	\$87,994			\$628,838	\$314,420	
RVCA	\$230,000	\$115,000	\$230,000	\$115,000	\$230,000	\$115,000	\$230,000	\$115,000	\$230,000	\$115,000	\$180,000	\$90,000	\$1,330,000	\$665,000	
SNC	\$240,000	\$120,000	\$240,000	\$120,000	\$240,000	\$120,000	\$240,000	\$120,000	\$240,000	\$120,000	\$165,985	\$82,993	\$1,365,985	\$682,993	
Annual Total	\$540,000	\$270,000	\$578,986	\$289,493	\$604,566	\$302,283	\$609,299	\$304,650	\$645,987	\$322,994	\$345,985	\$172,993	\$3,324,823	\$1,662,413	

APPENDIX C: DETAILED FLOODPLAIN MAPPING PRIORITIZATION METHODOLOGY

Detailed Floodplain Mapping Prioritization Methodology:

Through discussion with the 3 CAs, it was determined that the importance of having updated floodplain mapping for the purposes of this project is dependent on the presence of existing development, the probability of future development, and the quality of existing mapping. If there were other constraints that would restrict or prevent development, then the importance of this should decrease.

Each of these components (Existing Development, Future Development, and usability) was given a value of High, Medium, and Low. For consistency, these values were defined as:

Existing Development (choices influenced by existing zoning; dominant condition was employed):

- None No development; vacant land, unused farmland, etc.: EP, AG
- Low-Rural (anything else not listed)
- Medium Estate Residential, ICI: I(any), RC, RG, RH, RI, LC, GM, TM, AM, MC, MD
- High Urban, village, or Waterfront development: R1-5, RM, T1, T2, V(any), DR, adjacent to Major River/Lake

Future Development (choices made by Official Plan or other source of plan; the highest condition was used):

- None other constraints: Sand/Gravel/Limestone resource area, Greenbelt, Major Open Space
- Low restricted development: Rural Natural Feature
- Medium Previously approved development: Carp Corridor, Carp Airport, known developments
- High Within urban/village boundary

Usability:

- None Never been mapped
- Low Unacceptable; decisions should not be made using this information.
- Medium Satisfactory; generally a reasonable representation of reality
- Good Easy to use; high confidence that what is shown accurately represents existing conditions.

Existing and Future development were each given a score of 0 (none) to 3 (High); usability was given a score of 4 (none) to 1 (High), and other constraints were given a score of 1 (no) or 0 (yes). Components were then combined using the formula:

Score = (Existing Development + Future Development) * Usability

Final scores determine whether the watercourse/reach of watercourses is high, medium, or low in terms of requiring floodplain mapping:

- Low = Less than 10
- Medium = 10 to less than 20
- High = 20 and higher

	Table 1: Floodplain Mapping Project Details													
	Mississippi Valley Conservation Authority													
Watercourse/ Reach Name	Coverage	Total Length of Watercourse (km)	Length of Floodplain Mapping Reach (km)	Total Watercourse Drainage Area (km²)	# of Structures within Floodplain Mapping Reach	Previous Floodplain Mapping?	Comments							
Upper Shirley's Brook & Update	Old 2nd Line Rd to Existing Shirley's Brook Study	22.8	22.8	31.2	20	Yes	No previous mapping for Upper Shirley's Brook							
Upper Feedmill Creek	Carp Rd to Existing Feedmill Creek Study	3.9	3.9	1.1	4	No								
Carp River Tributaries	City Stream Watch Tributary A, B, C	34.5	21.8	81.3	21	No								
Kinburn Drain	Kinburn Sdrd at Mohrs Rd to Carp River	3.3	3.3	2	4	No								
Kizell Drain/ Watts Creek	Eagleson Rd/Walden Dr to Ottawa River	19.7	19.7	25	30	Yes								

	Table 2: Floodplain Mapping Project Details													
	Rideau Valley Conservation Authority													
Watercourse/ Reach Name	Coverage	Total Length of Watercourse (km)	Length of Floodplain Mapping Reach (km)	Total Watercours e Drainage Area (km²)	# of Structures within Floodplain Mapping Reach	Previous Floodplain Mapping?	Comments							
Sawmill Creek	Rideau River to Lester Road	20	18	21	35	no								
Graham Creek	Ottawa River to Hunt Club Road	16	13	25	15	no								
Stillwater Creek	Ottawa River to Robertson Road	16	13	24	10	no								
Greens Creek	Ottawa River to Ramsayville Road	38	32	114	15	no								
Faulkner Drain	Flewellyn Road to Flowing Creek	7	6	14	5	no								
Brassils Creek	Rideau River to Roger Stevens Drive	25	23	68	6	no								

Table 3: Floodplain Mapping Project Details											
		Sou	uth Nation Conser	vation							
Watercourse/ Reach Name	Coverage	Total Length of Watercourse (km)	Length of Floodplain Mapping Reach (km)	Total Watercourse Drainage Area (km²)	# of Structures within Floodplain Mapping Reach	Previous Floodplain Mapping?	Comments				
3 Branches of the Castor and tributaries (North, Middle and South Castor)	North: Leitrim wetland(Start of Findlay/NC FP) to Boundary Road Middle: Southeast of Mitch Owens/Manotick Station Road (Start of Grey's Creek FP) to North Castor SW of Victoria St South: West of Gordon Murdock Road (Dalmeny). North of Springhill Road (Swerdferger) to Boundary Road	208	88	420	107	Partial	Floodplain Mapping reaches include new and updated reaches				
Quaile Creek	W of Bank/Sale Barn Road to North Castor	7	7	10	8	No					
South Castor and tributaries	South Castor Portion: S of Dalmeny Road to Springhill Road (Start of 2020 SC FP)	102	42	190	30	Partial					
Dalmeny Creek	NE of Dalmac/Forest to South Castor (S of Dalmeny Road)	15	15	31	18	No					
Swerdferger	E of Godron Murdock Road to South Castor (S of Dalmeny Road)	9	9	25	12	No					
Lepage Charbonneau Creek	North of Wall Road and East of Avalon Subdivision to McKinnons Creek	8.5	8.5	4.2	8	No					
Bickerton Creek	W of Trim Road to Richard Clark Municipal Drain.	6.5	6.5	3.8	6	No					