

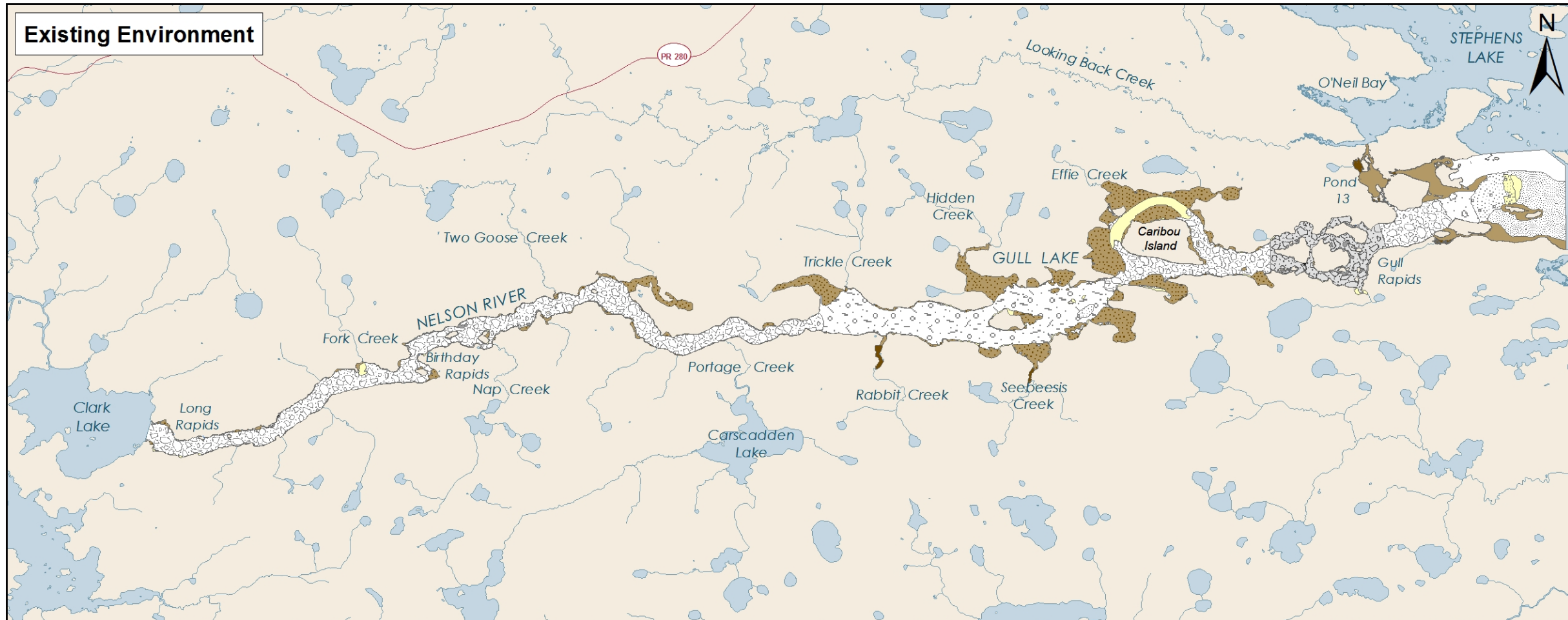


# Keeyask Generation Project Environmental Impact Statement

## Supporting Volume Aquatic Environment



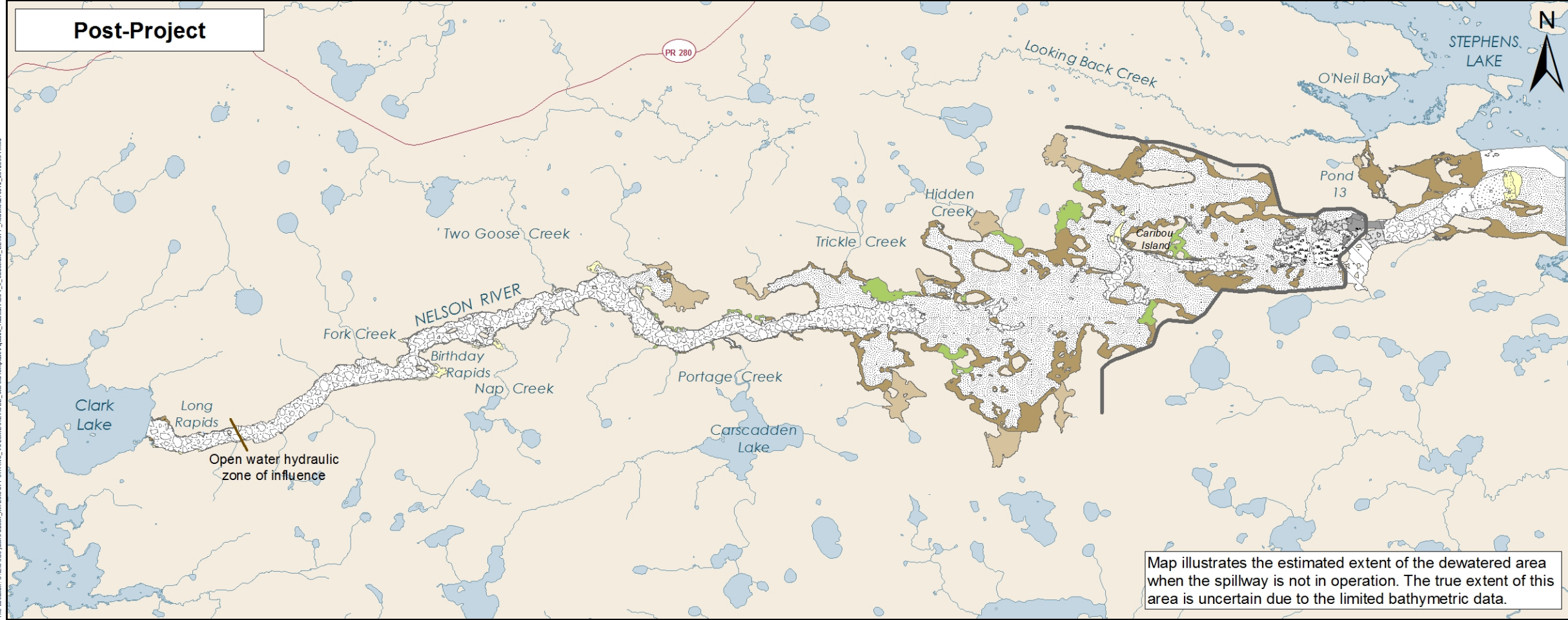
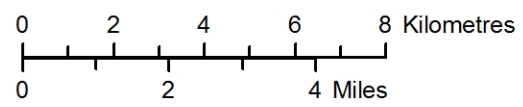
June 2012



- Legend**
- Substrate**
- Bedrock
  - Boulder
  - Cobble/Boulder/Bedrock
  - Cobble/Boulder
  - Cobble
  - Cobble/Gravel
  - Clay
  - Gravel
  - Gravel/Sand
  - Sand
  - Sandy Clay
  - Flooded Terrestrial Soils
  - Silt
  - Silt/Clay
  - Organic
  - Peat
  - No Data
  - Potential Dewatered Area
  - Keeyask Principal Structures

Note: Existing environment frame shows 95<sup>th</sup> percentile inflow and post-Project frame shows Year 30 shoreline. Extents of dewatered area are estimated based on the existing environment 95<sup>th</sup> percentile flow.

Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000  
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006  
 Nelson River Shoreline modelled by Manitoba Hydro

