



2022 ANNUAL WORKPLAN



Since our formation in 1966, the RVCA has worked with our municipal partners to deliver programs and services that protect the Rideau watershed for the benefit of everyone. Our goal is to ensure actions upstream don't have detrimental impacts downstream.

Municipalities understand that it takes a healthy watershed to support local economies, protect public health, reduce flooding, droughts and erosion and make communities resilient to climate change. In 2022, we continue on this path as we work to conserve our shared watershed and ensure our future.

OUR LEGISLATIVE MANDATE

To provide programs and services designed to further the conservation, restoration, development and management of natural resources in the Rideau watershed (*Conservation Authorities Act*).

OUR VISION

A thriving watershed with clean abundant water, natural shorelines, rich forests and wetlands, diverse habitats and sustainable land use that is valued and protected by all.

OUR MISSION

To understand, manage, protect, restore and enhance the Rideau watershed through science, stewardship, education, policy and leadership.

OUR PRIORITIES

Our Strategic Plan outlines a number of key priorities. Many are now complete, while others will be achieved this year and are highlighted in our "Special for 2022" boxes.



2022 BUDGET

The RVCA's proposed budget for 2022 is \$11.64 million and will enable the RVCA to continue serving the needs of our municipalities and watershed residents while making progress on a number of critical priorities outlined in our Strategic Plan. In the following pages of this work plan, you will see priority projects highlighted in boxes marked "Special for 2022." These boxes highlight both capital projects and operational priorities.

Our proposed budget for 2022 can be broken down into three main expenditures:

- \$1.16 million for Rideau River Ice Management
- \$0.92 million for capital projects
- \$9.56 million for operations to deliver all programs and services

EXPENDITURES

- Staff time has been reallocated among programs and departments for 2022 to better reflect workload, support the completion of strategic priorities and better serve our municipalities and watershed residents.
- An additional 0.58 FTE has been added to the budget to enable an extended student contract to support groundwater monitoring. This priority will support a number of important program areas and can be accommodated within our operating budget as our 2018 corporate restructuring has still resulted in an overall reduction in FTE positions.
- A number of capital projects are also planned for 2022 to address critical infrastructure needs with the hope of leveraging external funding opportunities. RVCA's contributions for these projects will be taken

from reserves and will not put additional pressure on the 2022 municipal levy.

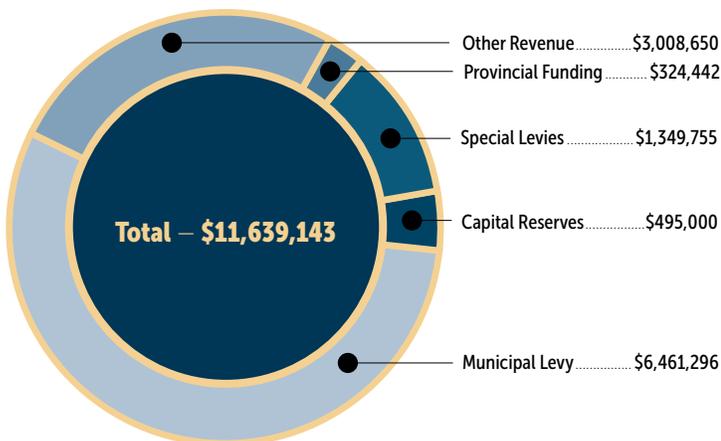
- Like our member municipalities, salary costs also increase annually. While benefit and OMERS contribution rates as well as payroll taxes remained relatively steady over last year, RVCA's budget accommodates a cost-of-living increase of 3.5 percent based on Ontario's Consumer Price Index. This relatively high cost-of-living rate is due to the COVID-19 pandemic following a historically low cost-of-living rate last year of only 0.5 percent.

