

## Summary of Policy Recommendation Uptake from Russell Lake Watershed Management Plan by Dartmouth MPS

Policy #	Policy	Policy Objective	Addressed by Dartmouth MPS or other HRM plans or policies	Notes
Planning Policies				
P1	Designate buffer areas along the shoreline as conservation area or parkland	<ul style="list-style-type: none"> <li>• Provide recreational amenity</li> <li>• Contaminant control (I)</li> </ul>	<p>SPS: Parkland &amp; Open Space paragraph identifies HRM's intent to acquire shoreline buffer areas. The intended use of these areas is generally recreational in nature but not specified.</p> <p>ML22 specifies acquisition of shoreline parcels for public trails adjacent to lakes / watercourses; limits private shoreline ownership to 50%</p> <p>RMPS adopted four policies (E-10 through E-13) to establish &amp; protect riparian buffers. Policies E-10, E-11 &amp; E-12 apply to Russell Lake.</p>	<p>ML-24: all shorelines protected by 100' buffer zones; zone width may be 75' if study etc. warrants. No vegetation or soil may be removed unless done under auspices of approved vegetation management plan</p> <ul style="list-style-type: none"> <li>- Wetlands protected by buffer of 25' for areas of &lt;0.5 acres and 50' for areas ≥ 0.5 acres</li> </ul> <p>RMPS policies In essence,</p> <ul style="list-style-type: none"> <li>- 20 metre buffer</li> <li>- Certain uses permitted within this area</li> <li>- Through DAs, HRM shall consider RBs as public open space as well as alternative uses</li> <li>- RB By-law requirements relaxed for lots in existence on effective date of this plan and those shown on subdivision applications</li> </ul>
P2	Protect wetlands as conservation area	<ul style="list-style-type: none"> <li>• Stormwater management (F)</li> <li>• Contaminant control (I)</li> </ul>	<ul style="list-style-type: none"> <li>- Not designated as conservation area</li> <li>- ML24 (b) excludes wetlands from development</li> <li>- ML24(d) specifies minimum buffer widths for wetlands of different size classes (see above)</li> </ul>	
P3	Designate slopes over 25% as areas where no construction can take place	<ul style="list-style-type: none"> <li>• Erosion prevention (A)</li> </ul>	<ul style="list-style-type: none"> <li>- ML18(I) prohibits development on steep slopes adjacent to Russell Lake on Parcels 10 and 11</li> <li>- ML24(a) cautions that lands with slopes of 15% or greater should not be developed "<b><i>unless additional environmental control measures are implemented to minimize the amount of erosion generated from the site;</i></b>"</li> </ul>	

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P4	Designate slopes over 15% as sensitive areas requiring special construction methods	<ul style="list-style-type: none"> <li>Erosion prevention (A)</li> </ul>	ML24(a) cautions that lands with slopes of 15% or greater should not be developed <i>“unless additional environmental control measures are implemented to minimize the amount of erosion generated from the site;”</i> No specification of acceptable measures, or acceptability provisions, was made in the MPS
Design Policies			
P5	Require variable width of buffer strip to respond to slope and soil conditions, but no less than 15 metres	<ul style="list-style-type: none"> <li>Minimize erosion and allow for trapping of contaminants (A)</li> </ul>	<ul style="list-style-type: none"> <li>Generally, buffer width not variable with slope and soil conditions;</li> <li>Shoreline buffer may be REDUCED from 100 to 75 feet given appropriate conditions</li> </ul>
P6	Require development proposal to minimize width and length of road network and maximize clustering of lots	<ul style="list-style-type: none"> <li>Minimize runoff (F)</li> <li>Conserve natural vegetation (I)</li> </ul>	No such language was used in the MPS. ML-5 specified a road classification. Accurate determination of adoption possible only by scrutiny of person with detailed local historical knowledge.
P7	Design roads, driveways & sidewalks with shallow slopes	<ul style="list-style-type: none"> <li>Minimize requirement for deicing salt (A)</li> </ul>	No adoption of this clause
P8	1) Require a stormwater analysis comparing pre- and post-development flows. 2) Require the developer to demonstrate how increase in the volume of water discharged to the lake via the storm drainage system during the 1-year storm event will be kept to an absolute minimum and preferably prevented through the use of site design and stormwater Best Management Practices. <b>See Note #1 below.</b>	<ul style="list-style-type: none"> <li>Provide suitable runoff management (F)</li> <li>Provide adequately for interception of contaminants (I)</li> </ul>	<ul style="list-style-type: none"> <li>ML-23 states Council’s intention to reproduce the pre-development flows</li> <li>Policies ML-27 to ML-29 require the developer to meet recommendations provided in the Morris Lake Stormwater Management Plan. This plan does not require pre- and post-development flow analysis</li> <li>No adoption of point 2</li> </ul>
P9	1) Require the developer to provide information on the design and management of contaminant control devices to be used during construction and 2) for the detention and treatment of	<ul style="list-style-type: none"> <li>Short and long term management of contamination (F) (I)</li> </ul>	<ul style="list-style-type: none"> <li>ML-18(d) identifies the function of Parcel 4 as conveying stormwater flows originating from the west side of the Circumferential Highway (111). This area was to be expanded to include additional lands to control and treat post-development stormwater flows; it was to be transferred to HRM upon completion &amp; acceptance of approved stormwater management systems</li> <li>ML-24 specifies a number of contaminant controls during and post development,</li> </ul>

