



## Authority Meeting Agenda - Amended

Thursday, May 15, 2025, 1:00 p.m.

Formosa Administrative Office

### 1. Land Acknowledgement

*We begin our meeting today by respectfully acknowledging the Anishinaabeg Nation, the Haudenosaunee, the Neutral, and the Petun peoples as the traditional keepers of this land. We are committed to moving forward in the spirit of reconciliation with First Nation, Métis, and Inuit peoples.*

### 2. Adoption of Agenda

*Recommendation: THAT the agenda for the Saugeen Valley Conservation Authority meeting, May 15, 2025, be adopted as presented.*

### 3. Declaration of Pecuniary Interest

### 4. Adoption of Minutes

#### 4.1 Authority meeting – March 20, 2025

*Recommendation: THAT the minutes of the Saugeen Valley Conservation Authority meeting, March 20, 2025, be adopted as presented.*

### 5. Staff Introductions

*Introduction to new Environmental Planning and Regulations staff.*

### 6. Matters Arising from the Minutes – none at this time.

### 7. New Business

#### Corporate Services

#### 7.1 GM-2025-05: SVCA Operational Plan – Erik Downing

#### 7.2 GM-2025-06: Program Report – Erik Downing

#### 7.3 Correspondence - none at this time

#### 7.4 COR-2025-13: 2024 Audited Financial Statements

*Recommendation: THAT the draft financial statements from Baker Tilly, SGB, LLP, be approved as presented.*

## **Environmental Planning and Regulations**

### **7.5 EPR-2025-05: Environmental Planning and Regulations Policies Manual - Matt Armstrong**

*Recommendation: THAT the Saugeen Valley Conservation Authority approve the updated draft Environmental Planning and Regulations Policies Manual and direct staff to begin using the manual.*

### **7.6 EPR-2025-06: Violations Report – Darren Kenny**

*To provide an update on the status of violations under Ontario Regulation 169/06, as amended and Ontario Regulation 41/24.*

### **7.7 EPR-2025-07: Request for Endorsement: Permits Issued – Matt Armstrong**

*Recommendation: THAT SVCA permit applications 25-026 to 25-046 as approved by staff, be endorsed by the SVCA Board of Directors.*

## **Forestry and Lands**

### **7.8 LAN-2025-02: Fencing at Durham Conservation Area – Donna Lacey**

### **7.9 LAN-2025-03: Future Management of Varney Conservation Area – Donna Lacey**

*Recommendation: THAT the SVCA Board of Directors approve the recommendation of the SVCA Property and Parks Committee; and FURTHER THAT staff be directed to proceed with Option \_\_\_\_\_.*

### **7.10 LAN-2025-04: Staff Provincial Offences Officer Designation – Donna Lacey**

*Recommendation: THAT SVCA Assistant Park Superintendent, Saugeen Bluffs, Mary Lyness and Lands Technician, Nicholas Kunkel be designated by the SVCA Board of Directors as Provincial Offences Officers for the purpose of enforcing Section 29 of the Conservation Authorities Act.*

## **8. Adjournment**

*Recommendation: THAT the meeting be adjourned.*

## **Public Notice:**

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## Saugeen Valley Conservation Authority

### Minutes – Board of Directors Meeting

Date: Thursday March 20, 2025, 1:00 PM

Location: 1078 Bruce Rd 12, Formosa, ON, N0G 1W0

Chair: Tom Hutchinson

Members present: Paul Allen, Larry Allison, Barbara Dobreen, Bud Halpin, Steve McCabe, Greg McLean, Dave Myette, Mike Niesen, Moiken Penner, Bill Stewart, Peter Whitten

Members absent: Kevin Eccles, Sue Paterson, Jennifer Prenger

Staff present: Adam Chalmers, Erik Downing, Janice Hagan, Donna Lacey, Don Moss, Nich Kunkel, Rita McGee, Jody Duncan, Matt Armstrong

The meeting was called to order at 1:03 PM.

**1. Land Acknowledgement** – read by Director Moiken Penner

*We begin our meeting today by respectfully acknowledging the Anishinaabeg Nation, the Haudenosaunee, the Neutral, and the Petun peoples as the traditional keepers of this land. We are committed to moving forward in the spirit of reconciliation with First Nations, Métis, and Inuit peoples.*

**2. Adoption of Agenda**

**Motion #G25-38**

Moved by Steve McCabe

Seconded by Bill Stewart

THAT the agenda for the Saugeen Valley Conservation Authority meeting, March 20, 2025, be adopted as amended.

**Carried**

**3. Declaration of Pecuniary Interest**

There were no declarations of pecuniary interest relative to any item on the agenda.

**4. Adoption of Minutes**

**4.1 Authority meeting – February 20, 2025**

**Motion #G25-39**

Moved by Paul Allen

Seconded by Greg McLean

THAT the minutes of the Saugeen Valley Conservation Authority meeting, February 20, 2025, be adopted as presented.

**Carried**

**5. Staff Introductions:**

New staff members were introduced to the Board, including a Lands Technician, a Forestry Technician, and the Water Resources Manager filling in for a leave.

**6. New Business**

**6.1 GM-2025-03: SVCA Operational Plan**

The GM/S-T presented the 2025 SVCA Workplan, noting the completion of several items. General Manager and Secretary-Treasurer Erik Downing noted that revisions will be made to remove day-to-day tasks and focus on strategic deliverables.

**6.2 COR-2025-05: Finance Report**

Finance Manager Adam Chalmers presented the financial report for the period ending November 2024. He advised that the audited financial statements for 2024 would be presented at the May Board meeting.

**6.3 GM-2025-04 Programs Report**

The Board received a comprehensive Programs Report outlining recent activity across departments. Key updates included delegations made to the councils of Brockton and West Grey, staff participation in Conservation Ontario training, and attendance at the Maitland Valley Conservation Authority Annual General Meeting. Corporate Services reported infrastructure improvements, notably the installation of a new accessible reception desk. In the Water Resources department, staff focused on fencing contracts, flood coordination, and the preparation of the 2024 Water Quality Report. Forestry and Lands staff undertook significant snow removal efforts, while Conservation Areas staff successfully hosted a number of public events. The report also noted the addition of new vehicles to the SVCA fleet and the posting of a contract position within the Environmental Planning and Regulations department.

**6.4 Executive Committee Minutes**

The minutes of the February 7<sup>th</sup>, 2025 Executive Committee Meeting were reviewed for information by the SVCA Board of Directors.

**6.5 Correspondence – none at this time**

**6.6 WR-2025-02 – Advancing Technologies to Improve Community Resiliency to Natural Hazards Report**

Flood Coordinator Jody Duncan reported that SVCA secured \$10,000 from the RBC Foundation's Tech for Nature program. The funding enabled installation of new stream gauge equipment to improve flood forecasting and drought monitoring. The equipment has supported seven watershed condition statements with no service interruptions to date.



**6.7 EPR – 2025-03: Permits Issued for Endorsement**

**Motion #G25-40**

Moved by Bud Halpin

Seconded by Steve McCabe

THAT SVCA permit applications from 25-018 to 25-025 as approved by staff, be endorsed.

**Carried**

**6.8 EPR-2025-04: 2024 Permitting Statistics**

Environmental Planning and Regulations Manager Matt Armstrong presented the 2024 Permit Timelines and Compliance Report. Between April and December 2024, SVCA issued 234 permits, meeting 100% of required timelines under O. Reg. 686/21. Average review time was 3.69 days. Permit review fees remain a vital source of departmental revenue.

**7. Adjournment**

With no further business to discuss, the meeting was adjourned at 2:17 PM, following a motion by Dave Myette and Moiken Penner.

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Tom Hutchinson  
Chair

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Janice Hagan  
Recording Secretary

## GM-2025-05: SVCA Operational Plan May 15, 2025

**Legend:** Text in **Red** indicates new or updated item

### All Departments

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Administration	2025 Annual Report		August 2025
Mapping Working Group	In Progress		December 2025
October 6, 2024, Formosa Lightning Response	Office Restored, Insurance Finalization		2025

### Department: Corporate Services

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Administration	Continue to develop and / or renew health and safety policies		Waiting on Workplace Culture Assessment Plan
Administration	Negotiate Category 2 Agreements with municipalities		Ongoing
Human Resources	Modernize SVCA's Personnel Policy		Waiting on Workplace Culture Assessment Plan
Human Resources	Code of Conduct		Waiting on Workplace Culture Assessment Plan
Human Resources	Volatile Client Plan		August 2025
Human Resources	Emergency Communication Plan		August 2025
GIS/IT	Critical Failure Information Technology Plan		May 2025
Administration	Public Consultation: <i>Accessibility for Ontarians with Disabilities Act</i>		October 2025
Administration	Professional Development Strategy Planning		<b>Workplace Culture Review Response</b>

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Administration	2024 Audit		May 2025

### Completed Items:

Significant Activity	Operational Task	Completion Date	Target Completion Date
Administration	Annual 2023 SVCA Report		Complete
Administration	Accessibility policy development		Complete
Finance	2023 Audit		Complete
Administration	Document Retention policy		Complete
Administration	Compensation policy		Complete
Administration	Revenue Generation Strategy		Complete
Human Resources	Job Descriptions for Market Compensation Review		Complete
Administration	Office Reopening – Lightning Strike	January 13, 2025	Complete
Administration	Submission of MFIPPA reporting for 2024	March 2025	Complete
Content Management System	In Progress	April 2025	Officially in initial use, Beta available to staff
2023 Performance Evaluations	In Progress	April 2025	

### Department: Environmental Planning and Regulations

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Section 28 of <i>Conservation Authorities Act</i>	Continue implementation of the Violations Strategy to resolve outstanding violations	Ongoing	Ongoing
Environmental Planning	Completion of Environmental Planning		May 2025

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
	and Regulations Policy Manual Revisions		
Environmental Planning	Update Planning Service Agreements to reflect Bill 23 changes		2025
General	Board of Directors Hearing Training – Section 28	July 2025	June 2025
General	Amish and Mennonite Outreach Strategy Planning		May 2025
General	Professional Development Strategy Planning		Workplace Culture Review Response

#### Completed Items:

Significant Activity	Operational Task	Completion Date	Target Completion Date
General	Website updates		Complete
General	Revise complete application checklist and post online		Complete
Regulatory Mapping	Update regulation limits on online mapping		Complete
General	Landowner Recognition Program Brainstorming	May 2025	May 2025

#### Department: Water Resources

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Water and Erosion Control Infrastructure	Complete database of existing easements and identify additional easement requirements, if needed		Ongoing
Water and Erosion Control Infrastructure	Confirmation of infrastructure ownership		Ongoing

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Flood Forecasting and Warning	Flood watch training		Internal – Complete External – Ongoing
Water and Erosion Control Infrastructure	Apply for Water and Erosion Control Infrastructure (WECI) funding		Complete, prepare for next intake/administer projects
Ontario Low Water Response	Creation of Low Water Response Committee		April 2025
Water Quality	Completion of SVCA Water Quality Report		Presentations to be booked
Flood Forecasting and Warning	Launch “Flood Watch” program for public involvement, complete with information sessions for municipal partners		June 2025
General	Working In and Around Water Policy		May 2025
General	Professional Development Strategy Planning		Workplace Culture Review Response
General	Risk Evaluation Planning		June 2025
Water and Erosion Control Infrastructure	Complete an operational plan for SVCA structures		Ongoing
Water and Erosion Control Infrastructure	Complete draft 10-year capital working plan for SVCA water and erosion control structures that were inspected in 2022, 2023		June 2025

### Completed Items:

Significant Activity	Operational Task	Completion Date	Target Completion Date
General	Watershed-based Resource Management Strategy		Complete
Water and Erosion Control	Asset Management plan for SVCA		Complete

Significant Activity	Operational Task	Completion Date	Target Completion Date
Infrastructure	structures		
NWMO Special Project	NWMO Environmental Monitoring Baseline Program years 1 through 3 final reports		Complete
Water and Erosion Control Infrastructure	Ice management plan for SVCA watershed		Complete

### Department: Forestry and Lands

Significant Activity	Operational Task	Updated Target Completion Date	Target Completion Date
Lands Management	Varney Pond – Working with regulatory agencies to provide necessary information to support the application submitted		Ongoing
General	Professional Development Strategy Planning		Workplace Culture Review Response
Forestry	Forest Inventory		December 2025
Forestry	20 Year Management Plan		December 2025

### Completed Items

Significant Activity	Operational Task	Completion Date	Target Completion Date
Lands Management	Kincardine Cross Country Ski agreement		Complete
Lands Management	Land Acquisition and Disposition Policies		Complete
Lands Management	Ash hazard tree removal from Stoney Island properties		Complete
Lands Management	Conservation Areas Strategy for SVCA		Complete
Lands Management	Conservation Lands Inventory for SVCA		Complete

## Programs Report # GM-2025-06

May 15, 2025

### General Manager/ Secretary-Treasurer's (GM/S-T) Report

March 7, 2025 – SVCA Agricultural Outreach Committee Meeting participated in (virtual due to weather).

March 7, 2025 – Conservation Ontario Training Session participated in regarding government relations and messaging (virtual). Important to bring clear message and ask when meeting with government, from a place they can help from (aligning with mandate etc.).

March 18, 2025 – West Grey Council delegation – FHIMP Mapping project, Durham Creek presentation.

March 21, 2025 – Meetings with West Grey staff ongoing for Durham Upper Dam/Frazil Ice planning (virtual). SVCA supporting Phase 2 and 3 preparation for implementation upon confirmation from council of interest.

March 22, 2025 – Bruce/Grey Federation of Agriculture Politicians Day attended with Manager of Environmental Planning and Regulations. Introduction of GM/41/24 Regulation presented.

March 25-27, 2025 – Advance Leadership Management program completed (virtual). Level 2 completed.

March 28, 2025 – Source Protection Committee Meeting attended at Grey Sauble Conservation Authority Office.

April 6, 2025 – Healthy Lake Huron Steering Committee Meeting participated in (virtual). SVCA involved with steering committee and technical committee for this group.

April 14, 2025 – Conservation Ontario Annual General Meeting attended. Elections as well as new provincial government term discussed.

April 23, 2025 – Durham Campground hosted a staff event and property tour.

April 25, 2025 – MPP Paul Vickers meeting with SVCA Chair and GM/S-T. SVCA discussed as well as ideas for further SVCA collaboration with agricultural community.

April 26, 2025 – SVCA Arbor Day Tree sale occurred at Sulphur Spring Conservation Area with public showing up as early as 6am to get best pick of trees for sale (8am start time)!

April 28, 2025 – Conservation Ontario meeting to discuss Provincial Legislature Throne Speech and legislation already tabled or proposed.

## Corporate Services

Corporate Services continues to support key administrative and financial functions across the organization, with efforts this month focused on both seasonal priorities and ongoing strategic deliverables. The team remains responsive and adaptable, as another staff member has recently taken a leave of absence. Tasks continue to be redistributed across remaining team members to ensure continuity of service.

As campground season approaches, Corporate Services, particularly the accounting and communications staff, have been actively involved in preparing for openings. This includes supporting marketing efforts, booking logistics, and other coordination to ensure a smooth launch for the 2025 camping season.

The annual financial audit is nearing completion, with Corporate Services working closely with auditors to finalize all outstanding requirements. Staff have maintained focus on documentation and reconciliation efforts to ensure a successful outcome.

Summer student positions for both the Environmental Planning & Regulations (EPR) and Water Resources departments were posted this past month, with recruitment underway to support expanded operational capacity over the summer.

Signage remains a key priority for the department, particularly in coordination with ongoing preparations for SVCA's 75th anniversary. Corporate Services continues to work with all departments to develop and implement consistent, accessible, and visible signage across properties and programs.

Year-end Section 39 reporting to the Ministry of Natural Resources and Forestry has been successfully completed. Year-end Water and Erosion Control Infrastructure (WECI) reporting through the TPON system, in collaboration with the Capital Water Infrastructure Coordinator has also been completed.

Corporate Services remains committed to supporting all departments through timely communication, sound financial management, IT and GIS services, and administrative support.



## January 1, 2025 – May 1, 2025 Communications Metrics

From January through April, the Communications team at Saugeen Valley Conservation Authority (SVCA) continued to drive awareness and engagement across the watershed through proactive campaigns, public outreach, and digital media efforts.

Key highlights include:

- Promotion of new and returning programs, including the Explore SVCA initiative and the 2025 Arbour Day Tree Sale.
- Support for hiring campaigns, flood forecasting notices, and public land use compliance.
- Development of accessible materials, including web content and outreach graphics.
- Event promotion for winter camping, Candlelit Night Hike, and River Run Weekend.

### Social Media Metrics

Between January 1 and May 1, 2025, SVCA maintained strong performance across Facebook, Instagram, and Twitter/X:

#### ***Overall Reach and Views:***

- Total Views: 901,700
- Reach: 233,900
- Impressions: 833,285
- Total Followers: 13,180

#### ***Facebook:***

On Facebook, SVCA achieved a page reach of 675,330 and generated 777,973 impressions between January and May 2025, with 586 new followers added during the period. The most viewed content included the Candlelit Night Hike – Snow Moon Edition with 83.3K views, followed by the 2025 Planting Season: Black Walnut Highlight (52.3K), the Explore SVCA 75th Anniversary Launch (49.1K), the River Run Weekend Promotion (41.9K), and the Winter Camping Feature (30.9K).

#### ***Instagram:***

On Instagram, SVCA gained 113 new followers during the reporting period, with a total reach of 32,434 and 55,312 impressions. Top-performing posts included the Valentine's Day cartoon featuring the message "Preserve This Love Forever," the Candlelit Night Hike reminder, and a muddy trail photo highlighting the damage caused by off-road vehicle use.

#### ***Twitter/X:***

On Twitter/X, SVCA content received 2,631 impressions, with notable engagement rates from key posts including the Flood Outlook Alert issued on March 10 (10.77%), a reminder about planning and permitting requirements (8.33%), and the Arbour Day Tree Sale promotion (7.95%). The platform experienced a net loss of 18 followers during this time. SVCA's modest drop in Twitter/X followers aligns with the platform's overall decline, as millions of users worldwide have left or reduced their activity. This broader shift has impacted engagement across many public-sector accounts.

### Website Metrics

SVCA's website continued to be a valuable platform for engaging the public:

- Unique Visitors: 23,000
- Interactions: Over 199,000 interactions, primarily from mobile devices (58%).

***Top Pages:***

- Arbour Day Tree Sale
- Saugeen Valley Conservation Authority homepage
- Saugeen Bluffs and Durham Conservation Area pages
- Camping-related information and reservations

***Traffic Sources:***

- Organic Search: 1,600 sessions
- Direct Visits: 479 sessions
- Social Referrals: 205 sessions

***User Geography:***

- Predominantly Canadian visitors (89%), with contributions from the U.S., Ireland, Sweden and China.
- Top cities: Toronto (4,818), Port Elgin (688), London (665), Hanover (525), and Kitchener (513).

## **Summary**

From January to May 2025, SVCA's Communications saw steady growth across social media and the website, with strong public engagement in seasonal events, outreach campaigns, and conservation messaging. Digital traffic increased, with mobile users continuing to lead.

## **Forestry and Lands**

Forestry and Lands staff have been working on inventorying our forests in preparation for our Forest Management Plan update. This work will continue throughout the year. A candidate for the second Forestry Technician has a start date of late April.

The new offices are still waiting for windows and doors to move forward with the completion of the project.

Department staff worked along with others to facilitate the 32<sup>nd</sup> annual Grey Bruce Woodlot Conference. This conference attracts more than a hundred woodlot owners to gather more information on forest related issues.

The Durham campground closed for the end of the winter season in late March and has begun preparing for the warm camping season.

It is worth mentioning again that Saugeen Bluffs CA staff have planned their Trails and Tunes and River Run Weekend events again for 2025. These events have been very well received.

In the fleet, the snowmobile trailer and one of the two snowmobiles were sold through GovDeals. The second snowmobile will be put up for sale again in the upcoming fall/winter hoping to gain, at a minimum, the reserve bid.

Planning for the upcoming tree planting season is going well; staff are looking forward to moving forward with the projects.

A community tree plant is planned for Stoney Island. Staff are hoping that there will be a good turnout of community members to help plant over 1000 trees within the former ash forest areas. A wide diversity of tree species will be planted to encourage increased biodiversity and to avoid a situation like the unavoidable ash removal in the future.

## **Environmental Planning & Regulations (EPR)**

### **Content Management System**

CA Core, EPR's new content management system that is managed in part by Central Lake Ontario CA, was launched on April 5<sup>th</sup>. CA Core organizes the department's thousands of planning and regulations files, improves workflow within the department, and allows for future integration with other departments. EPR staff are actively learning/ working with the new system. Utility for other departments will be explored after EPR staff gain more experience.

### **Policies Manual Update**

Over 200 comments were received from stakeholders during the consultation period, which closed February 28, 2025. Staff have consolidated, reviewed, and incorporated comments into a new draft version of the manual for Authority consideration at the May Board meeting.

### **Staffing**

EPR is fully staffed after recently hiring three contracts, including Emmett Bridges (Regulations Officer), Kelly Ray (Regulations Officer), and Jennifer Mead (Resources Information Technician).

### **Durham Creek Floodplain Mapping Presentation**

On March 18, 2025, EPR Manager presented the 2023/2024 Durham Creek Floodplain Mapping project to West Grey Council.

### **Grey and Bruce Federations of Agriculture Politicians Meeting**

On March 22, 2025, the EPR Manager and SVCA General Manager attended the Grey and Bruce Federations of Agriculture Politicians Meeting and made a presentation on the 2024 changes to the Regulation and the CA Act.

### **Shoreline / Littoral Cell Committee Meeting**

On March 26, 2025, the EPR Manager attended the Southern Lake Huron Littoral Cell Committee Meeting in Goderich with Maitland Valley CA staff, coastal scientists and other stakeholders to learn about shoreline processes and on-going studies in southern Lake Huron.

## **Level 1 Provincial Offences Officer Training**

On April 9, 2025, the Regulations Coordinator assisted with Section 28 training scenarios in Orillia.

## **Meeting with Huron-Kinloss Municipal Staff**

On April 28, 2025, the EPR Manager and coordinators met in Ripley with several Huron-Kinloss Municipal staff that work in the building, public works, and environmental services departments to discuss upcoming projects in Huron-Kinloss, EPR's process for reviewing various file types, EPR mapping, and general relationship-building.

## **Water Resources**

The Water Resources department has commenced projects scheduled for 2025. The draft Category 2 agreement for Arran-Elderslie was adjusted based on additional information requested and forwarded for their review. The draft Durham Upper Dam Phase 2 and 3 Class EA RFP was adjusted to include a frazil ice mitigation strategy as part of the Phase 2 work and the Environmental Inventory tasks have been split into both phases of the assignment. All field reports during frazil ice contractor response and weather data has been consolidated into one folder to be provided to the successful bidder on the assignment. The draft RFP document has been forwarded to West Grey staff for review prior to posting the assignment for bidding.

The draft document for Working In and Around Water Policy has been adjusted but will be edited to be consistent with the draft updated Health and Safety Handbook document recently provided by Ward Uptigrove.

Water Resources staff have been assisting our Maintenance staff respond to requests from MNR for information to complete an assessment of the operations of their dams. SVCA provides maintenance on the middle dam in Durham owned by MNR. Their consultant has also requested any hydrotechnical information as well as frazil ice response maintenance activities.

A new initiative being considered involves working on a predictive tool to assist our Flood Forecasting Section. This tool would be developed from the years of data that have been collected. It would incorporate simple hydrologic principles that are similar to the ones found inside the routines in the more complex expensive model packages that are available but without the expense.

## **Capital Projects**

Last year's WECl cycle was completed on March 31<sup>st</sup>, 2025, with the safety fencing at Glenelg Dam, Durham Lower Dam, Sulphur Spring Dam also including a new grate, and Neustadt safety signage being completed/ordered. Staff have reached out to municipalities regarding a new funding source provided by the province that requires municipalities to be the primary applicant. SVCA is happy to work with municipalities for any projects they wish to pursue under the Health and Safety Water Stream funding source.

Staff are working towards starting capital projects that have been approved by WECl for the current WECl cycle funding including Safety Fencing and signage at Mount Forest Dam, public safety plan for

Hanover Dam, and safety signage for various sites. Staff are continuing to work on standardizing operating procedures for infrastructure maintenance and works. Staff are continuing to follow inspection requirements for the various structures across the Saugeen Valley Watershed and Category 2 agreements responsibilities are underway.

### **Request for Capital Projects Proposals and Quotations (RFPs and RFQs)**

SVCA staff have issued or working on the following RFPs:

- Public Safety Plan for Hanover Dam RFQ – To identify and propose solutions to improve safety at the Hanover Dam. The RFQ is currently being reviewed and proposed to be posted for bids at the beginning of May and awarding at the end of May.

### **Flood Forecasting and Warning (FFW)**

Numerous flood statements have been issued since the last update to the Board of Directors, as summarized below:

- On March 10<sup>th</sup>, a Watershed Condition Statement – Flood Outlook statement was issued for the entire watershed, advising of ongoing warm temperatures, forecasted rain, and the potential for ice breakup and jamming.
- On March 17<sup>th</sup>, a combined Watershed Condition Statement – Water Safety and Flood Watch statement were issued due to unsafe conditions around watercourses throughout the watershed, and a continued increase in water levels in specific locations. The Flood Watch was issued for the municipalities of Arran-Elderslie and Brockton, while the Water Safety statement was issued for the remainder of the watershed.
- On March 20<sup>th</sup>, the Flood Watch previously issued for Arran-Elderslie and Brockton was downgraded to a Water Safety statement as water levels in the Main Saugeen River had begun to decline. The Water Safety statement previously issued for the rest of the watershed remained in effect.
- On March 28<sup>th</sup>, a Watershed Condition Statement – Flood Outlook was issued due to saturated soil conditions and forecasts calling for 20 to 60 mm of rain.
- On April 1<sup>st</sup>, a Flood Watch statement was issued as the watershed had already received 45 mm of rain over the past several days, and Environment Canada was advising of an additional 20 to 40 mm.
- On April 4<sup>th</sup>, a Watershed Condition Statement – Water Safety was issued as water levels throughout the watershed had peaked and were starting to decline, though continued to pose a risk to public safety.

### **Hydrometric Network**

Two stream gauge stations used for the NWMO's Environmental Media Baseline Program were generously donated by the organization to SVCA's Flood Forecasting and Warning program. The

stations have been removed from their locations on the Teeswater River and will be integrated into SVCA's data collection network, further improving coverage throughout the watershed.

### **Funding Applications**

- SVCA is pleased to announce that funding was received from the federal Canada Summer Jobs program, to support a summer student position with the Flood Forecasting and Warning program and Water Resources Department. At the time of writing, staff are in the process of hiring for the position.
- In October 2024, SVCA submitted an application to the provincial Community Emergency Preparedness Grant to support the replacement of an inactive weather station near Bells Lake. While the funding was, unfortunately, not received, SVCA staff will continue to seek grant opportunities to improve the Flood Forecasting and Warning program.

### **Past Meetings**

On April 8<sup>th</sup>, SVCA staff attended the Southwestern Ontario Flood Forecasting Alliance (SWOFFA) meeting at Ausable Bayfield Conservation Authority. Notable discussion included concerns about funding cuts to the National Oceanic and Atmospheric Administration potentially comprising data transmissions if it's decided they will no longer provide this service through their satellite network. Conservation Authority representatives have been in discussion about this concern with provincial and federal agencies, and SVCA staff have discussed alternatives with equipment manufacturers should this occur.

### **Water Quality (WQ)**

Water quality staff continue to work on data analysis and writing of the 2024 Annual Water Quality Report. Benthic macroinvertebrate sampling for 2025 will take place this month, this data will be used in annual reporting to enhance the understanding of water quality in our watershed. Spring groundwater sampling for the Provincial Groundwater Monitoring Network will be completed this month. Surface water sampling for both internal and provincial programs is ongoing and will be completed monthly through to November.

**SAUGEEN VALLEY  
CONSERVATION AUTHORITY**

**FINANCIAL REPORT**

**DECEMBER 31, 2024**

**DRAFT FOR DISCUSSION**

**Reviewed with and approved by:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Date** \_\_\_\_\_

# SAUGEEN VALLEY CONSERVATION AUTHORITY

DECEMBER 31, 2024

## CONTENTS

Management's Responsibility for the Financial Report	1
Independent Auditor's Report	2
Statement of Financial Position	4
Statement of Operations	5
Statement of Change in Net Financial Assets	6
Schedule of Revenue	7
Schedule of Expenses	8
Schedule of Accumulated Surplus	9
Statement of Cash Flow	10
Notes to the Financial Statements	11

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# SAUGEEN VALLEY CONSERVATION AUTHORITY

## MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL REPORT

The accompanying financial statements of the Saugeen Valley Conservation Authority (the "Authority") are the responsibility of the Authority's management and have been prepared in accordance with Canadian public sector accounting standards established by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada, as described in Note 1 to the financial statements.

The preparation of financial statements necessarily involves the use of estimates based on management's judgment, particularly when transactions affecting the current accounting period cannot be finalized with certainty until future periods.

The Authority's management maintains a system of internal controls designed to provide reasonable assurance that assets are safeguarded, transactions are properly authorized and recorded (in accordance with Canadian public sector accounting standards established by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada), and reliable financial information is available on a timely basis for preparation of the financial statements. These systems are monitored and evaluated by management. The Board meets with management and the external auditor to review the financial statements and discuss any significant financial reporting or internal control matters prior to their approval of the financial statements.

The financial statements have been audited by Baker Tilly SGB LLP, independent external auditor appointed by the Authority. The accompanying Independent Auditor's Report outlines their responsibilities, the scope of their examination and their opinion on the Authority's financial statements.

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**General Manager/Secretary-Treasurer**

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**Corporate Services Manager**

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**BAKER TILLY SGB LLP**  
**CHARTERED PROFESSIONAL ACCOUNTANTS**

**INDEPENDENT AUDITOR'S REPORT**

To the Members of **Saugeen Valley Conservation Authority**:

**Opinion**

We have audited the financial statements of Saugeen Valley Conservation Authority (the Authority), which comprise the statement of financial position as at December 31, 2024 and the statements of operations and changes in net assets and cash flow for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Authority as at December 31, 2024, and results of its operations and its cash flows for the year then ended in accordance with Canadian public sector accounting standards.

**Basis for Opinion**

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Authority in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

**Responsibilities of Management and Those Charged with Governance for the Financial Statements**

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Authority's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Authority or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Authority's financial reporting process.

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**BAKER TILLY SGB LLP**  
**CHARTERED PROFESSIONAL ACCOUNTANTS**

**Auditor's Responsibilities for the Audit of the Financial Statements**

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Authority's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Authority to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



**BAKER TILLY SGB LLP**  
**CHARTERED PROFESSIONAL ACCOUNTANTS**  
**LICENSED PUBLIC ACCOUNTANTS**  
Walkerton, Ontario

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# SAUGEE VALLEY CONSERVATION AUTHORITY

## STATEMENT OF FINANCIAL POSITION AS AT DECEMBER 31

	2024	2023
	\$	\$
<b>Financial assets</b>		
Cash and cash equivalents (Note 2)	3,274,487	1,007,762
Accounts receivable (Note 4)	686,589	937,151
Temporary investments (Note 3)	1,458,261	2,926,457
	<b>5,419,337</b>	<b>4,871,370</b>
<b>Liabilities</b>		
Accounts payable and accrued liabilities	544,166	678,086
Deferred revenue (Note 5)	597,637	570,567
	<b>1,141,803</b>	<b>1,248,653</b>
Net financial assets	<b>4,277,534</b>	<b>3,622,717</b>
<b>Non-financial assets</b>		
Tangible capital assets (Note 6)	9,732,573	9,906,102
Prepaid expenses	42,524	55,102
	<b>9,775,097</b>	<b>9,961,204</b>
<b>Accumulated surplus (Page 9)</b>	<b>14,052,631</b>	<b>13,583,921</b>

Approved \_\_\_\_\_ Director

\_\_\_\_\_ Director

The accompanying notes are an integral part of  
these financial statements

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## STATEMENT OF OPERATIONS FOR THE YEAR ENDED DECEMBER 31

	Budget 2024	Actual 2024	Actual 2023
	\$ (Note 9)	\$	\$
<b>Revenue (Page 7)</b>			
Government transfers and special programs	227,900	<b>187,673</b>	407,563
Municipal levies	2,681,484	<b>2,632,430</b>	2,559,766
Authority generated	1,997,276	<b>1,637,747</b>	1,857,124
Other	480,900	<b>1,665,163</b>	1,337,610
	5,387,560	<b>6,123,013</b>	6,162,063
<b>Expenses (Page 8)</b>	5,627,415	<b>5,654,303</b>	6,255,526
<b>Annual surplus (deficit)</b>	(239,855)	<b>468,710</b>	(93,463)
<b>Accumulated surplus, beginning of year</b>		<b>13,583,921</b>	13,677,384
<b>Accumulated surplus, end of the year (Page 9)</b>		<b>14,052,631</b>	13,583,921

The accompanying notes are an integral part of  
these financial statements

# SAUGEE VALLEY CONSERVATION AUTHORITY

## STATEMENT OF CHANGE IN NET FINANCIAL ASSETS FOR THE YEAR ENDED DECEMBER 31

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
	(Note 9)		
<b>Annual surplus (deficit)</b>	(239,855)	<b>468,710</b>	(93,463)
Acquisition of tangible capital assets	-	(108,677)	(104,847)
Amortization of tangible capital assets	-	279,706	305,526
Loss/(Gain) on disposal of tangible capital assets	-	(4,570)	-
Proceeds on disposal of tangible capital assets	-	7,070	-
Change in prepaid expenses	-	12,578	(18,094)
Change in net financial assets	(239,855)	<b>654,817</b>	89,122
Net financial assets, beginning of year		<b>3,622,717</b>	3,533,595
<b>Net financial assets, end of year</b>		<b>4,277,534</b>	3,622,717

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# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE OF REVENUE FOR THE YEAR ENDED DECEMBER 31

	Budget 2024 \$ (Note 9)	Actual 2024 \$	Actual 2023 \$
<b>Revenues</b>			
<b>Government Transfers</b>			
Program operations	81,400	<b>81,396</b>	88,379
Capital programs	146,500	<b>106,277</b>	319,184
	227,900	<b>187,673</b>	407,563
<b>Municipal Levies (Schedule 7)</b>			
General levies	2,287,472	<b>2,287,472</b>	2,071,216
Special levies	250,502	<b>244,549</b>	488,550
Cost Apportioning	143,510	<b>100,409</b>	-
	2,681,484	<b>2,632,430</b>	2,559,766
<b>Authority Generated</b>			
Agricultural lands	18,200	<b>2,900</b>	16,799
Education program fees	-	-	31,446
Saugeen forestry service	298,000	<b>152,990</b>	320,618
Planning and regulation fees	727,676	<b>493,894</b>	589,776
Saugeen parks & land management (Schedule 4)	953,400	<b>987,963</b>	898,485
	1,997,276	<b>1,637,747</b>	1,857,124
<b>Other</b>			
Interest earned	180,000	<b>225,895</b>	204,022
Vehicle and equipment recoveries (Schedule 6)	184,000	<b>137,759</b>	156,956
Donation revenue	-	<b>(504)</b>	2,500
Miscellaneous operations	116,500	<b>248,728</b>	178,839
Gain/(Loss) on disposal of tangible capital assets (Schedule 6)	-	<b>4,570</b>	-
Administration overhead	-	-	119,121
Special programs (Schedule 5)	-	<b>1,048,715</b>	676,172
Stream gauge maintenance contracts	400	-	-
	480,900	<b>1,665,163</b>	1,337,610
<b>Total Revenues</b>	<b>5,387,560</b>	<b>6,123,013</b>	<b>6,162,063</b>

The accompanying notes are an integral part of  
these financial statements

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE OF EXPENSES FOR THE YEAR ENDED DECEMBER 31

	Budget 2024	Actual 2024	Actual 2023
	\$ (Note 9)	\$	\$
<b>Expenses</b>			
Administration (Schedule 1)	809,800	<b>835,758</b>	773,657
Program operations (Schedule 2)	2,878,250	<b>2,334,853</b>	2,534,696
Repairs and maintenance (Schedule 3)	223,740	<b>156,066</b>	705,485
Saugeen parks & land management (Schedule 4)	1,493,525	<b>1,406,832</b>	1,432,226
Vehicles and equipment (Schedule 6)	209,000	<b>125,222</b>	141,789
Agricultural lands	13,100	<b>3,705</b>	1,713
Other expenses	-	<b>4,939</b>	6,565
	5,627,415	<b>4,867,375</b>	5,596,131
Amortization (Note 6)	-	<b>279,706</b>	305,526
	5,627,415	<b>5,147,081</b>	5,901,657
Total Special Program Expenses (Schedule 5)	-	<b>507,222</b>	353,869
<b>Total Expenses</b>	5,627,415	<b>5,654,303</b>	6,255,526

The accompanying notes are an integral part of  
these financial statements



# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE OF ACCUMULATED SURPLUS FOR THE YEAR ENDED DECEMBER 31, 2024

	Opening Balance	From Operations	To Operations	Closing Balance
	\$	\$	\$	\$
<b>Reserves</b>				
Agricultural Lands	50,662	3,112	805	52,969
Computer Upgrades	44,756	2,749	-	47,505
Environmental Planning	53,063	3,259	129,636	(73,314)
Forest Management	464,129	57,003	-	521,132
House Repairs	46,154	2,835	-	48,989
Kincardine Maintenance	144,721	8,889	22,606	131,004
Land Management	75,060	4,610	-	79,670
Legal Fees	19,914	1,223	-	21,137
LTD/OMERS/Benefits	23,618	1,451	-	25,069
Office Equipment	28,194	1,732	-	29,926
Ortho Imagery	30,532	5,875	-	36,407
Property Acquisition	147,678	9,070	-	156,748
Resource Centre	5,353	329	-	5,682
Retiree Benefits	27,474	1,688	5,128	24,034
Saugeen Parks	821,495	98,852	120,584	799,763
Self Insured Damaged	30,301	1,861	-	32,162
Short Term Disability	34,791	2,137	-	36,928
Stewardship	79,198	4,864	-	84,062
Vehicle Replacement	32,243	21,588	23,405	30,426
Water Management	685,317	590,819	-	1,276,136
Wetland Acquisition	63,927	3,926	-	67,853
Working Capital	769,239	293,178	176,647	885,770
	3,677,819	1,121,050	478,811	4,320,058
Tangible Capital Assets	9,906,102	108,677	282,206	9,732,573
	13,583,921	1,229,727	761,017	14,052,631

The accompanying notes are an integral part of  
these financial statements

# SAUGEE VALLEY CONSERVATION AUTHORITY

## STATEMENT OF CASH FLOW FOR THE YEAR ENDED DECEMBER 31

	2024	2023
	\$	\$
<b>Cash flows from (for):</b>		
<b>Operating activities</b>		
Annual surplus (deficit)	468,710	(93,463)
Non-cash items:		
Amortization of tangible capital assets	279,706	305,526
Loss/(Gain) on disposal of tangible capital assets	(4,570)	-
	743,846	212,063
Changes in non-cash working capital balances (Note 11)	75,275	67,730
<b>Net change in cash from operations</b>	<b>819,121</b>	<b>279,793</b>
<b>Capital activities</b>		
Acquisition of tangible capital assets	(108,677)	(104,847)
Proceeds on disposal of tangible capital assets	7,070	-
<b>Investing activities</b>		
Proceeds on sale of investments	1,650,793	-
Acquisition of investments	(182,598)	(112,169)
<b>Net change in cash position</b>	<b>2,185,709</b>	<b>62,777</b>
<b>Cash and cash equivalents, beginning of year</b>	<b>1,007,762</b>	<b>944,985</b>
<b>Cash and cash equivalents, end of year</b>	<b>3,193,471</b>	<b>1,007,762</b>

The accompanying notes are an integral part of  
these financial statements

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### Nature of Operations

The Saugeen Valley Conservation Authority (the "Authority") is established under the Conservation Authorities Act of Ontario to further the conservation, restoration, development and management of natural resources, other than gas, oil, coal and minerals, for the watersheds within its area of jurisdiction. The watersheds include areas in the Municipalities of Arran-Elderslie, Brockton, Kincardine, South Bruce, Grey Highlands, Morris-Turnberry and West Grey, the Townships of Huron-Kinloss, Chatsworth, Southgate, Howick, and North Wellington, and the Towns of Saugeen Shores, Hanover, and Minto.

The Authority is a registered charity and is exempt from income taxes.

### 1. Summary of Significant Accounting Policies

The financial statements have been prepared by the management of the Authority in accordance with Canadian generally accepted accounting principles for organizations operating in the local government sector as recommended by the Public Sector Accounting Board of The Chartered Professional Accountants of Canada.

The focus of PSAB financial statements is on the financial position of the Authority and the changes thereto. The statement of financial position includes all of the assets and liabilities of the Authority. Financial assets are those assets which could provide resources to discharge existing liabilities or finance future operations. Accumulated surplus represents the financial position and is the difference between assets and liabilities. This provides information about the Authority's overall future revenue requirements and its ability to finance activities and meet its obligations. Significant aspects of the accounting policies adopted by the Authority are as follows:

#### (a) Basis of Accounting

Sources of revenue and expenses are reported on the accrual basis of accounting. The accrual basis of accounting recognizes revenues as they become available and measurable. Expenses are recognized as they are incurred and measurable as a result of receipt of goods or services and the creation of a legal obligation to pay.

#### (b) Revenue Recognition

Government transfers are recognized in the financial statements in the period in which events giving rise to the transfer occur, providing the transfers are authorized, any eligibility criteria have been met and reasonable estimates of the amount can be made.

General and special municipal levies are recognized as revenue when the amounts are levied on the municipalities.

Authority generated revenue and special program revenue is recognized when the price is fixed or determinable, collectability is reasonably assured and services are provided to customers.

Other revenues are recognized on an accrual basis.

#### (c) Deferred Revenue

Revenue restricted by legislation, regulation, or agreement and not available for Authority purposes is reported as deferred revenue on the statement of financial position. The revenue is reported on the statement of operations in the year in which it is used for the specified purpose.

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 1. Summary of Significant Accounting Policies (continued)

#### (d) Internally Restricted Surplus

Appropriations are made from operations to reserves for future expenses and contingencies for such amounts as are deemed appropriate, and upon approval of the Authority members.

#### (e) Tangible Capital Assets

Tangible capital assets are recorded at cost, which includes all amounts that are directly attributable to acquisition, construction, development or betterment of the asset. Cost includes overheads directly attributable to construction and development.

Amortization is reflected on a declining balance basis over the estimated useful life of the assets at the following amortization rates:

Buildings	5%
Conservation Areas	5%
Erosion and Flood Control	5%
Equipment	15%
Floodwarning Equipment	5%
Vehicles	30%
Information Technology	3 year straight-line

Contributed tangible capital assets are recognized as assets and revenue at fair value at the time they are received.

#### (f) Classification of Expenses

To achieve consistency of reporting by the Conservation Authorities in Ontario, expenses are reported to follow the classifications set up by the Ministry of Natural Resources and Forestry. These are as follows:

General Administration expenses include those associated with head office functions other than technical staff and associated programs.

Program Operation expenses include technical and program operations support staff, operations and maintenance of water control structures, forest management and expenses at Saugeen Parks.

Other expenses include repairs and maintenance, vehicles and equipment, agricultural land expenses, property management, special employment projects, motor pool, etc.

#### (g) Vehicles and Equipment

The Authority operates a motor pool of vehicles and equipment. Internal charges for the use of vehicles and equipment are made to the various projects of the Authority based on an hourly or distance travelled rate, which is designed to recover all costs of operating the pool including replacement of equipment.

These internal charges are included in the appropriate expense classifications.

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 1. Summary of Significant Accounting Policies (continued)

#### (h) Use of Estimates

The preparation of financial statements in accordance with Canadian generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements, and the reported amounts of revenues and expenses during the reporting period. The principle estimates used in the preparation of these financial statements are the determination of the estimated useful life of tangible capital assets. Actual results could differ from management's best estimates as additional information becomes available in the future.

#### (i) Cash and Cash Equivalents

Cash and cash equivalents include cash on deposit, short-term deposits with a maturity of three months or less at acquisition and temporary bank overdrafts which form an integral part of the Authority's cash management.

#### (j) Pension Plan

The Authority offers a pension plan for its full-time employees through the Ontario Municipal Employee Retirement System ("OMERS"). OMERS is a multi-employer, contributory, public sector pension fund established for employees of municipalities, local boards and school boards in Ontario. Participating employers and employees are required to make plan contributions based on participating employees' contributory earnings. The Authority accounts for its participation in OMERS as a defined contribution plan and recognizes the expense related to this plan as contributions are made, even though OMERS is itself a defined benefit plan.

#### (k) Financial Instruments

The financial instruments of the Authority consist of cash and cash equivalents, accounts receivable, investments, and accounts payable. All financial instruments are recognized at cost, amortized cost, or fair value.

Cash and cash equivalents are recognized at cost. Accounts receivable, accounts payable and deferred revenue are recognized at amortized cost.

Investments include guaranteed investment certificates (GICs). Investments are subsequently recorded at cost or amortized cost unless management has elected to carry the investments at fair value. Management has elected to record all investments at cost which approximates amortized cost.

For financial instruments measured using amortized cost, the effective interest rate method is used to determine interest revenue or expense. Transaction costs are a component of cost for financial instruments measured at cost or amortized cost.

Unrealized gains and losses from the change in fair value of these financial instruments are reflected in the statement of remeasurement gains and losses until disposition. When the asset is sold, the unrealized gains and losses previously recognized in the statement of remeasurement gains and losses are reversed and recognized in the statement of operations.

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 1. Summary of Significant Accounting Policies (continued)

#### (k) Financial Instruments (continued)

The Standards require an organization to classify fair value measurements using a fair value hierarchy, which includes three levels of information that may be used to measure fair value:

- Level 1 - Unadjusted quoted market prices in active markets for identical assets or liabilities;
- Level 2 - Observable or corroborated inputs, other than level 1, such as quoted prices for similar assets or liabilities in inactive markets or market data for substantially the full term of the assets or liabilities; and
- Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets and liabilities.

All financial assets are assessed for impairment on an annual basis. When a decline is determined to be other than temporary, the amount of the loss is reported in the statement of operations and any unrealized gain is adjusted through the statement of remeasurement gains and losses.

### 2. Cash and Cash Equivalents

	2024	2023
	\$	\$
Cash - Operating Funds	<b>3,274,487</b>	1,007,762

Included in the Operating Funds is an interest account which earns interest at 4% and total interest earned from operating fund accounts was \$83,713 (2023 - \$67,640).

### 3. Temporary Investments

	2024	2023
	\$	\$
Guaranteed Investment Certificate, interest at 5.15%, matures September 2, 2024	-	1,362,250
Guaranteed Investment Certificate, interest at 5.45%, matures November 14, 2024	-	1,564,207
Guaranteed Investment Certificate, interest at 3.85%, matures October 25, 2025	<b>700,000</b>	-
Guaranteed Investment Certificate, interest at 3.9%, matures January 25, 2026	<b>758,261</b>	-
	<b>1,458,261</b>	2,926,457

The GICs are carried at cost which approximates the fair market value and earned interest of \$192,975 (2023 - \$136,382).

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 4. Accounts Receivable

	2024	2023
	\$	\$
Municipal Levies	261,903	257,581
Trade Accounts Receivable	424,686	679,570
	<b>686,589</b>	937,151

### 5. Deferred Revenue

	2024	2023
	\$	\$
Individual Programs	194,435	131,611
Ministry of Natural Resources and Forestry, and Municipalities	89,141	128,989
Bruce Power Funding	209,565	206,928
Other Deferred Revenue	104,496	103,039
	<b>597,637</b>	570,567

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# SAUGEE VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 6. Tangible Capital Assets

	Balance 2023	Additions	Disposals	Balance 2024
<b>Cost</b>	\$	\$	\$	\$
Land	5,694,957	-	-	5,694,957
Buildings	1,686,540	-	-	1,686,540
Conservation Areas	1,072,575	26,842	-	1,099,417
Erosion and Flood Control	13,419,193	17,924	-	13,437,117
Equipment	498,723	23,409	(11,934)	510,198
Floodwarning Equipment	239,706	14,820	-	254,526
Vehicles	585,749	-	(55,452)	530,297
Information Technology	174,592	25,683	-	200,275
	23,372,035	108,678	(67,386)	23,413,327
<b>Accumulated Amortization</b>	\$	\$	\$	\$
Buildings	1,052,705	31,691	-	1,084,396
Conservation Areas	646,446	21,154	-	667,600
Erosion and Flood Control	10,700,148	136,849	-	10,836,997
Equipment	329,528	27,559	(10,934)	346,153
Floodwarning Equipment	152,101	5,130	-	157,231
Vehicles	433,514	36,627	(53,951)	416,190
Information Technology	151,491	20,696	-	172,187
	13,465,933	279,706	(64,885)	13,680,754
<b>Net Book Value</b>	\$			\$
Land	5,694,957			5,694,957
Buildings	633,835			602,144
Conservation Areas	426,129			431,817
Erosion and Flood Control	2,719,045			2,600,120
Equipment	169,195			164,045
Floodwarning Equipment	87,605			97,295
Vehicles	152,235			114,107
Information Technology	23,101			28,088
	9,906,102			9,732,573

The Authority received no contributed asset in 2024 (2023 - NIL).



# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 7. Revolving Credit Facility

The Authority has available a Royal Bank of Canada revolving credit facility with a maximum limit of \$200,000. The facility bears interest at bank prime plus 1.25% and is due on demand. As at December 31, 2024, the balance is \$NIL (2023 - \$NIL). The Authority also has a \$100,000 VISA credit limit facility available.

### 8. Pension Plan

The employees of the Authority participate in the Ontario Municipal Employees Retirement Saving Plan ("OMERS"). Although the plan has a defined retirement benefit for employees, the related obligation of the Authority cannot be identified. The Authority has applied defined contribution plan accounting as it has insufficient information to apply defined benefit plan accounting.

The amount contributed to OMERS for 2024 was \$222,948 (2023 - \$226,075) for current service costs and is included as an expense on the statement of operations.

OMERS is a multi-employer plan, therefore any pension plan surpluses or deficits are a joint responsibility of Ontario municipal organizations and their employees. The most recent actuarial valuation of the Plan was conducted at December 31, 2024. The results of this valuation disclosed total actuarial liabilities of \$140.8 (2023 - \$136.2) billion in respect of benefits accrued for service with actuarial assets at that date of \$139.6 (2023 - \$132.0) billion, indicating a going concern actuarial deficit of \$2.9 (2023 - \$4.2) billion.

### 9. Budget Amounts

The 2024 budget amounts for Saugeen Valley Conservation Authority were approved by the Authority members and have been restated to conform to the basis of presentation of the revenues and expenses on the statement of operations and change in net financial assets.

### 10. Commitments

The Authority has entered into an operating lease agreement for a Xerox copier requiring 20 quarterly payments of \$1080 commencing January 2024. The lease expires December 2028.

The Authority has entered into an agreement for comprehensive studies, which will be \$32,205.

The minimum annual payments on commitments for the next four years are as follows:

2025	\$36,524
2026	\$4,319
2027	\$4,319
2028	\$4,319

# SAUGEE VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 11. Cash Flow Information

The net change in non-cash working capital balances consists of:

	2024	2023
	\$	\$
Accounts Receivable	169,546	49,124
Prepaid Expenses	12,578	(18,094)
Accounts Payable and Accrued Liabilities	(133,919)	105,121
Deferred Revenue	27,070	(68,421)
	<u>75,275</u>	<u>67,730</u>

### 12. Statement of Remeasurement Gains and Losses

A statement of remeasurement gains and losses has not been provided because there were no remeasurement gains or losses during the year.

### 13. Contingencies

In the ordinary course of business, various claims and lawsuits are brought against the Authority. It is the opinion of management that the settlement of these actions will not result in any material liabilities beyond any amounts already accrued. No provision has been made for pending expropriations of land beyond the payments already made to affected property owners. Any payment made by the Authority pursuant to claims, lawsuits or expropriations will be charged in the year of settlement.

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## NOTES TO THE FINANCIAL STATEMENTS AS AT DECEMBER 31, 2024

### 14. Financial Instruments

The Authority has exposure to the following risks from its use of financial instruments: credit risk, market risk (including interest rate, foreign currency, other price risks) and liquidity risk. Directors ensures that the Authority has identified its major risks and ensures that management monitors and controls them.

#### (a) Credit risk:

Credit risk is the risk of financial loss to the Authority if a counterparty to a financial instrument fails to meet its contractual obligations. Such risks arise principally from certain financial assets held by the Authority consisting of cash and cash equivalents, investments, and accounts receivable. The Authority assesses these financial assets on a continuous basis for any amounts that are not collectible or realizable.

#### (b) Market risk:

Market risk is the risk that changes in market prices, including interest rates, will affect the Authority's income. The objective of market risk management is to control market risk exposures within acceptable parameters while optimizing the return on risk. The Authority manages market risk by adoption of an investment policy and adherence to this policy.

Interest rate risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in the market interest rates.

#### (c) Liquidity risk:

Liquidity risk is the risk that the Authority will not be able to meet its financial obligations as they become due. The Authority manages liquidity risk by continually monitoring actual and forecasted cash flows from operations and anticipated investing and financing activities to ensure, as far as possible, that it will always have sufficient liquidity to meet its liabilities when due, under both normal and stressed conditions, without incurring unacceptable losses or risking damage to the Authority's reputation.

**SAUGEEN VALLEY  
CONSERVATION AUTHORITY**

**UNAUDITED SCHEDULES**

**DECEMBER 31, 2024**

**DRAFT FOR DISCUSSION**

**Reviewed with and approved by:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Date** \_\_\_\_\_

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE 1 SCHEDULE OF ADMINISTRATION EXPENSES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
<b>General Administration</b>			
Wages and benefits	479,000	<b>448,391</b>	487,892
Board of Directors' allowances	29,000	<b>32,970</b>	30,948
Staff mileage and expenses	10,600	<b>6,587</b>	5,992
Equipment, purchases and rentals	2,000	<b>2,136</b>	54
Materials and supplies	29,000	<b>23,307</b>	28,729
Insurance	48,000	<b>49,941</b>	49,891
Property taxes	8,200	<b>9,580</b>	8,612
Conservation Ontario levy	30,000	<b>30,516</b>	28,004
Other	3,000	<b>6,296</b>	8,246
Administrative centre operating expenses	90,000	<b>53,862</b>	58,729
Consultant fees	20,000	<b>45,738</b>	305
Legal, audit fees and bank charges	23,000	<b>35,629</b>	25,293
Health and safety expenses	20,000	<b>35,455</b>	30,675
Advertising and staff development	14,000	<b>6,578</b>	6,269
Office repairs due to lightening	-	<b>31,974</b>	-
Bad debts	-	<b>12,005</b>	-
Resource Centre operating expenses	4,000	<b>4,793</b>	4,018
	<b>809,800</b>	<b>835,758</b>	<b>773,657</b>

# SAUGEE VALLEY CONSERVATION AUTHORITY

## SCHEDULE 2 SCHEDULE OF PROGRAM OPERATION EXPENSES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
<b>Flood Control</b>			
Flood control structures	457,650	344,214	217,752
Flood warning, river forecasting and operation of dams	270,050	263,373	254,027
<b>Land Management</b>			
Taxes on provincially significant lands	40,000	51,555	48,014
Forest management	562,100	382,616	357,388
Geographical information systems / information technology	198,800	184,238	177,791
<b>Water Management</b>			
Plan input and review and regulation enforcement	1,093,300	929,155	1,105,658
Water quality	122,050	117,096	154,300
<b>Community Relations</b>			
Conservation information	134,300	118,452	120,930
Conservation education	-	2,584	112,267
	2,878,250	2,393,283	2,548,127
Less amounts capitalized	-	(58,430)	(13,431)
<b>Total Program Operation Expenses</b>	2,878,250	2,334,853	2,534,696
<b>Capital Acquisitions</b>			
Flood warning - Equipment		32,746	-
Land Management - IT infrastructure		25,684	13,431
		58,430	13,431

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE 3 SCHEDULE OF REPAIRS AND MAINTENANCE FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
<b>Water Management Surveys, Studies and Capital Projects</b>			
Durham Dam Safety & Repair	40,000	7,881	-
Flood Hazard Mapping	-	93,982	188,255
Hanover Dam	10,670	4,689	-
Mount Forest Dam	7,570	3,020	-
Meux Creek Repair	-	64	451,351
Neustadt Study & Durham Upper Dam Assessment	45,500	20,160	11,066
Neustadt Weir	-	2,700	-
Paisley Dyke Slope Stability	120,000	23,570	38,318
Paisley Dyke Long-term Monitoring	-	-	16,495
	223,740	156,066	705,485
<b>Recreational Capital Projects</b>			
Durham C.A. - winter camping	-	23,792	-
Saugeen Parks, Disc Golf	-	-	7,440
	-	23,792	7,440
<b>Other Capital Projects</b>			
	-	-	-
	223,740	179,858	712,925
Less amounts capitalized	-	(23,792)	(7,440)
	223,740	156,066	705,485
<b>Capital Acquisitions</b>			
Saugeen Parks, Disc Golf		-	7,440
Durham, winter camping		23,792	-
		23,792	7,440

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE 4 SCHEDULE OF REVENUES AND EXPENSES OF SAUGEEN PARKS & LAND MANAGEMENT FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
<b>Revenue from Revenue Producing Conservation Areas</b>			
Brucedale C.A.	142,800	135,157	122,020
Durham C.A.	354,900	373,358	335,328
Saugeen Bluffs C.A.	434,500	463,079	419,917
	932,200	971,594	877,265
<b>Expenses from Revenue Producing Conservation Areas</b>			
Brucedale C.A.	138,300	86,762	152,610
Durham C.A.	398,500	402,169	313,136
Saugeen Bluffs C.A.	429,800	528,009	516,624
	966,600	1,016,940	982,370
<b>Excess of Revenue Over Expenses (Expenses over Revenue) for the Year for Revenue Producing Conservation Areas</b>	(34,400)	(45,346)	(105,105)
<b>Revenue from Non-Revenue Producing Conservation Areas</b>			
Donations	1,000	31	5,027
Miscellaneous revenues	20,200	16,338	16,193
	21,200	16,369	21,220
<b>Expenses from Non-Revenue Producing Conservation Areas</b>	526,925	389,892	449,856
<b>Excess of Expenses Over Revenue for the Year for Non-Revenue Producing Conservation Areas</b>	(505,725)	(373,523)	(428,636)



# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE 5 SCHEDULE OF REVENUES AND EXPENSES OF SPECIAL PROGRAMS FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Actual 2024	Actual 2023
	\$	\$
<b>Revenue</b>		
Bruce Power Program	-	28,750
Conservation Ontario Contract	70,303	19,998
NWMO Water Testing	965,412	588,752
Power Work Camp	13,000	12,000
Saugeen Valley Children's Safety Village	-	2,034
Well Decommissioning Stewardship	-	22,811
Youth Outdoor Expo	-	1,827
	<b>1,048,715</b>	<b>676,172</b>
<b>Expenses</b>		
Bruce Power Program	-	28,750
Conservation Ontario Contract	79,697	19,998
NWMO Water Testing	425,987	278,797
Saugeen Valley Children's Safety Village	1,538	1,652
Valard Maintenance	-	33
Well Decommissioning Stewardship	-	22,811
Youth Outdoor Expo	-	1,828
	<b>507,222</b>	<b>353,869</b>
<b>Excess of Revenue Over Expenses (Expenses over Revenue) for the Year</b>	<b>541,493</b>	<b>322,303</b>

# SAUGEE VALLEY CONSERVATION AUTHORITY

## SCHEDULE 6 SCHEDULE OF REVENUES AND EXPENSES OF VEHICLES AND EQUIPMENT FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Budget 2024	Actual 2024	Actual 2023
	\$	\$	\$
<b>Revenue</b>			
Vehicles	145,000	117,531	133,844
Equipment	21,000	17,774	19,892
Office equipment	8,000	2,454	3,220
Gain on disposal of vehicles and equipment	10,000	4,570	-
	184,000	142,329	156,956
<b>Expenses</b>			
Vehicles			
Operating costs	108,000	77,669	94,956
Repairs and maintenance	17,500	16,657	25,967
Equipment			
Operating costs	57,000	5,704	1,387
Repairs and maintenance	15,000	21,881	11,134
Office equipment			
Operating costs	8,000	3,311	8,345
	205,500	125,222	141,789
<b>Excess of Revenue Over Expenses for the Year, Before Leasing of Vehicles and Equipment</b>	(21,500)	17,107	15,167
<b>Purchasing and Leasing of Vehicles and Equipment</b>	3,500	23,405	83,975
	(25,000)	(6,298)	(68,808)
Less amounts capitalized	(3,500)	(23,405)	(83,975)
<b>Excess of (Deficiency in) Revenue Over Expenses for the Year</b>	(21,500)	17,107	15,167
<b>Capital Acquisitions</b>			
Kubota Zero Turn Mower		23,405	21,420
Vehicles		-	62,555
		23,405	83,975

# SAUGEEN VALLEY CONSERVATION AUTHORITY

## SCHEDULE 7 SCHEDULE OF MUNICIPAL LEVIES FOR THE YEAR ENDED DECEMBER 31 (UNAUDITED)

	Modified Current Market Value in Watershed	Apportionment	2024 General Levies	2024 Special Levies
	\$	%	\$	\$
Arran-Elderslie	385,596,751	2.4902	56,962	56,082
Brockton	1,329,368,550	8.5850	196,379	27,917
Chatsworth	460,037,162	2.9709	67,958	-
Grey Highlands	667,666,822	4.3118	98,630	-
Hanover	1,004,484,311	6.4869	148,386	4,689
Howick	41,454,260	0.2677	6,124	-
Huron-Kinloss	858,406,961	5.5435	126,807	26,081
Kincardine	2,695,676,831	17.4085	398,216	14,414
Minto	421,175,958	2.7199	62,218	-
Morris-Turnberry	29,510,647	0.1906	4,359	-
Saugeen Shores	3,269,893,305	21.1168	483,042	10,146
South Bruce	755,315,272	4.8778	111,578	-
Southgate	1,101,666,084	7.1145	162,742	-
Wellington North	608,122,367	3.9272	89,834	3,073
West Grey	1,856,418,983	11.9887	274,237	102,147
	15,484,794,264	100	2,287,472	244,549

## Report EPR-2025-05

**Report To:** Chair and Directors, Saugeen Valley Conservation Authority  
**From:** Matt Armstrong, Manager, Environmental Planning and Regulations  
**Date:** May 15, 2025  
**Subject:** Environmental Planning and Regulations Policies Manual Consultation Comments and Recommended Revisions  
**Purpose:** To present consultation feedback and recommended revisions to the EPR Policies Manual

---

### Recommendation

THAT the Saugeen Valley Conservation Authority approve the updated draft Environmental Planning and Regulations Policies Manual and direct staff to begin using the manual.

### Background

The EPR Policies Manual outlines SVCA's environmental planning and regulations policy platform. It articulates the approach SVCA uses to review and evaluate planning and development applications submitted for approval under the Planning Act, and it defines the parameters and criteria against which SVCA administers its regulatory responsibilities under the CA Act and Ontario Regulation 41/24. It is used heavily by EPR staff to ensure consistency in review, and by the public and stakeholders to better understand the policies that guide development and interference activities in and around natural hazards.

In October 2024, the SVCA Board approved the circulation of a draft revised manual for public consultation.

### Analysis

The public consultation period began December 6, 2024, and ended February 28, 2025, and included an online meeting for Municipal and County planning and building department staff to go over the key changes to the manual.

The consultation resulted in the submission of 218 comments from stakeholders and the general public (see enclosed Consultation Feedback Table). Submitted comments focused on the manual's content (183), format (17), grammar (15), or consultation process (2). All comments were considered. The attached updated draft manual has been significantly improved based on the feedback received from stakeholders.

The manual has been updated to:

- Reflect SVCA's mandate and legislative responsibilities as assigned by the Province,
  - Reflect current provincial land use planning objectives and technical guidelines,
  - Identify matters of provincial interest for which SVCA has responsibility to address from a policy and an operational perspective, and
  - Comply with the CA Act and Ontario Regulation 41/24.
-

Other highlights include:

- AODA-compliant,
- Embedded hyperlinks to sections referenced throughout the manual,
- Removed unnecessary information to reduce document length, including incorporating former Chapter 6 (Processing Permit Applications) into Section 4 (Regulation and Permitting Program),
- Improved consistency with MNR's Natural Hazards Technical Guides,
- Removed references to Natural Heritage, and
- Updated Hearing Guidelines now address all eight scenarios where a Hearing may be requested.

Significant content revisions are highlighted in red, while grammatical and formatting changes have not been marked.

### **Financial Implications**

While the updated manual will aid SVCA staff and stakeholders as they navigate the natural hazards planning and regulations realm, the updated manual is not expected to have direct financial implications for SVCA.

### **Strategic Plan Linkages**

A1.6 – Access: Watershed Management Planning

E1.6 – Expertise: Internal Training and Policy

Prepared by:

[Original Signed by:]

Matt Armstrong

Manager, Environmental Planning and Regulations

Approved by:

[Original Signed by:]

Erik Downing

General Manager / Secretary-Treasurer

# DRAFT SVCA Environmental Planning and Regulations Policies Manual

Policy approved on:  
Next review date:

1.	Introduction.....	5
1.1	Purpose and Scope.....	5
1.2	How to Read this Manual.....	6
1.3	Legislative Authority.....	7
1.3.1	<i>Conservation Authorities Act</i> .....	7
1.3.2	<i>Conservation Authorities Act and Ontario Regulation 41/24</i> .....	9
1.3.3	<i>The Planning Act – Provincial Planning Statement, Natural Hazard Policies</i> .....	10
1.3.4	<i>Relationship of the Conservation Authorities Act and Ontario Regulation 41/24 to the Planning Act</i> .....	10
1.3.5	<i>Key Principles</i> .....	11
2.	Approach to Natural Hazard Management.....	12
2.1	The SVCA Watershed: Features & Functions.....	12
2.2	Watershed-Based Natural Hazard Management.....	13
2.3	Preparing for a Changing Climate.....	13
2.4	Vision, Goals & Principles.....	14
2.5	General Policies.....	15
3.	Planning Advisory Services.....	16
3.1	Implementation.....	16
3.2	Introduction.....	16
3.3	The <i>Planning Act</i> and SVCA.....	17
3.4	<i>Planning Act</i> Applications.....	18
3.4.1	<i>Planning Act Approvals, Timelines, and Appeals</i> .....	21
3.4.2	<i>Categorizing &amp; Circulation</i> .....	22
3.4.3	<i>Application Pre-submission Consultation &amp; Processing Timelines</i> .....	22
3.4.4	<i>Submission Requirements</i> .....	23
3.4.5	<i>Review Procedures</i> .....	24
3.4.6	<i>Plan Review Fees</i> .....	27
3.4.7	<i>Right to Appeal by SVCA</i> .....	27
3.5	SVCA Position on Natural Hazards.....	29
3.6	SVCA Plan Input and Review Policies.....	29
3.6.1	<i>SVCA General Planning Policies – Natural Hazards</i> .....	29
3.7	SVCA Hazard Specific Planning Policies.....	40
3.7.1	<i>Riverine Flooding and Erosion Hazards</i> .....	40
3.7.2	<i>Lake Huron Shoreline Flooding and Erosion Hazard</i> .....	45
3.7.3	<i>Lake Huron Shoreline Dynamic Beach Hazard</i> .....	46
3.7.4	<i>Hazardous Land Associated with Unstable Soil or Unstable Bedrock</i> .....	47
3.7.5	<i>Wetlands</i> .....	48
3.8	Aggregate Resource Policies.....	49

3.9	SVCA Watercourse Specific Planning Policies .....	49
3.9.1	<i>Watercourses</i> .....	49
4.	Regulation and Permitting Program.....	52
4.1	Purpose & Objectives of the Regulation and Permitting Program .....	52
4.2	Administration of the Regulation and Permitting Program.....	53
4.2.1	<i>Important Definitions and Areas</i> .....	54
4.2.2	<i>Approximate Regulation Mapping</i> .....	56
4.3	Permit Applications .....	56
4.3.1	<i>Pre-submission Consultation</i> .....	56
4.3.2	<i>Processing of Applications</i> .....	57
4.3.3	<i>Permit Application Requirements</i> .....	57
4.3.4	<i>Application Fees</i> .....	58
4.3.5	<i>Approval of the Permit</i> .....	59
4.3.6	<i>Conditions of the Permit</i> .....	59
4.3.7	<i>Application Review Timelines and Appeals</i> .....	60
4.3.8	<i>Permit Expiration and Extensions</i> .....	60
4.3.9	<i>Compliance with Permits and Violations</i> .....	61
4.3.10	<i>Other Terms and Conditions</i> .....	63
4.4	General Policies .....	63
4.4.1	<i>Implementation/Interpretation</i> .....	63
4.4.2	<i>Prohibiting or Regulating Development and Interference Activities</i> .....	64
4.5	Exemptions – No Permit Required.....	65
4.5.1	<i>Exemption Policies</i> .....	65
4.6	Lake Huron Shoreline Specific Policies.....	69
4.6.1	<i>The Lake Huron Shoreline Flooding Hazard</i> .....	69
4.6.2	<i>The Lake Huron Shoreline Erosion Hazard</i> .....	74
4.6.3	<i>The Lake Huron Shoreline Dynamic Beach Hazard</i> .....	78
4.7	Regulatory Floodplain of River or Stream Valley Specific Policies.....	82
4.7.1	<i>Riverine Flooding Hazards: Definition and Context</i> .....	82
4.7.2	<i>One Zone Policy Areas</i> .....	82
4.7.3	<i>Two-Zone Policy Areas</i> .....	86
4.7.4	<i>Floodproofing</i> .....	91
4.7.5	<i>Floodplain Compensation (Cut / Fill Balance)</i> .....	94
4.7.6	<i>Inland Lakes</i> .....	96
4.7.7	<i>Dug Out/Isolated Ponds</i> .....	97
4.8	Riverine Erosion Hazard Specific Policies.....	97
4.8.1	<i>Riverine Erosion Hazards: Definition and Context</i> .....	98
4.8.2	<i>Riverine Erosion Hazard for Apparent Valleys (Confined Systems) with Stable Slopes</i>	100
4.8.3	<i>Riverine Erosion Hazard for Apparent Valleys (Confined Systems) with Over-steepened Slopes</i>	102
4.8.4	<i>Riverine Erosion Hazard for Unconfined Systems (Meander Belt)</i> .....	106
4.9	Wetlands and “Other Areas” .....	111



4.9.1	<i>Wetland Definitions</i> .....	111
4.9.2	<i>Regulating Wetlands</i> .....	113
4.9.3	<i>Technical Analysis</i> .....	114
4.9.4	<i>Wetland Policies</i> .....	114
4.10	Hazardous Land – Unstable Soil or Bedrock.....	117
4.10.1	<i>Unstable Soils or Unstable Bedrock Policies</i> .....	117
4.11	Activities to Straighten, Change, Divert or Interfere with a Watercourse .....	119
4.11.1	<i>Watercourse Policies</i> .....	119
4.12	Municipal Drains.....	128
5.	Additional Guidelines .....	129
5.1	Natural Hazards.....	129
5.2	Hydrological Evaluations .....	129
5.3	Sediment and Erosion Control .....	129
5.4	Stormwater Management Practices .....	129
5.5	Natural Channel Design.....	130
5.6	Watershed and Subwatershed Plans .....	130
5.7	Municipal Storm Drainage Policy and Criteria Manuals .....	130
5.8	Other Related Legislation.....	130
5.9	Additional Information.....	130
Appendix A: A Glossary of Terms .....		133
Appendix B: Permit Application Checklist.....		141
Appendix C: Administrative Review Policies .....		142
Appendix D: Hearing Guidelines .....		146
Appendix E: Slope Stability Assessment Guidelines.....		189

# 1. Introduction

## 1.1 Purpose and Scope

Saugeen Valley Conservation Authority (SVCA) has a legislative mandate to protect people and property from natural hazards. SVCA, through its Environmental Planning and Regulations department, provides environmental expertise to guide municipal land use decisions, and manages natural hazard impacts by administering the *Conservation Authorities Act* (CA Act) and regulations made under the CA Act.

This manual outlines SVCA's environmental planning and regulations policy platform. It articulates the approach SVCA will use to review and evaluate planning and development applications submitted for approval under the *Planning Act*, and it defines the parameters and criteria against which SVCA administers its regulatory responsibilities under the CA Act, Ontario Regulation 686/21 (Mandatory Programs and Services,) and Ontario Regulation 41/24 (Prohibited Activities, Exemptions, and Permits). It has been written to:

- Reflect SVCA mandate and legislative responsibilities as assigned by the province,
- Reflect current provincial land use planning objectives and technical guidelines,
- Identify matters of provincial interest for which SVCA has responsibility to address from a policy and an operational perspective, and
- Comply with the CA Act, Ontario Regulation 686/21, and Ontario Regulation 41/24.