REVENUES

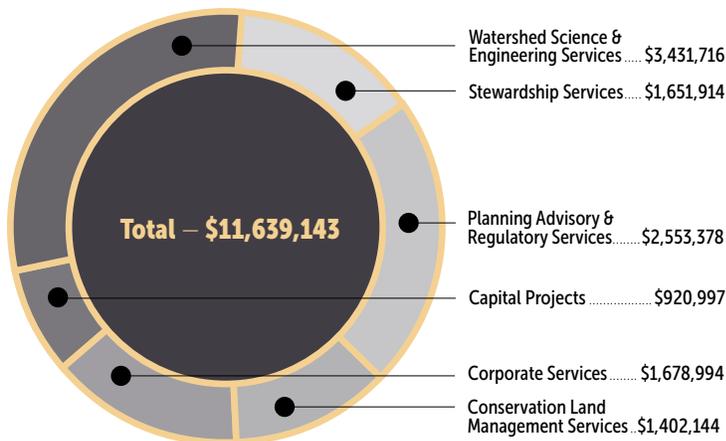
- Provincial funding is expected to be similar to last year and is projected to be \$324,442 for 2022.
- Special levies to the City of Ottawa will increase slightly and are set at \$1,349,755 for 2022.
- Self-generated revenue such as program and user fees, fundraising and grants is budgeted to decrease slightly as last year included significant capital projects. Other revenue is projected to be \$3,008,650 in 2022 with an additional \$495,000 being transferred from reserves.
- The municipal levy will increase slightly by \$212,460 in 2022 to \$6,461,296. This increase is a 2 percent tax increase for municipalities as 1.4 percent will come from new assessment growth in the watershed.

This proposed increase reflects budget direction we received from member municipalities which was to remain within a 2 percent tax increase, it is also below the City of Ottawa's budget direction which was a 3 percent tax increase.

WHERE DOES THE MONEY COME FROM?



WHERE DOES THE INVESTMENT GO?



MUNICIPAL LEVY

Being a municipally-based organization, the foundation of our budget is the municipal levy. However, we are committed to minimizing pressure on the levy and for the seventh consecutive year, the RVCA has kept its municipal levy increase to a two percent tax increase by reducing costs, finding efficiencies and maximizing other revenue sources. While the levy remains the foundation of our budget, other sources make up half of our revenue on average. This means that for every dollar invested through the municipal levy, the RVCA is able to double that investment to deliver a variety of programs and services in the Rideau watershed. Our other revenue sources include:

- Charging fees for education programs, conservation areas, permits and planning comments

- Getting grants for special projects, students and interns
- Fundraising through our Foundation
- Special levies for specific projects that benefit a particular municipality
- Joint programming and staff sharing with neighbouring conservation authorities
- Landowner contributions for services they receive

MUNICIPAL LEVY APPORTIONMENT

Based on assessment value, the City of Ottawa will pay almost 91 percent of the RVCA's levy in 2022. This amounts to 5.9 million leaving our other 17 municipalities to share the remaining \$586,466. Levy costs for these municipalities range from \$1,800 to \$108,842 depending on their assessment.

RVCA SERVICES: SERVING OUR MUNICIPALITIES AND RESIDENTS

RVCA staff work closely with municipal staff because our work is so interconnected. In fact, it's hard to find a municipal service that our programs don't support either directly or indirectly! For example, our work supports municipal development review, emergency management, water and sewage services, tourism and recreation and of course economic development. And the benefit of a conservation authority is that these programs are delivered consistently across the watershed at a fraction of the cost because our staff are shared among 18 municipalities and sometimes neighbouring Conservation Authorities. This saves money and avoids duplication. RVCA's programs also serve a wide range of public interests and needs benefiting local watershed residents from lake country to agricultural areas to urban communities.

Through the RVCA, municipalities and residents have access to expert staff who develop a strong understanding of our local watershed and share their knowledge, expertise and skills with our partners. In the following pages, you will find information about all of RVCA's programs and services organized into five key areas:

- Watershed Science and Engineering Services
- Planning Advisory & Regulatory Services
- Stewardship Services
- Conservation Land Management Services
- Corporate Services



WATERSHED SCIENCE & ENGINEERING SERVICES

RVCA collects, monitors and analyses watershed data to gain a better understanding of natural hazards and the health of our watershed. This includes understanding local flood, erosion and slope stability hazards as well as the condition of local lakes and streams, forest and wetland cover as well as fish and aquatic communities.

