

MISSISSIPPI VALLEY CONSERVATION AUTHORITY
51st ANNUAL MEETING

MVCA Boardroom

February 20, 2019

1:00 p.m.

AGENDA

ROLL CALL

Adoption of Agenda

Declaration of Interest (written)

ITEMS FOR DECISION

1. Minutes – Board of Directors Meeting – December 5, 2018
2. Minutes – Finance & Administration Meeting – February 14, 2019
3. Business Arising from the Minutes
4. Presentation 2018 Financial Statements (to follow)
5. Election of Officers for 2019
6. Appointment of Auditors for 2019
7. 2019 Budget and Work Plan (Staff Report #2988/19)
8. Member Per-Diems, Honorarium and Mileage Rates for 2019 (Staff Report #2989/19)
9. 2019 Committee Appointments

ITEMS FOR INFORMATION

10. Presentation of Annual Report
11. Ontario Regulation 153/06 Permits (Staff Report #2991/19)
12. Watershed Conditions Update (Staff Report #2992/19)
13. Correspondence
 - a. Letter to Minister McKenna (attached)
14. Other Business

ADJOURNMENT

MISSISSIPPI VALLEY CONSERVATION AUTHORITY
BOARD OF DIRECTORS

Mississippi Valley Conservation Centre
Carleton Place

MINUTES

December 5, 2018

MEMBERS PRESENT:

D. Abbott, Chair;
J. Mason, Vice-Chair;
M. Burnham;
F. Campbell;
G. Code;
J. Flynn;
A. Gillis;
J. Hall;
J. Karau;
B. MacDonald;
G. McEvoy;
G. Martin;
P. Sweetnam;
K. Thompson;
M. Wilkinson.

MEMBERS ABSENT:

D. Black;
E. El-Chantiry.

INVITED MEMBER PRESENT:

L. Antonakos.

STAFF PRESENT:

P. Lehman, General Manager;
J. Sargeant, Secretary-Treasurer;
A. Broadbent, Information Technology Supervisor;
M. Craig, Manager, Planning and Regulations;
R. Fergusson, Operations Supervisor;
S. Gutoskie, Community Relations Coordinator;
G. Mountenay, Water Management Supervisor;
J. Price, Director, Water Resources Engineering;
E. Levi, Recording Secretary.

VISITORS PRESENT:

M. Kubasiewicz, Member, South Nation Conservation.

Mr. Abbott called the meeting to order at 10:00 a.m.

BUSINESS:

1. Minutes – Board of Directors Meeting – October 17, 2018

B12/05/18-1

MOVED BY: M. Burnham

SECONDED BY: G. Code

Resolved, That the Minutes of the Mississippi Valley Conservation Authority Board of Directors meeting held on October 17, 2018 be received and approved as amended.

“CARRIED”

2. Minutes – Source Protection Authority Meeting – October 17, 2018

B12/05/18-2

MOVED BY: G. Code

SECONDED BY: M. Burnham

Resolved, That the Minutes of the Mississippi Valley Conservation Source Protection Authority meeting held on October 17, 2018 be received.

“CARRIED”

3. Minutes – Administration and Finance Advisory Committee Meeting – November 20, 2018

B12/05/18-3

MOVED BY: M. Burnham

SECONDED BY: G. Code

Resolved, That the Minutes of the Mississippi Valley Conservation Administration and Finance Advisory Committee meeting held on November 20, 2018 be received.

“CARRIED”

4. Business Arising from the Minutes

B12/05/18-4

MOVED BY: B. MacDonald

SECONDED BY: J. Karau

Resolved, That \$8,000.00 be transferred to the IT reserve in 2018 as per the 2018 Approved Budget.

“CARRIED”

B12/05/18-5

MOVED BY: A. Gillis

SECONDED BY: G. Martin

Resolved, That the proposed 2019 Planning Advisory and Regulation Program Fee Schedule be approved.

“CARRIED”

5. 2018 Budget Projections and 2019 Draft Budget

Mr. Lehman reviewed Staff Report #2981/18 regarding the 2019 Draft Budget. He outlined budget pressures as follows:

Salaries and Wages

- The 2019 Budget has included an average wage adjustment of 4.0% (2.5% COL plus average 1.5% merit) amounting to \$71,900. The CPI (Ontario/all-items) for October 2018 was 2.5% over 2017.

Administration

- Consulting fees in the amount of \$8,000 has been included to assist in recruitment for Secretary-Treasurer and conducting a Salary Review in 2019.

Watershed Planning

- Portions of the Mississippi River Watershed Plan are eligible for provincial support however, due to additional support being unavailable from the typical annual allocation, staff propose to use a portion of the Glen Cairn proceeds (which represent the provincial share of the original project) to support the watershed plan in the amount of \$35,500.
- In an effort to address high levels of sedimentation in the Carp River downstream of Richardson Side Road, staff propose to collaborate with the University of Ottawa in conducting a geomorphological assessment of the Carp River with funding support from the Glen Cairn reserve in the amount of \$14,000.

Studies

- In 2019, two flood plain mapping projects will be undertaken with funding support from the National Disaster Mitigation Program which will be \$15,000 less than in 2018.

Plan Review Program

- Based on projected revenues in 2018, revenues in 2019 are projected to be \$10,000 more than budgeted in 2018. This includes a projected increase in fees of 2% to reflect the cost of living.

Preventative Maintenance of Flood Control Structures

- With continued erosion of eligible expenditures receiving provincial support, it is proposed that the Glen Cairn reserve be used to support the shortfall in provincial support in the amount of \$68,728.

Conservation Services

- In an effort to initiate and support a broad stewardship program across MVCA, the 2019 draft Budget includes a 9-month Stewardship Technician position at a cost of \$42,000.

Mr. Lehman commented on projected capital expenditures over the next ten year period. He noted that the current projections until the year 2028 amount to \$7,687,848 requiring a total municipal levy assessed on a general benefitting basis of \$5,270,050 or an average of \$527,005/year. To support the capital expenditures over the next ten years, it is proposed that a Capital Levy be assessed on a general benefitting basis in the amount of \$527,005 as follows:

- 1) Water Control Structure Capital Projects - \$180,000 (\$65,867 in 2018)
- 2) Administration Office Capital Construction and Maintenance - \$317,005 (\$277,005 in 2018)
- 3) Conservation Area Maintenance and Upgrade - \$30,000 (\$13,000 in 2018)

Mr. Lehman noted that surplus in any given year would be directed to a capital reserve for future year projects and the Authority's general operating surplus could be used to temporarily finance projects when sufficient reserve funds are not available in that particular year. Based on projected expenditures, the general operating surplus will be reduced from its current amount of \$682,002 to \$294,738 by 2024 which is approximately 8% of MVCA's Operating Budget. Alternatively, capital projects could be levied in the year which the project is undertaken which would result in significant fluctuations in the municipal levy from year to year.

Ms. Mason commented that there is a large amount of upcoming infrastructure cost. She noted that the options being proposed are that the authority average the cost over the next ten years, or that the

cost is levied in the year in which it has to be expended. She noted that the charts which were presented show the revenues and the expected costs, in addition to outlining how the reserves go up and down over the years to compensate.

B12/05/18-6

MOVED BY: M. Wilkinson

SECONDED BY: G. Code

Resolved, That the 2019 Draft Budget based on average capital costs over 10 years be received and circulated to member municipalities for comment.

“CARRIED”

6. Memorandum of Agreement – City of Ottawa & Conservation Partners for Plan Input & Review Services

Mr. Craig reviewed Staff Report #2982/18 regarding an update to the existing Memorandum of Agreement between the City of Ottawa and the Conservation Authority Partners (Mississippi Valley, Rideau Valley and South Nation Conservation Authorities) for Plan Input and Review Services. He noted that the former agreement signed in 2003 requires updating to reflect the following:

- the new (2014) Provincial Policy Statement
- the City of Ottawa official plan
- changes to the Conservation Authorities Act
- termination of the Conservation Authorities agreement with the Federal Department of Fisheries and Oceans
- transfer of review for environmental compliance approvals for stormwater management from the Ministry of Environment Conservation and Parks to the City of Ottawa
- Conservation Authorities significant role in plan input (official plan, master servicing studies, community design plans, subwatershed studies, etc.)
- the need for more clarity around roles and responsibilities
- outdated terminology

Mr. Craig advised that the memorandum of agreement does not change the current role and scope of the Conservation Partners planning advisory services within the City of Ottawa. He also noted that a clause for annual evaluation is included and minor amendments, as agreed upon by both parties, may be made by addendum to the agreement. Proposed major amendments to the agreement would be reported to the Board of Directors.

B12/05/18-7

MOVED BY: M. Burnham

SECONDED BY: K. Thompson

Resolved, That Staff Report #2982/18 be received, and furthermore

Resolved, That the Chair of the Mississippi Valley Conservation Authority be authorized to enter into a Memorandum of Agreement with the City of Ottawa and the Conservation Partners for plan input and review services.

“CARRIED”

7. Christmas Season Office Closure

B12/05/18-8

MOVED BY: G. Code

SECONDED BY: B. MacDonald

Resolved, That the Mississippi Valley Conservation Administration Office be closed for the Christmas Season December 24 to December 31, 2018 inclusive.

“CARRIED”

8. Letter from Mr. Randy Hillier, MPP and Joint MVCA/RVCA Response

Mr. Lehman reviewed a copy of a letter received from Mr. Randy Hillier, MPP to the Minister of the Environment, Conservation and Parks regarding his concerns with activities of Rideau Valley and Mississippi Valley Conservation Authorities. He noted that a joint response letter from Rideau and Mississippi Valley Conservation Authorities was circulated to Municipal Councils in both watersheds and copies sent to Mr. Hillier, the Minister of Municipal Affairs and Housing, the Minister of the Environment, Conservation and Parks as well the Minister of Natural Resources and Forestry.

Mr. Lehman reinforced that the Authority is willing to attend municipal council meetings to answer any questions or concerns generated by these letters.

9. Carp River Living Classroom Project

Ms. Mason gave a presentation regarding a Carp River Living Classroom initiative which provides wetland education and appreciation of nature in suburban Ottawa. She noted that the project was presented to the Mississippi Valley Conservation Foundation as well and she is seeking the support of the Board of Directors.

B12/05/18-9

MOVED BY: M. Wilkinson

SECONDED BY: G. Code

Resolved, That the Carp River Living Classroom Project be endorsed by the Board of Directors.

“CARRIED”

10. Conservation Authorities in the Ottawa River Basin

The presentation from Mr. Karau was deferred to a future meeting.

11. Cross Street & Company – Audit Planning Letter

There was no discussion regarding the audit planning letter.

12. Watershed Conditions Report

There was no discussion regarding the watershed conditions report.

13. 2019 Meeting Schedule

There was no discussion regarding the 2019 meeting schedule.

14. Ontario Regulation 153/06 Permits

There was no discussion regarding the Ontario Regulation 153/06 permits.

ADJOURNMENT

The meeting was adjourned at 12:00 p.m.

B12/05/18-10

MOVED BY: J. Flynn

SECONDED BY: M. Burnham

Resolved, That the Board of Directors meeting be adjourned.

“CARRIED”

“E. Levi, Recording Secretary

D. Abbott, Chair”

Staff Report #2988/19

February 13, 2019

Memorandum

To: Chair and Members of the Board of Directors
Mississippi Valley Conservation Authority

From: Paul Lehman, P.Eng.
General Manager

Re: 2019 Budget

Attached for your consideration is the 2019 Budget. As described in pages 2 and 3 of the Budget report, the 2019 Budget endeavours to address a variety of challenges in 2019 and beyond.

Transfer Payments

MVCA receives a provincial transfer payment of approximately \$249,000 to support 50% of the following programs and activities in accordance with the Policies and Procedures for Provincial Grant Funding to Conservation Authorities (1997).

- 1) Operation and maintenance of flood and erosion control structures
- 2) Operation of flood forecasting and warning systems
- 3) Ice management
- 4) Plan input to natural hazards policies at the upper-tier municipal level
- 5) Information management and technical studies to address natural hazards and support Section 28 regulations such as flood plain mapping
- 6) Legal costs associated with capital projects supported by the province
- 7) General administration costs of the conservation authority

While the provincial transfer payment has remained relatively stable, it has not increased over the past 22 years despite inflationary increases reflected through an increase in the consumer price index of over 50%. It is estimated that in 2018/19 the provincial share of eligible expenses will continue to erode such that the provincial transfer payment will amount to approximately 22% of eligible expenses as opposed to the allowable 50%, resulting in a shortfall of \$321,000.

Capital Expenditures

Proposed capital expenditures in 2019 require a Capital Project Levy to be assessed on a general benefitting basis of \$455,326 as compared to \$355,872 in 2018. The increase in municipal levy amounting to \$99,454 is a result of water control structure projects which are eligible for 50% Water and Erosion Control Infrastructure (WECI) funding support from the province.

As described in Page 3 of the Budget report, projected capital expenditures over a ten year period to 2028 amount to \$7,687,848 requiring a total municipal levy assessed on a general benefitting basis of \$5,270,050 or an average of \$527,005/year. To support the projected capital expenditures over the next ten years, it is proposed that a Capital Levy be assessed on a general benefitting basis in the amount of \$527,005 as follows:

- 1) Water Control Structure Capital Projects - \$180,000 (\$65,867 in 2018)
- 2) Administration Office Capital Construction and Maintenance - \$317,005 (\$277,005 in 2018)
- 3) Conservation Area Maintenance and Upgrade - \$30,000 (\$13,000 in 2018)

Any surplus in a given year would be directed to a capital reserve for future year projects and the Authority's general operating surplus could be used to temporarily finance projects when sufficient reserve funds are not available in that particular year. Based on projected expenditures, the general operating surplus will be reduced from its current amount of \$682,002 to \$294,738 by 2024 which is approximately 8% of MVCA's Operating Budget. The general operating surplus is typically used to finance Operating expenses until municipal levies and provincial transfer payments are received.

Alternatively, capital projects could be levied in the year which the project is undertaken which would result in significant fluctuations in the municipal levy from year to year as shown in Table 1 (Option b).