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	stormwater on the fully developed site. <b>See Note #2 below.</b>		including: mandatory buffers, buffer widths, vegetation retention, non-development of lands >15% slope, and maximum percentage of impermeable surfaces for the developed area - ML-25 specifies techniques to minimize erosion and maximize sediment control, such as restriction of ground disturbance, specific vegetation controls (marking/retention etc.), construction phasing and the timing and implementation of erosion control devices; - MLs 27-29 specifically address stormwater management provisions	
P10	Minimize disturbance of the shoreline and its vegetation	• Contaminant Control (I)	ML-24 specifies buffer zones, widths and vegetation detention	
P11	Minimize the disturbance of land-based natural vegetation	• Erosion prevention (A) • Contaminant control (I)	ML-24 specifies buffer zones, widths and vegetation detention	
P12	Conserve natural drainage channels especially if vegetated. Conserve wetland for stormwater detention and contaminant control	• Contaminant control (I)	- ML-23 (e) specifies Council’s intention to preserve and utilize the natural drainage system - ML-24 (B) excludes wetlands from development - ML-29 commits HRM to conduct stormwater wetland projects in Ellenvale Run and other locations (where deemed appropriate), and to negotiate the establishment of similar projects with other land owners through the CDD process  C-28 (Commercial Policy) holds developers responsible for the design & construction of “adequate detention pond/wetland stormwater management system and a monitoring program for Russell Lake to determine the effectiveness of the system”	
P13	Use natural landscaping wherever possible and minimize the use of lawns on public and private common use land	• Reduce the requirement for lawn care products (A)	This clause is not addressed. There are references to “landscaping measures”	
Management Policies				
P14	Enforce the D200 Dog Bylaw	• Minimize pet excrement (A)	ML-26 identifies Council’s intention to create a Public Awareness and Education Program; clause (c) specifies the application of an Animal Defecation By-Law throughout the entire area that should be actively enforced	HRM By-Law A-300 (Respecting Animals and Responsible Pet Ownership), section 7 (1)(c), makes it an offense for a dog to defecate on any public or private property, other than that of its owner, without the owner immediately removing the defecation.

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P15	Re-examine policies and practices governing the distribution of deicing salt	<ul style="list-style-type: none"> <li>• Minimize salt availability (A)</li> </ul>	Not addressed	
P16	Promote and evaluate participation in the municipal leaf collection program. Adjust program if necessary	<ul style="list-style-type: none"> <li>• Reduce the availability of garden waste (A)</li> </ul>	Not addressed	
P17	Provide no developed access (ramps, wharves) for power boats on the lake	<ul style="list-style-type: none"> <li>• Minimize contamination (A)</li> <li>• Minimize noise</li> </ul>	Not addressed	
<p><b>Note #1:</b> The overall intention of this policy (P8) is to minimize (and preferably prevent) any increase in runoff from the development in order to minimize the opportunity for contaminant export into the lake. This should be accomplished through site design, minimal disturbance of vegetation, and by diffusing stormwater from hard surfaces wherever possible. Roof drainage should not be connected to the storm drainage system. The integrity of the buffer strip should be protected in order to maximize its stormwater detention and diffusion capability, consequently there should be no direct discharge of stormwater across it.</p> <p><b>Note #2:</b> The stormwater which enters a piped stormwater control system should be directed to detention and control devices for clean up before entering the lake. These can include the pond at the north end of Russell Lake and the natural wetland area at the south end. Use of the latter is encouraged to improve the flushing of the lake and prevent stagnation.</p>				

The meaning of letters A, F & I are unknown.

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The following action items, identified in the Russell Lake Watershed Management Plan, are beyond the scope of the MPS, which is oriented exclusively towards policy items.

Action #	Policy	Objective
Habitat Protection		
A1	Carry out Russell Lake habitat survey	Determine existing resources and detailed habitat protection objectives
A2	Prepare management plan for City-owned wetlands and buffer strip areas	Protect sensitive habitat. Incorporate educational and low intensity recreational opportunities as appropriate
A3	Hold Russell Lake habitat reclamation seminar	Draw on local knowledge and expertise to develop ideas for habitat reclamation
A4	Prepare habitat reclamation plan for key areas around the lake	Identify habitat reclamation opportunities for both City-owned and private properties. Develop partnerships for implementation.
Stewardship		
A5	Provide information on the Dog By-Law	• Encourage responsibility for contaminants caused by pets (A)
A6	Provide information on the proper use of garden care products, deicing salt, disposal of automotive oil	• Encourage responsibility for the effective use and proper disposal of products in home use (A)
A7	Encourage commercial landscape management practices which are in keeping with lake water management objectives	• Reduce the availability of contaminants (A) • Ensure the integrity of stormwater “clean up” installations (I)
A8	Encourage backyard composting for grass and leaves, or participation in municipal leaf collection program	• Reduce availability of garden waste (A)
A9	Require developers to provide lake stewardship information to new home buyers	• Improve level of public awareness
A10	Develop Russell Lake Stewardship project	• Promote public involvement in stewardship activities and responsibilities. Develop model stewardship program which can be applied elsewhere
Monitoring		
A11	Develop water quality monitoring program and schedule in cooperation with developers through CDD process	• Establish baseline • Determine whether erosion and sedimentation control measures are working • Determine whether trophic status is deteriorating • Monitor other parameters as appropriate
A12	Build simple evaluation and feedback procedures into Russell Lake stewardship program	• Determine the outreach and, if possible, effectiveness of public information activities
A13	Carry out follow-up habitat survey at suitable interval	• Determine to what extent habitat has been lost, maintained or enhanced