Not only are these policies utilized by SVCA staff in their review of planning and development applications, but they are also relied upon by staff as the basis for developing policy recommendations for upper tier County and lower tier Official Plan updates. In addition, the policy platform offers developers and environmental stakeholders an important lens by which to better understand SVCA mandate and responsibilities.

Planning and regulation policies must be current if they are to provide guidance and direction. They must offer consistent interpretation and clear direction not only for staff of Saugeen Valley Conservation Authority, but for its partners and clients. Having an accessible planning and policy platform establishes credibility, promotes consistency and increases understanding and awareness. It is a vital evaluation, assessment and decision-making tool.

This manual will serve many uses and many users:

- It will provide guidance and direction to SVCA staff responsible for reviewing *Planning Act* and *Conservation Authorities Act* applications for approval against the policies contained herein,
- It will provide direction to municipalities (both local and upper tier) who will take these policies and incorporate them in their planning review functions and in their planning documents (e.g. Official Plans),
- It will provide guidance and direction to the development community (applicants and their agents) who will be able to rely on this manual for direction as they prepare proposals for consultation, review and approval,
- It will provide guidance and direction to community stakeholders who have an interest in protecting, preserving and enhancing those natural features and functions of the watershed,

and

- It will instill confidence among provincial partners that matters of stated provincial interest have been accurately interpreted and are being applied appropriately.

Please note that consistent nomenclature has been used throughout this document. Saugeen Valley Conservation Authority is at times referenced as SVCA and as Saugeen Conservation. The SVCA's Authority Members are at times referenced as the Board of Directors. References are made to the Ministry of the Environment, Conservation and Parks (MECP) and the Ministry of Natural Resources (MNR), as they are currently known. References to the PPS means the Provincial Planning Statement, which replaced the Provincial Policy Statement on October 20, 2024.

## 1.2 How to Read this Manual

A policy-oriented planning system should work to recognize the multiple inter-relationships that exist between the environmental, physical, social, and economic factors influencing land use planning. This manual supports and recognizes linkages among policy areas and therefore this document is more than a set of individual policies and guidelines.

The policies and guidelines contained within this manual should not be read in isolation of one another. Rather, they should be read concurrently in their entirety and the appropriate range of policies and guidelines should be applied to each situation. A decision-maker should read all the relevant policies as if they are specifically cross-referenced with each other. While specific policies sometimes refer to other policies for ease of use, these cross-references do not take away from the need to read this entire document. There is no implied priority in the order in which the policies and guidelines appear.

Italicized terms in this document are defined in the Glossary (Appendix A) and may be repeated within various sections for emphasis. For other terms, the normal meaning of the word applies. Of distinction is the term development, which has a different meaning under the Provincial Planning Statement (PPS) than development activity in the *Conservation Authorities Act* (CA Act). Therefore, when development is used in the Planning section (3.0), the PPS definition applies. Conversely, when development activity is used in the Regulation section (4.0), the CA Act definition applies.

This document consists of:

Section 1: Introduction

Section 2: Approach to Natural Hazard Management

Section 3: Planning Advisory Services

Section 4: Regulation and Permitting Program

Section 5: Additional Guidelines

Appendices

## 1.3 Legislative Authority

Specific to the purpose of this manual, two key statutes bestow regulatory and advisory services to conservation authorities (CAs): (1) The *Conservation Authorities Act* (CA Act), and (2) the *Planning Act*. The CA Act and supporting regulations mandate that CAs undertake regulatory responsibilities, enable CAs to provide municipal plan review services, and allow for other services to further the purposes of the CA Act. The *Planning Act* recognizes CAs as a public body, where municipalities must circulate *Planning Act* applications and have regard for CA technical expertise with respect to the natural hazard policies of the Provincial Planning Statement (2024).

### 1.3.1 Conservation Authorities Act

The purpose of the *Conservation Authorities Act* (CA Act) is to provide for the organization and delivery of programs and services that further the conservation, restoration, development and management of natural resources in watersheds in Ontario. The CA Act assigns a broad set of responsibilities to all conservation authorities (CAs) across Ontario. Section 20 of the CA Act requires CAs to provide mandatory, municipal, and other programs and services to further the objectives of the CA Act. Specifically, CAs are enabled through section 21.1 (Mandatory Programs and Services) and s. 28, s. 28.1, s. 28.1.1, s. 28.1.2, s. 28.2 - 28.5, s. 30.1 - 30.7, ss. 40(1)(g), and ss. 40(4) (Regulations) to provide the services outlined in this manual.

#### Section 21.1, Mandatory Programs and Services

Ontario Regulation 686/21, made in accordance with section 21.1 of the CA Act, details Category 1, Mandatory Programs and Services each CA must provide. These services shall be related to:

- The risk of natural hazards,
- The conservation and management of lands owned or controlled by the authority, including any interests in land registered on title to design a program(s),
- The authority's duties, functions and responsibilities as a source protection authority under the *Clean Water Act*, and
- The authority's duties, functions and responsibilities under an Act prescribed by the regulations.

Section 21 of the CA Act provides further direction as to how the responsibilities of a CA are to be achieved, including but not limited to the power to: research, study and investigate the watershed; purchase lands; enter into agreements; erect structures; control the flow of surface waters; and generally to do all such acts as necessary for carrying out any project to further a CA's power.

The plan review and commenting authority of a CA is provided under sections 6 and 7 of Ontario Regulation 686/21.

#### Section 6

Under section 6 of Ontario Regulation 686/21, CAs shall provide programs and services to enable the authority to review proposals for the purpose of commenting on the risks related to natural hazards arising from the proposal, where the authority considers it advisable. The following is a list of prescribed Acts for this purpose:

- [Niagara Escarpment Planning and Development Act](#)

The purpose of this Act is to provide for the maintenance of the Niagara Escarpment and land in its

vicinity substantially as a continuous natural environment, and to ensure only such development occurs as is compatible with that natural environment.

➤ *Aggregate Resources Act*

Under the *Aggregate Resources Act* (ARA), CAs review proposals when requested by the Ministry of Natural Resources (MNR) for aggregate activities and comment in an advisory capacity to municipalities who have the responsibility for making planning decisions on application approvals. Under section 28 (2) of the CA Act, areas licensed for aggregate extraction under the ARA are exempt from CA permitting activities. However, CAs may bring local environmental and watershed knowledge into the application review process. In accordance with section 6 (1) of Ontario Regulation 686/21, an authority shall review proposals under the ARA for the purpose of commenting on the risks related to natural hazards arising from the proposal. The MNR has the overall responsibility for administration of the ARA.

➤ *Drainage Act*

The *Drainage Act* defines a process whereby property owners can petition their local municipality to develop communal solutions to solve drainage problems. Using the procedures in the Act the construction of a “municipal drain” – a communal drainage system designed to accommodate water flowing from the properties located within the watershed – can be accommodated.

Once constructed under the authority of a by-law, a municipal drain becomes part of the municipality’s infrastructure. The local municipality is responsible for repairing and maintaining the municipal drain in accordance with the associated engineers report. Municipal drains that meet the definition of a watercourse as defined by Ontario Regulation 41/24 are regulated by CAs. A CA permit may be required for new drainage works and drain improvements, maintenance and repair activities.

➤ *Environmental Assessment Act*

Under the *Environmental Assessment Act*, proponents are required to consult with CAs on proposed activities that require an Environmental Assessment. As a result, CAs review and comment on Class and Individual Environmental Assessments that occur within their jurisdiction. Activities proposed under the *Environmental Assessment Act* may occur in a CA’s regulated area, where a CA permit may be required.

## **Section 7**

Programs and services shall be provided in accordance with section 21.1 of the CA Act to ensure an authority satisfies its functions and responsibilities, whether acting on behalf of the Ministry of Natural Resources or in its capacity as a public body under the *Planning Act*, for the purposes of helping to ensure that the decisions under that Act are:

- Consistent with the natural hazards policies in the policy statements issued under section 3 of the *Planning Act*, but not including those policies related to hazardous forest types for wildland fire, and
- Where applicable, conform with any natural hazards policies included in a provincial plan as defined in section 1 of the *Planning Act*, but not including those policies related to hazardous forest types for wildland fire.

The functions and responsibilities mentioned above include:

- Reviewing applications or other matters under the *Planning Act* and, where the authority

considers it advisable, providing comments, technical support or information to the responsible planning authority under that *Act*,

- When requested by the Ministry of Municipal Affairs and Housing (MMAH), providing comments directly to the Ministry within the timeframes requested by the Ministry on applications or other matters under the *Planning Act*,
- When requested by a municipality or planning board, providing advice, technical support, training and any information the municipality or planning board requires,
- Apprising the MMAH of any applications or matters under the *Planning Act* where the authority is of the opinion that there is an application or other matter that should be brought to the attention of the Government of Ontario,
- Providing technical input into and participating in provincial review of applications for approval of a “Special Policy Area” within the meaning of the Provincial Planning Statement issued under section 3 of the *Planning Act*,
- When requested by the MMAH, providing support to the Ministry in appeals on applications or other matters under the *Planning Act* on behalf of the Province at the Ontario Land Tribunal for the purposes noted above, and
- Undertaking an appeal to the Ontario Land Tribunal of a decision under the *Planning Act* as a public body in accordance with that *Act* if the appeal relates to a purpose described above, and if the authority considers it advisable.

### **1.3.2 Conservation Authorities Act and Ontario Regulation 41/24**

Through the CA Act and Ontario Regulation 41/24 (Prohibited Activities, Exemptions, and Permits), CAs are empowered to regulate development and interference activities in and adjacent to watercourses (including valley lands), wetlands, shorelines or inland lakes and the Great Lakes-St. Lawrence River System and other hazardous lands. The objectives of regulating these activities are to:

- Prevent loss of life resulting from natural hazards (flooding, erosion, dynamic beaches, unstable soil or bedrock),
- Minimize property damage and social disruption resulting from natural hazards,
- Minimize public and private expenditure for emergency operations, evacuations, disaster relief and restoration,
- Prevent hazardous development within natural hazard lands which may in future require expensive protection measures,
- Ensure that development activity does not increase risks to adjacent lands or upstream and downstream landowners,
- Prevent interference such as filling or draining of wetlands and other natural flood storage areas,
- Prevent development that may limit floodplain storage capacity, increase flood elevations and/or decrease slope stability, and
- Prevent the interference with the hydrologic function of wetlands.

The current legislative structure requires CAs to administer both the CA Act and Ontario Regulation

41/24 concurrently to carry out their regulatory responsibilities. CA staff and applicants must refer to both pieces of legislation to make decisions and develop policies and guidelines related to permit applications.

### **1.3.3 The *Planning Act* – Provincial Planning Statement, Natural Hazard Policies**

The Provincial Planning Statement (PPS) is a consolidated statement of the government's policies on land use planning. It gives provincial policy direction on key land use planning issues that affect communities, such as:

- Efficient use and management of land and infrastructure,
- The provision of sufficient housing to meet changing needs, including affordable housing
- The protection of the environment and resources including farmland, natural resources (for example, wetlands and woodlands) and water opportunities for economic development and job creation,
- The appropriate transportation, water, sewer and other infrastructure needed to accommodate current and future needs, and
- The protection of people, property and community resources by directing development away from natural or human-made hazards, such as flood and erosion prone areas.

The PPS is issued under section 3 of the *Planning Act*. According to the *Planning Act*, all decisions affecting planning matters shall be consistent with the PPS. Municipalities are the primary decision-makers for local communities. They implement provincial policies through municipal official plans and planning related decisions.

As public bodies, Conservation Authorities (CAs) must be circulated development applications under the *Planning Act*. Through Ontario Regulation 686/21, CAs must provide plan review and commenting services related to natural hazards to ensure *Planning Act* decisions are consistent with the PPS natural hazard policies (except for hazardous forest types).

### **1.3.4 Relationship of the *Conservation Authorities Act* and Ontario Regulation 41/24 to the *Planning Act***

It is important to understand the linkage between regulatory approvals issued by SVCA under the *Conservation Authorities Act* (CA Act) and Ontario Regulation 41/24, and approvals that are issued by planning authorities under the *Planning Act*.

The *Planning Act* by way of the Provincial Planning Statement (PPS), establishes the principle of development. The fundamental principles set out in the PPS provide for appropriate development while protecting resources of provincial interest, public health and safety, and the quality of the natural and built environment. Ontario Regulation 41/24 provides for technical implementation of matters pursuant to the CA Act. Ontario Regulation 41/24 is designed to ensure development and site alterations will not aggravate existing natural hazards while having regard for public safety. Concerns regarding the principle of development are conveyed by CAs to municipalities through the *Planning Act* approval process and are not addressed through the CA permitting process. As such, when a proposal requires approvals under both the *Planning Act* and the CA Act it is necessary for proposed development to establish the principle of development through the *Planning Act* process before or in

concert with approvals under the CA Act and O. Reg. 41/24.

### 1.3.5 Key Principles

In carrying out its mandated responsibilities, SVCA will be guided by the following principles:

#### 1. *Planning Act* Priority

SVCA recognizes that the 'principle of development' is ~~preferred~~ to be established through the *Planning Act*. Any concerns regarding the establishment of the principle of development will be conveyed to the municipality/planning approval authority during the *Planning Act* approvals process. ~~and not addressed through the CA Act permitting process. Planning Act approvals are to be secured first, permit approvals second.~~

#### 2. Partnership

SVCA will promote a collaborative and 'whole team approach' with member municipalities and will participate in pre-consultation arranged by member municipalities.

#### 3. Process Fairness

SVCA will ensure that applicants are treated respectfully through decision making processes that are both fair and easy to understand. This reinforces the fact that we will address requirements that are in effect at the time of submission. Where historical planning approval decisions were made in the absence of current technical information which could preclude development under the CA Act, SVCA will work diligently with the applicant and municipality to resolve the issue. Furthermore, dispute resolution mechanisms and Hearings are available and will be used in accordance with the relevant agreements and legislation.

#### 4. Service Excellence

SVCA is committed to service excellence and to providing timely, transparent and professional services.



## 2. Approach to Natural Hazard Management

This section provides an overview of the physiography of the SVCA watershed and discusses the philosophy and approach to natural hazard management based on provincial direction articulated in recent changes to the *Planning Act* and *Conservation Authorities Act*.

### 2.1 The SVCA Watershed: Features & Functions

Saugeen Valley Conservation Authority (SVCA) is situated between Lake Huron and the headwater areas for most of the major water courses in Southwestern Ontario (Figure 2-1).



**Figure 2-1 Saugeen Valley Conservation Authority, one of 36 CAs in Ontario.**

SVCA has jurisdiction over a total land mass of 4,675 square kilometers (1,800 square miles) and owns more than 8,498 ha (21,000 acres) of natural areas consisting of significant natural areas, forests and conservation areas.

Most of the lands within SVCA's jurisdiction are in private ownership although SVCA is responsible for managing a number of conservation areas that are enjoyed for a variety of conservation purposes and are protected for their ecological value.

From a physiographic perspective, SVCA consists of three major watersheds that include the land area drained by the Saugeen, Pine and Penetangore rivers. Within these three major watersheds are a series of sub-watersheds. Although there are a variety of land use activities that occur across the SVCA landscape, agriculture predominates the landscape with forestry activities, aggregate extraction and recreational uses also factoring prominently.

For the most part, the landscape is comprised of small rural and agricultural communities that vary in

size from a few thousand to more than 11,000 residents. Highest densities prevail along the Lake Huron shoreline with lowest population densities occurring on farmland situated away from Lake Huron and toward the eastern portions of the land base.

## 2.2 Watershed-Based Natural Hazard Management

Natural hazards are the result of naturally occurring physical and environmental processes that can result in disaster, particularly if human activities interfere with these processes. Because these are environmental processes, largely influenced by climate and geology, that do not respect municipal or political boundaries, they are best planned and managed for through an integrated, watershed-based approach.

The incorporation of watershed ecosystem concepts and natural hazards within the *Planning Act* establishes a rationale for conservation authorities and local municipalities to abandon traditional single purpose management schemes. There is a broad range of economic and environmental benefits associated with natural stream and valley systems. Healthy natural stream systems provide recreational and fishing opportunities, clean drinking water, places to walk along, cycle next to, swim in, or paddle a canoe on. They also provide habitat for numerous species of terrestrial and aquatic animals. When a stream is allowed to take its natural course and development is regulated by appropriate setbacks, loss of life and property damage from flooding and erosion are minimized. Healthy natural streams require almost none of the continuous engineering that is required by hard-lined systems and thereby negate the need for costly repair and maintenance. These features of stream systems can be effectively planned for through a watershed-based management planning process.

SVCA understands hazardous lands are best maintained in their natural state to mitigate impacts of these hazards to life and property. As such, SVCA will recommend development avoid these areas as a first line of defense. Where development must be located within hazardous lands (e.g., flooding and erosion control structures, Two-Zone policy areas, existing development, etc.), and where an alteration to a watercourse or wetland is proposed, SVCA will consider the acute and cumulative impacts at both local and watershed-scales when making *Planning Act* recommendations and considering permit applications under the CA Act and Ontario Regulation 41/24.

## 2.3 Preparing for a Changing Climate

Potential climate change impacts, coupled with population growth and urban expansion require adoption of strategic approaches to ensure that natural hazards become an integral component of society's approach to living and cooperating with the natural environment rather than trying to control it. Moving toward the creation of sustainable communities and disaster-resilient communities allows society to increase preparedness and better mitigate against future natural disasters.

~~Current projections indicate that, in general, Ontario's total mean annual precipitation, in general, has not changed significantly over the current 100-year planning horizon. However, but precipitation patterns will be changing, where higher intensity rainfall events are being experienced followed by longer periods of dry weather. Stream systems are being affected by increased sporadic flows that are associated with high intensity rainfall events. These systems increase the potential for localized flooding, stream bank erosion and slope failures. allowing for well-planned future growth opportunities in many communities.~~

Section 2.9 of the Provincial Planning Statement (PPS) requires planning authorities to prepare for the

impacts of a changing climate through approaches that promote green infrastructure, protect the environment, and build resilient communities. The effect of such planning increases long-term economic prosperity, minimizes the negative impacts of climate change, and considers the ecological benefits provided by nature.

Furthermore, section 5.2 Natural Hazards of the PPS states that planning authorities shall prepare for the impacts of a changing climate that may increase the risk associated with natural hazards.

The MNR has not yet provided implementation guidelines for this policy and as such, SVCA will consider the general intent of this policy when making recommendations for plan input and review and when drafting development review guidelines. SVCA staff will refer to current information and guidelines from reputable sources including, but not limited to, Environment and Climate Change Canada, Canadian Climate Institute, and the Climate Risk Institute.

Although there is not an explicit reference in the CA Act or Ontario Regulation 41/24 to addressing climate change and its impacts, it is anticipated that implementation of the CA Act, O. Reg. 41/24, and the policies in this manual will assist CAs and watershed communities address impacts of climate change. For example, more frequent severe weather and extreme rainfall is being experienced leading to increased flood and erosion problems. Wetland loss in parts of the province continues to be a concern. Limiting development in or near hazards such as flooding or erosion and limiting the reduction in the quantity and quality of wetlands on the landscape assist in mitigating the impacts of climate change on people and property in watershed communities.

## **2.4 Vision, Goals & Principles**

In the context of the vision, mission, goals and values for SVCA's approach to integrated natural hazard management, the following planning and regulation principles will guide the work that SVCA carries out from a planning and regulatory perspective:

- Focus on mandatory programs and services for natural hazard planning and deliver on legislated responsibilities,
- Provide clear direction to watershed municipalities to distinguish between recommendations and requirements,
- Lead by example in carrying out natural hazard management responsibilities in accordance with provincial standards and published guidelines,
- Carry out natural hazard planning using an integrated approach that recognizes a healthy ecosystem as the preferred mitigative approach to natural hazard impacts and climate change resiliency,
- Maintain a watershed-scale perspective and consider the implications of cumulative impacts of development on the watershed, including upstream and downstream impacts,
- Make decisions and recommendations based on best available science and knowledge,
- Promote the transparent and timely sharing of information,
- Consider future impacts of climate change on water and other natural resources in assessing the impacts of development,
- Recognize that effective natural hazard management requires a collaborative approach with municipal planning partners,

- Acknowledge that those directly impacted by SVCA planning and regulatory responsibilities are the landowners across the watershed and to this end, that there is an ongoing need to pursue practical approaches to environmental management,
- Be committed to ecological literacy and to educating watershed residents, member municipalities, partners and clients about the value of the watershed, its features and functions, and
- Work in collaboration with municipal partners to offer an integrated, consistent and streamlined approach to development review.

## **2.5 General Policies**

This manual contains a number of general and specific policies intended to provide guidance to the administration and the implementation of Ontario Regulation 41/24 and SVCA's plan review responsibilities. General policies provide the basis for the formulation of the specific policies contained in the following sections. General policies also provide a set of considerations, restrictions and/or requirements applicable to proposed development and interference/ alteration that are within SVCA's scope and mandate related to Regulation 41/24 and Plan Review. The specific policies found herein do not address all potential forms of proposed development, site alteration or other alterations. It is intended that the general policies will provide guidance on how to respond to those proposals that are not specifically referenced. Furthermore, when considering proposals not specifically referenced in the manual, policies dealing with similar or like works/uses will also be considered.

## 3. Planning Advisory Services

### 3.1 Implementation

Saugeen Valley Conservation Authority (SVCA) will provide *Planning Act* review services whether acting on behalf of the Ministry of Natural Resources (MNR) or in our capacity as a public body under the *Planning Act* to ensure planning applications and other matters under the *Planning Act* are consistent with the natural hazard policies of the Provincial Planning Statement (PPS) and the SVCA's Regulation.

In some cases, there may be a need for coordination between planning applications and those under the Authority's Regulation and Permitting Program. This can also be complicated by the fact that the two applications may be received years apart. Except where legislation or policies have changed, or where planning policies supported by the PPS, municipal official plans or the SVCA are more restrictive, the SVCA will ensure that its position on a *Planning Act* application is the same as its position on a permit application for the same proposal on the same property; ~~except where planning policies supported by the PPS, municipal official plans or the Authority's Members, may be more restrictive.~~ The principle of development is determined through the review process under the *Planning Act* and discussed elsewhere in this manual.

### 3.2 Introduction

This section provides specific information about SVCA'S planning advisory services and particularly about the Plan Input and Plan Review services that the Authority provides.

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**Plan Input** refers to the responsibilities that SVCA has as a planning agency and public body under the *Planning Act* and to the planning advisory services that SVCA provides to watershed municipalities in submitting strategic level comments on Official Plans and Secondary Plans.

**Plan Review** refers to the technical advisory services SVCA provides to watershed municipalities on development applications including plans of subdivisions, plans of condominium, official plan amendments, zoning by-law amendments, minor variances and consents ~~to sever~~.

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Saugeen Valley Conservation Authority has been actively involved in municipal planning matters for many years. SVCA's mandate to help build climate resilient communities throughout our watershed by protecting people and property from natural and human-made flooding and erosion hazards is carried out through our planning advisory services. This service supports our watershed municipalities in meeting their obligations and planning responsibilities associated with natural hazard management. These responsibilities include the legislative requirements that have been prescribed under the *Planning Act*, as well as, but not limited to, the SVCA's role in administering the *Conservation Authorities Act* (CA Act) and Ontario Regulation 41/24 (O. Reg. 41/24). Plan input and review comments that SVCA provides to its watershed municipalities may be articulated in a formal Memorandum of Understanding (MOU) or Service Level Agreement and reflect the Authority's goals and objectives.

In some cases, provincial plan requirements may exceed SVCA's regulatory requirements. In administering SVCA's legislative, regulatory, and plan review services, the more stringent



requirements shall take precedence. For example, the provincial plans may have greater requirements for safe access, or more restrictions on the uses permitted than SVCA's regulation requirements. Similarly, where the SVCA's Regulation is more restrictive than those contained in these provincial plans, the more restrictive shall prevail.

### 3.3 The Planning Act and SVCA

In accordance with the *Conservation Authorities Act* (CA Act), SVCA must review policy documents and applications under the *Planning Act* to ensure that they are consistent with the natural hazard policies of the Provincial Planning Statement (PPS). The PPS focuses specifically on protecting public health and safety and addresses natural hazards directly. In keeping with our Mandatory Programs and Services and Municipal Partner Memorandum of Understanding (MOUs,) where applicable, the SVCA provides technical advisory services on a range of issues affecting natural hazards ~~and wetlands~~ as referenced in these policy documents, including but not limited to flood and erosion hazard studies, ~~wetland environmental impact~~ water balance studies, and stormwater management.

The Municipal Partnership MOUs, where applicable, articulate the types of planning documents that SVCA is expected to review and include dispute resolution procedures. SVCA also reviews and comments on other legislation as prescribed in Ontario Regulation 686/21 (Mandatory Programs and Services Regulation), including the *Environmental Assessment Act*, *Aggregate Resources Act*, and the *Drainage Act* (See section 1.3.2 for more information.) However, these applications are not circulated under the *Planning Act*; they are circulated by applicants for works under these Acts.

SVCA is a watershed-based agency. Therefore, the approach to plan reviews that SVCA takes is to consider watershed-wide impacts as well as impacts upstream and downstream as detailed in Section 2 of this manual. SVCA considers its mandate under the CA Act as a natural resource manager. In this regard, approved watershed plans, where applicable, provide additional guidance beyond this manual to ensure development maintains and enhances the health of the watershed. Where there is a conflict with the policies in this section to any provision contained in an SVCA approved Watershed Plan, the more protective policies relating to shall prevail.

The CA Act, through Ontario Regulation 41/24, defines the type of "development activities" prohibited in SVCA's area of jurisdiction, whereas the PPS includes a definition of "development" for applications considered under the *Planning Act*. These definitions are provided in the Glossary of Terms found in [Appendix A](#). Although similar, the definitions differ in two primary ways:

1. The CA Act definition allows for the regulation of certain works that are typically not regulated under the *Planning Act* (e.g. placement of material).
2. The *Planning Act* includes lot creation as development which is not included in the CA Act definition.

Except for the above two key differences, the definitions are generally consistent. Typically, SVCA carries out its planning review and advisory function and processes these applications in coordination with SVCA's Regulation permitting requirements. Considering this, the policies outlined in Section 4 dealing with the administration of the SVCA's Regulation and Permitting Program, are also to be used to guide the review for these types of applications, while being consistent with all other relevant policies throughout this document.

### 3.4 *Planning Act Applications*

Planning and development related applications affected by hazardous lands and hazardous sites (including SVCA regulated areas) are circulated by planning authorities to SVCA for comment. When an application is circulated to SVCA, application pre-submission consultation with the applicant, municipality, and SVCA staff is encouraged to scope technical studies that may be required and to provide guidance on other SVCA programs and services to ensure the application is complete.

Planning related applications circulated to SVCA for review typically include:

#### **Official Plans and Official Plan Amendments**

An Official Plan is a vision or guideline document established under the *Planning Act* that outlines the goals, objectives and policies necessary to manage growth and provide direction for the use of lands. It is prepared with input from communities and helps to ensure that future planning and development will meet the specific needs of a community.

An official plan deals mainly with issues such as:

- where new housing, industry, offices and shops will be located
- what services like roads, watermains, sewers, parks and schools will be needed
- when, and in what order, parts of a community will grow
- community improvement initiatives

It is expected that municipal councils or upper-tier planning authorities will regularly update their official plans to ensure that the plan implements any changes to the Provincial Planning Statement (PPS) or provincial plans. Official plan updates should be completed ten years after a municipality prepares a new comprehensive official plan or every five years after an update is done through an amendment to the plan.

When official plans are being updated, SVCA must ensure that proposed land use designations and associated policies for hazardous lands and hazardous sites are current and conform to the natural hazard policies of the PPS. SVCA must also provide municipalities and upper-tier planning authorities with current hazard mapping to be incorporated into the updated plan.

#### **Zoning Bylaws and Zoning Bylaw Amendments**

Zoning bylaws are precise documents that are used by Council to implement Official Plan policies through the regulation of land use. Zoning by-laws, as the legal implementing tool, must conform to the Official Plan. While the Official Plan divides a municipality into land use designations, zoning by-law provisions establish site specific requirements (setbacks, density) that are identified and implemented on a site-specific basis. Given their specific nature, zoning by-laws can directly compliment the Authority's regulations by prohibiting certain buildings or structures on land with steep slopes, unstable soils, wetlands, or areas that are subject to flooding.

When Council considers a zoning bylaw, its decision shall be consistent with the PPS. This means that a council must ensure that the policies of the PPS are applied as an essential part of the land use planning decision-making process. Zoning bylaws must also conform with any applicable provincial plan. Provincial plans provide direction for specific geographic areas and address environmental, growth management and economic issues.

Similar to official plan updates, when zoning-bylaws are being updated, SVCA must ensure that

hazardous lands and sites are being appropriately zoned and mapped, and that associated policies are current and conform to the natural hazard policies of the PPS.

### **Minister's Zoning Orders**

The *Planning Act* gives the Ministry of Municipal Affairs and Housing (MMAH) the authority to control the use of any land in the province. Zoning orders can be used to protect a provincial interest or to help overcome potential barriers or delays to critical projects. If there is a conflict between a minister's zoning order and a municipal bylaw, the minister's zoning order (MZO) prevails. The municipal bylaw remains in effect in all other respects.

The Minister of Municipal Affairs and Housing requires that before a City Council requests an MZO, they do their due diligence which includes:

- Consulting in their communities,
- Engaging with the conservation authority responsible for regulating the lands on which the zoning order is requested, and
- Engaging with potentially affected Indigenous communities.

The Minister also expects that Council requests for a zoning order include a supporting Council resolution. As Council meetings are generally open to the public, this expectation is meant to ensure public awareness of a request being made for the minister to consider making a zoning order. SVCA will have an opportunity to comment on natural hazards affecting the lands subject to an MZO if consulted on prior to the council meeting and if not consulted; SVCA can submit comments prior to the public meeting being held.

### **Plans of Subdivision**

When land is being subdivided into multiple lots, a plan of subdivision is generally required. The plan of subdivision is first submitted and circulated as a draft under the *Planning Act*. The councils of some upper-tier, lower-tier and single-tier municipalities are the approval authorities for draft plans of subdivision. Upper-tier municipalities may further delegate the authority to approve plans of subdivision to their lower-tier municipalities. Municipalities may also delegate the authority to committees of council or appointed officers. In all other areas, the MMAH is the approval authority.

The *Planning Act* requires that, in deciding on an application, the approval authority shall be consistent with the PPS. Plans of subdivision must be considered in light of the effect that development will have on matters of provincial interest (e.g. floodplain management, wetlands, etc.), the suitability of the land for which it is to be developed, and the conservation of natural resources and flood control. Provisions under the *Planning Act* allow conditions of development to be imposed, and it is through this mechanism that conservation authorities like SVCA can identify matters of concern relating to its mandate.

### **Draft Plans of Condominium**

Condominiums are a form of subdivision in which title to a unit (e.g. individual apartment) is held by an individual. A share in the rest of the property is held commonly by all owners. Condominiums are regulated under the *Condominium Act* and the process for approval of a plan of condominium is markedly similar to that of a plan of subdivision. Draft plans of condominium are circulated to SVCA for review by watershed municipalities. Condominiums can involve new development or the transition of an existing rental property to condominium ownership. Condominiums units can also apply in principle to any type of residential building as well as to commercial and/or industrial areas.



## Consents (severances, lot-line adjustments, and easements)

A consent (sometimes referred to as severance) is the authorized separation of a piece of land into two or more adjoining properties. If several severances are intended on the same property, the planning authority may determine that a plan of subdivision may be required. Severance approval is generally delegated to a Committee of Council.

When a proposed severance is eligible for approval, the consent-granting authority can give provisional consent (sometimes called consent-in-principle). This approval typically has certain conditions attached to it including requirements for road widenings, parkland dedication, or a rezoning (or minor variance) to adjust the permitted lot dimensions. In addition, the property owner may be required to enter into an agreement with the municipality to provide future services or facilities. Severance conditions must be met within two years. Under the provisions of the *Planning Act*, the SVCA can request conditions of consent.

## Minor Variances

A minor variance is generally considered a minor exception to the requirements of the zoning by-law. Usually, minor variances apply to specific properties and in most cases, municipalities appoint a Committee of Adjustment to deal with minor variance applications as they relate to:

- Minor variances to certain types of by-laws,
- Minor variances to non-conforming uses, and
- Minor variances to permit specific deviations in use where a by-law defines them in specific terms.

~~The review of minor variance applications is an effective method by which SVCA can generally monitor and assess the impact of development activities on key policy and program interests.~~

Under the provisions of the *Planning Act*, the Committee of Adjustment circulates the notice of a hearing on an application to agencies that it considers have an interest. ~~As a result, SVCA can request conditions be placed on the minor variance application and can identify the need for a permit under the Authority's regulations, where such requirements apply.~~

## Site Plan Control By-laws

Site plan control bylaws are not zoning bylaws. They are used to establish areas where site plan control will be applied. These areas must be described in the official plan.

Site plan control is used to ensure that:

- Developments are built and maintained in the way that council approved,
- New developments meet certain standards of quality and appearance,
- There is safe and easy access for pedestrians and vehicles,
- The appearance and design features of buildings, and their sustainable design, are satisfactory,
- There is adequate landscaping and drainage, and
- Nearby properties are protected from incompatible development.

For landowners to get a Site Plan Agreement, they must complete an application for Site Plan Approval. Once approved, the property owner must follow the site plan and agreement terms. In general, site plan control agreements deal with existing lots of record and tend to be more detail

design oriented. SVCA typically considers these applications in accordance with its Regulation and Permitting Program (see [Section 4](#)).

### **3.4.1 Planning Act Approvals, Timelines, and Appeals**

In June 2024, the Province made several changes to the *Planning Act* relating to the approval and appeals process for planning decisions made under the *Act*. To stay updated on these processes visit [Citizen's guide to land use planning](https://www.ontario.ca/document/citizens-guide-land-use-planning) (<https://www.ontario.ca/document/citizens-guide-land-use-planning>).

#### **SVCA's Approach to Plan Review and Input**

Land use planning is dynamic and evolutionary. Areas of planning interest are subject to change over time. Evidence of this evolution is apparent in the amendments to the PPS (since its inception in 1996) but is also reflected in the release of new programs, new legislation and new guidelines.

The focus of interest also changes in response to the emergence of new issues and the availability of new science and information. For example, in accordance with the *More Homes Built Faster Act*, 2022 passed in the fall of 2021, amendments were made to the *Conservation Authorities Act* (CA Act) in support of Ontario's Housing Supply Action Plan, which came into effect January 1, 2023.

Following the passing of these legislative amendments, a new Ontario Regulation 596/22 was made under the CA Act which also became effective January 1, 2023. Under this new regulation, conservation authorities (CAs) are no longer able to review and provide commenting services on natural heritage for proposals under the *Planning Act*. The purpose of these changes was to re-focus CA programs and services to our core mandate related to natural hazard management in relation to plan review.

Therefore, SVCA's approach to planning review and input is premised on the following key principles:

- Conducting planning responsibilities on a watershed wide basis, recognizing the importance of integrated watershed management and the need for a holistic and ecological approach to planning,
- Making recommendations that are consistent with SVCA's vision, goals and objectives, and core mandate,
- Working with municipal partners to include natural hazard areas into municipal planning documents to ensure that any new development is in keeping with established provincial policy,
- Recognizing that the responsibility for decisions made under the *Planning Act* rests with the municipality and in this regard, making recommendations to planning authorities that are in alignment with existing legislation and approved policy and guidelines, and
- Providing sound technical advice and guidance on matters within SVCA mandate and as articulated in the municipal partner Memorandum Of Understandings (MOUs), where in place.

SVCA partnership memoranda specify the role and the responsibilities of both SVCA and the county/municipality with respect to environmental planning. These Agreements, where applicable, prescribe the processing fees for various planning applications and stipulate that SVCA will provide planning advisory services on a cost-recovery basis, in the following key areas:

- Natural hazard planning (flooding, erosion, unstable slopes, shorelines, and soils),

- Groundwater (CA regulatory requirements / natural hazard related functions),
- Wetlands (CA regulatory requirements / natural hazard related functions),
- Valleylands (CA regulatory requirements / natural hazard related functions),
- Stormwater (natural hazards related),
- Feature based water balance (CA regulatory requirements / natural hazard related functions),
- Buffer / setback to identified plan review component (CA regulatory requirements / natural hazard related functions),
- Source Protection Authority under the *Clean Water Act*, 2006,
- Climate Change (as it relates to natural hazards), and
- Special Policy Areas (as applicable).

More details on the items listed above and the extent of SVCA's involvement in natural hazard-related stormwater review should be confirmed between the Municipality and the SVCA in a MOU.

Where there is a plan review component within a SVCA regulated area that is also located within a natural heritage feature or area as described by the Provincial Planning Statement or other municipal or provincial plan, the SVCA will continue to provide plan review comments related to natural hazard functions and CA regulatory requirements, but not natural heritage. Within SVCA's watershed, local and upper-tier planning authorities are responsible for ensuring development impacts to natural heritage features are being addressed. Many natural hazard areas overlap with natural heritage features. As such, SVCA will continue to coordinate development review with our planning partners.

The SVCA will regularly review the MOU Agreements with member counties and municipalities within the SVCA Watershed.

### **3.4.2 Categorizing & Circulation**

To coordinate planning responsibilities with watershed municipalities, the SVCA may develop circulation maps to be provided to the watershed counties/municipalities to determine when an application may require review by SVCA. In general, SVCA has an interest in the following:

- Any lands that contain and/or are adjacent to all hazardous lands and hazardous sites,
- Any lands containing wetlands,
- Watercourses and other natural features and areas that are within areas requiring special water management related measures, and/or
- Properties that are located adjacent to any SVCA owned property.

Where a service level agreement or municipal Memorandum of Understanding (MOU) exists, the circulation categorizing processes are described in detail. Where no MOU exists between the municipality and the SVCA, informal or formal categorizing and circulation processes should be developed based on municipal requirements, legal obligations and best practices.

### **3.4.3 Application Pre-submission Consultation & Processing Timelines**

In addition to consulting with municipal staff, it is important for applicants to discuss development proposals with SVCA staff prior to submitting a formal *Planning Act* application when in or near the SVCA's areas of interest. For complex applications, this preliminary consultation is often done in

coordination with the municipality to ensure all interests are met. Preliminary consultation should be done as early in the planning process as possible to determine how proposals may be affected by SVCA's programs and policies, including other partnering agencies such as the Ministry of Natural Resources (MNR).

The objective of pre-consultation is to prepare the applicant to make a high-quality submission by clearly outlining the approvals process(es), requirements for complete applications (e.g. technical studies and fees), review and approval timelines and to allow the approval authority(ies) and commenting agencies to understand the applicant's timelines, constraints, and communication preferences.

A successful pre-consultation meeting allows the applicant to introduce and clarify the proposal; allows the approval authorities (including the SVCA) to guide the applicant through the application review process and clarify any constraints; and allows for a review timeline to be discussed. After a successful pre-consultation meeting, the approval authority(ies) can provide the applicant with a clear route towards the submission requirements for their project. This includes written confirmation of the submission requirements for a complete application, and ideally, scoping of required studies.

SVCA may attend pre-consultation meetings virtually, in person, or staff may provide applicants with application-specific information in writing. However, virtual or in-person consultation is strongly recommended for major and/or complex applications. Some of the detailed information that may be provided includes an overview of SVCA's general review process, an outline of specific components of the proposal that are of interest to SVCA, a discussion of any potential study requirements and anticipated processing timelines

Processing timelines will vary based on the completeness of the submission, nature and complexity of the proposal, and quality of the technical submissions. SVCA staff are committed to providing a thorough and expeditious review of planning related proposals in an effort to meet the processing timelines established under the *Planning Act*.

The submission of a complete application provides SVCA staff with an opportunity to review the application in a comprehensive, efficient and timely manner. In addition, it is important that applicants ensure the quality of the submission meets good practice and industry standards to minimize the extent and number of resubmissions and to avoid unnecessary delay.

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It is the responsibility of the applicant to undertake due diligence to determine permit approvals beyond those provided by SVCA.

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### **3.4.4 Submission Requirements**

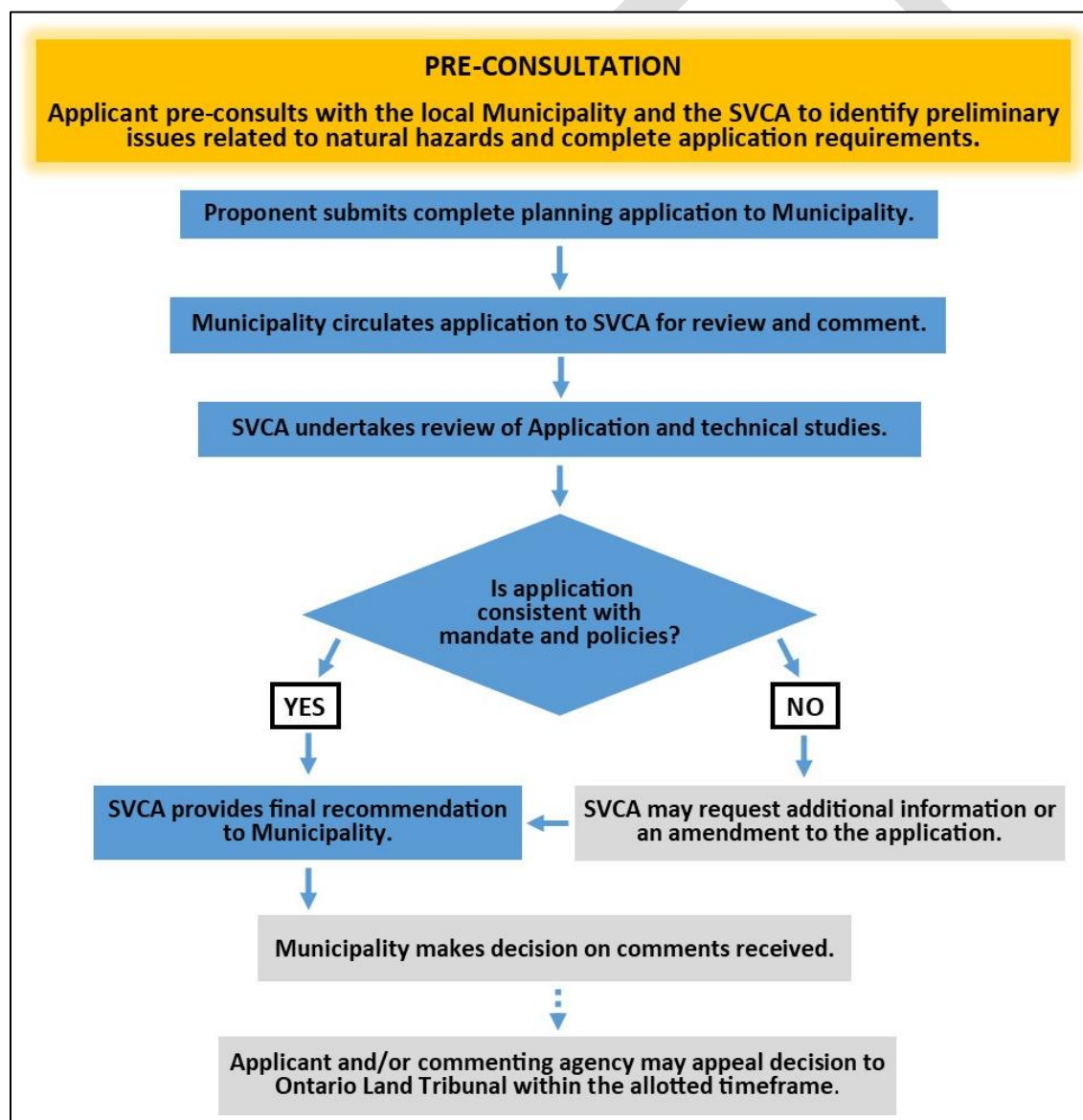
Where development proposals are located within an SVCA area of interest, *Planning Act* applications are determined complete by the municipal planner ~~in consultation with the SVCA~~. Where a property or development proposal is affected by natural hazards, it is best practice for the municipality to consult with SVCA on complete application requirements to streamline the application review process and potentially reduce financial burden to applicants. To ensure SVCA's interests are met, and to properly address the technical aspects of a proposal, several documents and plans may be required. The level of detail required will vary as will report requirements based on the location of the property and the nature of the proposal. Technical requirements may vary from a letter of opinion to a scoped or comprehensive natural hazard assessment. Application pre-submission consultation will allow the

proposal-specific requirements to be identified by SVCA staff. Technical study guidelines are being developed and those completed to date can be found in the Appendices of this manual.

### 3.4.5 Review Procedures

Planning and development applications are managed by the municipality or county involved and specific applications for approval under the *Planning Act* are managed by the planning department of that municipality or county. The municipal or county planner conducts an initial review, or in some cases, may send the application directly to SVCA for categorizing. A site visit may be arranged if required and the application, once it has been determined to be of interest to SVCA, is circulated to planning and technical staff within the Authority. The municipality or county also circulates to its own internal departments as well as to other outside agencies. The nature of the proposal will determine which staff member at the SVCA needs to review the development. Upon completion of the review, a letter is forwarded from the SVCA to the affected municipality and in some cases to the applicant providing the SVCA comments, or if no SVCA comment is needed, a sign off will be provided.

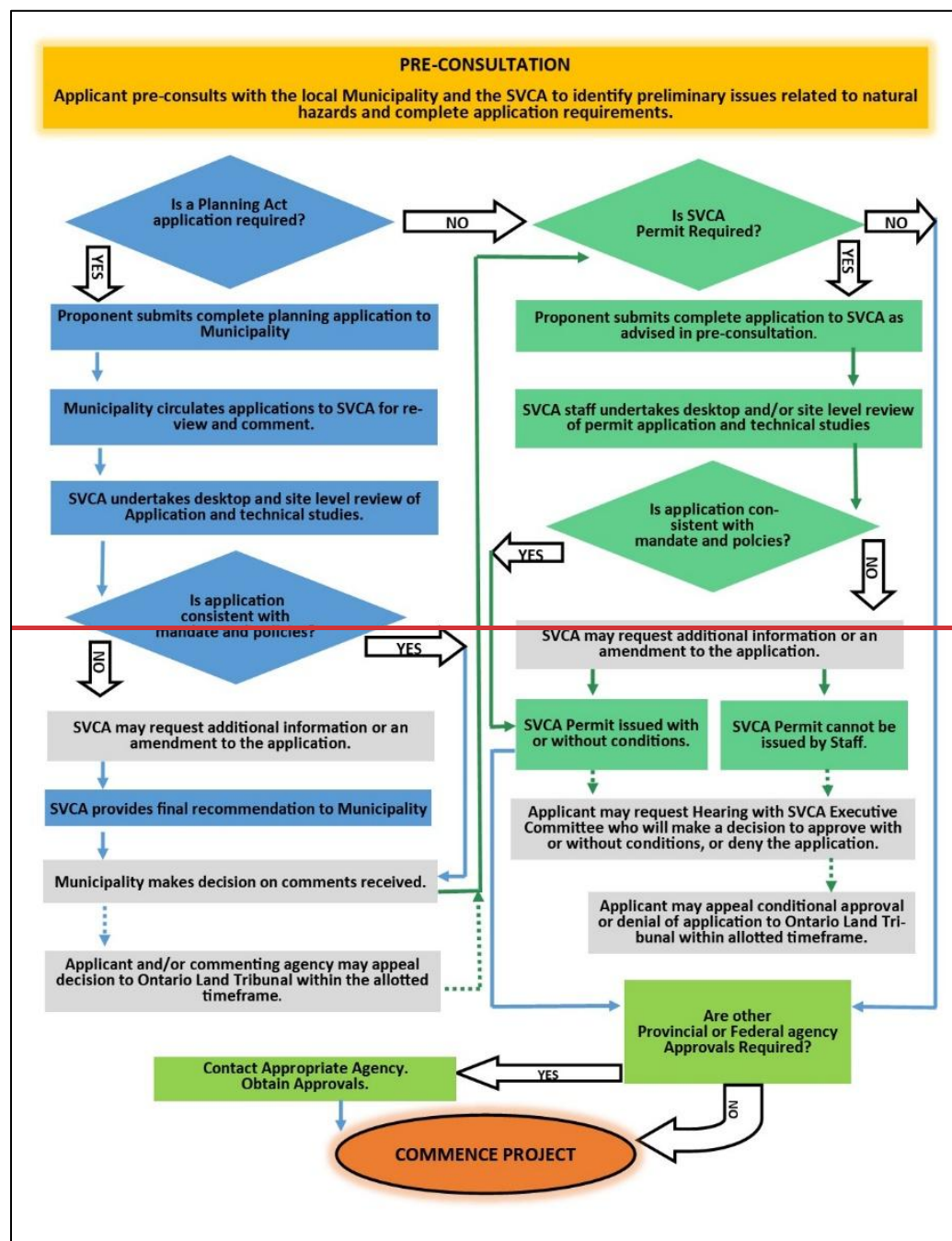
The following diagram (Figure 3-1) illustrates, in general, the plan review process carried out by SVCA:





**Figure 3-1 SVCA's Plan Review Process**

(OLD VERSION REPLACED TO FOCUS ON PLANNING PROCESS)



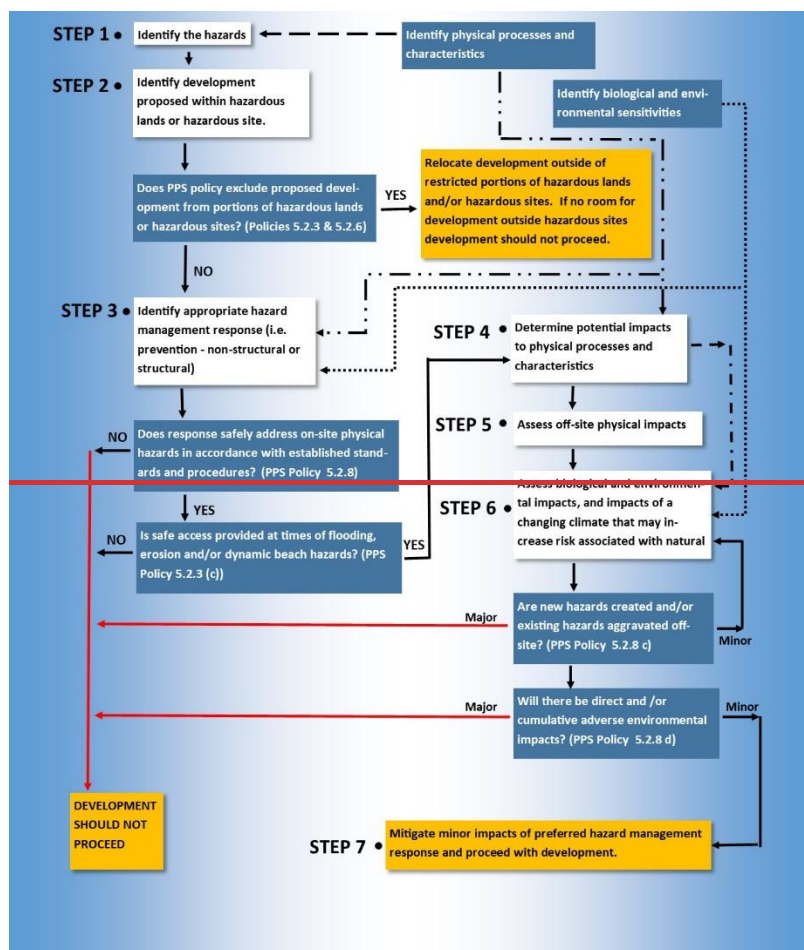
### 3.4.6 Identifying and Addressing the Hazards

To aid SVCA staff in evaluating an area proposed for development, where permitted under natural hazard policies, consideration shall be given to both the physical and ecological influences and impacts. This includes:

1. Identify the hazards,
2. Identify development proposed within the hazardous lands or hazardous sites,
3. Identify appropriate hazard management response,
4. Determine potential impacts to physical processes and characteristics,
5. Assess off-site physical impacts,
6. Assess biological or environmental impacts, and the impacts to the hazard from a changing climate, and
7. Mitigate minor impacts of preferred hazard management response.

This procedure, developed by MNR, focuses on some basic questions and issues that must be addressed in any development decision-making process. It is recognized that some natural hazards may be more complex than others. As such the level of evaluation will be site-specific and directly proportional to such factors as the size, severity, and type of risks and the potential physical, environmental and biological impacts that may result. The flow chart in Figure 3-2 will be used by SVCA staff as a general decision-making tool when evaluating development proposed within or adjacent to a natural hazard feature under the *Planning Act*. SVCA's planning and regulation policies in this manual must be referenced when evaluating permissible development, as SVCA's policies may be more restrictive. Staff can reference the following documents for more information on each step; (1) Understanding Natural Hazards (MNR, 2001); and (2) Technical Guide—River & Stream Systems Erosion Hazard Limit (MNR, 2002) for more information on each step.

(FIGURE OUTDATED AND REMOVED)



**Figure 3–2 Addressing the Hazards: 7 Step Procedure (Source: Technical Guide – River & Stream Systems Erosion Hazard Limit, MNR, 2002)**

### 3.4.6 Plan Review Fees

SVCA has individual fee schedules in place in each municipal / county agreement to assist in cost recovery for planning services. The plan review fees reflect the type and scale of the proposed development as well as the complexity of the application. Fee schedules are reviewed by SVCA staff annually and are updated in a manner that is consistent with the Statistics Canada “Consumer Price Index”. The plan review fees are consistent with the Ministry of Natural Resources, Policies and Procedures for Charging of Conservation Authority Fees.

### 3.4.7 Right to Appeal by SVCA

In keeping with the provisions of the *Planning Act*, and for the purpose of helping to ensure decisions under that Act are consistent with the natural hazards policies in provincial policy, SVCA has the ability to appeal all or part of a decision of the approval authority to the Ontario Land Tribunal, provided that the decision relates to natural hazard policies in any policy statement issued under the Act; and, that before the decision was adopted, SVCA made an oral submission at the public meeting or submitted comments to council. At the same time, it is recognized that there may be historical planning approval decisions that were made in the absence of current technical information which could now preclude development under the *Conservation Authorities Act* requirements. Wherever possible, if an issue remains unresolved, SVCA will work with the proponent and the municipality to pursue a resolution.



## SVCA Planning Areas of Interest

SVCA areas of interest pertaining to planning and development applications submitted under the *Planning Act* are defined under Ontario Regulation 686/21. The *Planning Act* also references conservation authorities (CAs) as public commenting bodies in relation to hazardous lands and sites. These reflect SVCA's mandate, role and responsibilities as described in Section 1, and fall under four key thematic areas, as follows:

### Health and Safety

SVCA has a direct mandate to protect public safety and minimize property damage from natural hazards. SVCA will recommend that development be kept out of known hazard areas and that decisions made by municipal partners recognize the importance of protecting human life and guard against property damage. SVCA will promote a position that is consistent with the Provincial Planning Statement (PPS) and in recognition of its regulatory responsibilities under Ontario Regulation 686/21 and Ontario Regulation 41/24, to ensure that new hazards are not created, that existing hazards are not aggravated and that adverse environmental impacts do not result.

### Watershed-Based Planning and Management

SVCA supports the sustainable management and wise use of natural resources within the watershed. There is potential that planning applications within and adjacent to hazard lands could have an adverse impact on environmental features which may in turn, affect the ecological sustainability of the area. For example, the concept of maintaining undisturbed buffers between areas proposed for development and natural features is a concept that is well understood and one that has broad acceptance. SVCA recognizes the importance of conservation buffers. Buffer zones help to stabilize stream banks, prevent erosion, and trap waterborne contaminants that can pollute watercourses, and they provide important habitat areas for critical species of fish and wildlife. Generally, buffers are needed to address:

- Access and maintenance issues,
- Attenuation of pollutants,
- Maintenance of existing ecological functions and hydrologic functions,
- External and unpredicted factors, and
- Areas of future potential enhancements.

When updating planning documents and making decisions for applications under the *Planning Act*, planning approval authorities shall have regard to all the natural hazard policies encompassed within Natural Hazard policies of the *Planning Act*, which includes consideration to environmental impacts. Specifically, development proposed within or adjacent to natural hazard features, where permitted in accordance with policy.

SVCA recognizes that as a watershed-based organization, there is an important focus on integrated human and natural processes to achieve ecosystem sustainability. As indicated in Section 2 of this manual, SVCA advocates for a comprehensive and integrated approach to planning and managing natural hazards that is consistent with the PPS. SVCA will promote the conservation and wise use of resources in the watershed.

### Watershed Science

SVCA recognizes the importance of science-based decision making and continuous improvement. To

~~this end, SVCA will support updates to comprehensive environmental studies to reflect advancements in science and information.~~

### **Stewardship**

~~SVCA recognizes that natural hazard management in the watershed requires the engagement of landowners and organized partners and stakeholders. SVCA will work with clients and partners to continue to promote on-the-ground action and will continue to recognize that the wise use and management of the watershed depends on shared ownership and collective action.~~

## **3.5 SVCA Position on Natural Hazards**

SVCA will take the following position on natural hazard planning:

- That development be directed away from areas of natural hazards where there is an unacceptable risk to public health and safety or of property damage in accordance with the natural hazard policies of the Provincial Planning Statement, as amended;
- That lands susceptible to natural hazards be placed in a protective designation in Official Plans and in a protective zone in Zoning By-laws to recognize the environmental hazard; and,
- That SVCA Board-approved policies be developed in accordance with the natural hazard policies of the Provincial Planning Statement, as amended from time to time.

## **3.6 SVCA Plan Input and Review Policies**

The following policies for plan input and review are established in accordance with SVCA's mandate, goals, and key principles for natural hazard management discussed above and in Sections 1 and 2 of this manual.

### **3.6.1 SVCA General Planning Policies – Natural Hazards**

Hazardous lands and hazardous sites are defined in the Provincial Planning Statement (PPS) as:

**Hazardous lands** include lands that could be unsafe for development due to naturally occurring processes associated with. Along the shorelines of the Great Lakes-St. Lawrence River System, this means the land, including that covered by water, between the international boundary, where applicable, and the furthest landward limit of the flooding hazard, erosion hazard or dynamic beach hazard limits. Along the shorelines of large inland lakes, this means the land, including that covered by water, between a defined offshore distance or depth and the furthest landward limit of the flooding hazard, erosion hazard or dynamic beach hazard limits. Along a river, stream and small inland lake systems, this means the land, including that covered by water, to the furthest landward limit of the flooding hazard or erosion hazard limits.

**Hazardous sites** defined in the PPS means property or lands that could be unsafe for development and site alteration due to naturally occurring hazards. These may include unstable soils (sensitive marine clays [Leda], organic soils) or unstable bedrock (karst topography).

SVCA takes the following approach to hazard land management:

- Preventing new development from locating in areas where there is a potential for loss of life and/or property damage from natural hazards,
- Protecting existing development from natural hazards by implementing structural and non-structural mitigation measures that may include the acquisition of lands that are subject to

known natural hazards,

- Assessing ingress and egress for areas that would be rendered inaccessible during times of flooding hazards, erosion hazards and/or dynamic beach hazards to ensure safe access is available for both people and vehicles,
- Providing notification and supporting emergency response and recovery measures through flood forecasting and early warning systems, and
- Coordinating between natural hazards management and planning and development related activities to ensure that decision makers have the necessary information they need and are well informed of any natural hazards,

Eliminating natural hazards completely is not possible and consequently, the approach taken is to manage the risk. Minimum standards for acceptable levels of risk to the public are established by the province.

SVCA adheres to the following in carrying out its natural hazard management responsibilities:

- Proper natural hazard management requires that natural hazards (flooding, erosion, dynamic beaches, karst bedrock, organic soils) be simultaneously recognized and addressed in a manner that is integrated with land use planning, ~~and maintains environmental and ecosystem integrity,~~
- Effective floodplain management can only occur on a watershed and littoral reach basis with due consideration given to the effects of development,
- Local conditions must be considered in the planning and management of natural hazards,
- Natural hazard management through land use planning requires overall coordination on the part of Municipalities, SVCA, MNR and MMAH, and
- New development which is susceptible to natural hazards, or which will cause or aggravate hazards to existing and approved land uses, ~~or which will cause adverse environmental impacts~~ will not be permitted unless the natural hazard ~~and environmental~~ impacts can be addressed.

In applying these guiding principles, SVCA has established the policy positions outlined below.

#### **3.6.1.1 Comprehensive Approach**

SVCA will recommend that a comprehensive approach to natural hazard management be adopted taking into consideration the risks to life and property, ~~economic feasibility (i.e. cost benefit analysis),~~ upstream and downstream impacts, ~~social impacts~~ and cumulative impacts ~~as well as the impact to natural systems and areas~~. SVCA will recommend that studies to support development consider the implications of the affected planning area and should be based on logical natural boundaries or planning area boundaries. Studies completed at this scale can characterize the cumulative effects of development.

#### **3.6.1.2 Provincial Standards**

SVCA will make recommendations consistent with established provincial policy, standards and guidelines when determining the extent of hazardous lands and sites, and when assessing impacts of development and site alteration on the hazards.

### 3.6.1.3 Mitigation for Existing Development

Where the policies of this manual support additions, reconstruction, and infilling for existing development, SVCA will promote mitigation and remediation works for existing development within hazardous land through the preparation and review of technical studies.

### 3.6.1.4 Sensitive Land Uses

SVCA will not recommend the following types of development on lands susceptible to natural hazards:

- 1) **Institutional** and associated uses including hospitals, nursing homes, pre-schools, day cares and schools, which may pose a significant threat to the safety of inhabitants if involved in an emergency evacuation situation because of flooding, failure of flood proofing and/or protection works, and/or erosion.
- 2) **Uses associated with essential services** such as those provided by fire, police and ambulance stations and electrical substations that may be impaired during a flood emergency because of flooding, failure of flood-proofing and/or protection works; or
- 3) **Uses associated with the manufacture, collection, storage, disposal and/or consumption of hazardous substances** that may pose an unacceptable threat to public safety if they were to escape their normal containment/use because of flooding, failure of flood proofing and/or protection works and/or erosion.

### 3.6.1.5 Technical Guidelines and Studies

Where technical reports are required by SVCA to support proposed development under the *Planning Act*, SVCA staff will refer to the technical guidelines in the Appendices of this manual where available. The guidelines will be provided to applicants during application pre-submission consultation. In the event a technical submission is not in accordance with SVCA's guidelines, the report may be peer reviewed by an expert at the applicant's cost.

SVCA's technical guidelines will be developed in consultation with experts based on the latest science and methodologies. Amendments to the technical guidelines can be updated as a housekeeping item on an as needed basis to be approved by the General Manager and SVCA's Executive Committee.

When reviewing applications submitted under the *Planning Act*, SVCA may require the following technical studies be submitted to support the application;

- Geotechnical/Soils Report,
- Watershed or Sub-watershed Plan,
- Environmental Servicing Plan,
- Planting or Vegetation Plan,
- Vegetation Preservation Plan,
- Watercourse and/or Slope Stabilization Plan,
- Slope Stability – Erosion Study,
- ~~Environmental Impact Study,~~
- Stormwater Management Plans,
- Erosion/Sediment Control Plan,

- Grading and Drainage Plan,
- Floodplain Study,
- Coastal Report,
- Fluvial Geomorphology Report,
- Water Budget, Hydrological and Hydro-Geological Studies,
- Compliance Monitoring Plan, and/or
- Any additional report or study required by SVCA to provide additional information relating to a specific concern.

When development proposals involving site disturbance or alterations are submitted, SVCA will require a site-specific evaluation.

#### **3.6.1.6 Site Specific Technical Studies**

SVCA will take the approach that a site-specific study (a technical study for a specific property or group of properties) may be acceptable due to the scale of the development or the limited development area available. Although this type of study has a narrower scope than one that considers the entire affected planning area, it must still address the natural hazards of the area. It should be noted that due to its narrower scope, the site-specific study is less capable of assessing cumulative impacts on the system and as a result, the Authority will take a more precautionary approach when assessing the acceptability of impacts.

#### **3.6.1.7 Natural Systems Supporting Conservation of Hazardous Lands**

SVCA supports and encourages an ecosystem approach to land use planning. SVCA will recommend development be directed away from the following systems that support conservation of hazardous lands in a natural state;

- Regulatory floodplains,
- Areas of unstable bedrock, soils and slopes,
- ~~Valleylands~~Riverine erosion hazards,
- Wetlands,
- ~~Woodlands,~~
- ~~Surface water features~~Watercourses,
- Ground water features associated with hazardous lands,
- Shorelines of small inland lakes, and
- Shoreline of Lake Huron and related flooding and erosion hazards and dynamic beaches.

#### **3.6.1.8 Climate Change**

In accordance with the Provincial Planning Statement, SVCA will recommend planning authorities prepare for the impacts of a changing climate that may increase the risk associated with natural hazards in the following ways:

1. Promote the use / creation of low impact development, green infrastructure and technologies to reduce runoff from new/existing development (i.e., engineered wetlands for SWM, rain

gardens, bioswales, forests, parks, and riparian zones, etc.).

2. Require new development (including re-development) be setback as far as feasible from flooding and erosion hazards in preparation for increased potential risks associated with unpredictable weather patterns.
3. Recommend retention of existing wetlands and woodlands (natural infrastructure) in the watershed, regardless of size and provincial classification, and encourage wetland construction and tree/vegetation planting to promote climate change resiliency.
4. Encourage existing green spaces (wetlands, woodlands, etc.) be maintained for new lot development.
5. Encourage municipalities/counties to establish tree preservation by-laws.

### **3.6.1.9 Safe Access (Ingress/Egress)**

The consideration for safe ingress and egress (safe access) when reviewing proposals for development in hazard lands and development activities within the Regulated Area associated with SVCA's Regulation and Permitting Program (Section 4), is best described in Appendix 6 of the Ministry of Natural Resources, Technical Guide for River and Stream Systems Flooding Hazard Limit (2002). The policies below consider these safe access guidelines for both vehicles and pedestrians in the flood hazard but should also be considered for access through other hazardous lands (i.e. erosion hazards) in accordance with natural hazard policy, which states:

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Development and site alteration shall not be permitted within areas that would be rendered inaccessible to people and vehicles during times of flooding hazards, erosion hazards and/or dynamic beach hazards, unless it has been demonstrated that the site has safe access appropriate for the nature of the development and the natural hazard.

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The ability for the public and emergency operations personnel (police, firefighters, ambulance, etc.) to safely access hazardous lands during an emergency, such as a flooding or erosion event, is an important factor when considering any application for development. Development applications in hazard lands must be reviewed to ensure access to the proposed development (via municipal roadway or private laneway) is safe and appropriate for the proposed use and the natural hazard. The provision of means by which people, vehicles and equipment can gain access to and from the hazard feature for maintenance and/or construction of remedial works must also be considered. The highest priorities for access to emergency vehicles should be given to police, ambulance and fire services, especially where evacuation is a distinct possibility in areas surrounded by flooding. All local agencies involved in local emergencies should be consulted regarding the adequacy of access.

Major accessways to development potentially located in the flood fringe or other hazardous land must be examined. It is not acceptable to have development isolated during a flood event because roads and escape routes are not passable.

- 1) New Development, Development Activities and Infilling (including lot creation on existing lots of record)
  - a. SVCA will recommend new development (residential, commercial), development activities, and the creation of new lots be prohibited in dangerous or inaccessible portions of a natural hazard, including:



- i. Areas where safe access cannot be achieved, and
  - ii. A floodway, regardless of whether the area of inundation contains high points of land not subject to flooding.
- b. Under a regulatory flood event, where dry access cannot feasibly be achieved, access to and from a site may be considered 'safe' for both pedestrians and automobiles where the following depth and velocity criteria are met:
  - i. The depth of flooding to the site of the building does not exceed 0.3 metres,
  - ii. The velocity of floodwaters overtopping the access route does not exceed 1.7 metres per second (1.7 m/s), and
  - iii. The product of flooding depth and velocity to the site of the building does not exceed 0.4 square metres per second (0.4 m<sup>2</sup>/s).
- c. Notwithstanding the above, ingress/egress shall remain dry at all times for institutional buildings servicing the sick, the elderly, the disabled or the young and in buildings utilized for public safety (i.e. police, fire, ambulance and other emergency measures) purposes, and
- d. Notwithstanding the above, where the proposed development requires access onto an existing flooded roadway or access to a roadway is subject to flooding where the depth and velocity criteria above cannot be met, the development may be permitted provided the following is addressed:
  - i. Access to/from the site must have flood depths and velocities less than or equal to those experienced on the existing roadway, and
  - ii. Safe alternate or secondary access for pedestrians and emergency vehicles that is appropriate for the nature of the development and the natural hazard is provided, or
  - iii. Where the affected municipal emergency services provide confirmation that acceptable provisions for emergency ingress/egress, appropriate for the nature of the development and the flood hazard are available for a site and/or the nature of the development is such that a significant risk to property damage and public health is not created.

## 2) Existing Development – Additions, Reconstruction, and Increase to Habitable Space

For existing development, safety risks are a function of the occupancy of structures, the susceptibility of the structure and the access routes to the structure. The following factors will be considered in addition to Section 4 policies when reviewing proposed additions, reconstruction, and increases to habitable space where safe access is being evaluated:

- a. The degree of risk with the use of the existing access,
- b. The ability to modify the existing access or construct a new safe access,
- c. The ability to find and use the access during an emergency,
- d. The ability and willingness of the municipality (emergency vehicles) to use the access,
- e. The risk to public health will be controlled by limiting the size (and therefore limiting the occupancy) of additions or reconstruction projects. If the risk is determined to be too great, no

- modifications/alterations/reconstructions of existing structures will be considered, and
- f. Redevelopment should not be permitted if it results in greater risk to safe access.

### 3) Non-Habitable Structures

Where a non-habitable structure requires wet floodproofing, access ways into and from the building should allow for safe pedestrian movement and will be reviewed by SVCA on a case-by-case basis. For example, a product of depth and velocity less than or equal to  $0.4 \text{ m}^2/\text{s}$  defines the low-risk area for pedestrians provided depth does not exceed 0.8 m and the velocity does not exceed 1.7 m/s.

#### 3.6.1.10 Maintenance Access Allowance

SVCA will recommend through conditions of draft plan approval or consent those applications adjacent to flooding, erosion hazard, and dynamic beach hazards be required to include protection of the flooding, erosion, and dynamic beach hazards with associated allowances in perpetuity. It is SVCA's preference that this be done through dedication to the municipality however there may be other acceptable methods to ensure that these areas are protected.

#### 3.6.1.11 Land Use Designations and Zoning

SVCA will recommend that official plans (OP), zoning by-laws (ZB), and applications for OP/ZB amendments identify and address all natural hazards in accordance with the Provincial Planning Statement (PPS) and that appropriate provisions for safe ingress and egress (i.e. safe access) be identified in accordance with SVCA policies (see Section 3.6.1.9). SVCA's safe access policies are in accordance with current provincial guidelines.

SVCA will not support proposed zoning, land use designation or official plan changes that further intensify land use (i.e. seasonal residential to year-round residential, or single family residential to multi-unit dwelling) within hazardous lands or where safe access cannot be achieved.

#### 3.6.1.12 Lot Creation

##### New Multi-Residential Lot Creation

In consideration of the long-term management concerns related to risks to life and property, SVCA will recommend that any new multi-residential lots created through plan of subdivision or consent are be set back a distance from hazardous lands and sites, to be determined through the completion of a technical report to the satisfaction of SVCA, and be consistent with SVCA and provincial / municipal policy.

- ~~1) SVCA will not recommend the creation of new lots through plan of subdivision or consent that extend into hazardous lands and sites, in consideration of the long-term management concerns related to risks to life and property.~~

##### **Individual Lot Creation on Existing Lots of Record**

- 1) Lot creation by individual severance may be supported provided there is a sufficient lot area outside of the hazardous land or site, including flooding/erosion access allowances to accommodate the proposed development.
- 2) SVCA will not recommend the creation of new lots unless it has been confirmed that a suitable building envelope exists outside the hazard limit. that is consistent with relevant SVCA requirements. This includes sufficient space within the suitable building envelope to incorporate necessary infrastructure including ~~private~~ sewage disposal systems, wells, driveway and parking areas, and sufficient allowance adjacent to the hazard for maintenance.



- 3) Creation of a new lot, in some circumstances, will be supported where the creation of a new lot is for ~~the purpose of~~ flood and/or erosion control works or for passive non-structural uses which do not affect flood flows.

### General

- 1) SVCA will not recommend the creation of new lots unless safe access can be achieved without creating new hazards and aggravating existing hazards. See [Section 3.6.1.9](#) for SVCA's safe access policies.
- 2) SVCA will not recommend the creation of new lots where new access is required through environmentally sensitive lands (i.e. lands sensitive to flooding and erosion impacts), without confirmation that the impacts will be mitigated via technical study.