Table 1 – Capital Levy Comparison

Year	10 yr Average	Option b
2018	\$355,872	\$355,872
2019	\$527,005	\$455,327
2020	\$527,005	\$691,505
2021	\$527,005	\$394,505
2022	\$527,005	\$789,833
2023	\$527,005	\$856,505
2024	\$527,005	\$557,005
2025	\$527,005	\$425,005
2026	\$527,005	\$337,005
2027	\$527,005	\$454,505
2028	\$527,005	\$277,005

To assist in minimizing the overall impact on the municipal levy, the 2019 Budget proposes to allocate \$118,228 from the Glen Cairn reserve to support expenditures which are eligible for provincial support as described above. The Glen Cairn reserve which currently holds \$697,000, was established from the proceeds of a property sale in 2016 and represents the provincial share from that project. Specifically the eligible expenditures include the following projects and activities:

Mississippi River Watershed Plan - \$35,500

Carp River Stream Morphology Study - \$14,000

Preventative Maintenance of Flood Control Structures - \$68,728

The 2019 Budget as presented in the Budget report includes an Administration and Maintenance levy of \$2,500,845 as compared to \$2,442,680 in 2018 and a Capital Project levy of \$527,005 as compared to \$355,872 in 2018 amounting to a total municipal levy to be assessed on a general benefiting basis of \$3,027,850.

As directed by the Board of Directors, the 2019 Draft Budget was circulated to member municipalities for comment. To date no comments have been received.

Recommended Resolution:

Resolved, That the total 2019 Operating and Capital expenditure in the amount of \$4,471,369 be approved; and furthermore,

Resolved, That the 2019 Administration and Maintenance levy to be apportioned on a general benefiting basis be in the amount of \$2,500,845; and furthermore,

Resolved, That 2019 Capital Project levy to be apportioned on a general benefiting basis be in the amount of \$527,005.



2019 Budget

February 20, 2019

Table of Contents

Section	Page
Introduction	1
Description of Operating Significant Budgetary Pressures	2
List of Tables	
Table 1 - 2019 Operating Budget Summary	5
Table 2 - 2019 Capital Budget Summary	6
Table 3a - 2019 Administration and Maintenance Levy	7
Table 3b - 2019 Capital Project Levy	7
Table 3c - 2019 Municipal Levy	7
List of Figures	
Figure 1 - Mississippi Valley Conservation Watershed	
2019 Work Plan	
- Corporate Services	8
- Watershed Planning	9
- Watershed Monitoring	10
- Information Management	11
- Planning Advisory and Regulations	12
- Flood Forecasting and Warning	13
- Operation and Maintenance of Water and Erosion Control Structures	14
- Conservation Services	15
- Land Management	16
- Conservation Awareness	17
Appendix A – 2019 Program Budget Details	
- Administration	A1
- Communications	A2
- Operations	A3
- Information Management	A4
- Watershed Planning	A5
- Watershed Monitoring	A6
- Studies	A7
- Plan Review	A8
- Regulations	A9
- Flood Forecasting and Warning	A10
- Operation of Water and Erosion Control Structures	A11
- Preventative Maintenance of Water and Erosion Control Structures	A12
- Conservation Services	A13
- Land Management	A14
- Conservation Education	A15
- Visitor Services	A16
- Water and Erosion Control Structures – Capital	A17
- Administration Office – Capital	A18
- Conservation Area Development – Capital	A19
- Reserve Investments	A20

Introduction

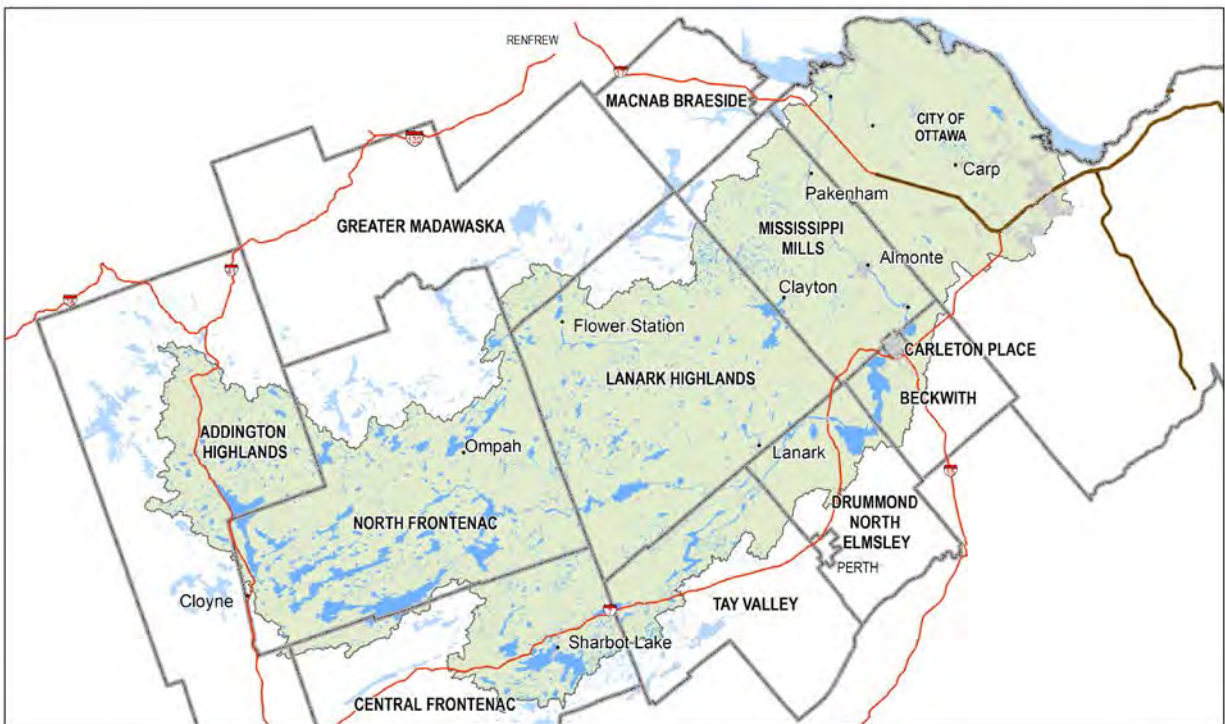
The Mississippi Valley Conservation Authority (MVCA) is a watershed based agency which supports an integrated approach to the management and protection of our water resources in collaboration with watershed stakeholders.

In 2017, historic flood conditions were experienced across much of Ontario including the Mississippi and Ottawa Rivers which was in stark contrast to the severe drought affecting eastern Ontario in 2016 which impacted water supplies, agriculture, water quality conditions and hydro-electricity production. Climate projections indicate that these conditions will become more prevalent in the future. Maintaining the resiliency of the watershed's natural systems and infrastructure to mitigate the resulting impacts is an important part of MVCA's broader integrated watershed management program.

The programs and services delivered by MVCA are designed to assist our municipal partners and other stakeholders in protecting people and property from natural hazards while protecting our watersheds natural resources through a collaborative approach. The Mississippi Valley Conservation Authority 2019 Budget, as presented herein focuses on planning for the future to effectively deliver integrated watershed management services on behalf of the municipalities and residents of the Mississippi Valley (Figure 1).

MVCA is in the process of completing its Asset Management Plan focusing on high risk assets such as water control structures, buildings and public use areas. As presented on Page 3 – Asset Management and Capital Financing, a ten year financing plan is proposed to address significant infrastructure investment needs beginning in 2019.

Figure 1 – Mississippi Valley Conservation Authority Watershed



Description of Significant Budgetary Pressures

A description of the significant factors affecting the 2019 Budget is outlined below. Please refer to:

Table 1 – 2019 Operating Budget Summary (Page 5)

Table 2 – 2019 Capital Budget Summary (Page 6)

Table 3a – 2019 Administration and Maintenance Levy (Page 7)

Table 3b – 2019 Capital Project Levy (Page 7)

Table 3c – 2019 Total Municipal Levy (Page 7)

Operating Budget Pressures

Salaries and Wages

- The 2019 Budget has included an average wage adjustment of 4.0% (2.5% COL plus average 1.5% merit) amounting to **\$71,900**. The CPI (Ontario/all-items) for October 2018 was 2.5% over 2017.

Administration (Page 4)

- Consulting fees in the amount of **\$8,000** has been included to assist in recruitment for Secretary-Treasurer and conducting a Salary Review in 2019.

Watershed Planning (Page 8)

- Portions of the Mississippi River Watershed Plan are eligible for provincial support however, due to additional support being unavailable from the typical annual allocation, staff propose to use a portion of the Glen Cairn proceeds (which represent the provincial share of the original project) to support the watershed plan in the amount of **\$35,500**,
- In an effort to address high levels of sedimentation in the Carp River downstream of Richardson Side-road, staff propose to collaborate with the University of Ottawa in conducting a geomorphological assessment of the Carp River with funding support from the Glen Cairn reserve in the amount of **\$14,000**.

Studies (Page 10)

- In 2019, two flood plain mapping projects will be undertaken with funding support from the National Disaster Mitigation Program which will be **\$15,000** less than in 1918.

Plan Review Program (Page 11)

- Based on projected revenues in 2018, revenues in 2019 are projected to be **\$10,000** more than budgeted in 2018. This includes a projected increase in fees of 2% to reflect the cost of living.

Preventative Maintenance of Flood Control Structures (Page 15)

- With continued erosion of eligible expenditures receiving provincial support, it is proposed that the Glen Cairn reserve be used to support the shortfall in provincial support in the amount of **\$68,728**.

Conservation Services (Page 16)

- In an effort to initiate and support a broad stewardship program across MVCA, the 2019 draft Budget includes a 9 month Stewardship Technician position at a cost of **\$42,000**.

Asset Management and Capital Financing

As a part of MVCA's asset management planning, a ten year projection of capital expenditures was completed for water control structures, buildings and conservation area infrastructure as described below:

Water Control Structures

MVCA currently operates and maintains 12 water control structures of various types and ages. Structures are inspected annually to identify emerging maintenance issues and are subjected to more detailed dam safety and engineering assessments on a priority basis. These assessments identify potential issues associated with structural integrity along with operator and public safety considerations. Based on these assessments, it has been determined that two structures have exceeded their life cycle and are in need of reconstruction and a third structure is in need of rehabilitation to address operator and public safety issues. Four dam safety assessments are scheduled for additional structures over the next ten years of which one is anticipated will indicate rehabilitation or reconstruction of the structure is required. Failure to address these deficiencies will likely result in the existing levels of service not being met and operator and public safety could be placed at risk, exposing MVCA to liability.

Major maintenance of these flood control structures continues to be eligible for 50% provincial funding under the Water and Erosion Control Infrastructure (WECI) program. Due to the importance of these structures to mitigate flood risk and maintain downstream water supplies, the benefits are considered to apply watershed wide and are therefore assessed on a general benefitting basis. Total expenditures eligible for provincial WECI funding support amount to \$3,562,300 requiring a municipal share of \$1,781,150 or an average of \$178,115/year over the next ten years. By comparison, the average municipal share of WECI eligible projects over the previous ten years was \$41,100. MVCA currently holds \$75,395 in a restricted Water Control Structure reserve.

Administration Office Building

In 2013 MVCA completed construction of a new administration office building through a financing agreement with the Town of Carleton Place whereby MVCA is required to repay the construction cost of \$4,580,378 over a 25 year period with annual payments of \$277,005. The Development Permit Agreement for the Administration Office Building specifies that when municipal sewer and water services are available, which is anticipated to be by 2022, MVCA will be required to connect to those services at an estimated cost of \$348,000. Including a building condition assessment and projected repairs and restoration over the next ten years, expenditures on the Administration Office Building will total \$3,193,000 or an average of \$319,300/year. This amount includes the \$277,005 annual repayment. MVCA currently holds \$298,701 in a restricted Administration Building reserve.

Conservation Area Infrastructure

MVCA currently operates and maintains three conservation areas in addition to the 40 km K&P Trail and is in the process of completing a trail in Roy Brawn Park in cooperation with the Town of Carleton Place. These conservation areas include nine buildings, washroom facilities and other

amenities such as the 400 m boardwalk at the Purdon Conservation Area.

Projected expenditures over the next 7-10 years for asset condition assessments, maintenance and upgrades beyond that which can be achieved through the Land Management maintenance budget will require municipal levy support of \$272,000. In 2018 \$13,000 in municipal levy was allocated to Conservation Area capital development and upgrades. There is no dedicated reserve for conservation area development and the necessary investments in infrastructure is hindered due to uncertainty as to when sufficient funding may become available. Without on-going investment in upgrading the infrastructure supporting these significant public areas, facilities will continue to deteriorate and risk being closed to the public.

Capital Financing

Over the next ten years, projected capital expenditures will require municipal levy support in the amount of \$5,246,150 as follows:

Water Control Structures	\$1,781,150
Administration Office Building	\$3,193,000
Conservation Area Infrastructure	\$272,000
Total	\$5,246,150

In 2018, the municipal levy required to support capital expenditures on these assets was \$355,872. Based on the anticipated schedule of projected expenditures, the municipal levy required in 2019 will be \$455,327 and over the next ten years will fluctuate considerably from year to year, with a high of \$856,505 in 2023 to a low of \$277,005 in 2028. To moderate these fluctuations, the MVCA Board of Directors propose to assess capital project levies on a general benefitting basis in 2019 as follows and maintain this amount over a ten year period:

Water Control Structures	\$180,000
Administration Office Building	\$317,000
Conservation Area Infrastructure	\$30,000
Total	\$527,005

By implementing the proposed ten-year capital financing plan, any surplus in a given year would be directed to a capital reserve for future year projects and the Authority's unrestricted operating surplus would be used to temporarily finance projects when sufficient reserve funds are not available in a particular year.

The resulting change from 2018 in municipal levy support for capital infrastructure spending is **\$171,133**.

