# BRAS D'OR LAKES DEVELOPMENT STANDARDS Handbook

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# Prepared for:

Bras d'Or Lakes Collaborative Environmental Planning Initiative

## Prepared by:

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### ABOUT THIS HANDBOOK

EDM • Environmental Design and Management has prepared this handbook to summarize initiatives for water resource protection to be considered by the municipalities with jurisdiction over portions of the Bras d'Or Lakes Watershed. These initiatives are recommended in our report *Bras d'Or Lakes Development Standards* prepared for the Bras d'Or Lakes Collaborative Environmental Planning Initiative (CEPI). The report presents the results of our extensive study of Best Management Practices (BMPs) for water resource protection in the Bras d'Or Lakes.

The focus of our study was on approaches to protection of water resources that could be implemented at the local level through management and regulation of land development. The study concentrated on four key groups of initiatives:

- Suitability of Lands for Development (see p. 2, below)
- Watercourse Buffers (p. 3)
- Wastewater Management Districts (p. 6)
- Low Impact Development (p. 7).

The handbook summarizes recommendations related to each area. For each recommendation the handbook provides proposed municipal policy suitable for incorporation in a Municipal Planning Strategy (MPS) along with implementation approaches. MPS policy is most often implemented through a Land Use Bylaw (LUB) regulating land development and construction within a designated planning area.

Other devices and approaches are also available. Some policy initiatives can be implemented directly from policy; most notably, four additional categories discussed in our report:

- Amended and Additional Bylaws (p. 9)
- Public Education (p. 10)
- Municipal Practice (p. 11)
- Intergovernmental Cooperation. (p. 11).

Ultimately, water resource protection is in the hands of the community. The highest degree of success will be achieved when municipal employees, residents, businesses, and even visitors are aware of the importance of preserving and protecting watercourses, and fully committed to the achievement of water protection goals. The implementation of initiatives to protect water resources should therefore be as comprehensive as possible and supported by continuous efforts at public education.

With respect to the former requirement, it is important to note that only limited areas of the Bras d'Or Watershed are currently subject to a MPS. Within the watershed, all of Cape Breton Regional Municipality, Baddeck in Victoria County, Whycocomagh in Inverness County, and Sporting Mountain and St. Peter's in Richmond County are subject to municipal plans and land use bylaws. The policy and bylaw amendments recommended following have been drafted for incorporation in these existing documents, using similar language and formatting. The majority of the area within the watershed, however, is outside these established planning areas. Although all four municipal units have subdivision bylaws, which are also an important implementation tool, and these bylaws apply to the entire municipality in all cases, they cannot incorporate restrictions less stringent than the Provincial Subdivision Regulations except pursuant to MPS policy.

Ultimately, CEPI is seeking to create an Integrated Watershed Management Plan (IWMP) for the Bras d'Or. Ideally, the following recommendations will eventually form a major portion of the content of a comprehensive document. A comprehensive Watershed Management Plan should, however, go beyond just land use controls. The IWMP should cover initiatives beyond land use controls and building regulations. It should address public education, community animation, and ongoing monitoring. To these ends, it must be created in consultation with other levels of government and a full range of stakeholders.

	MUNICIPAL WATER RESOURCE PROTECTION INITI	ATIVES
<b>Objectives</b>	Suggested Policy	Implementation Approaches
Suitability of Lands for Develo	pment See: Bras d'Or L	akes Development Standards, Section 5.1.1, pp. 68-71
To identify lands that are marketable for development that also minimize government and societal costs, and impacts on valued environmental features.	Serviced Centres It shall be a policy of Council to encourage development to locate in areas within the Bras d'Or Watershed that are connected to or can feasibly be connected to existing water and sewer networks.	Adopt additional policy in MPS documents applicable to serviced centres within the Watershed, identifying these areas as preferred growth centres. In these areas, permit higher density development and a wider variety of development types to encourage the creation of complete communities, and to enhance the financial viability of development.
		For the balance of the watershed, adopt policy to minimize the possible negative impacts of development and to preserve the rural character of those areas. This policy could be implemented in the LUB through requirements for restricted land use, larger lots,

Pi	Implementation Approaches and higher yard and setback requirements. Prohibition of the construction of private roads
Pi	
Residential Land Suitability Assessment For subdivisions or development proposals of more than five lots, it shall be a policy of Council to assess the potential	except where associated with Open Space Design approaches (see below) would also assist toward this objective. Require developers through the Subdivision Bylaw to assess the probable impacts of larger proposals and identify measures to mitigate impacts.