This knowledge enables RVCA, municipalities and other partners to make informed decisions about how best to manage our shared natural resources, protect people and property from natural hazards and tailor programs and services to meet the evolving needs of our watershed. This information and data are shared with municipalities, partners and the public through online tools, maps, reports, presentations and other accessible means.

Watershed Science and Engineering Services include:

- Watershed Reporting
- Drinking Water Source Protection
- Surface Water Quality Monitoring
- Hydrometric Monitoring and Forecasting
- Flood and Hazard Mapping
- Aquatic & Terrestrial Habitat Monitoring
- Habitat and Wetland Restoration
- City Stream Watch
- Water, Flood and Erosion Control Structures



SPECIAL FOR 2022

- Complete a draft report that evaluates the current condition of the Rideau watershed — this report, based on RVCA's monitoring data, will serve as the foundation of a new Watershed Plan that will identify priority actions to protect and enhance the Rideau watershed and help address the impacts of climate change
- Initiate a climate change assessment to better understand the impacts of climate change on both the local watershed and RVCA's programs and services, and support municipalities with their climate change priorities
- Calibrate 10 new climate stations that will provide near real-time data (including temperature, precipitation, solar and wind conditions and soil moisture) to support flood and low water monitoring, floodplain mapping and climate change assessment
- Test an updated watershed model that will also support flood forecasting and warning, floodplain mapping and climate change assessment.
- Finalize hazard mapping for Upper Jock River and Stevens Creek following public consultation
- Complete hazard mapping for Mosquito Creek and undertake public consultation
- Continue technical modeling for the Middle Rideau and Wolfe/Sand Lake hazard mapping projects
- Conduct a flood risk assessment of the watershed to prioritize key areas for future hazard mapping studies

WATERSHED SCIENCE & ENGINEERING SERVICES INCLUDE:

Watershed Reporting

- Report on the health of the watershed through user-friendly, accessible analysis of the RVCA's extensive monitoring programs.
- Identify concerns, trends and priority areas for action at both a subwatershed and catchment scale.
- Engage with municipalities, watershed residents, NGOs and government agencies to focus watershed management actions where they are needed most.

Drinking Water Source Protection

- Administer the province's Drinking Water Source Protection Program under the *Clean Water Act* in the Mississippi and Rideau watersheds.
- Help protect present and future sources of municipal drinking water from contamination and overuse.
- Work with municipalities, provincial ministries, property owners, businesses, health units and others to implement source protection policies.

Surface Water Quality Monitoring

- Provide a consistent baseline dataset that can give a general indication of water quality in the watershed.
- Assess the contribution of tributary streams to loadings in the Rideau River and upper watershed lakes.

- Monitor ambient water quality conditions at locations on major tributary streams and watershed lakes.
- Involve local lake residents in monitoring to increase the extent of monitoring activities and provide training to develop consistent methods to ensure data integrity.
- Sample bottom dwelling bugs (benthic invertebrates) to determine water quality and habitat conditions using a biological method which complements water chemistry sampling programs.

Hydrometric Monitoring and Forecasting

- Collect, manage, analyze and disseminate data and information about the abundance or scarcity of surface water resources within the watershed.
- Issue flood and drought advisories and warnings as needed.
- Expand data availability through the RVCA website.

Flood and Hazard Mapping

- Study and map hazard lands as defined by the MNRF such as floodplain, steep slopes and unstable soils for effective administration and enforcement of regulations under Section 28 of the *Conservation Authorities Act*.





