

## Summary Information

<b>Version Date:</b> July 2018	<b>Prepared by:</b> Nathan Medinski	<b>Reviewed by:</b> Marcel Macullo	<b>Approved by:</b> Curtis Brock
<b>Waterbody ID:</b> 5134	<b>Surface Area:</b> 221 Ha	<b>Hydrologic Unit Code Name (HUC_8):</b> Dapp Creek	<b>Hydrologic Unit Code (HUC_8):</b> 17030302
<b>Sport Fish Species:</b> Northern Pike, Yellow Perch			
<b>Indigenous Fishery:</b> No			
<b>Environment and Parks Region:</b> Upper Athabasca Region (UAR)	<b>Fisheries Management Zone:</b> Northern Boreal (NB2)	<b>Fisheries Management Office:</b> Athabasca	

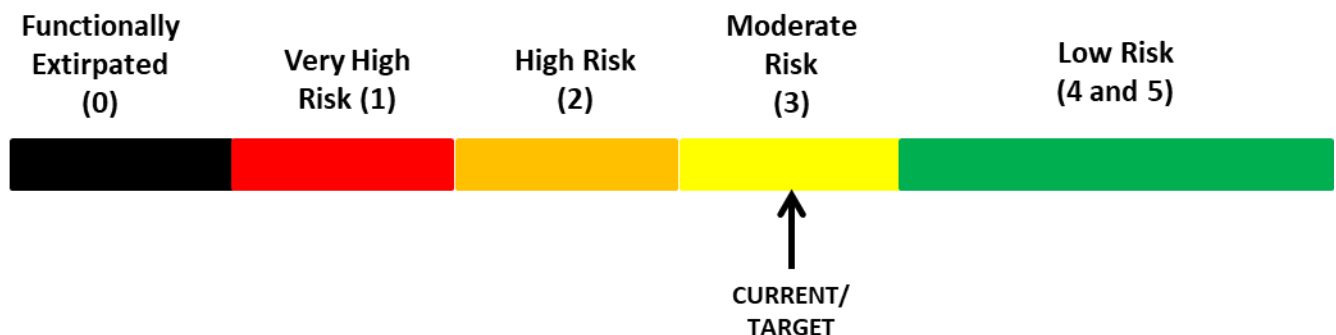
## Background

Long Island Lake is a small lake (221 Ha) located 40 km and 130 km North of Westlock and Edmonton respectively. In 1960s eyed eggs of walleye were introduced into the lake but failed to produce a sustainable population and the walleye became extirpated. Long Island Lake currently supports a sport fishery for northern pike and yellow perch that receives very high recreational use and angling pressure due to the campground facilities, clean and clear water, good quality boat launch and relatively close proximity to major communities. Long Island Lake has been managed with a Sustainable Harvest Recreational Management Fishery Objective (RFMO) with an action of recovery, however a 2018 assessment revealed a suitable northern pike population to re-introduce harvest.

## Fish Population Status

### Northern Pike – Adult Abundance

#### Fish Sustainability Index Adult Density Score



### Yellow Perch- Adult Abundance - Undetermined

## Recreational Fishery Management Objectives

The **focal species** for recreational management is **Northern Pike**. The secondary species managed for recreational objectives is yellow perch. These sport-fisheries are not directly assessed at intervals, and therefore are passively managed. The **Overharvest Protection Need** is assessed as **Very High**.

**Northern Pike** - The recreational fishery management objective for northern pike is **Sustainable Harvest**. The corresponding FSI score for the current mature density of northern pike was assessed as **Moderate Risk (3)** to sustainability in 2018. The northern pike population is currently meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action to maintain this outcome is either a **1 over 63 cm or 2 over 63 cm** regulation. A RFMO of **Sustainable Harvest is recommended for northern pike at Long Island Lake**.

**Yellow Perch** – The recreational fishery management objective being applied is the provincial default (**Sustainable Harvest**). The status of the yellow perch population has not been assessed. The current management action is a regulation of 15 perch, any size.