#### 3.6.1.13 Structures Abutting Hazardous Lands

Where a proposal involves a building, structure or ancillary use that abuts the limit of flooding, erosion, or dynamic beach hazards, the proposal will be considered by SVCA to be flood/erosion susceptible and the policies of this document will apply. Ancillary uses can include such things as driveways, parking lots and/or sewage disposal systems. SVCA will make recommendations to the planning authority to this effect.

#### 3.6.1.14 Existing Development – Redevelopment, Additions, and Infilling on Existing Lots of Record

It is not the intent of the Provincial Planning Statement (PPS) that the presence of existing development be used as a justification for increasing or intensifying the development. The first and primary premise of PPS Natural Hazard Policy is to direct development and site alteration to locations outside of hazardous lands and sites.

When a *Planning Act* application is circulated to the SVCA where infilling or redevelopment, or additions/alterations to existing structures is being considered within hazardous lands or sites, SVCA will advise that the development and site alteration must adhere to PPS Policy 5.2.3 (identifies where development and site alteration is not permitted) and fulfil all the requirements outlined in PPS Policies 5.2.5 and 5.2.8. Where all the requirements of Policies 5.2.5 and 5.2.8 cannot be fulfilled, SVCA will recommend that the development and site alteration should be directed to a location outside of the hazardous lands.

SVCA's preferred management approach is prevention. Prior to any structural protection works being considered, it should be clearly demonstrated that the following options are not feasible:

1. Relocation of existing building,
2. Siting of building/structures landward of the hazardous lands, and
3. Acquiring adjacent properties to provide additional developable area landward of the hazardous lands.

Where development (including additions, alterations, infilling, redevelopment, replacement, etc.) is being considered within the hazardous lands, SVCA will critically evaluate the development with respect to the flooding, erosion, dynamic beaches, unstable soils and bedrock, ingress/egress provisions, the creation or aggravation of hazards at other sites, and environmental considerations. The proposed must also meet SVCA's [Section 4](#) policies. SVCA will make recommendations based on this critical assessment and will include, but not be limited to several key factors:

- Ensuring that new buildings are in keeping with size and nature of existing buildings,
- Utilizing the total lot depth to maximize the siting of development as far from the hazard as possible,
- Preventing proposed changes which intensify the land use (i.e., seasonal to permanent, increased dwelling units),
- Consideration of the various and "preferred" floodproofing measures as outlined in Section 4.7.4 of this document,
- Ensuring that the development does not encroach within the stable slope allowance from top of bank or from the toe of slope erosion hazard as described in Section 4.8 of this document,
- Using extreme caution in areas of high to severe recession rates,
- Consideration of the risk and impact that a changing climate may have on the development,
- Being aware of and recognizing that along cohesive shorelines ongoing downcutting of the nearshore profile may seriously undermine existing protection works in the short-term and that this undermining may go undetected by a casual, visual observation of the protection works from the shore,
- Encourage the design of buildings to be readily moveable by design,
- Evaluating the condition, effectiveness, and estimated residual design life of any existing protection works at the site (residual life should be determined based on suggested design life of new structures less the approximate age of the existing structure),
- Evaluating the condition, effectiveness, and estimated residual design life of adjacent protection works,
- Minimizing impacts to dynamic beach shores.

In accordance with PPS policy 5.2.3, SVCA will recommend that the following not be permitted for existing structures:

1. Additions to structures (footprint and square footage) within the floodway, stable slope allowance, and the dynamic beach hazard,
2. Accessory structures (including pools) within the floodway, stable slope allowance and the dynamic beach hazard, and
3. Replacement of structures destroyed by flooding and/or erosion.

#### **3.6.1.15 Infrastructure, Stormwater Management, and Erosion and Sediment Control**

Where infrastructure, stormwater management (SWM), and erosion and sediment control is required as part of a *Planning Act* application and where proposals are in or partially within the SVCA's areas of interest, SVCA will review these plans for impacts to natural hazard features. Where SVCA / municipal service agreement exists, SVCA may provide technical review services on behalf of the planning authority. SVCA will recommend that planning applications associated with these types of structures, and the infrastructure itself, are consistent with all other policies contained in this document.

In addition to meeting SVCA's Plan Review and Input policies, any component of any development proposal that requires infrastructure services (storm, sanitary) that are situated within a SVCA Regulated Area require a permit in accordance with the policies outlined within Section 4 of this

document.

SVCA is committed to implementing the watershed-based planning principles for natural hazard management outlined in this document. As such, for new multi-lot creation or large-scale development proposals, SVCA will recommend low impact development and green infrastructure be used when stormwater management is required.

### **Public and Private Infrastructure**

SVCA will not recommend the encroachment of individual sewage disposal systems or public infrastructure (roads, sewers, flood and erosion control works) and various utilities (pipelines) within ~~valleylands~~ hazardous lands or sites unless it can be demonstrated that such works cannot be located outside of the ~~valleyland~~ hazards. SVCA will recommend the location of private and public infrastructure within hazardous lands or sites ~~valleyland~~ only where the activity is being established under an approved Environmental Assessment and/or if it has been demonstrated to the satisfaction of SVCA that the infrastructure will be safe from the hazard and that the proposed conforms to policies contained in Sections 3.6.1 and 4 of this document.

### **Stormwater Management Ponds / Facilities in Natural Hazard Areas**

SVCA will recommend that Stormwater Management (SWM) ponds and facilities be located outside of natural hazard areas. See [Section 3.7.1.4](#) for SWM ponds proposed in floodplains.

### **Low Impact Development and Green Infrastructure**

In accordance with the planning methodologies discussed in [Sections 2.2 and 2.3](#), SVCA will recommend Low Impact Development (LID) and green infrastructure be used for stormwater management when reviewing *Planning Act* applications for new development where appropriate. Low Impact Development practices are increasingly being used to deal with problems related to urban stormwater runoff including erosion, sedimentation and pollution.

The traditional approach to dealing with stormwater has been to move it away from city streets as quickly and efficiently as possible. This results in large volumes of water entering watercourses at high velocities, carrying the pollutants picked up along the way and increasing flooding and erosion to receiving watercourses.

By contrast, LID deals with stormwater by mimicking natural water cycles. It increases the infiltration of stormwater into the soil, where it can be filtered and/or absorbed by plants. Low Impact Development is a lower-cost alternative to conventional grey infrastructure and provides several other benefits, including:

- Improved water quality
- Improved groundwater recharge
- Reduced number of costly flooding events
- Reduced urban heat island effects
- Restored aquatic habitat
- Increased habitat for pollinators and other wildlife
- Enhanced neighborhood beauty

SVCA will recommend the following for new development:

1. All existing natural infrastructure / features contributing to stormwater and flood control

should be maintained (i.e. wetlands, woodlands, natural watercourse buffers, etc.).

2. Upon pre-consultation for new development, SVCA staff will provide clients with stormwater management guidelines that include recommendations for LID and green infrastructure.

### **Erosion and Sediment Control**

SVCA will recommend the implementation of erosion control at the source and supplementary treatment between the source and receiving watercourse; and further that sediment and erosion control measures be used on all construction sites to limit the effect of development on the surrounding environment and receiving drainage network.

#### **3.6.1.16 Conservation or Restoration Projects and Passive Recreational Use**

SVCA will recommend conservation or restoration projects, or passive recreational use associated with *Planning Act* applications within hazard lands only where it has been demonstrated to the satisfaction of SVCA that the control of flooding, erosion, dynamic beaches, and unstable soil and bedrock will not be negatively affected and where the proposed conforms to Section 4 of this document.

## 3.7 SVCA Hazard Specific Planning Policies

### 3.7.1 Riverine Flooding and Erosion Hazards

Below is a summary of riverine flooding and erosion hazards as defined by the Provincial Planning Statement and implementing technical guidelines. Section 4 of this document expands on these hazards from a regulatory position.

River and stream valleys perform important hydrological and ecological functions. River and stream valleys are shaped and re-shaped by the natural processes of erosion, slope stability, and flooding. Erosion and slope stability are related processes that are sometimes linked together. Erosion is the continued loss of earth material (i.e. soil or sediment) over time because of the influence of water or wind action. Slope stability, usually described in terms of the potential for slope failure, refers to a mass movement of earth material, or soil, sliding down a bank or slope face because of a single event in time.

The degree and frequency with which physical change will occur depends on the interaction of a number of interrelated factors including hydraulic flow, channel configuration, sediment load in the system, storage and recharge functions and the stability of banks, bed and adjacent slopes. The constant shaping and re-shaping of the river and stream systems by the physical processes can result in hazardous conditions that can pose a risk to life and result in property damage.

Erosion hazards pose a threat to life and property through the loss of land due to human or natural processes. The erosion hazard limit is determined using the 100-year erosion rate (the average annual rate of recession extended over a hundred-year time span), and includes allowances for toe erosion, meander belt, and slope stability. The erosion hazard component of the actual river and stream systems is intended to address both erosion potential of the actual river and stream bank as well as erosion or potential slope stability issues related to valley walls.

Flooding of river or stream systems typically occurs following a spring freshet and may occur because of extreme rainfall events. Rivers naturally accommodate flooding in their valleys. Historically, development occurred in floodplain areas because of the availability of water for power, transportation, energy, waste assimilation and domestic as well as industrial use. However, development within the floodplain is susceptible to flooding which can result in property damage and/or loss of life.

The exact limits of a confined or unconfined valley will be determined through site specific field investigations and technical reports (where required). These limits will be established and confirmed to the satisfaction of SVCA and the affected planning authority, as appropriate.

The limits of the flood hazard will be determined through SVCAs floodplain mapping program in accordance with established Provincial standards. Where floodplain limits for a watercourse are required and not available, the applicant (or agent) is responsible for carrying out and completing appropriate technical reports to the satisfaction of SVCA and the affected planning authority, as appropriate.

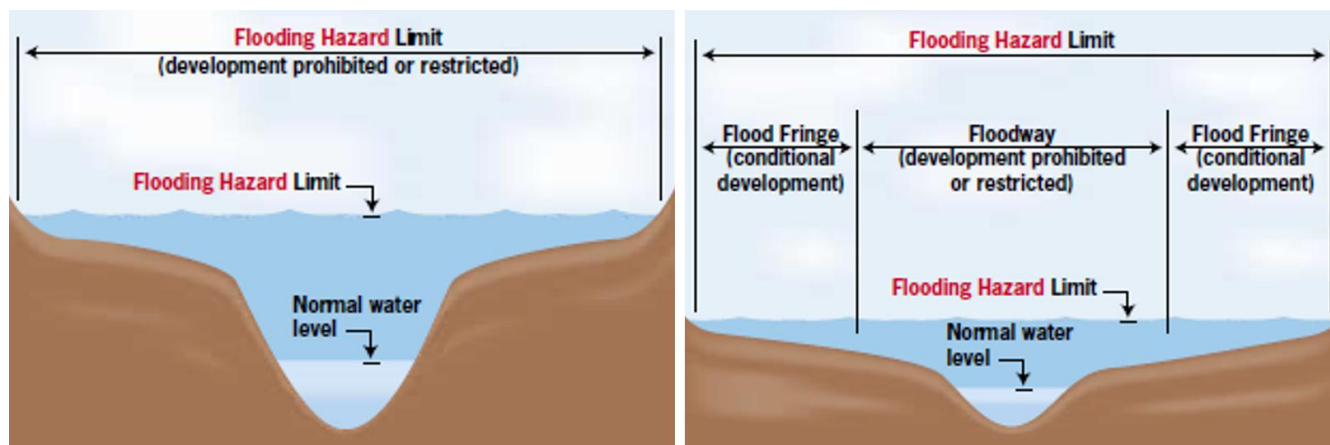
Where development proposals or *Planning Act* applications are within or close to flooding and erosion hazards~~valleylands~~, SVCA may require the submission of a Vegetation Plan, a Tree Preservation Plan and/or a Tree Management Plan for review and approval.

Where there are concerns with *Planning Act* applications on potentially unstable slopes, a study using accepted geotechnical principles, signed and stamped by a Qualified Engineer, may be required to

determine a safe setback from the top of bank (i.e. most slopes steeper than 3:1 are considered potentially unstable, slopes in sandy soil areas may be unstable if the slope is 5:1). Any such study would need to be reviewed and approved by SVCA.

### **Riverine Flooding: One Zone Floodplain Concept**

Across the watershed, there are areas where SVCA applies a one-zone concept to floodplain management based on the regulatory flood standard, in accordance with Provincial standards. In a one-zone concept, the entire area within the flood hazard limit is one management unit. It is referred to as the floodway. The one-zone concept is the most restrictive but also the most effective way to manage flood hazards from a risk management perspective.



**Figure 3-2 Riverine Flood Hazard – One Zone Concept (left), Two Zone Concept (right)**

### **Riverine: Two-Zone Floodplain Concept:**

This concept identifies the floodway and the flood fringe. The floodway refers to that portion of the floodplain where development and site alteration would cause a threat to public health and safety and property damage. It is that portion of the floodplain required for the safe passage of flood flow and/or that area where flood depths and/or velocities are such that they pose a potential threat to life and property damage. The flood fringe lies between the floodway and the edge of the floodplain. Depths and velocities of flooding in the flood fringe are much less than those in the floodway. The flood fringe is the portion of the floodplain where development may be permitted subject to certain established standards and procedures.

The technical considerations used to determine the floodway-flood fringe delineation and the suitability of applying a Two-Zone policy are described in the Ministry of Natural Resources Technical Guide River and Stream Systems Flooding Hazard Limit (2002).

A Two-Zone Policy Area permits new development or redevelopment in the flood fringe provided that it is protected to the level of the Regulatory Flood and consistent with Two-Zone policies. A Two-Zone Policy Area may be considered where the SVCA, in cooperation with the municipality, after due consideration of local circumstances, agrees that application of the concept is suitable. The feasibility of a Two-Zone Policy Area requires the examination of several factors and implementation requires the assurance that various conditions will be complied with. Where the SVCA and the municipality agree to the use of a Two-Zone Policy Area, appropriate official plan designations and zoning must be put into place.

It is not the intention that a two-zone approach would apply across the watershed. A Two-Zone policy may be considered for new infill development in existing settlement areas. The two-zone concept is



explained in more detail below.

The two-zone concept is not intended to be considered on a lot-by-lot basis, but on a sub watershed or major reach basis. A number of community related and technical criteria as outlined by the Province including local need, changes in land use, administrative capability, constraints to the provision of services, frequency of flooding, physical characteristics of the valley, impacts of proposed development (flood levels at the site, upstream, and downstream), feasibility of floodproofing, and ingress and egress are taken into consideration when determining whether or not to implement a Two-Zone Policy. Within the SVCA watershed, Silver Creek in Walkerton is one area where a modified Two-Zone Policy applies. Portions of the communities of Walkerton, Paisley, Teeswater, Neustadt, and Durham are located within Two-Zone floodplain policy areas.

#### **3.7.1.1 Floodplain Lands Designation**

SVCA will recommend that floodplain lands be placed in a separate designation with appropriate policies to reflect the Provincial Planning Statement (PPS). SVCA will recommend that floodplain lands be placed in an appropriate zone to recognize the hazard.

#### **3.7.1.2 Floodplain Mitigation**

SVCA will recommend that development and/or site alteration within the flood fringe be required to comply with the floodproofing requirements in [Section 4.74](#), and the vehicular and pedestrian safe access requirements in [Section 3.6.1.9](#).

#### **3.7.1.3 Existing Development in the Floodplain**

In addition to [Section 3.6.1.14](#) of this document, SVCA will recommend approval of *Planning Act* applications where existing development occurs within the floodplain, provided the proposed development:

1. Is not located in a floodway,
2. Is floodproofed to the satisfaction of the SVCA,
3. Will not be subject to flows that could cause structural damage,
4. Will not affect flood flows,
5. Safe Access is provided in accordance with [Section 3.6.1.9](#), and
6. Conforms to the policies outlined in Section 4.

#### **3.7.1.4 Stormwater Management (SWM) Facilities in Floodplains**

SVCA may support the location of SWM facilities in the floodplain if it can be demonstrated there is no feasible alternative location outside of the floodplain, in accordance with [Section 3.6.1.15](#); and that, there is a net public benefit that will result. Encroachment of SWM facilities into the floodplain must be justified with a catchment scale assessment as part of a Catchment Strategy, Area Plan, Sub watershed Plan, Master Drainage Plan or *Environmental Assessment Act* process. This type of assessment provides the opportunity to evaluate the location and function of SWM facilities based on technical, environmental, economic, and social factors. The following principles will be considered when assessing proposals to locate SWM facilities in the flood plain:

1. The impact of the SWM facility on floodplain function (conveyance, flood storage etc.) and implications for other natural hazards,

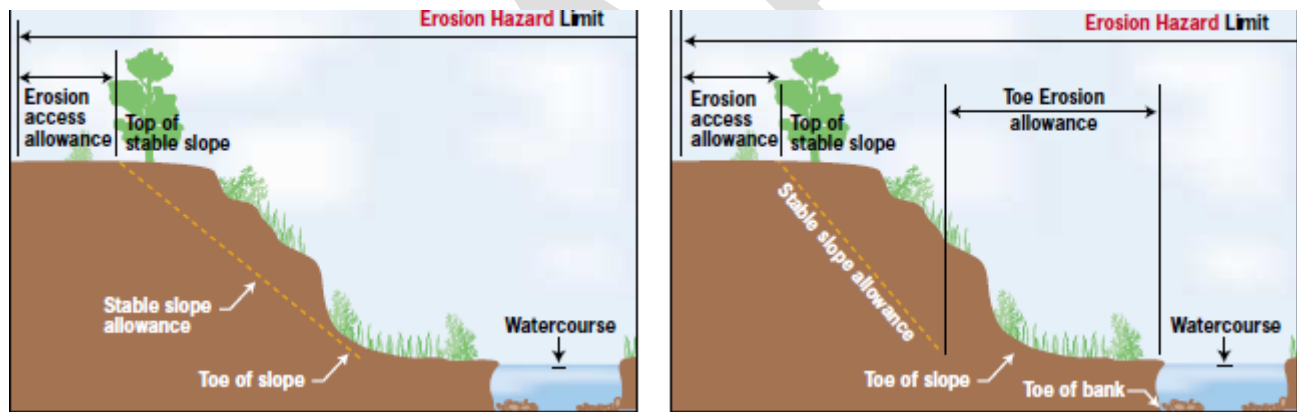
2. The net ecological benefit of locating the SWM facility in the floodplain, and
3. Cultural benefits of locating the SWM facility in the floodplain. While cultural benefits are considered, the natural hazard implications are paramount.

### Hazard Limit of Confined and Unconfined River Valleys

The SVCA watershed features confined and unconfined river valley systems. The application of the erosion hazard limit for rivers and stream systems is based on two simplified landforms, confined and unconfined systems.

The limit of the river or stream valley is the furthest extent of the erosion hazard or flooding hazard plus an allowance. [Section 4.8](#) identifies the approach taken to identify the erosion hazard and includes detailed information for both confined and unconfined systems.

Systems where the watercourse is located within a valley corridor, either with or without a floodplain, and is confined by valley walls. The watercourse may be located at the toe of the valley slope, in close proximity to the toe of the valley slope (less than 15 metres), or removed from the toe of the valley slope (more than 15 metres). The watercourse can contain perennial, intermittent or ephemeral flows and may range in channel configuration, from seepage and natural springs to detectable channels. The valley walls are clearly definable from the surrounding landscape, either by field investigations, aerial photography or map interpretation and the valley slopes are greater than or equal to two metres in height.

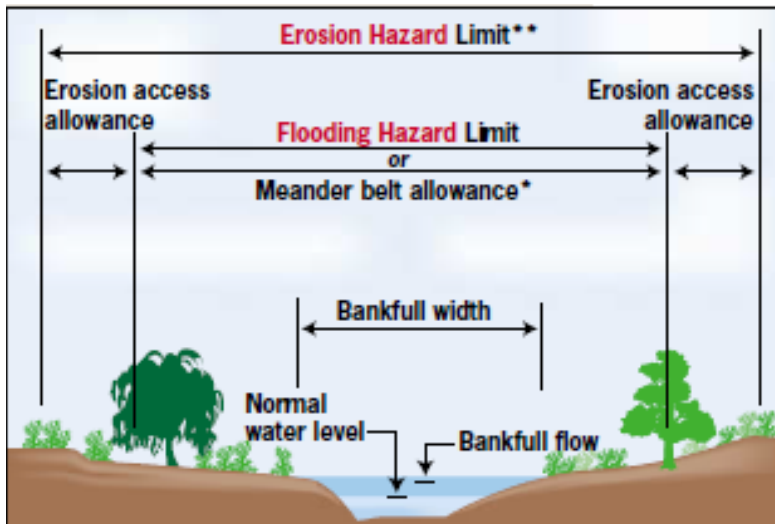


**Figure 3-3 Confined River Valley Erosion Hazard Limit**

Unconfined systems exist where a watercourse is not located within a valley corridor with discernable slopes and is not confined by valley walls. The watercourse can contain perennial, intermittent or ephemeral flows. Generally, these less-defined features are found in flatter or gently rolling landscapes. In addition, unconfined systems include those features that exhibit the features or characteristics of a confined system, but the valley slopes are less than two metres in height.

The limit of an unconfined system is determined by the greater of the riverine flood hazard or the riverine erosion hazard, as described in more detail in [Section 4.8.4](#). Where topography does not define the valley form well, criteria based on flood lines or the meander belt width of a river system may be used. Valleys are dynamic and should be delineated based on the historic, current and likely future zone of geomorphic influences.





**Figure 3-4 Unconfined River Valley Erosion Hazard Limit**

### 3.7.1.5 Natural Features Maintained within the Riverine Erosion Hazard

SVCA will recommend that lands within the riverine erosion hazard limit existing valleylands be maintained in their natural state where not doing so would likely aggravate the erosion hazard.

### 3.7.1.6 Riverine Erosion Hazard Setbacks

SVCA will indicate to planning authorities that where safe setbacks are determined using a geotechnical study, the setback must be based on the natural state of the slope and not through the use of structures or devices to stabilize the slope.

### 3.7.1.7 Existing Development within the Riverine Erosion Hazard

Where permitted in accordance with the natural hazard policies of the Provincial Planning Statement, the general planning policies in [Section 3.6.1](#) and the regulation and permitting policies in [Section 4.8](#) of this document, SVCA will recommend that development and/or site alteration within the riverine erosion hazard ~~of a valleyland~~ be required to comply with provincial standards for protection works and vehicular and pedestrian access requirements (See [Section 3.6.1.9](#) for SVCA safe access policies).

### 3.7.1.8 ~~Valleyland Crossings~~

~~SVCA will recommend that valleyland crossings meet the following criteria:~~

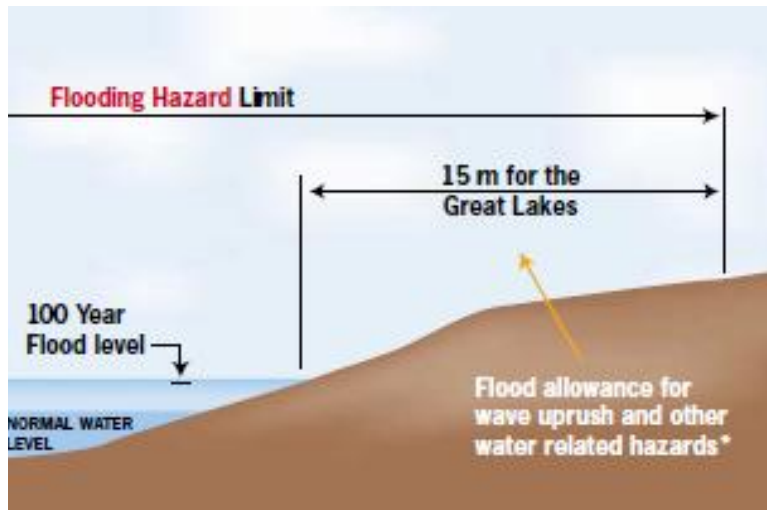
- ~~➤ The crossings are proposed to be located in areas of low sensitivity,~~
- ~~➤ A satisfactory erosion and sediment control plan be submitted for approval,~~
- ~~➤ A site restoration plan is completed and submitted for approval,~~
- ~~➤ The number of crossings be kept to the minimum required for the proposed development,~~
- ~~➤ Crossings are located as close to perpendicular as possible to the valleyland or watercourse and are designed in a manner that is most sensitive to the characteristics of the valley,~~
- ~~➤ The design of valley crossings considers the sensitivity of flora and fauna and identifies mitigative measures, and~~
- ~~➤ The crossing does not create a new hazard or increase an existing hazard.~~

### 3.7.2 Lake Huron Shoreline Flooding and Erosion Hazard

Below is a summary of Lake Huron flooding and erosion hazards as defined by the Provincial Planning Statement and implementing technical guidelines. [Section 4.6](#) of this document expands on these hazards from a regulatory position.

#### Shoreline Flooding Hazard Limit

The limit of flooding along the Lake Huron shoreline is defined as the [100-year flood level as determined by SVCA](#), plus an allowance for wave uprush and other water related hazards (i.e. ice piling/jamming, ship-generated waves).

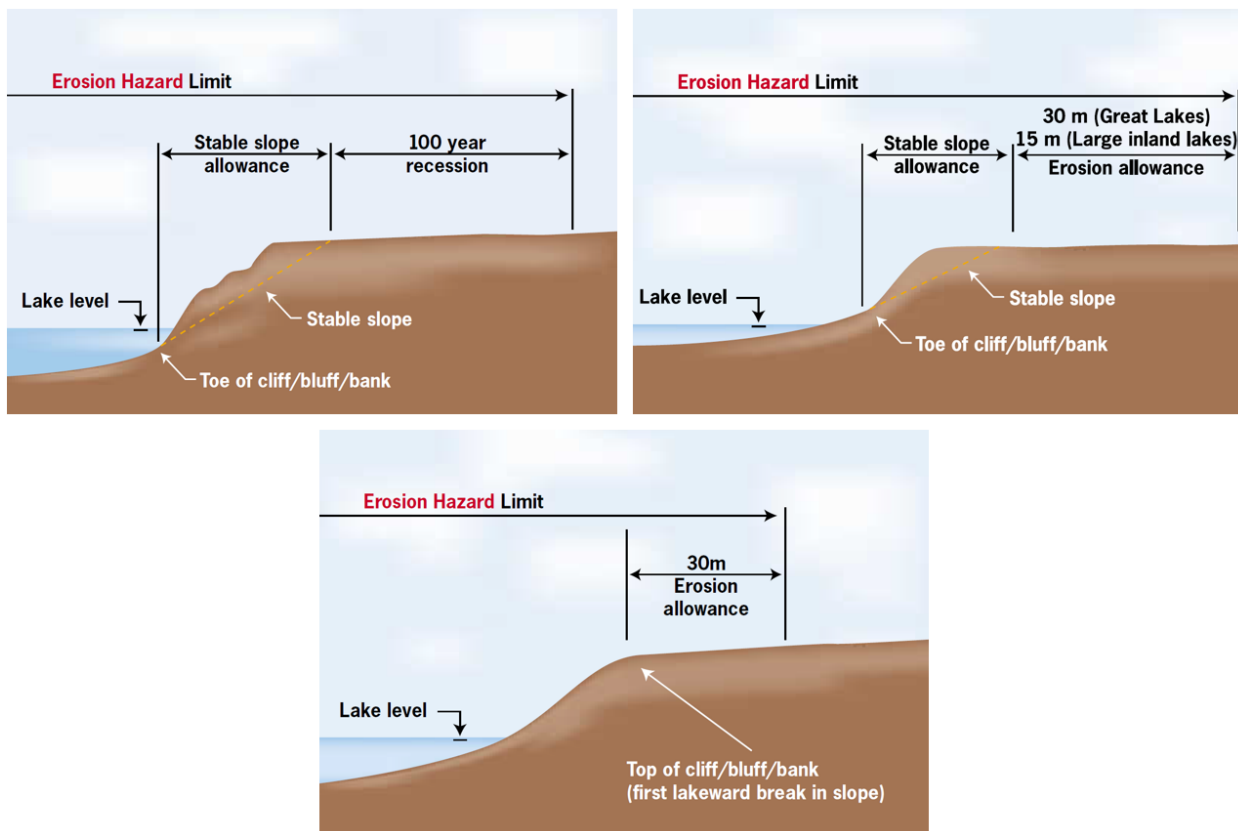


**Figure 3-5 Lake Huron Shoreline Flooding Hazard Limit**

#### Lake Huron Shoreline Erosion Hazard Limit

All shorelines are erosion-prone – even bedrock formations, if they are soft. The shoreline erosion hazard limit is determined using the 100-year erosion rate (the average annual rate of recession extended over a hundred-year time span), an allowance for slope stability, and an erosion allowance. When drawing the limits of erosion hazards, engineers consider three components:

- 1) **Stable slope allowance:** The suggested angle of a slope for stability is about three-to-one (horizontal: vertical), or approximately 18 degrees. The stable slope allowance is a horizontal allowance measured landward from the toe of the shoreline cliff, bluff or bank that is three times the height of the cliff, bluff or bank. The height is the difference in elevation between the toe of the shoreline cliff, bluff or bank, which may be above the surface of the water, or below it, and the top or first lakeward break in slope.
- 2) **Average annual recession:** The recession rate average for a site where there is at least 35 years of reliable recession information.
- 3) **Erosion allowance:** Where there is no reliable recession information, the province suggests a setback distance of 30 metres to allow for erosion along the Great Lakes-St. Lawrence River system.



**Figure 3-6 Lake Huron Erosion Hazard Limit**

### 3.7.2.1 New Development, Private and Public Infrastructure, and Infilling

SVCA will not recommend new development, new infrastructure, and/or infilling within the flooding and erosion hazard limits along the shoreline of Lake Huron that would be contrary to the Provincial Planning Statement or SVCA policies contained in this document.

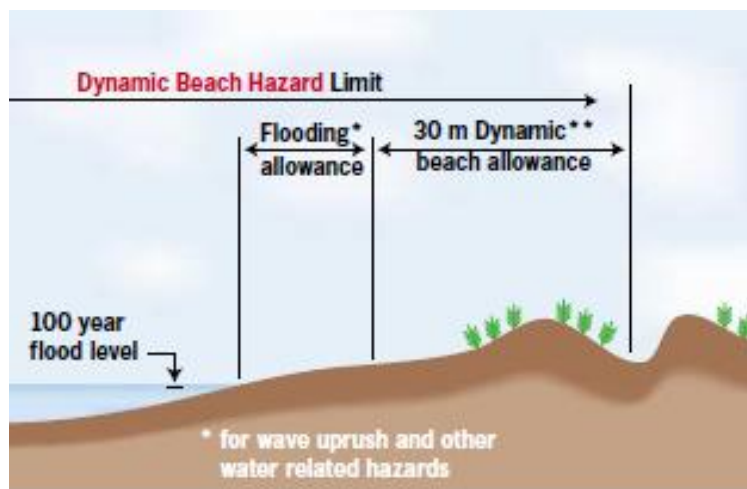
## 3.7.3 Lake Huron Shoreline Dynamic Beach Hazard

As the name suggests, dynamic beaches change over time. Since the elevation of any point on the beach can change, it is not possible to define the hazard limit of a dynamic beach in terms of a single elevation, as can be for a stable shoreline.

To define a dynamic beach, the first step is to know where the flooding hazard limit is. The flooding hazard limit combines the [100-year flood elevation](#) as defined by SVCA, plus wave uprush. In dynamic beach areas, elevations can change quite dramatically from season to season and year to year due to build up and erosion of sand, cobbles and other beach deposits. When elevations change, so does the location of the flooding hazard limit. This is an especially important consideration, because in times of low lake levels, the near shore areas that have been submerged under normal or high lake levels are now exposed, subjected to accretion and erosion processes. It may seem that the landward extent of the dynamic beach has changed, thereby introducing potential for development or expansion of existing development.

Where an engineered study has not been undertaken, the dynamic beach hazard limit is the combined flooding hazard limit (the [100-year flood level](#) plus an allowance for wave uprush and other water related hazards), plus the dynamic beach allowance of 30 metres on Lake Huron. If the dynamic

beach is subject to erosion or is receding, the flooding hazard limit is added to the horizontal distance representing 100 times the average annual recession rate, plus dynamic beach allowance of 30 metres on Lake Huron.



**Figure 3-7 Dynamic Beach Hazard Limit**

Sometimes the hazard limit of a dynamic beach can be revised at regional and site-specific scales. This requires a coastal study completed by a qualified coastal engineer or geoscientist in consultation with SVCA. Within the SVCA watershed, regional engineered dynamic beach hazard assessments were completed in 2008 and 2010 along portions of the Huron-Kinloss shoreline, and in 1996 for shoreline within the Geographic Town of Southampton.

#### **3.7.3.1 New Development, Private and Public Infrastructure, and Infilling**

SVCA will not recommend new development, new infrastructure, and/or infilling within the dynamic beach hazard limits along the shoreline of Lake Huron that would be contrary to the Provincial Planning Statement or SVCA policies contained in this document.

### **3.7.4 Hazardous Land Associated with Unstable Soil or Unstable Bedrock**

Hazardous land associated with unstable soil or unstable bedrock includes, but is not limited to, sensitive marine clays, organic soils and karst topography. Within the watershed organic soils and karst-like topography can be found. Organic soils are normally formed by the decomposition of vegetative and other organic materials. Soil is organic when the percentage weight loss of the soil, when heated, is five to eighty percent. Peat soils are the most common, but not the only type of organic soil in Ontario. Karst topography may be present in limestone or dolomite bedrock and are extremely variable in nature. While there is karst topography within the SVCA watershed, precise locations are unknown, and it is largely not located at the surface.

Due to the specific nature of organic soils and karst topography it is difficult to accurately identify the location and extent of the hazard without undertaking site specific technical reports. In this regard, the potential for catastrophic failures in some areas of unstable soil and unstable bedrock require site specific studies to determine their characteristics and therefore the appropriate limits of the hazard.

#### **3.7.4.1 Unstable Soil/Bedrock: Determination & Identification**

The limits of hazardous land associated with unstable soil or unstable bedrock will be determined through site specific field investigations and technical reports where required, to the satisfaction of

SVCA and the affected planning authority as appropriate.

#### **3.7.4.2 New Development and Infilling**

SVCA will recommend that new development and infilling occur outside of the boundaries of unstable soil or unstable bedrock.

#### **3.7.4.3 Public Infrastructure**

Where it can be demonstrated there is no feasible alternative for infrastructure to be located outside of the hazard lands, SVCA will only recommend public infrastructure (roads, sewers, flood and erosion control works) and various utilities (pipelines) within or adjacent to hazardous lands associated with unstable soil or bedrock, subject to the activity being permitted through an approved Environmental Assessment process and/or if it has been demonstrated to the satisfaction of SVCA that the infrastructure will be safe from the hazard, avoid negative impacts of the hazard, and that the proposed can be permitted in accordance with the policies contained in Section 4.

### **3.7.5 Wetlands**

Wetlands are important natural features on the landscape, whether they are permanently or seasonally wet. Wetlands perform many significant hydrological functions and act as a natural defense against many different natural hazards. Specifically, wetlands play a critical role in:

- Flood and drought mitigation: Wetlands moderate water flow by absorbing much of the surface water runoff from the land and then slowly releasing it. This helps to reduce flooding and to sustain stream flows during dry spells.
- Carbon sequestering / carbon sinks: Wetlands capture carbon dioxide from the atmosphere, making them nature's own solution to climate emergency. They store more carbon than any other ecosystem.
- Erosion control: Coastal / shoreline wetlands are well known storm buffers, providing a natural shield against storm surges that can drastically erode shorelines.
- Improve water quality: Many wetland areas recharge groundwater by moving surface water into the groundwater system, while filtering pollutants.
- Biologically diverse ecosystems: Wetlands are earth's most productive ecosystems that support many plant, bird, fish, mammal and amphibian species.

In addition to the above benefits, wetlands are also a hazard to development due to being flood susceptible and often containing unstable, organic soils.

Given the extraordinary benefits of wetlands and their hazard susceptibility to development, SVCA supports maintaining and enhancing existing wetlands within the watershed. This position conforms to SVCA's approach to watershed-based natural hazard management ([Section 2.2](#)) and our policies for preparing for a changing climate ([Section 2.3](#)). As such, SVCA will make the following policy recommendations regarding wetlands:

#### **3.7.5.1 Wetlands Designation / Zoning**

SVCA will recommend that wetlands be identified and protected from development and site alteration in Official Plans and Zoning By-laws.

#### **3.7.5.2 Public Infrastructure**

SVCA will not recommend the location of public infrastructure (roads, sewers, flood and erosion control works) and various utilities (pipelines) through wetlands unless it can be demonstrated that such works cannot be located outside of the wetland and only where the activity is being established under an approved Environmental Assessment and if it has been demonstrated to the satisfaction of SVCA that the infrastructure will be safe from wetland hazards and the proposed conforms to policies contained in [Section 3.6.1](#) and Section 4 of this document.

### **3.7.5.3 Conservation or Restoration Projects and Passive Recreational Use (low intensity outdoor recreation)**

SVCA will recommend conservation or restoration projects or passive recreational use associated with *Planning Act* applications within a wetland only where it has been demonstrated to the satisfaction of SVCA that the control of flooding, erosion, dynamic beaches, or unstable soils or bedrock will not be negatively affected, and the interference on the natural features and hydrologic functions of the wetland has been deemed to be acceptable by SVCA and conforms to [Section 3.6.1](#) and Section 4 of this document.

### **3.7.5.4 Stormwater Management Facilities**

SVCA will not recommend development, site alteration or the location of stormwater management facilities within a wetland.

### **3.7.5.5 Hydrologic Area of Interference Adjacent to Wetlands**

In accordance with provincial guidance used to implement Provincial Planning Statement (PPS) policies for development proposed within and adjacent to wetlands, the area of interference adjacent to a wetland has been established as 120 metres to Provincially Significant Wetlands and 30 metres adjacent to other wetlands. SVCA notes that this is different from the guidance for regulating wetlands in Section 4 of this document, which comes from the *Conservation Authorities Act*, and stipulates that the area of interference is 30 metres for all wetlands.

Most official plan policies require Environmental Impact Studies (EIS) for development within this area of interference. As part of the EIS or where no EIS has been required by the municipality, SVCA may require that a water balance study be undertaken to assess the hydrologic impact to a wetland. Where the hydrology/hydrogeology adjacent to a wetland is interfered with, existing hazards could be aggravated, or new hazards could be created. SVCA will not recommend development and/or site alteration within adjacent lands to any wetland unless the SVCA is satisfied that the development would not aggravate existing hazards or create new hazards associated with the wetland.

## **3.8 Aggregate Resource Policies**

SVCA will provide planning authorities within its watershed and the Ministry of Natural Resources (MNR) with natural hazard and natural resource information related to aggregate proposals. SVCA will also provide technical review assistance to watershed municipalities to assist in their decision-making responsibilities under the *Planning Act*.

## **3.9 SVCA Watercourse Specific Planning Policies**

### **3.9.1 Watercourses**

Watercourses are dynamic systems that include complex processes constantly undergoing change. A watercourse is defined to include rivers, streams, lakes, creeks and drains and are further defined in



the Glossary of Terms. The health of watercourses is integral to the health of a watershed as they provide key ecological functions and hydrologic functions such as fish habitat and habitat for wildlife, sediment and nutrient transport and deposition, transfer media for energy and organisms, source of water supply and important contributions to the hydrologic cycle.

The structure and functions of watercourses are influenced by channel morphology, sediment characteristics and the nature of the riparian vegetation. Each of these aspects is interrelated and as a result, impacts on one are likely to impact others. Changes to channel morphology reduce the ability of the watercourse to process sediment causing erosion and changing the amount or size of bed load being moved. Loss of riparian vegetation results in more pollutants and run-off being transferred from the land to the water, impacting water quality and flooding downstream reaches. In addition, loss of riparian vegetation or change to source of water supply can have impacts to the thermal regime of the watercourse. These changes degrade near shore and aquatic habitat and impair the watercourse for use by fish, wildlife, humans and other organisms.

Watercourse limits within the SVCA watershed will be determined through site specific field investigations and technical reports where required, to the satisfaction of SVCA and affected planning authorities, as appropriate.

### **3.9.1.1 Watercourse Alterations**

Where a *Planning Act* application proposes development and site alteration within and adjacent to watercourses, SVCA will recommend the following:

1. That all watercourses and adjacent banks ~~and valleys~~ remain in their natural state and that base flow and velocity be maintained. SVCA will not recommend applications for development and/or site alteration that are within the existing channel of a watercourse, except in accordance with the policies in [Section 4.11.1](#) and, in the case of Municipal Drains, [Section 4.12](#).
2. SVCA will not recommend proposals to realign or re-channelize significant portions of a natural watercourse to accommodate development unless such alterations have been proven to the satisfaction of the SVCA to control flooding and/or erosion ~~or provide environmental enhancement~~. An erosion and sediment control plan must also accompany such a proposal and be found satisfactory to the Authority. The alteration must not adversely impact municipally owned properties (including road allowances) and privately-owned properties. Proposals to realign or re-channelize significant portions of a natural watercourse to accommodate development would not generally be found acceptable by the Authority.
3. Except for bridges and other watercourse crossings installed in accordance with [Section 4.11.1](#) policies, the SVCA will not generally permit the spanning of buildings or structures across ~~valleylands or~~ watercourses.

### **3.9.1.2 Buffer Policies**

The SVCA shall encourage municipalities to place a 15-metre protective zoning along each side of a watercourse.

For minor alterations, additions that do not encroach on the watercourse, and replacements to existing development or where the development will not increase the existing footprint, it is recognized that the above-noted buffers may not be achievable. SVCA will encourage the achievement of maximum buffer wherever possible.

Greater buffer widths may be required for areas of sensitive soil conditions (i.e. high permeability, shallow depths, or extensive organics, peat, etc.), and to areas subject to the recommendations of sub watershed plans, where applicable.

#### **3.9.1.3 Watercourse Crossings**

The SVCA shall take the position that the buffer may be interrupted to allow watercourse crossings where required.

#### **3.9.1.4 Recreational Trails**

The SVCA shall take the position that recreational trails and paths may be allowed in buffer areas provided that:

1. There is a compensating buffer allowance added to the width of the buffer strip,
2. The trail/path does not come closer than four metres to the edge of the watercourse except for crossings, and
3. The trail/path design and construction are to the satisfaction of SVCA and will not aggravate flooding and erosion hazards and natural drainage patterns.



## 4. Regulation and Permitting Program

Section 4 provides detailed information about the regulatory responsibilities assigned to SVCA with respect to Ontario Regulation 41/24: Prohibited Activities, Exemptions and Permits (O. Reg. 41/24), and related sections of the *Conservation Authorities Act* (CA Act), including s. 28, s. 28.1, s. 28.1.1, s. 28.1.2, s. 28.2 to 28.5, s. 30.1 to 30.7, ss. 40(1)(g), and ss. 40(4). These legislated responsibilities will be referred to in this Section under their specific legislation or collectively as SVCA's "Regulation and Permitting Program".

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### Planning and Permit Applications

In some cases, there may be a need for coordination between planning applications (Section 3) and those under the SVCA's Regulation and Permitting Program (Section 4). This can also be complicated by the fact that the two applications may be received years apart. Except where legislation or policies have changed, or where planning policies supported by the Provincial Planning Statement, municipal official plans, or the SVCA are more restrictive, the SVCA will ensure that its position on a *Planning Act* application is the same as its position on a permit application for the same proposal on the same property. The principal of development is determined through the review process under the *Planning Act*.

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### 4.1 Purpose & Objectives of the Regulation and Permitting Program

The purpose of the Regulation and Permitting Program is not necessarily to restrict development, but rather to ensure that people are protected from risk and that properties are protected against natural hazards including flooding, erosion, unstable slopes and soils, and dynamic beaches.

The objectives of the Regulation and Permitting Program are to:

- Prevent loss of life because of natural hazards,
- Minimize property damage and social disruption resulting from flooding or erosion,
- Minimize public and private expenditure for emergency operations, evacuations, disaster relief and restoration,
- Prevent hazardous development within floodplains, flood and erosion areas and unstable soils and slopes which may in future require expensive protection measures,
- Ensure that development activity does not increase risks to upstream and downstream landowners,
- Prevent filling and/or draining of natural storage areas, and development that may limit floodplain storage capacity, increase flood elevations and/or decrease slope stability, and
- Prevent the interference with the hydrologic function of wetlands.

Regulating development and interference activities in areas subject to natural hazards is generally understood by the public, stakeholders, and planning authorities. However, regulating these activities in wetland areas is not as commonly understood. Conservation authorities are required to regulate development and interference activities within and around wetlands because they provide natural water storage and flood attenuation functions, and can support efforts to minimize and reduce shoreline erosion. Filling and dredging wetland areas can result in a reduced capacity to retain water

resulting in higher flows in connected watercourses with an increase in subsequent flooding and erosion. In addition, development in wetland areas could be at risk because of unstable conditions including the presence of organic soil and a high-water table.

## 4.2 Administration of the Regulation and Permitting Program

Conservation authorities (CAs) regulate development activities and other works through a permitting process for the purposes of natural hazard management and prevention. Permit decisions are based on the policies contained within this document, which have been made in accordance with text of the the CA Act and O. Reg. 41/24. SVCA also refers to other documents for CAs find policy direction, in several documents including but not limited to the Policies and Procedures for Conservation Authority Plan Review and Permitting Activities, MNR's Natural Hazard Technical Guides, and applicable CA Conservation Ontario -approved policy or practice if these policies, practices and/or protocols are within the intent of the CA Act and O. Reg. 41/24.

Where discrepancies exist between the text of the CA Act or O. Reg. 41/24 and the information provided within the Environmental Planning and Regulations Policies Manual, the text of the legislation prevails.

As is the case with all provincial legislation, unless specific reference is made to the Crown, the statute is non-binding on Federal Departments, Provincial Ministries, Crown Agencies or Corporations, unless a third party is undertaking the project. While most provincial government agencies voluntarily agree to comply with the requirements of all applicable law, it is important to note that the CA Act does not formally bind the Crown. The legislation also does not:

- Limit the use of water for domestic or livestock purposes,
- Interfere with the rights or powers conferred upon a municipality in respect of the use of water for municipal purposes,
- Interfere with any rights or powers of any board or commission that is performing its functions for or on behalf of the Government of Ontario,
- Interfere with any rights or powers under the *Electricity Act* or the *Public Utilities Act*, and/or
- Apply to activities approved under the *Aggregate Resources Act*.

O. Reg. 41/24 and the CA Act outline what and where the SVCA can regulate. The principal mandate of the Authority is to prevent the loss of life and property damage due to flooding and erosion, social disruption and to conserve ~~and enhance~~ natural resources. SVCA's Regulation and Permitting Program is a key tool in fulfilling this mandate because it directs development in areas where the control of flooding, erosion, dynamic beaches or unstable soils or bedrock may be negatively affected by development, or where public safety could be put at risk.

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SVCA recognizes that sustainable management of the watershed requires the engagement of landowners and organized partners and stakeholders. SVCA will work with clients and partners to continue to promote on-the-ground action and will continue to recognize that the wise use and management of the watershed depends on shared ownership and collective action.

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## 4.2.1 Important Definitions and Areas

Important definitions under the CA Act and O. Reg. 41/24 include:

### ***Development Activity***

- a. the construction, reconstruction, erection or placing of a building or structure of any kind,
- b. any change to a building or structure that would have the effect of altering the use or potential use of the building or structure, increasing the size of the building or structure or increasing the number of dwelling units in the building or structure,
- c. site grading, or
- d. the temporary or permanent placing, dumping or removal of any material, originating on the site or elsewhere.

[Section 3.3](#) notes how this definition differs from ‘development’ as defined in the *Planning Act*.

**Hazardous Land** means land that could be unsafe for development because of naturally occurring processes associated with flooding, erosion, dynamic beaches or unstable soil or bedrock.

**Watercourse** means a defined channel, having a bed and banks or sides, in which a flow of water regularly or continuously occurs<sup>1</sup>.

**Wetland** means land that:

- a. is seasonally or permanently covered by shallow water or has a water table close to or at its surface,
- b. directly contributes to the hydrological function of watershed through connection with a surface watercourse;
- c. has hydric soils, the formation of which has been caused by the presence of abundant water, and
- d. has vegetation dominated by hydrophytic plants or water tolerant plants, the dominance of which has been favoured by the presence of abundant water;

but does not include periodically soaked or wet land that is used for agricultural purposes and no longer exhibits a wetland characteristic referred to in clause (c) or (d).

### ***Interference or Interfere***

The CA Act and O. Reg. 41/24 do not define “interfere” or “interference”, nor has any definition been found in any other technical guide or planning document; hence, the interpretation below was developed by the Ministry of Natural Resources and Conservation Ontario in 2008. Under the CA Act and O. Reg. 41/24, “interference” only applies to projects within watercourses and wetlands.

“Interference” or “interfere” is interpreted as any anthropogenic act or instance which hinders, disrupts, degrades or impedes in any way the natural features or hydrologic functions of a wetland or watercourse. The common uses of words in this interpretation are:

- Hinder: to delay or impede
- Disrupt: to interrupt or disturb (an activity or process)

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<sup>1</sup> Open Municipal drains, by their very nature, usually meet this definition and usually qualify as a *watercourse*

- Degrade: to lower the character or quality of
- Impede: to delay or block the progress or action of

## Regulated Activities and Areas

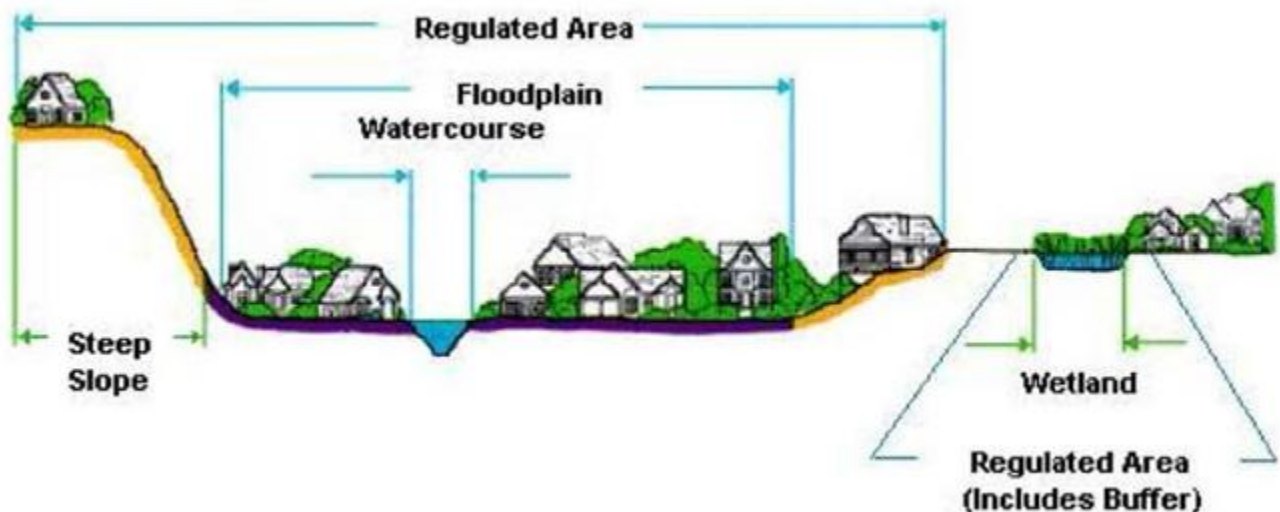
The CA Act and O. Reg. 41/24 enable SVCA to regulate:

- 1) Activities to straighten, change, divert or *interfere* in any way with the existing channel of a river, creek, stream or *watercourse*, shoreline, or to change or *interfere* in any way with a *wetland*; and
- 2) Development activities within:
  - a) *hazardous lands*;
  - b) *wetlands*, as defined above, and includes swamps, marshes, bogs and fens;
  - c) river or stream valleys that have depressional features associated with a river or stream, whether or not they contain a *watercourse*; and
  - d) the Lake Huron shoreline.

## Development and Interference Activities

To improve the readability of this manual, the term '*development and interference activities*' will be used when referring to 'development activities' and 'activities to straighten, change, divert or interfere in any way with the existing channel of a river, creek, stream or watercourse, shoreline, or to change or interfere in any way with a wetland'.

The CA Act and O. Reg. 41/24 requires CAs to regulate setbacks or buffers associated with the features listed above, including 15 metres from flooding, erosion and dynamic beach hazards, and 30 metres from wetlands. A not-to-scale cross section through a typical regulated area is shown in Figure 4-1 for reference.



**Figure 4-1 Cross Section through a typical regulated area**

Please note that for wetlands, the regulated area includes "Other Areas" where development and interference activities could interfere with the hydrologic function of a wetland and may include an

area of interference.

### **4.2.2 Approximate Regulation Mapping**

Ontario Regulation 41/24 requires all CAs to create maps depicting the areas within their jurisdiction where development and interference activities are regulated. SVCA's Regulation screening mapping is available digitally on the SVCA website and has been provided to counties within the SVCA jurisdiction for inclusion in their online mapping programs.

As the CA Act and O. Reg. 41/24 are 'text based', regardless of mapping, all proponents as well as the SVCA are required to consider the applicability of the text of the legislation given the features present or near the proposed works site. Ontario Regulation 41/24 applies even when these features are not included within the mapping.

In case of a conflict regarding the boundaries of the areas where development activities are prohibited, the description of those areas in the text of the CA Act and O. Reg. 41/24 prevail over the depiction of the areas in the maps.

## **4.3 Permit Applications**

Ontario Regulation 41/24 provides requirements for permit applications and related pre-submission consultation, review timelines, and validity periods. An application to undertake a development or interference activity within a regulated area must include sufficient information for SVCA staff to understand the proposal and determine whether it addresses the policies in this manual. Pre-submission consultation is a key step in this process, as it allows the applicant and staff to discuss a proposal, review the site of the proposed works, discuss alternatives if necessary, and confirm the application requirements before an application is submitted.

### **4.3.1 Pre-submission Consultation**

Pre-submission consultation is the process where a landowner or their agent share information about their proposed development or interference activity with SVCA staff before they apply for a permit. While the SVCA Permit Application form contains a checklist of the general requirements for a permit application (see [Appendix B](#)), the pre-submission consultation refines these requirements based on the specific proposal. Section 6 of O. Reg. 41/24 addresses pre-submission consultation:

**6. (1)** Prior to submitting an application for a permit under section 28.1 of the CA Act, the authority and the applicant may engage in pre-submission consultation for the purposes of confirming the requirements of a complete application to obtain a permit for the activity in question, which may include,

(a) requests by the authority to the applicant for,

(i) initial information on the proposed activity such as a description of the project and any associated plans; or

(ii) details about the property upon which the activities are proposed to be carried out, including copies of plans, maps or surveys; or

(b) meetings between the authority and the applicant prior to the submission of an application, including any site visits to the property where the activities are proposed to be carried out.

**(2)** If the applicant requests a pre-submission consultation under subsection (1), the authority is required to engage in the pre-submission consultation.

SVCA staff initiate the pre-submission consultation process after collecting basic information from an applicant about their proposal.

### **4.3.2 Processing of Applications**

All applications, as a first step, are reviewed to determine if they conform to the policies set out in Section 4 of this document. SVCA staff may request revisions to plans or reports submitted as part of an application. This is a normal part of the review process and applicants are encouraged to consult with SVCA staff as reports and plans are prepared to make the most efficient use of time involved in the design and review process. If, in the opinion of SVCA staff, a complete application does not conform, the applicant will be advised of options that may be pursued to either bring the application into conformity or of steps that can be taken to seek a formal hearing before the SVCA Board of Directors.

SVCA staff may also contact other review agencies to discuss the proposed project, however, it is the proponent's responsibility to obtain all other necessary approvals from federal, provincial, and municipal authorities.

### **4.3.3 Permit Application Requirements**

The submission of a complete application is a critical component for the SVCA to review an application and provide timely feedback and approvals (where appropriate). Ontario Regulation 41/24 outlines the minimum requirements for an application, which are listed below. SVCA staff confirms all requirements with applicants through the Pre-Submission Consultation process.

The CA is responsible for determining when an application is deemed complete, and this determination initiates the timelines and appeal processes as outlined in the CA Act. Therefore, clear and detailed policies or guidelines are critical technical and communication tools for CAs and applicants.

The minimum requirements for a complete application as outlined in O. Reg 41/24 s. 7, includes content of the application and specific timelines for notifications to the applicant:

- 7. (1)** An application for a permit under section 28.1 of the CA Act shall be submitted to the authority and shall include,
  - (a) a plan of the area showing the type and location of the proposed development activity or a plan of the area showing plan view and cross-section details of an activity to straighten, change, divert or interfere with the existing channel of a river, creek, stream watercourse, or change or interfere with a wetland,
  - (b) the proposed use of any buildings and structures following completion of the development activity or a statement of the purpose of an activity to straighten, change, divert or interfere with the existing channel of a river, creek, stream or watercourse or to change or interfere with a wetland,
  - (c) the start and completion dates of the development activity or other activity,
  - (d) a description of the methods to be used in carrying out an activity to straighten, change, divert or interfere with the existing channel of a river, creek, stream or watercourse, or change or interfere with a wetland,
  - (e) the elevations of existing buildings, if any, and grades and the proposed elevations of any



- buildings and grades after the development activity or other activity,
- (f) drainage details before and after the development activity or other activity,
- (g) a complete description of any type of fill proposed to be placed or dumped,
- (h) a confirmation of authorization for the proposed development activity or other activity given by the owner of the subject property, if the applicant is not the owner, and
- (i) any other technical information, studies or plans that the authority requests including information requested during pre-submission consultations between the authority and the applicant.

(2) Upon receipt of the information required under subsection (1) and payment by the applicant of the fee charged by the authority under subsection 21.2 (4) of the CA Act, the authority shall notify the applicant in writing, within 21 days, whether or not the application complies with subsection 28.1 (3) of the CA Act and is deemed to be a complete application.

(3) If the authority notifies an applicant under subsection (2) that the application is complete, the authority shall not require new studies, technical information or plans under clause (1) (i) from the applicant to make a determination on the application, unless agreed to by the authority and the applicant. For greater certainty, the authority may ask the applicant for clarification or further details regarding any matter related to the application.

The determination and communication of a complete application starts the timeline for SVCA's decision on the application and any appeals that may be considered by the applicant. It is common that the process for reviewing an application and applicable studies and plans is an iterative process between the applicant and the SVCA. This process includes the need to clarify technical information, address any information that may be missing in the submission, correction of errors etc. SVCA may consider conducting a site visit as part of the pre-submission requirements to ensure that all natural hazards are identified on the site.

#### **4.3.4 Application Fees**

Fees for the processing of applications are set by the SVCA Board of Directors and must be paid at the time of submission. Fees are non-refundable and are to be paid prior to issuance of the permit. The fee schedule is updated annually and available on the [SVCA website](https://www.saugeenconservation.ca/en/about-us/fees.aspx#Planning-and-Regulations-Fee-Schedule) (<https://www.saugeenconservation.ca/en/about-us/fees.aspx#Planning-and-Regulations-Fee-Schedule>). Effective April 1, 2024, the CA Act was updated to allow for the reconsideration of fees for permit applications in accordance with the following:

21.2 (13) If an authority receives a request for reconsideration of a fee charged for an application for a permit made under subsection 28.1 (2), the authority shall make its decision within 30 days after receiving the request.

(14) If an authority fails to reconsider a fee described in subsection (13) within 30 days of receiving the request for reconsideration, the person who made the request may appeal the amount of the fee directly to the Ontario Land Tribunal.

(15) If, after reconsideration of a fee charged for an application for a permit made under subsection 28.1 (2), an authority orders a person to pay the fee under clause (12) (a) or (b), the person shall pay the fee in accordance with the order.

(16) A person who pays a fee under subsection (15) may,

(a) when paying the fee, indicate to the authority in writing that the fee is being paid under protest; and

(b) within 30 days after payment of the fee, appeal the amount charged by the authority upon reconsideration to the Ontario Land Tribunal.

(17) For greater certainty, an appeal of the amount of a fee under subsection (14) or clause (16) (b) applies even if the amount charged was set out in the fee schedule prepared by the authority under subsection (6).

(18) The Ontario Land Tribunal shall hear an appeal made under subsection (14) or clause (16) (b).

(19) After hearing the appeal, Ontario Land Tribunal may,

(a) dismiss the appeal;

(b) vary the amount of the fee charged by the authority; or

(c) order that no fee be charged.

(20) If the Ontario Land Tribunal makes an order under clause (19) (b) or (c), it may order that the authority provide a refund to the appellant in such amount as the Tribunal determines.

(21) Despite subsection (19), the Ontario Land Tribunal shall dismiss the appeal if it determines that the fee complies with a regulation made under clause 40 (3) (b).

#### **4.3.5 Approval of the Permit**

Saugeen Valley Conservation Authority has established types/classes of applications where approval has been delegated to staff.

Applications that conform to the policies set out in Section 4 will be recommended for approval, along with any conditions, and submitted to the General Manager/Secretary Treasurer of the SVCA or designate for authorization and permit issuance under O. Reg. 41/24 and the CA Act.

The General Manager/Secretary Treasurer or designate may refer applications to the SVCA Board of Directors for review and ruling if deemed warranted by SVCA staff or the applicant.

In all cases, any approval is only valid upon issuance of a permit on the prescribed form, signed by the General Manager/Secretary Treasurer or designate.

Any proposed amendments to the approval will require review and approval and may be subject to additional fees. Substantial amendments may require submission of a new permit application and obtaining a new permit.

#### **4.3.6 Conditions of the Permit**

SVCA may apply conditions of approval to a permit. These conditions must be completed to the satisfaction of SVCA. Generally, the decision to issue permits under section 28.1 of the CA Act is based on several considerations, including: the CA Act and the accompanying regulations, the proposed works (activities and timing), current site conditions and alignment with current applicable Board-approved policies or guidelines.

Ontario Regulation 41/24 includes the following requirements for conditions that are requirements of a permit from SVCA:

9. (1) An authority may attach conditions on a permit issued under section 28.1 only if, in the



opinion of the authority, the conditions,

- (a) assist in preventing or mitigating any effects on the control of flooding, erosion, dynamic beaches or unstable soil or bedrock;
- (b) assist in preventing or mitigating any effects on human health or safety or any damage or destruction of property in the event of a natural hazard; or
- (c) support the administration or implementation of the permit, including conditions related to reporting and notification, monitoring and compliance with the permit.

#### **4.3.7 Application Review Timelines and Appeals**

Once a permit application is received that includes the information required, SVCA will notify the applicant within 21 days whether the application is deemed to be a complete application. If SVCA does not meet this timeline, or if the applicant does not agree with the complete application requirements, the applicant may request an Administrative Review by the SVCA General Manager, as outlined in the Administrative Review Policies in [Appendix C](#).

When an application is deemed to be complete, SVCA shall, within 30 days for Minor applications and 90 days for Major applications, issue a permit or provide the reasons why a permit cannot be issued. Major applications are larger in scale and/or more complex than Minor applications and can involve the review of technical studies. If SVCA fails to give the applicant notice of a decision with respect to the application within 90 days, the applicant may appeal the application directly to the Ontario Land Tribunal as per S. 28.1 (22) of the CA Act.

If, in the opinion of SVCA staff, an application does not conform to policy or it does not satisfy technical requirements, or if the applicant does not agree with any recommended condition of permit approval, the application may be recommended for refusal. In such a case, the applicant may request a hearing before the SVCA Board of Directors. Hearing Guidelines are provided in [Appendix D](#).

In accordance with section 28.1 of the CA Act, an applicant who has been refused a permit may submit a request for a Minister's Review of this decision to the Minister of Environment, Conservation and Parks, or may appeal this decision to the Ontario Land Tribunal.

##### **4.3.7.1 Emergency Works**

The *Emergency Management and Civil Protection Act* defines an emergency as “a situation or an impending situation that constitutes a danger of major proportions that could result in serious harm to persons or substantial damage to property and that is caused by the forces of nature...an accident or an act whether intentional or otherwise”. From a section 28.1 perspective, this typically refers to unexpected and/or imminent (immediate) situation(s) that might jeopardize the health or safety of persons or result in injury or loss of life, or damage or destruction of property.

It is acknowledged that all Conservation Authorities will work with applicants to expedite emergency approvals. Depending upon the severity of the situation, this interim approval could be done by electronic communications e.g., email.

#### **4.3.8 Permit Expiration and Extensions**

Permits are typically valid for one or two years, depending on the nature of the proposal and needs of the applicant. In special circumstances permits with validity periods that exceed two years can be issued by SVCA, up to a maximum period of 5 years, depending on the complexity of the project e.g.,

large-scale public infrastructure, and consideration for limited construction windows due to other agency seasonal criteria, multiple agencies permit, etc.

A permit extension may be requested, provided that the scope of work remains unchanged from the original application and any ongoing activities are in compliance with the original approval or will be brought into compliance within the requested extension period. The request must be made in writing prior to the expiration date of the original permit and is subject to a fee.

Section 11 of O. Reg. 41/24 addresses the period of validity of permits and extensions:

11. (1) The maximum period of validity of a permit issued under sections 28.1, 28.1.1 and 28.1.2 of the CA Act, including any extension, is 60 months.
- (2) If a permit is issued for less than the maximum period of validity, the holder of a permit may, at least 60 days before the expiry of the permit, submit an application for an extension of the permit to,
  - (a) the authority that issued the permit, in the case of permits issued under section 28.1 or 28.1.2 of the CA Act; or
  - (b) the Minister, in the case of permits issued under section 28.1.1 of the CA Act.
- (3) An authority or the Minister, as the case may be, may approve an extension of the period of validity of a permit that was issued for a period of less than 60 months but the total period of validity of the permit, including the extension, shall not exceed 60 months.
- (4) If an authority intends to refuse a request for an extension, the authority shall give notice of intent to refuse to the holder of the permit, indicating that the extension will be refused unless the holder requests a hearing under subsection (5).
- (5) Within 15 days of receiving a notice of intent to refuse a request for an extension, the holder of the permit may submit a written request for a hearing to the authority.
- (6) If a request for hearing is submitted under subsection (5), the authority shall hold the hearing within a reasonable time and shall give the holder at least five days notice of the date of the hearing.
- (7) After holding a hearing under subsection (6), the authority may,
  - (a) confirm the refusal of the extension; or
  - (b) grant an extension for such period of time as it deems appropriate, as long as the total period of validity of the permit does not exceed the applicable maximum period specified in subsection (1).

#### **4.3.9 Compliance with Permits and Violations**

A violation of the CA Act or O. Reg. 41/24 has occurred when development and/or interference activities are undertaken within a Regulated Area in one of two ways:

- contrary to the terms and/or conditions stipulated in a CA Act permit, or
- without a CA Act permit.

An SVCA permit may be cancelled by the SVCA Board of Directors if the permit or permit conditions are not adhered to. This process is outlined in section 28.3 of the CA Act and includes provisions for notifying the permit holder in advance, an opportunity for a Hearing (see [Appendix D](#)), and appealing

a Hearing decision.

Any initiators of unauthorized works that contravene the CA Act or O. Reg. 41/24 will be requested to halt the works immediately upon the SVCA confirming the works are of interest to the SVCA and becoming aware of the works. The landowner and/or individuals involved with unauthorized works may be unaware that a permit is required from the SVCA. However, this does not absolve the landowner and/or individuals involved from obtaining a permit. Works that proceed without the proponent or their agent obtaining a permit required under the CA Act or O. Reg. 41/24 may result in charges being laid, however SVCA will attempt to work with the landowner to resolve the issue through voluntary compliance and/or restoration before pursuing this option.

Normally a “Notice of Violation” will be sent by registered mail to the landowner, their agent and/or the contractor. This notice will advise that the subject area is regulated, describe the development or interference activity, advise that activities observed require a permit and will request that work cease, and the respective parties contact SVCA to discuss options for resolution of the matter.

Should the violator not contact the Authority within the specified time period, legal action may be pursued under the CA Act.

Once contacted, SVCA will subsequently review the violation in more detail and notify the offender(s) by registered mail with an option(s)/recommendation(s) for resolution of the matter. It may be necessary to obtain additional information/details of the violation before options for resolution of the matter can be provided. In this case, specific information will be requested from the offender, by registered mail.

If the violation is contrary to the policies in Section 4 of this manual, the offender(s) will be requested to remove the works and restore the site to its original condition (i.e. prior to the works being undertaken). If the offender(s) choose not to remove the violation, SVCA may elect to pursue legal action under the CA Act.

The offender may not apply for a permit for approval of the works but is recommended to work with the SVCA to resolve the issue. SVCA will work with the owner to ensure that the works meet all the criteria for approval. If the works are in conformity or brought into conformity with the policies outlined in Section 4 of this document, the SVCA will indicate that the item is resolved **and issue a compliance approval**. Review fees apply, though they are doubled.

SVCA will work to resolve violations within two (2) years unless the works are too severe and/or the landowner is not cooperative. If the matter is not resolved the SVCA may pursue legal action. This will allow for ample time for court preparation, if required. This deadline will be made clear to the violator(s) at the onset of negotiations.

The provisions of the CA Act and the *Provincial Offences Act* direct SVCA staff when investigating a violation. It is normal that in addition to any penalty levied by the court upon conviction, SVCA will seek an order for rehabilitation of the site and/or removal of any buildings and/or structures ruled in contravention of the CA Act and O. Reg. 41/24.

If convicted, an individual who commits an offence may be subject to a fine of not more than \$50,000 or to a term of imprisonment of not more than three months, or to both, and to an additional fine of not more than \$10,000 for each day or part of a day on which the offence occurs or continues. A Corporation that commits an offence may be subject to a fine of not more than \$1,000,000 and to an additional fine of not more than \$200,000 for each day or part of a day on which the offence occurs or continues (CA Act s. 28, ss. 30.5(2)). In addition, if convicted, the development or interference activity

may be required to be removed at the expense of the landowner. The landowner may also be required to rehabilitate the impacted area in a manner prescribed by the courts (CA Act s. 28, ss. 30.7).

Violations are not eligible for the administrative options afforded to proposals, such as Administrative Reviews, Hearings, and Permits. Instead, violations that are in conformity with the policies outlined in this document are eligible for compliance approvals. In instances where projects include multiple components, only those components that commenced without a permit will be subject to the compliance approval process. Works that have not yet begun will follow the permit application process.

#### **4.3.10 Other Terms and Conditions**

A permit granted by SVCA cannot be transferred.

Approvals, permits, etc., may be required from other agencies prior to undertaking the work proposed. SVCA's permit does not exempt the applicant from complying with any or all other approvals, laws, statutes, ordinance, directives, regulations, by-laws, etc., that may affect the property or the use of same.

~~SVCA may, at any time, withdraw any permit given if, in its opinion, the representations contained in the application for a permit are not carried out or the conditions of the permit are not complied with.~~

### **4.4 General Policies**

#### **4.4.1 Implementation/Interpretation**

SVCA will be guided by the following general administrative guidance with respect to the implementation of its regulatory responsibilities:

##### **4.4.1.1 General Administrative Activities Policies**

- a. All development and interference activities taking place in a Regulated Area require an SVCA permit unless exempted under [Section 4.5](#) of this manual,
- b. Where regulated lands contain more than one regulated feature (e.g. lands susceptible to flooding that are also part of a wetland), policies will be applied jointly, and where applicable, the more restrictive policies will apply,
- c. Information regarding technical criteria, evaluation, and guidelines are contained within this manual and its Appendices, and
- d. When policies support development or interference activities within a hazard, it must first be demonstrated to the Authority's satisfaction that the activities cannot be relocated to an area outside the hazard, that there is no feasible alternative site, and that it is in an area of least (and acceptable) risk.

Each application will be evaluated on its own merits, on a case-by-case basis, consistent with the policies in this manual.

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#### **Is Your Project in a Regulated Area?**

People who are contemplating 'development or interference activities' are encouraged to contact SVCA to determine if their property falls within a Regulated Area prior to the

commencement of any on-site work. If applicable, SVCA staff will advise of the permit application process and are available to provide additional information and assistance.

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In addition to obtaining a permit from SVCA, other permits may be required from other federal, provincial or municipal bodies in conjunction with a development proposal.

#### **4.4.2 Prohibiting or Regulating Development and Interference Activities**

The specific policies listed in Sections 4.6 to 4.12 of this manual outline when a permit will be granted for development and interference activities within areas defined by the CA Act and O. Reg. 41/24 (the 'Regulated Area'), and under what conditions. Where an activity is not addressed in the specific policies, the following general policies will apply:

##### **4.4.2.1 Development and Interference Activities – Not Permitted**

Development and interference activities will generally not be permitted by SVCA within a Regulated Area, except in accordance with the policies in Section 4 of this manual.