- Support municipalities with up-to-date mapping of hazard lands for Official Plan and Zoning By-law schedules.
- Refine RVCA's numerical watershed modeling system for use in floodplain hydrology and hydraulic analyses for ungauged watersheds and for investigating the potential impacts of land use and climate change on a watershed scale.

Aquatic & Terrestrial Habitat Monitoring

- Collect information on the physical and biological attributes of surveyed creeks and streams (habitat surveys, fish sampling, thermal regime) through the Stream Characterization program.
- Inventory detailed land cover information to help facilitate land use planning and regulations, ecosystem management and conservation objectives for the RVCA and member municipalities.
- Collect field survey information to assist landowners and municipalities when attempting to understand flooding issues as a result of beaver dam activity.
- Collect information on headwater drainage features through a rapid assessment method characterizing the amount of water, sediment transport, and storage capacity within headwater drainage features.
- Undertake Ontario Stream Assessment Protocol at special Habitat Restoration project sites as a tool for post effective monitoring.

Habitat and Wetland Restoration

- Create, restore and/or enhance fish and wildlife habitats in the watershed.
- Use watershed monitoring data to identify opportunities and at-risk areas.
- Partner with like-minded organizations to secure funds and complete restoration work.
- Conduct post-construction monitoring for five years to measure project success.

City Stream Watch

- Monitor, record and report on the health of five creeks and streams within the City of Ottawa.
- Gather information using a robust network of trained volunteers.
- Collect information about the physical and biological characteristics of creeks and streams following rigorous protocol.
- Use data to guide rehabilitation and enhancement projects.

Water, Flood and Erosion Control Structures

- Operate and maintain water, flood and erosion control structures (berms, dams and weirs).
- Determine whether to maintain, rehabilitate or decommission existing structures.
- Work with municipalities interested in constructing or replacing structures to alleviate flooding or erosion concerns.

PLANNING ADVISORY & REGULATORY SERVICES

RVCA plays a key role in development review to help municipalities and the province meet their legislative responsibilities of providing safe drinking water, protecting people from natural hazards and protecting important natural features. Our role includes providing comments to municipalities on *Planning Act* applications and municipal planning documents; issuing permits for development in areas vulnerable to flooding, erosion or unstable slopes or near wetlands, shorelines or watercourses; issuing approvals for septic systems and re-inspecting lakefront septic systems in some municipalities; and regulating activities near sources of municipal drinking water. Staff provide a comprehensive streamlined service to municipalities

and applicants that brings together local watershed knowledge and provincial policies to reduce municipal liability, avoid delays and unnecessary expenses for applicants, and create safe sustainable communities.

Planning Advisory & Regulatory Services include:

- Site-Specific Plan Review
- Non Site-Specific Plan Input
- Section 28 Regulations
- Septic Approvals
- Septic Re-Inspection
- Source Water Regulations

SPECIAL FOR 2022

- Work with RVCA's multi-stakeholder working group to complete updated development review policies and undertake public consultation
- Reinstate information days for municipalities, consultants and developers to discuss development review processes and topics
- Work with municipalities to further improve and integrate development review processes and promote pre-consultation with applicants
- Provide our septic approvals and septic re-inspection program to additional municipalities
- Continue work on Section 34 and Section 36 Source Water Protection updates with municipal partners



PLANNING ADVISORY & REGULATORY SERVICES INCLUDE:

Site-Specific Plan Review

- Review planning applications on behalf of the Province and municipalities.
- Provide comments to municipalities on natural hazards (floodplains, steep slopes, unstable soils), natural heritage (wetlands, significant woodlands, significant valley lands) and surface and ground water quality and quantity.
- Staff work closely with applicants to discuss concerns and alternatives and prepare recommendations to the municipal approval authority.
- RVCA’s review and recommendations brings local watershed science, provincial policies and guidelines, and individual municipality needs together to ensure sustainable development.