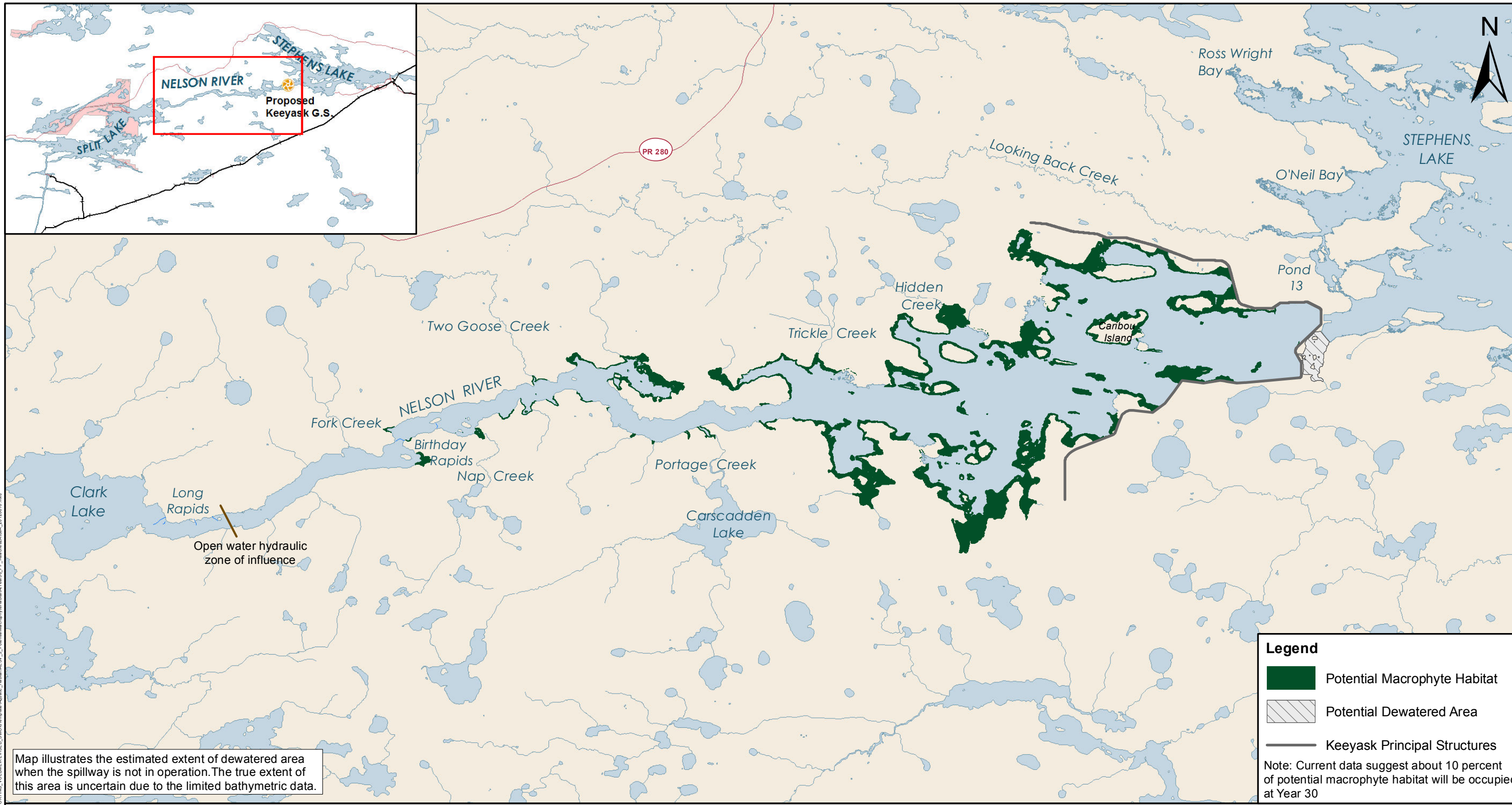


Map illustrates the estimated extent of the dewatered area when the spillway is not in operation. The true extent of this area is uncertain due to the limited bathymetric data.

**Substrate**  
 Reaches 2A to 12



File Location: G:\ES\Newyask\Public\Map\GIS\PP\ORTING\_VOLUMES\REVISED\_Serial\Map\Keeyask\Substrate\_EEC\PP\_Reaches2Ato12\_20120311.mxd

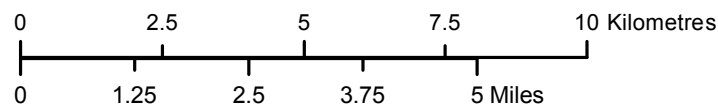


Map illustrates the estimated extent of dewatered area when the spillway is not in operation. The true extent of this area is uncertain due to the limited bathymetric data.

**Legend**

- Potential Macrophyte Habitat
- Potential Dewatered Area
- Keeyask Principal Structures

Note: Current data suggest about 10 percent of potential macrophyte habitat will be occupied at Year 30



Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000  
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006  
 Nelson River Shoreline modelled by Manitoba Hydro.  
 Extents of dewatered area are estimated based on the existing environment 95<sup>th</sup> percentile flow.

## Potential Macrophyte Habitat at Year 30

Post-Project - Reaches 2A to 9A