##### **4.4.2.2 Development and Interference Activities – Permitted**

For SVCA to permit development and interference activities within a Regulated Area, it must be demonstrated to the SVCA's satisfaction that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, when undertaken or afterwards,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. grading (e.g. placing and removing fill) is minimized and maintains stage-storage discharge relationships and floodplain flow regimes for a range of rainfall events, including the Regulatory Storm (Hurricane Hazel Flood Event Standard),
- d. there are no negative or adverse hydrologic impacts on wetlands,
- e. sedimentation and erosion during construction and post construction is minimized using best management practices including site, landscape, infrastructure and/or facility design (whichever is applicable based on the scale and scope of the project), construction controls, and appropriate remedial measures,
- f. intrusions on hydrologic functions are avoided, and no adverse impacts to hydrologic functions will occur,
- g. groundwater discharge areas which support hydrologic functions on-site and adjacent to the site are avoided,
- h. groundwater recharge areas which support significant natural features or hydrologic functions on-site and adjacent to the site will be maintained or enhanced,
- i. access for emergency works and maintenance of flood or erosion control works is available,
- j. works are constructed, repaired and/or maintained according to accepted engineering principles and approved engineering standards or to the satisfaction of the SVCA, whichever is applicable based on the scale and scope of the project,
- k. if required, technical studies and/or assessments, site plans and/or other plans submitted as part of a permit application must be completed by a qualified professional to the satisfaction

of the SVCA and, where available, in keeping with the most current technical guidelines approved by the SVCA, and

- l. any other requirements that may be prescribed by the regulations are met.

#### **4.4.2.3 Prohibited Uses within Hazardous Lands and Sites**

Notwithstanding the conditions provided in Section 4.4.2.2, development activities associated with the following uses shall not be permitted in hazardous lands and sites in SVCA's regulated area:

- a. an institutional use including hospitals, long-term care homes, retirement homes, preschools, school nurseries, day cares and schools,
- b. an essential emergency service such as that provided by fire, police, and ambulance stations and electrical substations, or
- c. uses associated with the disposal, manufacture, treatment or storage of hazardous substances.

### **4.5 Exemptions – No Permit Required**

Section 5 of O. Reg. 41/24 lists certain development and interference activities that are exempt from requiring a Conservation Authority permit. These legislated exemptions and other SVCA-specific exemptions are listed below.

#### **4.5.1 Exemption Policies**

The following development and interference activities do not require a permit from SVCA, subject to the listed conditions.

##### **4.5.1.1 Agricultural Activities - Exempt**

**Non-structural agricultural activities are exempt, such as:**

- a. cropping and pasturing within existing agricultural fields, and
- b. woodlot management (selective timber harvesting with no permanent watercourse crossings, permanent landing areas, etc.).

**The installation of new agricultural drainage tile is exempt where:**

- a. it is not within a wetland or watercourse, within 30 metres of a wetland or within 15 metres of a watercourse, and
- b. it has an outlet of water that is not directed or connected to a watercourse, wetland or river or stream valley (see [Section 4.9.4](#) and [Section 4.11.1](#) for applicable policies when not exempt).

**The maintenance or repair of existing tile drains is exempt.**

**The installation, maintenance or repair of a pond for watering livestock is exempt where:**

- a. it is not connected to or within a watercourse or wetland,
- b. it is not within 15 metres of a watercourse or wetland, and
- c. no excavated material is deposited within an area where subsection 28 (1) of the CA Act applies.

**Agricultural in-field erosion control structures are exempt that:**

- a. are not within and that do not have any outlet of water directed or connected to a watercourse, wetland or river or stream valley.

##### **4.5.1.2 Accessory Buildings or Structures - Exempt**



**Non-habitable accessory buildings or structures are exempt that:**

- a. are incidental or subordinate to the principal building or structure,
- b. have a footprint that is equal to or less than 15 square metres (161.5 square feet),
- c. are not within a wetland or watercourse, ~~and-~~
- d. in the case of decks, are detached, unenclosed, and do not utilize any method of cantilevering.

Notes: accessory buildings or structures should be secured to the ground when located within a flood hazard and be located at least one metre from other exempt buildings or structures, not including a platform base or pad that otherwise meets these criteria. Associated filling or grading may not be exempt (see [Section 4.5.1.3](#)).

Examples: storage sheds, decks (see additional deck exemption below), pergolas, gazebos, picnic shelters, concrete pads etc.

**Reconstruction of a non-habitable garage with no basement is exempt, if the reconstruction:**

- a. does not exceed the existing footprint of the garage, and
- b. does not allow for a change in the potential use of the garage to create a habitable space.

**Decks are exempt, regardless of size, that:**

- a. are not located within a hazard,
- b. will never be enclosed, covered, or converted in use, and
- c. ~~are not dependent on another building or structure for support, and~~
- d. will not create a hazard or increase a hazard that presently exists.

**Seasonal or temporary docks and related facilities (e.g. swimming platforms) are exempt, that:**

- a. will not cause flooding or erosion,
- b. will not obstruct flow, and
- c. will be removed in the fall and stored beyond the floodplain area or, if stored within the floodplain area, are well secured to prevent dislodging during flood events. Re-installation must not occur prior to flooding events that may be expected in the springtime of the year.

Note: Permanent docking and related facilities to be placed wholly or partially within the water are discouraged. Any such facilities proposed will require full SVCA staff review, formal application and a permit to be obtained, including permission from the owner of the bed of the lake or watercourse.

Note: Seasonal docks and related facilities may be attached to existing permanent facilities that are located completely on the shoreline area beyond the water's edge.

**Fencing is exempt, that:**

- a. does not impede the conveyance of flow<sup>2</sup>, and
- b. limits the potential for collection of debris during high flow/flooding events.

Examples: page wire fencing, split rail fencing, chain link fencing, board fencing, or temporary snow or sand fencing. Stone or concrete walls are not included in this general exemption.

**Footbridges (seasonal or temporary) are exempt, that:**

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<sup>2</sup> In the case of board fencing located in a floodplain or dynamic beach, design considerations must ensure there is minimal impact on water or sand flow and/or deposition with appropriate board spacing in accordance with the *Conservation Authorities Act* and O. Reg. 41/24.

- a. are for pedestrian use,
- b. have a maximum width of 1.2 metres (4 feet),
- c. are secured at one or both ends in a manner that will not become dislodged with flooding, and
- d. will clear span the watercourse channel and not obstruct flow within the channel.

Note: footbridges should be stored away from the watercourse and secured to prevent dislodging when flooding is likely to occur (spring thaw or when severe storms are forecast).

#### **4.5.1.3 Filling and/or Grading Activities – Exempt**

**General filling and/or grading is exempt where:**

- a. the quantity moved and/or imported is less than 23 cubic metres,
- b. it is not located in a wetland, dynamic beach, unstable slope, or between the banks of a watercourse,
- c. it will not direct riverine flood waters onto neighbouring property,
- d. it is completed within one calendar year and is not an ongoing fill project,
- e. all imported fill is comprised of inert, granular material,
- f. it will not cause erosion, sedimentation, or slope instability, and
- g. it will not be used as shoreline erosion protection.

**Road and/or driveway maintenance activities are exempt, where:**

- a. the road or driveway is not extended or widened,
- b. the elevation of the road or driveway is not altered beyond its original design, and
- c. bedding materials and/or existing culverts are not altered.

**Landscaping paths are exempt that:**

- a. are flush with existing grade,
- b. are made of natural materials (concrete or asphalt may be acceptable depending on location),
- c. do not require significant excavation, clearing, etc.,
- d. will not exceed a width of 1.2 metres,
- e. do not include other structures related to the landscaping, and
- f. will be the only path per property.

Note: Shared paths along or at side yards of adjoining properties are encouraged.

Note: If all or part of the path is within a wetland, please contact SVCA staff to determine whether this exemption is applicable.

**Municipal mechanical beach grooming is exempt where:**

- a. the work is completed in accordance with a beach maintenance plan prepared by or for the municipality that has been reviewed and found acceptable by SVCA.

#### **4.5.1.4 Minor alterations and repairs – Exempt**

**Maintenance and upkeep of existing buildings and structures is exempt.**

**Repairs and renovations to an existing building are exempt, that:**

- a. are within the existing roofline and exterior walls,
- b. are above the existing foundation, and



- c. are not associated with a change in use, or potential use, or increase the number of dwelling units.

**Interior and exterior repairs or maintenance of a building are exempt, such as:**

- a. Siding, painting, window and door replacements, roof shingling etc.

**Replacing or installing a furnace or electrical panel is exempt, unless:**

- a. Some other aspect of the overall project is considered construction or reconstruction.

**Minor alterations and maintenance or operation of existing dams is exempt, that:**

- a. would not affect the control of flooding, or erosion,
- b. would not result in changes in the capacity of river flows or impacts on integrity of the structure or in-water works, and
- c. do not include changes to the original dimensions of the existing dam.

**Maintenance to stormwater management facilities is exempt, that:**

- a. would not affect the control of flooding, erosion, dynamic beaches, unstable soils or bedrock, and
- b. does not involve a change to the original dimensions of the existing infrastructure.

**Minor watercourse works, not including crossings, dams or ponds, are exempt, where:**

- a. the watercourse is less than or equal to one metre in width at the project site (top of bank measured),
- b. will not disturb more than 8 metres of channel length,
- c. will not cause flooding or erosion, and
- d. will not obstruct flow.

**Maintenance or repair of municipal drains as described in the *Drainage Act* and the *Conservation Authorities Act* Protocol is exempt, except:**

- a. Where work is within a regulated area associated with a wetland.

**Replacement of private sewage disposal systems are exempt, where:**

- a. the disposal bed is no closer to a natural hazard than that which is being replaced,
- b. the bed is the same size or smaller than the existing, and
- c. there will be no negative impacts on the local drainage.

#### **4.5.1.5 Non-structural uses and activities – Exempt**

**Replacement of existing service connections (e.g. comms., water, sewer) is exempt, where:**

- a. it is not located within a wetland, watercourse, and
- b. ground disturbance is minimized and immediately returned to former conditions.

**Other non-structural uses are exempt, such as:**

- a. gardens, nurseries, open arboretums and forestry/wildlife management.

#### **4.5.1.6 ~~Previously approved uses – Exempt~~**

~~On-going operations associated with existing commercial/industrial uses that have been previously approved by SVCA are exempt.~~

## 4.6 Lake Huron Shoreline Specific Policies

The area regulated by SVCA along the Lake Huron Shoreline is described in section 2 of O. Reg. 41/24:

2 (2) For the purposes of subparagraph 2 iv of subsection 28 (1) of the CA Act, areas adjacent or close to the shoreline of the Great Lakes-St. Lawrence River System or to inland lakes that may be affected by flooding, erosion or dynamic beach hazards include,

(a) the area starting from the furthest offshore extent of the authority's boundary to the furthest of the following distances:

(i) the 100-year flood level, plus the appropriate allowance for wave uprush, and, if necessary, for other water-related hazards, including ship-generated waves, ice piling and ice jamming, except in respect of Wanapitei Lake in the Nickel District Conservation Authority, the applicable flood event standard for that lake being the one set out in item 1 of Table 16 of Schedule 1,

(ii) the predicted long-term stable slope projected from the existing stable toe of the slope or from the predicted location of the toe of the slope as that location may have shifted as a result of shoreline erosion over a 100-year period, and

(iii) where a dynamic beach is associated with the waterfront lands, an allowance of 30 metres inland to accommodate dynamic beach movement, except in the areas within the jurisdictions of the Mattagami Region Conservation Authority, the Nickel District Conservation Authority and the North Bay-Mattawa Conservation Authority where the allowance is 15 metres inland; and

(b) the area that is an additional 15 metres allowance inland from the area described in clause (a).

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### Regulation Allowances

Regulating the 15-metre allowance adjacent to shoreline hazards allows SVCA to provide protection against unforeseen or predicted conditions that could have an adverse effect on natural conditions or shoreline processes. It likewise protects access to the shoreline hazard areas and addresses issues related to accuracy of modeling and analysis used to establish the limits of flooding, erosion and dynamic beach hazards.

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Sections 4.6.1, 4.6.2, and 4.6.3 below provide brief summaries of the flooding, erosion and, where applicable, dynamic beach processes and functions that affect the shoreline of Lake Huron, and the policies for implementing the requirements under the CA Act and O. Reg. 41/24.

### 4.6.1 The Lake Huron Shoreline Flooding Hazard

In general, flooding along the Lake Huron Shoreline is a phenomenon influenced by water level fluctuations. Where flooded lands are coupled with storm events, the cumulative impact can and frequently does pose significant degrees of risk to development.

Understanding the interrelationship between pre-storm flooding, storm setup, wave height, wave uprush and other water related hazards (i.e. wave spray, ice) is important in managing a potentially flood susceptible shoreline. In terms of human use and occupation of the low-lying Great Lakes – St. Lawrence River system shorelines, development decisions based on or during periods of low water

levels can present the most serious problem. During lower water levels, the potential flood hazard to homes, cottages and other development often goes unrecognized. Consequently, when water levels return to long-term averages or high-water levels, flood damages are sustained. These damages are frequently quite significant (MNR, 1996b).

The variable nature of water elevations of the Great Lakes is apparent from historical records. Of the two key factors influencing long-term and short-term changes in lake levels, natural phenomena (e.g. rainfall, evaporation, wind, storms, etc.) by far, cause the greater magnitudes of changes, than does human intervention (i.e. diversions, water control structures, etc.). The most familiar changes in lake levels are seasonal fluctuations as evidenced by average differences of about 0.6 to 1.1 metres in lake levels between the summer and winter months. Superimposed on these seasonal fluctuations are some extremely short periods of significantly larger magnitudes of lake level changes. The most temporary of these are caused by storm winds which blow over the lake surfaces pushing the water to the opposite side or end of the lake. When a wave breaks, it results in an increase in the mean water level in shore from the breaking point, referred to as wave set-up. Wave run-up refers to the uprush movement of a wave breaking on a shoreline. This is a function of the height and periodicity of the wave as well as the foreshore slope.

Flooding from Lake Huron affects the entire shoreline area, backshore areas, and extends up the lower portions of several rivers.

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### **SVCA's 100-year Lake Level**

In SVCA's jurisdiction, the 100-year flood level for Lake Huron is 177.6 m GSC, except for south of Point Clark where the elevation is 177.7 m GSC (Great Lakes System Flood Levels and Water Related Hazards, MNR 1989). These elevations were mapped based on the shoreline elevations that were present when the mapping was created in the 1980s.

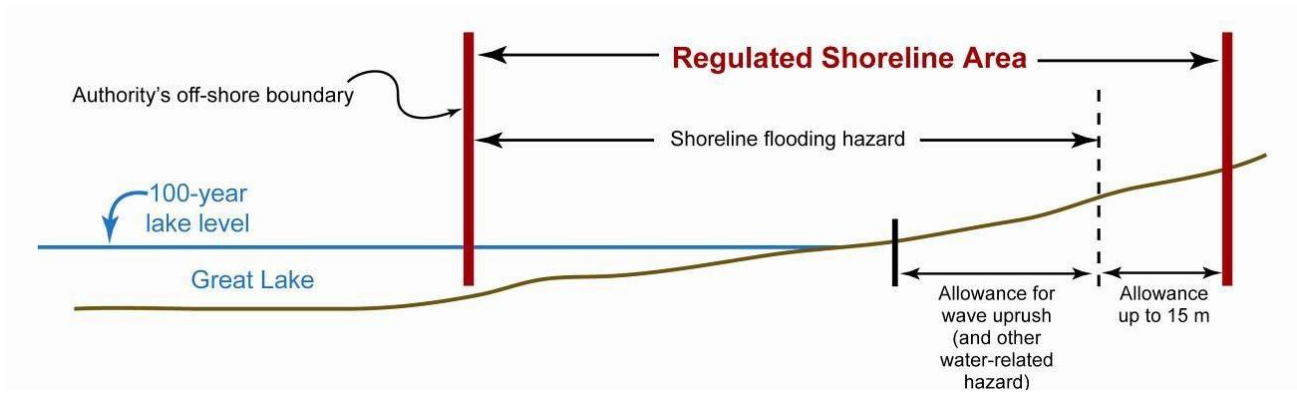
SVCA will revise the mapped location of the 100-year flood level only where new information suggests it should be located farther inland, not lakeward. This is because shoreline erosion and accretion are natural processes that typically correspond to periods of high and low lake levels, respectively.

Revising the hazard lakeward when lake levels are low and the shoreline is accreting would place any development permitted under this standard at risk when lake levels return to normal. In contrast, if shoreline processes, since mapping was completed, indicate the shoreline has been eroding, the SVCA's hazard and Regulated Area must follow the shoreline inland to control the appropriate hazard areas.

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The Lake Huron Flooding Hazard limit is defined as the combined influence of the following:

- 100-year flood level (static water level and storm surge), as determined by SVCA;
- Flood allowance for wave uprush; and
- Other water-related hazards, as shown in Figure 4-2 below:



**Figure 4-2 Lake Huron Shoreline Flooding Hazard and Regulated Area**

When determining the flooding hazard, other factors such as ice jamming or ship generated waves may result in an increased flood hazard. All shoreline areas and connecting channels form an ice cover. There are two types of ice which impact on shoreline features:

- Drift ice (slush, frazil, pancake, floe and composite ice), and
- Shorefast ice (anchor ice).

The impact to the shoreline by drift ice is dependent on the physical orientation and composition of the shoreline, wave action, wind setup and duration of ice action as the ice is transported alongshore and thrown onshore and then drawn offshore by wave action. Anchor or shorefast ice action on a shoreline has both a horizontal and vertical impact on shoreline features as the stationary ice grows or diminishes in response to the temperature fluctuations over the winter period. Ice piling results from wind blowing over the ice, pushing the ice landward. This can produce ridging and a large build-up of ice at the shore. This shore ice can then scour sections of the beach and nearshore as well as destroy structures close to the shore.

The moving ice can also remove boulders from the shallow areas, thereby reducing the level of shore protection provided by the boulders. Ice jamming, the build-up of ice at the outlets of the lakes into the connecting channels, can cause extensive damage to shore structures and nearshore profiles. At the same time, ice jams frequently pose problems by impeding water flows out letting from the lakes and into the connecting channels causing varying magnitudes in lake level increases depending on the size and duration of the ice jam blockage. A reduction to the established hazard limit shall only be considered if an engineering analysis (submitted by the applicant and approved by SVCA) justifies the reduction.

#### **4.6.1.1 Lake Huron Shoreline Flood Hazard – Not Permitted**

In general, development and interference activities will not be permitted within the shoreline flood hazard.

#### **4.6.1.2 Lake Huron Shoreline Flood Hazard – Permitted**

Notwithstanding the policies referenced above, the following will be permitted:

Permitted Activities / Uses	Conditions
<u>Like-for-like</u> Reconstruction or relocation of a building or structure	If it has been demonstrated to the satisfaction of the SVCA that:

Permitted Activities / Uses	Conditions
that has not been damaged or destroyed by the flooding hazard.	<ul style="list-style-type: none"> <li>a. it cannot be relocated to an area outside the flooding hazard,</li> <li>b. it is located in an area of least (and acceptable) risk,</li> <li>c. it will be protected from the flood hazard,</li> <li>d. it will not exceed the habitable floor area nor the footprint size of the previous structure, and</li> <li>e. it will be located no closer to the hazard than the previous structure.</li> </ul>
Development associated with the construction of a driveway or similar, to provide access to lands outside of the shoreline hazard	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the provision of safe access (<a href="#">Section 3.6.1.9</a>) has been met.</li> </ul>
<p>Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines.</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Minor removal or placement of fill and site grading.</p> <p>Stream bank, slope and valley stabilization work to protect existing development.</p> <p>Conservation or restoration projects.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the activity cannot be relocated to an area outside the hazard.</li> </ul>
Shoreline erosion protection including revetments, shore walls, etc.	See Sections <a href="#">4.6.1.3</a> and <a href="#">4.6.1.4</a> .
Replacement of sewage disposal	The replacement system should be located outside of

Permitted Activities / Uses	Conditions
systems	the shoreline flood hazard where possible and only permitted within the shoreline flood hazard if located in the area of lowest risk.
Shoreline dredging	<p>The submitted proposal demonstrates that:</p> <ul style="list-style-type: none"> <li>a. dredging will not occur within a wetland</li> <li>b. dredging will not create a new or aggravate an existing hazard (flooding, erosion, dynamic beach),</li> <li>c. all dredged material will be removed from the lake and placed in a location acceptable to SVCA,</li> <li>d. appropriate erosion and sediment control measures are implemented, and</li> <li>e. landowner permission is obtained.</li> </ul>

### Shoreline Protection Structures

The Lake Huron shoreline is a dynamic and ever-changing landscape due to fluctuating lake levels, wave action and other natural processes. Where previously constructed buildings and structures are at risk to these processes, landowners will sometimes consider the installation of shoreline protection structures to safeguard their investment.

Shoreline protection structures come in many forms, such as concrete vertical walls and sloped revetments, and can incorporate a variety of different materials. Many such structures were installed along the shoreline following the record high lake levels experienced in the mid-1980s, at a time when shoreline development was not regulated the same way it is today.

If not built correctly, shoreline protection structures can fail pre-maturely or aggravate the flooding and erosion hazards they are meant to protect against. They can also deflect powerful wave energy onto adjacent properties that may not have the same degree of protection. All shoreline protection structures have lifespans and should be viewed as temporary solutions that will require future maintenance.

Where such structures are permissible, SVCA suggests considering shoreline protection structures as a last resort to protect existing development and infrastructure, and to otherwise allow natural shoreline processes to proceed as they always have.

#### 4.6.1.3 Maintenance and Reconstruction of Lake Huron Shoreline Protection Structures – Permitted

Repairs or reconstruction of existing shoreline protection structures will be permitted where:

- a. the original design is generally followed,

- b. the same or similar type of material is used,
- c. the height, length, and location of the original structure does not change, and
- d. SVCA staff are satisfied the structure will not negatively impact erosion on adjacent properties.

SVCA will review the proposal and site details to ensure that these conditions can be met. If they cannot be met, Section 4.6.1.4 below shall apply.

#### **4.6.1.4 New or Modified Lake Huron Shoreline Protection Structures – Permitted**

New shoreline protection structures or modifications will be permitted where:

- a. the structure is meant to protect existing development or infrastructure, rather than to allow new or more intensive development to encroach into the shoreline hazard,
- b. it is located on land owned by the applicant and will be located as close to the existing development or infrastructure as possible,
- c. a study is completed and stamped by a qualified professional engineer with coastal qualifications at the applicant's expense and to the satisfaction of SVCA staff, that
  - i. provides a description of the coastal processes impacting the subject property,
  - ii. determines the approximate lifespan and maintenance requirements of the proposed structure, and
  - iii. demonstrates that the structure will not create a new or aggravate an existing flooding, erosion or dynamic beach hazard on the subject property or on adjacent properties.

SVCA staff may require evidence of the professional engineer's coastal qualifications in the form of a brief CV outlining academic/training qualifications and any subsequent professional activities such as studies, reports, and publications. The engineer responsible for the study must contact the SVCA to discuss these requirements and the formation of a project-specific Terms of Reference, as needed.

#### **4.6.1.5 Allowance Adjacent to the Lake Huron Shoreline Flood Hazard – Permitted**

Development and interference activities will be permitted within the allowance adjacent to the shoreline flood hazard if the submitted plans demonstrate to the satisfaction of the SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.

The submitted plans shall demonstrate that:

- a. the activity will not create a new or aggravate an existing shoreline flooding hazard,
- b. the activity will not impede access for emergency works, maintenance and evacuation, and
- c. the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control and site stabilization/restoration plans.

### **4.6.2 The Lake Huron Shoreline Erosion Hazard**

Many geological, topographical and meteorological factors determine the erodibility of a shoreline.

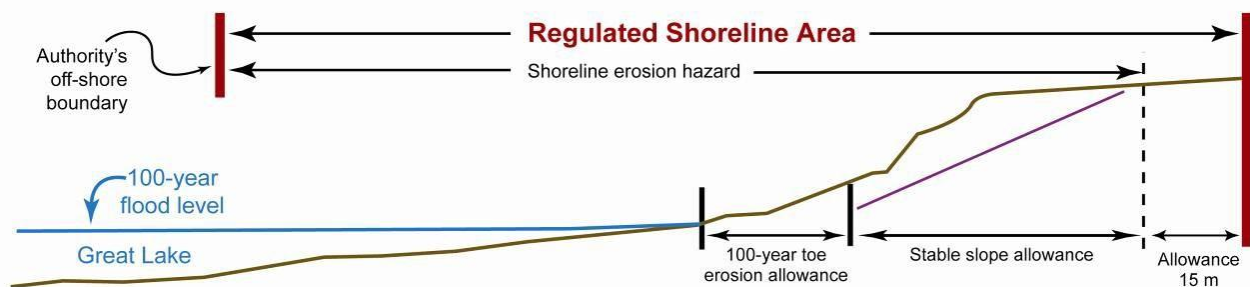


These include soil type, surface and groundwater, bluff height, vegetation cover, shoreline orientation, shoreline processes, wind and wave climate, and lake level fluctuations. The rate of erosion may be heightened during severe storm events, resulting in large losses of land over a very short period of time. These large losses, which are more evident immediately following major storm events, can periodically obscure the long-term processes. In the absence of human intervention and/or the installation of remediation measures, once material is removed, dislodged or extracted from the shore face and near shore profile, it cannot reconstitute with the original material and is essentially lost forever. Even with the installation of remedial measures (i.e. assumed to address the erosion hazard), the natural forces of erosion, storm action/attack and other naturally occurring water and erosion related forces may prove to be such that the remedial measures may only offer a limited measure of protection and may only reduce or address the erosion hazard over a short period of time.

### Beach or Bluff?

The extent of the shoreline erosion hazard limit depends on the shoreline type: bluff or beach. Beaches are the dominate shoreline type in SVCA's jurisdiction. The landward limit of the erosion hazard in these environments is equal to the flooding hazard, being 15 metres inland from the [100-year lake level](#). Where bluffs are present, the erosion hazard limit is determined using the 100-year erosion rate (the average annual rate of recession extended over a hundred-year time span), an allowance for slope stability, and an erosion allowance. Bluffs exist where the shore profile landward of the beach material rises steeply, where the slope ratio is typically greater than 3 (horizontal) to 1 (vertical) and where the elevation above the beach is greater than 2 metres.

The shoreline bluff erosion hazard limit includes the 100-year erosion allowance plus the predicted long-term stable slope projected from the stable toe of slope. The Regulated Area includes these hazard areas plus an additional allowance of 15 metres (Figure 4-3).



**Figure 4-3 Lake Huron Shoreline Erosion Hazard (Bluffs) and Regulated Area**

The 100-year erosion or recession allowance is calculated by multiplying the average annual recession rate by 100. There must be at least 35 years of reliable recession information to determine the annual recession rate. Where reliable recession information is not available, provincial guidelines call for a standard erosion allowance of 30 metres.

The stable slope allowance is a horizontal allowance measured landward from the toe of the shoreline bluff that is three times the height of the bluff. The height is the difference in elevation between the toe of the shoreline bluff, which may be above the surface of the water, or below it, and the top or first lakeward break in slope.



A reduction to the established hazard limit shall only be considered if a geotechnical engineering analysis (submitted by the applicant and approved by SVCA), justifies the reduction.

To slow down the erosion of shorelines, structures such as breakwaters, seawalls and revetments have been used. MNR Technical Guidelines provide additional guidance for considering how these structures may be considered. Even with the installation of these measures however, the natural forces of erosion, storm action and other naturally occurring water and erosion related forces may prove to be such that the remedial measures may only offer a limited measure of protection and may only reduce or address the erosion hazard temporarily. Even if the shoreline is successfully armoured, the near shore lake bottom continues to erode, and this process is typically more active on cohesive shorelines. Eventually, lakebed down cutting will undermine the shoreline armouring causing the structure to fail. These problems usually occur on updrift or downdrift properties, aggravating off-site hazards and posing detrimental impacts to a wide variety of environmental components of the shoreline ecosystem.

Shoreline hardening should generally be avoided. It is further recommended that Shoreline Management Plans be undertaken to assist in developing shoreline specific policies and to evaluate whether the implementation of erosion protection measures is appropriate.

#### 4.6.2.1 Shoreline Erosion Hazard – Not Permitted

In general, development and interference activities will not be permitted within the shoreline erosion hazard.

#### 4.6.2.2 Shoreline Erosion Hazard – Permitted

Notwithstanding the policies referenced above, the following development and interference activities will be permitted:

Permitted Activities / Uses	Conditions
<u>Like-for-like</u> Reconstruction or relocation of a building or structure that has not been damaged or destroyed by the erosion hazard.	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>it cannot be relocated to an area outside the erosion hazard,</li> <li>it is located in an area of least (and acceptable) risk,</li> <li>it will be protected from the erosion hazard through the incorporation of appropriate building design parameters,</li> <li>it will not exceed the habitable floor area nor the footprint size of the previous building or structure, and</li> <li>it will be located no closer to the hazard than the previous building or structure.</li> </ol>
Development associated with the construction of a driveway or similar to provide access to lands outside of the	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p>

Permitted Activities / Uses	Conditions
shoreline hazard.	<ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the provision of safe access (Section 3.7.1.9) has been met.</li> </ul>
<p>Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines.</p> <p>Stream bank, slope and valley stabilization work to protect existing development.</p> <p>Conservation or restoration projects.</p> <p>Development activity associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Minor removal or placement of fill and site grading.</p> <p>Construction of stairs.</p> <p>Minor landscaping.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the activity cannot be relocated to an area outside the hazard.</li> </ul>
Shoreline erosion protection including revetments, shorewalls, etc.	See Section <a href="#">4.6.1.3</a> and Section <a href="#">4.6.1.4</a> within the Shoreline Flood Hazard section.
Replacement of sewage disposal systems	The replacement system should be located outside of the shoreline erosion hazard where possible and only permitted within the shoreline erosion hazard if located in the area of lowest risk.

#### 4.6.2.3 Allowance Adjacent to the Shoreline Erosion Hazard – Permitted

Development and interference activities will be permitted within the allowance adjacent to the shoreline erosion hazard if the submitted plans demonstrate to the satisfaction of the SVCA that

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural

hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.

The submitted plans shall demonstrate that:

- a. the activity will not create a new or aggravate an existing erosion hazard,
- b. the activity will not impede access for emergency works, maintenance and evacuation, and
- c. the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control and site stabilization/restoration plans.

#### **4.6.3 The Lake Huron Shoreline Dynamic Beach Hazard**

A dynamic beach is considered an unstable accumulation of shoreline sediments along the Great Lakes – St. Lawrence River system and large inland lakes. In dynamic beach areas, topographic elevations can change due to the accumulation or loss of beach materials through the effects of wind and wave action. These changes can occur seasonally or yearly and, at times, quite rapidly and dramatically. As such, the depiction and evaluation of the hazard susceptibility of dynamic beaches should be dependent on the level of information, knowledge and understanding of the beach sediment budget and the cross-profile width over which most of the dynamic profile changes are taking place. The dynamic beach hazard is only applied where:

- Beach or dune deposits exist landward of the water line (e.g. land/water interface),
- Beach or dune deposits overlying bedrock or cohesive material are equal to or greater than 0.3 metres in thickness, 10 metres in width and 100 metres in length along the shoreline, and
- Where the maximum fetch distance measured over an arc extending 60 degrees on either side of a line perpendicular to the shoreline is greater than 5 km. This normally does not occur where beach or dune deposits are located in embayment's, along connecting channels and in other areas of restricted wave action where wave related processes are too slight to alter the beach profile landward of the waterline.

The criteria used to define and classify a section of shoreline as a dynamic beach are intended to be applied over a stretch of shoreline in the order of 100 metres or more in length. Where shorter sections of sediments occur on a rocky or cohesive shoreline, they are likely to be transitory. Beach width and thickness should be evaluated under calm conditions and at water levels between datum (IGLD) and the average annual low water level. When lake level conditions are higher, consideration should be given to the submerged portion of the beach.

Mapping should not take place during high lake level conditions. It is expected that the person carrying out the mapping will exercise judgment, based on knowledge of the local area and historical evidence, in those areas where the beach width is close to the suggested criteria for defining a dynamic beach.

The shoreline reaches that are identified as dynamic beach were previously classified by the Ministry of Natural Resources. Approximately 35% of the total length of the SVCA shoreline is classified as dynamic beach.

#### **Regulating the Dynamic Beach Hazard**

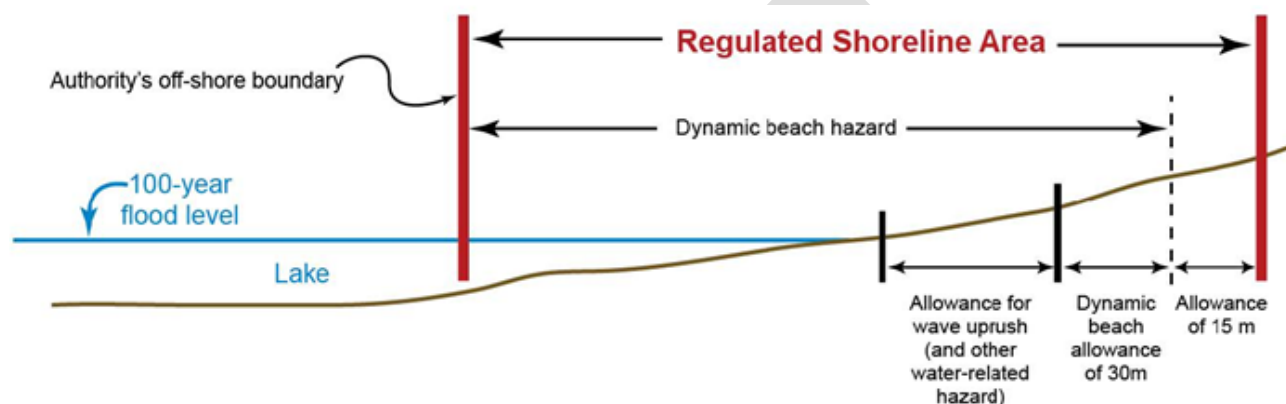
To delineate and determine the regulation limit for the dynamic beach hazard, the flooding hazard limit must be known. The flooding hazard limit combines the [100-year flood elevation](#) plus wave

uprush.

The dynamic beach hazard includes:

- [100-year flood level](#), as determined by SVCA,
- An allowance for wave uprush and if necessary, an allowance for other water related hazards, including ship generated waves, ice piling and ice jamming, and
- An allowance inland of 30 metres<sup>3</sup> to accommodate for dynamic beach movement on the Great Lakes.

The Regulated Area associated with dynamic beaches includes the dynamic beach hazard, plus a 15-metre allowance. See Figure 4-4.



**Figure 4-4 Lake Huron Dynamic Beach Hazard and Regulated Area**

Where the dynamic beach hazard intersects a building or structure, the dynamic beach hazard limit ends at that point, while the SVCA's Regulated Area would include the entire building or structure.

#### Regulation Allowances

Regulating the 15-metre allowance adjacent to shoreline hazards, including the dynamic beach, allows SVCA to provide protection against unforeseen or predicted conditions that could have an adverse effect on natural conditions or shoreline processes. It likewise protects access to the shoreline hazard areas and addresses issues related to accuracy of modeling and analysis used to establish the limits of flooding, erosion and dynamic beach hazards.

##### 4.6.3.1 Dynamic Beach Hazard – Not Permitted

In general, development and interference activities will not be permitted within the dynamic beach hazard.

##### 4.6.3.2 Dynamic Beach Hazard – Permitted

Notwithstanding the policies referenced above, the following development and interference activities will be permitted:

<sup>3</sup> The standard 30-metre allowance for dynamic beaches can be adjusted landward or lakeward where an assessment completed by qualified coastal expert in consultation with SVCA demonstrates that a different allowance is warranted.

Permitted Activities / Uses	Conditions
<p><u>Like-for-like</u> Reconstruction or relocation of a building or structure that has not been damaged or destroyed by the shoreline hazard.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. it cannot be relocated to an area outside the dynamic beach hazard,</li> <li>b. it is located in an area of least (and acceptable) risk,</li> <li>c. it will be protected from the dynamic beach hazard through the incorporation of appropriate building design parameters,</li> <li>d. it will not exceed the total floor area nor the footprint size of the previous building or structure, and</li> <li>e. it will be located no closer to the hazard than the previous building or structure.</li> </ul>
<p>Development activity associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Underground public infrastructure (e.g. sewers, pipelines)</p> <p>Conservation or restoration projects</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the activity cannot be relocated to an area outside the hazard.</li> </ul>
<p>Repairs to existing shoreline erosion protection including revetments, shorewalls, etc.</p>	<p>If completed in accordance with the conditions listed under Section 4.6.1.3. New shoreline erosion protection is generally not permissible within the dynamic beach hazard.</p>
<p>Replacement of sewage disposal systems</p>	<p>The replacement system should be located outside of the dynamic beach hazard and will only be permitted within the dynamic beach hazard if located in the area of lowest risk.</p>

#### 4.6.3.3 Allowance Adjacent to the Dynamic Beach Hazard – Permitted

Development and interference activities will be permitted within the allowance adjacent to the dynamic beach hazard if the submitted plans demonstrate to the satisfaction of the SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and

- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.

The submitted plans shall demonstrate that:

- a. the activity will not create a new or aggravate an existing dynamic beach hazard,
- b. the activity will not impede access for emergency works, maintenance and evacuation, and
- c. the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control and site stabilization/restoration plans.

#### **4.6.3.4 Inverhuron Specific Policies**

Some existing dwellings located along the Lake Huron Shoreline in the community of Inverhuron are partially or entirely within the wave uprush and/or the dynamic beach allowances associated with Lake Huron. The following policies apply:

- a. new development activities are not permitted in the flood hazard of Lake Huron, including the allowance for wave uprush,
- b. like-for-like reconstruction or redevelopment activities may be permitted in the allowance for wave uprush provided the redevelopment does not intensify the use and the building or structure is improved with regards to ability to withstand applicable hazards to the satisfaction of SVCA,
- c. like-for-like reconstruction or redevelopment activities may be permitted within the dynamic beach allowance provided the work will not result in more than a 25% increase to the size that the building or structure was in 2006, and will not result in additional dwelling units,
- d. development and interference activities within the 15-metre allowance adjacent to the shoreline hazard shall be permitted in accordance with [Section 4.6.3.3](#), and
- e. where development is permitted in accordance with clauses a. to d. above, the development shall not extend west of existing development on the lot.

#### **4.6.3.5 Baird Coastal Reports<sup>4</sup> Shoreline Management Area Policies**

Existing dwellings located along the Lake Huron Shoreline in the Township of Huron Kinloss are often partially or entirely within the Dynamic Beach setback or are within or adjacent to the wave uprush allowance associated with Lake Huron. The following policies apply:

- a. new development is not permitted in the wave uprush allowance or within the flood hazard of Lake Huron,
- b. like-for-like reconstruction or redevelopment may be permitted in the wave uprush allowance provided the redevelopment does not intensify the use and the building or structure is improved with regards to ability to withstand applicable hazards,
- c. new development within the dynamic beach hazard may be permitted provided the development is located at least 30 metres inland from the [100-year lake level](#) and is:
  - i. elevated to 181.5 m GSC for openings located less than or equal to 30 metres from the

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<sup>4</sup> Huron-Kinloss Dynamic Beach Study Phase II prepared by W.F. Baird & Associates Coastal Engineers Ltd. (2008); Huron-Kinloss Dynamic Beach Study Phase III-South of Concession 6 prepared by W.F. Baird & Associates Coastal Engineers Ltd. (2010).

- 100-year flood level,
- ii. elevated to 179.5 metres GSC for openings located 45 metres from the 100-year flood level, or
- iii. elevated to the linearly interpolated elevation between 181.5 metres GSC and 179.5 metres GSC for openings located between 30 metres and 45 metres respectively from the [100-year lake level](#), and
- iv. for shoreline areas south of Jardine's Creek in Point Clark where the profile is uncharacteristically shallow, lower elevation requirements will be considered by SVCA on a case-by-case basis, and may require comment from a Coastal engineer to determine site-specific floodproofing requirements.
- d. existing shoreline sand dunes should be avoided and improved to original condition, avoided by new development by at least 5 metres, and allowed to have approximately 1 vertical to 5 horizontal side slopes, and,
- e. natural dune vegetation species and features shall be avoided or addressed by the proposed development.

## **4.7 Regulatory Floodplain of River or Stream Valley Specific Policies**

The area regulated by SVCA within regulatory floodplains of river and stream valleys is described in section 2 of O. Reg. 41/24. Riverine floodplains are further captured in subsection 28 (1) of the CA Act, under hazardous lands, which is defined in [Section 4.2.1](#) of this manual.

### **4.7.1 Riverine Flooding Hazards: Definition and Context**

For most of the Saugeen Valley watershed, the Riverine Flooding Hazard is based on the greater of the Hurricane Hazel storm event (the Regional Storm), the 100-year return period flood, or an observed flood event such as Frazil Ice flooding in specific areas. For the Saugeen, Penetangore, Pine River and Lake Fringe watersheds, the Riverine Flooding Hazard is largely based on the Hurricane Hazel event. However, near the mouth of the Saugeen River in Southampton the 100-year return period flood is used. The larger flood event is called the Regulatory Flood, the limits of which define the extent of the Riverine Flooding Hazard. This is specified in O. Reg. 41/24.

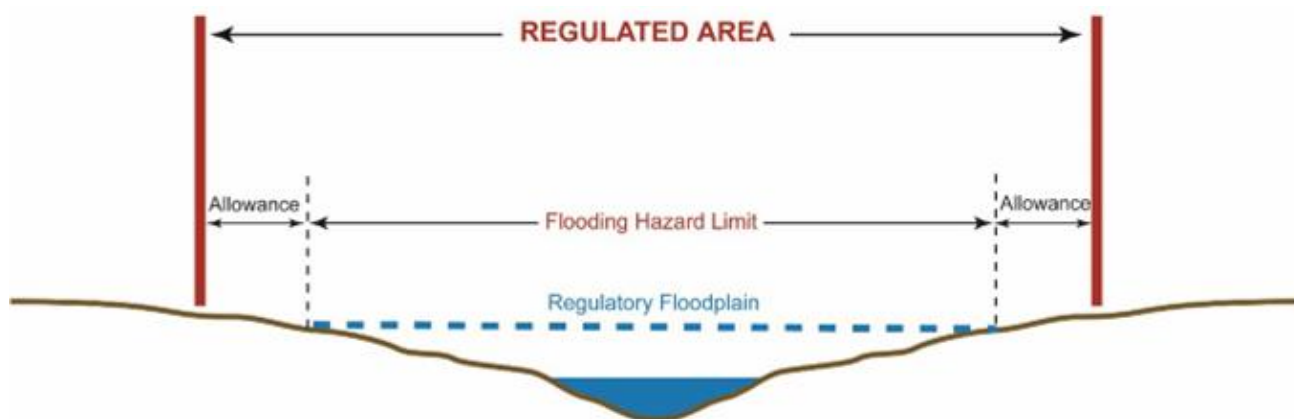
The Regulated Area includes the Riverine Flooding Hazard (also referred to as the Regulatory Floodplain), plus a 15-metre allowance (see Figure 4-5). The allowance is included to address limitations in base mapping scale and accuracy and to consider works directly adjacent to the Riverine Flooding Hazard, which could aggravate or increase the hazard risk.

Within Ontario, there are three policy concepts for floodplain management: One-Zone, Two-Zone, and special policy area (SPA). The Regulated Areas within the Saugeen Valley watershed associated with the Riverine Flooding Hazard consist of One-Zone and Two-Zone Policy Areas. Regardless of the approach applied, development and interference activities within the Regulated Area associated with the riverine floodplain requires a permit from the SVCA.

### **4.7.2 One Zone Policy Areas**

In a One-Zone Policy Area, the entire Regulatory Floodplain is considered the floodway. Figure 4-5 illustrates the Regulated Area associated with a One-Zone floodplain and includes a 15-metre allowance. The majority of the SVCA watershed is managed as a One-Zone Policy Area.





**Figure 4-5 Riverine Flooding Hazard – Regulated Area for One-Zone Policy Areas**

The following policies apply to development and interference activities proposed in a One-Zone Policy Area subject to a Riverine Flooding Hazard. Please note, where specific activities are not addressed in these policies, the general provisions listed in [Section 4.4.2](#) apply.

#### **4.7.2.1 Floodproofing**

Where development and interference activities are permissible within the flood hazard limit, they must be floodproofed to the satisfaction of SVCA in accordance with the specific policies below and the floodproofing information included in [Section 4.7.4](#).

#### **4.7.2.2 One Zone – Not Permitted**

In general, development and interference activities will not be permitted within the flood hazard limit of a river or stream valley.

#### **4.7.2.3 One Zone – Permitted**

Notwithstanding the policies referenced above, the following development and interference activities will be permitted within the flood hazard limit of a river or stream valley:

Permitted Activities / Uses	Conditions
<u>The like-for-like</u> Reconstruction or relocation of a building or structure that has not been damaged or destroyed by riverine flooding.	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. it cannot be relocated to an area outside the flooding hazard,</li> <li>b. it is located in an area of least (and acceptable) risk,</li> <li>c. it will be protected from the flood hazard through the incorporation of appropriate floodproofing measures (see <a href="#">Section 4.7.4</a>), that will not negatively impact flooding on adjacent properties,</li> <li>d. it will not exceed the habitable floor area nor the footprint size of the previous structure,</li> <li>e. it will be located no closer to the hazard than the previous structure, and</li> </ul>



Permitted Activities / Uses	Conditions
	<ul style="list-style-type: none"> <li>f. existing habitable floor space and electrical, mechanical and heating services located below the elevation of the Regulatory Flood that cannot feasibly be located above the elevation of the Regulatory Flood, <ul style="list-style-type: none"> <li>i. shall be reconstructed at the same or higher elevations as existing,</li> <li>ii. shall ensure the total habitable floor space below the elevation of the Regulatory Flood will not exceed the total habitable floor space below the elevation of the Regulatory Flood of the existing building; and</li> <li>iii. shall use passive dry floodproofing methods in accordance with <a href="#">Section 4.7.4</a>.</li> </ul> </li> </ul>
<p>Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Minor removal or placement of fill and site grading.</p> <p>Minor encroachment by a sewage disposal system.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the activity cannot be relocated to an area outside the hazard.</li> </ul>
Replacement of on-site sewage disposal system.	The replacement system should be located outside of the flood hazard where possible and only permitted within the flood hazard if located in the area of lowest risk.
Activities associated with the construction of a driveway or similar to provide access to lands outside of the flood hazard.	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> <li>c. the provision of safe access (<a href="#">Section 3.6.1.9</a>) has</li> </ul>

Permitted Activities / Uses	Conditions
	<p>been met, and</p> <p>d. for undeveloped lots in the floodway, any proposed habitable buildings would not be surrounded by land subject to flooding under the regulatory flood event.</p>
<p>Stream bank, slope and valley stabilization work to protect existing development.</p> <p>Conservation or restoration projects.</p> <p>Infrastructure which by its nature must locate in floodplains, including but not limited to stairways and access points.</p>	<p>If it has been demonstrated to the satisfaction of SVCA staff that:</p> <p>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and</p> <p>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.</p>
<p>In-ground pools, grading, decks, open-sided shelters, landscape retaining walls not used for streambank stabilization.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <p>a. there is no viable alternative outside of the Regulatory floodplain or if there is no feasible alternative site, the proposed development is located in an area of least (and acceptable) risk,</p> <p>b. the proposed works do not create new hazards or aggravate flooding on adjacent or other properties and there are no upstream or downstream hydraulic impacts,</p> <p>c. the development is protected from the flood hazard in accordance with established floodproofing techniques,</p> <p>d. the proposed development will not prevent access for emergency works, maintenance and evacuation,</p> <p>e. the potential for surficial erosion has been addressed through the submission of proper drainage, erosion and sediment control and site stabilization/restoration plans,</p> <p>f. excavated soils are removed from the floodplain, and</p> <p>g. erosion hazards have been adequately addressed.</p>
<p>Above-ground parking lots.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <p>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil</p>

Permitted Activities / Uses	Conditions
	<p>or bedrock,</p> <p>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</p> <p>c. the provision of safe access (<a href="#">Section 3.6.1.9</a>) has been met.</p>

### Floodplain Spill Areas

There are areas within SVCA's watershed in which floodplain "spills" occur. A floodplain spill area exists where flood waters are not physically contained within the valley or stream corridor and exit into surrounding lands. Consequently, the limit and depth of flooding are difficult to determine. Spill areas occur naturally or can occur because of downstream barriers to the passage of flood flows such as undersized bridges or culverts.

SVCA does not regulate development in spill areas in the same manner as development within floodplain areas, as these areas are not readily defined and the storage/flow that occurs in these areas is not considered as part of the natural floodplain, hence preservation of flood storage is not required. Where engineered floodplain mapping has been completed for a significant reach of a watercourse and spill locations are identified, SVCA may permit development provided appropriate flood hazard mitigation can be established. Regulated spill areas are typically located within 50 metres of the indicated "Spill" area on engineered floodplain mapping and are subject to the policies in [Section 4.7.3.2](#). Mitigations for development proposed within a spill area generally include raising the elevation of proposed buildings or structures above the anticipated flood level and keeping grading to a minimum.

#### 4.7.2.4 Flood Hazard Allowance of the Regulatory Floodplain – Permitted

Development and interference activities will be permitted within the allowance of a Regulatory floodplain if it has been demonstrated to the satisfaction of the SVCA that:

- the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and
- the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.

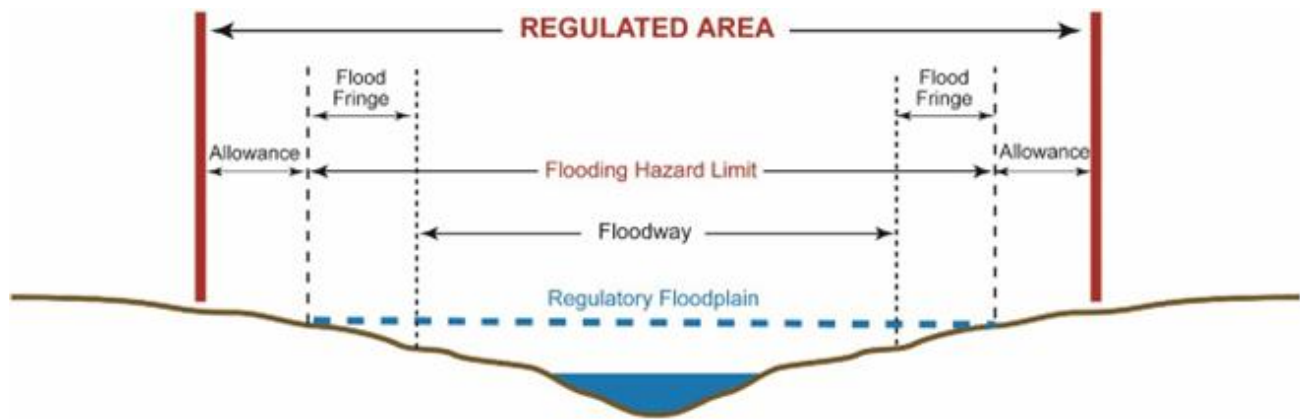
The submitted plans shall demonstrate that

- the activity will not create a new or aggravate an existing shoreline flooding hazard,
- the activity will not impede access for emergency works, maintenance and evacuation, and
- the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control and site stabilization/restoration plans.

### 4.7.3 Two-Zone Policy Areas

A Two-Zone Policy Area divides the Regulatory Floodplain into a floodway and a flood fringe (see

Figure 4-6). The floodway is the portion of the floodplain where flood depths and velocities are such that development and site alteration would cause a danger to public health and safety or property damage. The floodway is treated similar to the One-Zone floodplain, where new development is generally not permitted. The flood fringe is the portion of the floodplain that could potentially be safely developed or altered with no adverse impacts. New development or redevelopment is permitted in the flood fringe if it is protected to the level of the Regulatory Flood and consistent with Two-Zone policies.



**Figure 4-6 Riverine Flooding Hazard – Regulated Area for Two-Zone Policy Areas**

A Two-Zone Policy area may be considered where SVCA in cooperation with the municipality, after due consideration of local circumstances, agrees that application of the concept is suitable. The application of a Two-Zone Policy may be applied in urban settlement areas where the following conditions have been met:

- a. the application of a One-Zone Policy would cause undue hardship to the community in existing serviced areas and/or where channel enhancements or major dyke works have been carried out,
- b. the application of a Two-Zone Policy Area is supported by the SVCA and the municipality after due consideration of a number of community-related and technical factors,
- c. a higher level of risk is accepted by the municipality and the SVCA,
- d. a hydraulic study is undertaken which determines the extent of the floodway and flood fringe in a Two-Zone scenario for the area, and
- e. the municipality incorporates appropriate policies and standards into its official plan and zoning by-laws.

The application of a Two-Zone Policy Area is not intended to be applied to the entire watershed or on a lot-by-lot basis, but rather on a sub-watershed or major reach basis. Where the SVCA and the municipality agree to the use of a Two-Zone Policy Area, appropriate official plan designations and zoning must be put into place by the municipality. The Two-Zone approach to floodplain management in SVCA's watershed applies to the communities of Durham, Neustadt, Paisley, Teeswater, and Walkerton.

### Two-Zone Policy Areas

In a Two-Zone Policy Area, the floodplain is divided into two distinct sections – the

floodway and the flood fringe. The floodway is that area of the floodplain that is required to pass the flows of greatest depth and velocity. The flood fringe lies between the floodway and the edge of the floodplain. Depths and velocities of flooding in the flood fringe are generally less than those in the floodway. The technical considerations used to determine the floodway-flood fringe delineation and the suitability of applying a Two-Zone policy are described in the Ministry of Natural Resources Technical Guide River and Stream Systems Flooding Hazard Limit (2002).

#### 4.7.3.1 Floodway (Two Zone) – Permitted

Development and interference activities in the floodway will only be permitted in accordance with One-Zone Policy Area policies in [Section 4.7.2](#).

#### 4.7.3.2 Flood Fringe and Spill Areas – Permitted

The following development and interference activities will be permitted in the Flood Fringe portion of a Two-Zone Policy Area, or within a designated Spill Area as identified on engineered floodplain mapping:

Permitted Activities / Uses	Conditions
Construction of a new building or structure (see below for reconstructions, additions, changes of use).	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the building or structure is floodproofed to the elevation of the Regulatory Flood in accordance with <a href="#">Section 4.7.4</a>,</li> <li>b. grading is kept to a minimum,</li> <li>c. structural engineering will be required should the lowest floor elevation be below the flood elevation,</li> <li>d. safe access is achieved (<a href="#">Section 3.6.1.9</a>),</li> <li>e. no basement is proposed, or the basement is floodproofed to the elevation of the Regulatory Flood. This may include structural engineering to ensure hydrostatic uplift and side pressure, velocity, impact loading, and waterproof design are addressed, and</li> <li>f. all habitable floor space and electrical, mechanical and heating services are located above the elevation of the Regulatory Flood.</li> </ul>
<u>The like-for-like</u> Reconstruction of an existing building or structure.	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the building or structure is floodproofed to the elevation of the Regulatory Flood in accordance with <a href="#">Section 4.7.4</a>,</li> <li>b. grading is kept to a minimum,</li> <li>c. structural engineering will be required should the</li> </ul>

Permitted Activities / Uses	Conditions
	<p>lowest floor elevation be below the flood elevation,</p> <ul style="list-style-type: none"> <li>d. safe access is achievable where feasible (<a href="#">Section 3.6.1.9</a>),</li> <li>e. no basement is proposed, or the basement is floodproofed to the elevation of the Regulatory Flood. This may include structural engineering to ensure hydrostatic uplift and side pressure, velocity, impact loading, and waterproof design are addressed,</li> <li>f. habitable floor space and electrical, mechanical and heating services may be located below the elevation of the Regulatory Flood if: <ul style="list-style-type: none"> <li>i. they were located below the elevation of the Regulatory Flood in the existing building,</li> <li>ii. locating them above the elevation of the Regulatory Flood is not feasible,</li> <li>iii. the total habitable floor space below the elevation of the Regulatory Flood will not exceed the total habitable floor space below the elevation of the Regulatory Flood of the existing building, and</li> <li>iv. the building is passive dry floodproofed as per <a href="#">Section 4.7.4</a>.</li> </ul> </li> </ul>
<p>Additions to existing buildings and structures or proposed changes of use.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. there is no feasible alternative site outside the Flood Fringe,</li> <li>b. ingress and egress is “dry” where this standard can be practically achieved, or floodproofed to an elevation which is practical and feasible, but no less than “safe”,</li> <li>c. the risk of structural failure due to potential hydrostatic/dynamic, impact loading, pressures is addressed,</li> <li>d. all habitable floor space is floodproofed,</li> <li>e. no basement is proposed, and any crawl space is non-habitable and designed to facilitate non-essential services only,</li> <li>f. for industrial, agricultural or commercial uses, when in a flood fringe area, floodproofing is recommended to the highest extent possible for additions up to 50 percent of the original ground floor area of the building</li> </ul>

Permitted Activities / Uses	Conditions
	<p>or structure<sup>5</sup> to a maximum of 100 square metres (1,076 square feet). All additions (built after Two-Zone Policy was introduced), combined must be equal to or less than 50 percent of the original ground floor area of the building or structure to a maximum footprint of 100 square metres (1,076 square feet). There is no size restriction to industrial, agricultural or commercial additions in a Spill Area. Additions beyond the above noted size threshold must be floodproofed in accordance with <a href="#">Section 4.7.4</a>, and</p> <p>g. for residential uses, when in the flood fringe, floodproofing is recommended to the highest extent possible for additions up to 50 percent of the original ground floor area of the building or structure<sup>6</sup> to a maximum of 46.5 square metres (500 square feet). All additions (built after Two-Zone Policy was introduced), combined must be equal to or less than 50 percent of the original ground floor area of the building or structure to a maximum footprint of 46.5 square metres (500 square feet). There is no size restriction to residential additions in a Spill Area. Residential additions beyond the above noted size threshold must be passive dry floodproofed in accordance with <a href="#">Section 4.7.4</a>.</p>
<p>Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines.</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Minor removal or placement of fill and site grading.</p> <p>Minor encroachment by a sewage disposal system.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>the activity cannot be relocated to an area outside the hazard.</li> </ol>
Stream bank, slope and valley	If it has been demonstrated to the satisfaction of the SVCA

<sup>5</sup> Where an addition has been previously constructed, it will be considered part of the "original ground floor" of the building or structure if it was constructed before Two-Zone Policy was introduced for that community (1990 in Durham, Neustadt, Paisley, and Walkerton; 2016 in Teeswater).

<sup>6</sup> Same as previous footnote.



Permitted Activities / Uses	Conditions
<p>stabilization work to protect existing development.</p> <p>Conservation or restoration projects.</p> <p>Infrastructure which by its nature must locate in floodplains, including but not limited to stairways and access points.</p>	<p>that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.</li> </ul>
Replacement of on-site sewage disposal systems.	The replacement system should be located outside of the flood hazard where possible and only permitted within the flood hazard if located in the area of lowest risk.
<p>Activities associated with the construction of a driveway or similar to provide access to lands outside of the flood hazard.</p> <p>Above-ground parking lots.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>c. the provision of safe access (<a href="#">Section 3.6.1.9</a>) has been met.</li> </ul>

#### 4.7.3.3 Silver Creek Policy Area – Permitted

In accordance with SVCA Motion E86-48, the floodway is 20 feet from the bank of Silver Creek in Walkerton and the rest of the floodplain area is considered flood fringe.

#### 4.7.4 Floodproofing

Floodproofing is a combination of structural changes and/or adjustments incorporated into the basic design and/or construction or alteration of individual buildings, structures or properties subject to flooding to reduce or eliminate flood damages. Total protection from flood damage cannot always be assured, however, if applied effectively, floodproofing can play a significant role in comprehensive floodplain management.

Floodproofing is most appropriate in situations where moderate flooding with low velocity and short duration is experienced. Although measures can be applied to both existing and new developments, it is usually impractical, expensive and extremely difficult to floodproof existing buildings. Since floodproofing is best incorporated into the initial planning and design stages, new development has the greatest potential for permanent structural adjustment. In general, floodproofing can be applied most economically and effectively in the design of new buildings in developing areas. It can also be applied to infilling situations and proposed additions in developed areas.



All floodproofing measures can be described as passive or active. The type of floodproofing required by SVCA depends on the nature of the development and the flood hazard at that location. The use of a building, particularly whether it is habitable or not, is a key factor. The habitable portion of a structure is defined as living space intended for use by the occupant with the key concern being overnight occupancy. A habitable room is further defined as any room in a dwelling unit used for or capable of being used for living, cooking, sleeping or eating purposes. Recognizing the required floodproofing measures are the minimum standard, where feasible, SVCA will require the most effective floodproofing measures to reach the requirements.

### **Passive Floodproofing**

Passive floodproofing measures tend to be incorporated into a building when it is being constructed and do not require flood warning or other action to put the flood protection into effect. Passive floodproofing can provide 'dry' protection (the building is designed to stay dry during a flood), or 'wet' protection (the building is designed to be flooded without being damaged). Passive floodproofing is the only acceptable floodproofing methodology for residential uses, and more specifically, passive dry floodproofing is the only acceptable floodproofing methodology for habitable uses.

Passive dry floodproofing methods generally include:

- raising a building or structure above the flood elevation on suitable fill material, and/or
- structurally engineering a building or structure to be waterproof and to withstand flood forces experienced at the site, up to and including the regulatory flood.

Passive wet floodproofing methods generally include:

- design elements that allow flood waters to enter a building
- the use of water-resistant construction materials
- elevating electrical and mechanical services and keeping areas below the flood elevation unfinished
- sloping floors and/or installing sump pumps for easier cleanup

The intent of wet floodproofing is to maintain structural integrity by avoiding external unbalanced forces from acting on buildings during and after a flood, to reduce flood damage to contents, and to reduce the cost of post flood clean up. Its use is limited to certain non-habitable structures (e.g. open-sided structures, parking garages, sheds), where flooding will not damage the structure.

#### **4.7.4.1 Passive Dry Floodproofing - Permitted**

Where the specific policies in Section 4.7 allow for development in a floodplain, the use of passive dry floodproofing methods can be suitable for habitable and non-habitable uses, subject to conditions that SVCA will identify during review of the proposal. Examples of typical conditions include:

- a. all openings (windows, vents, doors) and electrical shall be located above the regulatory flood level, with elevations clearly indicated on submitted plans and confirmed post-construction by a qualified engineer or certified Ontario Land Surveyor,
- b. structural details of foundation elements and/or specifications for fill materials and compaction procedures shall be prepared or approved by a qualified engineer at the applicant's expense,
- c. the responsible engineer shall certify in writing that the design has taken into account

regulatory flood (velocity and depth of flow) and site (soil type, bearing capacity, etc.) conditions encountered at the specific location of the development,

- d. the engineer's certificate shall confirm that the foundation and building are designed to withstand hydrostatic pressures and/or impact loading that would develop under water levels equivalent to the regulatory flood,
- e. the responsible engineer shall identify all operation and maintenance requirements that will ensure the effective performance of the floodproofing measures over the design life of the structure, and
- f. notwithstanding the conditions above, passive dry floodproofing shall not be suitable for the uses described in [Section 4.7.4.4](#).

#### **4.7.4.2 Passive Wet Floodproofing - Permitted**

Where the specific policies in Section 4.7 allow for development in a floodplain, passive wet floodproofing methods can be suitable for non-habitable uses, subject to conditions that SVCA will identify during review of the proposal. Examples of typical conditions include:

- a. basements are not permitted,
- b. the interior space below the regulatory flood level shall remain unfinished,
- c. proposals shall clearly indicate how flood waters can enter the structure automatically (i.e., manual action like opening doors, etc., is not required), to equalize hydrostatic pressure on either side of the foundation walls and slab,
- d. proposals must clearly indicate how impact loading is to be addressed,
- e. all mechanical and electrical equipment, heating/cooling units and ductwork, and hazardous materials shall be located above the regulatory flood level,
- f. construction material below the regulatory flood level shall be able to withstand anticipated flood conditions without being damaged,
- g. buildings shall be securely anchored to avoid becoming dislodged,
- h. top of windowsills shall be at least 150 mm below the finished exterior grade (to allow flood waters into the structure relieving hydrostatic pressure as soon as flooding of the surrounding land commences),
- i. to facilitate clean up, a sump pump or sloped floors may be required, and
- j. notwithstanding the conditions above, passive wet floodproofing shall not be suitable for the uses described in [Section 4.7.4.4](#).

#### **Active Floodproofing**

Active floodproofing provides 'dry' protection and requires some action for the measure to be effective, like closing watertight doors or installing flood shields. Operators typically require advance warning of the flood to make the flood protection operational. Active floodproofing is not an acceptable floodproofing methodology for habitable or residential uses.

#### **4.7.4.3 Active Floodproofing - Permitted**

Where the policies listed in Section 4.7 allow for development in a floodplain, active floodproofing

methods can be suitable for non-residential and non-habitable uses, subject to conditions that SVCA will identify during review of the proposal. Examples of typical conditions include:

- a. structural details of active floodproofing measures shall be prepared or approved by a qualified engineer at the applicant's expense,
- b. the responsible engineer shall certify in writing that the design has taken into account regulatory flood (velocity and depth of flow) conditions encountered at the specific location of the development,
- c. the engineer's certificate shall confirm that the measures are designed to withstand impact loading that would develop under water levels equivalent to the regulatory flood,
- d. the responsible engineer shall also provide all operation and maintenance requirements that will ensure the effective performance of the floodproofing measures over the design life of the structure,
- e. flood shields, if used, shall not exceed three feet in height, and
- f. notwithstanding the conditions above, active floodproofing shall not be suitable for the uses described in [Section 4.7.4.4](#).

#### **4.7.4.4 Uses Not Suitable for Floodproofing**

New development, regardless of the type of floodproofing proposed, will not be permitted to locate in the floodplain where the use is:

- a. associated with the manufacture, storage, disposal and/or consumption of hazardous substances or the treatment, collection and disposal of sewage, which would pose an unacceptable threat to public safety if they were to escape their normal containment/use as a result of flooding or failure of floodproofing measures,
- b. associated with institutional services, such as hospitals, nursing homes and schools, which would pose a significant threat to the safety of the inhabitants (i.e., the sick, the elderly, the disabled or the young), if involved in an emergency evacuation situation as a result of flooding or failure of floodproofing measures, or
- c. associated with services such as those provided by fire, police and ambulance stations and electrical sub-stations, which would be impaired during a flood emergency as a result of flooding or failure of floodproofing measures.

#### **4.7.5 Floodplain Compensation (Cut / Fill Balance) ~~Safe Access- (Ingress/Egress)~~**

Filling a floodplain reduces its flood storage capacity, can create a barrier to flood flows (conveyance), and can increase flood risks elsewhere on the property or on adjacent properties. Under the right circumstances, the loss of flood storage capacity and impacts to adjacent lands can be addressed by removing fill from elsewhere within the same general area of the floodplain to achieve a cut/fill balance. SVCA is developing guidelines that outline when floodplain compensation proposals are appropriate and the level of technical assessment that is required (e.g., topographic surveys, cut/fill assessments, floodplain assessments, etc.). In the interim, SVCA staff will work with clients on a case-by-case basis to determine if floodplain compensation is a possibility for their proposal, and what level of technical assessment may be required to satisfy SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.

~~The ability for the landowner, future landowners/occupants, public and emergency operations staff (police, firefighters, ambulance, municipal flood response teams etc.) to safely access a site during an emergency, such as a flooding or erosion event, is an important factor when considering any application for development activities. A permit application must be reviewed to ensure access to the proposed development is safe and appropriate for the proposed use. The applicant shall provide to the satisfaction of the CA, studies and/or plans that demonstrate how pedestrians, vehicles, emergency responders and equipment can gain access to and from the regulated feature in the event of a natural hazard. This includes ingress/egress that meets the access standards in these circumstances: during an event, for maintenance or repair, and/or construction of new remedial works.~~

~~In the context of new development activities, the risks should be controlled by prohibiting development in potentially dangerous or inaccessible portions of the regulated feature.~~

~~Where applications propose development within areas that have ingress/egress issues, it is recommended that the CA work with the applicant to ensure that safe access is achieved. Where safe access is not demonstrated or is not possible based on the proposed permit application, the CA should advise the applicant and try to work with the applicant to identify alternative options (if available).~~

~~If safe access cannot be ensured to the satisfaction of the CA, consideration should be given to recommending refusal of the permit application.~~

### **Specific Safe Access Criteria for Flood Hazards**

~~In accordance with the MNR Technical Guide: River & Stream Systems: Flooding Hazard Limit (2002), access to and from a site may be considered 'safe' for both pedestrians and automobiles where the following depth and velocity criteria are met:~~

- a. ~~the depth of flooding to the site of the building does not exceed 0.3 metres under regulatory flood conditions,~~
- b. ~~the velocity of floodwaters overtopping the access route does not exceed 1.7 metres per second under regulatory flood conditions, or~~
- c. ~~the product of flooding depth and velocity to the site of the building does not exceed 0.4 square metres per second.~~

~~Notwithstanding the above criteria, where the proposed development requires access onto an existing flooded roadway, the development may be permitted provided the following is addressed:~~

- a. ~~access to/from the site must have flood depths and velocities less than or equal to those experienced on the existing roadway, and~~
- b. ~~the affected municipal emergency services provides written confirmation that acceptable provisions for emergency ingress/egress, appropriate for the nature of the development and the flood hazard, are available.~~

~~For existing developed sites, safe access does not need to be addressed where a proposed secondary~~

~~or accessory building or structure is non-habitable and no additional risk to life or property would result.~~

~~Access/egress shall always remain dry for institutional buildings servicing the sick, the elderly, the disabled or the young and in buildings utilized for public safety purposes (i.e. police, fire, ambulance and other emergency measures).~~

~~For reconstruction of an existing structure, the following factors will be considered:~~

- ~~• The degree of risk with the use of the existing access,~~
- ~~• The ability to modify the existing private or public access or construct a new safe access,~~
- ~~• The ability to find and use the access during an emergency, and~~
- ~~• The ability and willingness of the municipality to allow staff and emergency vehicles to use the access (confirmation in writing may be considered).~~

#### **4.7.6 Inland Lakes**

Lands that are adjacent to and/or are close to the shorelines of inland lakes that have a surface area of greater than 2 hectares (5 acres) and less than 100 square km (39 square miles) and/or that respond to a single runoff event could be affected by flooding or erosion. These lands are within the jurisdiction of the SVCA. Any development or interference activities proposed within or on the regulated areas immediately adjacent to an inland lake will require a permit from the SVCA.

##### **4.7.6.1 Inland Lakes**

Development and interference activities along inland lake shorelines that are impacted by flooding or erosion hazards will be subject to the riverine flooding and erosion policies listed in Sections 4.7 and 4.8. ~~Development and interference activities will generally not be permitted within a minimum 15-metres of the shoreline. In situations where no development currently exists, a minimum 30 metre setback will be encouraged.~~

##### **4.7.6.2 Permanent Docks on Inland lakes**

Temporary docks are encouraged and exempt from permitting if the conditions outlined in [Section 4.5.1.2](#) are addressed. Permanent docking and related facilities to be placed wholly or partially within the water of inland lakes are discouraged. Any such facilities will be permitted if it has been demonstrated to the satisfaction of the SVCA that:

- a. it is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. it is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and
- c. the applicant is the owner of the bed of the lake or has obtained written permission from the landowner.

##### **4.7.6.3 Boathouse Reconstruction on Inland Lakes**

Boathouses are non-habitable structures meant to shelter boats from sun and rain that are situated partially or completely on a body of water. ~~Like-for-like B~~boathouse reconstruction will be permitted on inland lakes if it has been demonstrated to the satisfaction of the SVCA that:

- a. it will not exceed the footprint or floor space of the existing boathouse,
- b. it will be passive wet floodproofed in accordance with [Section 4.7.4.2](#),
- c. it is not likely to affect the control of flooding or erosion,
- d. it is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and
- e. the applicant is the owner of the bed of the lake or has obtained written permission from the landowner.

#### **4.7.6.4 Geographic Township of Brant Inland Lakes Specific Policies (Marl Lake, Lake Rosalind, Pearl Lake, Dankert Lake)**

It is SVCA practice to assume a flooding hazard of the above referenced lakes to be 1.5 metres/5 feet above the typical highwater level of the lake. Therefore, in locations where only the flooding hazard exists, the SVCA Hazardous Lands line is assumed to be drawn at the location where the elevation/contour is 1.5 metres/5 feet above the normal high water level of the lake. The SVCA Regulated Area extends 15 metres beyond/outwards from the SVCA Hazardous Lands line.

