

### Alton Mill Pond Rehabilitation – Evaluation of Alternatives

Alternatives	Evaluation Criteria																Notes	
	1. consistent with local, regional and Provincial policies	2. allows fish passage	3. stabilize built structures	4. improve water quality	5. improve ecosystem health	6. improve wildlife habitat	7. improve stream fish habitat	8. generate hydro-electricity	9. recreational opportunities	10. public access/use	11. educational opportunities	12. operating costs	13. commercial opportunities	14. community participation & stewardship	15. degree of difficulty in obtaining permits and approvals	16. respect cultural heritage	16. aesthetically pleasing	
1) Repair Dam and Retain On-line Pond with managed succession and fish passage	y/n	y/n	y/n	y/n	y/n	y/n	L/M/H	L/M/H	y/n	L/M/H	L/M/H	y/n	L/M/H	y/n	L/M/H	L/M/H	based on high cost and approval difficulty with no public financial support and low scores on electrical, aesthetics, cultural heritage and commercial opportunities.	
2) Reconstruct Dam and Enlarge On-line Pond	yes	no	yes	no	no	no	high	yes	possible	low	low	no	low	low	no	low	high cost, limited public benefit	
3) Repair Dam and Retain On-line Pond with fish passage	yes	yes	yes	no	no	yes	no	low	no	possible	medium	low	no	low	yes	low	added fish passage to #1 & combined them	
4) Reconstruct Dam and Enlarge On-line Pond with fish passage	yes	yes	yes	no	no	no	high	yes	possible	medium	medium	yes	low	high	yes	high		
5) Repair Dam and Dredge On-line Pond with bottom draw conversion	yes	no	yes	yes	no	no	no	few	no	possible	low	low	yes	low	medium	yes	high	only feasible if pond dredged, too high a cost for limited benefit
6) Reconstruct Dam and Enlarge On-line Pond with bottom draw conversion	yes	no	yes	yes	no	no	yes	high	yes	yes	medium	medium	yes	low	high	yes	high	high cost, limited public benefit
7) Partial Decommissioning /Partial Dam Restoration and creation of Offline Pond with fish passage	yes	yes	yes	yes	yes	yes	low	yes	yes	high	medium	yes	high	high	yes	high		
8) Partial Decommissioning /Partial Dam Restoration and creation of Offline Pond without fish passage	yes	no	yes	yes	yes	yes	low	yes	yes	high	medium	yes	high	high	yes	high		
9) Full dam and pond removal	yes	yes	yes	yes	yes	yes	no	yes	no	medium	low	no	medium	high	no	low	based on high cost and approval difficulty with no public financial support and low scores on electrical, aesthetics, cultural heritage and commercial opportunities.	
10) Do nothing to dam and pond but restore Stream Habitat up and/or downstream	yes	no	no	yes	no	yes	yes	low	yes	no	low	low	no	high	low	no	low	does not address project purpose nor sub-watershed study recommendations
11) Do nothing	yes	no	no	no	no	no	no	no	no	low	low	no	low	low	yes	low		

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