Table 1 – 2019 Operating Budget Summary

Expenditures	2017 Actual	2018 Budget	2018 Actual	2019 Budget	2018-19 Variance
Corporate Services					
Administration	\$519,505	\$484,202	\$496,205	\$654,536	\$170,335
Communications	\$90,766	\$91,980	\$95,797	\$94,698	\$2,718
Operations	<u>\$18,664</u>	<u>\$50,034</u>	<u>\$26,029</u>	<u>\$34,780</u>	<u>(\$15,254)</u>
Sub-total	\$628,935	\$626,215	\$618,031	\$784,015	\$157,799
Watershed Management					
Information Management	\$201,650	\$202,317	\$191,076	\$209,346	\$7,029
Watershed Planning	\$338,490	\$330,248	\$316,661	\$351,473	\$21,225
Watershed Monitoring	\$144,394	\$181,792	\$221,896	\$294,580	\$112,788
Studies	\$100,240	\$136,754	\$130,074	\$137,352	\$598
Plan Review	\$223,253	\$228,681	\$207,772	\$230,728	\$2,047
Section 28 Regulations	<u>\$326,461</u>	<u>\$317,118</u>	<u>\$348,410</u>	<u>\$326,983</u>	<u>\$9,864</u>
Sub-total	\$1,334,487	\$1,396,909	\$1,415,889	\$1,542,461	\$153,552
Flood and Erosion Control					
Flood Forecasting & Warning	\$221,304	\$235,937	\$222,646	\$233,873	(\$2,063)
O&M Flood Control Structures	\$310,704	\$322,004	\$309,328	\$330,921	\$8,917
Prev. Maintenance of FCS	<u>\$111,586</u>	<u>\$134,227</u>	<u>\$122,771</u>	<u>\$137,457</u>	<u>\$3,230</u>
Sub-total	\$643,593	\$692,167	\$654,745	\$702,251	\$10,084
Conservation Services					
Conservation Services	\$52,944	\$68,802	\$83,664	\$237,043	\$168,242
Land Management	\$324,617	\$310,707	\$299,755	\$313,260	\$2,553
Conservation Education	\$96,454	\$106,257	\$103,886	\$110,708	\$4,451
Visitor Services	<u>\$139,056</u>	<u>\$147,058</u>	<u>\$132,087</u>	<u>\$147,983</u>	<u>\$925</u>
Sub-total	\$613,071	\$632,823	\$619,392	\$808,994	\$176,171
Total Operating	\$3,220,086	\$3,348,115	\$3,308,057	\$3,845,721	\$497,606
Revenues	2017 Actual	2018 Budget	2018 Actual	2019 Budget	2018-19 Variance
Municipal Levy					
- General benefiting	\$2,381,259	\$2,442,682	\$2,430,442	\$2,500,845	\$58,163
- Special benefiting	\$0	\$0	\$0	\$0	\$0
Sub-total	\$2,381,259	\$2,442,682	\$2,430,442	\$2,500,845	\$58,163
Provincial Transfer Payment	\$248,792	\$248,792	\$248,792	\$248,792	(\$0)
Special Grants	\$24,685	\$30,305	\$19,216	\$28,909	(\$1,396)
User Fees & Contract Revenue	\$411,761	\$398,000	\$428,074	\$416,000	\$18,000
Special Reserves	\$0	\$15,000	\$0	\$136,228	\$121,228
Other	\$153,590	\$213,336	\$247,013	\$514,947	\$301,611
Total Revenues	\$3,220,086	\$3,348,115	\$3,373,537	\$3,845,721	\$497,606
Surplus/(Deficit)	\$0	\$0	\$65,480	\$0	\$0

Table 2 – 2019 Capital Budget Summary

Water & Erosion Control Infrastructure				
Expenditures	2017 Actual	2018 Budget	2018 Actual	2019 Budget
Water & Erosion Control Infrastructure	\$83,943	\$104,567	\$125,542	\$330,643
Revenues	2017 Actual	2018 Budget	2018 Actual	2019 Budget
WECI Grant	\$27,578	\$38,700	\$44,942	\$165,321
General benefiting levy	\$56,365	\$65,867	\$80,600	\$165,321
Special benefiting levy	\$0	\$0	\$0	\$0
Deferred Revenue - WECI	\$0	\$0	\$0	\$0
Water Control Structure Reserve	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0
Total Revenue	\$83,943	\$104,567	\$125,542	\$330,643

Administration Office				
Expenditures	2011-17 Actual	2018 Budget	2018 Actual	2019 Budget
Administration Office	\$6,316,326	\$277,005	\$277,005	\$277,005
Revenues	2011-17 Actual	2018 Budget	2018 Actual	2019 Budget
Provincial Transfer Payment	\$0	\$0	\$0	\$0
General benefiting levy	\$287,593	\$277,005	\$277,005	\$277,005
Special benefiting levy	\$0	\$0	\$0	\$0
Special Reserves	\$0	\$0	\$0	\$0
Other	\$6,028,733	\$0	\$0	\$0
Total Revenue	\$6,316,326	\$277,005	\$277,005	\$277,005

Conservation Areas Development				
Expenditures	2017 Actual	2018 Budget	2018 Actual	2019 Budget
Conservation Areas	\$16,635	\$18,000	\$11,467	\$18,000
Revenues	2017 Actual	2018 Budget	2018 Actual	2019 Budget
General benefiting levy	\$13,446	\$13,000	\$10,507	\$13,000
MVCF - Trails (DR)	\$0	\$0	\$0	\$0
Other	\$3,390	\$5,000	\$960	\$5,000
Total Revenues	\$16,835	\$18,000	\$11,467	\$18,000

Table 3a – 2019 Administration and Maintenance Levy (General Benefiting)

Municipality	2018 Apportionment %	2018 Levy	2019 Apportionment %	2019 Levy	Variance
North Frontenac Tp	0.9815	\$23,975	0.9648	\$24,128	\$153
Central Frontenac Tp	0.4509	\$11,014	0.4447	\$11,121	\$107
Tay Valley Tp	0.6696	\$16,356	0.6620	\$16,556	\$199
Beckwith Tp	0.6337	\$15,479	0.6476	\$16,195	\$716
Carleton Place	2.3539	\$57,498	2.3766	\$59,435	\$1,937
Drummond/North Elm Tp	0.5059	\$12,358	0.4990	\$12,479	\$122
Lanark Highlands Tp	1.1346	\$27,715	1.1324	\$28,320	\$605
Mississippi Mills	2.6146	\$63,866	2.6379	\$65,970	\$2,103
Addington Highlands Tp	0.1630	\$3,982	0.1611	\$4,029	\$47
Ottawa	90.4559	\$2,209,550	90.4380	\$2,261,714	\$52,164
Greater Madawaska Tp	0.0363	\$887	0.0359	\$898	\$11
Total	100	\$2,442,680	100	\$2,500,845	\$58,165

Table 3b – 2019 Capital Project Levy (General Benefiting)

Municipality	2018 Apportionment %	2018 Levy	2019 Apportionment %	2019 Levy	Variance
North Frontenac Tp	0.9815	\$3,493	0.9648	\$5,085	\$1,592
Central Frontenac Tp	0.4509	\$1,605	0.4447	\$2,344	\$739
Tay Valley Tp	0.6696	\$2,383	0.6620	\$3,489	\$1,106
Beckwith Tp	0.6337	\$2,255	0.6476	\$3,413	\$1,158
Carleton Place	2.3539	\$8,377	2.3766	\$12,525	\$4,148
Drummond/North Elm Tp	0.5059	\$1,800	0.4990	\$2,630	\$829
Lanark Highlands Tp	1.1346	\$4,038	1.1324	\$5,968	\$1,930
Mississippi Mills	2.6146	\$9,305	2.6379	\$13,902	\$4,597
Addington Highlands Tp	0.1630	\$580	0.1611	\$849	\$269
Ottawa	90.4559	\$321,907	90.4380	\$476,613	\$154,706
Greater Madawaska Tp	0.0363	\$129	0.0359	\$189	\$60
Total	100	\$355,872	100	\$527,005	\$171,133

Table 3c – 2019 Total Municipal Levy (General Benefiting)

Municipality	2018 Apportionment %	2018 Levy	2019 Apportionment %	2019 Levy	Variance
North Frontenac Tp	0.9815	\$27,468	0.9648	\$29,213	\$1,745
Central Frontenac Tp	0.4509	\$12,619	0.4447	\$13,465	\$846
Tay Valley Tp	0.6696	\$18,739	0.6620	\$20,044	\$1,305
Beckwith Tp	0.6337	\$17,734	0.6476	\$19,608	\$1,874
Carleton Place	2.3539	\$65,875	2.3766	\$71,960	\$6,085
Drummond/North Elm Tp	0.5059	\$14,158	0.4990	\$15,109	\$951
Lanark Highlands Tp	1.1346	\$31,752	1.1324	\$34,287	\$2,535
Mississippi Mills	2.6146	\$73,171	2.6379	\$79,872	\$6,701
Addington Highlands Tp	0.1630	\$4,562	0.1611	\$4,878	\$316
Ottawa	90.4559	\$2,531,457	90.4380	\$2,738,327	\$206,870
Greater Madawaska Tp	0.0363	\$1,016	0.0359	\$1,087	\$71
Total	100	\$2,798,551	100	\$3,027,850	\$229,299

<p>Corporate Services (administration/operations/communications)</p> <p>Program Objectives</p> <ul style="list-style-type: none">• Provide financial management and accounting of MVCA expenditures and revenues• Manage MVCA human resources including staff training to achieve MVCA resource management objectives• Maintain effective relationships with government, Conservation Authorities and other partners and stakeholders• Maintain commitment to Occupational Health & Safety• Provide cost effective administrative support and office accommodations• Maintain effective support and dialogue with the Board of Directors and committees• Manage MVCA vehicle and field equipment resources• Maintain all vehicles and equipment in safe and sound condition• Secure and disperse equipment and supplies to staff• Operate workshop facilities• Recover operating and maintenance costs through usage charges• Raise awareness of MVCA programs and provide effective communications support to all program areas
<p>2018 Accomplishments</p> <ul style="list-style-type: none">• Continued to provide financial and human resource management• Recruited new General Manager to commence duties in February 2019• Continued active participation in Conservation Ontario• Provided training opportunities for Board of Directors through the Latornell Conservation Symposium• Attended Conservation Ontario Council meetings and Board of Directors meetings• Continued to update electronic document management system• Continued development of a comprehensive Asset Management program• Acquired vehicle and equipment replacements• Coordinated MVCA 50th Anniversary recognition• Prepared and distributed Annual Report and quarterly newsletter as well as a number of media releases including engagement and outreach using social media.
<p>2019 Work Plan</p> <ul style="list-style-type: none">• Continue enhancements to MVCA Health and Safety Program• Continue implementation of electronic document management system• Enhance partnership opportunities with private business and environmental organizations to promote stewardship efforts• Complete Asset Management Program report and initiate implementation• Attend Conservation Ontario Council meetings and provide opportunities for Board of Directors training at the A.D. Latornell Conservation Symposium• Undertake fund raising initiatives• Facilitate Asset Management training in collaboration with eastern Ontario Conservation Authorities and FCM

Watershed Planning**Program Objectives**

- Undertake watershed level planning studies and policy development to manage and conserve watershed resources
- Develop program implementation plans to direct stewardship efforts
- Participate and provide advice on municipally led sub-watershed studies
- Review and advise on comprehensive municipal planning documents
- Provide advice to federal/provincial approval authorities for large scale infrastructure projects

2018 Accomplishments

- Completed inventory of Cody Creek and Poole Creek using City Stream Watch Protocol
- Conducted review and provided advice on Official Plan amendments and Environmental Assessments
- Completed additional flood line and depth maps for Poole Creek and the Ottawa River
- Completed assessment of local climate change impacts associated with water management infrastructure and waterpower facilities to identify potential adaptation response measures
- Assisted in the implementation of the Mississippi Lake , Kashwakamak Lake and Malcolm/Ardoch Lake Plans
- Collaborated in delivering a Septic System Awareness Workshop and a Lake Plan Workshop
- Continued work on the Mississippi River Watershed Plan including hydrologic and hydraulic analysis.
- Continued Mississippi Lake and Tributaries Water Quality study in collaboration with Queen's University and the Mississippi Lakes Association.
- Developed a watershed wide Algae Monitoring/Reporting tool for release in 2019.
- Assisted in organization of Lake Links Workshop and participated in the Lake Networking Group
- Initiated flood plain mapping studies for Harwood Creek and an update for the lower Mississippi River watershed.
- Participated in the Ottawa River Watershed Study

2019 Work Plan

- Coordinate review and monitoring of Carp River Restoration Project
- Continue development of the Mississippi River Watershed Plan
- Undertake a climate change vulnerability assessment of the Carleton Place municipal drinking water intake
- Assist in implementation of Lake Plans for Mississippi Lake, Kashwakamak Lake, Malcolm /Ardoch Lakes
- Initiate new flood hazard mapping on an additional tributary to Constance Lake
- Complete update to flood hazard mapping for the lower Mississippi River watershed and new mapping for Harwood Creek
- Launch new watershed wide Algae Monitoring/Reporting tool.
- Initiate new flood hazard mapping on Harwood Creek
- Initiate update to flood hazard mapping for the lower Mississippi River watershed
- Initiate additional floodrisk analyses and depth mapping for previously completed mapping
- Complete assessment of Carp Creek A, Carp Creek B , Carp Creek C and Constance Creek using City Stream Watch Protocol
- Implement Carp River Action Plan in cooperation with Friends of the Carp
- Continue collaboration with the Ottawa River basin Conservation Authorities and Ottawa Riverkeeper on the Ottawa River Watershed Study

Watershed Monitoring**Program Objectives**

- Monitor nutrient enrichment of recreational lakes and rivers.
- Assess trophic status and assimilative capacity of recreational lakes.
- Raise awareness of lake sensitivity to nutrient enrichment and encourage stewardship efforts.
- Conduct comprehensive water quality monitoring in accordance with the Mississippi Valley Conservation Environmental Monitoring Strategy.