Non Site-Specific Plan Input

- Provide input to municipalities on official plans, comprehensive zoning by-laws, environmental assessments and other special studies in an effort to identify natural hazards and protect and enhance surface and groundwater quality and quantity, wetlands and other natural features.
- Participate on technical advisory committees that oversee the preparation of master servicing studies, community design plans, subwatershed studies and environmental management plans.
- Sharing watershed knowledge and expertise with municipalities through these processes helps build sustainable communities.

Section 28 Regulations

- Regulate development, interference with wetlands and alterations to shorelines and watercourses as mandated by the *Conservation Authorities Act*.
- Mapping is prepared to show where development is regulated including hazard lands such as floodplains, steep slopes and unstable soils.
- Staff work closely with property owners to guide them through the permitting process and encourage pre-consultation to avoid unnecessary costs and delays.
- Staff also work with property owners to resolve issues of non-compliance and violations outside of the legal system wherever possible.

Septic Approvals

- Provide full review and approval services for private septic systems under Part 8 of the *Ontario Building Code*. This service is available to interested municipalities and is currently

provided in the City of Ottawa and Tay Valley Township in partnership with our neighbouring Conservation Authorities.

- Staff work closely with local septic designers and installers as well as property owners when delivering this service.

Septic Re-Inspection

- Provide mandatory and discretionary inspection programs for existing private septic systems under the *Ontario Building Code*.
- This service is available to interested municipalities and is currently provided in the Township of Central Frontenac, Township of North Frontenac, Township of Rideau Lakes and Tay Valley Township.
- Staff work closely with property owners, lake associations and other local partners when delivering this service.

Source Water Regulations

- Act as Risk Management Inspectors and Officials on behalf of 12 municipalities in the Mississippi and Rideau watersheds. This service implements policies in the *Mississippi-Rideau Source Protection Plan* under Part IV of the *Clean Water Act*.
- Screen development applications within vulnerable drinking water areas on behalf of municipalities.



STEWARDSHIP SERVICES

RVCA provides technical and financial support to landowners and other partners to help them undertake projects on private and public property that will improve watershed health. Projects include tree planting, naturalizing shorelines, managing runoff, enhancing habitat and upgrading wells and septic systems. Staff work closely with private landowners, municipalities, lake associations, NGOs, community groups, businesses, government agencies and the public to complete these important on-the-ground projects. Information from RVCA's science and monitoring programs help target areas and projects that provide the most benefit. Completing landowner

stewardship projects across the watershed helps improve water quality, increase forest and wetland cover, reduce flooding and erosion and increase climate change resiliency.

Stewardship Services include:

- Tree Planting
- Butternut Recovery
- Rural Clean Water
- Shoreline Naturalization
- Beaver Management
- Ontario Rural Wastewater Centre

SPECIAL FOR 2022

- Plant our 7 millionth tree as part of our watershed-wide tree planting program
- Work with provincial *Technical Task Team* to implement the new national 2 Billion Tree Program
- Partner with the County of Lanark and Mississippi Valley Conservation Authority to form a new chapter of ALUS (Alternative Land Use Services) to work with local farmers to maintain or enhance ecosystem services on their land
- Work with the Motts Mills Steering Committee to restore and enhance a second section of provincially significant wetland upstream of Motts Mills Conservation Area
- Continue tree planting and pollinator habitat compensation project for Hydro Ottawa along the Jock River
- Explore forest certification on RVCA properties to recognize responsible forest management
- Begin a new butternut planting at Foley Mountain Conservation Area
- Work with municipalities to promote and implement shoreline buffer conditions and vegetation retention plans as part of site plan control
- Provide Species at Risk compensation projects for developers under the Province's proposed Species at Risk Conservation Fund
- Start a butternut stewardship program with funding from a new corporate donor
- Acquire new lands to allow for the development and delivery of Species at Risk projects

STEWARDSHIP SERVICES INCLUDE:

Tree Planting

- Deliver a quality, full-service tree planting program to rural landowners that plants more than 200,000 trees a year on private land.
- Provide significant cost subsidies through external funding.
- Provide technical advice on woodlot management and best practices for landowners.
- Review conservation areas' coniferous plantations for thinning opportunities and potential revenue generation.