To limit land use, and preserve natural features and vegetation in areas immediately abutting watercourses so as to maintain the natural filtering qualities of these lands, shade water edges, preserve aesthetic qualities, and protect against the effects of sea level rise, while facilitating controlled public

### **20-Metre Watercourse Buffers**

It shall be a policy of Council to require the retention, through the land use bylaw, of a minimum 20-metre buffer area along all watercourses within the Bras d'Or Watershed to protect the chemical, physical and biological functions of marine and freshwater resources. The bylaw shall generally prohibit all development within the buffer but provisions shall be made to permit existing structures; decks attached to existing structures in the buffer or to legal structures abutting the

Add the following in the General Provisions of

the applicable LUB:

Notwithstanding anything else in this Bylaw, all lots abutting a watercourse shall retain at least a 20-metre vegetated buffer next to such watercourse.

Municipalities that have adopted this type of



	MUNICIPAL WATER RESOURCE PROTECTION INITIA	
<u>Objectives</u>	Suggested Policy	Implementation Approaches
access.	buffer; boardwalks, walkways, and trails of limited width; fences, public road crossings, and driveway crossings; wastewater, storm and water infrastructure; marine dependent uses; fisheries uses; boat ramps; wharfs; conservation uses; parks on public lands; and historical sites and monuments within the buffer. In addition, no alteration of land levels or removal of vegetation in relation to development will be permitted.	comprehensive watercourse buffer in Nova Scotia have not illustrated the requirement on their zoning maps.
	Watercourse Buffers Up to 75 Metres It shall be a policy of Council to consider the retention of additional watercourse buffer areas to a maximum of 75 metres in which the same or more limited restrictions on land use may be implemented through the land use bylaw, in consideration of the perceived sensitivity of receiving waters, potential for soil erosion, and/or potential inundation from flooding or sea level rise.	The applicable LUB may be amended in several ways to accomplish this. An overlay zone is one option. A zone similar to a floodway zone might be adopted in which construction could be appropriately restricted. Pursuant to the policy outlined, this zone could be applied on the banks or shores of any watercourse up to a distance of 75 metres.  Restrictions might vary from the standards applicable within the 20-metre buffer areas. For example, it may be possible to allow the removal of vegetation if appropriate construction practices are employed, or to allow development provided sites are filled above the level of potential sea level rise and related storm surge.  As this type of restriction would be implemented as a zone overlay, as opposed to a LUBprovision, its application will have to be illustrated on the Zoning Map or Maps.

	MUNICIPAL WATER RESOURCE PROTECTION INITIA	TIVES
<b>Objectives</b>	Suggested Policy	Implementation Approaches
Objectives	High Risk Land Uses It shall be the policy of Council to include provisions in appropriate zones to ensure adequate separation from all watercourses of land uses in which there may be a reasonable expectation of the storage or handling of materials that may be detrimental to water quality if released to such watercourses such as services stations, specific industrial uses, manure storage facilities, and salt storage sheds.  Sea Level Elevation It shall be a policy of Council to restrict, through the land use bylaw, all development on the shores of the Bras d'Or Lakes within a 1.25-metre elevation above the ordinary high water mark.	Amend applicable sections of the LUB. The most likely amendments will be additional buffer distance in zones permitting land uses of concern. For example, a Highway Commercial Zone might be amended to require that services stations and automobile dealerships be located at least 75 metres from any watercourse.  Add the following in the General Provisions of the applicable LUB:  Notwithstanding anything else in this Bylaw, no building shall be constructed on the shores of the Bras d"Or Lakes within a 1.25-metre elevation above the ordinary high water mark.  This provision does not have to be illustrated on the Zoning Map.
	Dedication of Waterfront Lands It shall be the policy of Council to require the dedication of up to 10 per cent of any lands approved for subdivision within the Bras d'Or Watershed for the protection of watercourses. Where any such subdivision may abut a watercourse, Council shall assume ownership of all lands within at least 20 metres immediately abutting the watercourse. Where lands more than 20 metres from a watercourse are deemed not to be of interest to protect the watercourse or to provide access to such watercourse, it shall be the policy of Council to accept cash-in-lieu to be accumulated in a municipal fund for the strategic	Add the following in the applicable Subdivision Bylaw:  Before receiving approval of a final plan of subdivision, the subdivider of any property within the Bras d'Or Watershed having frontage on a watercourse shall provide a park dedication to the Municipality which:  (a) if in the form of land, shall include all lands within the proposed subdivision within 20