### **4.7.7 Dug Out/Isolated Ponds**

#### **4.7.7.1 New Dug Out/Isolated Ponds – Permitted**

New dug out/isolated ponds and enlargements, where not exempt from permitting in accordance with [Section 4.5.1.1](#), will be permitted within the Riverine Flooding Hazard if it has been demonstrated to the satisfaction of SVCA that:

- a. the pond is not located within the riverine erosion hazard,
- b. the pond is not located in a wetland,
- c. the pond is not connected to a watercourse channel,
- d. the finished side slopes are stable,
- e. appropriate sediment and erosion control measures are installed and maintained, and
- f. there are no negative impacts to the floodplain (includes considerations for spoil material).

#### **4.7.7.2 Existing Dug Out/Isolated Ponds – Permitted**

The maintenance of an existing dug out/isolated pond, where not exempt from permitting in accordance with [Section 4.5.1.1](#), will be permitted in the Riverine Flooding Hazard if it has been demonstrated to the satisfaction of SVCA that:

- a. the finished side slopes are stable,
- b. the pond is not deepened beyond the removal of accumulated sediment and vegetation,
- c. if within a wetland, the maintenance will not have an impact on wetland hydrology,
- d. appropriate sediment and erosion control measures are installed and maintained, and
- e. there are no negative impacts to the floodplain (includes considerations for spoil material).

## **4.8 Riverine Erosion Hazard Specific Policies**

The area regulated by SVCA within river and stream valleys is described in section 2 of O. Reg. 41/24:

**2.** (1) For the purposes of subparagraph 2 (iii) of subsection 28 (1) of the CA Act, river or stream valleys include river or stream valleys that have depressional features associated with a river or stream, whether or not they contain a watercourse, the limits of which are determined as follows:

1. Where the river or stream valley is apparent and has stable slopes, the valley extends from the stable top of the bank, plus 15 metres, to a similar point on the opposite side.
2. Where the river or stream valley is apparent and has unstable slopes, the valley extends from the predicted long term stable slope projected from the existing stable slope or, if the toe of the slope is unstable, from the predicted location of the toe of the slope as a result of stream erosion over a projected 100-year period, plus 15 metres, to a similar point on the opposite side.
3. Where the river or stream valley is not apparent, the valley extends,
  - (i) to the furthest of the following distances:
    - A. the distance from a point outside the edge of the maximum extent of the flood plain under the applicable flood event standard to a similar point on the opposite side, and
    - B. the distance from the predicted meander belt of a watercourse, expanded as required to convey the flood flows under the applicable flood event standard to a similar point on the opposite side, and
  - (ii) an additional 15-metre allowance on each side, except in areas within the jurisdiction of the Niagara Peninsula Conservation Authority.

#### **4.8.1 Riverine Erosion Hazards: Definition and Context**

Erosion is a natural process of soil loss due to human or natural processes. The Riverine Erosion Hazard within river or stream valleys is that area of riverbank and lands adjacent to watercourses where erosion is actively occurring and/or where development could create slope stability issues. According to the MNR Technical Guide for River and Stream Systems, Erosion Hazard Limit, the riverine erosion hazard applies to all watercourses and lake systems in the SVCA watershed. Large Inland Lake criteria for defining the erosion hazard does not apply.

The Riverine Erosion Hazard applies to those portions of the valleyland system that are both apparent (confined) and not apparent (unconfined). The extent of the hazard varies and is dependent on the characteristics of the bedrock and soils which comprise the valley slope, the degree to which the valley slope is stable or unstable, and whether the valley slope is subject to active erosion. Valley systems are considered to be apparent or confined where valley walls are greater than 2 metres, with or without a floodplain.

*Apparent Valleys* can exhibit three different conditions within which erosion hazards exist or may develop:

- valley slopes that are presently stable,
- valley slopes that are over-steepened and potentially unstable, and
- valley slopes that are subject to stream bank erosion.

Where a watercourse is not contained within a clearly visible valley section, valleys are considered to be not apparent (unconfined).



## Defining the Regulated Area for Apparent Valleys (Confined Systems)

Where valley slopes are not over-steepened and toe erosion is not a concern, the Regulated Area includes the river or stream valley extending to the top of slope and an allowance of 15 metres from the top of slope (see [Figure 4-8](#)).

Where the valley slopes in apparent valleys have a slope inclination of 3 (horizontal): 1 (vertical) or steeper, the limit of the Regulated Area includes three components: the Stable Slope Allowance, the Toe Erosion Allowance (if applicable), plus an allowance of 15 metres (see [Figure 4-9](#) and [Figure 4-10](#)). The Toe erosion allowance is included where active toe erosion is occurring or where a watercourse is located within 15 metres of a valley slope.

An exception to the above stable slope profile may occur in specific area(s) of the SVCA watershed where a geotechnical assessment (reviewed and approved by SVCA) determines that a different stable slope profile is appropriate. This geotechnical assessment may be conducted on either a site-specific basis, or on a larger slope or valley system basis.

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### Stable Slope Profile in Kincardine

A geotechnical assessment was completed for the geographic Town of Kincardine and that study concluded an alternative appropriate Stable Slope Allowance. Where this slope stability study applies, the Stable Slope Allowance is calculated using a 2.25:1 slope gradient, plus  $\frac{1}{2}$  the height of the bank offset, measured from the toe of slope horizontally inland of the valley slope.

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### Erosion Access Allowance

River or stream valley allowances allow SVCA to regulate development adjacent to erosion and flooding hazards in a manner that provides protection against unforeseen or predicted external conditions that could have an adverse effect on the natural conditions or processes of the river or stream valley.

Development and interference activities within the allowance must be regulated to ensure that existing erosion and flooding hazards are not aggravated, that new hazards are not created, and to ensure that public safety will not be negatively affected.

Provincial guidelines recommend a minimum 6-metre access allowance as part of defining the erosion hazard limit associated with river and stream valley systems (sections 3.0 and 3.4, Erosion Access Allowance, Technical Guide – River and Stream Systems: Erosion Hazard Limit (MNR, 2002b)).

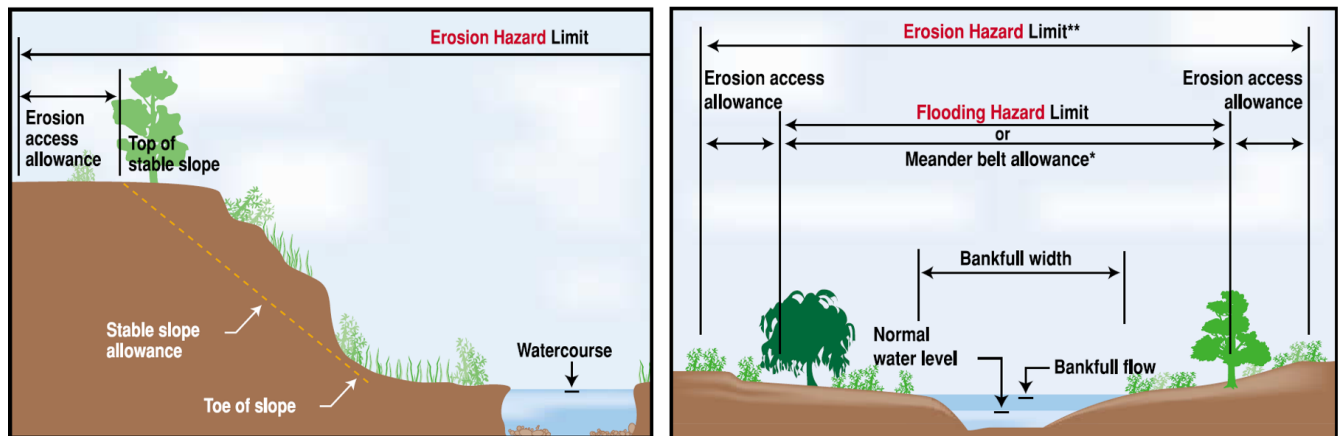
Three main principles support the inclusion of the erosion access allowance:

1. Providing for emergency access to erosion prone areas,
2. Providing for construction access for regular maintenance and access to the site in the event of an erosion event or failure of a structure, and
3. Providing protection against unforeseen or predicted external conditions which could have an adverse effect on the natural conditions.

As a result, a provision for a 6-metre access allowance shall be considered for development within the Regulated Area. SVCA may determine that a reduced access allowance is appropriate where the existing development already encroaches within the recommended 6-metre setback, and where



further development will not aggravate the erosion or flooding hazard.



**Figure 4-7 Illustrating the erosion access allowance for confined systems (left), and unconfined systems (right).**

### Technical Analysis for Riverine Erosion Hazards

Frequently technical analysis is required to determine the appropriate toe erosion, slope stability, and meander belt allowances. Technical studies should be carried out by a qualified professional engineer, with recognized expertise in the appropriate discipline, and should be prepared using established procedures and recognized methodologies to the satisfaction of SVCA.

With respect to riverine erosion hazards, technical studies should be in keeping with the Technical Guide – River and Stream Systems: Erosion Hazard Limit, (MNR, 2002b) and must demonstrate that there is no increased risk to life or property. The Technical Guide provides four methods of determining the toe erosion allowance. The Technical Guide also states that toe erosion rates are best determined through long-term measurements and that a minimum of 25 years of data is recommended for erosion assessment rates. (See sections 3.0, 3.1, 4.1, and 4.3 of the Technical Guide for more information).

It is essential that qualified professionals properly characterize the watercourse in question to identify what processes are occurring. For channels where processes indicative of instability, such as downcutting, are identified, very detailed fluvial geomorphic analyses would likely be required to predict erosion rates. As well, watercourses in catchments experiencing rapid land use change where the sediment and hydrologic regimes are changing could be experiencing erosion rates that are shifting in response, and that rate of change may not be quantifiable without significant detailed analysis.

The Technical Guide provides important information respecting slope stability analysis. Slope stability analysis shall be undertaken in accordance with [Appendix E: Geotechnical Principles for Stable Slopes](#).

### 4.8.2 Riverine Erosion Hazard for Apparent Valleys (Confined Systems) with Stable Slopes

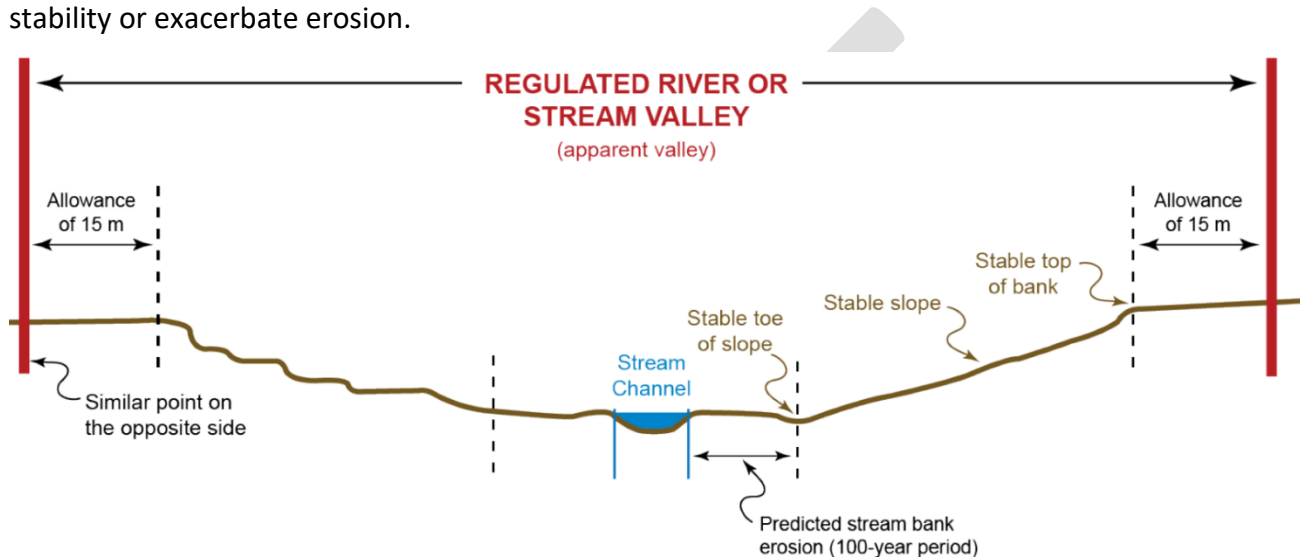
Valley slopes that are less steep than 3 (horizontal): 1 (vertical) are considered stable. Steeper slope profiles can also be considered stable where a geotechnical assessment<sup>7</sup> (reviewed and approved by

<sup>7</sup> Slope stability analysis shall be undertaken in accordance with Appendix E: Geotechnical Principles for Stable Slopes, Terraprobe Limited for Ontario Ministry of Natural Resources, 1994

SVCA) determines that a different stable slope profile is appropriate. This geotechnical assessment may be conducted on either a site-specific basis, or on a larger slope or valley system basis.

While stable slopes do not pose an immediate erosion hazard, development should be directed away if possible because the long-term stability of the slope, and therefore public health and safety, cannot be guaranteed. Over time, meandering watercourses can de-stabilize otherwise stable slopes, and poorly engineered development and interference activities can create hazards where they otherwise do not exist.

Likewise, activities should be set back from the top of valley slopes far enough to avoid increases in loading forces on the top of the slope or changes in drainage patterns that would compromise slope stability or exacerbate erosion.



**Figure 4-8 Apparent River or Stream Valley where Valley Slopes are Stable**

#### **4.8.2.1 Stable Valley Slopes – Permitted**

Development and interference activities will be permitted on stable slopes of an apparent river or stream valley, including over-steepened slopes where technical assessment or studies demonstrate that lands are not subject to an erosion or flooding hazard, if it has been demonstrated to the satisfaction of SVCA that:

- alternative locations have been considered for the development and interference activities outside of the apparent river or stream valley,
- the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- there is no impact on existing and future slope stability,
- streambank stabilization or erosion protection works are not required,
- development will have no negative impacts on natural stream meandering/fluvial processes,
- structural development would not be susceptible to stream erosion,

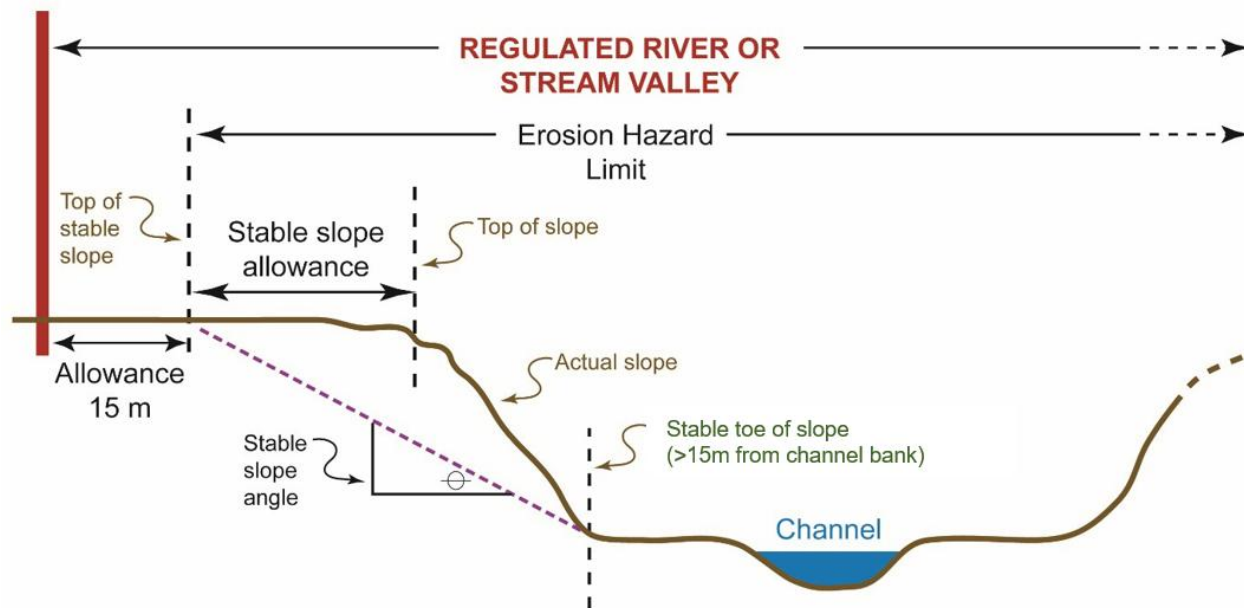
- h. development will not prevent access into and through the valley to undertake preventative actions /maintenance or during an emergency,
- i. access through an erosion susceptible area is not required, and
- j. the potential for surficial erosion has been addressed through the submission of proper drainage, erosion and sediment control and site stabilization/restoration plans.

#### 4.8.3 Riverine Erosion Hazard for Apparent Valleys (Confined Systems) with Over-steepened Slopes

On over-steepened slopes where the toe of the slope is stable and located more than 15 metres from a watercourse, the Riverine Erosion Hazard is defined using a Stable Slope Angle. The standard Stable Slope Angle is 18 degrees / 33.3 percent / 3 (horizontal): 1 (vertical), or where determined otherwise from a geotechnical study or engineering assessment<sup>8</sup>.

The Stable Slope Allowance is the distance between the existing valley top of slope and the point at which a stable slope gradient, rising from the same toe position, intersects the ground surface and includes an appropriate factor of safety. This is the distance required for the slope to reach a stable slope inclination. Therefore, setbacks from both the top of slope and bottom of slope are required to address the slumping hazard on over-steepened slopes with new development.

Figure 4-9 shows the components used to establish the Regulated Area with over-steepened slopes, no active toe erosion, and the toe of the valley slope is located more than 15 metres from a watercourse.

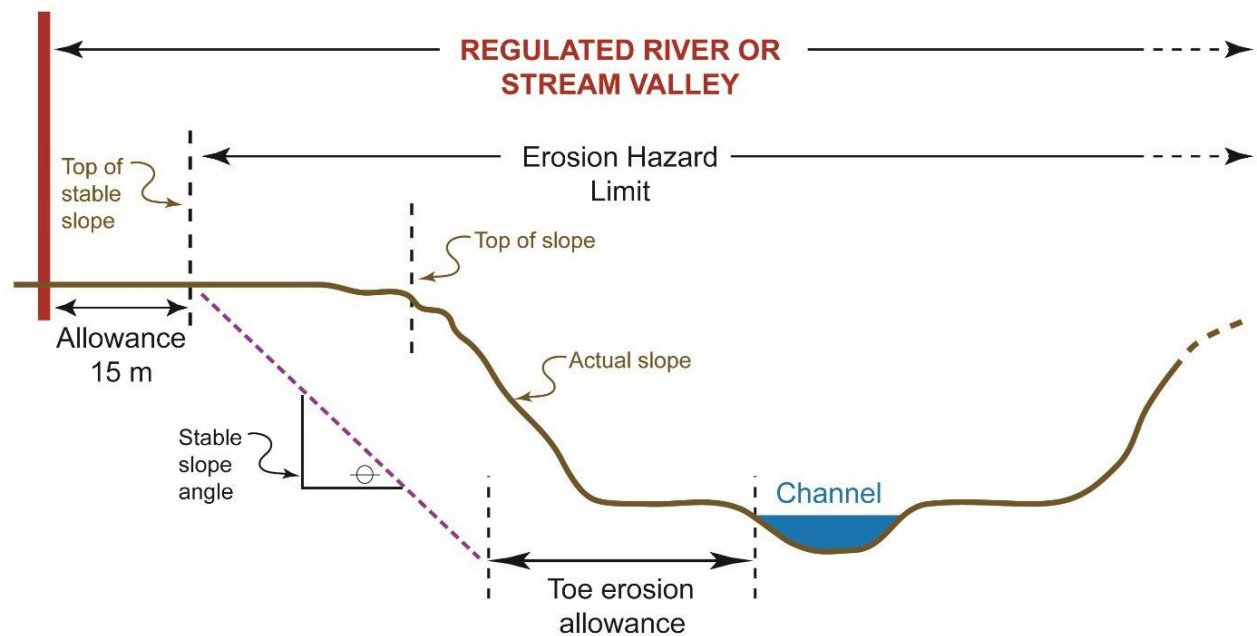


**Figure 4-9 Regulated Area and Erosion Hazard Limit for Apparent Over-steepened Valleys without Toe Erosion and with Toe of Valley Slope more than 15 metres from Watercourse**

A Toe Erosion Allowance is added into the Riverine Erosion Hazard where valley slopes are located 15 metres or less from a watercourse (Figure 4-10). The standard Toe Erosion Allowance is 15 metres from the watercourse bank. Site specific investigations by SVCA staff or a qualified engineer may

<sup>8</sup> Slope stability analysis shall be undertaken in accordance with Appendix E: Geotechnical Principles for Stable Slopes.

determine that the allowance should be larger or smaller based on factors such as active toe erosion, the width of the watercourse channel, the soil type, and the annual recession rate, in accordance with the MNR Technical Guide for River and Stream Systems. These considerations will also apply where the toe of slope is more than 15 metres from the watercourse but, despite the distance from the watercourse, active toe erosion is occurring.



**Figure 4-10 Regulated Area and Erosion Hazard Limit for Apparent Valleys with Over-steepened Slopes where Toe of Slope is less than 15 metres from the Watercourse**

**4.8.3.1 Erosion Hazard Limit of an Apparent River or Stream Valley - Not Permitted**

In general, development and interference activities will not be permitted within the erosion hazard limit of an apparent river or stream valley.

**4.8.3.2 Erosion Hazard Limit of an Apparent River or Stream Valley – Permitted**

Notwithstanding the policies referenced above, the following development and interference activities will be permitted within the erosion hazard limit of an apparent river or stream valley:

Permitted Activities / Uses	Conditions
Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines.  Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).  Stream bank, slope and valley	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> </ul>

Permitted Activities / Uses	Conditions
<p>stabilization work to protect existing development.</p> <p>Conservation or restoration projects.</p> <p>Removal or placement of fill and site grading.</p> <p>Recreational infrastructure which by its nature must locate in river valleys such as fencing, stairways, and access points, and other recreational uses deemed appropriate by the SVCA.</p>	<p>c. the activity cannot be relocated to an area outside the hazard.</p> <p>Addressing these conditions may require a site-specific geotechnical or engineering assessment based on established provincial guidelines and appropriate factor of safety to demonstrate that:</p> <ul style="list-style-type: none"> <li>a. there is no impact on existing and future slope stability,</li> <li>b. the risk of creating new Riverine Erosion Hazards or aggravating existing Riverine Erosion Hazards is minimized through site and infrastructure design and appropriate remedial measures,</li> <li>c. facilities are designed and constructed to minimize the risk of structural failure and/or property damage,</li> <li>d. the potential for surficial erosion is addressed by a drainage plan, and</li> <li>e. where unavoidable, intrusions on hydrologic functions are minimized and it can be demonstrated that best management practices including site and infrastructure design, and appropriate remedial measures will adequately restore functions.</li> </ul>
<p>Development associated with the construction of a driveway or similar to provide access to lands outside of the apparent river or stream valley</p>	<p>Ontario Regulation 41/24 indicates that: the maintenance or repair of a driveway or private lane that is outside of a wetland or the maintenance or repair of a public road, provided that the driveway or road is not extended or widened and the elevation, bedding materials and existing culverts are not altered does not require an SVCA permit. For other laneway works, submitted plans shall demonstrate to the satisfaction of SVCA that:</p> <ul style="list-style-type: none"> <li>a. there is no viable alternative outside of the regulated area; and</li> <li>b. the provision of safe access (<a href="#">Section 3.6.1.9</a>) has been met.</li> </ul>
<p>Development associated with existing uses (e.g., non-habitable accessory buildings, pools, stairs, landscape retaining walls, grading, decks)</p>	<p>If it has been demonstrated to the satisfaction of SVCA that:</p> <ul style="list-style-type: none"> <li>a. there is no feasible alternative site outside of the apparent river or stream valley or in the event that there is no feasible alternative site, that the proposed development is located in an area that will not affect flood control, erosion, or public safety,</li> </ul>

Permitted Activities / Uses	Conditions
	<ul style="list-style-type: none"> <li>b. no development is located on an unstable slope,</li> <li>c. there is no impact on existing and future slope stability,</li> <li>d. bank stabilization or erosion protection works are not required,</li> <li>e. development will have no negative impacts on natural stream meandering/fluvial processes,</li> <li>f. structural development would not be susceptible to stream erosion,</li> <li>g. development will not prevent access into and through the valley to undertake preventative actions /maintenance or repairs,</li> <li>h. the potential for surficial erosion has been addressed through the submission of proper drainage, erosion and sediment control and site stabilization/restoration plans, and</li> <li>i. natural features and/or ecological functions are protected, and flooding hazards have been adequately addressed.</li> </ul>
<u>The like-for-like Re</u> construction or relocation of a building that has not been damaged or destroyed by erosion	<p>The submitted plans should demonstrate that the building:</p> <ul style="list-style-type: none"> <li>a. cannot be relocated to an area outside the erosion hazard and that there is no feasible alternative site, that it is located in an area of least (and acceptable) risk,</li> <li>b. will be protected from erosion through the incorporation of appropriate building design parameters, and</li> <li>c. will not exceed original habitable floor area nor the original footprint of the previous structure.</li> </ul>
Replacement of on-site sewage disposal systems	The replacement system should be located outside of the erosion hazard where possible and only permitted within the erosion hazard subject to being located in the area of lowest risk.

#### 4.8.3.3 Erosion Hazard of an Apparent River or Stream Valley – Other Slope Hazards

In the SVCA watershed some post glacial re-entrant river valley and shoreline slopes no longer interact with the current watercourse or shoreline location. Although they are not at risk from riverine or shoreline erosion processes, these slopes can pose an erosion risk where they are over-steepened and potentially unstable. Similar to the erosion hazard illustrated in [Figure 4-9](#), the erosion hazard for



other slope hazards is defined using a Stable Slope Angle. The Stable Slope Angle is 18 degrees / 33.3 percent / 3 (horizontal): 1 (vertical), or where determined otherwise from a geotechnical study or engineering assessment<sup>9</sup>.

The Stable Slope Allowance is the distance between the existing valley top of slope and the point at which a stable slope gradient, rising from the same toe position, intersects the ground surface and includes an appropriate factor of safety. This is the distance required for the slope to reach a stable slope inclination. Setbacks from both the top of slope and bottom of slope are required to address the slumping hazard on over-steepened slopes with new development.

Development and interference activities within and adjacent to other slope hazards have the same permitted activities / uses and conditions as listed in [Section 4.8.3.1](#) and [Section 4.8.3.2](#).

Where technical assessment or studies demonstrate that lands within the other slope hazard are not subject to an erosion or flooding hazard, [Section 4.8.2.1](#) applies.

#### **4.8.3.4 Allowance Adjacent to the Erosion Hazard of an Apparent River or Stream Valley – Permitted**

Development and interference activities will be permitted within the allowance adjacent to the erosion hazard of an apparent river or stream valley if it has been demonstrated to the satisfaction of the SVCA that the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock and the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property. The submitted plans must demonstrate to the satisfaction of SVCA that:

- a. activities will not create or aggravate an erosion hazard,
- b. activities are set back a sufficient distance from the stable top of bank to avoid increases in loading forces on the top of the slope,
- c. activities will not prevent access to repair the top of the valley slope, which typically requires a 6-metre access allowance from the top of stable slope unless determined to the satisfaction of SVCA that a reduced erosion access allowance is appropriate, and
- d. the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control, and site stabilization/restoration plans.

#### **4.8.4 Riverine Erosion Hazard for Unconfined Systems (Meander Belt)**

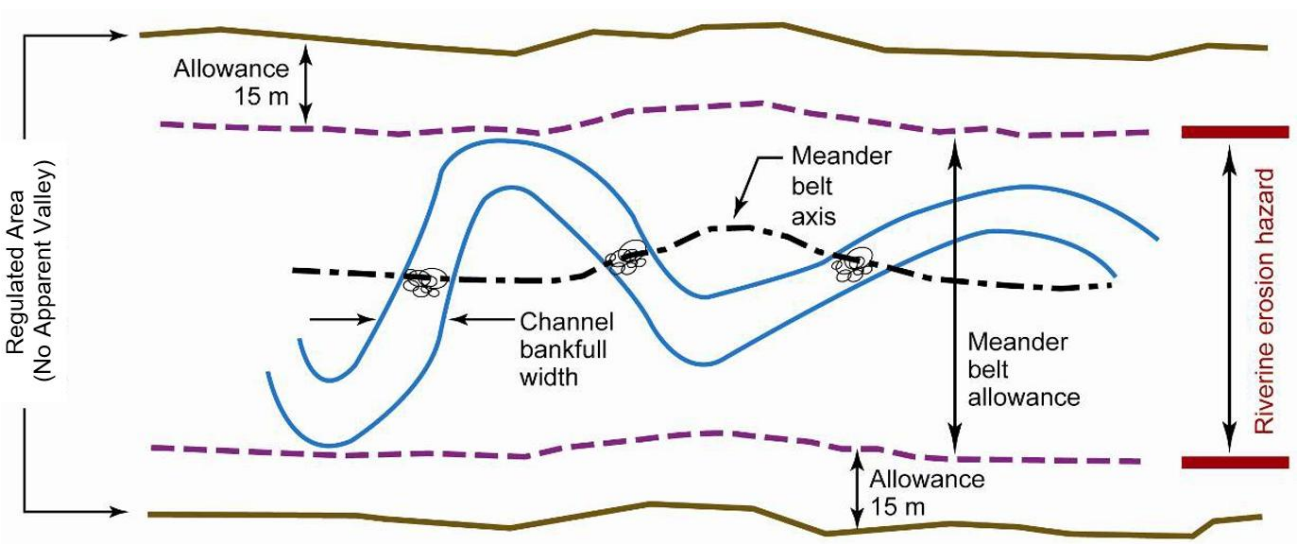
Where there is no apparent valley associated with a watercourse, the system is considered unconfined, and the channel is free to shift or meander. Although toe erosion and slope stability are not potential hazards in unconfined systems, consideration is necessary for the meandering tendencies of the system. In unconfined systems, the Regulated Area is the greater of the extent of the Riverine Flooding Hazard plus the prescribed allowance or the Meander Belt Allowance plus an allowance of 15 metres.

The Meander Belt Allowance provides a limit to development within the areas where the river system is likely to shift. This allowance is based on twenty (20) times the bankfull channel width, where the bankfull channel width is measured at the widest riffle section of the reach. A riffle is a section of

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<sup>9</sup> Slope stability analysis shall be undertaken in accordance with Appendix E: Geotechnical Principles for Stable Slopes, Terraprobe Limited for Ontario Ministry of Natural Resources, 1994

shallow rapids where the water surface is broken by small waves. The meander belt axis is centered over the channel – the schematic below (Figure 4-11) provides additional detail:



**Figure 4-11 Riverine Erosion Hazard (Meander Belt Allowance) and Regulated Area – Unconfined Systems**

More details and examples for calculating the meander belt allowance are provided in sections 3.0, 3.3 and 4.4 of the MNR Technical Guide – River and Stream Systems: Erosion Hazard Limit and the supporting documentation entitled TRCA Belt Width Delineation Procedures (Parish, 2004). Site-specific technical investigations are required to consider deviance from the standard use of 20 times the bankfull channel width to determine the meander belt allowance. The determination of the appropriate meander belt allowance usually involves a wide range of study areas such as geomorphology, engineering, ecology and biology. The existing and the ultimate configuration of the channel in the future must be considered. Due to the challenges in assessing meander belt widths, more than one method of determining the meander belt width may be required for any given application.

**4.8.4.1 Riverine Erosion Hazard Limit for Unconfined Systems – Not Permitted**

In general, development and interference activities will not be permitted within the erosion hazard limit (meander belt allowance) of unconfined riverine systems.

**4.8.4.2 Riverine Erosion Hazard Limit for Unconfined Systems – Permitted**

Notwithstanding the policies referenced above, the following development and interference activities will be permitted within the erosion hazard limit (meander belt allowance) of unconfined riverine systems:

Permitted Activities / Uses	Conditions
Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems). Removal or placement of fill and	If it has been demonstrated to the satisfaction of the SVCA that: <div>             a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,           </div>



Permitted Activities / Uses	Conditions
<p>site grading.</p> <p>Recreational infrastructure which by its nature must locate in riverine areas such as fencing, stairways, and access points, and other recreational uses deemed appropriate by the SVCA.</p>	<ul style="list-style-type: none"> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> <li>c. development will not prevent access into and through the riverine erosion hazard in order to undertake preventative actions /maintenance or repairs</li> <li>d. bank stabilization or erosion protection works are not required,</li> <li>e. the potential for surficial erosion has been addressed through the submission of proper drainage, erosion and sediment control and site stabilization/restoration plans, and</li> <li>f. the activity cannot be relocated to an area outside the hazard.</li> </ul> <p>Addressing these conditions may require a site-specific technical assessment based on established provincial guidelines to demonstrate that:</p> <ul style="list-style-type: none"> <li>a. activities will have no negative impacts on natural stream meandering/fluvial processes,</li> <li>b. structural development would not be susceptible to stream erosion,</li> <li>c. the risk of creating new or aggravating existing riverine erosion hazards are minimized through site and infrastructure design and appropriate remedial measures, and</li> <li>d. facilities are designed and constructed to minimize the risk of structural failure and/or property damage.</li> </ul>
<p>Streambank stabilization activities to protect existing development.</p> <p>Conservation or restoration projects.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock, and</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.</li> </ul> <p>Addressing these conditions may require a site-specific</p>

Permitted Activities / Uses	Conditions
	<p>technical assessment based on established provincial guidelines to:</p> <ol style="list-style-type: none"> <li>demonstrate that the protection has been designed to adequately address the erosion hazard,</li> <li>demonstrate the protection will not create new or aggravate existing erosion hazards, and</li> <li>outline the anticipated lifespan and maintenance requirements of the protection.</li> </ol>
Development associated with the construction of a driveway or similar to provide access to lands outside of the riverine erosion hazard	<p>Ontario Regulation 41/24 indicates that: the maintenance or repair of a driveway or private lane that is outside of a wetland or the maintenance or repair of a public road, provided that the driveway or road is not extended or widened and the elevation, bedding materials and existing culverts are not altered does not require an SVCA permit. For other laneway works, submitted plans shall demonstrate to the satisfaction of SVCA that:</p> <ol style="list-style-type: none"> <li>there is no viable alternative outside of the regulated area, and</li> <li>the provision of safe access (<a href="#">Section 3.6.1.9</a>) has been met.</li> </ol>
Development activities associated with existing uses (e.g., non-habitable accessory buildings, pools, landscape retaining walls, grading, decks, etc.)	<p>If it has been demonstrated to the satisfaction of SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property.,</li> <li>there is no feasible alternative site outside of the riverine erosion hazard,</li> <li>the activity is located in an area of least (and acceptable) risk,</li> <li>the activity will not prevent access into and through the riverine erosion hazard in order to undertake preventative actions/maintenance or during an emergency,</li> <li>bank stabilization or erosion protection works are not required, and</li> <li>the potential for surficial erosion has been addressed</li> </ol>

Permitted Activities / Uses	Conditions
	<p>through the submission of proper drainage, erosion and sediment control and site stabilization/restoration plans.</p> <p>Addressing these conditions may require a site-specific technical assessment based on established provincial guidelines to demonstrate that:</p> <ol style="list-style-type: none"> <li>the activity will have no negative impacts on natural stream meandering/fluvial processes, and</li> <li>accessory buildings would not be susceptible to stream erosion within the 100-year planning horizon.</li> </ol>
<p><u>The like-for-like</u> reconstruction or relocation of a building that has not been damaged or destroyed by erosion</p>	<p>The submitted plans shall demonstrate to the satisfaction of SVCA that the building:</p> <ol style="list-style-type: none"> <li>cannot be relocated to an area outside the erosion hazard,</li> <li>is located in an area of least (and acceptable) risk,</li> <li>will not exceed original habitable floor area nor the original footprint of the previous structure, and</li> <li>will be protected from erosion through the incorporation of appropriate design parameters.</li> </ol> <p>Addressing these conditions may require a site-specific technical assessment based on established provincial guidelines to:</p> <ol style="list-style-type: none"> <li>demonstrate that erosion protection measures have been designed to adequately address the erosion hazard,</li> <li>demonstrate the erosion protection measures will not create new or aggravate existing erosion hazards, and</li> <li>outline the anticipated lifespan and maintenance requirements of the erosion protection measures.</li> </ol>
<p>Replacement of on-site sewage disposal systems</p>	<p>The replacement system should be located outside of the erosion hazard and shall only be permitted within the erosion hazard where in the opinion of SVCA, it would be located in the area of lowest (and acceptable) risk.</p>

#### 4.8.4.3 Allowance Adjacent to the Riverine Erosion Hazard Limit for Unconfined Systems

Development and interference activities will be permitted within the allowance adjacent to the riverine erosion hazard limit for unconfined systems (meander belt) if it has been demonstrated to the

satisfaction of the SVCA that the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock and the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property. The submitted plans must demonstrate to the satisfaction of SVCA that:

- a. activities will not create or aggravate an erosion hazard,
- b. activities will not prevent access to and along the meander belt for maintenance or repair, which typically requires a 6-metre access allowance from the outer limit of the meander belt or floodplain, whichever is greater, unless determined to the satisfaction of SVCA that a reduced erosion access allowance is appropriate,
- c. the potential for surficial erosion has been addressed through proper drainage, erosion and sediment control, and site stabilization/restoration plans, and
- d. flooding hazards have been adequately addressed.

## 4.9 Wetlands and “Other Areas”

SVCA’s authority to regulate wetlands and their “other areas” comes from the CA Act and O. Reg. 41/24. Under the CA Act:

**28 (1)** No person shall carry on the following activities, or permit another person to carry on the following activities, in the area of jurisdiction of an authority:

1. **Activities** to straighten, change, divert or interfere in any way with the existing channel of a river, creek, stream or watercourse or to **change or interfere in any way with a wetland**.
2. Development activities in areas that are within the authority’s area of jurisdiction and are, ...
  - ii. **wetlands**, ..., or
  - v. **other areas** in which development should be prohibited or regulated, as may be determined by the regulations. 2017, c. 23, Sched. 4, s. 25.

**28.1 (1)** An Authority may issue a permit to a person to engage in an activity specified in the permit that would otherwise be prohibited by section 28, if, in the opinion of the authority,

- (a) the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock; and
- (b) the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property; ...

The tests in clauses (a) and (b) apply to:

- activities to change or interfere in any way with a wetland, and
- development activities in the wetland and its other areas.

The tests will be used by SVCA staff in the review of a permit for both of these regulated areas and types of activities.

### 4.9.1 Wetland Definitions

Ontario Regulation 41/24 defines a “wetland” as land that:

- (a) is seasonally or permanently covered by shallow water or has a water table close to or at the surface,
- (b) contributes directly to the hydrological function of a watershed through connection with a surface watercourse<sup>10</sup>,
- (c) has hydric soils, the formation of which have been caused by the presence of abundant water, and
- (d) has vegetation dominated by hydrophytic (water tolerant) plants, the dominance of which has been favoured by the presence of abundant water.

The definition of “wetland” does not include periodically soaked or wet land used for agricultural purposes which no longer exhibits a wetland characteristic referred to in clause (c) or (d) of that definition.

Ontario Regulation 41/24 defines “other areas” as being “within 30 metres of a wetland”. These are areas where development and interference activities may interfere with the natural features or hydrologic function of a wetland or watercourse.

“Interference in any way” is interpreted as any anthropogenic act or instance which hinders, disrupts, degrades or impedes in any way the natural features or hydrologic functions of a wetland or watercourse (Conservation Ontario, 2008).

“Natural features” include vegetation as outlined in the definition of a wetland “...(d) has vegetation dominated by hydrophytic plants or water tolerant plants, the dominance of which has been favoured by the presence of abundant water, ...”.

### Wetland Functions

Wetlands are important natural features on the landscape, whether they are permanently or seasonally wet. Wetlands perform many important hydrologic functions. Wetlands moderate water flow by absorbing much of the surface water runoff from the land and then slowly releasing it into watercourses or the water table. This helps to reduce flooding and to sustain stream flows during dry spells. Many wetland areas recharge groundwater by moving surface water into the groundwater system. As a result, they play an important role in protecting and improving water quality, provide for fish and wildlife habitat and offer a number of associated recreational opportunities. The lands that surround wetland areas are important in sustaining their vital hydrological and ecological functions.

“Hydrologic function” is defined in the Provincial Planning Statement (2024) as the functions of the hydrological cycle that include the occurrence, circulation, distribution and chemical and physical properties of water on the surface of the land, in the soil and underlying rocks, and in the atmosphere, and water’s interaction with the environment including its relation to living things. This is a comprehensive definition for the hydrologic cycle, which allows many factors to be considered when reviewing interference to

<sup>10</sup> Note that all wetlands are deemed to directly contribute to the hydrological function of a watershed. Where a surface connection between a wetland and a watercourse is not apparent, it is assumed a groundwater connection exists between them, unless there is information to the contrary as per the MNR and Conservation Ontario “Guidelines for Creating Scheduled Areas” (2005)

## 4.9.2 Regulating Wetlands and their Other Areas

There are three ways in which the CA Act and O. Reg. 41/24 addresses wetlands:

1. Development activities within the wetland boundary (section 28 (1) 2. ii. of the CA Act).
2. Development activities within “other areas”, being 30 metres from the wetland (section 28 (1) 2. v. of the CA Act).

To be regulated in these first two instances, the activities must meet the definition of development activity.

3. Activities to change or interfere in any way with a wetland (section 28 (1) 1. of the CA Act).

In this third instance, the activities must constitute a change or interference in any way with the wetland and to be regulated, the ‘activity’ should occur within the wetland boundary. Activities proposed within the wetland boundary that could interfere in any way with the wetland, including both those activities that meet the definition of “development activity” and those that do not necessarily meet the definition of “development activity”. An example of an activity that does not strictly meet the definition of “development activity” and could represent “change or interference” is the removal of hydrophytic or water tolerant plants in the wetland. Applications that include change or interference may be assessed with respect to the natural features (e.g., hydrophytic plants) and hydrologic functions etc.

Given the proximity of the ‘other areas’ to a wetland is only 30 metres, development activities in these areas may interfere with the adjacent wetland, subject to the scale of the proposed activities in this area. Applications for development interference activities must be assessed using the components of the definition of a wetland in O. Reg. 41/24 e.g., the effect a permit application may have on the hydrology, hydrologic functions maintaining the wetland, effect on hydrophytic plants, hydric soils etc.

To receive a permit for activities associated with wetlands, it must be demonstrated in an application that interference on all components of the definition of a wetland as noted above, are not likely to be affected by any activities of the application (site preparation, during construction and long term).

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### **Environmental Impact Studies**

~~As part of the review of an application, SVCA may request a scoped Environmental Impact Study (EIS) to address potential impacts to a wetland. An EIS is a mechanism for assessing impacts to determine the suitability of a proposal and the minimum buffer from development to ensure no negative impact on the wetland. The submission of an EIS does not guarantee approval of the works. An EIS must be carried out by a qualified professional, with recognized expertise in the appropriate area of concern and shall be prepared using established procedures and recognized methodologies to the satisfaction of the SVCA.~~

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Portions of wetlands may also be regulated due to presence of hazardous lands such as regulated floodplains or unstable soils. The applicable policies should be referenced with respect to these hazards. Where policies overlap, the more restrictive policy applies.

Removal, filling, dredging, or changing the hydrologic regime of wetlands (e.g. ponds or drains) can result in reducing the capacity of wetlands to retain water. This can result in higher flows in watercourses with resulting increases in flooding and erosion. As well, with no ability to retain water, the ability to recharge the aquifer is reduced, and the hydrologic cycle is modified.

Impacts to the components of a wetland e.g., hydrologic function of a wetland due to development within the “other areas”, may also result from changes in imperviousness/infiltration due to a removal or change in vegetation, soil compaction during construction, disruption, or alteration of groundwater flow paths due to underground construction, etc.

#### **4.9.3 Technical Analysis**

The definition of a wetland contains multiple components. Any activity that affects one or more components of the definition may be considered change or interference. In many circumstances the activity will also meet the definition of a development activity.

SVCA’s assessment of an application may consider, depending upon the scope of the proposal, the following direct or indirect effects for activities that may change or interfere with the wetland:

- changes to the hydrologic function e.g., quantity or depth of water based on the existing hydrology and hydroperiod, retention of water; water regime maintaining the wetland (e.g., surface or groundwater, water balance, recharge and/or discharge),
- water quality during or after the activity will not result in filling the wetland or “other areas” with sediment etc. or affect the hydrophytic vegetation,
- impacts to the hydroperiod (seasonally),
- impact to the hydric soils or vegetation (e.g., removal),
- the potential for damage to a wetland or a watercourse associated with the wetland on an adjacent property, and
- other criteria identified by the SVCA.

As part of the review of a permit application, SVCA may request studies that address all components of the wetland definition as well as the CA Act and O. Reg. 41/24 requirements related to change or interference with a wetland. Studies are a mechanism for assessing impacts and to determine the suitability of a proposal. The submission of a technical study does not guarantee approval of the works. The study must be carried out by a qualified professional, with recognized expertise in the appropriate area of concern and shall be prepared using established procedures and recognized methodologies to the satisfaction of SVCA. SVCA staff will work with applicants to determine the type (e.g., hydrology, hydrogeology, water balance, etc.), and scope of study necessary to contribute to a complete permit application for their specific proposal.

#### **4.9.4 Wetland Policies**

The following sections outline the policies for implementing the CA Act and O. Reg. 41/24 requirements with respect to wetlands and areas within 30 metres of wetlands.

##### **4.9.4.1 Development and Interference within Wetlands – Not Permitted**

In general, the following are not permitted within wetlands:

- a. development and interference activities,



- b. ponds and drains, and
- c. stormwater management facilities.

#### 4.9.4.2 Development and Interference within Wetlands – Permitted

Notwithstanding Section 4.9.4.1, the following development and interference activities will be permitted within wetlands:

Permitted Activities / Uses	Conditions
<p>Public infrastructure including but not limited to roads, sanitary sewers, flood and erosion control works, and various utilities (e.g., pipelines), but not including drains or stormwater management facilities.</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Conservation or restoration projects.</p> <p>Trails or access lanes.</p>	<p>Subject to the <del>proposal</del> <u>applicant providing complete studies and plans as required that demonstrate being approved through a satisfactory EA approval process, and if it has been demonstrated</u> to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. there is no feasible alternative site outside the wetland,</li> <li>b. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>c. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>d. <del>there will be no</del> <u>the</u> impact on the <u>hydrophytic vegetation and</u> hydrologic functions <u>etc.</u> of the wetland <del>or the impacts</del> are deemed acceptable by SVCA.</li> </ul>

#### 4.9.4.3 Area Within 30 Metres of a Wetland Boundary – Not Permitted

In general, development and interference activities are not permitted within 30 metres of the boundary of a wetland.

#### 4.9.4.4 Area Within 30 Metres of the Boundary of a Wetland – Permitted

Notwithstanding Section 4.9.4.3, the following development and interference activities will be permitted:

Permitted Activities / Uses	Conditions
<p>Public infrastructure including but not limited to roads, sanitary sewers, water supply wells, well houses, and various utilities (e.g., pipelines).</p> <p>Development associated with public</p>	<p><u>Subject to the applicant providing complete studies and plans as required that demonstrate if it has been demonstrated</u> to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> </ul>



Permitted Activities / Uses	Conditions
<p>parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Conservation or restoration projects.</p> <p>Systematic agricultural tile drainage.</p>	<p>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</p> <p>c. <del>there will be no impact on the</del> <u>impact on the hydrophytic vegetation and</u> hydrologic functions <u>etc.</u> of the wetland <del>or the impacts</del> are deemed acceptable by SVCA, <u>and</u></p> <p>d. <u>in the case of systematic agricultural tile drainage,</u> all proposed perforated tile will maintain a distance from the wetland boundary that is equal to or greater than half of the tile spacing, or as otherwise directed from SVCA</p>
<p>Buildings or structures.</p> <p>Filling and/or grading.</p> <p>Sewage disposal systems.</p>	<p><u>Subject to the applicant providing complete studies and plans as required that demonstrate to the satisfaction of the SVCA that:</u> <del>If the interference on the hydrologic function of the wetland has been deemed to be acceptable by the SVCA. A scoped EIS to assess the hydrologic impact shall be required if the plans do not demonstrate the following:</del></p> <p>a. all development activities (including grading) are located outside the wetland and maintain as much setback as possible (7-10 metres recommended),</p> <p>b. disturbances to natural vegetation communities contributing to the hydrologic function of the wetland are avoided,</p> <p>c. overall drainage patterns for the lot will be maintained,</p> <p>d. disturbed area and soil compaction is minimized,</p> <p>e. development is above the high-water table, and</p> <p>f. sewage disposal systems are located a minimum of 15 metres from the wetland and a minimum of one metre above the water table.</p>

## 4.10 Hazardous Land – Unstable Soil or Bedrock

Hazardous land is defined by the *Conservation Authorities Act* as “land that could be unsafe for development because of naturally occurring processes associated with flooding, erosion, dynamic beaches or unstable soil or bedrock”. Where an activity is within unstable soil or unstable bedrock then this section applies, otherwise refer to the appropriate section(s) for other hazardous land such as flooding or erosion hazards.

Due to the specific nature of areas of unstable soil or unstable bedrock, it is difficult to identify these hazards. The potential for catastrophic failures in some areas of unstable soil and unstable bedrock warrant site specific studies to determine the extent of these hazardous lands, and therefore the appropriate limits of the hazard and regulation limits. The Regulated Area will be based on the conclusions and recommendations of such studies, to the satisfaction of SVCA.

Development within areas deemed as hazardous land is considered through the “development activity” provision of the CA Act and O. Reg. 41/24. Works proposed within unstable soil and unstable bedrock hazardous lands must therefore meet the definition of “development activity” in the *Conservation Authorities Act* to be regulated.

### Unstable Soil

Unstable soil includes but is not necessarily limited to areas identified as containing sensitive marine clays (e.g. leda clays) or organic soils (MNR et al, 2005).

Organic soils are normally formed by the decomposition of vegetative and organic materials into humus, a process known as humification. A soil is organic when the percentage weight loss of the soil, when heated, is five to eighty per cent (MNR, 2001). As a result, organic soils can cover a wide variety of soil types. Peat soils, however, are the most common type of organic soil in Ontario. Therefore, a CA’s wetland inventory may provide guidance in the location of organic soils. In addition, maps by the Geological Survey of Canada, MNR, Ministry of Northern Development & Mines, and the Ministry of Agriculture, Food and Rural Affairs may provide additional information on the location of organic soils.

Due to the high variability of organic soils, the potential risks and hazards associated with development in this type of hazardous land are also highly variable. As such, assessment of development potential in areas of organic soils is site specific. Section 4.0 of the Hazardous Sites Technical Guide (MNR 1996a) provides important guidance in this regard.

### Unstable Bedrock

Unstable bedrock includes, but is not necessarily limited to, areas identified as karst formations. Karst formations may be present in limestone or dolomite bedrock and are extremely variable in nature. Local, site-specific studies are required for identifying karst formations. Air photo interpretation of surface features such as sink holes may provide an indication of karst formations (MNR et al, 2005).

Any development within hazardous lands requires a permit from the SVCA.

### 4.10.1 Unstable Soils or Unstable Bedrock Policies

The following sections outline the policies for implementing the CA Act and O. Reg. 41/24 requirements with respect to unstable soils and unstable bedrock.

#### 4.10.1.1 Unstable Soils or Unstable Bedrock – Not Permitted

In general, development and interference activities will not be permitted on unstable soils or unstable

bedrock.

#### 4.10.1.2 Unstable Soils or Unstable Bedrock – Permitted

Notwithstanding the policies referenced above, the following development and interference activities will be permitted:

Permitted Activities / Uses	Conditions
<p>Public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply wells, well houses, and pipelines.</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p> <p>Conservation or restoration projects.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>the activity cannot be relocated to an area outside the hazard.</li> </ol>
<p><u>The like-for-like Re</u>reconstruction or relocation of a building that has not been damaged or destroyed by erosion</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>there is no feasible alternative site,</li> <li>it is located in an area of least (and acceptable) risk,</li> <li>it will not exceed original habitable floor area nor the original footprint of the previous building, and</li> <li>all hazards/risks associated with unstable soils or unstable bedrock have been adequately addressed.</li> </ol>

## 4.11 Activities to Straighten, Change, Divert or Interfere with a Watercourse

In accordance with sections 28(1) and 28.1 of the CA Act, activities to straighten, change, divert or interfere in any way with the existing channel of a river, creek, stream or watercourse are prohibited unless a permit is obtained from SVCA. To improve the readability of this manual, these types of activities will be referred to as “watercourse interference activities”.

Ontario Regulation 41/24 includes the following definition of a watercourse:

“watercourse” means a defined channel, having a bed and banks or sides, in which a flow of water regularly or continuously occurs.

At minimum, SVCA regulates lands within 15 metres of all watercourses. The regulated areas for the flooding and erosion hazards associated with watercourses are described elsewhere in Section 4 of this manual.

Typical projects that involve watercourse interference activities include, but are not limited to, culvert placement or replacement, bridge construction, bed level crossings, piping of watercourses, installation or maintenance of linear infrastructure crossings (pipelines, telecoms), construction or maintenance of by-pass ponds, straightening and diversions as well as any work on the bed or the banks of the watercourse such as tile outlets and bank protection projects.

The area along both sides of any river, creek, stream or watercourse, called the riparian zone, not only provides habitat for a wide range of flora and fauna, it also filters surface runoff before it reaches open waterways. As runoff passes through, the riparian zone retains excess nutrients, some pollutants and reduces the sediment flow. A healthy zone can also keep stream flow going during the dry seasons, by holding and releasing groundwater back into the watercourse. This interface between terrestrial and aquatic environments acts as a sponge for storing water, which in turn helps to reduce flooding and shelters the banks against shoreline erosion. Alterations to the channel of a watercourse can negatively impact the hydrologic and features and functions provided by riparian zones.

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### SVCA In-Water Works Timing Window

Any work within or below the bed or banks of a watercourse, regardless of whether there is flow, is subject to timing windows associated with erosion and sediment control. SVCA timing windows within which works may occur, with a permit, are June 15 to September 15 and during low flow conditions in the watercourse. If works are an emergency in nature, and site and weather conditions permit, works outside of these timing windows can be considered by SVCA on a case-by-case basis.

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### 4.11.1 Watercourse Policies

#### 4.11.1.1 Watercourse Interference – General – Not Permitted

In general, watercourse interference activities are not permitted.

#### 4.11.1.2 Watercourse Interference – General – Permitted

Notwithstanding the policies referenced above, the following will be permitted subject to timing window considerations:

Permitted Activities / Uses	Conditions
<p>Public infrastructure (e.g., roads, sewers, utilities, pipelines, flood and erosion control works, etc.).</p> <p>Development associated with public parks (e.g. passive or low intensity outdoor recreation and education, trail systems).</p>	<p>Subject to the activity being approved through a satisfactory EA process where applicable and if it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property, and</li> <li>the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA.</li> </ol>
<p>Stream bank and channel stabilization work to protect existing development.</p> <p>Minor interference (e.g., tile outlets, etc.).</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> <li>the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA, and</li> <li>the purpose of the work is not to facilitate development by reducing the hazard.</li> </ol>
<p>Any works located below the bed of a watercourse.</p>	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ol style="list-style-type: none"> <li>the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> </ol>

Permitted Activities / Uses	Conditions
	<ul style="list-style-type: none"> <li>c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA, and</li> <li>d. the work is located below the long-term scour depth to the satisfaction of SVCA.</li> </ul>
Bridges, culverts and other crossings.	<p>Subject to the activity being approved through a satisfactory EA process where applicable and if it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> <li>c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA.</li> </ul> <p>At a minimum, the submitted plans should demonstrate the following based on morphological characteristics of the watercourse system:</p> <ul style="list-style-type: none"> <li>a. culverts have an open bottom where it is feasible, or where it is not feasible, the culverts should be appropriately embedded into the watercourse</li> <li>b. crossing location, width, and alignment should be compatible with stream morphology, which typically requires location of the crossing on a straight and shallow/riffle reach of the watercourse with the crossing situated at right angles to the watercourse,</li> <li>c. the crossing is sized and located such that there is no increase in upstream or downstream erosion or flooding, and</li> <li>d. have regard for upstream and downstream effects when installing/ replacing a culvert.</li> </ul> <p>Note: culvert crossings for private driveways or lane entrances where the width of the travelled portion of the access exceeds 30 feet, may be subject to</p>

Permitted Activities / Uses	Conditions
	watercourse enclosure policies in <a href="#">Section 4.11.1.14</a> .
Conservation projects (e.g., stream rehabilitation works, small impoundments and realignments that restore or enhance watercourse morphology or aquatic health).	<p>If it has been demonstrated to the satisfaction of the SVCA that:</p> <ul style="list-style-type: none"> <li>a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,</li> <li>b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,</li> <li>c. the hydrologic and ecological benefits of the project are demonstrated to the satisfaction of the SVCA,</li> <li>d. streambank stability is enhanced,</li> <li>e. significant natural features and hydrologic functions are restored and enhanced using best management practices including site and/or infrastructure design and appropriate remedial measures,</li> <li>f. natural channel design principles are followed to the extent possible,</li> <li>g. maintenance requirements are minimized.</li> </ul>

#### **4.11.1.3 Watercourse Interference – Water Control Structures**

Water control structures to protect existing development or other uses deemed appropriate by the SVCA from the Riverine Flooding Hazard including dykes and berms, but excluding stormwater management facilities and dams, will be permitted to be constructed, maintained or repaired in accordance with the infrastructure policies outlined in [Section 4.11.1.2](#) and where it can be demonstrated that:

- a. all feasible alignments have been considered through an Environmental Assessment supported by the SVCA or other site-specific technical studies, whichever is applicable based on the scale and scope of the project,
- b. intrusions on hydrologic functions are minimized and it can be demonstrated that best management practices including site and infrastructure design, and appropriate remedial measures will adequately restore features and functions,
- c. the SVCA's timing window are accommodated, and
- d. the proposed works will not negatively impact surrounding landowners.

#### **4.11.1.4 Watercourse Interference – New Dams and Stormwater Management**



## Infrastructure

Dams which by their nature must be located within or directly adjacent to a river, stream, creek or watercourse, and stormwater management infrastructure that outlets to a watercourse, will be permitted in accordance with the infrastructure policies outlined in [Section 4.11.1.2](#) and where it can be demonstrated that:

- a. all feasible alternative sites and alignments have been considered through an Environmental Assessment supported by the SVCA or through site-specific studies, whichever is applicable based on the scale and scope of the project,
- b. the water management benefits of the dam or stormwater management facility are demonstrated to the satisfaction of the SVCA,
- c. sedimentation and erosion during construction and post construction are minimized using best management practices including site, landscape, infrastructure design, construction controls, and appropriate remedial measures,
- d. where unavoidable, intrusions on hydrologic features and functions are minimized, and it can be demonstrated that best management practices including site and infrastructure design and appropriate remedial measures will adequately restore features and functions,
- e. works are constructed according to accepted engineering principles and approved engineering standards or to the satisfaction of the SVCA, whichever is applicable based on the scale and scope of the project,
- f. the SVCA's timing window are accommodated, and
- g. the proposed works will not negatively impact surrounding landowners.

The Ministry of Natural Resources has a regulatory role to play with respect to dams and water control structures. Please contact MNR for more information on the Ministry's mandate and responsibilities as it pertains to dams.

### 4.11.1.5 Watercourse Interference – Maintenance, Repairs and Alterations to Dams

The maintenance, repair, and alteration<sup>11</sup> to existing dams will be permitted where it can be demonstrated to the satisfaction of SVCA that:

- a. sedimentation and erosion during construction and post construction are minimized using best management practices including site, landscape, infrastructure design, construction controls, and appropriate remedial measures,
- b. where unavoidable, intrusions on hydrologic features and functions are minimized, and it can be demonstrated that best management practices including site and infrastructure design and appropriate remedial measures will adequately restore features and functions,
- c. there are no adverse impacts on the capacity of the structure to pass flows,
- d. susceptibility to natural hazards is not increased or new hazards created,
- e. the integrity of the original structure is maintained or improved,

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<sup>11</sup> Maintenance, repair, and alteration to existing dams in watercourses that, in the opinion of the SVCA, would not affect the control of flooding, erosion, dynamic beach, and that would not result in changes in the capacity to pass river flows or impacts on integrity of the structure or in-water works do not require a permit.



- f. the maintenance, repair and alteration works are according to accepted engineering principles and approved engineering standards or to the satisfaction of the SVCA, whichever is applicable based on the scale and scope of the project,
- g. the SVCA's timing window are accommodated, and
- h. the proposed works will not negatively impact surrounding landowners.

#### **4.11.1.6 Watercourse Interference – Dam Decommissioning or Retirement**

The retirement of dams<sup>12</sup> or the removal of dams, located within a river, stream creek or watercourse will be permitted in accordance with the infrastructure policies outlined in [Section 4.11.1.2](#) and where an Environmental Assessment or a detailed decommissioning plan supported by the SVCA demonstrates that:

- a. all potential hydrologic and ecological impacts have been identified and considered,
- b. significant hydrologic features and functions within or adjacent to the river, creek, stream or watercourse are restored and enhanced through the retirement or removal of the structure and a site restoration plan is provided and supported by the SVCA,
- c. the risk of erosion and sedimentation during and after retirement or removal is addressed through a draw down plan supported by the SVCA,
- d. susceptibility to natural hazards is not increased and new hazards are not created, and
- e. SVCA's timing window is accommodated.

#### **4.11.1.7 Watercourse Interference – Erosion and Sediment Control Structures**

Erosion and sediment control structures to protect existing development and other uses deemed appropriate by the SVCA will be permitted where it can be demonstrated to the satisfaction of SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. erosion risk on adjacent, upstream and/or downstream properties is reduced or erosion and sedimentation processes are controlled to reduce existing or potential impacts from adjacent land uses, whichever is appropriate,
- d. natural channel design principles are followed to the extent possible,
- e. where unavoidable, intrusions on significant hydrologic features and functions are minimized, and it can be demonstrated that best management practices including site and infrastructure design and appropriate remedial measures will adequately restore features and functions,
- f. the SVCA's timing window is accommodated,

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<sup>12</sup> Retirement of a dam refers to a situation in which its original purpose or use is no longer necessary, and its operation is cancelled. Some retirement activities may involve the demolition of a structure or a change in the purpose, use, capacity, or location of a structure.

- g. erosion and sedimentation during future maintenance and repair works is minimized using best management practices including site and infrastructure design, construction controls and appropriate remedial measures, and
- h. works are maintained or repaired according to accepted engineering principles and approved engineering standards or to the satisfaction of the SVCA based on the scale and scope of the project.

#### **4.11.1.8 Watercourse Interference – Connected Ponds with No Water Intakes**

Ponds that outflow to a watercourse but have no water intakes from a watercourse will be permitted if it has been demonstrated to the satisfaction of the SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA,
- d. maximum berm heights above existing grades do not exceed the existing ground level within the Riverine Flooding or Erosion Hazard and all remaining fill is removed from the hazard area, and
- e. maintenance activities are carried out in accordance with [Section 4.7.7.2](#).

#### **4.11.1.9 Watercourse Interference – Bypass Ponds Associated with Site Restoration Plan and/or Conservation Projects**

Bypass Ponds connected to watercourses created as part of site restoration plan or a conservation project will be permitted where it can be demonstrated that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA,
- d. maximum berm heights above existing grades do not exceed the existing ground level within the Riverine Flooding or Erosion Hazard and all remaining fill is removed from the hazard area,
- e. maintenance activities are carried out in accordance with [Section 4.7.7.2](#), and
- f. the water intake is set above the elevation that permits continuous flow (i.e., refreshing of the pond will depend on increased stream flows from snow melt and rainfall events).

#### **4.11.1.10 Watercourse Interference – On-Line Ponds**

On-line ponds are designed to include inflows from and outflows to a watercourse and are generally

not permitted unless they are proposed at the very upstream end of a watercourse for a Conservation Project listed in [Section 4.11.1.2](#) and where a site plan and/or other site-specific study demonstrates that:

- a. there is no negative impact on the hydrologic functions of the watercourse,
- b. there are no negative impacts on areas of groundwater recharge/discharge,
- c. SVCA's timing window is accommodated, and
- d. maintenance activities are carried out in accordance with [Section 4.7.7.2](#).

#### **4.11.1.11 Watercourse Interference – Dredging**

Dredging of a river, creek, stream or watercourse will be permitted to improve hydraulic characteristics and fluvial processes where a dredging plan and/or other site-specific study demonstrates to the satisfaction of the SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA,
- d. streambank stability is enhanced,
- e. where unavoidable, intrusions on hydrologic features and functions are minimized, and it can be demonstrated that best management practices including site design and appropriate remedial measures will adequately restore features and functions,
- f. all dredged material is removed from the Riverine Flooding and Erosion Hazard and safely disposed of in accordance with the policies in provincial guidelines, and
- g. SVCA's timing window is accommodated.

#### **4.11.1.12 Watercourse Interference – Realignment, Channelization or Straightening**

Realignment, channelization or straightening of a river, creek, stream or watercourse will be permitted to improve hydraulic characteristics and fluvial processes or to improve natural features or water quality in accordance with the General Policies and where a site plan and/or other site-specific study demonstrates that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA,
- d. all feasible alternative alignments have been considered through an Environmental

Assessment supported by the SVCA or through site-specific studies, whichever is applicable based on the scale and scope of the project,

- e. stream bank stability is enhanced,
- f. where unavoidable, intrusions on hydrologic features and functions are minimized and it can be demonstrated that best management practices including site design and appropriate remedial measures will adequately restore features and functions,
- g. natural channel design principles are followed to the extent possible, and
- h. SVCA's timing window is accommodated.

#### **4.11.1.13 Watercourse Interference – Enclosures – Not Permitted**

Enclosures of creeks, streams or watercourses are generally not permitted.

#### **4.11.1.14 Watercourse Interference – Enclosures – Permitted**

Enclosures of creeks, streams or watercourses will be permitted where a proposal demonstrates that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. the interference on the natural features and hydrologic functions of the watercourse has been deemed to be acceptable by SVCA,
- d. all feasible alternative options and methods have been explored,
- e. susceptibility to natural hazards is not increased and no new hazards are created,
- f. sedimentation and erosion during construction and post construction is minimized using best management practices including site and infrastructure design, construction controls, and appropriate remedial measures,
- g. works are constructed, repaired and/or maintained according to accepted engineering principles and approved engineering standards or to the satisfaction of the SVCA, whichever is applicable based on the scale and scope of the project, and
- h. SVCA's timing window is accommodated.

## 4.12 Municipal Drains

Municipalities are responsible for managing, maintaining, repairing and improving drainage systems that have been constructed under the authority of the *Drainage Act*. Generally, Municipal Drains are designed by a Drainage Engineer and constructed by the municipality.

The *Conservation Authorities Act* does not exempt Municipal Drains from requiring Conservation Authority Permits and drainage works may require permits subject to the conditions outlined below. The SVCA will ensure that comments to municipalities regarding proposed drainage works as per the *Drainage Act* will be consistent with the requirements under SVCA's Regulation to prevent conflicting issues and the *Drainage Act* Review Team Protocol.

### 4.12.1.1 Maintenance and Repairs to Existing Municipal Drains

Maintenance or repair of municipal drains as described in and conducted in accordance with the mitigation requirements set out in the *Drainage Act* and the *Conservation Authorities Act* Protocol is exempt, except where work is within a regulated area associated with a wetland. When such works are proposed within a regulated area associated with a wetland, they will be permitted if it has been demonstrated to the satisfaction of SVCA that:

- a. the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock,
- b. the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property,
- c. there will be no impact on the hydrologic functions of the wetland, or the impacts are deemed acceptable by SVCA,
- d. the depth and/or width of the channel will not exceed its original design, and
- e. SVCA's timing window is accommodated.

### 4.12.1.2 New Municipal Drains and the Extension of Existing Drains

New Municipal Drain works, including new sections of existing drains, will be permitted in accordance with the relevant policies included in Section 4 of this manual, including but not limited to [Section 4.11.1.12: Watercourse Interference – Realignment, Channelization or Straightening](#). Any requirement for an Environmental Impact Study is associated with an SVCA permit application and is not and should not be considered an 'Environmental Appraisal' as referenced in the *Drainage Act* process.

## 5. Additional Guidelines

Watershed management is constantly evolving and from time-to-time guidelines are adopted for use by the SVCA. In addition, reference is made to other legislation that must be considered in the review of any works proposed for a permit under the CA Act and O. Reg. 41/24. The following are the current guidelines commonly used by the SVCA and additional information requirements frequently requested by staff when reviewing applications.

### 5.1 Natural Hazards

The assessment of flooding, floodproofing, erosion and slope stability impacts, hydrology and hydraulic analysis and various technical review criteria are set out in the following provincial documents:

- Understanding Natural Hazards, Ministry of Natural Resources, 2001
- Technical Guide – River & Stream Systems: Flooding Hazard Limit, Ministry of Natural Resources & Watershed Science Centre, 2002
- Technical Guide – River & Stream Systems: Erosion Hazard Limit, Ministry of Natural Resources & Watershed Science Centre, 2002
- Belt Width Delineation Procedures, Prent & Parish, 2001
- Geotechnical Principles for Stable Slopes, Terraprobe Limited & Aqua Solutions, 1998
- Ministry Directive B-100, Ministry of Transportation, 1980
- Great Lakes – St. Lawrence System and Large Inland Lakes, Technical Guides for Flooding, Erosion and Dynamic Beaches in Support of Natural Hazards Policies 3.1 of the Provincial Policy Statement, Ministry of Natural Resources, 2001

### 5.2 Hydrological Evaluations

Where the policies identify a need for a hydrologic evaluation, the evaluation shall, at a minimum:

- a. demonstrate that the development or interference activity will have no adverse effects on the hydrologically sensitive feature or on the related hydrological functions,
- b. identify planning, design and construction practices that will maintain and, where possible, improve or restore the health, diversity and size of the hydrologically sensitive feature, and
- c. determine whether the minimum vegetation protection zone is sufficient, and if it is not sufficient, specify the dimensions of the required minimum vegetation protection zone and provide for the maintenance and, where possible, improvement or restoration of natural self-sustaining vegetation within it.

### 5.3 Sediment and Erosion Control

All applications must demonstrate how disturbed areas will be stabilized to prevent soils and sediments from leaving the development site during or after work is complete. The Erosion and Sediment Control Guideline for Urban Construction (2019), is a general guideline that can be used to prepare sediment and erosion control plans. However, as this is an evolving science, applicants are encouraged to consult other sources of information to supplement their plans.

### 5.4 Stormwater Management Practices

Stormwater management plans are required to meet the standards and criteria set out in the Stormwater Management Planning and Design Manual, Ministry of Environment, March 2003, as may be revised, in addition to requirements/recommendations of any relevant watershed or

subwatershed study. Stormwater management facilities normally require a permit under Ontario Regulation 41/24 and the CA Act as part of approval of their outlet to a watercourse or if they located within another area regulated by SVCA.

## **5.5 Natural Channel Design**

Where a watercourse is to be altered, the use of state-of-the-art natural channel design will be encouraged. Adaptive Management of Stream Corridors in Ontario, Ministry of Natural Resources & Watershed Science Centre, 2002, is the primary document presently utilized by SVCA in conjunction with the documents outlined in section 5.1. Ontario's Stream Rehabilitation Manual, M. Heaton, R. Grillmayer, and J. Imhof, 2002.

## **5.6 Watershed and Subwatershed Plans**

Watershed and subwatershed plans provide specific direction for the overall water and resource management of specific creek systems. All applications will be reviewed to ensure their conformity with the applicable watershed and subwatershed plans.

## **5.7 Municipal Storm Drainage Policy and Criteria Manuals**

Most municipalities utilize specific manuals for the design of various municipal infrastructures. It is the responsibility of any applicant to ensure that designs submitted for approval to SVCA are in conformity with local municipal drainage requirements and engineering standards manuals.

## **5.8 Other Related Legislation**

*Lakes and Rivers Improvement Act & Public Lands Act:* The applicant should contact the Ontario Ministry of Natural Resources if any instream works are proposed to determine approval requirements under the *Lakes and Rivers Improvement Act* and the *Public Lands Act*.

*Ontario Water Resources Act:* The applicant should contact the Ontario Ministry of Environment, Climate Change & Parks for applicable policies and guidelines.

*Navigation Protection Act:* The applicant should contact Transport Canada and/or refer to the website at <http://laws-lois.justice.gc.ca/eng/acts/N-22/> for any works associated with a navigable waterway.

*Building Code & Municipal Site Alteration and Tree Cutting By-laws:* The applicant should contact their local municipality to determine additional approvals that may be required.

The above was not intended as a comprehensive listing of all legislation that could potentially affect the design or construction of an application.