2018 Accomplishments

- Published the 2017 Integrated Monitoring Report
- Published the 2018 Watershed Report Card
- MVCA completed nutrient monitoring on 12 Watershed Watch lakes including Kashwakamak, Mississippi, Mosque, Big Gull, Clayton, Taylor, Ardoch, Pine, McCauseland and Fawn Lakes
- The Invasive Species Hit Squad student attended lake association meetings as part of education and outreach. Sightings of aquatic and terrestrial invasive species within the MVCA jurisdiction were noted and reported to OFAH.
- 8 groundwater monitoring wells were pumped for water samples (only 5 wells have pumps) under the Provincial Groundwater Monitoring Network. Year-long monitoring of 9 wells
- 16 surface water monitoring stations were sampled under the Provincial Water Quality Monitoring Program
- 15 surface water quality sites were adopted from the City of Ottawa
- Sampled 27 sites for fish communities and 12 sites for benthic communities
- Completed assessment of Upper Mississippi and Indian River Subwatersheds Completed City Stream Watch (CSW) on 2 systems, Cody Creek and Poole Creek
- Completed temperature monitoring on the 2 CSW systems (5 sites) as well loggers were launched at 15 stream and in 5 lakes (Canonto, Sharbot, Dalhousie, Kashwakamak, and Mississippi) for a total of 25 loggers deployed.
- Completed Headwater Drainage feature inventory on 22 sites in the Cody Creek, Poole Creek and Carp River watersheds.
- Partnered with Silver Lake and Area Environmental Association and Carleton University to study chloride levels in Silver Lake and potential impacts on biota

2019 Work Plan

- Publish the 2018 Integrated Monitoring Report based on data collected from Watershed Watch and stream surveys.
- Publish 2018 City Stream Watch reports for Cody Creek and Poole Creek
- Continue water quality monitoring of 12 lakes through the Watershed Watch program
- Continue monitoring of 20 water quality monitoring stations under the Provincial Water Quality Monitoring Network
- Continue monitoring of 9 groundwater monitoring stations under the Provincial Groundwater Monitoring Program, pumping 5 wells (as directed by MOECC)
- Continue benthic, fish and stream assessments throughout the watershed
- Continue City Stream Watch Program in Carp A, B, C and Constance Creek
- Continue conducting Headwater Drainage feature inventories
- Maintain water temperature monitoring on 5 lakes and 20 stream sites
- Host a spring Lake Stewards update meeting
- Engage local groups to expand communication of citizen science efforts

Information Management
Program Objectives <ul style="list-style-type: none">• The delivery of an efficient and effective information system and services based on a single focal point for all information services and organized to ensure the satisfaction of all user needs• Improved workflow for the acquisition and dissemination of information that will support the needs of MVCA's programs, staff and managers who deal with our clients, as well as fulfill our roles and responsibilities to our funding partners and stake holders• Provide IT support to all programs• To enhance the information management system; including file and database management, internet mapping capability, upgraded hardware and software and associated training
2018 Accomplishments <ul style="list-style-type: none">• Comprehensive review and edit to the watershed NHS features - stream network, wetlands, waterbodies and forest layers• Established a GIS server to facilitate a central geographic database and online mapping capabilities• Launched Sharepoint for collaboration of office resources• Created the environment for the Authority's document management system• Supported the update of Huntley and Constance Creek floodplain mapping• Bathymetric Study of the Lower Mississippi River for Flood Risk Analysis• GIS analysis for Watershed Report Card• Increased network security due to ransomware vulnerability• Update all computer to Windows 10 operating systems
2019 Work Plan <ul style="list-style-type: none">• Complete large scale updates to the watershed NHS features.• Complete a comprehensive land use coverage project that conforms with local stake holders efforts• Implement document management through other departments• Create Data Dictionary for enterprise GIS data• Support the Watershed Plan• Support flood risk mapping updates on priority watersheds in City of Ottawa (Harwood Creek), Mississippi and Indian Rivers and Clayton Taylor Lakes• Enhance views and information to the public and stakeholders - GIS Mapping Portal• Support source water protection planning activities

Planning Advisory and Regulations

Program Objectives

- Achieve MVCA watershed management objectives through the provision of advice to municipal planning authorities on land use and infrastructure planning matters
- Fulfill obligations for delegated responsibilities under the Planning act to address natural hazards issues
- Provide advice to municipal planning authorities on natural heritage issues regarding site-specific applications through cost recovery
- Minimize the risk to life, property damage and social disruption due to flooding, erosion and slope failure
- Prevent pollution/degradation of aquifers, rivers and other water bodies
- Ensure the wise use of regulated lands

2018 Accomplishments

- Completed 126 compliance inspections
- Reviewed and commented on approximately 200 planning applications with respect to natural hazard and natural heritage issues including property clearances and septic reviews
- Processed 140 applications for permission to undertake work subject to Ontario Regulation 153/06
- Investigated 33 violations of Ontario Regulation 153/06 resulting in 1 charge being laid
- Responded to public inquiries regarding potential development impacts and beneficial management practices
- Delivered the Tay Valley Septic Inspection/Re-Inspection program in partnership with the Ottawa Septic System Office (RVCA)
- Delivered the North Frontenac, Central Frontenac and Rideau Lakes Septic Re-Inspection programs in partnership with the Ottawa Septic System Office (RVCA)

2019 Work Plan

- Continue providing a streamlined service for commenting and advice on development applications and review projects subject to Ontario Regulation 153/06
- Continue responding to public inquiries regarding potential development impacts and beneficial management practices
- Provide public access to information regarding natural hazard and natural heritage issues through the MVC web-site
- Implement policies related to unevaluated wetlands
- Continue delivery of the Tay Valley Septic Inspection/Re-inspection program in partnership with the Ottawa Septic System Office (RVCA)
- Continue delivery of the North Frontenac, Central Frontenac and Rideau Lakes Septic Re-Inspection programs in partnership with the Ottawa Septic System Office (RVCA)
- Conduct a review and update to Regulation 153/06 policies.

Flood Forecasting and Warning / Low Water Response

Program Objectives

- Provide early warning of significant flood events to watershed municipalities
- Advise operators/owners of significant dams on watershed conditions and forecasts
- Monitor watershed conditions and assess flood potential
- Operate emergency communications centre during Class 3 or greater flood events
- Assist municipalities in emergency response preparedness planning and exercises
- Update watershed modeling capabilities
- Improve meteorological data access
- Develop backup support in forecasting and warning capabilities
- Coordinate local drought response efforts

2018 Accomplishments

- Monitored snow cover water content at 16 sites bi-monthly (added High Falls snow course through contract with OPG)
- Monitored 10 streamflow, 15 precipitation and 17 hourly water level gauges (added Widow Lake) throughout the watershed including 32 manual water level gauges and 6 volunteer precipitation recorders
- Continued with CoCoRaHS project to develop a volunteer precipitation monitoring network that inputs their data directly to a web site covering north America.
- Continuously monitored weather conditions and issued 3 watershed conditions – Low water bulletins, 3 watershed condition – ice safety bulletins, 4 watershed conditions – High water safety, 3 Flood Watch bulletins and 5 Flood Warning statements
- Maintained a web-based water level and stream flow reporting system and enhanced existing Daily Planning cycle capabilities
- Continued to collaborate with the Eastern Ontario WISKI HUB (10 CA's in eastern Ontario) providing improved access and analytical capability to water resource data
- Developed and calibrated forecast models (HEC-HMS) for six locations.
- Coupled forecast models with reservoir simulation model HEC-ResSim

2019 Work Plan

- Develop automated data input tools / templates for use with other departments and other C.A.'s
- Monitor weather, stream flow and water level conditions on a daily basis and report on conditions through MVCA web-site, develop enhancements to web site to be more user friendly and interactive
- Continue development of a drought response emergency preparedness manual
- Finish installing an all-weather station at the MVCA office
- Install automated gauges at Constance Bay, Ottawa River at Galetta, Pine Lake Dam, Little Marble Lake, Ardoch Bridge and Buckshot Lake
- Undertaking pilot program with MNRF regarding soil moisture data used as a parameter for Low Water Response program
- Undertake pilot program with MNRF regarding soil moisture data used as a parameter for Low Water Response program
- Continue to investigate enhancements to flood forecast procedures
- Conduct repairs to stream gauge shelters / equipment as required
- Continue compiling water quality / benthic data into the WISKI data collection platform
- Continue to integrate KIWIS module of WISKI with MVC website to allow automatic updates of DPC

Operation and Maintenance of Water and Erosion Control Structures

Program Objectives

- Operate MVCA flood and erosion control structures in accordance with established operating policies and procedures
- Update operating policies and procedures as required
- Provide an integrated approach to stream flow regulation and reservoir management in cooperation with other watershed dam operators
- Undertake routine maintenance of MVC structures to provide safe and efficient operation
- Develop a Dam Safety Program and associated policies for MVCA structures
- Develop backup support for operations planning
- Perform annual inspections of all MVCA structures to document maintenance issues
- Undertake maintenance of MVCA flood and erosion control structures to maintain long term integrity and ensure continued safe operation of facilities

2018 Accomplishments

- Continued to operate and maintain 18 water and erosion control structures including annual spring and fall inspections
- Average number of operations with approximately 290 trips to operate the structures
- Conducted day-to-day operations of the Crotch Lake Dam and the High Falls G.S. under contract with OPG
- Conducted day-to-day operations of Mosque, Summit, Palmerston, Canonto and Malcolm Lake dams under contract with MNRF Bancroft
- Liaised with other watershed dam operators on an on-going basis
- Significant minor maintenance project list completed, highlighted by extensive brushing and debris removal at all dams, replacing cable connections with heavy duty chain in boom at Canonto Lake Dam, repaired wooden walkway to Summit Lake dam, repaired rust spots at all gantry locations.

2019 Work Plan

- Continue to operate and maintain 18 water and erosion control structures including annual inspections
- Conduct day-to-day operations of the Crotch Lake Dam and the High Falls G.S. under contract with OPG
- Conduct day-to-day operations of Mosque, Summit, Palmerston, Canonto and Malcolm Lake dams under contract with MNRF Bancroft
- Undertake spring and fall dam inspections at all structures
- Liaise with other watershed dam operators on an on-going basis
- Annual review of the Dam Operator Safety guidelines for all MVCA owned and operated dams
- Update MVCA website with full description of dams, operating plans and rule curves
- Complete the Class EA for Shabomeka Lake Dam rehabilitation
- Installation of the overhead gantry system at Mazinaw Lake Dam
- Undertake the preferred retrofit option to replace deck slabs and railings at Widow Lake dam

Conservation Services
Program Objectives <ul style="list-style-type: none">• Promote implementation of Beneficial Management Practices on private land• Achieve watershed management objectives through targeted financial incentives to private landowners
2018 Accomplishments <ul style="list-style-type: none">• Delivered the City of Ottawa Rural Clean Water Grants Program within the Mississippi Valley.• MVCA continued to implement the five-year MOU with the County of Lanark to provide forest management services on County Forests, providing a range of professional forest management expertise including administering selective timber harvest, routine property inspections and maintaining Forest Stewardship Council Certification.• Continued with Shoreline Naturalization planting program on Mississippi watershed, 10 properties with over 817 shoreline plants planted. Monitored previous plantings.• Coordinated with Center for Sustainable Watersheds to plant 3 properties• Participated in the Ottawa Green Acres program and RVCA/Trees Ontario tree planting program; with 121,000 trees planted in the Mississippi Valley watershed• Assisted MVCA staff with Forestry related issues.• Responded to numerous public calls and inquiries.
2019 Work Plan <ul style="list-style-type: none">• Deliver City of Ottawa Rural Clean Water Program in MVCA area• Coordinate with RVCA tree planting program• Establish contract Stewardship Technician position to develop and delivery landowner stewardship programs• Provide Forest Management Services on Lanark County Community Forest.• Coordinate habitat improvements and Low Impact Development measures along Upper Poole Creek• Continue to deliver Shoreline Naturalization program throughout the watershed in partnership with lake associations, private landowners and corporations

Land Management
Program Objectives <ul style="list-style-type: none">• Maintain MVC properties and facilities including security and risk management• Pay property taxes and utility costs
2018 Accomplishments <ul style="list-style-type: none">• Continued work on new nature trail at MVC Centre• Operated and maintained Mississippi Valley Conservation Centre• Complete routine maintenance of MVC Conservation Areas and facilities as required• Continue hazard tree abatement program at all CA's• Continued with Trail surface improvements at MOK and MICA• Successfully concluded legal action on K&P trail
2019 Work Plan <ul style="list-style-type: none">• Operate and maintain Mississippi Valley Conservation Centre• Continue with tree thinning at Purdon.• Continue hazard tree abatement program at all CA's• Complete routine maintenance of MVC Conservation Areas and facilities as required• Finish phase 2 of new nature trail at Mississippi Valley Conservation Centre• Initiate building condition reports on Stone buildings at MOK and develop a repointing strategy/plan.• Finalize implementation plan and costing for the items identified in the new MOK Master Plan• Complete bridge deck replacement at MICA• Continue participation in LCMTC meeting concerning management of the K&P Trail Conservation Area.• Continue with stone dusting trail surface and brushing at MICA and MOK• Continue with new Site Signage at MOK.• Replace picnic tables at MICA and Purdon• Continue MOK Museum interior upgrades.• Finalize design of new washroom facilities at MOK• Initiate asset management condition reports for buildings and structures at CA's

Conservation Awareness
Program Objectives <ul style="list-style-type: none">• Foster an appreciation for the natural environment in the general public through the provision of day use Conservation Areas, interpretive programs, and public outreach.• Promote the values and life of Drs. R. Tait McKenzie and James Naismith through the operation and maintenance of the grist mill museum and artifacts.• Foster an appreciation for the natural environment in youth through curriculum-based outdoor education programs.• Promote environmental stewardship and conservation through outdoor education, day camps and community outreach initiatives.• Educate elementary students about the dangers of playing near fast moving, cold water in the spring (Spring Water Awareness Program - SWAP).• Encourage use of conservation areas from an environmental and healthy living perspective.
2018 Accomplishments <ul style="list-style-type: none">• Close to 9,000 visitors to the museum with 1150 attending special events and weddings held on site. Approximately 16,000 visitors to the conservation area in 2018.• Transfer of Assets from the Naismith Basketball Foundation to the MVCA.• Participated in Beckwith's Harvest Festival.• 12th annual Kintail Country Christmas – one of the most successful years to date, both in attendance and revenue.• Volunteers continue to accession and digitize both McKenzie's and Naismith's collections.• Delivered curriculum-based outdoor education programs to more than 2000 students.• Provided conservation-based nature exploration summer camps for 6 weeks at maximum capacity• Delivered the SWAP safety message to more than 3000 students in 13 schools.• Provided MVCF transportation grants to 6 schools for winter outdoor education field trips.• Continued Night Sky Conservation spring programming.• Participated in a working group with the River Institute and various community groups to revitalize the Children's Water Festival at the Mill of Kintail.• Participated in the Carl River Learning Classroom project development.
2019 Work Plan <ul style="list-style-type: none">• Continue provision of curriculum-based outdoor education programs with a focus to increase fall programming and programming outside of the Mill of Kintail Conservation Area.• Continue to offer MVCF bus grant program to encourage winter field trip bookings.• Continue provision of the Spring Water Awareness Program.• Work with partners to help develop and raise public awareness about app for the Carp River Restoration Area.• Continue to offer Wildlife Watchers Day Camp for 6 weeks in July/August.• Continue operation of Mill of Kintail Conservation Area and Museum programming.• Conduct Children's Water Festival at the Mill of Kintail Conservation Area.• Continue digitizing and accessioning both collections.• Increase awareness of "Brothers of the Wind."• Continue attending Mississippi Mills Museums Group meetings facilitated by Mississippi Mills

Appendix A

Program Budget Details

Administration

Objectives:

