

**9.2-1 Net Creek Dam  
(Ministry of Natural Resources)**

Issue Objective	Selected Option				Rationale for Selection
	Target/Existing Voluntary Constraint	Strategy	Benefits	Conflict or Concern	
<p><b>Fisheries:</b> -operate the dam to maintain or improve the fish habitat during its natural life cycle. Walleye spawning. (1.1.1)</p>	<p>-draw down initiated last week of Feb. -3 logs out by 2nd week in March -levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation</p>	<p>-maintain status quo operations to ensure continued protection for walleye and pike spawning habitat/ time period. Draw down initiated last week of February -3 logs out by 2nd week in March</p>	<p>-maintained spawning habitat /conditions for walleye fisheries for upstream and downstream waterbodies</p>	<p>-minimal freshet / low water natural events might impact ability to provide adequate water for upstream and downstream simultaneously</p>	<p>Option 1 maintains appropriate walleye habitat, no Option 2</p>
<p>-operate the dam to maintain or improve the fish habitat during its natural life cycle. Trout spawning. (1.1.1, 1.1.2)</p>	<p>-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown</p>	<p>-initiate the winter drawdown on September 15 by 30 cm to encourage the trout to spawn deeper (Oct) to protect incubation / fry movement (Apr) from the final drawdown. -levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye and pike spawning upstream and down stream for the 20 day incubation period post spawn</p>	<p>-fisheries - lake trout -flood mitigation -power production -public safety</p>	<p>-navigation -recreation</p>	<p>Option 2 revised drawdown potential benefit for trout spawning by encouraging deeper spawning</p>
<p>-operate the dam to maintain or improve the fish habitat during its natural life cycle. Pike spawning. (1.1.1)</p>	<p>-none</p>				
<p><b>Navigation:</b> -No issue identified to date</p>	<p>-none</p>				
<p><b>Recreation:</b> -No issue identified to date</p>	<p>-none</p>				

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<b><u>Flooding:</u></b> -operate the dam to minimize the risks of damage due to flooding for low lying areas - i.e. Guppyville (1.6.1,1.6.2)	-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown	-the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown	-fisheries -flood mitigation (docks)	-power production	Option 2 selected: - Improves flood mitigation - Improves trout spawning habitat
<b><u>First Nations:</u></b> -No issue identified to date	- none				
<b><u>Cultural Heritage:</u></b> -No issues identified to date	- none				
<b><u>Erosion:</u></b> -No issue identified to date	-none				
<b><u>Wildlife:</u></b> -operate the dam to maintain or improve Loon habitat (1.2.1) -maintain or improve habitat for beavers (1.2.2)	-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown	-the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown -levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation period post spawn -establish a communication protocol between the Temagami Area Fisheries Involvement Program and the MNR from April 25th to the end of incubation	-fisheries - lake trout -flood mitigation -power production	-navigation	Option 2 selected: - Improves beaver habitat
<b><u>Economics:</u></b> - No issue identified to date	- none				

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<p><b>Public Safety:</b></p> <p>-operate the dam to maximize public safety - late winter draw down has impact on ice conditions near inlet and outlet of dam site - potential snowmobile hazard</p>	<p>-begin the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown</p> <p>-levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation period post spawn</p> <p>-establish a communication protocol between the Temagami Area Fisheries Involvement Program and the MNR from April 25th to the end of incubation</p>	<p>-fisheries - lake trout</p> <p>-flood mitigation</p> <p>-power production</p>	<p>-navigation</p>	<p>-power production</p>	<p>option 2 selected:</p> <ul style="list-style-type: none"> <li>- Improves flood mitigation</li> <li>- Improves trout spawning habitat</li> </ul>
<p><b>Power Generation:</b></p> <p>-operate the dam to maintain or improve power production</p>	<p>- draw down initiated last week of Feb.</p> <p>- 3 logs out by 2nd week in March</p> <p>- levels are monitored to mitigate flooding potential (freshet)</p> <p>- normal operating range 295.30 - 296.30 m</p> <p>- absolute range 294.92 - 297.05 m</p> <p>- summer band 296.16 - 296.30 m summer period</p>	<p>- maintain level of 296.16 m until the walleye incubation is complete</p>	<p>- some hydro production benefits from optimum timing use of stored water during low flow periods.</p>	<p>- potential public safety concern for impact on ice conditions</p>	<p>Option 1 maintains power generation downstream, no option 2</p>

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<p><b>Natural Flow Regime*:</b>                      -operate the dam to reflect a natural flow regime</p>	<p>-draw down initiated last week of February                      -3 logs out by 2nd week in March                      -levels are monitored to mitigate flooding potential (freshet)                      -normal operating range 295.30 - 296.30 m                      -absolute range 294.92 - 297.05 m                      -summer band 296.16 - 296.30 m summer period</p>	<p>-maintain level of 296.16 m until the walleye incubation is complete</p>	<p>-some power production benefits from optimum timing use of stored water during low flow periods.</p>	<p>- potential public safety concern for impact on ice conditions</p>	<p>Option 1 selected due to balance objectives (no data for reservoirs)</p>