## **5.9 Additional Information**

Through the review of permit applications, staff often require supplementary information. Stormwater management plans, sediment and erosion control plans, water balance studies, tree preservation plans, revegetation/rehabilitation plans and geotechnical assessments are frequently requested prior to providing approval, or as conditions of approval. Please note that the counties and local municipalities may have their own additional information requirements to facilitate their review of the documents. It is recommended that the applicant meet with all review agencies prior to initiating any studies to develop an agreed upon Terms of Reference.





## **Appendices**

[Appendix A: Glossary of Terms](#)

[Appendix B: Permit Application Checklist](#)

[Appendix C: Administrative Review Policies](#)

[Appendix D: Hearing Guidelines](#)

[Appendix E: Slope Stability Assessment Guidelines](#)

## Appendix A: A Glossary of Terms

**Accepted Engineering Principles** means those current coastal, hydraulic and geotechnical engineering principles, methods and procedures that would be judged by a peer group of qualified engineers (by virtue of their qualifications, training and experience), as being reasonable for the scale and type of project being considered, the sensitivity of the locations, and the potential threats to life and property.

**Access (Ingress/Egress)** means standards and procedures applied in engineering practice associated with providing safe passage for vehicles and people to and from a shoreline or river-side property during an emergency situation as a result of flooding, other water related hazards, the failure of floodproofing, and/or protection works, and/or erosion that have been reviewed and approved by the Saugeen Valley Conservation Authority and/or the Ontario Ministry of Natural Resources.

**Accessory Building or Structure** means a use or a building or structure that is subordinate and exclusively devoted to a main use, building or structure and located on the same lot.

**Apparent Valley or Confined Valley** means that part of the valleyland system where the valley walls are greater than 2 metres, with or without a floodplain.

**Anthropogenic** means created by a human (e.g. activities carried out by humans; human impact).

**Aquifer** means an underground layer of water-bearing permeable rock or unconsolidated materials (gravel, sand, silt or clay).

**Bankfull Width** means the formative flow of water that characterizes the morphology of a fluvial channel. In a single channel stream, “bankfull” is the discharge, which just fills the channel without flowing onto the floodplain.

**Best Management Practices (BMPs)** means methods, facilities and structures which are designed to protect or improve the environment and natural features and functions from the effects of development or interference.

**Confined River or Stream System** means a watercourse located within a valley corridor, either with or without a floodplain, and is confined by valley walls. The watercourse may be located at the toe of the valley slope, in close proximity to the toe of the valley slope (less than 15 m) or removed from the toe of the valley slope (more than 15 m). The watercourse can contain perennial, intermittent or ephemeral flows and may range in channel configuration, from seepage and natural springs to detectable channels.

**Control of Flooding** means the protection of people and property from flood related impacts from the regulatory flood or as defined in related case law.

**Creek** means a type of watercourse with a stream of water normally smaller than and often tributary to a river.

**Cumulative Effects** means the combined effects of all works in an area over time and the incremental effects associated with individual project in an area over time.

**Cut and Fill Balance** means all fill placed at or below the flood elevation is balanced with an equal

amount of soil material removal at or below the flood elevation within a defined reach of a watercourse.

**Dam** means a structure or work holding back or diverting water and includes a dam, tailings dam, dyke, diversion, channel, artificial channel, culvert or causeway (*Lakes and Rivers Improvement Act*, R.S.O. 1990 c. L3, s. 1)

**Development** as defined by the *Planning Act*, means the creation of a new lot, a change in land use, or the construction of buildings or structures, requiring approval under the *Planning Act*, but does not include:

- works that create or maintain infrastructure authorized under an environmental assessment process;
- works subject to the *Drainage Act*; or
- underground or surface mining or minerals or advanced exploration on mining lands in significant areas of mineral potential in Ecoregion 5E, where advanced exploration has the same meaning as under the *Mining Act*.

**Development Activity** as defined by the *Conservation Authorities Act* through Ontario Regulation 41/24 means:

- the construction, reconstruction, erection or placing of a building or structure of any kind;
- Any change to a building or structure that would have the effect of altering the use or potential use of the building or structure, increasing the size of the building or structure or increasing the number of dwelling units in the building or structure;
- site grading; or
- the temporary or permanent placing, dumping or removal of material, originating on the site or elsewhere.

**Drainage Area** means, for a point, the area that contributes runoff to that point.

**Dug-out or Isolated Ponds** mean anthropogenic waterbodies that are created by excavating basins with no inlet or outlet channels and in which surface and ground water collect.

**Dwelling Unit** means a suite operated as a housekeeping unit, used or intended to be used as a domicile by one or more persons and usually containing cooking, eating, living, sleeping and sanitary facilities.

**Dynamic Beach** means areas of inherently unstable accumulations of shoreline sediments along the Great Lakes – St. Lawrence System and large inland lakes, as identified by provincial standards, as amended from time to time. The dynamic beach hazard limit consists of the flooding hazard limit plus a dynamic beach allowance.

**Ecosystem** means systems of plants, animals and micro-organisms together with non-living components of their environment, related ecological processes and humans.

**Enclosure** means a pipe, tile, or other conduit for carrying a creek, stream or watercourse underground.

**Engineering Principles** means current coastal, hydraulic and geotechnical engineering principles, methods and procedures that would be judged by a peer group of qualified engineers (by virtue of their qualifications, training and experience), as being reasonable for the scale and type of project being considered, the sensitivity of the locations, and the potential threats to life and property.

**Environmental Assessment** means a process that is used to predict the environmental, social and economic effects of proposed initiatives before they are carried out. It is used to identify measure to mitigate adverse effects on the environment and can predict whether there will be significant adverse environmental effects, even after the mitigation is implemented.

**Environmental Impact Study (EIS)** means a report prepared to address the potential impacts of development or interference on natural features and functions. There are three main types:

- a *Comprehensive EIS* is a landscape scale, watershed or subwatershed study which sets the width of setbacks and offers guidance for the investigation, establishment and maintenance of buffers.
- a *Scoped EIS* is an area or site-specific study that addresses the potential negative impacts to features described previously in a comprehensive study.
- a *Full EIS* is an area or site-specific study prepared, in the absence of a comprehensive study to address possible impacts from a development. Due to the lack of guidance from a comprehensive study, the full EIS is typically much more detailed than a scoped study and will also include statements to address possible negative impacts at a regional scale.

**Erosion** means incremental or sudden dramatic riverine, shoreline, or slope processes that result in movements of large quantities of material which could include anthropocentric features, natural features, etc. and pose a hazard.

**Erosion Access Allowance** means a 6-metre development setback applied to the stable slope allowance/top of stable slope/meander belt allowance and forming part of the erosion hazard for confined (apparent) and unconfined (not apparent) river or stream systems. The erosion access allowance is applied to provide for emergency access to erosion prone areas, provide for construction access for regular maintenance and access to the site in the event of an erosion event or failure of a structure, and provide for protection against unforeseen or predicted external conditions which could have an adverse effect on the natural conditions or processes acting on or within an erosion prone area.

**Existing Use** means the type of activity associated with an existing building or structure or site on the date of a permit application.

**Factor of Safety** means the ratio of average available strength of the soil along the critical slip surface to that required to maintain equilibrium. The design minimum factors of safety are provided by the Ministry of Natural Resources Technical Guide for River and Stream Systems (2002). The higher factor of safety is used in complex geotechnical conditions or where there are geologically metastable materials. See table below for acceptable factors of safety for land uses.

Land Uses	Design Range in Factor of Safety
<b>Passive:</b> no buildings near slope. e.g., farm field, bush, forest, timberland, and woods.	1.10
<b>Light:</b> no habitable structures near slope. e.g., recreational parks, golf courses, buried small utilities, tile beds, barns, garages, swimming pool, sheds, satellite dishes, and dog houses.	1.20 to 1.30
<b>Active:</b> habitable or occupied structures near slope. e.g., residential, commercial and industrial buildings, retaining walls, decks, stormwater management facilities, and, storage/warehousing of non-hazardous substances.	1.30 to 1.50
<b>Infrastructure and Public Use:</b> public use structures or buildings. e.g., hospitals, schools, stadiums, cemeteries, bridges, high voltage power transmission lines, towers, storage/warehousing of hazardous materials, and waste management areas.	<b>1.40 to 1.50</b>

**Feasible** means with regards to floodproofing of a proposed addition to an existing building or structure that such measures are achievable without significantly altering the usability and practicality of executing and utilizing that proposed work.

**Habitable** mean that portion of a building or structure containing rooms or spaces required and intended for overnight occupancy and associated living space and includes those portions which contain facilities for storage, heating, air-conditioning, electrical, hot water supplies, etc., which are necessary to maintain the habitable condition, and any area that has the potential to be used as or converted to residential living space, including basements.

**Habitable Floor Space** means any area that has the potential to be used as or converted to residential living space, including basements.

**Hazardous Land** means land that could be unsafe for development because of naturally occurring processes associated with flooding, erosion, dynamic beaches or unstable soil or bedrock. These may include unstable soils (sensitive marine clays (leda), organic soils) or unstable bedrock (karst topography).

**Hazardous Substances** means substances which individually or in combination with other substances, are normally considered to pose a danger to or threat to public health, safety and the environment. These substances generally include a wide range of materials that are toxic, ignitable, corrosive, reactive, radioactive or pathological.

**Headwater** means the source and extreme upper reaches of a river, creek, stream or watercourse.

**Hydrologic Function** means the functions of the hydrologic cycle that include the occurrence, circulation, distribution and chemical and physical properties of water on the surface of the land, in the soil and underlying rocks, and in the atmosphere, and water's interaction with the environment including its relation to living things.

**Hydrologic Study** means a report prepared to address the potential impacts of development and interference on the hydrologic functions of a wetland or other natural feature.

**Interference/Interfere in any way** means any anthropogenic act or instance which hinders, disrupts, degrades or impedes in any way the natural features or hydrologic functions of a wetland or watercourse.

**Karst** means an area of irregular limestone in which erosion has produced fissures, sinkholes, underground streams, and caverns.

**Littoral** (associated with Lake Huron shoreline area), means the dry land at shoreline to the depth at which sunlight no longer penetrates to the bottom of the water.

**Lot of Record** means a lot that has been severed from a larger parcel which has not yet been developed. It is a parcel or tract of land described in deed or other legal document that is capable of being legally conveyed and contains no pre-existing buildings or structures.

**Meander Belt** means the area of land in which a watercourse channel moves or is likely to move over a period of time. It is generally considered 20 times of bankfull channel width at riffles in the reach.

**Meander Belt Allowance** means a limit for development within the areas where the river system is likely to shift. It is based on twenty (20) times the bankfull channel width where the bankfull channel width is measured at the widest riffle section of the reach. A riffle is a section of shallow rapids where the water surface is broken by small waves. The meander belt is centred over a meander belt axis that connects the riffle section of the stream.

**Meander Belt Axis** means the line or “axis” that the meander belt is centred over which connects all the riffle sections of a stream.

**Multi-lot** means four lots or more.

**Multi-unit** means any building or structure or portion thereof that contains more than one unit for any use (e.g. a residential dwelling unit, an industrial/commercial/institutional space designed or intended to be occupied or used for business, commercial, industrial or institutional purposes).

**Negligible** means not measurable or too small or unimportant to be worth considering.

**Normal High-Water Mark** means the usual or average level to which a body of water rises at its highest point and remains for a sufficient time so as to change the characteristics of the land. In flowing waters (rivers, streams) this refers to the “active channel/bankfull level” which is often the one-to-two-year flood flow return level. For inland lakes, it refers to those parts of the waterbody bed and banks that are frequently flooded by water to leave a mark on the land and where the natural vegetation changes from predominantly aquatic vegetation to terrestrial vegetation (excepting water tolerant species).

**Non-Apparent Valley or Unconfined Valley** means that part of the valleyland system where a river, creek, stream or watercourse is not contained within a clearly visible valley section or where valley walls do not exceed 2 metres.

**One Hundred Year Flood Event (100 Year Flood)** - rainfall or snowmelt, or a combination of rainfall and snowmelt, producing at any location in a river, creek, stream or watercourse a peak flow that

has a probability of occurrence of one per cent during any given year.

**One Hundred Year Erosion Rate** means the predicted lateral movement of a river, creek, stream or watercourse or inland lake over a period of one hundred years.

**Other Areas** means areas within 30 metres of a wetland where development and interference activities may interfere with the natural features or hydrologic function of a wetland or watercourse.

**Other Water-Related Hazards** means water-associated phenomena other than flooding hazards and wave uprush which act on shorelines. This includes, but is not limited to ship-generated waves, ice piling and ice jamming.

**Oversteepened Slope** means a slope which has a slope inclination equal to or greater than 33 1/3 per cent (3H:1V)) or as determined by an area or property specific geotechnical report.

**Protection Works** means structural or non-structural works which are intended to appropriately address damages caused by flooding, erosion and/or other water-related hazards.

**Qualified Professional** means a person with specific qualifications, training, and experience authorized to undertake work in accordance with the policies in accepted engineering or scientific principles, provincial standards, criteria and guidelines, and/or to the satisfaction of the SVCA.

**Regulated Area** means the area encompassed by all hazards and wetlands, plus any allowances, as defined by the CA Act and O. Reg. 41/24.

**Regulatory Flood** means the inundation under a flood resulting from the rainfall experienced during the greater of the Hurricane Hazel Storm Event, the 100-year flood, or a known larger event (Frazil Ice Flooding in the Geographic Town of Durham, April 1, 2016 Flood McCullough Lake), the limits of which define the riverine flooding hazard.

**Replacement/ Reconstruction** means the like-for-like removal of an existing building or structure and the construction of a new building or structure. Replacement does not include reconstruction on remnant foundations or derelict or abandoned buildings or structures.

**Restore** means the re-establishment or rehabilitation of a former or degraded feature with goal of returning natural or historic functions and characteristics that have been partially or completely lost.

**Riffle** means a section of shallow rapids where the water surface is broken by small waves.

**Riparian Vegetation** means the plant communities in the riparian zone, typically characterized by hydrophytic plants.

**Riparian Zone** means the interface between land and a flowing surface water body. Riparian is derived from Latin ripa meaning riverbank.

**River** means a type of watercourse that contains a large natural stream of water emptying into an ocean, lake, or other body of water and usually fed along its course by converging tributaries.

**Riverine Erosion Hazard** means the loss of land, due to human or natural processes, that poses a threat to life and property. The riverine erosion hazard limit is determined using considerations that include the 100-year erosion rate (the average annual rate of recession extended over a one-

hundred-year time span), an allowance for slope stability and access or, in unconfined systems, the meander belt allowance.

**Riverine Flooding Hazard** means the inundation under a flood resulting from the rainfall experienced during the greater of the Hurricane Hazel Storm, the 100-year flood, or a known larger event (Frazil Ice Flooding in the Geographic Town of Durham, April 1, 2016, Flood McCullough Lake), wherever it is greater, the limits of which define the riverine flooding hazard.

**Riverine Hazard Limit** means the limit which encompasses the flooding and erosion hazards associated with a river, creek, stream or watercourse in both confined and unconfined valley systems.

**Settlement Area** means urban areas and rural settlement areas within municipalities that are:

- built up areas where development is concentrated and which have a mix of land uses; and,
- lands which have been designated in an official plan for development over the long-term planning horizon.

**Safe Access** means where access to and from a site may be considered 'safe' for both pedestrians and automobiles where the following depth and velocity criteria are met:

- a. the depth of flooding to the site of the building does not exceed 0.3 metres under regulatory flood conditions,
- b. the velocity of floodwaters overtopping the access route does not exceed 1.7 metres per second under regulatory flood conditions, or
- c. the product of flooding depth and velocity to the site of the building does not exceed 0.4 square metres per second.

**Stage-Storage Discharge Relationship** means the relationship of flood storage and flood elevation values at various flood flow rates within a particular watercourse/floodplain reach. This relationship is used as a factor to determine whether the hydraulic function of the floodplain is preserved.

**Stream** means a type of watercourse with a stream of water normally smaller than and often but not always tributary to a river.

**Toe of Slope** means the lowest point on a slope, where the surface gradient changes from relatively shallow to relatively steep.

**Top of Slope** means the point of the slope where the downward inclination of the land begins, or the upward inclination of the land levels off. This point is situated at a higher topographic elevation of land than the remainder of the slope.

**Valleyland** means a natural area that occurs in a valley or other landform depression that has water flowing through or standing for some period of the year.

**Watercourse** means a defined channel, having a bed and banks or sides, in which a flow of water regularly or continuously occurs. A watercourse also includes a lake with inflow and outflow and a municipal drain.

**Watershed** means an area that is drained by a river and its tributaries.



**Wave Uprush** means the rush of water up onto a shoreline or structure following the breaking of a wave; the limit of wave uprush is the point of furthest landward rush of water onto the shoreline.

**Wetland (as defined by the Conservation Authorities Act),** means land that:

- a. is seasonally or permanently covered by shallow water or has a water table close or at the surface, and
  - b. directly contributes to the hydrological function of a watershed through connection with a surface watercourse, and
  - c. has hydric soils, the formation of which have been caused by the presence of abundant water, and
  - d. has vegetation dominated by hydrophytic plants or water tolerant plants, the dominance of which has been favoured by the presence of abundant water;
- but does not include periodically soaked or wet land that is used for agricultural purposes and no longer exhibits wetland characteristics

**Wetland (as defined by the Provincial Planning Statement),** means lands that are seasonally or permanently covered by shallow water, as well as lands where the water table is close to or at the surface. In either case the presence of abundant water has caused the formation of hydric soils and has favoured the dominance of either hydrophytic plants or water tolerant plants. The four major types of wetlands are swamps, marshes, bogs and fens. Periodically soaked or wet lands being used for agricultural purposes which no longer exhibit wetland characteristics are not considered to be wetlands for the purposes of this definition.

## Appendix B: Permit Application Checklist

### SAUGEEN VALLEY CONSERVATION AUTHORITY (SVCA)

#### MINIMUM APPLICATION REQUIREMENTS CHECKLIST

The checklist below includes minimum application requirements for applications for a permit under section 28.1 of the *Conservation Authorities Act*. We recommend pre-consultation with SVCA staff to ensure that all materials needed to complete the application are provided. Applicants will be notified if the application is incomplete. Should the application be deemed incomplete, the applicant will be notified about what information is required to complete the application.

Incomplete applications cannot be processed for a decision.

#### PER ONTARIO REGULATION NO. 41/24, 7(1), EACH APPLICATION WILL INCLUDE:

- Landowner and applicant contact information;
- Landowner Authorization Form, should the applicant be different from the landowner;
- The expected start and end dates of the project;
- A site plan of the area detailing the proposed work and its location;
- The proposed use of any buildings or structures following completion of the project, if applicable;
- The purpose of the watercourse or wetland alteration, if applicable;
- A summary of how work will be carried out, including the altering of watercourses or wetlands if applicable;
- Current and planned elevations of buildings and the land, if changes are to be made because of the project;
- How drainage will be managed during and after the project;
- A detailed description of any fill to be used or dumped;
- Any additional technical details, studies, or plans the authority asks for, including those discussed in early consultations (these could include a slope stability/erosion analysis, culvert design/calculations, flood plain surveys, etc.); and
- Payment of the applicable fee.

## Appendix C: Administrative Review Policies

The policies outlined below are intended to guide the Authority (*or its delegate*) when receiving, evaluating, and making a decision related to a request for review (herein referred to as an “administrative review”) submitted in accordance with s. 8 of Ontario Regulation 41/24 made under the *Conservation Authorities Act*, as amended.

### 1. Purpose of an Administrative Review

The purpose of an administrative review is to provide the applicant with an opportunity to resolve issues specified in ss. 8 (1) of O. Reg. 41/24.

Administrative reviews do not determine whether a permit will be issued, or the scope of conditions proposed to be attached to a permit; these factors will be assessed throughout the permit review process, after the administrative review is complete. An applicant will be provided with an opportunity to be heard by the Authority in a hearing should staff recommend refusal of their application or should staff propose permit conditions the applicant disagrees with.

Additionally, administrative reviews are not intended to be a procedure to settle permit fee disputes. Disputes related to the charging of the Authority’s permit fees will be addressed in accordance with Section 4.3.4 of the Environmental Planning and Regulations Policies Manual. Details regarding eligibility for administrative reviews are provided in Section 4 below.

### 2. Pre-submission Consultation

The Authority recommends that pre-submission consultation occur for the purpose of confirming the requirements of a complete application to obtain a permit. Please see Section 4.3.1 of the Environmental Planning and Regulations Policies Manual for more information.

Pre-submission consultation shall occur as a meeting between Authority staff, the applicant, and the municipality and/or other regulatory agencies (if applicable), prior to application submission. This meeting may occur prior to or at the same time as a site visit to the property where the activity is proposed to be carried out.

Pre-submission consultation is a critical value-added service that assists applicants with the application process. After the pre-submission consultation meeting, SVCA will provide the applicant with complete application requirements, scoping of required studies and inform the applicant of their right to an administrative review. A successful pre-submission consultation should result in a quality submission where the SVCA’s complete application requirements are met; thereby minimizing potential for an administrative review request.

Where an application has been submitted without pre-consultation, complete application requirements should be communicated to the applicant, in writing, during the 21 days allotted for a complete application decision.

### 3. Complete Application Requirements

SVCA’s complete application requirements are in accordance with s. 7 (1) and (2) of O. Reg. 41/24 and confirmed by SVCA staff to applicants during pre-submission consultation.

## **4. Eligibility**

Requests for administrative review apply to applications made under s. 28.1 of the *Conservation Authorities Act*. Administrative reviews undertaken by the Authority (*or its delegate*) shall be conducted under the following circumstances:

1. The applicant has not received written confirmation from SVCA within 21 days upon submission of the complete application and fee required by SVCA, or
2. The applicant disagrees with the SVCA's determination that the application for a permit is incomplete, and/or
3. The applicant is of the view that the request for other information, studies or plans is not reasonable.

The administrative review process is not available where the development activity has commenced without the necessary SVCA permit in place.

## **5. Timeline for Review**

Administrative reviews are completed within 30 days of receipt of a requested review. However, there may be extenuating circumstances where it is not possible to complete the administrative review within 30 days. In these cases, the Authority (*or its delegate*) will provide notice to the applicant of any anticipated delays and obtain written approval of the applicant to extend the timeline, if feasible.

## **6. Authority (*or Delegate*) Powers**

Subsection 8(2) of O. Reg. 41/24 establishes the outcome of an administrative review; being that the Authority (*or its delegate*) must:

- a. confirm that the application meets the requirements for a complete application; or provide reasons why the application is incomplete, and/or,
- b. provide reasons why a request for other information, studies or plans is reasonable or withdraw the request for all or some of the information, studies, or plans.

Section 28.4 of the *Conservation Authorities Act* enables an Authority to delegate any of its powers related to the issuance or cancellation of permits or to the holding of hearings in relation to the permits to its executive committee or to any other person or body subject to limitations or requirements prescribed by regulation. As such, the Authority delegates the above administrative review powers to the SVCA General Manager / Secretary-Treasurer (*insert resolution number here*).

## **7. Submitting a Request for Administrative Review**

The administrative review process must be commenced by the applicant by notifying SVCA staff. The applicant will be provided with a "Request for Administrative Review" form. Upon submission of the completed form and permit application fee, the delegated Authority staff member will commence the administrative review.

## **8. Administrative Review Process**

Upon receipt of a completed "Request for Administrative Review" form, the Authority (*or delegate*)

shall review all the information provided through the submission as well as all information available on the application in question. The Authority (or its delegate) may also reach out to the applicant for clarification or questions regarding their request for administrative review.

The Authority (or its delegate) will evaluate the request for administrative review in accordance with s. 8.1 below.

## **9. Evaluation Criteria**

The Authority (*or delegate*) shall evaluate the request for administrative review in accordance with the following standards:

1. That the request for review meets the eligibility criteria outlined in section 4 of these policies.
2. That the application and/or the requests for information, studies and plans by the SVCA are consistent with the requirements of the *Conservation Authorities Act* and O. Reg. 41/24.
3. That the applicant has submitted all components of a complete application required by SVCA staff.
4. To determine if the SVCA's request for other information, plans and studies is reasonable, the request must be made in accordance with the SVCA's Environmental Planning and Regulations Development Policies Manual for the proposed project, must reflect site-specific hazards, and the request is consistent with similar application requirements within the watershed.

## **10. Decision**

The decision for an administrative review is limited to determining a complete application and / or whether the request for all or some of the information, studies or plans is reasonable; it is not a decision as to whether to issue a permit, nor a process to settle permit fee disputes. The administrative review decision of the Authority (or its delegate) is final.

Upon completing the administrative review, the Authority (or delegate) will notify the applicant of the decision in writing, which must:

- Confirm that the application meets the SVCA's complete application requirements and is complete or provide reasons why the application is incomplete; or,
- Provide reasons why requests for other information, studies or plans are reasonable or withdraw the request for all or some of the information, studies or plans (if applicable).

A copy of or link to SVCA's policy and decision-making framework will be included in the decision notice.

## **11. Notice and Communication**

The Authority (*or delegate*) shall provide the following correspondence in writing to the applicant:

1. Within 1-2 business days, upon receipt of a "Request for Review" form, confirm the receipt of the request, set out the start and end dates of the administrative review period (requests for administrative review shall be completed within 30 days upon receipt of the request,

unless an extension is approved by the applicant); and,

2. Forthwith, upon completion of the review, provide notice of decision, with reasons.

## **12. Administrative Review Policies - Updates**

Non-housekeeping draft updates to the policies will be posted on the CA's website for a minimum of 30 days for stakeholder and public consultation in advance of consideration by the Authority's Members.

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## Appendix D: Hearing Guidelines

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# ***DRAFT Hearing Guidelines***

*Conservation Authorities Act*

**Saugeen Valley Conservation Authority (SVCA)**

**1078 Bruce Rd 12, Formosa, ON N0G 1W0**

May 15, 2025  
Revision No. 5.0



## Summary of Revisions

Revision	Date	Comments	Approval Authority
0	October, 2005	Guidelines prepared as an update to the October 1992 hearing guidelines.	MNRF Conservation Ontario Council
1	May, 2018	Housekeeping amendments made reflecting changes to appeal process as a result of the <i>Building Better Communities and Conserving Watersheds Act</i> , 2017 and subsequent Order in Council. Note: changes to appeal process are no longer valid.	Conservation Ontario Staff
2	September, 2020	Amendments made to incorporate the use of electronic hearings.	Conservation Ontario Council
3	September, 2021	Amendments made to incorporate hearings under 28.0.1 and update references to the Ontario Land Tribunal (OLT)	Conservation Ontario Council
4	May, 2023	References to the Executive Committee being the Hearing Board and replaced with the Board of Directors per the SVCA Administrative Bylaws.	SVCA Board of Directors
5	September, 2021	Amendments to update references for hearings and appeals further to the amended <i>Conservation Authorities Act</i> and O. Reg. 41/24.	Conservation Ontario Council
6	February, 2025	Updated references to CA Act section numbers and O. Reg 41/24; changed deadline to appeal to OLT from 30 to 90 days; removed guidance for hearings under 28.0.1 (repealed).	SVCA Board of Directors
7	May 15, 2025	Amendments to update references for hearings and appeals further to the amended <i>Conservation Authorities Act</i> and O. Reg. 41/24. Amendments to distinguish Model Hearing Guidelines from additional details / guidance for CA consideration.	Conservation Ontario Council

(Note: Text in **red** represents the amendments made in 2025)

## Table of Contents

1.0	DEFINITIONS.....	5
2.0	PURPOSE OF HEARING GUIDELINES.....	6
Table 1: Summary of Hearing Requirements under the Conservation Authorities Act and O. Reg. 41/247		
3.0	ROLE OF THE HEARING BOARD.....	8
3.1	Apprehension of Bias .....	8
3.2	Notice of Hearing .....	8
3.3	Pre-submission of Reports .....	10
4.0	HEARING .....	10
4.1	Public Hearing .....	10
4.2	Hearing Participants.....	10
4.3	Attendance of Hearing Board Members.....	10
4.4	Adjournments .....	10
4.5	Orders and Directions .....	11
4.6	Information Presented at Hearings .....	11
4.7	Conduct of Hearing .....	12
4.7.1	<i>Record of Attending Hearing Board Members .....</i>	<i>12</i>
4.7.2	<i>Opening Remarks .....</i>	<i>12</i>
4.7.3	<i>Presentation of Staff Information.....</i>	<i>12</i>
4.7.4	<i>Presentation of Party Information.....</i>	<i>12</i>
4.7.5	<i>Questions.....</i>	<i>13</i>
4.7.6	<i>Deliberation.....</i>	<i>13</i>
5.0	DECISION.....	13
Table 2: Hearing Board Decision Powers and Associated Appeal Mechanisms..... 13		
5.1	Notice of Decision .....	14
5.2	Adoption .....	15
6.0	RECORD.....	15
Appendix A.....		16
NOTICE OF HEARING.....		16
Appendix B.....		18
NOTICE OF HEARING.....		18
Appendix C.....		20
NOTICE OF HEARING.....		20
Appendix D .....		22
NOTICE OF HEARING.....		22
Appendix E .....		24

NOTICE OF HEARING.....	24
Appendix F .....	26
HEARING PROCEDURES .....	26
Appendix G.....	28
CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS.....	28
(Section 28.1, Subsection 5 of the Conservation Authorities Act) .....	28
Permit Application, with or without conditions .....	28
Appendix H.....	29
CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS.....	29
(Section 28.1.2, Subsection 7 of the Conservation Authorities Act) .....	29
Mandatory Permits, Zoning Orders .....	29
Appendix I .....	31
CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS.....	31
(Section 30.4, Subsection 6 of the Conservation Authorities Act) .....	31
To Consider a Stop Order .....	31
Appendix J .....	32
CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS.....	32
(Section 28.3, Subsections 4 of the Conservation Authorities Act).....	32
To Consider the Cancellation of a Permit .....	32
Appendix K .....	32
CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS.....	33
(Section 11, Subsection 6 of Ontario Regulation 41/24, made pursuant to Section 40, Subsection 4 of the Conservation Authorities Act) .....	33
To Consider an Extension to the Period of Validity of a Permit .....	33
Appendix L.....	34
Sample Notice of Decision (Refusal / Attaching Conditions).....	34
Appendix M.....	36
Sample Notice of Decision (Attaching Conditions, Minister's Zoning Order Permits) .....	36
Appendix N.....	38
Sample Notice of Decision (Stop Order) .....	38
Appendix O.....	40
Sample Notice of Decision (Cancellation of Permit).....	40
Appendix P .....	42
Sample Notice of Decision (Permit Extension) .....	42

## 1.0 DEFINITIONS

“Act” means the *Conservation Authorities Act*, R.S.O. 1990, c. C.27;

“Applicant” means a person who applies for a Permit to engage in an activity prohibited under the Act within the Authority’s jurisdiction;

“Application” means a formal request for a Permit to engage in an activity prohibited under the Act within the Authority’s jurisdiction;

“Authority” means the Board of Directors of the Saugeen Valley Conservation Authority;

“Executive Committee” means the Executive Committee appointed by the Authority;

“Hearing Board” means the Authority or Executive Committee while it is conducting hearings in accordance with the *Statutory Powers Procedure Act*, R.S.O. 1990, c. S.22. Further to section 28.4 of the *Conservation Authorities Act*, an Authority may also delegate any of its powers relating to the holding of hearings in relation to permits to any other person or body, subject to any limitations or requirements prescribed by regulation;

“Minister” means the Provincial Minister responsible for Conservation Authorities;

“Party” means an Applicant, Permit Holder, or individual subject to a Stop Order;

“Permit” means a permit to engage in otherwise prohibited activities under the Act, issued by the Authority (s. 28.1 and s. 28.1.2 permits) or by the Minister (s. 28.1.1 permits).

“Permit Holder” means a person who holds an active Permit issued by the Authority or a Minister’s Permit issued by the Minister;

“Staff” means the employees of the Saugeen Valley Conservation Authority;

“Stop Order” means a stop order issued under section 30.4 of the Act;

“Witness” means a person who is called to speak to evidence presented at a hearing.

## 2.0 PURPOSE OF HEARING GUIDELINES

The Hearing Guidelines provide a step-by-step process for conducting hearings required under ss. 28.1 (5), ss. 28.1.2 (7), ss. 28.3 (2), (3) and (4), ss. 30.4 (6) of the CAA and ss.11(4), (5) and (6) of O. Reg. 41/24. Hearings provide due process and ensure the rights of the Party are upheld.

These guidelines ensure hearings meet the legal requirements of the *Statutory Powers Procedures Act* (SPPA) without being unduly legalistic or intimidating to the participants.

The Hearing Board is empowered by law to make a decision, governed by the SPPA. The Board's decision powers are governed by the CAA and O. Reg. 41/24.

Section 25.1 of the SPPA provides that “a tribunal may make rules governing the practice and procedure before it”. The Hearing Rules are adopted under the authority of s. 25.1 of the SPPA. The SPPA applies to the exercise of a statutory power of decision where there is a requirement to hold or to afford the parties to the proceeding an opportunity for a hearing before making a decision. The SPPA sets out minimum procedural requirements governing such hearings and provides rule-making authority for establishing rules to govern such proceedings.

Table 1 below summarizes the legislative and regulatory requirements where a Party is to be provided with an opportunity for a hearing before the Authority.

**Table 1: Summary of Hearing Requirements under the Conservation Authorities Act and O. Reg. 41/24<sup>1</sup>**

Hearing Scenario	Legislative or Regulatory Reference	Party	Hearing Intent	Appeal
<b>Refusal</b> Section 28.1 Permit	CAA, ss. 28.1 (5)	Applicant	Intent to refuse	OLT – Within 90 days of receiving the reasons for the Authority’s decision  Minister’s Review – Within 15 days of receiving reasons for the Authority’s decision
<b>Attaching Conditions</b> Section 28.1 Permit	CAA, ss. 28.1 (5)	Applicant	Intent to attach conditions	
<b>Attaching Conditions</b> Section 28.1.2 Permit	CAA, ss. 28.1.2 (7)	Applicant	Intent to attach conditions	
<b>Cancellation</b> Section 28.1 Permit	CAA, ss. 28.3 (2)	Permit Holder	Intent to cancel	OLT – Within 90 days of receiving notice of decision from Authority
<b>Cancellation</b> Section 28.1.1 Permit	CAA, ss. 28.3 (2)	Permit Holder	Intent to cancel	
<b>Refuse Extension</b> Section 28.1 Permit	O. Reg. 41/24, ss. 11(4), (5), and (6)	Permit Holder	Intent to refuse extensions	No appeal
<b>Refuse Extension</b> Section 28.1.2 Permit	O. Reg. 41/24, ss. 11(4), (5), and (6)	Permit Holder	Intent to refuse extensions	
<b>Stop Order</b>	CAA, ss. 30.4	Individual subject to Stop Order	Issuance of Stop Order	Minister or body prescribed by the regulations – Within 30 days of receiving reasons for the Authority’s decision

<sup>1</sup> Note: The information presented in this table is a summary. For full details, please review the relevant sections of the *Conservation Authorities Act* and O. Reg. 41/24.

### 3.0 ROLE OF THE HEARING BOARD

#### 3.1 Apprehension of Bias

In any of the hearing scenarios listed in Table 1 above, the Hearing Board is acting as a decision-making tribunal. The tribunal is to act fairly. Under general principles of administrative law relating to the duty of fairness, the tribunal is obliged not only to avoid any bias but also to avoid the appearance or reasonable apprehension of bias. The following are three examples of steps to be taken to avoid apprehension of bias where it is likely to arise.

- (a) No member of the Authority (or delegate) taking part in the hearing should have prior involvement with the Application or other hearing matter indicated in Table 1 that could lead to a reasonable apprehension of bias on the part of that member. Where a member has a personal interest, the test is whether a reasonably well-informed person would consider that the interest might have an influence on the exercise of the official's public duty. Where a member is a municipal councilor, the *Municipal Conflict of Interest Act* applies. In the case of a previously expressed opinion, the test is that of an open mind, i.e., is the member capable of persuasion in participating in the decision making.
- (b) Any material distributed to the Hearing Board relating to the merits of an Application or other matter indicated in Table 1 that is the subject of a hearing shall also be distributed to the Party at the same time. The Party will be afforded an opportunity to distribute similar pre-hearing material. These materials can be distributed electronically.
- (c) The Party will be given an opportunity to attend the hearing before a decision is made; however, the Party does not have to be present for a decision to be made.

#### 3.2 Notice of Hearing

The Party is entitled to **reasonable notice** of the hearing pursuant to the *SPPA*. The Notice of Hearing shall be sent to the Party within sufficient time to allow the Party to prepare for the hearing. To ensure that reasonable notice is given, it is the general practice of SVCA that prior to sending the Notice of Hearing, the Party be consulted to determine an agreeable date and time based on the SVCA's regular meeting schedule.

In cases where the Authority (or designated Staff) intends to refuse a request for a Permit extension, the Permit Holder must be given **at least 5 days' notice** of the hearing date, per ss. 11(6) of O. Reg. 41/24. This represents the minimum notice, and other timelines provided in these guidelines may influence the total notice period (e.g., timelines associated with pre-submission of reports).

**The Notice of Hearing must contain or append the following:**

- (a) Reference to the applicable legislation under which the hearing is to be held (i.e., the *Conservation Authorities Act*).

- (b) The time, place and the purpose of the hearing (i.e., intent to refuse Application or request for extension, intent to attach conditions, intent to cancel a Permit, and Stop Order).

**OR for Electronic Hearings:** The time, purpose of the hearing, and details about the manner in which the hearing will be held. For Electronic Hearings, the Notice must also contain a statement that the Party should notify the Authority if they believe holding the hearing electronically is likely to cause them significant prejudice. The Authority will assume the Party has no objection to the electronic hearing if no such notification is received.

- (c) Particulars to identify the Party, property, and the nature of the matter that forms the subject of the hearing.

**Note:** For hearings related to the intent to refuse an Application or attach conditions to a Section 28.1 or 28.1.2 Permit, if the Applicant is not the landowner but the prospective owner, the Applicant must have written authorization from the registered landowner. In these circumstances, landowner authorization should be established further to being a requirement for submission of a complete application, as stated in subsection 7(1)(h) of O. Reg. 41/24.

- (d) Reasons for the decision / Staff recommendation / action.

**Note:** Reasons shall be specifically stated. Written reasons should be clear and concise and contain sufficient detail to enable the Party to understand the issues so he or she can be adequately prepared for the hearing. It is sufficient to reference in the Notice of Hearing that the decision / Staff recommendation is based on the reasons outlined in previous correspondence or a hearing report that will follow.

- (e) A statement notifying the Party that the hearing may proceed in the Party's absence and that the Party will not be entitled to any further notice of the proceedings.

**Note:** Except in extreme circumstances, it is recommended that the hearing not proceed in the absence of the Party.

- (f) Reminder that the Party is entitled to be represented at the hearing by a representative such as legal counsel, if desired.

**Note:** The Authority may also be represented at the hearing by counsel or Staff.

- (g) Reminder of protections afforded to the Party under the Evidence Act, R.S.O 1990, c. E.23 and the Canada Evidence Act, R.S.C., 1985, c. C-5 regarding information provided during hearings (see s. 3.6(a)).



- (h) A copy of the Authority's Hearing Guidelines.

**Note:** It is generally SVCA's practice that the Notice of Hearing be directed to the **Party** and/or landowner, by registered mail, **and other methods as determined advisable (e.g., e-mail)**. Please refer to **Appendices A to E** for Notice of Hearing examples.

### **3.3 Pre-submission of Reports**

**Staff may prepare and submit a written report to the Hearing Board in advance of the hearing. A copy of the Staff report will be shared with the Party. The Party shall be provided with the same opportunity to submit a written report to the Hearing Board.**

**Note:** The above-noted policy is applicable where it is the practice of the Authority to submit reports to the Hearing Board members in advance of the hearing (i.e., inclusion on an Authority / Executive Committee agenda). In such instances, the **Party shall be given at least two weeks** to prepare a report once the reasons for the Staff recommendations have been received. Subsequently, this may affect the timing and scheduling of the Staff hearing reports.

## **4.0 HEARING**

### **4.1 Public Hearing**

Pursuant to the SPPA, hearings, including electronic hearings, are required to be held in public (**"open to the public"**). For electronic hearings, public attendance should be synchronous with the hearing.

**A hearing or part of a hearing may be closed to the public in accordance with the SPPA or the Authority's Administrative By-Laws (e.g., where the Hearing Board is of the opinion that public security matters, intimate financial matters, personal matters, or other matters would be disclosed at the hearing).**

### **4.2 Hearing Participants**

The Act does not provide for third party status at the hearing. Any information **related to the matter that forms the subject of the hearing** provided by third parties **must** be incorporated within the presentation of information by, or on behalf of, the **Party or Staff** as appropriate.

### **4.3 Attendance of Hearing Board Members**

In accordance with case law relating to the conduct of hearings, members of the Hearing Board who will make a Hearing decision must be present during the full course of the hearing. If it is necessary for a member to leave, the remaining members can continue with the hearing and render a decision, **provided quorum is maintained**.

### **4.4 Adjournments**

The **Hearing** Board may adjourn a hearing on its own motion or that of the **Party** or Staff where it is satisfied that an adjournment is necessary for an adequate hearing to be held. **While adjourned, members of the Hearing Board shall not discuss the matter that is the subject of the hearing.**

Any adjournments form part of the hearing record.

#### 4.5 Orders and Directions

**In accordance with ss. 9 (2) of the SPPA, a Hearing Board is entitled to make orders or directions to maintain order and prevent the abuse of its hearing processes.**

**Note: Example Hearing Procedures are included in Appendix F.**

#### 4.6 Information Presented at Hearings

- (a) The SPPA requires that a Witness be informed of their right to object pursuant to the *Evidence Act, R.S.O. 1990, c. E.23 ("Evidence Act")* and the *Canada Evidence Act, R.S.C., 1985, c. C-5 ("CEA")*. The *Evidence Act* and *CEA* indicate that **any answers provided by a Witness during the hearing are not admissible against the Witness in any criminal trial or proceeding.**

**Note: This information should be provided to the Party as part of the Notice of Hearing.**

- (b) Information [is / is not] presented under oath or affirmation.

**Note:** It is the decision of the Hearing Board as to whether information is presented under oath or affirmation. It is not a legal requirement. The Party must be informed of the above, prior to or at the start of the hearing.

- (c) The **Hearing** Board may authorize receiving a copy rather than the original document. However, the **Hearing** Board can request certified copies of the document if required.
- (d) Privileged information, such as solicitor/client correspondence, cannot be heard.
- (e) Information that is not directly within the knowledge of the speaker (hearsay) **can be heard if relevant to the issues of the hearing.**
- (f) The **Hearing** Board may take into account matters of common knowledge (e.g., geographic or historic facts, times, measures, weights, etc.) or generally recognized scientific or technical facts, information or opinions within its specialized knowledge without hearing specific information to **inform their decision.**
- (g) **Staff and the Party shall not present new information at the hearing that has not been**

submitted to the Hearing Board and the other Party.

## **4.7 Conduct of Hearing**

### **4.7.1 Record of Attending Hearing Board Members**

Attendance of Hearing Board members shall be recorded at the opening of the hearing.

### **4.7.2 Opening Remarks**

The Chairperson shall convene the hearing with opening remarks which generally; identify the Party, the nature of the matter that forms the subject of the hearing (e.g., Application, Permit, Stop Order), and the property location; outline the hearing procedures; and advise on requirements of the *Evidence Act* and the *CEA*.

In an electronic hearing, all the parties and the members of the Hearing Board must be able to clearly hear one another and any Witnesses throughout the hearing.

**Note:** Model Opening Remarks are provided in Appendices G-K.

### **4.7.3 Presentation of Staff Information**

Staff present reasons for their recommendations/decision associated with refusal or conditions of approval of the Permit Application, refusal of Permit extensions, cancellations or Stop Orders; in addition to providing legislative/regulatory background and case background. Any reports, documents or plans that form part of the presentation shall be properly indexed and received.

**Note:** Consideration should be given to the designation of one Staff member or legal counsel who coordinates the presentation of information and asks questions on behalf of all Staff. Additional Staff may participate as required (e.g., technical Staff).

### **4.7.4 Presentation of Party Information**

The Party has the opportunity to present information at the conclusion of the Staff presentation. Any reports, documents, or plans which form part of the submission should be properly indexed and received.

The Party shall present information as it applies to the purpose of the hearing (e.g., related to activities covered by the permit application, permit conditions, activities subject to a Stop Order, etc.).

- The Party may be represented by legal counsel or agent, if desired.
- The Party may present information to the Hearing Board and/or have invited advisors to present information to the Board.
- The Party's presentation may include technical Witnesses, such as an engineer, ecologist, hydrogeologist, etc.

#### 4.7.5 Questions

Members of the Hearing Board may direct questions to each speaker as the information is being heard. The **Party** and/or agent can make any comments or questions on the **Staff** report.

Pursuant to the SPPA, the **Hearing** Board can limit questioning where it is satisfied that there has been full and fair disclosure of the facts presented.

**Note:** The courts have been particularly sensitive to the issue of limiting questions and there is a tendency to allow limiting of questions only where it has clearly gone beyond reasonable or proper bounds.

#### 4.7.6 Deliberation

After all the information is presented, the **Hearing** Board **may debate and vote in open session or** may adjourn the hearing and retire in private to confer. **Legal counsel may be secured to advise the Hearing Board when conferring in private.** The Board may reconvene on the same date or at some later date to advise of their decision. The **Hearing** Board members shall not discuss the hearing with others prior to the decision of the Board being finalized.

### 5.0 DECISION

Hearing participants must receive written notice of the Hearing Board's decision. The Hearing Board shall itemize and record information of particular significance which led to their decision.

**Note:** It is important that the person who requested the hearing has a clear understanding of the decision, as well as the **Party's** right to appeal the decision to the Ontario Land Tribunal, the Minister, or other prescribed body (as appropriate and in accordance with the CAA and O. Reg. 41/24). See Appendices L-P for sample Notice of Decision letters.

Table 2 below summarizes the Hearing Board decision powers in accordance with the Act and O. Reg. 41/24, as well as associated appeal rights for the Party.

**Table 2: Hearing Board Decision Powers and Associated Appeal Mechanisms<sup>2</sup>**

Hearing Scenario	Hearing Board Decision Powers	Appeal Rights
<b>Considering Refusal or Attaching Conditions</b> (Section 28.1 Permit)	(a) Issue the Permit; (b) Issue the Permit subject to conditions; or, (c) Refuse the Permit.	Request Minister's Review within 15 days after receiving Authority's decision (CAA, ss. 28.1 (8)); or,  Appeal to the OLT within 90

<sup>2</sup> Note: The information presented in this table is a summary. For full details, please review the relevant sections of the *Conservation Authorities Act* and O. Reg. 41/24

		days of receiving the Authority's decision (in accordance with CAA requirements) (CAA, ss. 28.1 (20) (21)).
<b>Considering Attaching Conditions</b> (Section 28.1.2 Permit)	(a) Issue the Permit; or, (b) Issue the Permit subject to conditions.	Request Minister's Review within 15 days after receiving Authority's reasons for conditions (CAA, ss. 28.1.2 (9)); or,  Appeal to the OLT within 90 days of receiving the Authority's reasons for conditions (in accordance with CAA requirements) (CAA, ss. 28.1.2(14) (15)).
<b>Considering Cancellation</b> (Section 28.1 or 28.1.1 Permit)	(a) Confirm decision to cancel Permit; (b) Rescind decision to cancel Permit; or, (c) Vary decision to cancel Permit.	Appeal to the OLT within 90 days after receiving the Authority's decision (CAA, ss.28.3(6))
<b>Considering Extension</b> (Section 28.1 or 28.1.2 Permit)	(a) Confirm the refusal of the extension; or, (b) Grant an extension for such period of time as it deems appropriate, as long as the total period of validity of the Permit does not exceed the applicable maximum period specified in O. Reg. 41/24.	No appeal mechanism.
<b>Considering Stop Order</b> (Section 30.4)	(a) Confirm the order; (b) Amend the order; or, (c) Remove the order, with or without conditions.	Appeal to the Minister or a body prescribed by the regulations within 30 days after receiving the Authority's decision (CAA, ss. 30.4(9))

## 5.1 Notice of Decision

The **Notice of Decision** should include the following information:

- (a) The identification of the person who requested the hearing, property, and the purpose of the hearing (i.e., Application for a Permit, attaching Permit conditions, request for

Permit extension, Stop Order, or cancellation of Permit).

- (b) The decision (as indicated in Table 2 above).
- (c) Written reasons for the decision.

**Note:** Written reasons for the decision must be clearly outlined in plain language.

- (d) A copy of the Hearing Board resolution.
- (e) Notice of the Party's right to appeal (as indicated in Table 2 above).

**Note:** It is recommended that the written Notice of Decision be forwarded to the Party by registered mail, and other methods as determined advisable (e.g., e-mail). See Appendices L-P for sample Notice of Decision letters.

## 5.2 Adoption

The Hearing Board shall adopt a resolution containing the decision and any particulars of the decision.

## 6.0 RECORD

The Authority shall compile a record of the hearing. In the event of an appeal, a copy of the record should be forwarded to the OLT or Minister (as appropriate).

The record must include the following:

- (a) As applicable, copies of the Application for the Permit, the Permit issued, notice of cancellation, or Stop Order that was the subject of the hearing;
- (b) The Notice of Hearing;
- (c) Any orders made by the Hearing Board (e.g., adjournments);
- (d) All information received by the Hearing Board;
- (e) Attendance of Hearing Board members;
- (f) The decision and written reasons for decisions of the Hearing Board; and,
- (g) The Notice of Decision sent to the Party.

## Appendix A

### NOTICE OF HEARING

#### IN THE MATTER OF

The Conservation Authorities Act,  
R.S.O. 1990, Chapter 27

AND IN THE MATTER OF a permit application by

#### MADE TO THE

#### SAUGEEN VALLEY CONSERVATION AUTHORITY

Pursuant to section 28.1, subsection 5 of the said Act

**TAKE NOTICE THAT** a Hearing before the Board of Directors of the Saugeen Valley Conservation Authority will be held under section 28.1, subsection 5 of the Conservation Authorities Act at the offices of the said Authority 1078 Bruce Rd 12, Formosa, Ontario, at the hour of [TIME], on the day of [DATE], 202X, [for electronic hearings, include details about the manner in which the hearing will be held] with respect to the application by [NAME] to permit development within an area regulated by the Authority in order to ensure the activity is not likely to [affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock; create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property] on Lot , Plan/Lot , Concession , [STREET] in the City of , Regional Municipality of , River Watershed.

**TAKE NOTICE THAT** you are invited to make a delegation and submit supporting written material to the Board of Directors for the meeting of [meeting number]. If you intend to appear [For electronic hearings: or if you believe that holding the hearing electronically is likely to cause significant prejudice], please contact [NAME]. Written material will be required by [DATE], to enable the Board members to review the material prior to the meeting.

**TAKE NOTICE THAT** this hearing is governed by the provisions of the Statutory Powers Procedure Act. Under the Act, a witness is automatically afforded a protection that is similar to the protection of the Ontario Evidence Act. This means that the evidence that a witness gives may not be used in subsequent civil proceedings or in prosecutions against the witness under a Provincial Statute. It does not relieve the witness of the obligation of this oath since matters of perjury are not affected by the automatic affording of the protection. The significance is that the legislation is Provincial and cannot affect Federal matters. If a witness requires the protection of the Canada Evidence Act that protection must be obtained in the usual manner. The Ontario Statute requires the tribunal to draw this matter to the attention of the witness, as this tribunal has no knowledge of the affect of any evidence that a witness may give.

**AND FURTHER TAKE NOTICE** that if you do not attend at this Hearing, the **Board of Directors** of the Conservation Authority may proceed in your absence, and you will not be entitled to any further notice in the proceedings.

**DATED** the \_\_\_\_\_ day of \_\_\_\_\_, 202X

The **Board of Directors** of the Conservation Authority

Per:

[General Manager / Secretary-Treasurer]

DRAFT



## Appendix B

### NOTICE OF HEARING

#### IN THE MATTER OF

The Conservation Authorities Act,  
R.S.O. 1990, Chapter 27

AND IN THE MATTER OF a permit application by

#### MADE TO THE

#### SAUGEEN VALLEY CONSERVATION AUTHORITY

Pursuant to section 28.1.2, subsection 7 of the said Act

**TAKE NOTICE THAT** a Hearing before the Board of Directors of the Saugeen Valley Conservation Authority will be held under section 28.1.2, subsection 7 of the Conservation Authorities Act at the offices of the said Authority 1078 Bruce Rd 12, Formosa, Ontario, at the hour of [TIME], on the day of [DATE], 202X, [for electronic hearings, include details about the manner in which the hearing will be held] with respect to the application by [NAME] to permit development within an area regulated by the Authority in association with a Minister's Zoning Order [REGULATION NUMBER] on Lot , Plan/Lot , Concession , [STREET] in the City of , Regional Municipality of , River Watershed.

**TAKE NOTICE THAT** you are invited to make a delegation and submit supporting written material to the Board of Directors for the meeting of (meeting number). If you intend to appear [For electronic hearings: or if you believe that holding the hearing electronically is likely to cause significant prejudice], please contact [NAME]. Written material will be required by [DATE], to enable the Board members to review the material prior to the meeting.

**TAKE NOTICE THAT** pursuant to section 28.1.2, subsection 3 of the Conservation Authorities Act, a Conservation Authority is required to grant the permit applied for and may only impose conditions to the permit, provided all legislative requirements are met. The Hearing will therefore focus on the conditions to be imposed to the granting of the permit.

**TAKE NOTICE THAT** this hearing is governed by the provisions of the Statutory Powers Procedure Act. Under the Act, a witness is automatically afforded a protection that is similar to the protection of the Ontario Evidence Act. This means that the evidence that a witness gives may not be used in subsequent civil proceedings or in prosecutions against the witness under a Provincial Statute. It does not relieve the witness of the obligation of this oath since matters of perjury are not affected by the automatic affording of the protection. The significance is that the legislation is Provincial and cannot affect Federal matters. If a witness requires the protection of the Canada Evidence Act that protection must be obtained in the usual manner. The Ontario Statute requires the tribunal to draw this matter to the attention of the witness, as

this tribunal has no knowledge of the affect of any evidence that a witness may give.

**AND FURTHER TAKE NOTICE** that if you do not attend at this Hearing, the **Board of Directors** of the Conservation Authority may proceed in your absence, and you will not be entitled to any further notice in the proceedings.

**DATED** the \_\_\_\_ day of \_\_\_\_\_, 202X

The Board of Directors of the Conservation Authority

Per:

[General Manager / Secretary-Treasurer]

## Appendix C

### NOTICE OF HEARING

#### IN THE MATTER OF

The Conservation Authorities Act,  
R.S.O. 1990, Chapter 27

#### AND IN THE MATTER OF a Stop Order

Issued by the

#### SAUGEEN VALLEY CONSERVATION AUTHORITY

Pursuant to Section 30.4, Subsection 6 of the said Act

**TAKE NOTICE THAT** a Hearing before the Board of Directors of the Saugeen Valley Conservation Authority will be held under section 30.4, subsection 6 of the *Conservation Authorities Act* at the offices of the said Authority, 1078 Brice Rd 12, Formosa, Ontario, at the hour of [TIME], **on the day of [DATE], 202X**, [for electronic hearings, include details about the manner in which the hearing will be held] with respect to **a Stop Order** issued to [NAME] on [date Stop Order was issued]. The Stop Order requires [NAME] to **[stop engaging in or to not to engage]** in the following activity(ies) on Lot , Plan/Lot , Concession , [STREET] in the City of , Regional Municipality of , River Watershed:

**TAKE NOTICE THAT** you are invited to make a delegation and submit supporting written material to the Board of Directors for the meeting of [meeting number]. If you intend to appear [For electronic hearings: or if you believe that holding the hearing electronically is likely to cause significant prejudice], please contact [NAME]. Written material will be required by [DATE], to enable the Board members to review the material prior to the meeting.

**TAKE NOTICE THAT** this hearing is governed by the provisions of the *Statutory Powers Procedure Act*. Under the Act, a witness is automatically afforded a protection that is similar to the protection of the *Ontario Evidence Act*. This means that the evidence that a witness gives may not be used in subsequent civil proceedings or in prosecutions against the witness under a Provincial Statute. It does not relieve the witness of the obligation of this oath since matters of perjury are not affected by the automatic affording of the protection. The significance is that the legislation is Provincial and cannot affect Federal matters. If a witness requires the protection of the *Canada Evidence Act* that protection must be obtained in the usual manner. The Ontario Statute requires the tribunal to draw this matter to the attention of the witness, as this tribunal has no knowledge of the affect of any evidence that a witness may give.

**AND FURTHER TAKE NOTICE** that if you do not attend this Hearing, the [Board of Directors of the Conservation Authority may proceed in your absence, and you will not be entitled to any further notice in the proceedings.

**DATED** the \_\_\_\_\_ day of , \_\_\_\_\_ 202X

The Board of Directors of the  
Conservation Authority

Per:

[General Manager / Secretary-Treasurer]

DRAFT

## Appendix D

### NOTICE OF HEARING

#### IN THE MATTER OF

The Conservation Authorities Act,  
R.S.O. 1990, Chapter 27

**AND IN THE MATTER OF** cancellation of Permit Number ##

Issued by the

#### **SAUGEEN VALLEY CONSERVATION AUTHORITY**

Pursuant to Section 28.3, Subsections 2, 3, AND 4 of the said Act

**TAKE NOTICE THAT** a Hearing before the Board of Directors of the Saugeen Valley Conservation Authority will be held under Section 28.3, subsection 4 of the *Conservation Authorities Act* at the offices of the said Authority 1078 Bruce Rd 12, Formosa, Ontario, at the hour of [TIME], on the day of [DATE], 202X, [for electronic hearings, include details about the manner in which the hearing will be held] with respect to the 'Notice of Intent to Cancel Permit Number XX' issued to [NAME] on [DATE the Intent to Cancel Notice was issued] that permits development within an area regulated by the Authority on Lot , Plan/Lot , Concession , [STREET] in the City of , Regional Municipality of , River Watershed.

**TAKE NOTICE THAT** you are invited to make a delegation and submit supporting written material to the Board of Directors for the meeting of [meeting number]. If you intend to appear [For electronic hearings: or if you believe that holding the hearing electronically is likely to cause significant prejudice], please contact [NAME]. Written material will be required by [DATE], to enable the Board members to review the material prior to the meeting.

**TAKE NOTICE THAT** this hearing is governed by the provisions of the *Statutory Powers Procedure Act*. Under the Act, a witness is automatically afforded a protection that is similar to the protection of the *Ontario Evidence Act*. This means that the evidence that a witness gives may not be used in subsequent civil proceedings or in prosecutions against the witness under a Provincial Statute. It does not relieve the witness of the obligation of this oath since matters of perjury are not affected by the automatic affording of the protection. The significance is that the legislation is Provincial and cannot affect Federal matters. If a witness requires the protection of the *Canada Evidence Act* that protection must be obtained in the usual manner. The Ontario Statute requires the tribunal to draw this matter to the attention of the witness, as this tribunal has no knowledge of the affect of any evidence that a witness may give.

**AND FURTHER TAKE NOTICE** that if you do not attend this Hearing, the Board of Directors of the Conservation Authority may proceed in your absence, and you will not be entitled to any further notice in the proceedings.

**DATED** the \_\_\_\_\_ day of \_\_\_\_\_ 202X

The Board of Directors of the  
Conservation Authority

Per:

[General Manager / Secretary-Treasurer]

DRAFT

## Appendix E

### NOTICE OF HEARING

#### IN THE MATTER OF

The Conservation Authorities Act,  
R.S.O. 1990, Chapter 27

**AND IN THE MATTER OF** refusal of a request for an extension to the period of validity for Permit  
Number ##

Issued by the

#### **SAUGEEN VALLEY CONSERVATION AUTHORITY**

Pursuant to Section 11, Subsections. 4, 5, AND 6 of Ontario Regulation 41/24,  
made pursuant to Section 40, Subsection 4  
of the said Act

**TAKE NOTICE THAT** a Hearing before the Board of Directors of the Conservation Authority will be held under section 11, subsection 6 of O. Reg. 41/24 at the offices of the said Authority 1078 Bruce Rd 12, Formosa, Ontario, at the hour of [TIME], on the day of [DATE], 202X, [for electronic hearings, include details about the manner in which the hearing will be held] with **respect to a 'Request for Permit Extension' for Permit Number ##** issued to [NAME] on [DATE] that permits development within an area regulated by the Authority on Lot , Plan/Lot , Concession , [STREET] in the City of , Regional Municipality of , River Watershed.

**TAKE NOTICE THAT** you are invited to make a delegation and submit supporting written material to the Board of Directors for the meeting of [meeting number]. If you intend to appear [For electronic hearings: or if you believe that holding the hearing electronically is likely to cause significant prejudice], please contact [NAME]. Written material will be required by [DATE], to enable the Board members to review the material prior to the meeting.

**TAKE NOTICE THAT** this hearing is governed by the provisions of the *Statutory Powers Procedure Act*. Under the Act, a witness is automatically afforded a protection that is similar to the protection of the *Ontario Evidence Act*. This means that the evidence that a witness gives may not be used in subsequent civil proceedings or in prosecutions against the witness under a Provincial Statute. It does not relieve the witness of the obligation of this oath since matters of perjury are not affected by the automatic affording of the protection. The significance is that the legislation is Provincial and cannot affect Federal matters. If a witness requires the protection of the *Canada Evidence Act* that protection must be obtained in the usual manner. The Ontario Statute requires the tribunal to draw this matter to the attention of the witness, as this tribunal has no knowledge of the affect of any evidence that a witness may give.

**AND FURTHER TAKE NOTICE** that if you do not attend at this Hearing, the Board of

Directors of the Conservation Authority may proceed in your absence, and you will not be entitled to any further notice in the proceedings.

**DATED** the \_\_\_\_\_ day of \_\_\_\_\_, 202X

The Board of Directors of the Conservation Authority

Per:

[Chair of Hearing Board / General Manager /  
Secretary-Treasurer]



## Appendix F

### HEARING PROCEDURES

1. Motion to sit as Hearing Board.
2. Roll Call followed by the Chairperson's opening remarks. For electronic hearings, the Chairperson shall ensure that all parties and the Hearing Board are able to clearly hear one another and any Witnesses throughout the hearing.
3. Staff will introduce to the Hearing Board the **Party and their agent** and others wishing to speak.
4. Staff will indicate the nature and location of the subject **matter [Application / issued Permit / Stop Order]** and the conclusions.
5. Staff will present the Staff report included in the Authority agenda.
6. The **Party** and/or their agent will present their material
7. Staff and/or the Conservation Authority's agent may question the **Party** and/or their agent (through the Chair) if reasonably required for a full and fair disclosure of matters presented at the Hearing.<sup>3</sup>
8. The **Party** and/or their agent may question the Conservation Authority Staff and/or their agent (through the Chair) if reasonably required for full and fair disclosure of matters presented at the Hearing.<sup>4</sup>
9. The Hearing Board will question, if necessary, both the Staff and the **Party/agent**.
10. The Hearing Board will move into deliberation. **The Hearing Board may also adjourn the hearing and retire in private to confer.** For electronic meetings, the Hearing Board will **deliberate in a manner consistent with practices for in-person hearings (e.g., open vs closed session).**
11. Members of the Hearing Board will move and second a motion.

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<sup>3</sup> As per the SPPA a tribunal may reasonably limit further examination or cross-examination of a Witness where it is satisfied that the examination or cross-examination has been sufficient to disclose fully and fairly all matters relevant to the issues in the proceeding.

<sup>4</sup> As per the SPPA a tribunal may reasonably limit further examination or cross-examination of a Witness where it is satisfied that the examination or cross-examination has been sufficient to disclose fully and fairly all matters relevant to the issues in the proceeding.

12. A motion will be carried which will culminate in the decision.
13. The Hearing Board will move out of deliberation. For electronic meetings, the Hearing Board will reconvene with other participants.
14. The Chairperson or Acting Chairperson will advise the **Party** of the Hearing Board decision.
15. The Chairperson or Acting Chairperson shall notify the **Party** of **their** right to appeal the decision to the Ontario Land Tribunal, Minister, or other prescribed body (as applicable) **upon receipt of the reasons for decision**, in accordance with the provisions and timelines outlined in the Conservation Authorities Act and Ontario Regulation 41/24 (*see sample Notices of Decision for more detail*).
16. Motion to move out of Hearing Board and sit as Full Authority.

## Appendix G

### **CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS** **(Section 28.1, Subsection 5 of the Conservation Authorities Act)** **Permit Application, with or without conditions**

We are now going to conduct a hearing under section 28.1, subsection 5 of the Conservation Authorities Act in respect of an application for a permit by [applicant name] to [details of proposed works].

Section 28.1, subsection 1 of the Conservation Authorities Act provides that an Authority may issue a permit to a person to engage in an activity that would otherwise be prohibited by section 28, subsection 1 of the Act, in an area regulated by the Authority, if in the opinion of the Authority, the activity is not likely to affect the control of flooding, erosion, dynamic beaches or unstable soil or bedrock; the activity is not likely to create conditions or circumstances that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property; and any other requirements that may be prescribed by the regulations are met.

Staff have reviewed this proposed work and prepared a staff report, a copy of which has been given to the applicant and the Board. The applicant was invited to file material in response to the staff report, a copy of which has also been provided to the Board.

Under section 28.1, subsection (5) of the Conservation Authorities Act, the person applying for a permit has the right to a hearing before the Authority.

In holding this hearing, the Authority is to determine whether or not a permit is to be issued, with or without conditions. In doing so, we can only consider the application in the form that is before us, the staff report, such evidence as may be given and the submissions to be made on behalf of the applicant. Only information disclosed prior to the hearing is to be presented at the hearing.

The proceedings will be conducted according to the Statutory Powers Procedure Act. Under section 9 of the Evidence Act and section 5 of the Canada Evidence Act, any witness called may object to answer any question on the ground that the answer may tend to incriminate the person or may tend to establish his/her liability to a civil proceeding at the instance of the Crown or of any person.

The procedure in general shall be informal without the evidence before it being given under oath or affirmation unless decided by the **Hearing Board**.

If the applicant has any questions to ask of the Hearing Board or of the Authority representative, they must be directed to the Chairperson of the board.

## Appendix H

### **CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS** **(Section 28.1.2, Subsection 7 of the Conservation Authorities Act)** **Mandatory Permits, Zoning Orders**

We are now going to conduct a hearing under **section 28.1.2, subsection 7** of the Conservation Authorities Act in respect of an application for a permit by [*applicant name*] to [*details of proposed works*].

Under section 28.1.2, subsection 3 of the Conservation Authorities Act, an Authority that receives an application for a permit to carry out a development project in the Authority's area of jurisdiction shall issue the permit if an order has been made by the Minister of Municipal Affairs and Housing under section 47 of the Planning Act authorizing the development project under that Act; and the lands in the Authority's area of jurisdiction on which the development project is to be carried out are not located in the Greenbelt Area designated under section 2 of the Greenbelt Act, 2005; and such other requirements as may be prescribed are satisfied.

Furthermore, section 28.1.2, subsection 6 allows an Authority to attach conditions to such permits, including conditions to mitigate: any effects the development project is likely to have on the control of flooding, erosion, dynamic beaches or unstable soil or bedrock; circumstances created by the development project that, in the event of a natural hazard, might jeopardize the health or safety of persons or result in the damage or destruction of property; or any other matters that may be prescribed by regulation.

Staff have reviewed this proposed work and prepared a staff report, **including the proposed conditions of approval for the proposed work**, which has been given to the applicant and the Board. The applicant was invited to file material in response to the staff report, a copy of which has also been provided to the Board.

**Under section 28.1.2, subsection 7** of the Conservation Authorities Act, the person **applying for a permit** has the right to a hearing before the Authority.

In holding this hearing, the Authority Board is to determine the prescribed conditions, if any, to be attached to the approved permit. In doing so, we can only consider the application in the form that is before us, the staff report, such evidence as may be given and the submissions to be made on behalf of the applicant. Only information disclosed prior to the hearing is to be presented at the hearing.

The proceedings will be conducted according to the Statutory Powers Procedure Act. Under **section 9 of the Evidence Act and section 5 of the Canada Evidence Act**, **any witness called** may **object** to answer any question on the ground that the answer may tend to incriminate the person or may tend to establish his/her liability to a civil proceeding at the instance of the

Crown or of any person.

The procedure in general shall be informal without the evidence before it being given under oath or affirmation unless decided by the hearing members.

If the applicant has any questions to ask of the Hearing Board or of the Authority representative, they must be directed to the Chairperson of the board.

DRAFT

## Appendix I

### CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS (Section 30.4, Subsection 6 of the Conservation Authorities Act) To Consider a Stop Order

We are now going to conduct a hearing under section 30.4, subsection 6 of the Conservation Authorities Act in respect to a Stop Order issued to [Party] on [Date], 20XX.

In accordance with section 30.4, subsection 1 of the Act, [NAME] was served with a Stop Order by an officer of the Authority because the officer believed [NAME] **[had engaged / was about to engage]** in an activity that **[has contravened/will contravene]** the Act or a regulation made under the Act; **and/or** the conditions of **Permit Number XXX**.

Furthermore, the officer believes that the activity **[has caused / is likely to cause]** significant damage and the damage **[affects / is likely to affect]** the control of flooding, erosion, dynamic beaches or unstable soil or bedrock **and/or** in the event of a natural hazard, the damage **has created / is likely** to create conditions or circumstances that might jeopardize the health and safety of persons or result in damage or destruction of property; and that, the order will prevent or reduce said damage.

Section 30.4, subsection 6 of the Act requires that a person who is served with a Stop Order be provided with an opportunity to request and attend a hearing before the Authority.

The Staff have prepared a report, a copy of which has been given to the [APPELLANT NAME] and the Board. The [APPELLANT NAME] was invited to file material in response to the staff report, a copy of which has also been provided to the Board.

In accordance with section 30.4, subsection 7 of the Act, after holding the hearing, the Authority shall confirm the order, amend the order, or remove the order with or without conditions. In doing so, we can only consider the information in the form that is before us, the staff report, such evidence as may be given, and the submissions to be made on behalf of [APPELLANT NAME]. Only information disclosed prior to the hearing is to be presented at the hearing.

The proceedings will be conducted according to the Statutory Powers Procedure Act. Under section 9 of the Evidence Act and section 5 of the Canada Evidence Act, any witness called may object to answer any question on the ground that the answer may tend to incriminate the person or may tend to establish his/her liability to a civil proceeding at the instance of the Crown or of any person.

The procedure in general shall be informal without the evidence before it being given under oath or affirmation unless decided by the hearing members.

If [APPELLANT NAME] has any questions to ask of the Hearing Board or of the Authority representative, they must be directed to the Chairperson of the board.

## Appendix J

### **CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS (Section 28.3, Subsections 4 of the Conservation Authorities Act) To Consider the Cancellation of a Permit**

We are now going to conduct a hearing under section 28.3, subsection 4 of the Conservation Authorities Act to consider the cancellation of permit number ## issued to [Permit Holder], on [Date], 20XX.

In accordance with section 28.3, subsection 1 of the Act, the Authority notified the permit holder of the intent to cancel permit number ### by [Date], 20## because, it is the opinion of the Authority, the conditions of the permit have not been met; **or** that the circumstances prescribed by regulation exist (**include detail here if applicable**).

Section 28.3, subsection 3 of the Act provides that a permit holder may request a hearing within 15 days of receiving the Authority's intent to cancel a permit.

The Staff have prepared a report, a copy of which has been given to the permit holder and the Board. The permit holder was invited to file material in response to the Staff report, a copy of which has also been provided to the Board.

In accordance with section 28.3, subsection 5 of the Act, after holding the hearing, the Authority may confirm, rescind or vary the decision to cancel the permit. In doing so, we can only consider the information in the form that is before us, the Staff report, such evidence as may be given, and the submissions to be made on behalf of the permit holder. Only information disclosed prior to the hearing is to be presented at the hearing.

The proceedings will be conducted according to the Statutory Powers Procedure Act. Under section 9 of the Evidence Act and section 5 of the Canada Evidence Act, any witness called may object to answer any question on the ground that the answer may tend to incriminate the person or may tend to establish his/her liability to a civil proceeding at the instance of the Crown or of any person.

The procedure in general shall be informal without the evidence before it being given under oath or affirmation unless decided by the hearing members.

If the permit holder has any questions to ask of the Hearing Board or of the Authority representative, they must be directed to the Chairperson of the board.

## Appendix K

## **CHAIRPERSON'S REMARKS WHEN DEALING WITH HEARINGS**

**(Section 11, Subsection 6 of Ontario Regulation 41/24, made pursuant to Section 40, Subsection 4 of the Conservation Authorities Act)**

### **To Consider an Extension to the Period of Validity of a Permit**

We are now going to conduct a hearing under section 11, subsection 6 of Ontario Regulation 41/24, made under section 40, subsection 4 of the Conservation Authorities Act regarding a request for extension of permit number ## issued to [*Permit Holder*].

