

Background & Preliminary Options

Falcon Lake Operating Levels	
High Water Warning Level	325.07 m (1066.50 ft.)
Maximum Summer Operation	324.99 m (1066.25 ft.)
Minimum Summer Operation	324.76 m (1065.50 ft.)
Winter Level	324.61 m (1065.00 ft.)

- With the existing structures during the 1:20 year event, the peak lake level is 325.39 m (1067.55 ft.) and the High Water Warning Level is exceeded for up to 59 days.
- Manitoba Infrastructure has developed 3 preliminary options as follows:
 - **Option #1 – Replace Timber Structure with New Culverts**
 - Replace Structure No. 2 with an enlarged 3-barrel concrete box culvert.
 - Includes new upstream operating system (low profile gates) to control flows.
 - No changes to Structure No. 1.
 - **Option #2 – Replace Timber Structure with New Culverts and Temporary Pumping Capabilities for Significant High Water Events**
 - Replace Structure No. 2 with an enlarged 3-barrel concrete box culvert.
 - Includes new upstream operating system (low profile gates) to control flows.
 - Two culverts include a pump well to allow temporary pumping capacity up to 100 cfs. Pumps would need to be mobilized during a significant high water event.
 - Provide screened pump intakes.
 - Downstream stoplogs included to prevent back flow into the lake.
 - Add downstream stoplogs to Structure No. 1.
 - **Option #3 – Replace Timber Structure with Permanent Pump Station**
 - Decommission the existing Structure No. 2.
 - Construct new pump station with 150 cfs pumping capacity permanently installed.
 - Provide screened pump intakes.
 - Add downstream stoplogs to Structure No. 1.
 - Raise the dam and existing road approximately 0.7 m and convert to a dike over 750 m due to higher downstream levels.