Butternut Recovery

- Help butternut persist on the landscape through the development of healthy, disease-tolerant seedlings.
- Locate healthy, disease-tolerant butternuts on private lands.
- Collect seeds to grow seedlings for distribution to landowners free of charge.
- Give away up to 2,000 seedlings per year to landowners.



Rural Clean Water

- Provide financial and technical assistance to farmers and rural landowners undertaking projects to protect and improve water quality in the watershed.
- Address erosion control and reduce the amount of nutrients, bacteria and microorganisms entering groundwater and surface water.
- Provide financial support through cost-share grants.
- Promote and support best management practices that address both surface and groundwater issues.

Shoreline Naturalization

- Increase the amount of natural shoreline cover across the watershed.
- Provide a simple and affordable option for landowners to complete naturalization projects on their shoreline by providing free advisory site visits, customized planting plans, subsidized native trees and shrubs, project management and monitoring and assistance with planting installation.
- Work closely with municipalities, Parks Canada and RVCA regulatory staff to facilitate planting requirements for planning and permit applications when needed.

- Fundraise for special large-scale projects and stewardship targeting.

Beaver Management

- Track nuisance beaver calls, distribute beaver management information to landowners and municipalities and assist with advice on managing beavers and dams
- In certain circumstances, provide monitoring and coordinate trapping and dam breaching for municipalities addressing wide-spread beaver activity causing flood damage.

Ontario Rural Wastewater Centre

- Develop and teach courses for septic installers, designers and regulators looking to advance their knowledge of design, inspection, and repairing on-site systems.
- Ensure best practices, technology and innovations are being used across the industry.
- Manage and maintain a demonstration site at Baxter Conservation Area that provides hands-on learning through displays of a wide variety of wastewater treatment technologies.

CONSERVATION LAND MANAGEMENT SERVICES

RVCA accepts land donations to protect valuable features like forests, wetlands and shorelines in perpetuity. Staff manage these properties so natural features are left to perform natural functions like slowing runoff, filtering pollutants, reducing flooding and erosion and providing habitat. Some properties are developed into public conservation areas to encourage residents to spend time outdoors and develop an appreciation for nature. Two conservation areas also offer outdoor education programs to get children outside and teach them about the importance of our

natural environment and the need to protect it for future generations. RVCA’s conservation areas are valued by local communities and municipalities as they provide affordable recreation, tourism and education for local residents and visitors.

Conservation Land Management Services include:

- Conservation Lands
- Conservation Areas
- Outdoor Education

SPECIAL FOR 2022

- Replace pedestrian bridge at Chapman Mills Conservation Area
- Retrofit washrooms in Interpretive Centre at Baxter Conservation Area to be more accessible
- Begin construction of new Baxter boardwalk bridge focusing on gold standard accessibility features
- Complete renovations at Baxter Conservation Area’s River Cabin
- Improve ventilation system in Interpretive Centre at Foley Mountain Conservation Area
- Install permanent story trail signs at Foley Mountain Conservation Area
- Finalize land donations in Perth and Merrickville in cooperation with the Rideau Valley Conservation Foundation
- Replace culvert and upgrade flood control structure at Mica Mines
- Allow the installation of a new tiny cabin rental at Mica Mines Conservation Area
- Extend accessibility ramp at Rideau Ferry Conservation Area
- Continue delivering virtual outdoor education programs to students and special interest groups across the watershed
- Explore delivering outdoor education programs at other locations across the watershed to make them accessible to more students
- Reconfigure program delivery at Baxter and Foley Mountain Conservation Areas to enable forest school and outdoor education programs to be delivered concurrently



CONSERVATION LAND MANAGEMENT SERVICES INCLUDE:

Conservation Lands

- Accept land donations to protect high-quality natural areas in perpetuity for their invaluable environmental and ecological services and public benefits.
- Manage 63 properties (7,500+ acres) of critical green infrastructure.
- Develop management plans for each property to ensure strategic land use planning and efficient use of resources.