Section 11, subsections 4 and 5 of Ontario Regulation 41/24 provides that a permit holder may request a hearing to consider their request to extend the period of validity of a permit issued under section 28.1 or 28.1.2 of the Act within 15 days of receiving notice that the Authority intends to refuse a request for extension.

The Staff have prepared a report, a copy of which has been given to the permit holder and the Board. The permit holder was invited to file material in response to the Staff report, a copy of which has also been provided to the Board.

In accordance with section 11, subsection 7 of the Regulation, after holding the hearing, the Authority may confirm the refusal of the extension or grant an extension for a time deemed appropriate, provided the total period of validity of the permit does not exceed the applicable maximum period of 60 months prescribed by Regulation. In doing so, we can only consider the information in the form that is before us, the Staff report, such evidence as may be given, and the submissions to be made on behalf of the permit holder. Only information disclosed prior to the hearing is to be presented at the hearing.

The proceedings will be conducted according to the Statutory Powers Procedure Act. Under section 9 of the Evidence Act and section 5 of the Canada Evidence Act, any witness called may object to answer any question on the ground that the answer may tend to incriminate the person or may tend to establish his/her liability to a civil proceeding at the instance of the Crown or of any person.

The procedure in general shall be informal without the evidence before it being given under oath or affirmation unless decided by the hearing members.

If the permit holder has any questions to ask of the Hearing Board or of the Authority representative, they must be directed to the Chairperson of the board.



## Appendix L

### Sample Notice of Decision (Refusal / Attaching Conditions)

(Date)

**BY REGISTERED MAIL**

(name)

(address)

Dear:

**RE: NOTICE OF DECISION**

**Hearing Pursuant to Section 28.1, Subsection 5 of the Conservation Authorities Act**

**Proposed Residential Development**

**Address, Lot , Plan, Municipality**

**[Application #]**

In accordance with the requirements of the Conservation Authorities Act, the **Saugeen Valley Conservation Authority** provides the following Notice of Decision:

On [meeting date], the Authority [refused application/approved application/approved application with conditions]. A copy of the Authority resolution has been attached for your records. Please note that this decision is based on the following reasons:

**[Provide specific and clear reasons for refusal or attaching conditions relevant to the application in accordance with ss. 28.1 (7) of the Act]**

In accordance with s. 28.1 of the Conservation Authorities Act, an applicant who has been refused a permit or a permit holder who objects to conditions imposed on a permit by the Authority may submit a request for a Minister's Review of this decision to the Minister of Natural Resources, or may appeal this decision to the Ontario Land Tribunal. These options are further described below:

1. Within 15 days of receiving the reasons for the Authority's decision, submit a request to the Minister to review the Authority's decision. If a request for a Minister's review is submitted, the Minister will indicate in writing whether or not they intend to conduct a review of the Authority's decision. This notice will be provided within 30 days of receiving the request. If the Minister does not reply within 30 days, this is deemed to be an indication that the Minister does not intend to review the Authority's decision.

The Minister may, in accordance with section 28.1 (15) of the Act, confirm or vary the Authority's decision, or make any decision the Minister considers appropriate, including issuing a permit subject to conditions. Per subsection 28.1(19) of the *Conservation Authorities Act*, a decision made by the Minister is final; or,

2. Appeal to the OLT within 90 days of receiving the reasons for the Authority's decision, provided that:
  - a. the applicant/permit holder has not submitted a request for Minister's review; or,
  - b. the applicant/permit holder has submitted a request for Minister's review, and;
    - i. the Minister refused to conduct a review further to a request made under ss. 28.1 (8) of the Act; or,
    - ii. 30 days have lapsed since the applicant/permit holder submitted a request for Minister's review and the Minister has not replied; or,
    - iii. If, further to a request for review made under ss. 28.1 (8) of the Act, the Minister indicates their intent to review a decision and the Minister fails to make a decision within 90 days of giving the reply, the applicant/permit holder may, within the next 30 days, appeal the Authority's decision directly to the OLT.

For your information, should you wish to exercise your right for a Minister's review or appeal to the OLT, your requests can be forwarded to:

**For Minister's Review:**

Hon. Todd MacCarthy  
College Park, 5th Floor, 777 Bay St  
Toronto, Ontario M7A 2J3  
Phone: 416-314-6790  
Email: [minister.mecp@ontario.ca](mailto:minister.mecp@ontario.ca)

**For Appeal to Ontario Land Tribunal:**

Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto ON M5G 1E5  
Phone: 416-212-6349 or 866-448-2248  
Email: [OLT.General.Inquiry@ontario.ca](mailto:OLT.General.Inquiry@ontario.ca)  
[Information on Filing an Appeal Link](#)

A copy of this request should also be sent to this Conservation Authority. Should you require any further information, please do not hesitate to contact [**staff contact**] or the undersigned.

Yours truly,

General Manager / Secretary-Treasurer  
Enclosure

## Appendix M

### Sample Notice of Decision (Attaching Conditions, Minister's Zoning Order Permits)

(Date)

**BY REGISTERED MAIL**

(name)

(address)

Dear:

**RE: NOTICE OF DECISION**

**Hearing Pursuant to Section 28.1.2, Subsection 7 of the Conservation Authorities Act  
Proposed Residential Development  
Address, Lot , Plan, Municipality  
[Application #]**

In accordance with the requirements of the Conservation Authorities Act, the Saugeen Valley Conservation Authority provides the following Notice of Decision:

On [meeting date], the Authority approved permit number ### [with conditions / without conditions]. A copy of the Authority resolution has been attached for your records. Please note that this decision is based on the following reasons:

***[Provide specific and clear reasons for attaching conditions relevant to the application in accordance with ss. 28.1.2 (8) of the Act]***

In accordance with the Conservation Authorities Act, a permit holder who objects to conditions imposed on a permit by the Authority may submit a request for a Minister's Review of this decision to the Minister of Natural Resources, or may appeal this decision to the Ontario Land Tribunal. These options are further described below:

1. Within 15 days of receiving the reasons for the Authority's decision, submit a request to the Minister to review the conditions. If a request for a Minister's review is submitted, the Minister will indicate in writing whether or not they intend to conduct a review of the conditions. This notice will be provided within 30 days of receiving the request. If the Minister does not reply within 30 days, this is deemed to be an indication that the Minister does not intend to review the Authority's decision.

The Minister may, in accordance with section 28.1.2 (11) of the Act, confirm or vary the conditions attached by the Authority to a permit, including removing conditions or requiring that such additional conditions be attached to the permit as the Minister considers appropriate. Per subsection 28.1.2 (13) of the *Conservation Authorities Act*, a decision made by the Minister is final; or,

2. Appeal to the OLT within 90 days of receiving the reasons for the Authority's decision, provided that:
- a) the permit holder has not submitted a request for Minister's review; or,
  - b) the permit holder has submitted a request for Minister's review, and;
    - i. the Minister refused to conduct a review further to a request made under ss. 28.1.2 (9) of the Act; or,
    - ii. 30 days have lapsed since the permit holder submitted a request for Minister's review and the Minister has not replied; or,
    - iii. If, further to a request for review made under ss. 28.1.2 (9) of the Act, the Minister indicates their intent to review a decision and the Minister fails to make a decision within 90 days of giving the reply, the permit holder may, within the next 30 days, appeal the conditions attached by the Authority directly to the OLT.

For your information, should you wish to exercise your right for a Minister's review, or appeal to the OLT, your requests can be forwarded to:

**For Minister's Review:**

Hon. Todd MacCarthy  
College Park, 5th Floor, 777 Bay St  
Toronto, Ontario M7A 2J3  
Phone: 416-314-6790  
Email: [minister.mecp@ontario.ca](mailto:minister.mecp@ontario.ca)

**For Appeal to Ontario Land Tribunal:**

Ontario Land Tribunal  
655 Bay Street, Suite 1500  
Toronto ON M5G 1E5  
Phone: 416-212-6349 or 866-448-2248  
Email: [OLT.General.Inquiry@ontario.ca](mailto:OLT.General.Inquiry@ontario.ca)  
[Information on Filing an Appeal Link](#)

A copy of this request should also be sent to this Conservation Authority. Should you require any further information, please do not hesitate to contact [**staff contact**] or the undersigned.

Yours truly,

General / Secretary-Treasurer  
Enclosure

## Appendix N

### Sample Notice of Decision (Stop Order)

(Date)

**BY REGISTERED MAIL**

(name)

(address)

Dear:

**RE: NOTICE OF DECISION**

**Hearing Pursuant to Section 30.4, Subsection 6 of the Conservation Authorities Act  
Stop Order**

**Address, Lot , Plan, Municipality**

**[Application # or Permit #]**

**[Stop Order #]**

In accordance with the requirements of the Conservation Authorities Act, the Saugeen Valley Conservation Authority provides the following Notice of Decision:

On [meeting date and number], the Authority [confirmed the Stop Order, amended the Stop Order, or removed the Stop Order, with or without conditions]. A copy of the Authority resolution has been attached for your records. Please note that this decision is based on the following reasons:

***[Provide specific and clear reasons for confirming, amending, or removing the order, with or without conditions in accordance with ss. 30.4 (8)]***

In accordance with the Conservation Authorities Act, the person who requested the hearing may appeal to the Minister for a review within 30 days after receiving the reasons for the Authority's decision. The Minister (or other prescribed body) may confirm, amend or remove the Stop Order, with or without conditions.

For your information, should you wish to exercise your right for a Minister's review, your request can be forwarded to:

Hon. Todd MacCarthy  
College Park, 5th Floor, 777 Bay St  
Toronto, Ontario M7A 2J3  
Phone: 416-314-6790  
Email: [minister.mecp@ontario.ca](mailto:minister.mecp@ontario.ca)

A copy of this request should also be sent to this Conservation Authority. Should you require any further information, please do not hesitate to contact [**staff contact**] or the undersigned.

Yours truly,

General Manager / Secretary-Treasurer  
Enclosure

## Appendix O

### Sample Notice of Decision (Cancellation of Permit)

(Date)

**BY REGISTERED MAIL**

(name)

(address)

Dear:

**RE: NOTICE OF DECISION**

**Hearing Pursuant to Section 28.3 , Subsections (2), (3), and (4) of the Conservation Authorities Act**

**Cancellation of Permit**

**Address, Lot , Plan, Municipality**

**[Permit Number]**

In accordance with the requirements of the Conservation Authorities Act, the Saugeen Valley Conservation Authority provides the following Notice of Decision:

On [meeting date and number] the Authority [confirmed / rescinded / varied] the decision to cancel permit number ##. A copy of the Authority resolution has been attached for your records. Please note that this decision is based on the following reasons:

***[Provide specific and clear reasons for confirming, rescinding or varying the decision to cancel the permit, in accordance with ss. 28.3 (5) of the Conservation Authorities Act]***

In accordance with the Conservation Authorities Act, the permit holder may, within 90 days after receiving the reasons for the Authority's decision, appeal the decision to the Ontario Land Tribunal (OLT). The OLT has the authority to take evidence, to confirm, rescind or vary the decision to cancel the permit, with or without conditions.

For your information, should you wish to exercise your right to appeal, section 28.3, subsection 7 of the Act requires that the notice shall be sent to the OLT and to the Authority by registered mail.

**Ontario Land Tribunal**

655 Bay Street, Suite 1500

Toronto ON M5G 1E5

Phone: 416-212-6349 or 866-448-2248

Email: [OLT.General.Inquiry@ontario.ca](mailto:OLT.General.Inquiry@ontario.ca)

[Information on Filing an Appeal Link](#)

Should you require any further information, please do not hesitate to contact [**staff contact**] or the undersigned.

Yours truly,

General Manager / Secretary-Treasurer

Enclosure



## Appendix P

### Sample Notice of Decision (Permit Extension)

(Date)

**BY REGISTERED MAIL**

(name)

(address)

Dear:

**RE: NOTICE OF DECISION**

**Hearing Pursuant to Section 11, Subsections 4, 5, and 6 of O. Reg. 41/24, pursuant to Section 40, Subsection 4 of the Conservation Authorities Act**

**Request for Permit Extension**

**Address, Lot , Plan, Municipality**

**[Permit Number]**

In accordance with the requirements of the Conservation Authorities Act, the Saugeen Valley Conservation Authority provides the following Notice of Decision:

On [meeting date and number], the Authority [confirmed the refusal of the permit extension / granted the permit extension]. Permit number ## shall be valid until [Date], 20##. A copy of the [Authority/Executive Committee] resolution has been attached for your records. Please note that this decision is based on the following reasons:

***[Provide specific and clear reasons relating to the application for refusing or granting the extension, if applicable. In either case, it is best practice to relate the decision to the Conservation Authorities Act tests in ss. 28.1 (1), and ss. 11 (7) of O. Reg. 41/24]***

For your information, the Authority's decision is final; there is no legislated appeal process under the *Conservation Authorities Act*.

Should you require any further information, please do not hesitate to contact [staff contact] or the undersigned.

Yours truly,

General Manager / Secretary-Treasurer  
Enclosure

## Appendix E: Slope Stability Assessment Guidelines

DRAFT



# Slope Stability Assessment Guidelines

August 25, 2016

Prepared by: B. Singh, M.A.Sc., P. Eng., Principal Terraprobe Inc.

11 Indell Lane Brampton, Ontario L6T 3Y3

# Contents

<b>1.0</b>	<b>Introduction .....</b>	<b>3</b>
<b>2.0</b>	<b>Typical Slope Features and Terminology.....</b>	<b>4</b>
<b>3.0</b>	<b>Slope Instability – Risks and Implications .....</b>	<b>5</b>
3.1	<i>Typical Signs of Slope Instability .....</i>	7
3.2	<i>Stable Slope Allowance .....</i>	9
<b>4.0</b>	<b>Erosion .....</b>	<b>10</b>
4.1	<i>Erosion Features .....</i>	11
4.1.1.	Rills and Gully Erosion .....	11
4.1.2.	Piping Erosion .....	12
4.1.3.	Streambank Erosion .....	13
4.1.4.	Shoreline Bluff / Wave Erosion .....	14
4.2	<i>Toe Erosion Allowance River Slope .....</i>	15
4.3	<i>Erosion Access Allowance .....</i>	17
<b>5.0</b>	<b>Long-term Stable Slope Crest .....</b>	<b>18</b>
<b>6.0</b>	<b>Erosion Hazard Limit .....</b>	<b>19</b>
<b>7.0</b>	<b>Geotechnical Report – Terms of Reference.....</b>	<b>21</b>

## 1.0 Introduction

The Ministry of Natural Resources defines natural hazards as “natural, physical environmental process that occurs near or at the surface of the earth (that) can produce unexpected events of unusual magnitude or severity”.

One of the natural hazards as identified in MNR is the Erosion Hazard. The erosion hazard refers to the loss of land due to human or natural processes that poses a threat to life and/or property. The erosion hazard for a development is established for the long-term planning horizon, typically a one hundred-year time span. The determination of Erosion Hazard Limit is required for developments both near the stream valley corridors and shorelines of Great Lakes.

The natural valley systems in a stream corridor environment can either be a Defined Valley System or an Undefined Valley System. In a defined valley system the watercourse flows through a valley system confined by valley walls while in case of an undefined valley system the landscape is relatively flat, and the river or stream is not confined or bounded by any discernable valley walls.

The Erosion Hazard Limit associated with a slope in a defined or confined stream corridor environment is generally established based on the Toe Erosion Allowance, Stable Slope Allowance and Erosion Access Allowance. The toe erosion allowance is determined by using the 100-year erosion rate (the average annual rate of recession extended over the development planning horizon – typically a hundred-year time span) or default a value included in the Table 3 of Technical Guide MNR, River & Stream Systems: Erosion Hazard Limit. The stable slope allowance is a setback related to potential slope stability issues of the valley walls (slope) through which a river or stream flows (typically a 3 horizontal to 1 vertical setback is applied – in absence of a site-specific study). The erosion access allowance is provided at the top of the slope (tableland) in consideration of potential access required to the slope during emergencies or for maintenance. The erosion hazard limit for an unconfined valley system is determined based on flooding hazard limit OR meander belt allowance (20 times the bankfull channel width centred over the meander belt axis) OR as determined by a valid study, plus the erosion access allowance.

The Erosion Hazard Limit for shoreline slopes is typically determined based on Stable Slope Allowance (as described above) and 100-year recession OR Erosion Allowance where there is no reliable recession information (the province suggests a default setback distance to allow for 30 metre erosion allowance along the Great Lakes).

New developments are generally directed to be outside of the Erosion Hazard Limit to avoid natural risks associated with the slope instability and erosion hazards. A site-specific slope stability assessment and an erosion study (geomorphic or coastal, as applicable) may result in a lesser hazard limit than the one calculated based on the generalized and default setbacks.

The MNR policy guidelines for stable slopes typically apply to slopes over 2 meter in height and an inclination steeper than 3 horizontal to 1 vertical.

## 2.0 Typical Slope Features and Terminology

Slopes occur in many environments such as pits and quarries, shoreline bluffs, and river valleys. A slope in geological terms represents an inclined landform with an elevation relief along its profile. The slopes are natural and manmade:

**Natural Slopes:** Slopes formed by geological events (i.e., weathering, erosion, depositions)

**Man-made Slopes:** Artificial slopes constructed by humans; typically by cutting or filling (example, earth dams, earth berms, excavation slopes)

A typical slope consists of a slope toe (the point of lowest elevation along the slope profile), slope crest (the point of highest elevation along the slope profile) and the inclined surface with elevation relief along the profile. The landforms beyond the slope crest and the slope toe of a well-defined slope are relatively flat and are known as tableland and floodplain (if a slope is associated with a watercourse valley system), respectively.

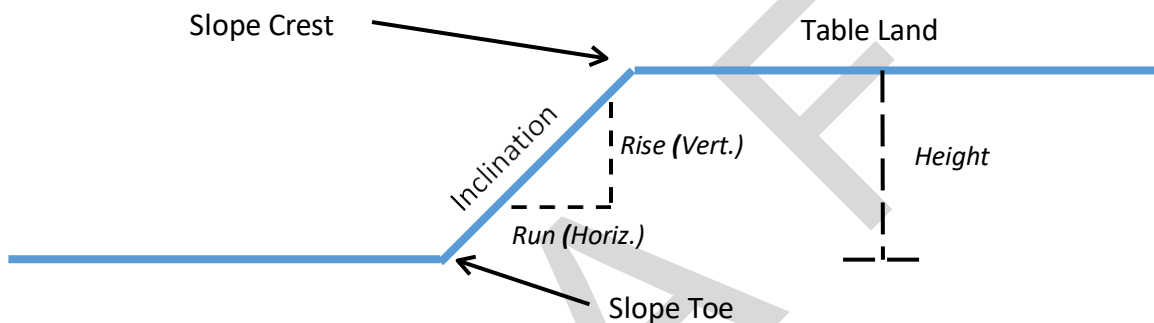


Figure 1 Slope Terminology

### 3.0 Slope Instability – Risks and Implications

Slope instability (commonly referred to as a 'slope failure of slope slide') can result in a sudden movement or sliding of a large mass of soil over a failure plane (also called slip plane) resulting in ground loss, that could affect structures or natural features at the top or bottom of the slope. Slope movements tend to occur rapidly, when compared to erosion processes. The slope movement often leaves a 'scarp' at the top of the slope movement area and a slumped ground below.

The slope movement could lead to loss of ground support and damage to property, buildings, roads, buried utilities, or to siltation or blockage of rivers (creeks or channels) and local flooding, damage to human life & livestock. Slope instability implications could be significant and may have legal implications and liabilities for review and enforcement authorities. Despite increased understanding and advancement in prediction and mitigation, worldwide slope failures are increasing, likely due to increased urbanization and development in slide prone areas, continued deforestation, and increased precipitation through climate change.

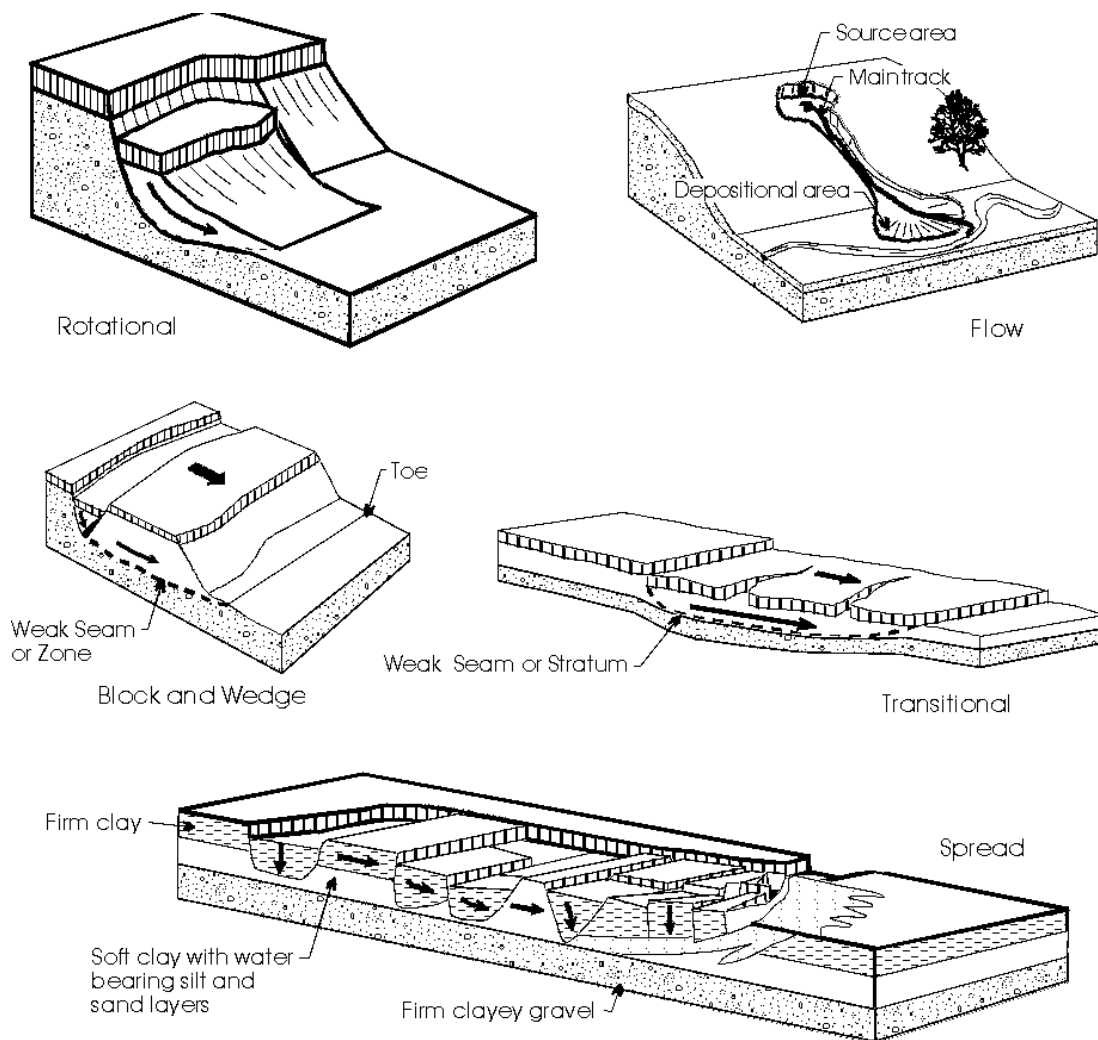
In view of the safety and potential liability issues associated with slope movements, it is important that there be awareness and recognition of slope stability principles. This is reflected by requirements for geotechnical engineering reports on slope stability in various government regulations including the Aggregate Resources and Petroleum Act, the National Building Code (building departments), and by policies of local conservation authorities and municipal planning authorities.

Through prolonged natural weathering, most slopes tend to achieve a stable inclination and vegetation cover. Changes or disturbances to the slope conditions can result in slope slides when a slope is attempting to achieve a more stable and flatter inclination. The instability is primarily driven by gravity, hence, the slope inclination or the steepness, has the greatest effect on its stability. Steep slopes are most susceptible or vulnerable to failure, even if there are relatively minor changes in other variables (loading, undercutting, wet weather). Flatter slopes tend to be affected less by changes in these other variables.

The stability of a slope depends on slope height and inclination, slope soil types, soil strengths, and ground water conditions. Decrease in soil strength caused by increase in ground water level, weathering, shocks and vibrations can also have a potential to trigger instability. The potential instability of a slope for the long-term planning horizon can be determined by a professional engineer based on visual inspection, and a limited or a detailed investigation - as deemed appropriate based on-site specific considerations. Factors of safety of 1.5 for normal ground water level (long-term condition) and 1.3 for elevated ground water level (temporary condition) are typically required to establish stable slope inclination.

Slope movement or instability can occur in many ways, such as rotational, flow, block and wedge, transitional, spread (refer to Figure 2), but is generally the result of:

- changes in slope configuration, such as height, steepness or inclination,
- increases in loading on a slope, such as structures or filling near the crest,
- changes in drainage of the soil which create higher water levels or water pressures, such as heavy rainfall, blocked drainage, broken watermain etc.
- loss of vegetation, and
- seismic events.



*Figure 2 Typical slope movements*

The presence of vegetation cover on a slope surface is critical and a primary defence against surficial soil erosion. By reducing the surface erosion, the likelihood of shallow slope instability is also decreased. The vegetation cover provides the long term protection against surface erosion and shallow translational slope slides by:

- holding, binding, or reinforcing the soil with a root system,
- removing water from the soil by uptake and transpiration,
- reducing run-off flow velocity,
- reducing frost penetration,
- buttressing or reinforcing action of large tree roots.

Urbanization and land development activities, fill placement near slope crests and excavations into slopes (or retaining walls) may alter the stability of shorelines, valleys, and sloping ground. Filling is a common practice in most urban areas to reclaim more usable flat tableland along existing slope crest. This fill placement often occurs in an uncontrolled manner (sometimes over an extended period of time) and may result in an unstable fill mass which eventually may experience movement, particularly related to heavy precipitation and high groundwater events. Slides within fill materials (placed in an uncontrolled manner without engineering design and supervision) can be



unpredictable and extensive. The resulting instability may occur through the fill materials only or through both fill and the underlying native soil (depending upon the native soil strength characteristics). However, filling on slopes if approved by applicable authorities, can be carried out in a safe and stable manner with suitable design, control, precautions and construction under the supervision of a qualified geotechnical engineer.

### **3.1 Typical Signs of Slope Instability**

Sometimes there may be precursor(s) preceding a slope failure. The following information includes some of the typical slope instability signs. These signs may indicate that a slope slide is possible however the timing of the actual slide is often very difficult to predict. Experience indicates that a slide is relatively more likely to take place during or after heavy precipitation event. There may be other, or no evidence of slope instability at all, prior to a slope slide depending upon the site-specific conditions.

#### **Bare Slope Areas (no vegetation)**

Lack or loss of vegetation is a typical sign of over-steepened slope. Vegetation establishment is relatively difficult on steep slopes (generally steeper than 2 horizontal to 1 vertical). A recent formation of bare area or loss of vegetation on a slope may indicate a slump, soil erosion or formation of an over-steepening zone.



*Figure 3 Bare slope areas*

#### **Bent Tree Trunks**

Bent and bowed trees may be due to slope soil creep; however, it may also be due to initial root development and twisting or bowing growth in response to reaching for sunlight.



*Figure 4 Bent tree trunks*

### **Tension Cracks**

A tension crack formation close to the top of slope may indicate a pending slope failure. A tension crack is a void that generally runs parallel to the slope face. It can significantly affect the future stability of the slope because a crack filled with water reduces the stability due to the hydrostatic pressure. The ice formation within the crack during sub-zero temperature expands and loosens the slope soil in the vicinity, increasing risk of future slope movement.



*Figure 5 Tension cracks*

### **Irregular Slope Surfaces, Slumps, Scarps, Bumps, Bulges**

A presence of irregular slope surfaces such as slumps, scarps, bumps, bulges, etc. generally indicate a soil movement. Slumps and scarps result in an over-steepened (even near vertical) and bare zone at the 'head' or 'crown' where the sliding mass has separated from the slope. A slump or slide may also result in tension cracks above the slide.



*Figure 6 Irregular slope surfaces, slumps, scarps, bumps, bulges*

### **Other Indicators**

Some other slope instability indicators may include displaced posts/fences, poles, monuments, guardrails, broken/displaced retaining walls, and stairs.



*Figure 7 Other indicators of slope instability*

### **3.2 Stable Slope Allowance**

A stable slope allowance (setback) is applicable for slopes with a potential instability risk(s) over the planning horizon. The stable slope allowance is a setback that is applied to address and account for potential slope instability risk to the development over the planning horizon. A stable slope allowance of 3 horizontal to 1 vertical is applied in absence of a site specific study. A site-specific slope stability assessment may however result in a steeper stable slope inclination (lesser setback) than the one calculated based on the default setback value (3 horizontal to 1 vertical).

A generalized procedure to determine the Stable Slope Allowance (S.S.A.), a component of the total erosion hazard zone, is illustrated in the following flow chart:



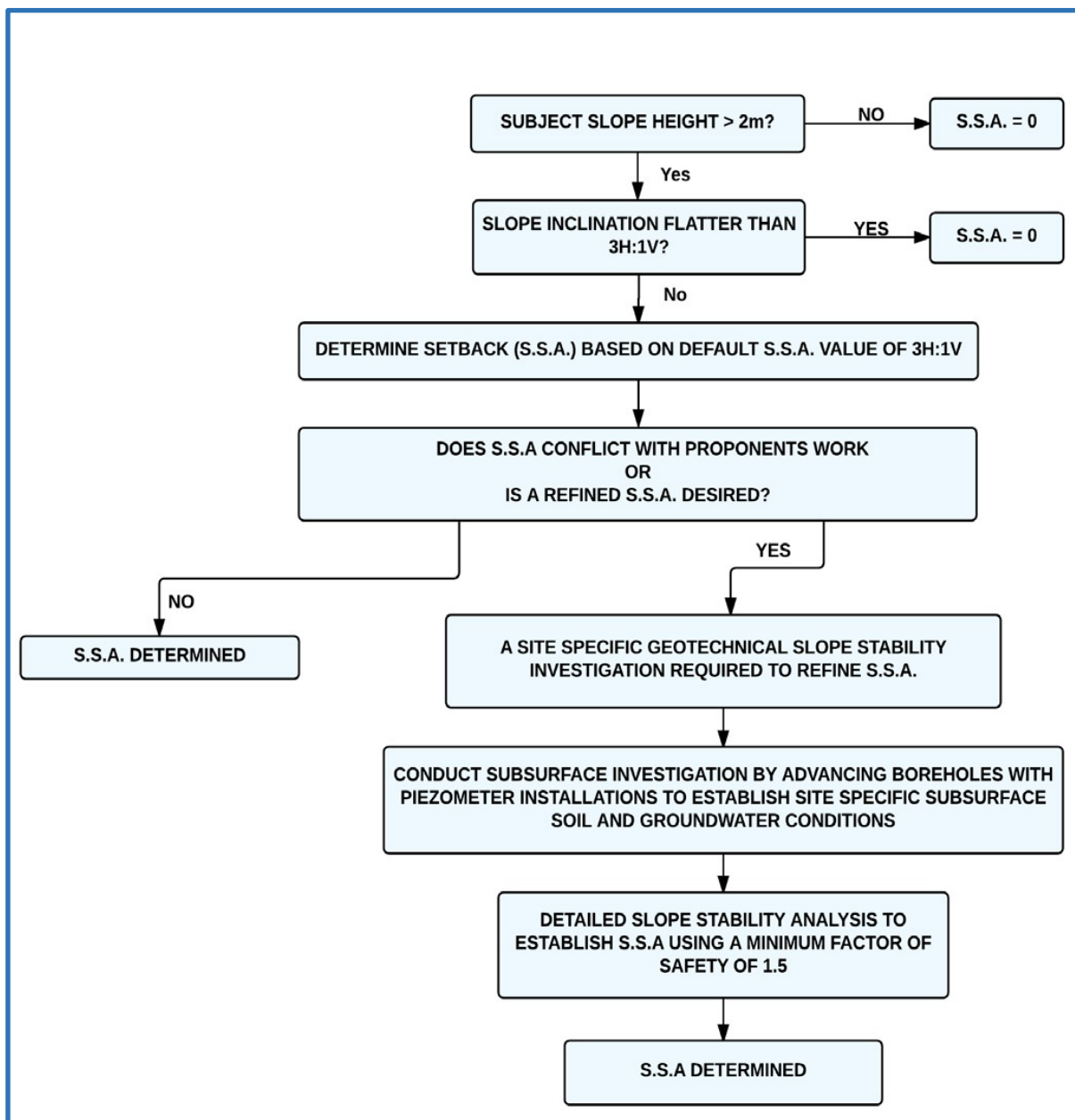


Figure 8 Determining the stable slope allowance

## 4.0 Erosion

The erosion process affects the soil at the particle level, by dislodging and removing (transporting) the soil particles from the parent mass (with water movement as the agent). Other processes such as wind and frost may assist in the weathering or dislodging and transport of soil particles. Erosion, in context of slopes, is generally a process of gradual washing away of soil by water movement or seepage. Erosion generally occurs in one of the following manners:

- rainfall or snowmelt and surface run-off (sheet or rill or gully erosion),
- internal seepage (springs) and piping,
- water flow (banks or base of river, creek, channel),
- wave action (shorelines of ponds, lakes, bays).

Slope instability and erosion are two, often associated but completely different processes which may or may not occur together. Erosion is the loss of soil at the ground surface, while slope failures consist of a large mass of soil sliding along a planar surface. One very common event is the 'toe erosion' that can trigger slope instability, due to steepening or undercutting of the slope.

Water action and erosion (by flowing water or waves) are integral to slope instability. Slope slides may be caused by undercutting or steepening of the slope toe (removing support for the slope). Water seepage or groundwater levels can also affect slope stability since they affect the slope properties.

#### **4.1 Erosion Features**

The erosion features may consist of (including but not limited to) the following:

- Rills and Gully Erosion,
- Piping Erosion,
- Streambank Erosion,
- Shoreline Bluff / Wave Erosion

##### **4.1.1. Rills and Gully Erosion**

Gully development is common on high bluff shorelines along the Great Lakes, and along river valleys where surface drainage may become concentrated. The process begins with the accumulation or concentration of surface run-off in narrow surficial channels (rills), which then experience progressive erosion and the formation of larger channels or gullies. The gully erosion process is attributed to downcutting of the gully base by swiftly flowing water and slumping or failure of the gully banks (causes the gully to become wider). The typical gully erosion process is summarized as follows;

- sufficient run-off drainage to disrupt natural vegetation cover,
- establishment of a drainage channel and start of downcutting,
- channel banks steepen by continuing base erosion, until slope failure
- gully widens with slope slides, and debris interrupts downcutting,
- cycle of downcutting and slumping is repeated after debris is washed away and downcutting resumes,
- gully can mature once stable gradient is achieved by drainage flows.



*Figure 9 Rill erosion*



*Figure 10 Gully erosion*

Erosion of the gully base followed by slumping of the side-slopes, results in the gully slope crest receding and the loss of table land. The erodibility (erosion) is influenced predominantly by the nature of the soil, and by the slope gradient (steepness). Strongly bonded 'cohesive' soils (clays, clayey silts, tills) are generally less erodible than 'cohesionless' soils (sands, silts).

#### **4.1.2. Piping Erosion**

'Piping' on a slope face can be related to 'springs' or seepage, where soil erosion occurs in water bearing sands on slopes. As water drains from a sand layer on the slope face, the flow sometimes dislodges and transports (erodes) the sand particles away from the parent soil mass, leaving voids termed 'pipes'. The most susceptible location for piping to occur is near the bottom of a sand layer where the underlying soil is much less permeable than the sand (silt, clay, till, rock).



*Figure 11 Piping erosion*

#### **4.1.3. Streambank Erosion**

Streambank erosion is caused by flowing water in rivers, creeks, and streams resulting in surface erosion of the bank or channel. The toe erosion results in steepening (undercutting) of the lower portion of the slope thus making the slope unstable. The lower over-steepened portion slumps to attain a relatively stable configuration but in turn makes the upper (unslumped) portion of the slope steep and unstable resulting in progressive slumping. The streambank erosion is usually due to increased flow velocities from climatic events such as heavy rains or snowmelt. Locations which are particularly susceptible to riverbank erosion, are where the river abuts the slope and changes flow direction such as the outside of 'meanders' or bends in the river alignment.

Streambank erosion primarily consists of the following:

**Active Erosion:** Bank material exposed directly to stream flow under normal or flood flow conditions where undercutting, over-steepening, slumping of a bank or downstream sediment loading is occurring.

**No evidence of Active Erosion:** An area may have erosion, but there may not be evidence of 'active erosion', either as a result of well rooted vegetation or as a result of a condition of net sediment deposition. The area may still experience erosion at some point in the future as a result of shifting of the channel.

The most important initial step in stabilization of river erosion is to ensure that the slope toe is suitably protected from the water flow velocity, prior to undertaking slope stabilization works.



#### Active Erosion (Bedrock)



#### Active Erosion & Slumping (overburden)



*Figure 12 Examples of active streambank erosion*

#### No Active Erosion

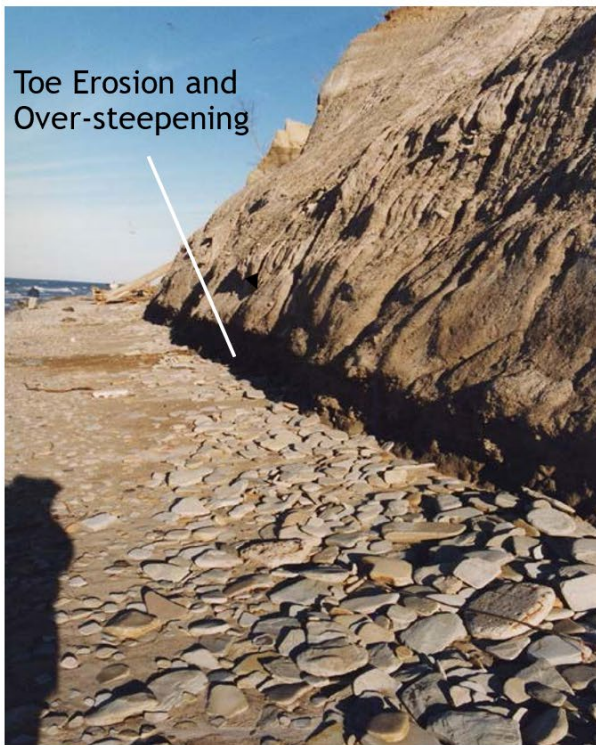


*Figure 13 Example without streambank erosion*

#### 4.1.4. Shoreline Bluff / Wave Erosion

Wave action at the slope toe of Shoreline bluffs undercuts the slope toe resulting in cycles of erosion and slope instability. The slumping leads to crest recession (loss of table land). Toe erosion may start when lake levels rise and cover previous beach areas along the bluff toe. This allows wave action to undercut and locally over-steepen the slope toe. Similar to gully and river erosion, this toe undercutting initially triggers the loss of vegetation cover near the slope toe, which progressively spreads up the slope face. The lower over-steepened portion slumps to attain a comparatively stable configuration but in turn over-steepens the portion above the slump. This upper over-steepened portion then slumps resulting in a progressive slumping approaching the slope crest and hence the loss of tableland.





*Figure 14 Examples of toe erosion*

The most important initial step in stabilization of bluff erosion is to ensure that the slope toe is protected from wave action (where possible), prior to undertaking slope works. Any shore protection works should consider possible effects on the littoral system and sediment transport.

#### **4.2 Toe Erosion Allowance River Slope**

The toe erosion allowance (setback) for a river slope ensures safety if the toe of the slope adjacent to the river or stream erodes and weakens the bank, increasing the risk of slumping. The setback is determined by one of the four following methods:

Average annual recession rate (25 years of data extended over a 100-year horizon)

- 15 metre toe erosion allowance where the distance between the watercourse and the base of the valley wall is 15 meters or less
- Toe erosion allowance based on soil types and hydraulic processes where the watercourse is 15 meters or less from the base of the valley wall
- Study using accepted geotechnical & engineering principles on a minimum of 25 years of record or data

Table 3: Determination of Toe Erosion Allowance				
MINIMUM TOE EROSION ALLOWANCE - River Within 15 m of Slope Toe*				
Type of Material Native Soil Structure	Evidence of Active Erosion** OR Bankfull Flow Velocity > Competent Flow Velocity***  RANGE OF SUGGESTED TOE EROSION ALLOWANCES	No evidence of Active Erosion** OR Bankfull Flow Velocity <Competent Flow Velocity***		
		Bankfull Width		
		< 5m	5-30m	> 30m
1.Hard Rock (granite) *	0 - 2 m	0 m	0 m	1 m
2.Soft Rock (shale, limestone) Cobbles, Boulders *	2 - 5 m	0 m	1 m	2 m
3.Stiff/Hard Cohesive Soil (clays, clay silt), Coarse Granular (gravels) Tills *	5 - 8 m	1 m	2 m	4 m
4.Soft/Firm Cohesive Soil, loose granular, (sand, silt) Fill *	8 - 15 m	1-2 m	5 m	7 m

\*Where a combination of different native soil structures occurs, the greater or largest range of applicable toe erosion allowances for the materials found at the site should be applied

\*\***Active Erosion** is defined as: bank material is exposed directly to stream flow under normal or flood flow conditions where undercutting, oversteepening, slumping of a bank or down stream sediment loading is occurring. An area may have erosion but there may not be evidence of 'active erosion' either as a result of well rooted vegetation or as a result of a condition of net sediment deposition. The area may still suffer erosion at some point in the future as a result of shifting of the channel. The toe erosion allowances presented in the right half of Table 3 are suggested for sites with this condition. See Step 3.

\*\*\***Competent Flow Velocity** is the flow velocity that the bed material in the stream can support without resulting in erosion or scour. For *bankfull width* and *bankfull flow velocity*, see Section 3.1.2.

Figure 15 Determining toe erosion allowance using table 3 from MNR Technical Guide, River & Stream Systems: Erosion Hazard Limit

A generalized procedure to determine the Toe Erosion Allowance in a stream corridor environment, a component of the total erosion hazard zone, is illustrated in the flow chart in Figure 16:

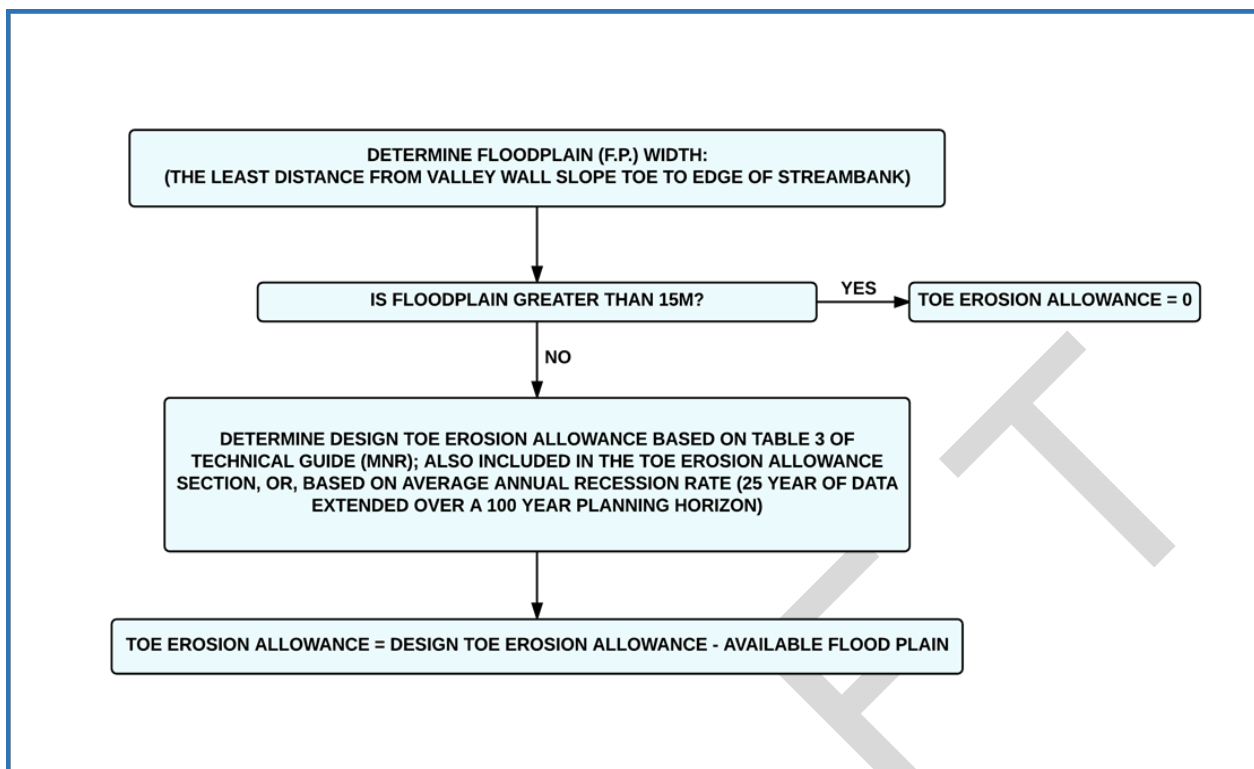


Figure 16 Flow chart to determine the Toe Erosion Allowance in a stream corridor environment

### Shoreline/Bluff Slope

Erosion setback for shoreline/Bluff slopes is determined based on Average Annual Recession rate. The average annual recession rate is an average rate of erosion of the shoreline per year for a site where there is at least 35 years of reliable recession information is available.

Where there is no reliable recession information, the province suggests a setback distance to allow for 30- metre Erosion Allowance along the Great Lakes.

### 4.3 Erosion Access Allowance

Erosion Access Allowance is the setback required to ensure that there is an adequate safety zone for people and vehicles to enter and exit an area during an emergency, such as a slope failure or flooding. This is one of the components used to determine the landward limit of the erosion hazard and is applied for both confined and unconfined systems.

The erosion access allowance is provided to facilitate:

- access during emergencies,
- regular maintenance and construction access to repair failed structures, and
- protection from external events that affect an erosion prone area.

The suggested minimum erosion access allowance for river and stream systems is 6 metres 40 but allows for planning boards or municipalities to have flexibility. The erosion access allowance also helps connect green space, bicycle paths, natural habitat, and acts as a buffer. The 6 m allowance was originally designed to allow two-way traffic of large vehicles.

## 5.0 Long-term Stable Slope Crest

The long-term Stable Slope Crest (LTSSC) is the location on the tableland which is determined based on both the Stable Slope Allowance and Toe Erosion Allowance (as applicable). This location represents the worst-case scenario of the physical top of slope/slope crest recession over the long-term planning horizon (100 year). A Long-term Stable Slope Crest model illustrating the methodology to determine LTSSC position is presented in Figure 17 below:

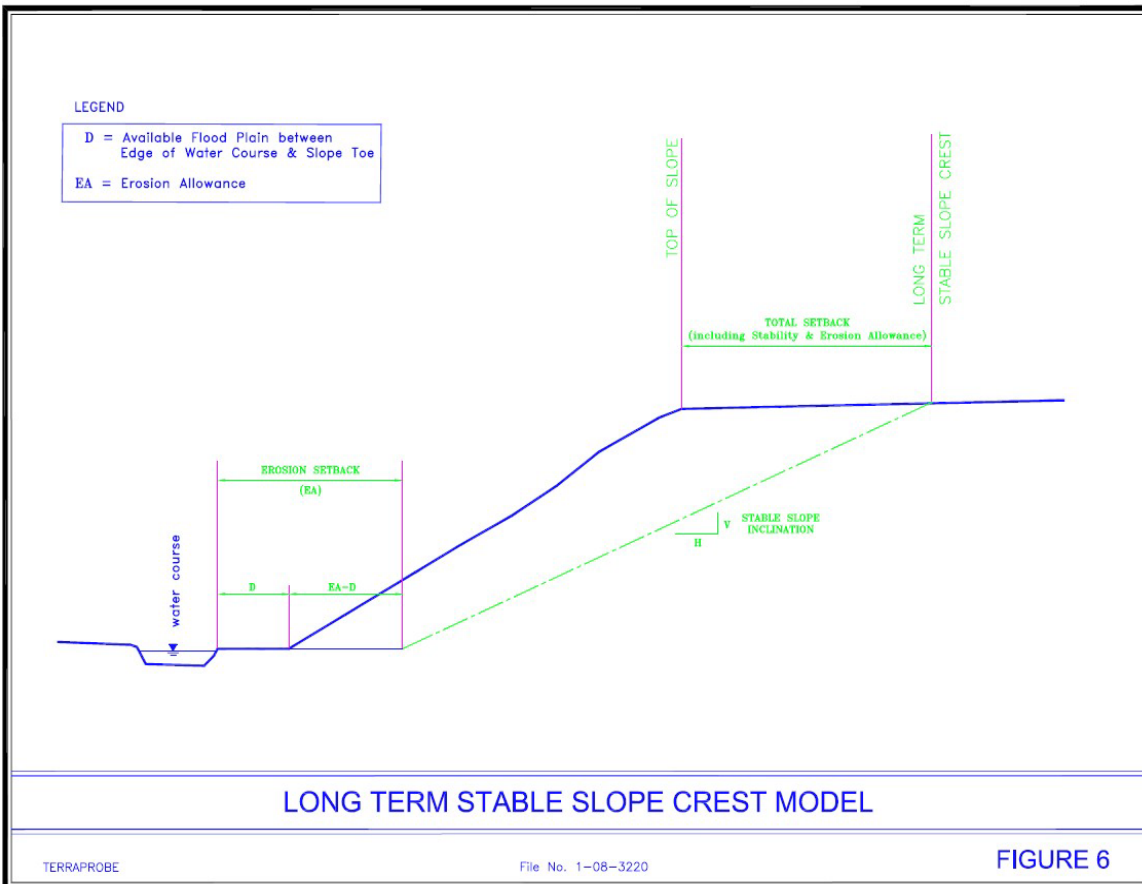


Figure 17 Illustrating the methodology to determine Long-term Stable Slope Crest position

Note: LTSSC does not include Erosion Access Allowance  $LTSSC = \text{Toe Erosion Setback} + \text{Stability Setback}$  (No Toe Erosion Setback if watercourse is 15m or more away from the slope toe).

## 6.0 Erosion Hazard Limit

The erosion hazard limit for a confined valley system is the limit that estimates the expected extent of erosion/slope crest loss (due to both toe erosion and slope instability) over the planning horizon of 100 year, plus the erosion access allowance.

The Erosion Hazard Limit = Toe Erosion Allowance + Stable Slope Allowance + Erosion Access Allowance, as indicated in Figure 18:

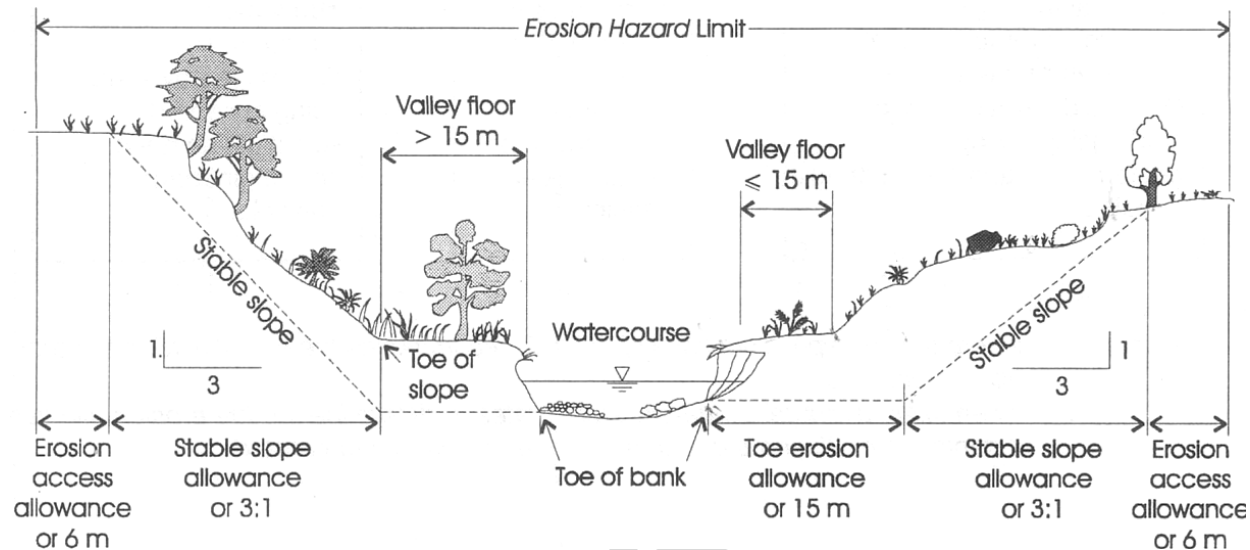


Figure 18 Illustrating the erosion hazard limit for a confined valley system

Figure 19 illustrates the erosion hazard limit where the toe of slope is stable (floodplain  $\geq$  design toe erosion allowance). Figure 20 illustrates the erosion hazard limit where the toe of slope is unstable (floodplain  $<$  design toe erosion allowance).

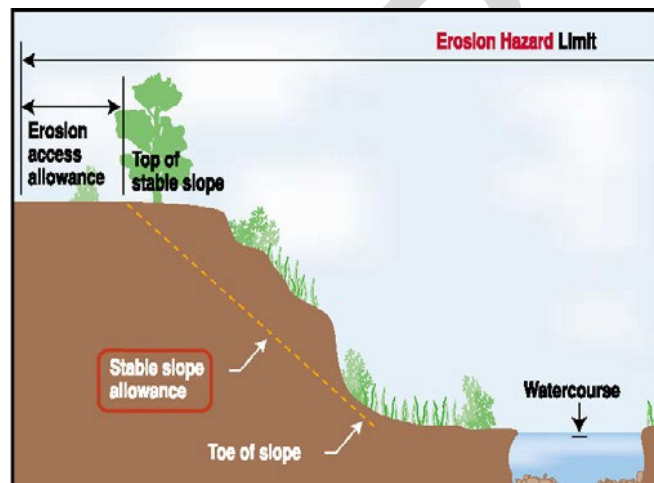


Figure 19 Erosion hazard limit with a stable toe

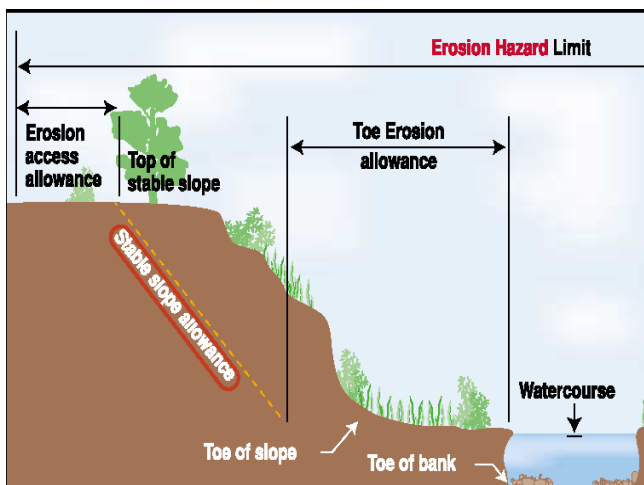


Figure 20 Erosion hazard limit with an unstable toe

The erosion hazard limit for **shoreline/bluff** (Figure 21) is determined based on the stable slope allowance and average annual recession (the average annual recession rate is an average rate of erosion of the shoreline per year for a site where there is at least 35 years of reliable recession information is available) extended over 100- year time span. Alternatively, if reliable average annual recession information is not available, the province suggests a setback distance to allow for 30 metre erosion allowance along the Great Lakes<sup>1</sup>.

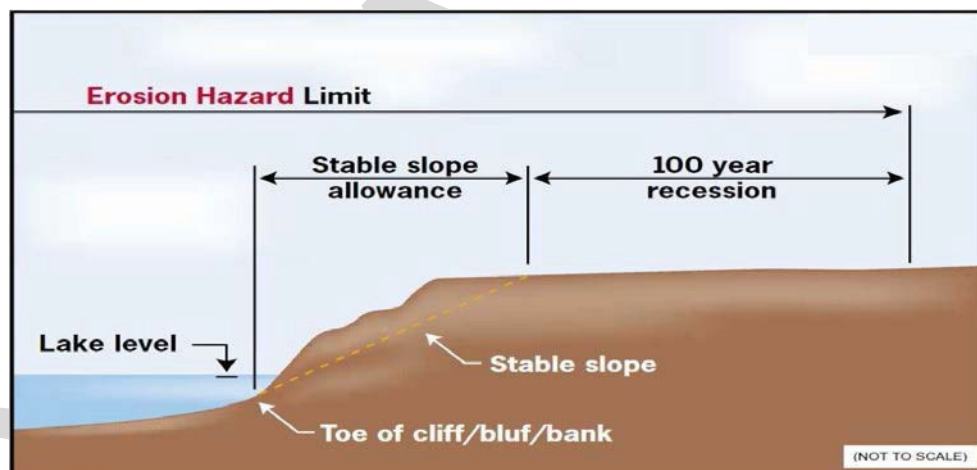


Figure 21 Illustrating the erosion hazard limit for shoreline/bluff

The erosion hazard limit for an unconfined valley system is determined based on flooding hazard limit OR meander belt allowance (20 times the bankfull channel width centred over the meander belt axis) OR as determined by a valid study, plus the erosion access allowance.

<sup>1</sup> Understanding Natural Hazards - Great Lakes – St. Lawrence River System and large inland lakes, river and stream systems hazardous sites.



## 7.0 Geotechnical Report – Terms of Reference

The following terms of reference should be followed in the geotechnical slope stability and streambank erosion assessment:

- Determine subsurface conditions and groundwater conditions to a depth equal to at least the height of the slope/ravine.
- Evaluate the pertinent soil strength parameters and slope geometry Assess the stability of the slope
- Provide relevant cross-sections and Factor of Safety
- Assess toe erosion allowance
- Determine the location of the Long-Term Stable Slope Crest (LTSSC) line and plot it on the topographical site plan
- Provide a geotechnical engineering analysis for retaining structures, if applicable
- Provide retaining wall design details, if applicable including depth of embedment, buttressing gradient, tie-backing, drainage and fines migration protection.

A geotechnical report should include:

- Site and project description
- Field procedure
- Subsurface conditions
- Discussion and recommendations
- Visual slope inspection results
- Slope stability analysis
- Toe erosion allowance, Development setback/erosion access allowance
- Summary
- Appendices
  - Borehole logs
  - Laboratory test results
  - Site location plan
  - Aerial photograph
  - Topographic plan with long-term stable slope crest location
  - Existing slope cross-sections
  - Long-term stable slope crest sections
  - Slope stability analysis results
  - Photographs

## Policies Manual Consultation Feedback

ID	Section	Consultation Comment
1	General	The Historic Saugeen Métis (HSM) appreciates the opportunity to review this matter and work in collaboration with SVCA. The primary interests of HSM are the protection of the lands and waters which are vital to the community's Métis culture and way of life, and the recognition of HSM's rights under Section 35 of the Constitution Act (1982). HSM has no concerns with the revised policies manual as presented and appreciates the work carried out by SVCA. HSM looks forward to future updates and requests for comment from SVCA.
2	General	If not present, add disclaimer that: Where discrepancies exist between the text of the legislation or regulation and the information provided with the Environmental Planning and Regulations Policies Manual, the text of the legislation and regulation prevail.
3	General	Grey County generally supports the draft manual.
4	General	Upon reviewing the SVCA's EPR Policies Manual, the County of Dufferin Planning division has determined that we have no comments pertaining to the manual.
11	General	Well written, but may be written at too high a reading level for the general public
18	General	I recommend reviewing CO's recommended policy manual related to wetlands for some information/wording to include in the wetland section.
19	General	Ensure tone and format of s. 4 policies is consistent – i.e. I didn't see requirements for geotech in the shoreline erosion hazards vs. riverine hazards
20	General	Remove any reference to EIS's and instead use Water Balance study or hydrologic / hydrogeologic study or hazard assessment.
21	General	Our policies should be as specific as possible and leave little to no room for staff interpretation (consistency, consistency, consistency) – need to document explicitly when studies will be required (see my comments in table) to avoid issues at OLT.
22	General	TOR should be developed asap for technical studies so they are provided at pre-consultation.
23	General	that the draft EPR Policies Manual update be consistent with the Conservation Act in preserving the right for property owners to be able to appeal to the board
217	General	SVCA has timing windows relayed to in-watercourse work compared to other CAs that have done away with this practice. I think that SVCA should be consistent with other CAs. SVCA has an agricultural outreach committee, and the committee should review the agricultural related policies (tile drainage, drains, etc.) before the new policy manual is approved.
7	General	Not all statutory references are italicized. They should be italicized to conform to common practice.
9	General	Some 'policy' section numbers don't properly nest within their respective sections i.e. "4.9.1.1" should be "4.9.1", and "Policy 4.9-2" should just be "4.9.2". Check all section numbers.



ID	Section	Consultation Comment
10	General	Many policy references throughout the document are incorrect, specifically in Section 3 – section numbers should be assigned to each policy for ease of reference, which was originally proposed. It is difficult to distinguish between information and specific policy.
12	General	AODA compliance: Remove double spacing after periods *(Ctrl-F through document to find/1.3.3 example)
13	General	Consistent punctuation at the end of the “Permitted Uses” listed in the tables *(i.e. Y/N to a period at the end of each item)
15	General	Suggest where appendices, section references, and technical guidelines are noted in the manual that they be linked for ease of use.
16	General	Fix formatting ...indents/tab when referencing legislative sections/policies. Better visually. Hopefully Janice could accept this.
14	General	Add a “s” to the end of “Conservation or restoration projects” > “the “s” is missing in some of the section’s tables *(e.g. 4.6.3.2)
17	General	Amend language in policies so it matches legislative and regulatory wording i.e. use “interference vs. alteration”, use “a permit” over “permission” etc.
5	General	The document is comprehensive (lengthy) and detailed and as such it is extremely difficult to identify areas where changes are being proposed. To allow meaningful public consultation without being overwhelmed by the detail and complexity it is important that major changes are clearly flagged and that a redline version is made available for comparison of the detailed changes against previous manuals. Could you please make these available - without that the meaningfulness of the consultation is thrown into question
6	General	He and others won’t spend their time reading such a large document. He suggested all developments should be engineered to save i.e. building inspectors from having to complete inspections themselves. He said that instead of a month or two of consultation for the policies manual, that after 12-months of use we should be asking for feedback so that people actually understand the implications of the policies. I said this is a 5-year update that includes considerations on the feedback we’ve received since 2018, in addition to reflecting new provincial legislation.
8	General	Access Allowance policy in 4.8.1 should be moved to general policies so that it will apply to both flooding and erosion hazards for shorelines and riverine systems.
24	1.1	Introduction - Reference to Ministry of Environment & Climate Change (MOECC) - Reference should be updated to Ministry of the Environment, Conservation and Parks (MOECP) throughout the manual
25	1.1	Introduction - Reference to Ministry of Environment & Climate Change (MOECC) - Reference should be updated to Ministry of the Environment, Conservation and Parks (MOECP) throughout the manual
35	2.1	“Although there are a variety of land use activities that occur across the SVCA landscape, agricultural agriculture predominates the landscape with forestry activities, aggregate extraction and recreational uses also factoring prominently.”

ID	Section	Consultation Comment
36	2.3	The phrase “allowing for well-planned future growth opportunities in many communities” as a conclusion to the paragraph outlining risks associated with climate change is unclear.
37	2.3	Change wording to “Current projections projections indicate that, in general, Ontario’s total mean annual precipitation, in general, has not changed significantly over the current 100-year planning horizon. However, but precipitation patterns will are changing include an increased occurrence of where higher intensity rainfall events are being experienced followed by longer periods of dry weather. Stream systems may be are being affected by the increased sporadic flows that are associated with high intensity rainfall events. These systems and an increase the potential for localized flooding, stream bank erosion and slope failures. allowing for well-planned future growth opportunities in many communities.
38	3.1	It is important to Agriculture planning applications and Regulation & Permitting Program applications aim to match Provincial legislative policies and not apply a more restrictive regulation locally
39	3.1	Implementation “In some cases, there may be a need for coordination between planning applications and those under the Authority’s Regulation and Permitting Program. This can also be complicated by the fact that the two applications may be received years apart. The Authority will ensure that its position on a Planning Act application is the same as its position on a permit application for the same property; except where planning policies supported by the PPS, municipal official plans or the Authority’s Members, may be more restrictive. The principle of development is determined through the review process under the Planning Act and is discussed elsewhere in this manual.” - Similar wording in Section 4 Administration of Ontario Regulation 41/24 and Related CA Act / Planning and Permit Applications. Wording should be consistent throughout the manual.
40	3.1	Implementation “In some cases, there may be a need for coordination between planning applications and those under the Authority’s Regulation and Permitting Program. This can also be complicated by the fact that the two applications may be received years apart. The Authority will ensure that its position on a Planning Act application is the same as its position on a permit application for the same property; except where planning policies supported by the PPS, municipal official plans or the Authority’s Members, may be more restrictive. The principle of development is determined through the review process under the Planning Act and is discussed elsewhere in this manual.” - Similar wording in Section 4 Administration of Ontario Regulation 41/24 and Related CA Act / Planning and Permit Applications. Wording should be consistent throughout the manual.

ID	Section	Consultation Comment
41	3.1	The phrasing of “The Authority will ensure that its position on a Planning Act application is the same as its position on a permit application for the same property; except where planning policies supported by the PPS, municipal official plans or the Authority’s Members, may be more restrictive” may contradict other policies. Elsewhere the document suggests that planning would precede or at least coincide with permitting and more restrictive plans shall take precedence (e.g., “In administering SVCA’s legislative, regulatory, and plan review services, the more stringent requirements shall take precedence” under 3.2 and “Any concerns regarding the establishment of the principle of development will be conveyed to the municipality/planning approval authority during the <i>Planning Act</i> approvals process and not addressed through the <i>CA Act</i> permitting process ( <i>Planning Act</i> approvals are to be secured first; permit approvals second)” under 1.3.5). The above highlighted sentence could be interpreted that support could be provided on a permit matter for something otherwise not supported by planning policy. Suggest removal or clarification
98	3.11	The recently updated Conservation Authority Act definition of watercourses should be applied for determination
43	3.2	Under Plan Review official plan amendments should be added, and ‘consents to sever’ can be just ‘consents’ to include other types (easements, etc.)
44	3.3	we request that the SVCA incorporate reference to the dispute resolution mechanisms found in MOUs (such as the Bruce County-SVCA MOU), which may be relevant in the context of Sections 1.3.5, 3.3, 3.4.1, and 3.4.8.
45	3.3	Text in first paragraph seems to separate wetlands and natural hazards. Since Bill 23 would wetlands not be considered by the SVCA only in as much as they are natural hazards?
46	3.3	In the third paragraph, “more protective policies relating to shall prevail” is concerning as local policies may be restrictive than the Provincial policies
47	3.4	Under both the sections Official Plans and Official Plan Amendments and Zoning Bylaws and Zoning Bylaw Amendments the text is providing general descriptions of each document but not the amendment processes. Given that these fall under the section 3.4 <i>Planning Act</i> Applications I’d suggest more emphasis placed on the amendment aspect. Happy to provide text if needed.
48	3.4	Under Consents (severances, lot-line adjustments, and easements), “...rezoning (or minor variance) to adjust the permitted lot dimensions” is provided as an example condition. In Bruce we would do enabling zoning or MVs first, I'm not sure about other municipalities. Could be removed if not too important, or if you want to maintain it, could be rewritten to "... rezoning (or minor variance) being in force and effect to adjust the permitted lot dimensions" as we would usually have a condition requiring confirmation that enabling zoning or MV is in force and effect.
49	3.4	Under Minor Variances, “The review of minor variance applications is an effective method by which SVCA can generally monitor and assess the impact of development activities on key policy and program interests” Is there a particular reason why minor variances are effective for this monitoring over other planning applications? If so could it be explained? If not, should this be written as a broad comment about Planning Apps?

ID	Section	Consultation Comment
64	3.6	In the 3 <sup>rd</sup> paragraph “SVCA will recommend lands susceptible to natural hazards be placed in a protective designation in Official Plans” A suggested protective designation and a protective zone in zoning bylaw raise a concern of replacement of use of Provincial Policy Statement. While this may give some distinction but concerningly this could cause unintended limits all if not understood by all parties involved. Cannot agree to the proposed designations, this eliminates the application of nuances
88	3.9	Natural Features Maintained - position conflicts with our policies allowing for new development in valleylands provided slope not over-steepened.
89	3.9	Valleyland crossings – no mention here of safe access
86	3.9	Appears to be an error with the numbering/bulleting, the other hazard types (e.g., 3.9.1.1 Lake Huron Shoreline Flooding and Erosion) all fall under 3.9 Riverine Erosion Hazard Limit
101	4	Heading should be amended to: Administration of the Conservation Authorities Act (Part VI) and Ontario Regulation 41/24.” ... aligns more with legislative context...also no abbreviations in headings.
102	4	Administration of Ontario Regulation 41/24 and Related CA Act Planning and Permit Applications “In some cases, there may be a need for coordination between planning applications (Section 3) and those under the Authority’s Regulation and Permitting Program (Section 4). This can also be complicated by the fact that the two applications may be received years apart. Except where legislation or policies have changed, or where planning policies supported by the PPS, municipal official plans or the SVCA are more restrictive, the Authority will ensure that its position on a Planning Act application is the same as its position on a permit application for the same or similar proposal on the same property. The principle of development is determined through the review process under the Planning Act.” - Similar wording in Section 3.1 Implementation. Wording should be consistent throughout the manual.
103	4	Administration of Ontario Regulation 41/24 and Related CA Act Planning and Permit Applications “In some cases, there may be a need for coordination between planning applications (Section 3) and those under the Authority’s Regulation and Permitting Program (Section 4). This can also be complicated by the fact that the two applications may be received years apart. Except where legislation or policies have changed, or where planning policies supported by the PPS, municipal official plans or the SVCA are more restrictive, the Authority will ensure that its position on a Planning Act application is the same as its position on a permit application for the same or similar proposal on the same property. The principle of development is determined through the review process under the Planning Act.” - Similar wording in Section 3.1 Implementation. Wording should be consistent throughout the manual.
108	4.1	Suggest paragraph after the bulleted list (bottom of page 54) would be more appropriate in the wetland policy section. Seems out of place here.
109	4.1	Replace heading with “Purpose and Objectives of the Conservation Authorities Act (Part VI) and the Regulation”
110	4.1	Under objectives replace wording “flood or erosion hazards” to “natural hazards” to align more with the Act.

ID	Section	Consultation Comment
195	4.10	Does SVCA intend on adding the potential/known karst hazard areas as either screening, regulated, or hazards areas on SVCA mapping? Grey County has karst mapping that can identify known, inferred, and potential karst areas if needed. Will SVCA review and request karst hazard technical studies if development is proposed within these areas? Grey County does not have technical expertise in reviewing these documents and are essentially accepted at 'face value'. Grey County currently requests karst studies, is SVCA also an approval authority for any karst hazard studies within the SVCA watershed? e.g. Durham Does SVCA have technical expertise to review karst hazard studies? i.e. would you prefer to review and approve these studies vs. grey county?
199	4.11	In water timing windows: should be encouraged but should not be required. Have been told by other CA's that this is not an enforceable condition.
200	4.11	Why so many sub policies for dams? I know it exists in current policy manual, but can all dam policies be within the same or one policy.
196	4.11	Typo: Typical projects that involve watercourse interference activities include, but are not limited to, culvert placement or replacement, bridge construction, bed level crossings, piping of watercourses, installation or maintenance of linear infrastructure crossings (pipelines, telecoms), construction or maintenance of by ponds, straightening and diversions as well as any work on the bed or the banks of the watercourse such as tile outlets and bank protection projects.
115	4.2	Heading should read "Administration of the Conservation Authorities Act (Part VI) and the Regulation"
117	4.2	"The principal mandate of the Authority is to prevent the loss of life and property damage due to flooding and erosion, social disruption and to conserve and enhance natural resources." We must disagree on the inclusion of "enhanced natural resources" On the Conservation Ontario website the core mandate is listed as "The core mandate of Conservation Authorities is to undertake watershed-based programs to protect people and property from flooding and other natural hazards, and to conserve natural resources for economic, social and environmental benefits."
162	4.7	Opening section describing regulated limit of valleys seems out of place with topic of floodplain. Could remove and start with 4.7.1?
185	4.9	Grey County is potentially implementing policies to remove and create 'other wetland' features. Has SVCA considered developing wetland removal and/or creation policies? Can SVCA defer to other CA policies such as NVCA, GRCA or TRCA for wetland removal, and wetland offsetting/creation policies?
186	4.9	Environmental Impact Studies – suggest listing the types/scope of studies we may require for wetlands (i.e. geotechnical/soil analysis, hydro-g, water balance, etc.) rather than continuing to use the generic term "EIS", as biological/ecological studies not generally going to form part of EISs any longer other than for simply establishing 50% hydrophytic plant coverage if people are disputing a wetland boundary.
187	4.9	Environmental Impact Studies – most CA's are moving away from requesting EIS's and requiring Hydrologic / Hydrogeologic or Water Balance Studies. EIS is a trigger word. I recommend the reference to EIS be replaced.

