

Summary Information

Version Date: Jul 2018	Prepared by: Dwayne Latty	Reviewed by: Dwayne Latty	Approved by: Jordan Walker
Waterbody ID: 7018	Surface Area: 127 ha	Hydrologic Unit Code Name (HUC_8): Muriel Creek	Hydrologic Unit Code (HUC_8): 12020105
Sport Fish Species: Northern Pike, Yellow Perch			
Indigenous Fishery: None			
Environment and Parks Region: Lower Athabasca Region (LAR)	Fisheries Management Zone: Northern Boreal 1 (NB1)		Fisheries Management Office: Cold Lake

Background

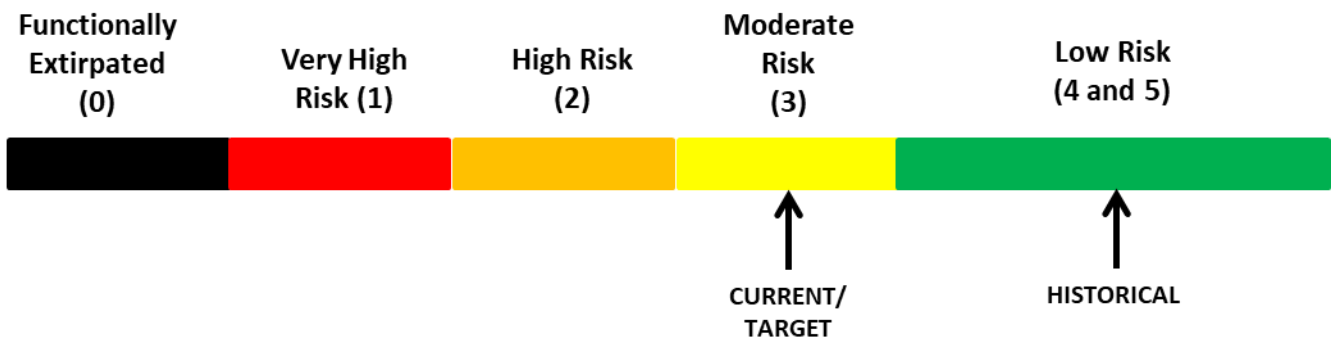
Bluet Lake is a moderately nutrient rich (mesotrophic) lake with a surface area of 127 ha, and a maximum depth of 9.5 m. Bluet and Garnier Lake are also known collectively as Garnier Lakes. Bluet, or South Garnier Lake flows into Garnier Lake to the north during high water levels. Decreasing water levels over the last three decades have isolated the two lakes. The shoreline of Bluet Lake is largely undeveloped; however, the lake is surrounded by pipelines, well sites, and forested grazing leases. A 2008 survey of the tertiary watershed found that road density was 7.7 m/ha, cattle density was 0.133/ha, and urban cover was 1.5%.

Bluet Lake is closed to recreational angling from April 1st to May 14th of each year.

Fish Population Status

Northern Pike – Adult Abundance

Fish Sustainability Index Adult Density Score



Yellow Perch- Adult Abundance - Undetermined

Recreational Fishery Management Objectives

The current **focal species** for recreational management is **Northern Pike**. The secondary species managed for recreational objectives is currently yellow perch. These sport-fisheries are passively managed. The **Overharvest Protection Need** is assessed as **Moderate**.

Northern Pike – The current recreational fishery management objective for northern pike is **Sustainable Harvest**. The corresponding Fish Sustainability Index (FSI) score for the current adult density of Northern Pike was assessed as **Moderate Risk** to sustainability. The northern pike population is currently meeting the status and criteria for the objective of a sustainable harvest fishery. The current management action to achieve this outcome is a harvest regulation of **1 northern pike over 63 cm**. The new management action for a passively managed fishery is a harvest regulation of **1 northern pike over 70 cm**.

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 harvest regulation of **10 yellow perch, any size**.

Management Summary

Management Priority	Species	Overharvest Protection Need	Management Action	Sport Fishing Harvest Regulation
1	Northern Pike	Moderate	Maintenance – Sustainable Harvest	1 over 63 cm (current) 1 over 70 cm (new)
2	Yellow Perch*	Moderate	Maintenance – Sustainable Harvest	10 any size

**Recreational management objectives for yellow perch have not been fully developed into management frameworks, and will be subject to change pending on-going work and development. However, general action statements have been listed for this species within the context of relative abundance, catch rates and trends associated with index netting assessments, in relation to the management of this species at a provincial level.*