	MUNICIPAL WATER RESOURCE PROTECTION INITIA	TIVES
Objectives	Suggested Policy	Implementation Approaches
	acquisition of waterfront lands, particularly on the shores of	metres of the watercourse, provided such lands
	the Bras d'Or Lakes.	do not exceed 10 per cent of all newly created
		lots, including any proposed parkland, but
		excluding proposed public streets or highways,
		private roads, walkways and the remainder of
		land owned by the subdivider; and
		(b) if in the form of equivalent value, shall be
		equal to 10 per cent of the estimated assessed
		market value of all newly created lots,
		excluding public streets or highways, private
		roads, and walkways and the remainder of
		land owned by the subdivider.
Wastewater Management Distr	icts See: Bras d'Or La	kes Development Standards, Section 5.1.3, pp. 78-81
To establish a framework or	Wastewater Management Districts for Existing	A Wastewater Management District Bylaw is
frameworks to address pollution	Development	required for each WMD established. Creation
control challenges through the	Where conditions of sewage disposal in existing areas of	of a model WMD Bylaw would be beneficial
establishment of community-	development within the Bras d'Or Watershed may threaten	but each bylaw must recognize the boundaries
based approaches to managing	the welfare of residents and/or the quality of water resources	of the particular district, the waste disposal
onsite systems, or small-scale	within the area, it shall be a policy of Council to consider the	technology to be employed, the related
collection and treatment systems.	establishment of a Wastewater Management District to	management approach, and the specific regime
	manage and monitor sewage collection and treatment facilities	for allocating WMD costs to users.
	and, where necessary, establish charges for such management	
	and monitoring.	
	Wastewater Management Districts for Proposed	See Wastewater Management Districts for
	Development	Existing Development preceding
	Where development of more than 20 residential units is	
	contemplated through a single project or where a proposal	
	involving 5 or more units will result in a density of	
	development in excess of one unit per acre, it shall be a policy	
	of Council to consider the establishment of a Wastewater	



Objectives	MUNICIPAL WATER RESOURCE PROTECTION INITIA Suggested Policy	Implementation Approaches
	Management District to manage and monitor sewage	
	collection and treatment facilities and, where necessary,	
	establish charges for such management and monitoring.	
Low Impact Design	<b>See</b> : Bras d'Or La	akes Development Standards, Section 5.1.4, pp. 81-8
To establish policy and adjust	Open Space Development	The municipality should decide which of site
regulations as necessary to permit	It shall be the policy of Council to permit, by way of site plan	plan approval or the development agreement
and encourage approaches to land	approval and/or development agreement, the clustering of	process suits its purposes. The decision should
levelopment, site planning, and	residential development within a property of five or more	largely be based on the degree of control
uilding design that will manage	acres provided that through such clustering the number of	Council wishes to exercise, recognizing that
tormwater runoff directed to	dwelling units shall not exceed the number of units that	additional control though a Development
vatercourses and/or to enhance	would otherwise be allowed under the applicable zone using	Agreement process, may discourage
he quality of such runoff.	conventional development. In considering approval of such	employment of the open space approach.
	development agreements, Council shall consider the	Council may use both regulatory techniques,
	following:	reserving development agreements for larger
		developments or for developments requiring
	(a) the lot frontages and yards required to minimize the extent	adaptations beyond set guidelines.
	of road development, to cluster building sites on the parcel	
	and provide for appropriate fire safety separations;	Site plan approval or development agreement
	(b) that the building sites for residential units, including all	procedures must be provided in zones in
	structures, driveways and private lawns, do not exceed	which Open Space Development will be
	approximately 50% of the lot area;	considered. Normally, these will be rural
	(c) that approximately 50% of the land to be subdived is	residential zones in which standard
	retained as a non-disturbance area (no alteration of grades,	development would require onsite services or
	except for the placement of a well or onsite sewage	larger lots. Specifications for Open Space
	disposal system in the non-disturbance area shall be	Development in these zones should address le
	permitted and provision shall be made for the selective	size, frontage, and yard requirements, as well
	cutting of vegetation to maintain the health of the forest);	as the percentage of land required to be set
	(d) where the development is to be serviced by groundwater,	aside for sewage disposal and treatment, water
	that there is an adequate supply of groundwater to service	supply, and land conservation. They may
	the development and that the proposed development will	provide latitude for consideration of other LII
	not adversely affect groundwater supply in adjacent	measures such as permeable paving surfaces,