Conservation Areas

- Welcome more than 270,000 visitors annually to 11 public conservation areas.
- Provide nature-based recreation and visitor experiences through trails, picnic shelters, beaches, boat launches, docks and lookout points.

- Connect people to nature and ensure people of all backgrounds, abilities and circumstances can access natural areas and the Rideau River system.

Outdoor Education

- Deliver high quality, curriculum-based education programs, forest schools, day camps and group programs that promote the values of conservation and environmental stewardship.
- Maintain quality facilities and interpretive centres at Baxter and Foley Mountain Conservation Areas where these programs and camps are offered.
- Incorporate new technology into education programs to enhance learning experiences.
- Encourage families and children to be active in outdoor play all-year-round.



CORPORATE SERVICES

The RVCA is a public sector body committed to operating in an open, accountable and transparent manner. Working with all levels of government, residents, businesses and community partners the RVCA delivers programs and services that conserve, restore and responsibly manage land and water resources while balancing human, environmental and economic interests. As the needs of our watershed change, RVCA remains agile in the face of increasing growth pressure, fiscal constraints and climate change impacts. Through strategic planning, program reviews

and consultation with partners and stakeholders, the RVCA is focused on modernizing our programs to ensure they are effective and cost-efficient at meeting the current and future needs of our watershed.

Corporate Services include:

- Management, Finance & Human Resources
- Communications and Outreach
- GIS and Information Management
- Rideau Valley Conservation Foundation

SPECIAL FOR 2022

- Continue to represent Eastern Ontario on the Minister of Environment, Conservation and Parks' *Conservation Authorities Working Group*.
- Work with municipalities to begin implementing the Province's changes to the *Conservation Authorities Act* and regulations, starting with the preparation of a programs and services inventory.
- Engage local Indigenous communities to identify how the RVCA can learn from Indigenous knowledge, support Indigenous

- conservation priorities and be a stronger ally in the journey towards reconciliation.
- Implement an online payment system that integrates into RVCA's accounting software to streamline ordering and payment processing.
- Explore electric vehicle and solar power opportunities to reduce RVCA's carbon footprint.
- Grow our donor base and streamline the Rideau Valley Conservation Foundation's administration and communication efforts through the use of new Customer Relationship Management software.



CORPORATE SERVICES INCLUDE:

Management, Finance & Human Resources

- Provide overall management of the RVCA through work planning, budgeting, financial reporting, policy development, issues management, municipal and government relations, partnership development, employee management and payroll.
- Serve the needs of the Board of Directors (training, meetings, agendas and minutes).
- Operate the RVCA efficiently, effectively and safely for staff and patrons while providing excellent customer service.

Communications and Outreach

- Increase awareness, knowledge, and understanding of RVCA services, programs and initiatives.
- Build effective relationships with municipal, provincial and federal levels of government as well as other stakeholders and partners.
- Maintain a positive, proactive relationship with watershed media to ensure a high level of accurate, comprehensive regional media coverage.
- Provide communication support through communication planning, media relations and plain language services.

- Distribute corporate information through annual reports, *Around the Rideau* newsletter, municipal information sheets, program brochures, displays, media releases, website, social media and public events/workshops.

GIS and Information Management

- Create and manage high-quality databases of watershed data and provide high-quality technical mapping to help staff make sound and informed watershed decisions.
- Support flood and hazard mapping studies, analysis and delineation as well as the development of catchment and subwatershed reports.
- Create tools to ensure the data is readily accessible to staff, consultants and the public.

Rideau Valley Conservation Foundation

- Support the RVCA in its conservation efforts by raising much-needed funds for conservation programs and services.
- Solicit donations from corporate and private donors, manage multiple special fundraising campaigns, apply for grants and administer compensation projects.
- Focus efforts on raising funds for land care, river care and conservation education.





QUESTIONS?

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