
Ausable Bayfield Conservation Authority

Project Committee Meeting
Shoreline Management Plan Update
July 15, 2015



Great Lakes – St. Lawrence River 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 (1997) of the Planning Act



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- !** • WELCOME FROM THE DEPUTY MINISTER
- DISCLAIMER ABOUT THIS CD

- !** • UNDERSTANDING NATURAL HAZARDS
An introductory guide for public health and safety policies 3.1, provincial policy statement

- A** BEACH AND DUNE MANAGEMENT GUIDE

- B** BEDROCK GEOLOGY MAP OF ONTARIO

- C** CROSS-SHORE PROFILE CHANGE MODELS
GREAT LAKES – ST. LAWRENCE RIVER

- D** QUATERNARY GEOLOGY OF ONTARIO MAP
SOUTHERN SHEET

- E** TECHNICAL GUIDE FOR GREAT LAKES –
ST. LAWRENCE RIVER SYSTEM

- PART 1 PHYSICAL FEATURES AND PROCESSES
- PART 2 RECOMMENDED SHORELINE CLASSIFICATION SCHEME
- PART 3 FLOODING HAZARD
- PART 4 EROSION HAZARD
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- F** HAZARDOUS SITES TECHNICAL GUIDE

- G** TECHNICAL GUIDE FOR LARGE INLAND LAKES
 - PARTS 1–2 INTRODUCTION; PHYSICAL FEATURES AND PROCESSES
 - PART 3 RECOMMENDED SHORELINE CLASSIFICATION SCHEME to determine shoreline reaches
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 - PART 10 REFERENCES AND BIBLIOGRAPHY

- H** DOS SOFTWARE PROGRAM USER GUIDE
For Version 1.1 Wave Uprush and Overtopping software find "SPLASH.exe" located on CD in Lakes subdirectory (Macintosh version not available)

- I** STABLE SLOPES – GEOTECHNICAL PRINCIPLES

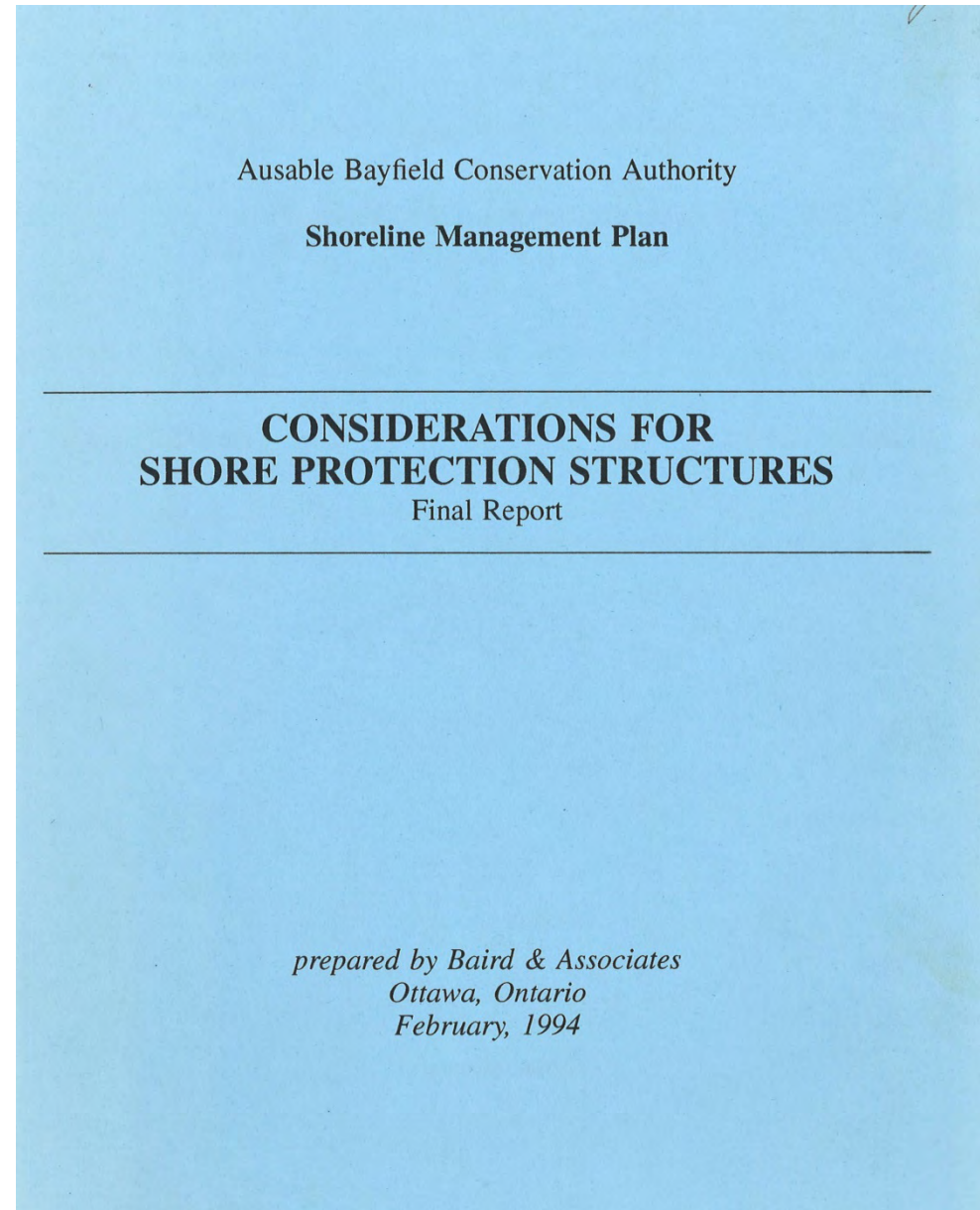
- J** WAVE UPRUSH AND OVERTOPPING
Methodologies and Applications