	MUNICIPAL WATER RESOURCE PROTECTION INITIA	TIVES
Objectives	Suggested Policy	Implementation Approaches
	developments, as determined through a hydrogeological assessment conducted by a qualified professional;  (e) whether soil conditions and other relevant criteria to support onsite sewage disposal systems can be met or that	cisterns, or green roofs, which could justify reduction of the area of conserved land to the extent that they might reduce stormwater flow.
	alternative systems for sewage collection and treatment acceptable to the municipality can be provided;  (f) that the development is designed to retain the non-disturbance areas and to maintain connectivity with any open space on adjacent parcels;  (g) connectivity of open space is given priority over road connections if the development can be sited on the parcel without jeopardizing safety standards;  (h) existing parks, trails, natural networks, and natural corridors are delineated on site and preserved;  (i) that the proposed roads and building sites do not significantly impact on any primary conservation area,	Consideration of Open Space Development will probably raise a wider range of concerns for the public than the potential impact of such development on stormwater management, watercourses, and other aspects of the natural environment. Provisions (d) through (n) of the suggested policy address considerations of this type and would be taken into account by the Development Officer in the case of site plan approval, and by Council in the case of an appeal of a site plan approval decision or consideration of a Development Agreement
	including riparian buffers, wetlands, 1 in 100 year floodplains, rock outcroppings, slopes in excess of 30%, agricultural soils and archaeological sites;  (j) that the proposed road and building sites do not encroach on or are designed to retain features such as any significant habitat, scenic vistas, historic buildings, pastoral	application. These specifications would also be a primary guide for the Nova Scotia Utilities and Review Board when hearing an appeal of a Development Agreement decision by Council.  Often, MPSs include "Implementation Policies"
	landscapes, military installations, mature forest, stone walls, and other design features that capture elements of rural character;  (k) that views of the open space elements are maximized throughout the development;  (l) that opportunities are taken to orient development to maximize the capture of solar energy;  (m) that the proposed development will not significantly impact any natural resource use and that there is sufficient	that provide further context for the consideration of LUB amendments and Development Agreements. These policies typically invoke consideration by Council of such matters as the adequacy of public infrastructure and the financial capacity of the municipality, and land use and environmental impacts (e.g., noise, traffic, views). These provisions will also bear on consideration of



	MUNICIPAL WATER RESOURCE PROTECTION INITIA	TIVES
Objectives	Suggested Policy	Implementation Approaches
	buffering between any existing resource use and the	Open Space Subdivisions through
	proposed development to mitigate future community	Development Agreement. Where the
	concerns;	combination of existing provisions is
	(n) that private roads , and water, sewer and stormwater	considered insufficient further amendment
	infrastructure required to service the development can be	may be required.
	appropriately managed by future residents of the	
	development;	Additional bylaws or bylaw amendments may
	(o) that consideration be given to any other matter relating to	be required. For example, amendments may be
	the impact of the development on surrounding uses or on	required to the Subdivision Bylaw to permit
	the general community.	alternative street standards, or a development
		requiring a shared sewage treatment system
		might require the creation of a WMD with an
		associated WMD Bylaw.
	Stormwater Control Measures	Amend the Subdivision Bylaw and Building
	It shall be the policy of Council to encourage consideration of	Bylaws as necessary to permit the use of
	alternative methods to manage stormwater flows such as:	alternative technologies.
	(a) the use vegetated swales, landscaping, and properly	
	designed ditch and culvert systems;	
	(b) pervious surfacing of driveways, walkways; and	
	(c) employment of cisterns, rain barrels, and green roof	
	technology.	
Amended and Additional Bylan		kes Development Standards, Section 5.2.1, pp. 88-91
To explore additional regulatory	Amended and Additional Bylaws for Watercourse Protection	Consider adoption of one or more of the
measures that may have benefits	It shall be the policy of Council to consider the amendment or	following:
in watercourse protection.	adoption of bylaws to improve the handling and disposal of	
	animal waste; manage and control pesticide use; control the	Pesticide Control
	grading and removal of topsoil; or other measures that may be	· Animal Control
	beneficial to the protection of watercourses and preservation	· Lot grading
	of water quality.	



