

JACKFISH LAKE MANAGEMENT ASSOCIATION (JLMA)

Motion to Parkland County, AB for Authorization to Submit an Application for a
Temporary Diversion License (TDL) for Jackfish Lake, AB



MOTION

- ▶ We, the Jackfish Lake Management Association (JLMA), are seeking a motion from Parkland County, AB for authorization to submit an application for a temporary diversion license (TDL) to the Alberta Energy Regulator (AER) to enable the JLMA to divert water from the North Saskatchewan River to Jackfish Lake to revitalize and restore the water conditions as it was years ago.

CONCERNS & EFFECTS

- ▶ As you may be aware, Jackfish Lake has faced a number of issues due to low water volumes, including blue-green algae and a recent winter kill in the winter of 2015/2016 that killed numerous aquatic life as you see below. As you will see from the following historical data charts illustrating the water loss in Jackfish Lake, the lake has lost over 2 metres of water in the last 20 - 30 years due to a lack of precipitation and increased annual temperatures and therefore creating these severe issues.



HISTORICAL DATA CHARTS

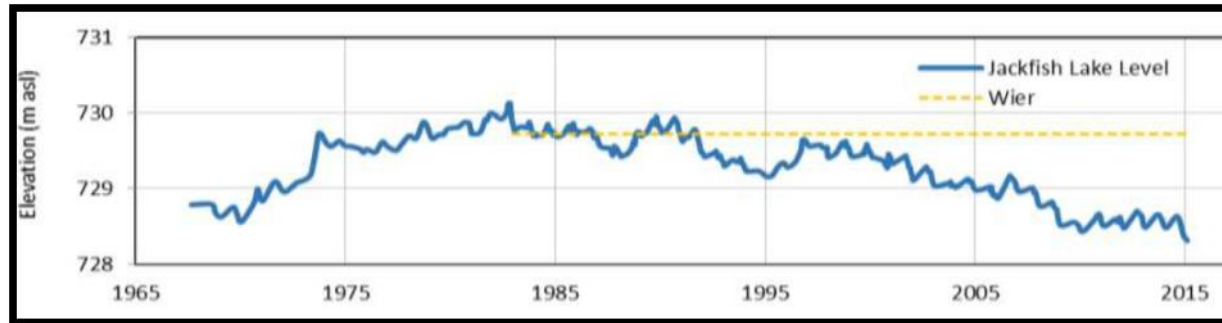


Figure 47. Water levels from 1968-2013 for Jackfish Lake measured in meters above sea level (masl). The gold dotted line indicates the weir elevation (data from Alberta Environment and Parks, 2015b).

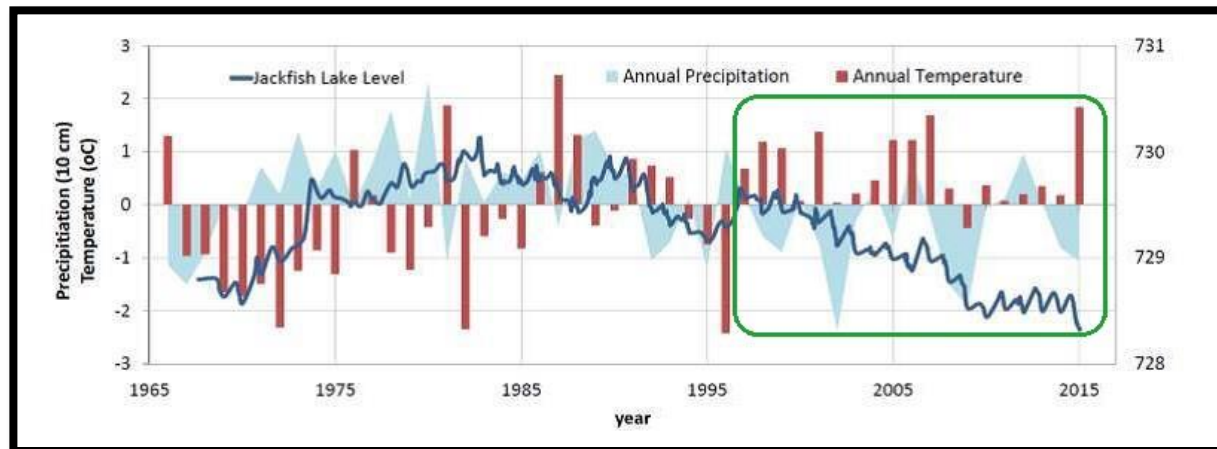


Figure 48. Jackfish Lake water levels compared to annual precipitation and temperature at Stony Plain (data from Alberta Environment and Parks, 2015b and Environment Canada, 2015)

SOLUTION

- ▶ We, the Jackfish Lake Management Association, along with biologist Ray Makowecki, M.Sc., M. Sc., B. Ed., P. Biol., QAES, have started a plan to divert water from the North Saskatchewan River to Jackfish Lake, AB, which our biologist is optimistic that it will help manage the problem of the blue-green algae and reduce future winter kills that will negatively effect the aquatic life and the ecosystems of Jackfish Lake. Attached below is a map illustrating a proposed access point to draw the water from the North Saskatchewan River and a proposed access point that the water will enter Jackfish Lake.



MOTION TO AUTHORIZE TDL

- ▶ We, the Jackfish Lake Management Association (JLMA), are wanting to help stabilize the Jackfish Lake water conditions and furthermore, revitalize and restore the water conditions as it was years ago. We are seeking a motion from Parkland County, AB for authorization to submit an application for a temporary diversion license (TDL) to the Alberta Energy Regulator (AER) to enable the Jackfish Lake Management Association to divert water from the North Saskatchewan River to Jackfish Lake. Do we have your motion to move forward with our plan to submit an application to the AER in order to create a sustainable environment for the Jackfish Lake community?