- K** WHO TO CONTACT

WEB SITE LINKS

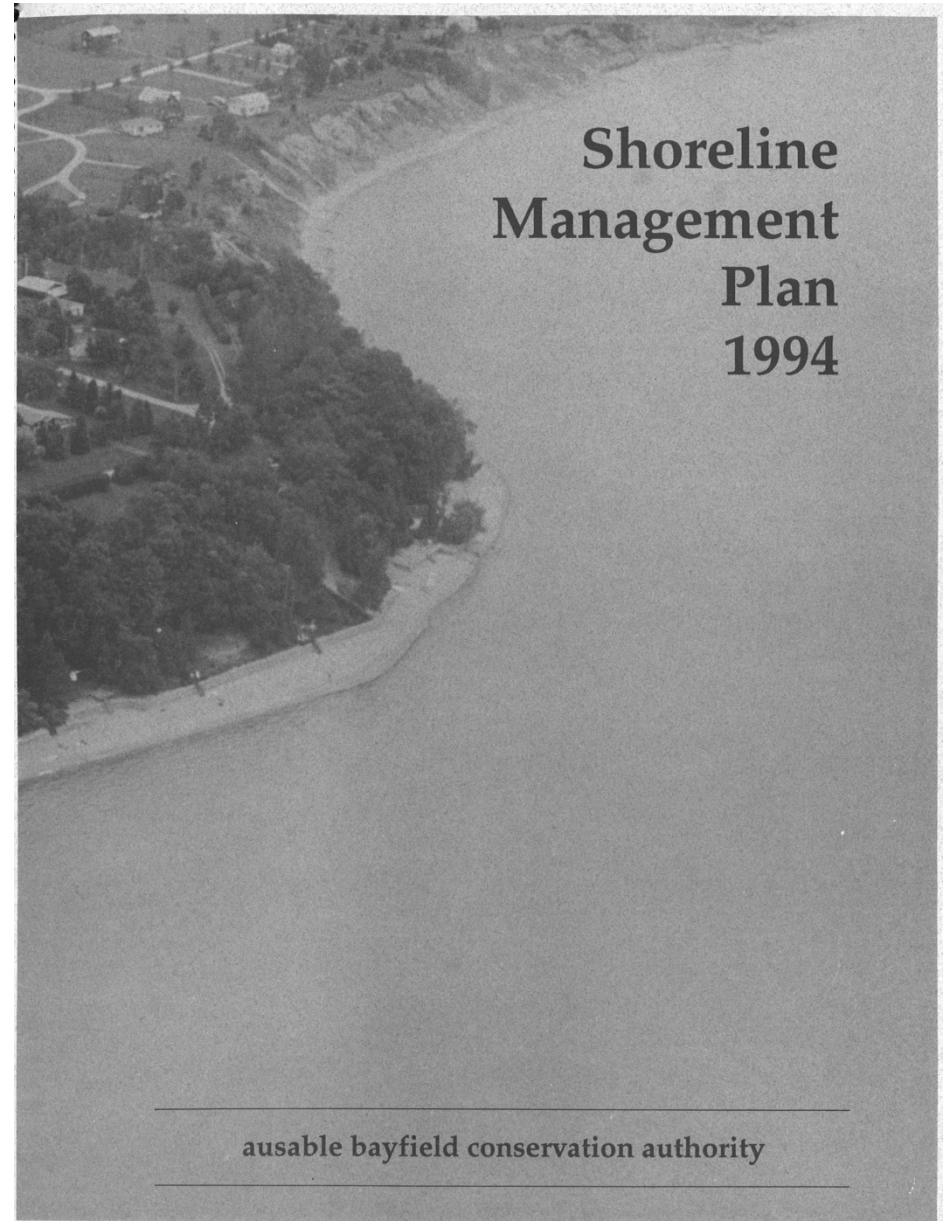
- ONTARIO MINISTRY of NATURAL RESOURCES
- WATERSHED SCIENCE CENTRE
- RELATED WATERSHED WEB SITES