Public Education  See: Bras d'Or Lakes Development Standards, Section 5.2.2, pp. 91-92  To raise public awareness of water quality issues and the means to preserve and protect water quality.  Environmental Education It shall be the policy of Council to use all economical means at its disposal to raise public awareness of water quality. To these ends, Council shall provide information and technical materials to the public of water resource issues and/or involve the public in activities intended to enhance water resources or the related environment.  Any other potential bylaw, regulation, or guideline that may further the objective of protecting and enhancing water resources.  Promote water resource awareness through all available, cost-effective means. Provide continuing education courses through recreation departments and organize events to involve the community in clean-up and other improvements.  Add information on Water Resource protection to municipal Web sites. All of the municipal units on Cape Breton provide general information on a variety of matters. Information on water resource protection will simply augment this useful material. It should be prominently accessible as, for example, a component of the CBRM site.		MUNICIPAL WATER RESOURCE PROTECTION INITIA	
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			component of the Community Information
			pages of the CBRM site.
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Municipal Web sites should link to			Municipal Web sites should link to
appropriate pages in other Web sites offering			appropriate pages in other Web sites offering
pertinent information such as Environment			
Canada, Nova Scotia Environment and Labour			Canada, Nova Scotia Environment and Labour,
the Un'amaki Institute, and CEPI. These			
agencies are also potential sources of printed			agencies are also potential sources of printed
information that may be distributed to the			information that may be distributed to the
interested public.			interested public.
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	MUNICIPAL WATER RESOURCE PROTECTION INITIATIVES			
	Objectives	Suggested Policy		Implementation Approaches
M	unicipal Practice		<b>See</b> : Bras d'C	Or Lakes Development Standards, Section 5.2.3, p. 92
To	ensure municipal operations	Municipal Guidelines		Prepare a municipal operations manual or
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To ensure municipal operations are conducted with conscientious concern for the environment.

It shall be the policy of Council to encourage municipal staff to review all practices that may have a detrimental effect on water resources or may be improved in a manner that may enhance water resources or provide an example to the public of means to enhance water resources. Where appropriate, Council shall encourage staff to develop or revise operational guidelines to achieve these ends, with particular attention to road clearing and cleaning, management of municipal buildings and grounds, and handling of potentially hazardous materials by municipal staff.

Prepare a municipal operations manual or amend existing operational guidelines in consideration of water resource protection priorities covering typical municipal functions such as buildings, parks, and grounds maintenance; road construction and maintenance, including salt application and storage; and fleet operation and maintenance.

### **Coordinated Action**

To maximize cooperation among local governments, interested stakeholders and senior governments toward the protection of water resources.

### **Intermunicipal Cooperation**

It shall be the policy of Council to continue to cooperate with other municipal units in Cape Breton on the protection and preservation of water resources within the Bras d'Or Watershed.

### **Intergovernmental Cooperation**

It shall be the policy of Council to coordinate efforts to protect and preserve water resources within the Bras d'Or Watershed with senior governments. To this end, Council shall encourage municipal staff to access technical support and funding from senior governments to support watershed planning, assess alternative approaches to water and wastewater management, and upgrade infrastructure relevant to the preservation and enhancement of water quality.

See: Bras d'Or Lakes Development Standards, Section 5.2.4, pp. 93-92

All municipal units in the Bras d'Or Watershed should continue to cooperate with CEPI and other agencies committed to watershed protection and enhancement leading, ultimately, to the creation and mutual endorsement of an Intermunicipal Watershed Management Plan for the Bras d'Or.

Local governments and associations should continue to work with Provincial and Federal authorities to protect water resources. Senior governments are a key source of funding support. They also provide information that local authorities can assist to disseminate and guidelines to which local authorities should attempt to conform. Where necessary local governments should encourage or even

MUNICIPAL WATER RESOURCE PROTECTION INITIATIVES		
Objectives	Suggested Policy	Implementation Approaches
		pressure senior governments to fulfill their
		responsibilities for water resource protection in
		such areas as monitoring water quality and
		controlling discharge from marine vessels.