- provide financial management and accounting of MVCA expenditures and revenues
- manage MVC human resources to achieve MVCA resource management objectives
- maintain relationships with government, Conservation Authorities and other partners
- provide cost effective administrative support and office accommodations
- maintain support and dialogue with the Board of Directors and committees

Strategic Priorities:

- continue to improve backup support capabilities in critical administrative functions
- improve integration of budget, accounting and cost control systems

Budget Highlights:

- continue to provide administrative and financial support for all program areas
- continue to provide support for Board of Directors
- Undertake Asset Management training in cooperation with eastern Ontario Conservation Authorities

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (3.5 FTE)	320,637	328,402	326,063	2,339	326,063	415,142
Staff Mileage/Expenses/Prof Development	8,448	8,000	8,486	(486)	8,486	8,500
Member Expenses & Allowances	49,812	42,000	36,895	5,105	36,895	42,000
Mat/Sup/Equip/GenExp/BankChg/Postage/Courier	31,982	35,000	36,919	(1,919)	36,919	35,000
Insurance/Telephone	31,803	32,000	30,617	1,383	30,617	32,000
Audit/Legal Fees	10,516	12,000	10,320	1,680	10,320	12,000
Conservation Ontario Levy	25,204	26,000	25,757	243	25,757	26,000
OH&S-Wages/Ben/Exp/Other Costs (.1 FTE)	13,371	12,000	12,635	(635)	12,635	13,000
Consulting Fees/Human Resources	2,518	2,000	24,886	(22,886)	24,886	10,000
Consulting Fees/Asset Management Plan/FCM AM	15,368	5,000	0	5,000	0	79,094
Administrative Charges OMFCS	(18,200)	(18,200)	(18,200)	0	(18,200)	(18,200)
Vacation Exp/Retiree Ben Exp	28,047	0	1,826	(1,826)	1,826	0
Total	519,505	484,202	496,204	(12,002)	496,204	654,536
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	488,223	460,702	459,722	980	459,722	553,242
Special Levy	0	0	0	0	0	0
Other - Interest	27,229	20,000	33,305	(13,305)	33,305	20,000
Other - Rental Income	675	500	125	375	125	0
Other - FCM AM Project/Participants	0	0	0	0	0	79,094
Other - Miscellaneous	3,378	3,000	3,052	(52)	3,052	2,200
Total	519,505	484,202	496,204	(12,002)	496,204	654,536

Communications

Objectives:

- promote a positive image of MVCA
- enhance communication and collaboration among Municipalities, partners, public and media to foster partnerships, and to engage people and organizations
- increase communications, including information on events, MVCA activities and available services
- produce high-quality communication materials

Strategic Priorities:

- promote MVCA programs, services and projects to member Municipalities, residents, partner organizations, and other stakeholders
- ensure consistent use of corporate branding and identity in MVCA communication products
- develops and distributes MVCA media and communications products, maintains MVCA's website and social media outlets, promotes MVCA at local fairs and events and supports funding applications
- provides support to all MVCA departments

Budget Highlights:

- training and services for communications/ professional development
- contracted services such as graphic design and translation
- supplies and materials such as business cards, name plates and MVCA promotional items for staff and board members
- continue to share administrative assistant position with Administration to seek funding and assist with communications initiatives

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (.9 FTE)	70,243	71,480	72,566	(1,086)	72,566	74,198
Mileage/Expenses/Professional Development	6,683	6,000	6,647	(647)	6,647	7,000
Printing	5,435	5,000	4,948	52	4,948	5,000
Materials/Supplies/Equipment/Gen Expenses	3,687	4,500	6,007	(1,507)	6,007	6,500
Advertising/Publicity	4,718	5,000	5,629	(629)	5,629	2,000
Total	90,766	91,980	95,797	(3,817)	95,797	94,698
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	90,766	91,980	95,797	(3,817)	95,797	94,698
Special Levy	0	0	0	0	0	0
Total	90,766	91,980	95,797	(3,817)	95,797	94,698

Operations

Objectives:

- manage MVCA vehicle and field equipment resources
- maintain all vehicles and equipment in safe and sound condition
- secure and disperse equipment and supplies to staff
- operate workshop facilities
- recover operating and maintenance costs through usage charges

Budget Highlights:

- replace vehicles and equipment as part of regular fleet maintenance

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (.1 FTE)	10,319	10,534	10,561	(27)	10,561	10,780
Mileage/Expenses/Prof Development	3,532	3,600	3,128	472	3,128	3,600
Vehicle/Equipment Purchase	720	3,000	1,354	1,646	1,354	3,000
Vehicles/Equipment Lease	0	0	0	0	0	0
Materials/Supplies/Fuel/Maintenance	52,292	50,000	49,523	477	49,523	50,000
Insurance/Utilities	8,976	10,300	8,726	1,574	8,726	10,300
General Expenses	656	1,600	1,029	571	1,029	1,600
Vehicle/Equipment Charges	(100,741)	(110,000)	(97,788)	(12,212)	(97,788)	(100,000)
Capital Assets:						
Vehicles	28,242	65,000	25,463	39,537	25,463	35,500
Equipment	14,669	16,000	24,033	(8,033)	24,033	20,000
Total	18,664	50,034	26,029	24,004	26,029	34,780
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	4,250	10,549	26,029	(15,481)	26,029	16,780
Special Levy	0	0	0	0	0	0
Other - Sale of ATV Tracks/Gain on Disposal Veh/Eq	14,414	24,485	0	24,485	0	0
Special Reserves - Vehicles & Equipment	0	15,000	0	15,000	0	18,000
Total	18,664	50,034	26,029	24,004	26,029	34,780

Information Management

Objectives:

- maintain network systems
- delivery of the enterprise Geographical Information System (GIS)
- provide IT support to all staff

Strategic Priorities:

- Development of GIS/IM strategic plan (2018-2023)
- ensure the reliability of existing investments and procedures in Information Management
- build on existing infrastructure: network, GIS, procedures and personnel skills
- add value to existing corporate strategic and operational decision making
- build the capacity to improve critical datasets that support and advance key business functions
- Implement open data strategy of MVCA owned spatial assets

Budget Highlights:

- DRAPE 2019 ortho-imagery
- move email database to MS Exchange 365
- maintain computer and network assets
- support flood risk mapping update project and generic regulation geotechnical line updates
- advance document management system (CADIMS) into other departments

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.5 FTE)	127,606	120,917	122,098	(1,181)	122,098	126,046
Mileage/Expenses/Professional Development	1,588	3,000	2,385	615	2,385	3,000
Materials/Supplies/Gen Expenses	3,430	3,200	3,645	(445)	3,645	3,600
Equipment Purchase, Repair & Mtce	4,329	4,000	1,793	2,207	1,793	4,000
Software/Maintenance/IT Support	34,326	35,000	41,873	(6,873)	41,873	36,500
High Speed Internet Access	3,133	3,200	3,395	(195)	3,395	3,200
Data Acquisition - General	0	8,000	0	8,000	0	8,000
Electronic Document Management	10,000	10,000	10,000	0	10,000	10,000
Capital Assets:						
Computer Hardware	17,237	15,000	5,888	9,112	5,888	15,000
Total	201,650	202,317	191,077	11,240	191,077	209,346
Revenues	2017 Actual	2017877 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	201,650	202,317	190,441	11,876	190,441	209,346
Special Levy	0	0	0	0	0	0
Special Reserves - IT Reserve	0	0	0	0	0	0
Other - CA Maps Program/Tech Fee for Info Products	0	0	636	(636)	636	0
Total	201,650	202,317	191,077	11,240	191,077	209,346

Watershed Planning

Objectives:

- undertake watershed level planning studies and policy development to conserve watershed resources
- develop program implementation plans to direct conservation efforts
- provide advice and guidance to public and municipalities on environmental issues
- produce Watershed Report Card 2018
- implement objectives of monitoring strategy

Strategic Priorities:

- develop comprehensive watershed information database
- develop watershed management strategy to meet watershed planning objectives
- develop Watershed Plan and Characterization Reports

Budget Highlights:

- continue work with Mississippi River Watershed Plan
- complete Nutrient Modelling on Mississippi Lake
- assist in implementation of Lake Management Plans for Mississippi Lake, Kashwakamak Lake and Malcolm/Ardoch
- participate in municipal Official Plan/comprehensive Zoning reviews
- coordinate public forums to address environmental concerns
- work with partners such as City of Ottawa and lake associations to implement steward initiatives
- undertake a stream morphology study of the Carp River in collaboration with the University of Ottawa

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (2.7 FTE)	283,836	278,664	267,336	11,328	267,336	298,473
Mileage/Expenses/Professional Development	6,122	10,000	7,258	2,742	7,258	9,000
Materials/Supplies/Gen Expenses	4,599	3,000	2,058	942	2,058	3,000
Carp Action Plan (.4 FTE)	24,160	15,584	26,757	(11,173)	26,757	0
Mississippi River Watershed Plan	19,772	23,000	13,252	9,748	13,252	13,000
Carp River Geomorphology Assessment	0	0	0	0	0	28,000
Total	338,490	330,248	316,661	13,587	316,661	351,473
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	314,330	323,348	307,212	16,135	307,212	287,973
Special Levy	0	0	0	0	0	0
Special Reserves - Glen Cairn Provincial Share	0	0	0	0	0	49,500
Other - Carp River Donations (DR)	24,160	6,900	7,449	(549)	7,449	0
Other - Mississippi Lake Association	0	0	0	0	0	0
Other - Mitacs	0	0	0	0	0	14,000
Other - Queens	0	0	2,000	(2,000)	2,000	0
Total	338,490	330,248	316,661	13,587	316,661	351,473

Watershed Monitoring

Objectives:
 - to implement a comprehensive, integrated and coordinated monitoring program that fulfills the watershed monitoring and reporting needs of MVCA while furthering the interests of municipal, provincial and federal partners
 - raise awareness of lake/watercourse sensitivity to nutrient enrichment and encourage stewardship efforts
 - implement objectives of monitoring strategy
 - support enhanced monitoring on Mississippi Lake

Strategic Priorities:
 - assess monitoring data to provide information to support the Plan Advisory and Regulations Programs, to track changes in the watershed due to the cumulative impact of development, climatic changes etc. and to enable reporting on watershed conditions
 - continued conversion of sampling data to digital format for use in GIS and web access and work in coordination with eastern conservation authorities.

Budget Highlights:
 - Continue water quality monitoring on lakes through the Watershed Watch program
 - Continue contact with Lake Stewards
 - Conduct benthic and fish community sampling in subwatersheds
 - Continue utilizing WISKI for storage of water chemistry data
 - Use WISKI for storage of biological monitoring data
 - Continue collecting stream temperature data on cold water streams
 - Continue monitoring sixteen surface water quality monitoring stations under the Provincial Water Quality Monitoring Network
 - Continue monitoring 9 ground water monitoring stations through the Provincial Ground Water Monitoring Network
 - Produce Integrated Monitoring Report for 2017 season
 - Sample 13 City of Ottawa Baseline sites

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (2.4 FTE)	116,986	156,792	162,453	(5,661)	162,453	218,270
Mileage/Expenses/Professional Development	17,405	15,000	16,853	(1,853)	16,853	18,000
Materials/Supplies/Equip/Gen Expenses	2,773	4,000	4,363	(363)	4,363	4,000
Lab Analysis	3,816	6,000	15,564	(9,564)	15,564	6,000
Carp River Planting KWOG	0	0	9,058	(9,058)	9,058	0
City of Ottawa Baseline Monitoring	0	0	13,605	(13,605)	13,605	27,720
Poole Creek Subwatershed Study	3,415	0	0	0	0	20,590
Capital Assets:						
Equipment	0	0	0	0	0	0
Total	144,394	181,792	221,896	(40,104)	221,896	294,580
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	141,894	181,792	170,574	11,217	170,574	170,762
Special Levy	0	0	0	0	0	0
Other - Carp River Planting KWOG	500	0	14,501	(14,501)	14,501	0
Other - MOECC - Ground Water Monitoring Project	2,000	0	0	0	0	0
Other - City of Ottawa - Baseline Monitoring	0	0	36,821	(36,821)	36,821	66,228
Other - Poole Creek Subwatershed Study	0	0	0	0	0	57,590
Total	144,394	181,792	221,896	(40,104)	221,896	294,580

Studies

Objectives:

- complete surveys and studies required to fulfil MVC watershed management objectives

Budget Highlights:

- continue the program to update Floodplain Mapping in the City of Ottawa
- complete update to floodplain maps for the lower Mississippi River watershed
- complete flood depth maps and lower return period floodline maps

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.4 FTE)	92,645	127,254	118,154	9,100	118,154	128,352
Mileage/Expenses/Professional Development	0	0	0	0	0	0
Ottawa Floodplain Mapping Update	1,587	1,500	1,879	(379)	1,879	3,000
Harwood Creek Floodplain Mapping Study	3,811	3,000	2,123	877	2,123	3,000
Lower Mississippi River Floodplain Mapping Study	2,198	5,000	7,918	(2,918)	7,918	3,000
Total	100,240	136,754	130,074	6,680	130,074	137,352
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	51,455	32,969	51,232	(18,263)	51,232	48,567
Special Levy	0	0	0	0	0	0
Other - City of Ottawa Contribution	48,785	48,785	48,785	0	48,785	48,785
Other - National Disaster Mitigation Program	0	55,000	30,057	24,943	30,057	40,000
Total	100,240	136,754	130,074	6,680	130,074	137,352

Plan Review

Objectives:

- achieve MVCA watershed management objectives through the provision of advice to municipal planning authorities on land use and infrastructure planning matters
- fulfil obligations for delegated responsibilities under the Planning Act to address natural hazards issues
- provide advice to municipal planning authorities on natural heritage issues regarding site-specific applications through cost recovery
- provide advice to federal/provincial approval authorities for large scale infrastructure projects
- review and provide input for comprehensive municipal planning documents (Official Plan Reviews)
- review and provide advice to municipalities in regard to Technical reviews (stormwater, hydrogeology, environmental impacts)

Budget Highlights:

- continue providing a streamlined service for commenting and advice on development applications and review projects subject to Ontario Regulation 153/06 - continue responding to public inquiries regarding potential development impacts and beneficial management practices
- provide public access to information regarding natural hazard and natural heritage issues through the MVCA web-site
- provide input to Lanark County Official Plan