ID	Section	Consultation Comment
188	4.9	"Development and Interference" Section "b." shows updated 30m buffer Section "c." only refers to 1 of 4 criteria in definition of wetlands from Conservation Authority Act. All 4 criteria should be required as features, not just 1.
189	4.9	Section "Environmental Impact Studies" is the minimum buffer is it a regulated 15m buffer or 30m buffer? What triggers the request of an EIS? Is it the scope of the project, and how is that determined?
190	4.9	On page 116 the inclusion of "Development may remove or impact wildlife species and their habitat, degrade or remove natural vegetation communities and impair water quality and quantity in both surface and groundwater." Risks going beyond the scope for the SVCA. Species at Risk should be considered under the Department of Fisheries and Oceans. The SVCA scope of water quality/quantity mandate should be priority focus.
204	5.3	The Erosion and Sediment Control Guideline for Urban Construction was fully updated in 2019 and is the best comprehensive resource available.
205	5.8	Other Related Legislation - Reference to Ontario Ministry of Environment, Climate Change & Parks - Reference should be updated to Ministry of the Environment, Conservation and Parks (MOECP) throughout the manual.
206	5.8	Other Related Legislation - Reference to Ontario Ministry of Environment, Climate Change & Parks - Reference should be updated to Ministry of the Environment, Conservation and Parks (MOECP) throughout the manual.
27	1.3.1	When requested <del>to</del> by a municipality or planning board, providing advice, technical support, training and any information the municipality or planning board requires
28	1.3.1 (Section 6)	Should include reference to the Niagara Escarpment Planning and Development Act to be accurate; to include all Acts referred to in s. 6(2) of the CAA. Note that the NEPDA does not apply to lands within the SVCA.
26	1.3.1 section 7	Grey county has recently started providing comments on wildland fire hazards. Does SVCA intend on adding these potentially hazardous areas as either screening, regulated, or hazards areas on SVCA mapping? Grey County has mapping that highlight wildland fire hazard areas at low-extreme risk areas. Although forest fires are a rarity in southern Ontario, grey county has started providing comments due to our climate change action plan which highlights forest fires being a potential concern in grey county with our 41% forest cover and contiguous stretches of forest with increased temperature and droughts with the ever changing climate. If SVCA has any guidance on how to best address these hazardous feature, please do reach out.
29	1.3.3	As <del>a public body</del> [public bodies], conservation authorities (CAs) must be circulated development applications under the <i>Planning Act</i> .
30	1.3.3	The provision of sufficient housing to meet changing needs, including affordable housing,... -add comma after housing
31	1.3.4	Change wording to "Concerns regarding the principle of development are conveyed by CAs to municipalities during through the Planning Act approval process and are not normally addressed through the CA permitting process."
32	1.3.5	we request that the SVCA incorporate reference to the dispute resolution mechanisms found in MOUs (such as the Bruce County-SVCA MOU), which may be relevant in the context of Sections 1.3.5, 3.3, 3.4.1, and 3.4.8.

ID	Section	Consultation Comment
33	1.3.5 (1)	Content is accurate, but for staff reference, need to make it clear that planning approval is not required for the CA to issue a permit. Use of “recommend” that planning approval come first and CA approval second may be better?
34	1.3.5 sub 1	Change wording to “SVCA recognizes that the ‘principle of development’ is preferred to be established through the Planning Act. Any Concerns regarding affecting the establishment of the principle of development will be conveyed to the municipality/planning approval authority during the Planning Act approvals process and not addressed through the CA Act permitting process (i.e. Planning Act approvals are to be secured first; permit approvals second).
100	3.11.1.1 2) and 3)	2) Should be “control flooding and/or erosion and provide environmental enhancement”. Using “or” here could imply one or the other. 3) Would state bridges and crossings installed “as per Section 4 policies” and not use the word “approved”
99	3.11.1.2	Buffer Policies - 15m protective zoning, support staying at this level but don't add additional zoning referenced earlier and don't go beyond Provincial legislations.
42	3.2, 3.3, 3.4.1, 3.4.2	It is my understanding that Grey County does not have an MOU or agreement with SVCA in regard to commenting on planning applications, approval authority for technical reports and features, collaborative review of stormwater and water balance technical studies, etc., climate change impacts and data sharing, sharing hazard land mapping, etc. Grey county would like to develop and MOU with SVCA.
50	3.4 Minor Variances	Ability to identify the requirement for an SVCA permit is only noted for this type of planning application and site plans. Could/should be noted for subdiv, condo, and even consent as it relates to potential future development of the severed parcel.
51	3.4.1	we request that the SVCA incorporate reference to the dispute resolution mechanisms found in MOUs (such as the Bruce County-SVCA MOU), which may be relevant in the context of Sections 1.3.5, 3.3, 3.4.1, and 3.4.8.
52	3.4.1	In the second last sentence which specifies that natural heritage will not be commented on, some intention be provided to clarify that this now falls to other authorities and that SVCA will continue to coordinate review with those authorities, etc.
53	3.4.3	Application Pre-submission Consultation & Processing Timelines - Considering adding language to include virtual meetings as an option during the pre-consultation process
54	3.4.3	Application Pre-submission Consultation & Processing Timelines - Considering adding language to include virtual meetings as an option during the pre-consultation process
55	3.4.4	Submission Requirements - Where development proposals are located within an SVCA area of interest, Planning Act applications are determined completed by the municipal planner in consultation with the SVCA. - The SVCA may be involved with pre-consultation and may advise the planning authority on supporting materials that should be included with the Planning Act application submission, but the SVCA does not have a mandated role in deeming Planning Act applications complete. Consultation by the municipal planner with the SVCA regarding the completeness of Planning Act applications is not required. This wording should be updated to accurately reflect the role of the SVCA.

ID	Section	Consultation Comment
56	3.4.4	<p>Submission Requirements</p> <ul style="list-style-type: none"> <li>- Where development proposals are located within an SVCA area of interest, Planning Act applications are determined completed by the municipal planner in consultation with the SVCA.</li> <li>- The SVCA may be involved with pre-consultation and may advise the planning authority on supporting materials that should be included with the Planning Act application submission, but the SVCA does not have a mandated role in deeming Planning Act applications complete. Consultation by the municipal planner with the SVCA regarding the completeness of Planning Act applications is not required. This wording should be updated to accurately reflect the role of the SVCA.</li> </ul>
57	3.4.5	For Flow chart in Figure 3-1: The "yes" arrow leaving "Is application consistent with mandate" under the Planning stream should lead to "SVCA provides final recommendation to municipality"; Possibly merit in splitting flowchart to include the permit stream in section 4 and a reference to that in section 3 if a permit is required. As it stands, the Figure title of "Plan Review process" may not encompass what is shown.; May not be accurate to have flowchart conclude at "Commence Project" as there are possible approvals missing (e.g. building permits, satisfying consent conditions, etc). Suggest for simplicity the final square be "proceed to any other approvals required"
59	3.4.5	The chart is appreciated for use including the permit approvals demonstrating the difference of planning permits versus CA permits. Where in the process does the applicant get informed that a CA permit is required, and by who? What happens if a planner or another individual indicates no permit needed only means no planning permit is required
58	3.4.5 Figure 3-1	Figure needs to be updated to ensure the CA permit review process conforms to CA Act changes re: complete applications / appeals/ hearings, etc. The CO policy document has diagrams to assist.
60	3.4.6	Continued concern of applying more restrictive policy than Provincial Legislative Policies
61	3.4.6 to 3.7.1.5	I think there needs to be some staff discussion in these sections on the inclusion of biological/environmental impacts. One strong example is 3.7.1.5. We will not be "requiring" these studies to be completed unless an SVCA permit is required, and the study is specifically hazard related. Generally, we are not supposed to be speaking to natural heritage issues for planning. Perhaps this could be made clearer.
62	3.4.8.	we request that the SVCA incorporate reference to the dispute resolution mechanisms found in MOUs (such as the Bruce County-SVCA MOU), which may be relevant in the context of Sections 1.3.5, 3.3, 3.4.1, and 3.4.8.
63	3.5 (Health & Safety)	Change reference from Provincial Policy Statement to Provincial Planning Statement.
65	3.7.1	Definition of "hazardous lands" includes an indent in error.
68	3.7.1.10	The first paragraph should be amended to "... that appropriate provisions for safe ingress and egress (i.e. safe access) be identified in accordance with provincial guidelines. SVCA policies (s. 3.7.1.8). SVCA's safe ingress/egress policies are in accordance with current provincial guidelines.
71	3.7.1.11	Listed items are duplicative and 2) and 3) conflict



ID	Section	Consultation Comment
69	3.7.1.11 1-5)	<p>1) seems to suggest that that new lot lines themselves would need to be setback from hazards, whereas 2) suggests that as long as lot lines do not extend into hazards lot creation could be supported</p> <p>3) suggests some overlap of parcel fabric with hazard would be acceptable but only through individual severance, whereas 5) seems to duplicate this with greater detail but doesn't specify between consent and subdivision.</p> <p>It would be helpful if these taken together could answer the question "would a new subdivision proposed alongside a hazard be permitted to include any amount of hazard lands within individual parcel fabric". I think if the intention is generally no, clarifying 1) vs. 2) and omitting 5) but taking some of it's text to expand on 3) would achieve this.</p>
72	3.7.1.11 sub 1)	Amend wording to "... and be consistent with SVCA, provincial, and / municipal policy.
70	3.7.1.11.6)	Refers to 3.6.1.3, I believe that is an error
73	3.7.1.12	Amend wording to "the proposal will be considered by SVCA to be flood/erosion susceptible and the policies of this document will apply.
75	3.7.1.13	Add "the" before Prov. Planning Statement in first paragraph
76	3.7.1.13	Amend PPS sections "...SVCA will advise that the development and site alteration must adhere to PPS Policy 5.2.3 (identifies where development and site alteration is not permitted) and fulfil all the requirements outlined in PPS Policies 5.2.5 and 5.2.78. Where all the requirements of Policies 5.2.5 and 5.2.7 8 cannot be fulfilled, SVCA will recommend that the development and site alteration should be directed to a location outside of the hazardous lands.
74	3.7.1.13	<p>"In accordance with PPS policy 5.2.3, SVCA will recommend that the following not be permitted for"</p> <p>For item 1. The addition of "unless it has been demonstrated that the site has safe access appropriate for the nature and development and natural hazards eg. floods."</p>
77	3.7.1.14	<p>Low Impact Development and Green Infrastructure</p> <p>This section appears written focused to other perspectives, it doesn't speak to agricultural considerations. An Agricultural Lens use where appropriate would be beneficial. There are significant differences on definitions of development. For example in the Conservation Authority Act where site grading is included as development</p>
78	3.7.1.14	Amend the following wording in paragraph 2 "...require a permit under the SVCA's Regulation. In accordance with the CA Act and O. Reg. 41/24. SVCA's review of infrastructure, stormwater management, and erosion and sediment control plans must also conform to the policies and procedures associated with SVCA's Regulation permitting regulatory responsibilities in Section 4 of this document.

ID	Section	Consultation Comment
83	3.7.1.14	<p>3.7.1.14 Infrastructure, Stormwater Management, and Erosion and Sediment Control</p> <p>In accordance with the planning methodologies discussed in Sections 2.2 and 2.3, SVCA will recommend low impact development (LID) and green infrastructure be used for stormwater management when reviewing Planning Act applications for new development.</p> <p>We note that in some location certain LID techniques may not be practical or possible. For example in a wellhead protection area where salt/chloride is an issue it may not be appropriate to promote infiltration of salt laden water from a parking lot. Our recommendations is to add “where appropriate” to the end of the sentence.</p>
79	3.7.1.8	Should cite published year for the MNR tech. Guide. Subsection 2) fourth bullet is split into two lines
80	3.7.1.8	Due to the size and weight of some emergency vehicles all access/egress routes should consider the standards in Chapter 18 of NFPA 1, Fire Code.
66	3.7.1.8 3)	The current wording could lead to a complete ban of any non-habitable structure, including seasonal use permanent structures, implement or tool sheds. Support suggested use of a case by case basis
81	3.7.1.8 (safe access)	Review these two sections – most of the information in 4.7.5 is repetitive to 3.7.1.8 - they should be the same – I recommend safe access policies be located in the planning section and referred to in s. 4. Keep 3.7.1.8 intro and policies as is - they contain same policies as 4.7.5 - just need to add “the product of flooding depth and velocity” to 3.7.1.8.
82	3.7.1.8 sub 1 clause a	Formatting needs to be fixed
67	3.7.1.8.1)d)	These policies consider proposals which require access onto an existing flooded or floodprone roadway. Because they are under 3.7.1.8.1) New Development and Infilling there is some implication that lot creation may be supported on a road which may not meet safe access (given PPS definition of development). Would this be supported? Based on later policies on lot creation, my understanding is likely not. If that’s the case, may be worth clarifying without having to jump to later policies on lot creation
84	3.8.1	Confirm the following statement remains current or should be added to. I believe the Feds also have current FP mapping recommendations used for the FIMP program. What did we use to update Durham/TOSS? “The limits of the flood hazard will be determined through SVCAs floodplain mapping program in accordance with established Provincial standards.”
85	3.8.1.1	As previously mentioned, there is concern with additional zone designations. For “Floodplain Mitigation” possibly add “reasonable to the use or development” to paragraph.
87	3.9 (3.8.2)	Unconfined systems - Feel we need to be careful about characteristics of watercourse listed. If it would not meet the definition of a regulated watercourse, I don’t see how we would be applying a meander belt hazard to it.

ID	Section	Consultation Comment
90	3.9.1.2	Dynamic Beach Hazard In 1996, there was as assessment completed for the Geographic Town of Southampton, which revised the 30-metre setback. - What was the 30-metre setback revised to? - Are there further details for Southampton that should be included in the manual?
91	3.9.1.2	Dynamic Beach Hazard In 1996, there was as assessment completed for the Geographic Town of Southampton, which revised the 30-metre setback. - What was the 30-metre setback revised to? - Are there further details for Southampton that should be included in the manual?
92	3.9.1.2	Check formatting in paragraph 1 – spacing
93	3.9.1.3	In “New Development and Infilling”. Which definition of development is being applied, the Provincial Policy Statement definition or the Conservation Authority Act definition? What protection will be applied for Normal Farm Practices for ag uses such as fields and crops? This may be an area to look at case by case?
94	3.9.1.4	“Given the extraordinary benefits of wetlands and their hazard susceptibility to development, SVCA supports maintaining and enhancing existing wetlands within the watershed”. We support a landowner maintaining wetlands on their property, any enhancements on agriculture lands should be per the landowner’s discretion and initiative.
95	3.9.1.4	“Wetlands Designation- Zoning” – in this application ground truthing will be a key tool, not primarily relying on aerial imagery for designation and zoning changes. Inclusion of ground truthing would be strongly supported.
96	3.9.1.4	“Hydrological Area of Interference Adjacent to Wetlands” Provincial legislation has changed to 30m for all wetlands, meaning removal of 120m reference.
97	3.9.1.4	Both the CA Act and PPS definitions for wetlands have been included in the definitions section. Policy section 3.9.1.4 describes how SVCA would provide policy recommendations and plan review relating to wetlands, but does not distinguish between wetland types. Would these prescriptions be provided for wetlands which meet the PPS definition but not the CA Act definition?
104	4 (general)	Regarding "Development and Alteration Activities", I would not recommend using “alteration” as it is not used in legislative language. Best to make the changes now and keep consistency with current wording. It will also be consistent with other authorities, assuming they will be making the same changes...I checked with CLOCA’s manual and they are using “interference”. Not sure how many other policy manuals have been updated since last April.
105	4 (general)	Also, the term requires “permission” is old legislative language and “a permit” should be replaced to keep with current terminology.
106	4.1 (1 <sup>st</sup> paragraph)	Amend wording (The purpose of Part VI of CA Act and the Regulation is not...)

ID	Section	Consultation Comment
107	4.1 (3 <sup>rd</sup> paragraph)	Amend wording “Regulating development in areas subject to natural hazards is generally frequently well understood by the public, stakeholders, and planning authorities. However, regulating development and interference and works in wetlands and their other areas may not be as commonly understood. The reasons why Conservation authorities are mandated to regulate development and interference within wetlands and their other areas because have this responsibility results from the important role wetlands play a significant role in flood attenuation and erosion control.
197	4.11 pg. 121	2nd paragraph - “construction or maintenance of by-pass ponds”
198	4.11 Watercourse Interference Section	Overall – need to come to consensus on the issue of natural features and ecological impacts when evaluating projects. No longer a test of the regulation and will not be able to refuse a permit based solely or largely on this issue.
202	4.11.1.10	Feel similar criteria need to be applied to creation of these ponds as other ponds. This section seems too brief.
203	4.11.1.16	Criteria listed here seem to be a bit impractical, especially g). Intrusions into the creek channel are going to be very significant and loss of natural features is guaranteed with this type of project.
201	4.11.1.2	Minor Interference (tile outlets) As a minor interference, tile outlets should not need a full Environmental Assessment
113	4.2 (1 <sup>st</sup> paragraph)	Recommend removing this sentence as it minimizes other natural hazard features “Areas of focus include development in areas related to water-based natural hazards such as floodplains or shorelines.”
114	4.2 (2 <sup>nd</sup> paragraph)	Amend wording “Permit decisions are based on the policies contained within this document, which have been made in accordance with the text of the Conservation Authorities Act (CA Act) and the Regulation. Conservation authorities find the SVCA also refers to other document for Policy direction, is also found in several documents including but not limited to the Policies and Procedures for Conservation Authority Plan Review and Permitting Activities, MNR’s Natural Hazard Technical Guides, and applicable Conservation Authority (CA) Conservation Ontario approved policy or practice; if these policies, practices and/or protocols are within the intent of the Act and the Regulation.
116	4.2. (general)	<i>The Regulation and development and alterations should not be italicized.</i>
111	4.2.1	Important Definitions and Areas “ . . . definition that is provided for ‘development’ under the Planning Act” - Development is defined in specific sections of the Planning Act (i.e. Section 41, specific to Site Plan Control). - The Provincial Planning Statement (PPS, 2024) defines development.
112	4.2.1	Important Definitions and Areas “ . . . definition that is provided for ‘development’ under the Planning Act” - Development is defined in specific sections of the Planning Act (i.e. Section 41, specific to Site Plan Control). - The Provincial Planning Statement (PPS, 2024) defines development.
118	4.2.1	As “the Lake Huron Shoreline” is specific to only Lake Huron shoreline - not all shorelines are being referred to, please add Lake Huron in front of shoreline references.

ID	Section	Consultation Comment
119	4.2.1 (1 <sup>st</sup> paragraph)	I recommend this paragraph be simplified similar to Section 3. It is confusing to read. The only difference between the two definitions is that under the PPS, development includes new lot creation and land use changes; it also includes construction of buildings and structures. However, under the PPS, site grading and filling is excluded. Under the CA Act all that is missing is land use changes / lot creation.
120	4.2.2	Approximate Regulation Mapping – Adding the inclusion of the need for ground truthing not just aerial imaging or pre-existing mapping.
121	4.3.10	Permits cannot be transferred, but they can be changed (amendments/extensions). Cannot withdraw/cancel a permission “at any time” - requires intent to cancel notice/hearing.
122	4.3.2	End of first paragraph. Use Board of Directors rather than Authority Members? Same elsewhere for hearings.
123	4.3.6	“(a) assist in preventing or mitigating any effects on the control of flooding, erosion, dynamic beaches or unstable soil or bedrock.” >replace period with semicolon
124	4.3.7	Add new direction around 30 / 90 days depending on minor / major permit application type. Also ensure reference to appeal to Minister is included
125	4.3.7	“In such a case, the applicant may request a hearing before the Saugeen Valley Conservation Authority Members.”
126	4.3.7	- Use Board of Directors rather than Authority Members?
128	4.3.7	Recommend wording be amended. “An applicant who has been refused permission or is not in agreement with conditions of an approval may, within thirty 30 days of the receipt of the reasons for the decision, appeal to the Minister of Natural Resources, care of the Ontario Lands Tribunal, who may dismiss the appeal or grant permission.
127	4.3.7	“An applicant who has been refused permission or is not in agreement with conditions of an approval may, within thirty 30 days of the receipt of the reasons...”
129	4.3.7.1	Consider requiring a local ‘declaration of emergency by the head of council’ pursuant to the EMCPA 4(1) The head of council of a municipality may declare that an emergency exists in the municipality or in any part thereof and may take such action and make such orders as he or she considers necessary and are not contrary to law to implement the emergency plan of the municipality and to protect property and the health, safety and welfare of the inhabitants of the emergency area. R.S.O. 1990, c. E.9, s. 4 (1).
130	4.3.8 11 2)	Have we developed an application for a permit extension?
131	4.3.9	“Once contacted, SVCA will subsequently review the violation” -is there an opportunity to work with the landowner, such as have a conversation before notifying the landowner is writing as part of the procedure? Also considering that certain times of year may be more difficult for communications and meetings. The current clarity of the procedure helps, but could this be an opportunity to improve relations?
132	4.3.9	first full paragraph on page 65. While this is indeed normal, is it required? Are there opportunities for use of discretion?

ID	Section	Consultation Comment
133	4.3.9	Second full paragraph- We understand that this is following legislated wording. However this can cause issues as is it different for individuals or corporations. In recent years many individuals operating farms have been encouraged to incorporate their farm businesses for various reasons primarily including succession plans. Could discretion apply as an increasing amount of individuals have chosen to incorporate for structure? Can SVCA use their discretion or are they bound by legislation? This could further be complicated by landowners who have written rental agreements with farming tenants.
134	4.3.9	“Normally a “Notice of Violation” will be sent to the landowner, their agent and/or the contractor, by registered mail.”
135	4.3.9	2 <sup>nd</sup> paragraph - Need to include that revocation (should use term “cancellation”) of a permit requires a hearing before the BOD or at least an intent to cancel notice.
136	4.3.9	2nd last paragraph Page 64 - indicate “fees apply” but not use the words “permit application” to avoid confusion?
137	4.4.1.1 sub d)	Recommend adding reference to s. 3.7.1.13 as a resource for evaluating the Authorities “satisfaction.”
138	4.4.2.1 & 4.4.2.2	Both sections have the same heading.
140	4.4.2.2	Add Clause m. “the activity is proposed on an existing lot of record.” This would align better with planning policies and prevent an applicant seeking a permit for a “concept site plan, where planning act approval is required first.”
141	4.4.2.2 sub k.	I worry about the general requirement for technical studies rather than using “shall” for specific scenarios (similar to existing policies). When leaving it up to staff to determine when tech studies will be required it leaves staff and the SVCA vulnerable to litigation and / or vulnerability at the OLT level. If doing it this way, you must add a decision matrix/procedure for staff to follow (in the appendices) when evaluating if a technical study will be required, for each hazard.
142	4.4.2.2 sub k.	Also check each section to ensure format/tone is same. Some hazard areas note the requirement for tech studies and some don’t. So either use a general policies or include the requirement in each section.
139	4.4.2.2	Is the Conservation Authority definition of development which can include grading being applied? In support of Normal Farm Practices, specify tillage and plowing exemption would help.
143	4.4.2.3	Add a new section 4.4.2.3 that states: “Development associated with the following activities shall not be permitted in hazardous lands and sites in SVCA’s regulated area, where the use is: a) an institutional use including hospitals, long-term care homes, retirement homes, preschools, school nurseries, day cares and schools; b) an essential emergency service such as that provided by fire, police, and ambulance stations and electrical substations; or c) uses associated with the disposal, manufacture, treatment or storage of hazardous substances.”
144	4.5.1.1	Support following legislation and do not want to see changes that are more restrictive. New ag drainage distance is noted.
145	4.5.1.2	Fencing: Check that we left wetland/watercourse mentioned in 41/24 out on purpose, otherwise add back in.

ID	Section	Consultation Comment
146	4.5.1.2	Exemption for decks – can we not simply state “free-standing decks” instead of needing to specify item c)? This would not apply to most of our deck proposals though, as they are generally fixed to houses through ledger boards.
147	4.5.1.2	Amend wording: “Notes: they Accessory buildings or structures should be secured to the ground when located within a flood hazard; associated filling or grading may not be exempt (see section 4.5.1.3); and they should be located at least 1 metre from other exempt buildings or structures, not including a platform base or pad that otherwise meets these criteria.
148	4.5.1.3 sub f)	I feel this should be amended to include the following “the grading/filling does not occur on steep or unstable slopes; and it will not cause erosion, sedimentation, or slope instability.”
149	4.5.1.4	Minor watercourse works exemption – some concern with this exemption as it could apply to some projects where we are requiring permits (i/e. Culvert replacements, etc.) Recommend including specific examples here (cleanout by hand, etc.) if we want to keep this section.
150	4.5.1.5	Recommend adding an exemption for replacement of culverts on small private drains or watercourses where the replacement is like for like and does not increase the elevation of the existing crossing and is done in the dry.
151	4.5.1.6	“Previously approved use Exempt” - add agricultural in addition to commercial/industrial
152	4.6.1	The use of ground truthing is essential. Again following legislation, without being further restrictive is very important to agriculture
153	4.6.1 & 4.6.3	“SVCA’s 100-year Lake Level” section is repeated twice in the document – once in section 4.6.1, and again in section 4.6.3. Important information to highlight, but consider referring to previous section vs. repetition?
154	4.6.1.2	Add clause f. “no basement is proposed.”
155	4.6.1.2, 4.6.2.2, 4.6.3.2, 4.7.2.3, 4.8.3.2, 4.8.4.2, 4.9-2. 4.10.1.2	SVCA Planning policies do not support public infrastructure within hazardous lands and sites. SWM ponds may be supported subject to policies in s. 3.8.1.1 Floodplain Lands Designation.
156	4.6.3	Under Figure 4.4 - “Where the dynamic beach hazard intersects a building or structure, the dynamic beach hazard limit ends at that point, while the SVCA’s Regulated Area would include the entire building or structure.” This does not match current mapping practice as we draw the building outside of the hazard if the hazard intersects the building.
157	4.6.3.4	“Some existing dwellings located along the Lake Huron Shoreline in the community of Inverhuron on Lake Street and Victoria Street...” >Suggestion: mention all/other streets - John, Wood, Cayley, etc., or eliminate mentioning specific streets?
159	4.6.3.4 / 4.6.3.5	Inverhuron Specific Policies / Huron-Kinloss - Baird Coastal Reports Shoreline Management Area Policies - Policies specific to the 1996 Southampton Dynamic Beach Study which revised the 30-metre setback are not included. - Are there further details for Southampton that should be included in the manual?
160	4.6.3.4 / 4.6.3.5	Inverhuron Specific Policies / Huron-Kinloss - Baird Coastal Reports Shoreline Management Area Policies - Policies specific to the 1996 Southampton Dynamic Beach Study which revised the 30-metre setback are not included. - Are there further details for Southampton that should be included in the manual?

ID	Section	Consultation Comment
158	4.6.3.4 e)	This policy is confusing. I recommend it be changed to “Where development is permitted in accordance with clauses a. to d. above, the development shall not extend west of existing development on the lot.”
161	4.6.3.5	Items d-f) should be sub-bullets of c), not stand-alone
163	4.7.2.2	Add - “In general, development and alteration activities will not be permitted within the flood hazard limit of a river or stream valley.”
164	4.7.2.3	Floodplain Spill Areas throughout manual: don't specify communities, rather it applies where larger studies (not specific to one development) are completed, ideally that consider significant reaches of a watercourse. 50 metres is standard, though SVCA has ability to extend where sufficient topographic and other details are available (or something like that).
165	4.7.2.3	In-ground pools (pg. 88) - do we want to mention excavated fill removed from floodplain here?
166	4.7.2.3 One Zone – Permitted	Recommend the reference to “sewage disposal system” be changed to “on-site sewage disposal system”. Sewage disposal system could be interpreted as a public sewage disposal system (i.e. sewer infrastructure.) If “sewage disposal system” is referenced elsewhere in the document I would recommend changing.
167	4.7.3	“b) the application of a Two-Zone Policy Area is supported by the SVCA and the municipality after due consideration of a number of community-related and technical factors,” >add a comma after “factors”
168	4.7.3.2 d) (construction/reconstruction)	Amend to “For new construction, safe access (Section 4.7.5) is achievable where feasible, can be achieved; and for reconstruction safe access should be achieved where feasible”. All new development must have safe access in accordance with planning policies.
169	4.7.3.2 e. (construction/reconstruction)	The max depth a basement should be permitted below the floodplain is 1.0 metres – for public safety. This policy is common, and supported in general in appendix 6 of the MNR 2002 doc. Proposed wording: “no basement is proposed, or the basement floor is no greater than 1.0 metre below the regulatory floodplain, and is floodproofed to the elevation of the Regulatory Flood. Structural engineering shall be required to ensure hydrostatic uplift and side pressure, velocity, impact loading, and waterproof design are addressed.” The above would allow for a crawl space and adding the word “shall” will limit interpretation between reviewing staff = more consistency. Looks better at OLT, Ombudsmen, etc.
170	4.7.3.2 f. (construction/reconstruction)	Amend wording to “for new construction, all habitable floor space and electrical, mechanical and heating services are above the elevation of the Regulatory Flood, and...
171	4.7.3.2 g. (construction/reconstruction)	Delete clause g. in its entirety. Does not conform to Planning policy. Reconstruction is new development and habitable space should not be permitted below the floodplain. Crawl spaces only as per my recommendation above.
172	4.7.4	Add policy that basement floors shall be no lower than 1.0 metres below the regulatory floodplain – see comments above for 4.7.3.2 e.
173	4.7.4.2.	Wet flood-proofing. Not sure of the source for some of the criteria listed, but suggest discussion on some – eg. b, c, h, i.
174	4.7.4.3 d)	the responsible engineer shall also “provide” all operation and maintenance requirements....



ID	Section	Consultation Comment
177	4.7.5	Cut/fill should be its own policy number vs. Included as part of 4.7.5.
175	4.7.5 (safe access)	Review these two sections – most of the information in 4.7.5 is repetitive to 3.7.1.8 - they should be the same – I recommend safe access policies be located in the planning section and referred to in s. 4. Keep 3.7.1.8 intro and policies as is - they contain same policies as 4.7.5 - just need to add “the product of flooding depth and velocity” to 3.7.1.8.
178	4.7.5 page 98	Cut/fill analysis. Concern here that addressing/assessing impact not as simple as a cut/fill as you are possibly affecting both conveyance and storage. May need full floodplain impact assessment. Also need to develop more detailed cut/fill requirements.
176	4.7.5. Safe Access	I would ask that the SVCA reconsider the proposed change from .8 meters under regulatory storm conditions down to .3 meters under regulatory flood conditions. I have had to deal with this multiple times where the SVCA has told prospective developers that they need Fire to provide a letter with written confirmation regarding access under flooding conditions. In both cases the SVCA could provide no data with regards to how they arrived at the “estimated flood levels”. In both cases it prolonged and delayed the permit process and I had discussion with SVCA staff regarding them passing off responsibility with regards to decisions made on development in “flood zones” to emergency management with estimated data. Lowering this number will only increase the amount of developers being offloaded to the Fire Chiefs which I believe to be a waste of Municipal services time! I have presented this proposed change to the Bruce County Chiefs Association and have all Bruce County Chiefs support in this request for review of this proposed change. Sincerely,
179	4.7.6.1	Inland Lakes-why the 15m/30m Required vs. Encouraged. Perhaps no distance should be listed. Instead no development in the hazard. If the distance is for hazard reason, then ok, if ecological, then should be removed. MO
180	4.7.7.1	New Dug Out/ Isolated Pond - Permitted – this section is encouraging to see. This could allow considering irrigation pond potential, for livestock , long term crop use (vegetables).
181	4.8.1 bottom of page 102	Technical Analysis for Riverine Erosion Hazards - should read “Technical studies should be carried out by a qualified professional “engineer”.
182	4.8.2.1	Argue that this section is not appropriate and conflicts with 4.8.3. Also has implications for 4.8.3.2
183	4.8.3.2	“Development associated with Existing Uses”- What constitutes "feasible"? The impact to a farm operation use or loss of prime farmland? How can both impact for user/owner and environment be considered?
184	4.8.3.2	“Reconstruction or Relocation of a building that has not been damaged or destroyed by erosion” c. will not to exceed original habitable floor area. If conditions met in development section, why can't an expansion be considered?
191	4.9 Pg. 115	“EIS” or should this be a “natural hazard EIS”. If so then do we have TOR for natural hazard EIS?
192	4.9.1.3	Systematic Agricultural Tile Drainage Section a. is a priority and standard. Section b. why is this here? It should not be needed, and lacks detail which could cause discrepancies in application. This can open an issue with a licensed drainage contractors who work under the Ag Tile Installation Act, under which they must follow legislation or risk losing their licenses.
194	4.9.2 and 4.9.1.3	Should include the following permitted use, same as other hazard features section policies: “activities associated with construction of driveway or similar to provide access to lands outside/beyond the wetland”. Also for what is permitted in this section what is a “minor trail/access lane”? Also the numbering appears off.

ID	Section	Consultation Comment
193	4.9-2, 4.9.1.2 and 4.9.1.3	fix this policy # typo. Should be 4.9.1.2. Will require bumping subsequent policies down one number.
207	Appendices	Fix page numbers in appendices and in the document total.
208	Appendix A	<p>A Glossary of Terms</p> <p>Buffers</p> <ul style="list-style-type: none"> <li>- The definition for Buffers is associated with natural heritage features and was adapted from Ontario Ministry of Natural Resources' Natural Heritage Reference Manual, 2nd Edition, 2010.</li> <li>- Natural Heritage features are no longer part of the SVCA purview.</li> <li>- This definition should either be removed or updated appropriately to remove the reference to natural heritage features if the term is used in a different context within the manual.</li> </ul> <p>Development</p> <ul style="list-style-type: none"> <li>- "As defined by the Planning Act"</li> <li>- The Planning Act doesn't have a general definition of development; development is defined in relation to specific Sections of the Planning Act (i.e. Section 41 Ste Plan Control Area).</li> <li>- The definition of Development from the Provincial Planning Statement (PPS, 2024) should be used.</li> </ul> <p>Wetland (as defined by the Provincial Policy Statement)</p> <ul style="list-style-type: none"> <li>- Should be updated to the Provincial Planning Statement (PPS, 2024) definition.</li> </ul> <p>Woodlands</p> <ul style="list-style-type: none"> <li>- 2014 PPS referenced</li> <li>- Should be updated to the Provincial Planning Statement (PPS, 2024) definition.</li> </ul> <p>General</p> <ul style="list-style-type: none"> <li>- Various definitions that only appear in the Glossary and are not found within the Manual, including those related to Natural Heritage that no longer fall under the purview of the SVCA, should be removed from the manual (i.e. Endangered Species [federal], Endangered Species [provincial], Natural Heritage System, Lot of Record, etc.)</li> </ul>

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209	Appendix A	<p>A Glossary of Terms</p> <p>Buffers</p> <ul style="list-style-type: none"> <li>- The definition for Buffers is associated with natural heritage features and was adapted from Ontario Ministry of Natural Resources' Natural Heritage Reference Manual, 2nd Edition, 2010.</li> <li>- Natural Heritage features are no longer part of the SVCA purview.</li> <li>- This definition should either be removed or updated appropriately to remove the reference to natural heritage features if the term is used in a different context within the manual.</li> </ul> <p>Development</p> <ul style="list-style-type: none"> <li>- "As defined by the Planning Act"</li> <li>- The Planning Act doesn't have a general definition of development; development is defined in relation to specific Sections of the Planning Act (i.e. Section 41 Ste Plan Control Area).</li> <li>- The definition of Development from the Provincial Planning Statement (PPS, 2024) should be used.</li> </ul> <p>Wetland (as defined by the Provincial Policy Statement)</p> <ul style="list-style-type: none"> <li>- Should be updated to the Provincial Planning Statement (PPS, 2024) definition.</li> </ul> <p>Woodlands</p> <ul style="list-style-type: none"> <li>- 2014 PPS referenced</li> <li>- Should be updated to the Provincial Planning Statement (PPS, 2024) definition.</li> </ul> <p>General</p> <ul style="list-style-type: none"> <li>- Various definitions that only appear in the Glossary and are not found within the Manual, including those related to Natural Heritage that no longer fall under the purview of the SVCA, should be removed from the manual (i.e. Endangered Species [federal], Endangered Species [provincial], Natural Heritage System, Lot of Record, etc.)</li> </ul>
210	Appendix A Glossary of Terms	Replacement/Reconstruction - suggest revising to specify "like-for-like" to distinguish between this and new development - especially for shoreline where replacement is often very different/much larger than existing and should be treated as new development.
211	Appendix A Glossary of Terms	Wetland as defined by PPS should be PPS (planning) not PPS (policy).
212	Appendix C	<p>Administrative review policies</p> <ul style="list-style-type: none"> <li>- 6. Authority (or Delegate) Powers (insert resolution number here)</li> <li>- Clarification is needed. Is this proposed? Or has the Authority passed a motion to delegate Ontario Regulation 41/24 Section 8 Request for Review powers to the General Manager / Secretary-Treasurer?</li> <li>- 12. Administrative Review Policies – Updates – The Authority will review and update the Administrative Review Policies consistent with the CA's Service Delivery Standards for Administration of Ontario Regulation 41/24.</li> <li>- What are the CA's Service Delivery Standards for Administration of Ontario Regulation 41/24?</li> </ul>

ID	Section	Consultation Comment
213	Appendix C	<p>Administrative review policies</p> <ul style="list-style-type: none"> <li>- 6. Authority (or Delegate) Powers (insert resolution number here)</li> <li>- Clarification is needed. Is this proposed? Or has the Authority passed a motion to delegate Ontario Regulation 41/24 Section 8 Request for Review powers to the General Manager / Secretary-Treasurer?</li> <li>- 12. Administrative Review Policies – Updates – The Authority will review and update the Administrative Review Policies consistent with the CA’s Service Delivery Standards for Administration of Ontario Regulation 41/24.</li> <li>- What are the CA’s Service Delivery Standards for Administration of Ontario Regulation 41/24?</li> </ul>
214	Appendix D	<p>Section 28.1 Hearing Guidelines</p> <ul style="list-style-type: none"> <li>- Appendix D – Notice of Decision – Appeal to the Minister – send a letter to the Minister within 90 days to the Ontario Land Tribunal.</li> <li>- Conservation Authorities Act Section 28 Appeals can be submitted on-line though the Ontario Land Tribunal (OLT) E-file Portal using OLT Appeal Form (A1) and Checklist Section 6 Mining Claim and Conservation Matters.</li> <li>- The Hearing Guidelines should be updated to ensure applicants/appellants are aware of OLT appeal filing process, including the on-line appeal options.</li> </ul>
215	Appendix D	<p>Section 28.1 Hearing Guidelines</p> <ul style="list-style-type: none"> <li>- Appendix D – Notice of Decision – Appeal to the Minister – send a letter to the Minister within 90 days to the Ontario Land Tribunal.</li> <li>- Conservation Authorities Act Section 28 Appeals can be submitted on-line though the Ontario Land Tribunal (OLT) E-file Portal using OLT Appeal Form (A1) and Checklist Section 6 Mining Claim and Conservation Matters.</li> <li>- The Hearing Guidelines should be updated to ensure applicants/appellants are aware of OLT appeal filing process, including the on-line appeal options.</li> </ul>
216	Appendix D: Hearing Guidelines	Add CO Guidelines for all Hearing types.

## Report EPR-2025-06

**Report to:** Chair and Directors, Saugeen Valley Conservation Authority  
**From:** Darren Kenny, Regulations Coordinator  
**Date:** May 15, 2025  
**Subject:** Status of Active Violations  
**Purpose:** To provide an update on the status of violations under Ontario Regulation 169/06, as amended and Ontario Regulation 41/24.

### Background

By Board Motion #G21-84, staff are directed to provide updates to the Board on the number of active violation files.

### Analysis

SVCA staff are presently managing 54 active violation files (current to April 28, 2025), and have rated them in accordance with the categories in the table below. Statistics from the previous reporting period (November 2024) are included for comparison:

Violation Rating and Description	Apr 2025	Nov 2024
<b>(1) Trivial activities not worth pursuing beyond initial contact to educate.</b> e.g., inconsequential site alteration; certain types of vegetation removal, etc.	1	1
<b>(2) Activities unlikely to cause significant damage affecting the tests of the Regulation, the health and safety of persons, or property.</b> e.g., development or alteration activities that usually comply with the EPR Policies Manual.	27	36
<b>(3) Activities likely to cause significant damage affecting the tests of the Regulation, the health and safety of persons, or property.</b> e.g., development or alteration activities that usually do not comply with the EPR Policies Manual without a favourable outcome from a technical report.	26	31
<b>(4) Activities very likely to cause imminent and significant damage affecting the tests of the Regulation, the health and safety of persons, or property.</b> e.g., development or alteration activities that do not comply with the EPR Policies Manual, are not likely to be supported by a technical report, and require immediate corrective action.	0	0
<b>TOTAL</b>	<b>54</b>	<b>68</b>

## Discussion

Staff are managing 14 fewer violation files now compared with November, 2024.

Staff continue to resolve violations through compliance approvals and site remediation where possible.

Two violation files are presently in Provincial Offences Court. A decision has been rendered on one of these files in the SVCA's favour, but remediation by the landowner is still pending. The second file is awaiting a trial date.

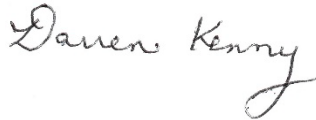
## Strategic Plan Linkages

A1.6 – Accessibility

E1.5 – Liability Assessment and Action

C1.8 – Violations Decrease

Prepared by:



Darren Kenny  
Regulations Coordinator

Approved by:

[Original Signed by:]

Matt Armstrong  
Manager, Environmental Planning and Regulations

Approved by:

[Original Signed by:]

Erik Downing  
General Manager/Secretary-Treasurer

## Report EPR-2025-07

**Report To:** Chair and Directors, Saugeen Valley Conservation Authority

**From:** Matt Armstrong, Manager, Environmental Planning and Regulations

**Date:** May 15, 2025

**Subject:** Request for Endorsement: Permits Issued

**Purpose:** To seek endorsement for permits issued pursuant to Section 28.1 (1) of the *Conservation Authorities Act*.

### Recommendation

THAT SVCA permit applications 25-026 to 25-046 as approved by staff, be endorsed.

### Background

Saugeen Valley Conservation Authority (SVCA) staff issue permits in accordance with SVCA policies and then present them to the Board for endorsement at each Authority meeting.

The list below includes the 21 permits issued between March 2<sup>nd</sup> and May 1<sup>st</sup>, 2025.

Permit	Location	Proposed Works
25-046	Greenock	To decommission an existing septic tank and install a new septic system, with related excavation, filling and grading.
25-045	Artemesia	Construction of a new two-storey addition with basement, one-storey screened porch addition on piers, attached garage, 360 square foot pool, wooden deck, sewage disposal system, and to demolish and rebuild an existing detached one-storey garage and extend an existing gravel driveway, with related excavation, filling and grading.
25-044	Greenock	To modify the Zettler Municipal Drain, including enclosing and re-grading sections of watercourse, with related excavation, filling and grading.
25-043	Culross	Watercourse alteration (Teeswater River) consisting of the installation of fibre-optic cable (Project 392-1-SA01-S284_A1 through A3) by horizontal directional drill with water and within floodplain by horizontal directional drill and plow with related excavation and grading.
25-042	Normanby	To clean out an existing pond with outlet to a watercourse, and excavate a retaining pond for spoil placement.
25-041	Huron	Demolition of an existing single-story residence and construction of a new 1, 704 sq. ft. (158.3 sq. m.) single-story residence with related excavation, filling and grading.
25-040	Brant	To replace Structure 16 - a 6.18 metre long, 4.9 metre span by 0.97 metre rise open box culvert, with a 18 metre long, 5 metre span by 1.8 metre rise box culvert; and to construct four 2.4 metre long concrete retaining walls, with related excavation, filling, and grading.
25-039	Carrick	Completion of upgrades to the existing municipal sanitary sewer upstream of the sewage pumping station (Project 24065) with related excavation, filling and grading.

Permit	Location	Proposed Works
25-038	Culross	Relocation of a 25-metre section of an existing gas main by horizontal directional drill, with related excavation and grading.
25-037	Teeswater	Watercourse alteration (Teeswater River) consisting of the installation of fibre-optic cable (Project 392-1-SA02-W-A2 & S284-A2) by horizontal directional drill with water and within floodplain by horizontal directional drill and plow with related excavation and grading.
25-036	Bentinck; Normanby	For the alteration of the South Saugeen River by horizontal directional drill using drilling mud; the alteration of watercourses by horizontal directional drill using water; and works within floodplain and adjacent to wetland by horizontal directional drill and plow, consisting of the installation of fibre optic cable, with related excavation and grading.
25-035	Holland	To install new systematic farm drainage tile and 8" drain outlet to a wetland with related excavation and grading.
25-034	Brant	To demolish a 1014 square foot existing cottage; to construct a 3410 square foot cottage, with a covered and uncovered deck; and to install a septic system, with associated excavation, filling, and grading.
25-033	Walkerton	Excavation, filing, and grading, within 30 metres from wetlands.
25-032	Brant; Hanover	For the alteration of the Saugeen River by horizontal directional drill using drilling mud; the alteration of a watercourse by horizontal directional drill using water; and works within floodplain and adjacent to wetland by horizontal directional drill and plow, consisting of the installation of fibre optic cable, with related excavation and grading.
25-031	Culross	To install new systematic farm drainage tile in the agricultural field in the northern portion of the property to be connected to existing tile drainage with related excavation and grading.
25-030	Minto	Alteration of a watercourse consisting of the installation of fibre-optic cable by directional drilling using water and works adjacent to wetland by plow and associated excavation and grading (Project IFA - SVCA - 510-2-SA13-S28-A2 (Drawing 102)).
25-029	Brant	For the alteration of a watercourse by horizontal directional drill using only water, and works within floodplain and adjacent to wetland by horizontal directional drill, consisting of the installation of fibre optic cable, with related excavation and grading.
25-028	Huron	Construction of a one-story, 1,140 square foot detached cottage with concrete patio and septic system replacement with related excavation, filling and grading.
25-027	Durham	To remove the existing 850 square foot warehouse and construct a new 1600 square foot warehouse, and install a new stormwater drainage system with associated excavation, filling and grading.
25-026	Egremont; Normanby	Alteration to a watercourse and works adjacent to wetland consisting of the installation of fibre-optic cable by directional drill (Project 509-2-SA16-C-A2 - McFarlin Dr) and associated excavation and grading.

### Strategic Plan Linkages

A1.6 – Accessibility;  
E1.7 – Expertise;  
R1.3 – Resiliency;  
R1.8 – Resiliency;



Prepared by:  
[Original Signed by:]  
Matt Armstrong  
Manager, Environmental Planning and Regulations

Approved by:  
[Original Signed by:]  
Erik Downing  
General Manager / Secretary-Treasurer

**LAN-2025-02**

**Report To:** Chair and Directors, Saugeen Valley Conservation Authority

**From:** Donna Lacey, Manager of Forestry and Lands

**Date:** May 15<sup>th</sup>, 2025

**Subject:** Fence Installation at Durham Conservation Area Update

**Purpose:** To inform the SVCA Board of Directors about changes to Durham Conservation Area

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**Background**

As outlined in Section 12 of Ontario Regulation 688/21, conservation authorities are authorized to designate areas for day-use access, which requires the purchase of a day-use permit. This regulation makes clear that no person shall enter or remain in a designated day-use area without a valid permit, and that use is restricted to the period indicated on the permit. This provision supports the expectation that all visitors contribute to the maintenance and operation of these spaces, even for short-term or casual use, such as walking, cycling, or picnicking. SVCA's 2022 implementation of a modest day-use fee aligns with this regulation and reflects a standard approach to public access across conservation authorities in Ontario.

Ontario Regulation 688/21, "Rules of Conduct in Conservation Areas" under the *Conservation Authorities Act*, defines a range of permitted and prohibited activities within conservation lands. Notably, this regulation includes provisions related to the designation of closure times, stating that no person shall enter or remain in a conservation area during posted closure hours, typically from dusk to dawn. These closures exist for a range of safety, environmental, and operational reasons, including the prevention of illegal camping or "boondocking," reduction of risk to visitors and staff, and minimizing the impact on wildlife during sensitive nighttime hours.

Despite clear signage outlining operational hours and fee requirements, both after-hours use and unpaid daytime access continue to pose significant challenges. As an example, nighttime trespassing has contributed to incidents of littering, unauthorized camping, increased safety concerns, and the use of Durham as a non-paying pass-through route, an approach that undermines the sustainability of this public space.

Durham Conservation Area has, for many years, experienced informal and ongoing use as a pedestrian and cycling thoroughfare connecting nearby neighbourhoods to the Town of Durham. While well-intentioned, this ongoing informal access is no longer compatible with the need to comply with the applicable legislation, ensure public and staff safety, reduce illegal use, and protect the property's ecological integrity.

## Analysis

The installation of a fence at Durham Conservation Area by the Campground is a necessary step in addressing a long-standing issue that puts SVCA at risk of non-compliance with provincial legislation, places unnecessary strain on staff resources, and increases operational costs.

By clearly defining the boundary and physical access points of the property, the fence will:

- Support enforcement of closure hours (dusk to dawn) under O. Reg. 688/21
- Deter illegal activities such as boondocking and vandalism
- Reduce theft and unauthorized access to the campground and day-use areas, particularly after hours
- Reduce littering and other maintenance demands, resulting in financial and operational savings over time
- Provide clarity for law enforcement and emergency response personnel about when and where the public is expected to be on the property
- Support staff safety by limiting the unpredictability of unsanctioned use
- Enable wildlife to occupy the space at night undisturbed, aligning with best practices in conservation
- Increase equity and fairness by ensuring that those accessing the area contribute to its upkeep

Costs associated with Durham Conservation Area include property tax, insurance, staff time, garbage removal, infrastructure maintenance, signage, and liability preparedness. The current access model, which allows individuals to routinely use the site without contributing to its upkeep, is unsustainable.

The implementation of a low-cost membership access introduced in 2022, at \$5 per day or \$55 annually, is the most affordable across Conservation Authorities in Ontario. These modest fees represent a small portion of the real cost of maintaining the conservation area and are vital to the long-term stewardship of the site. Visitors who pay for access are also more likely to respect the property, follow posted rules, and contribute to a positive, shared experience for all users.

In response to public feedback, and in the interest of inclusivity, SVCA will be providing three complimentary annual passes at local libraries in the Durham area. These will be made available for individuals or families who may experience financial barriers, ensuring that all members of the community can continue to enjoy access.

## Next Steps

In preparation for the installation of the fence and the rollout of enforcement measures, SVCA will undertake a community outreach and consultation process. In addition to this report to the SVCA Board of Directors, planned engagement activities include:

- Correspondence to West Grey Council outlining this change to Durham Conservation Area
- Flyer distribution in local neighborhoods surrounding the conservation area
- A media release to local news outlets
- A series of social media posts

- Updates to the SVCA website and relevant signage on site

These actions are intended to ensure transparency and reduce misinformation.

### **Financial Implications**

The fence installation was approved in the 2025 SVCA Budget at a cost of \$40,000. This capital expenditure is a proactive investment in safety, compliance, and long-term property stewardship. Over time, it is expected that this investment will contribute to operational cost savings by reducing unauthorized access, damage, and maintenance demand.

### **Conclusion**

The proposed fence at Durham Conservation Area is a practical, responsible, and regulatory-aligned measure. It balances public safety, conservation goals, operational sustainability, and community engagement. While we recognize that change in access to public spaces can be sensitive, this initiative reflects a necessary step toward responsible land management and compliance with provincial regulations.

SVCA remains committed to being a good neighbour while upholding the mandate entrusted to us under the *Conservation Authorities Act*.

### **Strategic Plan Linkages**

A1.2 – Access, Safety Plans and Action  
 C1.3 – Connection, Communications Campaigns and Actions  
 C1.4 – Connection, Provincial Offences Campaigns and Actions  
 C1.6 – Connection, Customer Service Standards  
 R1.1 – Resiliency, Revenue Generation Planning and Action

Prepared by:

[Original signed by: ]

Donna Lacey

Forestry and Lands Manager

Approved by:

[Original signed by: ]

Erik Downing

General Manager / Secretary-Treasurer

**Letter To:** Municipality of West Grey Council

**From:** Erik Downing, General Manager/Secretary-Treasurer  
Saugeen Valley Conservation Authority

**Date:** April 3, 2025

**Subject:** Fence Installation at Durham Conservation Area

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Dear Mayor Eccles and Members of Council,

I am writing on behalf of Saugeen Valley Conservation Authority (SVCA) to inform you of an upcoming project at Durham Conservation Area planned for 2025: the installation of a fence bordering the Durham Conservation Area Campground to support regulatory compliance, operational efficiency, and enhanced public and environmental safety.

Despite clear signage and ongoing enforcement efforts, Durham Conservation Area continues to experience significant challenges related to after-hours trespassing, unauthorized camping, and unpaid daytime use. The property has also been increasingly used as an informal thoroughfare. While we understand this reflects a history of local use, this pattern is not aligned with the legal and operational standards now required of SVCA properties.

The installation of a fence will provide a clear boundary for the site and help to:

- Enforce regulated closure times from dusk to dawn
- Deter squatting, vandalism, theft, and other unauthorized and illegal activity
- Reduce littering and associated maintenance demands
- Improve safety for staff, emergency responders and the public
- Allow for undisturbed wildlife activity during overnight hours
- Promote fairness among visitors who contribute to property upkeep through valid memberships

This measure is in direct alignment with Ontario Regulation 688/21: Rules of Conduct in Conservation Areas, which defines permitted uses, including the requirement for day-use permits and restricted access from dusk to dawn. These regulations are intended to support safe, equitable, and sustainable use of conservation lands, as well as protect the natural environment and reduce risks to visitors, staff, and emergency responders.

Since 2022, Durham Conservation Area has offered access through a low-cost membership model: \$5 per day or \$55 annually, among the lowest fees across conservation authorities in Ontario. These modest fees help offset the significant costs of property management, including infrastructure, staffing, insurance, and ongoing maintenance. Visitors who pay for access are also more likely to respect posted rules and treat the site responsibly.

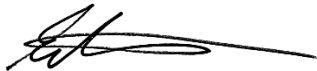
To ensure inclusive access, SVCA intends to place three complimentary annual passes at local libraries in the Durham area for individuals or families who may experience financial barriers.

In the coming weeks, SVCA will begin a community outreach and engagement campaign that includes:

- This letter of correspondence to West Grey Council
- Update to SVCA Property and Parks Committee, and Board of Directors
- Distribution of informational flyers in the local neighbourhood
- A public media release and series of social media updates
- Updated signage at Durham Conservation Area

We trust that this change will contribute to improved public safety, better property stewardship, and enhanced compliance with the *Conservation Authorities Act*. We remain committed to being a good neighbour and working collaboratively with West Grey and its residents. Should you or your staff have any questions or wish to discuss the project further, we would welcome the opportunity to do so.

Sincerely,



Erik Downing  
General Manager/ Secretary-Treasurer  
Saugeen Valley Conservation Authority  
1078 Bruce Road 12, Box 150  
Formosa ON N0G 1W0  
[e.downing@svca.on.ca](mailto:e.downing@svca.on.ca)  
(519)364-1255 ext. 241

CC: Donna Lacey, Manager, Forestry and Lands

## LAN-2025-03

**Report To:** Chair and Directors, Saugeen Valley Conservation Authority  
**From:** Donna Lacey, Manager of Forestry and Lands  
**Date:** Thursday, May 15<sup>th</sup>, 2025  
**Subject:** Options for Future Management of Varney Conservation Area  
**Purpose:** To provide an update to the Board of the recommendation from SVCA Property and Parks Committee regarding the status of Varney Conservation Area, and to seek direction for next steps

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### Background

Varney Conservation Area is a 4.6-hectare (11.4-acre) parcel located in the hamlet of Varney, within the Municipality of West Grey. The property was acquired for fair market value by Saugeen Valley Conservation Authority (SVCA) in 1954 and has historically provided passive day-use recreation opportunities for the public, including access to a man-made pond filled each spring via a temporary diversion from a tributary of Camp Creek.

While the property has provided value to the local community over the decades, maintenance and cost recovery has been a source of ongoing discussion by the Authority for decades. In 1993, through Motion #G93-118, Section 7 of Varney Conservation Area was declared surplus to the needs of the Authority, and staff were directed to initiate procedures for its disposal. Although full disposal of the site was not pursued at that time, this decision marked the beginning of a long-standing effort to evaluate the site's future.

At the May 5<sup>th</sup>, 2025 meeting of the SVCA Property and Parks Committee unanimously voted to recommend Option #4, Disposal of the Property, to the Board of Directors.

### Environmental and Structural Challenges

In 2023, a series of internal reviews raised concerns about the long-standing practice of filling the pond via a temporary diversion of a watercourse. Staff became aware that this practice may not meet regulatory standards under the Fisheries Act, Conservation Authorities Act, and other relevant legislation. The Property and Parks committee passed Motion #PPC-23-04, that the Varney Pond not be filled with water and closed to swimming due to health, insurance and environmental concerns. The SVCA Board then passed Motion #G23-60, which directed staff to suspend the filling of Varney Pond until further notice to allow time for environmental and engineering assessments.

A comprehensive external inspection was completed in June 2023 by D.M. Wills Associates. This assessment covered the dam and berm, inlet and outlet structures, and broader site safety.

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While the dam was generally in stable condition, several critical safety and infrastructure deficiencies were identified, including:

- Inadequate railings and unsecured grating on outlet structures
- Safety risks associated with swimming and jumping from the outlet structure
- Tree growth compromising berm integrity
- Absence of a Public Safety Risk Assessment or Plan
- Significant structural deterioration and erosion

The inspection also documented at least two prior drownings, one involving an individual being pulled into the outlet pipe. No fatalities have occurred since modifications were made, but the SVCA insurer advised that safety risks remain significant.

In 2024, SVCA applied to the Department of Fisheries and Oceans (DFO) for authorization to divert water into the pond, and initiated dialogue with the Ministry of Transportation, MNRF, MECP, and other regulatory authorities. Each agency has flagged the need for environmental approvals and operational oversight, with no clear path forward for restoring historic operations.

### **Public and Municipal Input**

Local residents and municipal representatives have expressed a desire to see the pond reopened, citing recreational value and heritage. However, municipal officials have also acknowledged the significant costs and regulatory hurdles involved. A meeting in April 2024 between SVCA's General Manager and the Mayors and Deputy Mayors of West Grey and Southgate explored collaborative options, but no formal commitment to partnership or cost-sharing was made.

### **Budget Constraints and Regulatory Pressures**

Varney is classified as a non-revenue park. It generates no direct income and is maintained within the limited budget allocated to SVCA's portfolio of similar properties. In recent years, the total budget for all non-revenue park maintenance has been \$50,000, which includes staff time and materials across multiple sites. None of the engineering, remediation, or permitting costs associated with Varney are included in this existing allocation.

## **Analysis**

Staff developed four options for the Property and Park Committee's consideration and staff have included all four as presented for the Board. Each option reflects a different approach to the future of Varney Conservation Area:

### **Option 1 – Tree Buffer Planting**

Planting five rows of cedar trees would obscure the view of the unmaintained pond and outlet structures from the road, which may reduce local concern about the site's condition and help create a more natural space.

Considerations:



- Does not eliminate safety risks identified by our insurers
- Would require continued maintenance

### **Option 1 – Tree Buffer Planting Financial Implications**

Planting five rows of cedar trees to visually obscure the pond and outlet structures from the roadway would require an initial investment of approximately \$1,000, including trees and planting. Annual operating costs, including property taxes, hydro (where applicable), and general maintenance (such as mowing and tree care), are estimated at \$2,500 per year. An additional \$3,000 annually would be required for basic site monitoring, staff inspections, and liability coverage. Over ten years, this option is expected to cost approximately \$56,000.

### **Option 2 – Ecological Restoration**

This option would convert the pond basin into a naturalized area through the addition of organic soils and native vegetation to create pollinator or wetland habitat.

Considerations:

- Supports SVCA's conservation goals
- Still requires ongoing maintenance, site monitoring, and invasive species management
- Regulatory approvals and design work would be required
- Would not fully eliminate liability unless access is restricted or public use is discontinued

### **Option 2: Ecological Restoration Financial Implications**

Naturalizing the pond basin by introducing organic soils and native vegetation would involve a one-time cost of roughly \$70,000. This includes environmental design, planting, and habitat preparation. Annual operating costs, including tax and maintenance, are estimated at \$3,500, with an additional \$4,000 per year required for monitoring, invasive species control, and liability. Over a ten-year period, this option would cost an estimated \$145,000.

### **Option 3– Recreational Retrofit (e.g., Volleyball Court)**

This concept proposes repurposing the dry pond basin into a recreational feature such as a sand volleyball court, in response to municipal interest in local recreation opportunities.

Considerations:

- Provides a visible public benefit but introduces new infrastructure and insurance risks
- Requires continued site management and amenities maintenance
- Adds to staff workload and budget needs without producing revenue
- May create public expectation for additional features (upgrades to washrooms, parking)

### **Option 3: Recreational Retrofit Financial Implications**

Repurposing the dry pond area as a recreational facility such as a volleyball court would cost approximately \$70,000 upfront, including excavation, grading, and equipment installation. Ongoing costs, including property taxes, hydro, and site upkeep, would amount to around \$6,000 annually. Insurance, signage, and general liability management would add another \$5,000 per year. Over ten years, this option is projected to cost a minimum of \$180,000.

#### **Option 4 – Disposal of the Property (Recommended by Property and Parks Committee, May 5<sup>th</sup>, 2025, #PPC25-04)**

This option involves initiating the disposal of the Varney Conservation Area in whole, either through sale or transfer, depending on legal and regulatory requirements.

Key Benefits:

- Aligns with 1993 direction (Motion #G93-118)
- Removes liability and safety risks, particularly those related to water use and recreational activities
- Eliminates future financial obligations, including maintenance, hydro, insurance, and infrastructure upgrades
- Frees staff and budget capacity for other non-revenue park maintenance
- This option requires minimal up-front investment (legal, appraisal, and administrative costs), and results in long-term operational savings

#### **Option 4: Disposal of the Property Financial Implications**

Disposing of the Varney Conservation Area would result in the lowest overall cost to SVCA. Initial expenses would be limited to one-time legal, appraisal, and administrative fees, and could be approximately \$10,000. Once disposed, the property would no longer require insurance, maintenance, hydro, or staff oversight, thereby eliminating all ongoing operational costs. In 2024, the two parcels were valued at approximately \$180,000, disposal of the property would generate revenue that could be used for either land securement or maintenance of non-revenue parks. Revenue from disposal would cover all costs associated with this option at a minimum.

#### **For Context – Rehabilitating the Pond**

Restoring the pond at Varney Conservation Area and in hopes of compliance with all safety and regulatory standards is estimated to cost at least \$800,500 (2024 pricing). This figure is a minimum estimate. Given SVCA's budget and staffing limitations, full restoration is not feasible. The cost would likely exceed \$1 million over time due to inflation, unforeseen conditions, or additional regulatory requirements. Further, there is no guarantee that future changes to environmental or public health regulations would permit the restoration and use of the pond for recreational purposes.

At the Property and Parks Committee Meeting on May 5<sup>th</sup>, 2025, a question arose regarding a perceived increase in the estimated cost of rehabilitating the pond. To clarify, the estimated cost for fulsome rehabilitation has not increased beyond anticipated inflation. The figure of \$800,500 was reported at the May 6<sup>th</sup>, 2024, Executive Committee meeting to provide a representation of the total estimated cost of rehabilitation. This was necessary because various cost categories (high, medium, and low timelines, and component estimates) were previously mistaken as a total cost.

In July 2023, staff presented the findings of the D.M. Wills 2023 Dam Inspection Report, which outlined basic maintenance costs and identified \$100,000 for the replacement of the outlet

component alone. The report's comments highlighted the need for further studies and identified specific costs, including \$22,500 for two-year recommendations and \$147,000 for five-year recommendations. These figures reflected limited maintenance and did not include the costs of necessary studies, staff time, or potential modifications required by regulatory authorities.

At the May 6<sup>th</sup>, 2024, meeting, SVCA staff emphasized that the \$177,500 for initial remediation excluded SVCA staff time, engineering expenses, permitting, and implementation of recommendations from required assessments, including the Public Safety Risk Assessment and Public Safety Plan. The \$800,500 estimate was calculated to account for anticipated critical studies and actions, including fluvial assessments, floodplain reports, fisheries assessments, geotechnical assessments, dam safety review, and hazard classification. This approach ensures a realistic understanding of the financial scope, highlighting that the \$800,500 figure is a true baseline. Annual maintenance costs associated with recommendations (including but not limited to: railings, berm integrity, dam structure, fencing, water quality testing and remediation) have not been calculated as the full breadth of assessments and associated recommendations are not known.

D.M. Wills Associates Limited is a respected engineering firm based in Peterborough, Ontario, providing civil, structural, water resources, and environmental services since 1988. Their team includes licensed Professional Engineers (P.Eng.), Certified Engineering Technologists (CET), and specialists with advanced qualifications in planning and environmental science. D.M. Wills has been entrusted with significant projects by major public-sector clients, including the Ontario Ministry of Transportation, Peterborough Regional Health Centre, Trent University, and various municipalities across the province. In SVCA staff experience, D.M. Wills delivers precise, reliable inspection services backed by deep technical expertise. Their reports are comprehensive and professionally presented, making them a valuable partner in SVCA projects.

## **Summary**

The Varney Conservation Area is a non-revenue-generating property that requires substantial capital investment and increase to the property maintenance budget to bring it into compliance with modern safety, operational, and environmental standards. Engineering reports have documented serious infrastructure and safety concerns, and environmental agencies have raised barriers to continued historical operations. These factors, combined with limited staff capacity and the non-revenue status, place significant strain on SVCA's resources.

The decision before the Property and Parks Committee on May 5<sup>th</sup>, 2025, was whether continued ownership of this property remains feasible with no mechanism for cost recovery. Based on the full body of evidence presented, staff have serious concerns about the viability of retaining the site and submitted this information for the Committee's deliberation.

At the May 5<sup>th</sup>, 2025 meeting of the SVCA Property and Parks Committee unanimously voted to recommend Option #4, Disposal of the Property, to the Board of Directors, (Motion # PPC25-04).

## **Next Steps**

Following a decision from the SVCA Board of Directors regarding the status of Varney Conservation Area, SVCA staff will initiate the following actions to ensure a clear, transparent, and orderly process:

### **1. Public Communications:**

- Develop and issue a public notice outlining the Board's decision, including the rationale, next steps, and anticipated timeline.
- Update SVCA's website with a dedicated section providing background information, a summary of the decision, and a frequently asked questions (FAQ) section to address public inquiries.
- Monitor public feedback and direct inquiries to the appropriate SVCA staff for response.

### **2. Stakeholder Notifications:**

- Formally notify the Municipality of West Grey and other relevant stakeholders, of the Board's decision.
- Provide appropriate municipal and provincial representatives with a copy of the decision and any relevant supporting documents.

### **3. Technical and Regulatory Actions (if disposal is directed):**

- Retain a qualified appraiser to provide an updated valuation of the property.
- Review any outstanding regulatory or environmental concerns with relevant authorities (e.g., Ministry of Natural Resources and Forestry, Ministry of Environment, Conservation and Parks, Department of Fisheries and Oceans).
- Coordinate with SVCA's legal counsel to draft necessary agreements, including terms of sale, transfer documents, etc.

### **4. Operational and Maintenance Planning (if disposal is not approved):**

- Develop a detailed site management plan based on the selected option (tree buffer planting, ecological restoration, or recreational retrofit).
- Allocate required budget and resources for ongoing site management, maintenance, and monitoring.
- Plan for a Request for Proposal for an external engineering firm to review and recommend safety measures for updated retrofit recommendation.

## **5. Reporting and Accountability:**

- Provide updates to the SVCA Board of Directors on progress, including milestones reached and any emerging issues.
- Maintain clear documentation of all communications, decisions, and regulatory correspondence related to the property.

These next steps are designed to ensure a structured and transparent process, regardless of the final decision made by the Board of Directors.

## **Strategic Plan Linkages**

A1.2 – Accessibility; Safety Plans and Action

A1.4 – Accessibility; Property Updates

E1.5 – Expertise; Liability Assessment and Action

C1.3 – Connection; Communications Plans and Action

R1.0 – Resiliency; Development of a Robust, Stable Organization

R1.8 – Resiliency; CA Act Deliverables

Prepared by:

[Original Signed by:]

Donna Lacey

Manager, Forestry and Lands

Approved by:

[Original Signed by:]

Erik Downing

General Manager / Secretary-Treasurer

## LAN-2025-04

**Report To:** Chair and Directors, Saugeen Valley Conservation Authority  
**From:** Donna Lacey, Manager of Forestry and Lands  
**Date:** Thursday, May 15<sup>th</sup>, 2025  
**Subject:** SVCA Staff Provincial Offences Officer Designation  
**Purpose:** To formally designate current SVCA Forestry and Lands staff as Provincial Offences Officers.

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### Recommendation

THAT SVCA Assistant Park Superintendent, Saugeen Bluffs, Mary Lyness and Lands Technician, Nicholas Kunkel be designated by the SVCA Board of Directors as Provincial Offences Officers for the purpose of enforcing Section 29 of the *Conservation Authorities Act*.

### Background

In March 2024, SVCA staff submitted a report to the Board of Directors recommending the appointment of specific staff positions as officers for reviewing Section 28 Permit applications and enforcing SVCA's Section 28 and Section 29 Regulations.

These staff members must be designated as Provincial Offences Officers, requiring appropriate training and qualifications to ensure compliance with legislation and maintain professional standards. Established in 1999 and revised in 2024, these criteria set the qualifications for Provincial Offences Officers. In court, staff may be required to demonstrate proof of their designation and training to confirm their credibility.

### Analysis

As per the *Provincial Offences Act (POA)*, the *Conservation Authorities Act (CAA)* and the class designation / correspondence from the Ministry of Natural Resources (MNR), it has been established that there is an inherent need for a standard set of criteria that each Conservation Authority should apply when appointing an officer to enforce their own respective legislation. Specifically:

- Provincial Offences Act Section 1(3) states "A minister of the Crown may designate in writing any person or class of persons as a provincial offences officer for the purposes of all or any class of offences."

- Conservation Authorities Act Section 28. (1) states: Subject to the approval of the Minister, an authority may make regulations applicable in the area under its jurisdiction, (d) providing for the appointment of officers to enforce any regulation made under this section or section 29; (e) providing for the appointment of persons to act as officers with all of the powers and duties of officers to enforce any regulation made under this section.

The following criteria shall be satisfied when appointing an employee as an “officer” for enforcing Section 29 of the *Conservation Authorities Act*:

1. The officer shall provide proof of a clean criminal record check
2. The officer shall be adequately trained\* in the legislation they are to enforce (i.e. *Conservation Authorities Act, Provincial Offences Act, Trespass to Property Act*).

\*Provincial Regulatory Compliance Foundations Training (or equivalent training) is the most familiar option that has been utilized by Conservation Authorities.

When the qualifying criteria are satisfied, the officer shall be appointed as a Provincial Offences Officer by the respective Conservation Authority Board, in order to enforce Section 29 of the *Conservation Authorities Act* for the respective jurisdiction in which the officer has received the appointment.

The Conservation Authority and Provincial Offences Officer shall each maintain a file of appointments including proof that the “qualifying criteria” have been satisfied, to confirm that staff are properly empowered to enforce the legislation respective to their appointment. The file should be updated on a regular basis to include all relevant training.

## Discussion

The following SVCA Forestry and Lands staff members meet the criteria for Provincial Offences Officer designation:

- **Mary Lyness:** 5 years of experience in lands management.
- **Nicholas Kunkel:** 3 years of security experience.

Staff recommend that the SVCA Board of Directors formally designate Mary Lyness and Nicholas Kunkel as Provincial Offences Officers for the enforcement of Section 29 of the *Conservation Authorities Act*.

## Financial Implications

There are no new financial implications for these designations beyond the costs associated with the criminal record checks, equipment, and officer training that have already been incurred.

### **Strategic Plan Linkages**

E1.5 – Expertise; Liability Assessment and Action

E1.5 – Expertise; Internal Training and Policy

C1.4 – Connection; Provincial Offences

R1.0 – Resiliency; Development of a Robust, Stable Organization

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