- general guidance document for shoreline protection works
 - permitting
 - construction
 - monitoring
- 1994



ABCA 1st Shoreline Management Plan

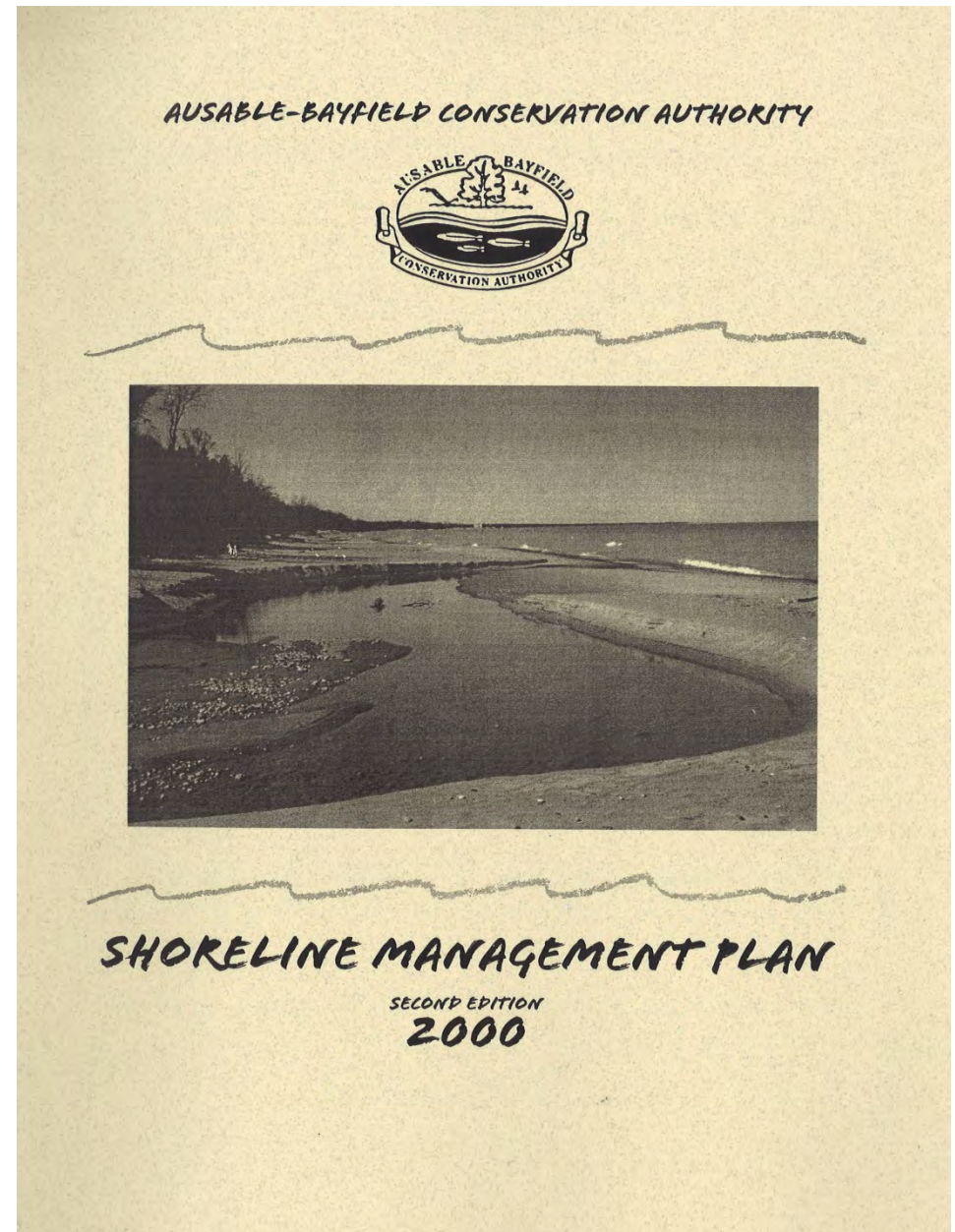
- Describes processes and shoreline reaches
- mapping
- Policy direction
- Reduce / eliminate damages to residences and development
- Establishes setbacks
- Locally implemented