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (2.2 FTE)	214,064	217,181	196,655	20,526	196,655	219,228
Mileage/Expenses/Professional Development	7,121	9,000	9,103	(103)	9,103	9,000
Materials/Supplies/Gen Expenses	2,067	2,500	2,014	486	2,014	2,500
Total	223,253	228,681	207,772	20,909	207,772	230,728
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	88,325	93,681	45,367	48,314	45,367	85,728
Special Levy	0	0	0	0	0	0
User Fees - Plan Review	134,928	135,000	162,405	(27,405)	162,405	145,000
Total	223,253	228,681	207,772	20,909	207,772	230,728

Regulations

Objectives:

- minimize the risk to life, property damage and social disruption due to flooding, erosion and slope failure
- prevent pollution/degradation of aquifers, rivers and other water bodies
- ensure the wise use of regulated land
- ensure compliance monitoring and enforcement

Strategic Priorities:

- continue compliance monitoring and enforcement capabilities
- integrate review of applications for permission with site specific planning application reviews

Budget Highlights:

- develop priorities for updating existing flood plain mapping studies and completing new flood plain mapping studies
- continue to monitor the Carp River Restoration Plan through the Kanata West Area
- continue delivery of the Tay Valley Septic Inspection/Re-inspection program in partnership with the Ottawa Septic System Office (RVCA)
- continue delivery of the North Frontenac and Drummond North Elmsley Septic Re-Inspection programs in partnership with the Ottawa Septic System Office (RVCA)
- update Regulation policies

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (2.4 FTE)	209,995	220,118	228,238	(8,120)	228,238	224,983
Mileage/Expenses/Professional Development	11,400	10,000	10,139	(139)	10,139	10,000
Materials/Supplies/Gen Expenses	1,502	2,000	1,910	90	1,910	2,000
Legal Fees	19,615	10,000	32,790	(22,790)	32,790	15,000
Mississippi/Rideau Septic Program	83,949	75,000	75,333	(333)	75,333	75,000
Total	326,461	317,118	348,410	(31,292)	348,410	326,983
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	170,002	172,118	175,750	(3,632)	175,750	176,983
Special Levy	0	0	0	0	0	0
User Fees - Permit Processing Fees - Permits/PropClear	71,710	70,000	81,480	(11,480)	81,480	75,000
User Fees - Permit Processing Fees - Carp River	800	0	523	(523)	523	0
User Fees - Mississippi/Rideau Septic Program	83,949	75,000	75,276	(276)	75,276	75,000
Other - Order for Legal Costs	0	0	15,382	(15,382)	15,382	0
Total	326,461	317,118	348,410	(31,292)	348,410	326,983

Flood Forecasting and Warning

Objectives:

- provide early warning of significant flood events to watershed municipalities
- advise operators/owners of significant dams on watershed conditions and forecasts
- monitor watershed conditions and assess flood potential
- operate emergency communications centre during Class 3 flood events
- assist municipalities in emergency response preparedness planning
- provide direction and information for the Low Water Response Team for drought monitoring and awareness

Strategic Priorities:

- update watershed modelling capabilities
- develop water budget analysis
- improve meteorological data access
- assess MVCA's forecasting and warning capabilities to meet provincial objectives and develop a plan to meet and maintain those objectives

Budget Highlights:

- continue to utilize WISKI-SODA in retrieving and disseminating real-time data on water levels and flows
- annual maintenance fees on software being used to improve timely access to remote data
- maintain the automated gauge network for all MVCA owned and operated dams
- install and maintain additional gauges within the City of Ottawa at Galetta and Huntley Creek
- professional development - additional training for WISKI usage
- support and maintenance costs for additional modules for WISKI for website development, field data entry, water quality and fisheries data management
- continue contract with OPG to undertake snow course on their behalf
- adding new automated gauges at Malcolm & Pine Lakes and on the Mississippi River at Ardoch Bridge
- purchase the radar module of WISKI with Quinte and Rideau Valley CA's

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (2.0 FTE)	158,599	168,337	174,798	(6,461)	174,798	166,973
Standby/On Call Pay	1,090	1,500	325	1,175	325	1,500
Mileage/Expenses/Professional Development	21,769	24,000	19,918	4,082	19,918	22,000
Equip Software Rent Pur Repair & Mtce	13,862	17,000	7,578	9,422	7,578	17,000
Utilities - Telephone & Hydro	11,187	10,000	8,456	1,544	8,456	11,000
Communications - Radios & Pagers	4,689	4,700	4,689	11	4,689	4,700
Materials/Supplies/General Expenses	5,531	5,000	2,169	2,831	2,169	5,000
Low Water Response	0	0	119	(119)	119	0
WISKI-Soda License and Maintenance Fees	4,576	5,400	4,594	806	4,594	5,700
Capital Assets:						
Equipment - Stream Gauge Equipment	0	0	0	0	0	0
Total	221,304	235,937	222,646	13,291	222,646	233,873
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	110,652	117,968	110,323	7,645	110,323	116,937
Municipal Levy	110,652	117,968	110,323	7,645	110,323	116,936
Special Levy	0	0	0	0	0	0
Other - Low Water Grant	0	0	2,000	(2,000)	2,000	0
Total	221,304	235,937	222,646	13,291	222,646	233,873

Operation/Maintenance of Flood Control Structures

Objectives:

- operate MVCA flood and erosion control structures in accordance with established operating policies and procedures
- update operating policies and procedures as required
- provide an integrated approach to stream flow regulation and reservoir management in cooperation with other watershed dam operators
- undertake routine maintenance of MVCA structures to provide a safe and efficient operation

Strategic Priorities:

- maintain a Dam Safety Program and associated policies for MVCA owned and operated structures
- maintain backup support for operations planning

Budget Highlights:

- operator safety equipment upgrades
- provide additional technical support to ensure consistent level of service year round
- update annual Emergency Preparedness and Response Plans for all MVCA owned and operated structures
- obtain new safety equipment for dam operators and field staff
- joint task team with Catawaqui and Quinte to develop dam database in WISKI
- develop fall retrieval plans for all MVCA owned or operated dams to meet OH&SA requirements
- continue 3 year contract with MNR Bancroft for \$6,900 in 2019 and negotiate new 3 year contract increasing 3% for next 3 years and additional contract costs estimated at \$3,000/year for preventative maintenance to be established each year
- continue last year of current OPG contract and negotiate new 3 year contract increasing annually by 3%
- convert dam operation data/budget files from Lotus to Excel

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (3.2 FTE)	230,754	243,304	240,478	2,826	240,478	251,221
Mileage/Expenses/Professional Development	18,141	14,000	11,434	2,566	11,434	15,000
Administrative Charges	18,200	18,200	18,200	0	18,200	18,200
Taxes/Insurance	38,069	38,000	34,746	3,254	34,746	38,000
Contract Operations	0	0	0	0	0	0
Materials/Supplies/Equipment/General Exp	1,785	4,500	2,803	1,697	2,803	4,500
Health & Safety Expenses	3,754	4,000	1,666	2,334	1,666	4,000
Total	310,704	322,004	309,327	12,677	309,327	330,921
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	131,074	130,824	135,240	(4,416)	135,240	131,855
Municipal Levy	131,074	146,480	135,238	11,242	135,238	153,166
Special Levy	0	0	0	0	0	0
User Fees - OPG Contract	39,055	38,000	29,549	8,451	29,549	39,000
Other - MNR Bancroft & Kemptville	9,500	6,700	9,300	(2,600)	9,300	6,900
WCS Reserve - Glen Cairn Prov Share	0	0	0	0	0	0
Total	310,704	322,004	309,327	12,677	309,327	330,921

Preventative Maintenance of Flood Control Structures

Objectives:

- perform annual inspections of all MVCA owned and operated structures to document maintenance issues
- undertake minor maintenance of MVCA flood and erosion control structures to maintain long term integrity and ensure continued safe operation of facilities

Strategic Priorities:

- complete digital drawings of all MVCA water control structures
- prepare dam safety reviews of MVCA water control structures
- update capital rehabilitation of MVCA structures

Budget Highlights:

- complete annual inspections of MVCA structures
- continue annual stoplog/signage replacement program
- undertake minor maintenance identified through inspections to dams to ensure safe operation of staff to meet health & safety requirements
- undertake minor maintenance of MNRF dams operated by MVCA on a cost recovery basis

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.6 FTE)	105,426	117,727	115,366	2,361	115,366	120,957
Mileage/Expenses/Professional Development	382	5,000	3,243	1,757	3,243	5,000
Materials/Supplies/Equipment	1,036	5,500	2,120	3,380	2,120	5,500
Stoplog Replacement	4,743	6,000	2,042	3,958	2,042	6,000
Total	111,586	134,227	122,771	11,456	122,771	137,457
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	7,066	0	3,229	(3,229)	3,229	0
Municipal Levy	104,520	134,227	119,542	14,685	119,542	68,728
Spécial Levy	0	0	0	0	0	0
WCS Reserve - Glen Cairn Prov Share	0	0	0	0	0	68,728
Total	111,586	134,227	122,771	11,456	122,771	137,457

Conservation Services

Objectives:

- to promote implementation of best management practices on private lands

Strategic Priorities:

- continuation of MVCA involvement in the Ottawa Clean Water Program
- continuation of MVCA involvement in delivery of the Ottawa Green Acres & Trees Ontario reforestation program
- continue to deliver a watershed wide private land stewardship program

Budget Highlights:

- provide forest management services to the County of Lanark
- implement prescriptions as per Lanark County 20 year Forest Management Plan
- promote and implement the Green Acres and Trees Ontario Program
- continue program for naturalizing shorelines throughout watershed in partnership with Lake Associations and private corporations and landowners
- complete Carp Erosion Control Project
- complete restoration work on Upper Poole Creek

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (.2 FTE)	22,332	15,302	20,811	(5,509)	20,811	56,043
Mileage/Expenses/Prof Development	1,888	2,000	2,541	(541)	2,541	2,000
Mat&Sup/Equip/GExp/Promotion	1,012	1,000	346	654	346	1,000
Ottawa Clean Water Prog - Mil/Exp/Grants/Comm Exp	0	6,000	0	6,000	0	3,500
County of Lanark Program	8,682	6,000	7,601	(1,601)	7,601	6,000
Shoreline Naturalization	0	3,000	3,065	(65)	3,065	3,000
Carp Erosion Control	13,942	30,000	44,212	(14,212)	44,212	160,000
Tree Planting/Stewardship Projects	5,088	5,500	5,088	412	5,088	5,500
Total	52,944	68,802	83,664	(14,862)	83,664	237,043
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	25,520	21,802	34,886	(13,084)	34,886	57,043
Special Levy	0	0	0	0	0	0
User Fees - City of Ottawa RCWP	0	6,000	0	6,000	0	6,000
User Fees - Lanark County	13,134	6,000	12,378	(6,378)	12,378	6,000
Other - City of Ottawa - Carp Erosion Control	14,289	35,000	36,313	(1,313)	36,313	163,000
Other - Trees/MVCF	0	0	88	(88)	88	5,000
Total	52,944	68,802	83,664	(14,862)	83,664	237,043

Land Management

Objectives:
 - manage and maintain MVCA properties and facilities
 - undertake risk management

Budget Highlights:
 - enhance maintenance to MVCA facilities and Conservation Areas
 - continue maintenance of access road to Morris Island Conservation Area

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.3 FTE)	75,690	81,507	78,458	3,049	78,458	84,060
Mileage/Expenses/Professional Development	356	3,500	0	3,500	0	3,500
Insurance/General Expenses	26,552	30,500	23,665	6,835	23,665	30,500
New Admin Office	116,055	100,000	106,179	(6,179)	106,179	100,000
Mill of Kintail Conservation Area	44,228	49,000	53,208	(4,208)	53,208	49,000
Palmerston/Canonto Conservation Area	1,108	3,000	2,266	734	2,266	3,000
Morris Island Conservation Area	8,648	16,000	15,985	15	15,985	16,000
Purdon Conservation Area	2,418	4,000	3,728	272	3,728	4,000
K & P Trail Conservation Area	43,000	12,000	8,889	3,111	8,889	8,000
Cedardale Properties	1,005	1,200	987	213	987	1,200
Road Maintenance - Winter	5,556	10,000	6,392	3,608	6,392	14,000
Total	324,617	310,707	299,757	10,950	299,757	313,260
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	321,508	309,057	298,107	10,950	298,107	311,610
Special Levy	0	0	0	0	0	0
Other - K&P - Bucci Order \$30,000	0	0	0	0	0	0
Other - Parking Meter MICA	1,459	0	0	0	0	0
Other - Bell Canada - Annual Easement - K&P	1,650	1,650	1,650	0	1,650	1,650
Total	324,617	310,707	299,757	10,950	299,757	313,260

Education

Objectives:

- to provide an environmental stewardship ethic through conservation based education programs and community outreach initiatives

Strategic Priorities:

- deliver Ontario curriculum based outdoor education program
- provide conservation based summer day camps
- carry out MVCA flood safety mandate with Spring Water Awareness Program (SWAP)
- promote Ontario curriculum based in-school environmental education opportunities
- create additional outdoor education opportunities for significant sites within the watershed
- increase communications with educators and public through social media presence

Budget Highlights:

- increased participation in environmental education professional development
- creation of new outdoor education opportunities and community initiatives
- provision of busing grants (MVCF) to bolster outdoor education bookings in winter
- maintain delivery of SWAP
- support Enviro-Thon

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.7 FTE)	90,178	96,673	97,599	(926)	97,599	99,708
Mileage/Expenses/Professional Development	1,235	3,000	2,721	279	2,721	3,000
Materials/Supplies/Equipment/General Exp	1,145	2,000	1,301	699	1,301	2,000
Publicity	636	1,000	114	886	114	1,000
Busing Program	1,800	2,000	1,200	800	1,200	2,000
Enviro-Thon	1,461	1,584	951	633	951	1,500
Childrens Water Festival	0	0	0	0	0	1,500
Total	96,454	106,257	103,886	2,371	103,886	110,708
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy	55,889	63,557	67,012	(3,455)	67,012	68,208
Special Levy	0	0	0	0	0	0
User Fees - Education Program	36,015	38,000	35,674	2,326	35,674	38,000
Other - MVCF - Busing	1,700	2,000	1,200	800	1,200	2,000
Other - OPG SWAP Grant	2,500	2,500	0	2,500	0	2,500
Other - Envirothon	350	200	0	200	0	0
Total	96,454	106,257	103,886	2,371	103,886	110,708

Visitor Services

Objectives:

- to foster an appreciation for the natural environment in the general public through the provision of day use Conservation Areas
- promote the values and life of R. Tait McKenzie and James Naismith through the operation and maintenance of the Mill of Kintail Museum and McKenzie artifacts, as well as the Brothers of the Wind Archival Centre

Strategic Priorities:

- promotion of all conservation areas as natural/recreation destinations
- increase visitorship via marketing and promotion
- promote multi-use trail use at sites through mapping, promotion and activities
- generate user fees through Gatehouse Conference Centre rentals and Cloister rentals

Budget Highlights:

- create new trail and interpretive signage
- Naismith & McKenzie promotional items including new joint logo design
- MVCA history storyboard

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (1.9 FTE)	115,772	113,583	114,057	(474)	114,057	117,019
Mileage/Expenses/Professional Development	1,040	1,500	100	1,400	100	1,000
Utilities - Telephone	5,135	5,000	3,900	1,100	3,900	5,000
Publicity	1,341	1,000	1,004	(4)	1,004	1,000
Admin/Bank/VisaChgs/Equip/GShop/M&S/SpEvExp/Scul	7,701	6,000	6,941	(941)	6,941	6,000
Interior Maintenance	893	2,500	0	2,500	0	2,000
Mississippi Mills Annual Grant	7,145	16,860	5,771	11,089	5,771	15,464
Morris Island CA	30	0	90	(90)	90	0
Night Sky Program	0	615	223	392	223	500
Capital Assets:						
Equipment	0	0	0	0	0	0
Furniture & Fixtures	0	0	0	0	0	0
Total	139,056	147,058	132,086	14,972	132,086	147,983
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Special Grant - Provincial Grant	13,445	13,445	13,445	0	13,445	13,445
Municipal Levy	81,201	80,138	77,730	2,408	77,730	81,074
Special Levy	0	0	0	0	0	0
User Fees - Conservation Areas	32,170	30,000	30,790	(790)	30,790	32,000
Special Grant - Miss Mills Grant - MOK & Naismith	11,240	16,860	5,771	11,089	5,771	15,464
Other - Night Sky Program/Purdon - Found Alloc	0	615	615	0	615	0
Other - Parking Metre - Morris Island CA	0	6,000	3,735	2,265	3,735	6,000
Other -Tait McKenzie Sculpture	1,000	0	0	0	0	0
Total	139,056	147,058	132,086	14,972	132,086	147,983

Water & Erosion Control Infrastructure

Objectives:

- undertake maintenance of MVCA flood and erosion control structures to maintain long term integrity and ensure continued safe operation of facilities

Budget Highlights:

- Shabomeka Lake Final Design and site easement
- Widow Lake Dam - deck replacement, railings, gain covers
- Kashwakamak Lake Dam Class EA
- Dam Operation Guidelines and Dam OMS Manual Updates
- Install a gate across the entrance to Mazinaw Lake Dam

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
Wages/Benefits (.2 FTE)	39,851	27,167	27,157	10	27,157	27,993
Shab L Dam Geotechnical Assessment	0	0	0	0	0	0
Bennett/Kash/ Structural Assess	0	0	0	0	0	0
Big Gull/Shab Lake Dam Deck	0	0	0	0	0	0
Big Gull L Dam Geotechnical Assessment	1,226	0	0	0	0	0
Dam Operation Guidelines and OMS Manuals	0	0	0	0	0	5,000
Mazinaw Lake Dam Gate	0	0	0	0	0	5,000
Widow Lake Dam Retrofit Design	13,050	9,500	6,327	3,173	6,327	0
Capital Assets:						
Shab Lake Dam Design Study	22,186	39,400	59,401	(20,001)	59,401	0
Mazinaw Lake Dam Gantry	7,631	28,500	32,657	(4,157)	32,657	0
Shab Lake Dam Final Design	0	0	0	0	0	60,000
Widow Lake Dam Repairs	0	0	0	0	0	112,650
Kash Lake Dam Repair	0	0	0	0	0	120,000
Total	83,943	104,567	125,542	(20,975)	125,542	330,643
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
WECA Grant	27,578	38,700	44,942	(6,242)	44,942	165,321
Municipal Levy - General	56,365	65,867	80,600	(14,733)	80,600	165,321
Deferred Revenue (WECA)	0	0	0	0	0	0
WCS Reserve	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total	83,943	104,567	125,542	(20,975)	125,542	330,643

Administration Office

Objectives:
 - facilitate construction of new Administration Office

Budget Highlights:
 - continue with annual financing plan

Expenditures	Approved Budget	Spent 2011-2017	2018 Budget	2018 Spent	2019 Budget
Capital Assets:					
Member Costs	18,000	16,551	0	0	0
Advertising	0	2,653	0	0	0
Borrowing Costs	55,000	263,950	0	0	0
Official Opening Charges	0	2,567	0	0	0
Professional Consulting Fees & Disb	310,000	344,091	0	0	0
Project Management	75,000	99,088	0	0	0
Permits/Approvals/Other	106,000	94,836	0	0	0
Furniture & Equipment Allowance	461,000	498,052	0	0	0
Moving Expenses	10,000	7,877	0	0	0
Land Costs	137,000	133,870	0	0	0
Construction Cost	5,213,712	4,852,791	0	0	0
Sub-Total	6,385,712	6,316,326	0	0	0
Annual Financing Charge	290,000	277,005	277,005	277,005	277,005
Grand Total			277,005	277,005	277,005
Revenues	Approved Budget	Received 2011-2017	2018 Budget	Received	2019 Budget
Provincial Grant	0	0	0	0	0
Municipal Levy - General benefit	6,385,712	287,593	277,005	277,005	277,005
Municipal Contributions 2009-2013	0	1,482,000	0	0	0
Loan	0	4,000,000	0	0	0
Other	0	416,818	0	0	0
Other - Deposit Returned	0	2,000	0	0	0
Other - Turn Lane Cont C.Place/Southwell	0	127,915	0	0	0
Grand Total	6,385,712	6,316,326	277,005	277,005	277,005
Upset Limit approved by BOD B04/18/12-4	6,500,000				

Conservation Areas Development

Objectives:

- Undertake capital improvements and upgrades to the Mill of Kintail Conservation Area

Budget Highlights:

- initiate new signs at conservation areas
- continue with new trail system in Roy Brown Park
- replace bridge decking at Morris Island CA

Expenditures	2017 Actual	2018 Budget	Spent	Unspent	2018 Projected	2019 Budget
K&P	83	0	0	0	0	0
Masonry Repairs MOK	746	0	0	0	0	0
Purdon Boardwalk	0	0	0	0	0	0
MOK Playstructure	407	0	0	0	0	0
Conservation Area Signs	0	8,000	8,094	(94)	8,094	4,000
Mill of Kintail Heating	195	0	0	0	0	0
Morris Island Bridge Decking	0	0	0	0	0	4,000
Basketball Court	0	0	0	0	0	0
New Office Trail - Phase 1	6,779	10,000	2,865	7,135	2,865	10,000
Capital Assets:						
Wages/Benefits	0	0	0	0	0	0
Parking Meter	8,625	0	0	0	0	0
MOK Playstructure	0	0	509	(509)	509	0
Picnic Shelter	0	0	0	0	0	0
Total	16,835	18,000	11,468	6,532	11,468	18,000
Revenues	2017 Actual	2018 Budget	Received	O/S	2018 Projected	2019 Budget
Provincial Grant	0	0	0	0	0	0
Municipal Levy - General	13,446	13,000	10,508	2,492	10,508	13,000
Other - Town of Carleton Place	3,390	5,000	960	4,040	960	5,000
Total	16,835	18,000	11,468	6,532	11,468	18,000

Reserve Investments

Expenditures	Dec 31 2017 Balance	Projected 2018 Allocations From Reserve	Projected 2018 Allocations to Reserve	Dec 31 2018 Balance	2019 Budget Allocations
Building Reserve	298,701	0	0	298,701	40,000
Information Technology Reserve	16,000	0	8,000	24,000	0
Museum Building & Art Reserve	1,913	0	1,000	2,913	0
Sick Leave Reserve	72,615	0	1,225	73,840	0
Vehicles & Equipment Reserve	36,903	0	0	36,903	0
Water Control Structure Reserve - MVCA	75,385	0	0	75,385	14,679
Water Control Structure Reserve - Glen Cairn - Prov	697,000	0	0	697,000	0
Conservation Areas Reserve	0	0	0	0	17,000
Total	1,198,517	0	10,225	1,208,742	71,679
Revenues	Dec 31 2017 Balance	Projected 2018 Allocations From Reserve	Projected 2018 Allocations to Reserve	Dec 31 2018 Balance	2019 Budget
MVCA Municipal Contributions	501,517	0	10,225	511,742	71,679
Glen Cairn - Provincial Funds from Sale of Property	697,000	0	0	697,000	0
Total	1,198,517	0	10,225	1,208,742	71,679

Staff Report #2989/19

February 13, 2019

Memorandum

To: The Chair and Members of the Board of Directors
Mississippi Valley Conservation Authority

From: Joan Sargeant, AMCT, Secretary-Treasurer

Re: Per Diem/Honorarium and Mileage Increase for 2019

The updated MVCA Administrative By-Law adopted September 19, 2018 states the following in Section 13 regarding remuneration of members:

“The general membership shall pass a motion annually at the Annual General Meeting specifying a per-diem rate to be paid to members for attendance at general meetings and advisory board or committee meetings and at such other business functions as may be from time to time requested by the Chair, through the Secretary-Treasurer. In addition, an honorarium may be approved by the Authority for the Chair and Vice-chair as compensation for their additional responsibilities. A single per-diem will be paid for attendance at more than one meeting if they occur consecutively on the same day. The Authority shall reimburse members’ reasonable travel expenses incurred for the purpose of attending meetings and/or functions on behalf of the Authority. A per kilometer rate to be paid for use of a personal vehicle shall be approved by resolution of the general membership from time to time. Requests for such reimbursements shall be submitted within a timely fashion and shall be consistent with Canada Revenue Agency guidelines.”

At the present time, the per diem paid to Board members is \$70.00 for one meeting and \$140.00 for two meetings in one day or for attendance on Authority business. The annual Honorarium for the Chair is currently at \$1,750.00. We do not have an Honorarium for the Vice-chair. The mileage rate reimbursed at the present time is \$0.55.

This matter will be discussed at the Finance & Administration Advisory Committee meeting on February 14, 2019 and a recommendation will be brought to the Board at the Annual Meeting as per policy requirements noted above.

Staff Report #2991/19

February 13, 2019

Memorandum

To: The Chair and Members of the Board of Directors
Mississippi Valley Conservation Authority

From: Matt Craig
Manager, Planning and Regulations

Re: **Ontario Regulation 153/06 Permits
Development, Interference with Wetlands and Alterations to Shorelines and
Watercourses**

Attached is a summary of permits issued and permits in progress up to February 12, 2019.

Recommended Resolution:

For Information

PERMITS ISSUED FOR 5 DEC 2018 TO 12 FEB 2019 FOR ALL MUNICIPALITIES

Row	CAID	Approved	Permit No.	Expiry	Municipality	Water Body
1		Dec 20,2018	W18/198	Dec 20,2020	DRUMMOND/NORTH ELMSLEY	Mississippi Lake
128 McCullough's Landing / LOT 19 / CON 07						
Reconstruction of a section of an existing dwelling located in the Floodplain.						
2		Jan 15,2019	W18/146	Jan 15,2021	OTTAWA	Mississippi River
Fitzroy St. East of Old Ship Rd / LOT 24 & 25 / CON 10						
Fitzroy Harbour Bridge Rehabilitation.						
3		Dec 07,2018	W18/147	Dec 07,2020	OTTAWA	Trib of Mississippi R
Ritchie Side Road, West of Ivy Acres / LOT 15 & 16 / CON 01						
Rehabilitation of the Ritchie Side Road Bridge						
4			W18/203		OTTAWA	
188 Country Meadows / LOT 16 / CON 06						
Construction of a single dwelling, septic system and associated grading within a regulated wetland within the City of Ottawa.						
5		Dec 20,2018	W18/205	Dec 20,2020	OTTAWA	
187 Country Meadows / LOT 16 / CON 06						
Construction of residential dwelling and associated septic system within a regulated wetland in the City of Ottawa.						
6		Jan 22,2019	W19/001	Jan 22,2021	OTTAWA	Carp River
570 Hazeldean Road / LOT 29 / CON 11						
Construction of the pond outlet for Fernbank SWM Pond 3, which will connect to the existing Carp River.						

7	Dec 17,2018	W17/220	Dec 17,2020	OTTAWA	Poole Creek
	1660 Maple Grove Road / LOT 28 / CON 12				
	Construction of Sewer crossing of Poole Creek				
8	Dec 20,2018	W18/200	Dec 20,2020	OTTAWA	Poole Creek
	33 Cloverloft Court / LOT 18 / CON NA				
	Construct a single family dwelling within the regulated limit of a meander belt hazard.				
9	Jan 24,2019	W19/003	Jan 24,2021	OTTAWA	
	192 Country Meadows / LOT 03 / CON N/A				
	Construct a new residential dwelling and septic system within a regulated wetland within the City of Ottawa.				
10	Jan 22,2019	W18/202	Jan 22,2021	OTTAWA	Carp River
	450 Huntmar Road / LOT 03 / CON 01				
	Arcadia Stage 3 - Filling within the remnant flood plain of the Carp River				
11	Jan 04,2019	W18/141	Jan 04,2021	OTTAWA	Ottawa River
	150 LANE STREET / LOT N/A / CON N/A				
	Reconstruct a retaining wall within the flood plain of the Ottawa River.				
12	Jan 04,2019	W18/177	Jan 04,2021	OTTAWA	Ottawa River
	152 Lane St / LOT 37 / CON N/A				
	Reconstruct a retaining wall within the flood plain of the Ottawa River.				
13	Jan 03,2019	W18/206	Jan 03,2021	OTTAWA	Ottawa River
	4992 Opeongo Road / LOT 22 / CON 04				
	Install a replacement septic system to service an existing dwelling within the stable slope hazard of the Ottawa River				
14	Jan 31,2019	W18/207	Jan 31,2019	OTTAWA	Unnamed Watercourse
	3195 Dunrobin Road / LOT 04 / CON 03				

Proposed alterations to a watercourse.

15	Dec 17,2018	W18/201	Dec 17,2020	TAY VALLEY	Bennett Lake
----	-------------	---------	-------------	------------	--------------

| 2031 Beach Road / LOT 09 / CON 10 | | | | | |
| Construct Retaining Wall along shoreline. | | | | | |

PERMITS ISSUED FOR 1 NOV 2018 TO 12 FEB 2019 FOR ALL MUNICIPALITIES

Row	CAID	Approved	Permit No.	Expiry	Municipality	Water Body
1			W18/199		OTTAWA	
Installation of gas pipeline east of Goulbourn Forced Road in regulated area.						
2			W18/196		MISSISSIPPI MILLS	
Installation of gas pipeline and crossing of Tributary of Mississippi R						
3			W19/002		OTTAWA	
Various Locations (Upper Dwyer Hill, March Road, Diamondview Road, Walgreen Road / LOT Multiple / CON Multiple						
Culvert Replacements on Upper Dwyer Hill, March Road, Diamondview Road and Walgreen Road.						

Staff Report #2992/19

February 20, 2019

Memorandum

To: The Chair and Members of the
Mississippi Valley Conservation Authority Board of Directors

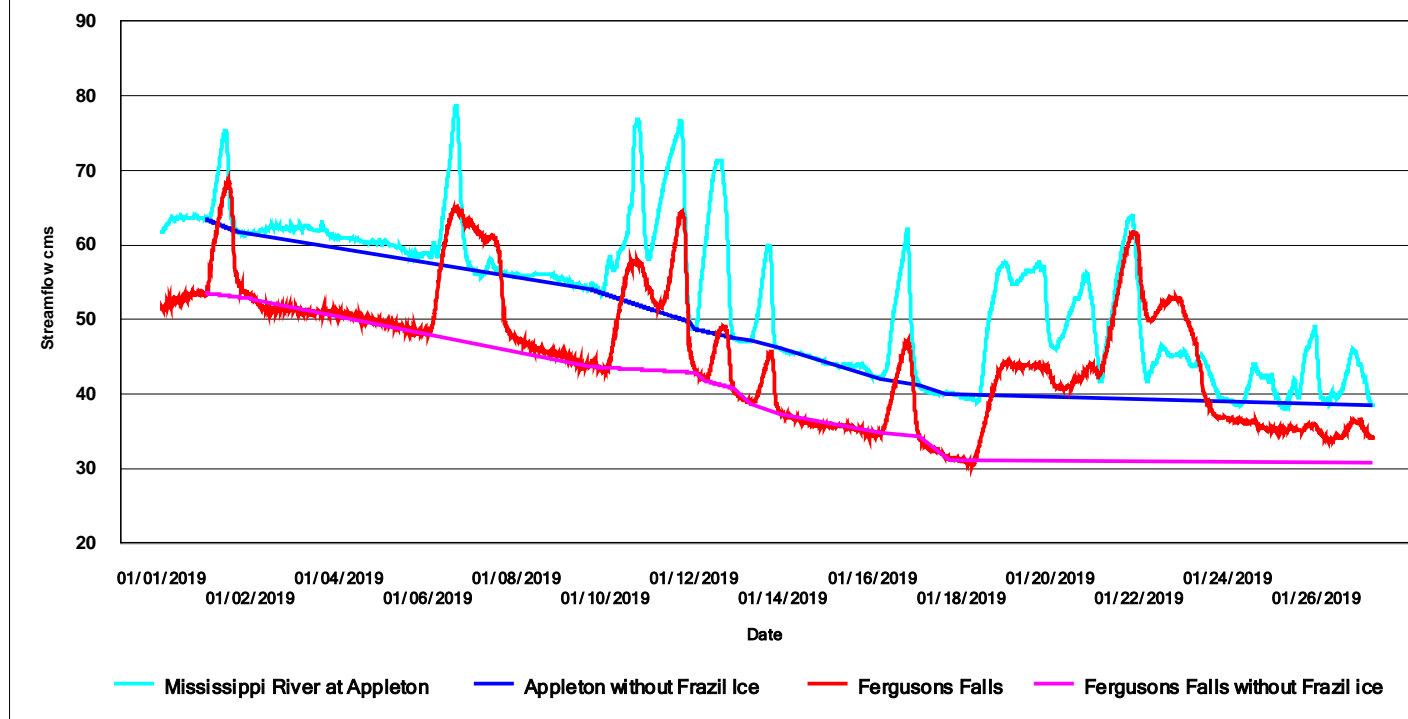
From: Gord Mountenay
Water Management Supervisor

Re: **Watershed Conditions as of February 13, 2019**

The drawdown on all of the upper watershed lakes occurs between mid-September and mid-December. Shabomeka and Pine Lake begin in September while Kashwakamak, Big Gull and Mississagagon are drawn down from early October through November. Mazinaw is drawn down from November through December. Crotch Lake is refilled at this time and then used to maintain flows in the river from January through March. The reservoir system is typically empty by the middle of March depending on how much precipitation occurs over the winter months. Overall, water level conditions across the watershed are close to average for this time of year. Crotch Lake is the main reservoir on the system. It is currently being operated to bring lake levels down to between 237.50 m and 237.00 m by mid-March, which provides maximum storage and flood mitigation for the system.

Due to the fluctuating temperatures this winter, ice conditions have been a concern, with **frazil** ice conditions occurring multiple times throughout the month of January. A Water Conditions Statement – Water Safety message was issued January 11th for frazil ice as extreme cold temperatures were causing significant frazil ice at Fergusons Falls and Appleton. The following chart shows the effects of frazil ice as the spikes are caused by those conditions. Frazil ice is formed by the super cooling of open aerated water which cause ice crystals to form, sink to the bottom of the river and build a dam until there is enough water pressure behind it to flush the dam away. This causes water levels to increase rapidly wherever these dams form and flows to change rapidly whenever the dam releases.

Effects of Frazil Ice on streamflows

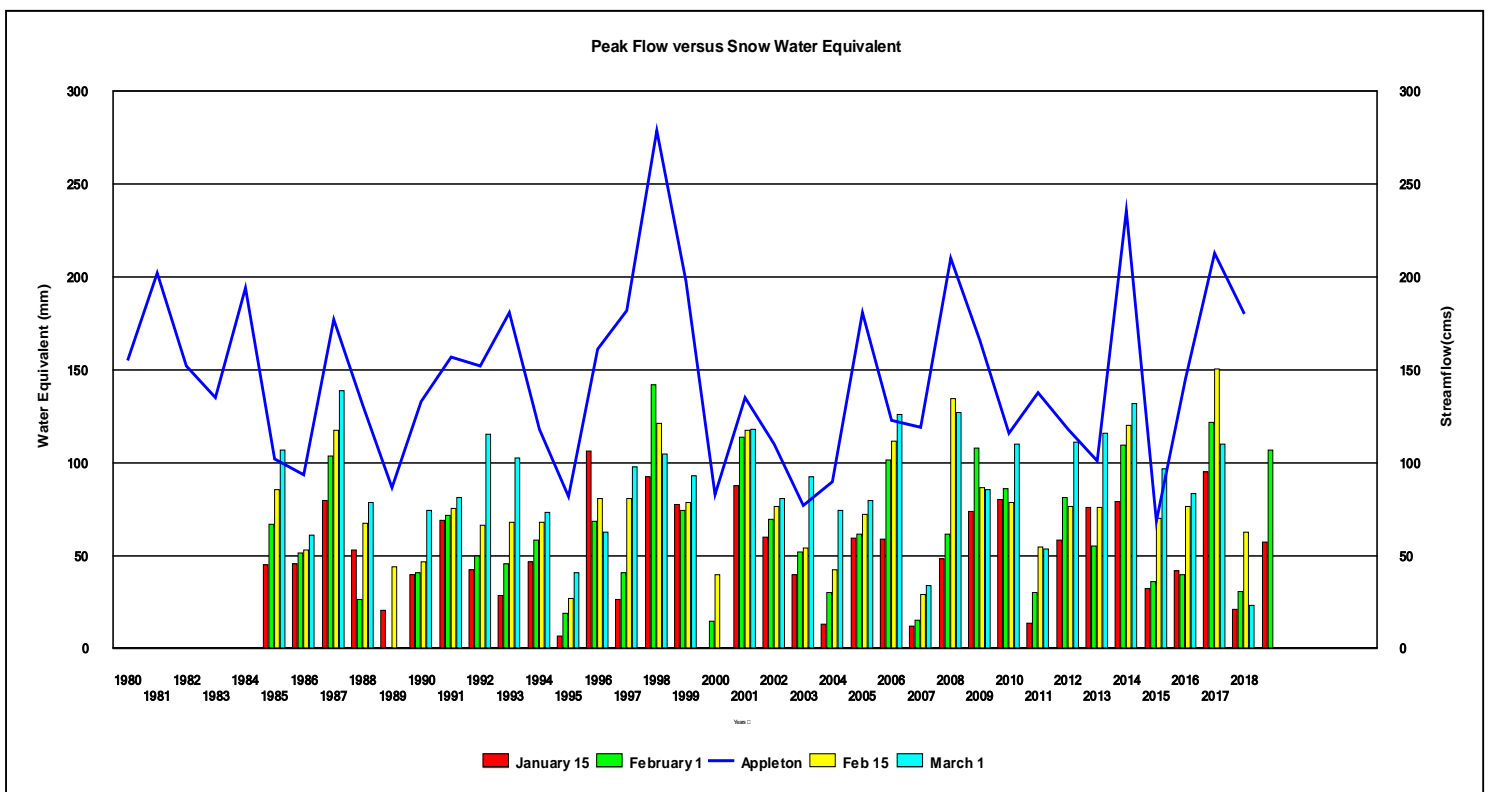


Snow pack conditions as of February 1st were roughly 50% higher than normal. With the snow storm that occurred February 12th and 13th, the watershed’s snowpack water content will be well above normal (snow course measurements are taken on or about the 1st and 15th of each month and data was not available for Feb 15th). Snow pack provides approximately 20 % of the total runoff so it does not dictate flooding in the spring but it is a good indicator. The other critical factors will be when and how much rainfall the watershed receives and how quickly temperatures rise.

Snow Courses	Date	Depth	WE	Density	Crust/Soil	Historical Depth / WE	% W.E.
Ardoch	1-Feb-19	40.0	107	26.8%	A/F	24.6 / 53.8	21.87%
Bon Echo Park	1-Feb-19	52.2	147	28.2%	A/F	42.7 / 89.9	21.05%
Mackavoy Lake	1-Feb-19	56.7	144	25.4%	A/F	36.0 / 72.8	20.22%
Buckshot Lake	1-Feb-19	49.1	131	26.7%	A/F	35.6 / 78.5	22.05%
Canonto Lake	1-Feb-19	36.9	102	27.6%	A/F	25.9 / 54.4	21.00%
Lavant	1-Feb-19	30.1	97	32.2%	D/F	23.6 / 51.9	21.99%
Gordon Rapids	1-Feb-19	38.5	126	32.7%	D/F	27.3 / 62.6	22.93%
Brightside	1-Feb-19	39.9	119	29.8%	D/F	25.4 / 65.5	25.79%
Fallbrook	1-Feb-19	35.8	82	22.9%	D/F	25.2 / 53.9	21.39%
Snow Road	1-Feb-19	34.5	101	29.3%	C/F	26.1 / 58.4	22.38%
Maberley	1-Feb-19	31.6	90	28.5%	A/F	30.8 / 70.8	22.99%
Innisville	1-Feb-19	22.0	57	25.9%	D/F	25.0 / 54.8	21.92%
Kinburn	1-Feb-19	32.9	90	27.4%	C/F	29.9 / 65.0	21.74%
Blakeney	1-Feb-19	37.2	103	27.7%	C/F	31.6 / 69.8	22.09%
Stittsville	1-Feb-19	32.7	104	31.8%	D/F	25.4 / 69.7	27.44%
High Falls	1-Feb-19	41.8	105	25.1%	C/F	25.0 / 75.5	30.20%

It is still too early to be confident in making a long range spring prediction. However, based on the current snow pack conditions, if the winter unfolds with the normal average precipitation over the next two months, the watershed will experience above average spring peak flows, similar to those experienced in 2017, 2014 and 2008. The long range forecast is normally made after March 1st and March 15th snow data surveys. The historical average spring peak date for the lower Mississippi River is April 9.

The following graph provides a historical outlook of snowpack conditions for January 1st, 15th and February 1st against the spring peak discharges at the Appleton stream gauge site on the Mississippi River.



January 18, 2019

The Honourable Catherine McKenna
Minister of Environment and Climate Change
House of Commons
Ottawa, Ontario
K1A 0A6

Dear Minister:

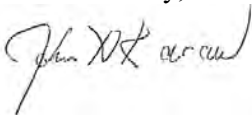
I am writing to you on behalf of the five Ontario Conservation Authorities within the Ottawa River watershed (please see attached map). We provide sustainable watershed management for 11 % of the Basin which has the highest population density along the Quebec/Ontario border and we clearly recognize that a healthy watershed depends on collaboration and partnerships throughout the entire watershed. Protecting the source of drinking water for over 2 million Canadians is but one example of a shared asset that needs shared solutions.

The recently completed Ottawa River Watershed Study underscores the need for enhanced collaboration. A coordinating body such as an Ottawa River Watershed Roundtable or Council that involves all governments, organizations and key stakeholders from around the Ottawa River Basin is supported by many but not all. As such continued Federal leadership and investment is needed to help move towards an integrated approach to sustainable water management within the Ottawa River watershed as called for in the 2015 Gatineau Declaration. We also wish to acknowledge the important leadership provided by Ottawa Riverkeeper, particularly their work for reporting on river health.

Conservation Authorities are well known as valued partners in conservation and integrated watershed management. As members of Conservation Ontario, which is the network of Ontario's 36 conservation authorities, we also have a proven track record for helping to implement the Great Lakes Water Quality Agreement through on the ground actions and representation on the Great Lakes Executive Committee and several of the Annex sub-committees. The co-management arrangements for the Great Lakes could work equally well for the Ottawa River connection to the Great Lakes Basin.

We look forward to an opportunity to help develop a plan of action and new partnerships for a sustainable Ottawa River watershed.

Yours Sincerely,



John Karau
Mississippi Valley Conservation Authority

c.c. Bonnie Fox, Conservation Ontario
Patrick Nadeau, Ottawa Riverkeeper
Brian Tayler, North Bay-Mattawa Conservation Authority
Sommer Casgrain-Robertson, Rideau Valley Conservation Authority
Angela Coleman, South Nation Conservation
Richard Pilon, Raisin Region Conservation Authority

Ontario Conservation Authorities within Ottawa River Watershed