Updated 2000

- Most recent edition
- Limited to changes resulting from the then new PPS (1997)
- Still in use today



Lakeshore Development Guidelines

- Provides direction with regard to development proposals within lakeshore hazard areas
- Used for planning and for regulations

LAKESHORE DEVELOPMENT GUIDELINES, CONTINUED

SECTION 3.3.7 - Lakeshore Development Guidelines Summary

SECTION 55.7 - Lakeshore Development Guidelines Summary

Development Activity	Lakeshore Area 1 ♦			Lakeshore Area 2 ♦	
Existing Developed Lots	Dune	Flood	Bluff	Dune	Bluff
Repairs/maintenance	✓	✓	✓	✓	✓
Interior alterations	✓	✓	✓	✓	✓
Minor additions *	x	x	Conditional ¹	✓ provided no encroachment into Lakeshore Area 1	✓
Major additions *	x	x	x	landward of foredune	design is movable
Unattached garages	x	x	x	landward of foredune	design is movable
Rebuilding of dwelling destroyed by forces other than flooding & erosion	✓ if same size and utilizes maximum lot depth (most landward location)			✓ dune - if design minimizes dune impact	✓ bluff - if structure is movable *
Rebuilding of dwelling destroyed by flooding and/or erosion	x	x	x	x	x
Relocation of dwelling away from shoreline	Optional, on the part of the owner; however: recommended			Owner should consider this as a future option, depending on severity of the hazard	
Minor Structures *	x	x	Conditional ²	Conditional ³	Conditional ²
Swimming pools	x	x	x	Conditional ³	✓ Provided drainage is addressed
New septic systems	x	x	x	Conditional ⁴	Conditional ⁴
Decks (existing)					
Repair and maintenance	✓	✓	✓	✓	✓
Decks (new)	x	x	No closer than 3m to top of bank and not connected to dwelling	If landward of the foredune (see Figure 17)	✓
Existing Vacant Lots (infilling)					
New dwellings	x	x	x	Conditional ⁵	Conditional ⁵
Septic systems	x	x	x	Conditional ⁴	Conditional ⁴
New Development					
Creation of New Lot(s) (i.e. severances, subdivisions)	x	x	x	x	x
Technical Severance	✓	✓	✓	✓	✓
Lot Consolidation	✓	✓	✓	✓	✓
Land use designation/zone changes	Support changes to planning documents to Hazard, Natural Environment or Open Space designations			Support changes to planning documents to a lakeshore overlay (subscript "L") designation	
Do not support proposed zoning, land use designation or official plan changes which further intensify land use, i.e. seasonal residential to multi-unit dwelling.					

LEGEND

✓ allowed
x not allowed

♦ on a site-specific basis/study, where calculated erosion rates are low (less than 0.3 m/yr); these boundaries may be adjusted

* refer to Glossary (Appendix A) for full definition

- a minor addition is equal to less than 30% of total existing foundation area
- a major addition is equal to or greater than 30% of total existing foundation area
- a minor structure is a portable building (storage shed, gazebo) with no utilities and maximum size 14 sq. m.

DOES NOT INCLUDE SHORE PROTECTION DEVICES.

- a technical severance is a boundary adjustment where no new lot is created

* movable design considerations are only necessary where long-term erosion rate calculations apply

Conditional¹ - yes, provided calculated erosion rate is less than 0.3 m/yr; slope stability is addressed

Conditional² - yes, provided structure is inland from primary dwelling if calculated erosion rates are greater than 0.3 m/yr

Conditional³ - yes, provided dune restoration is implemented and/or provided no encroachment into Lakeshore Area 1

Conditional⁴ - yes, and it is recommended to be landward of primary dwelling & conforms to setbacks as required under Building Code

Conditional⁵ - yes, provided that building is movable by design, impact to dunes is minimized, and provided that more than 50% of existing lots/parcels in the residential/cottage area are developed

NOTE: Please refer to text in the previous section (3.3.6) for a complete description. All of the above is subject to appropriate setbacks and maximum lot coverage requirements as listed in municipal zoning by-laws.

Policies and Procedures

- for implementation of our regulation
- formal direction of Board of Directors to staff
 - what can be approved
 - also under review



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Policies and Procedures Manual for the Administration of Ontario Regulation 147/06 and Municipal Plan Input and Review Manual

September 10, 2007













