



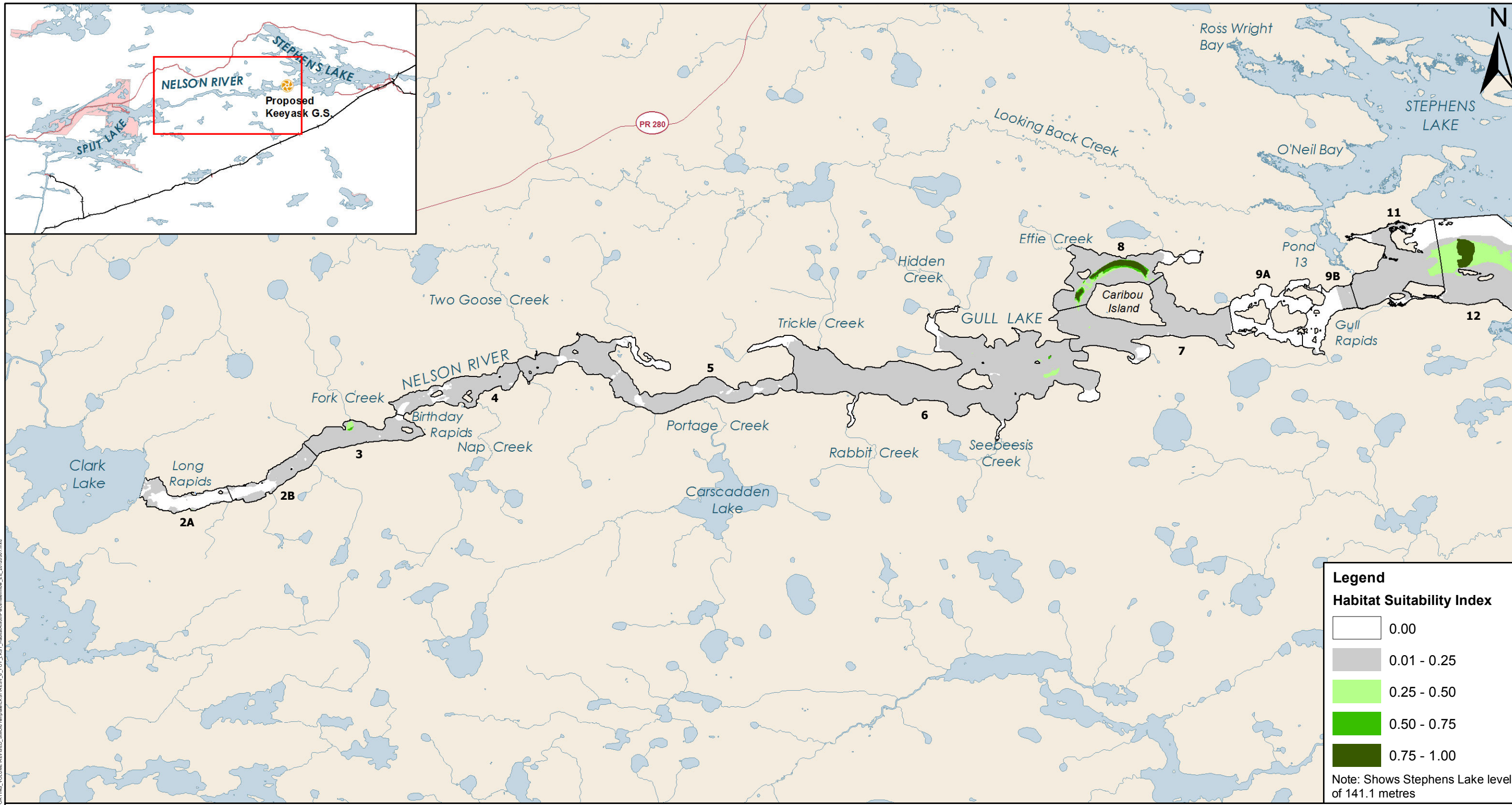
# Keeyask Generation Project Environmental Impact Statement

## Supporting Volume Aquatic Environment

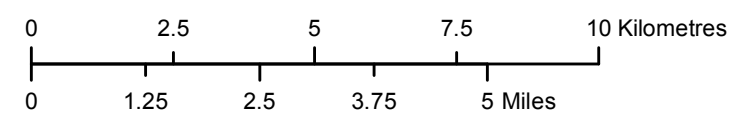


June 2012





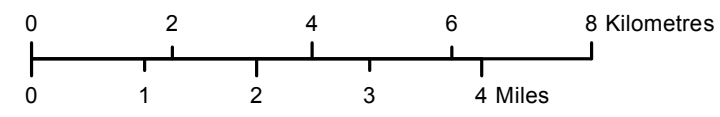
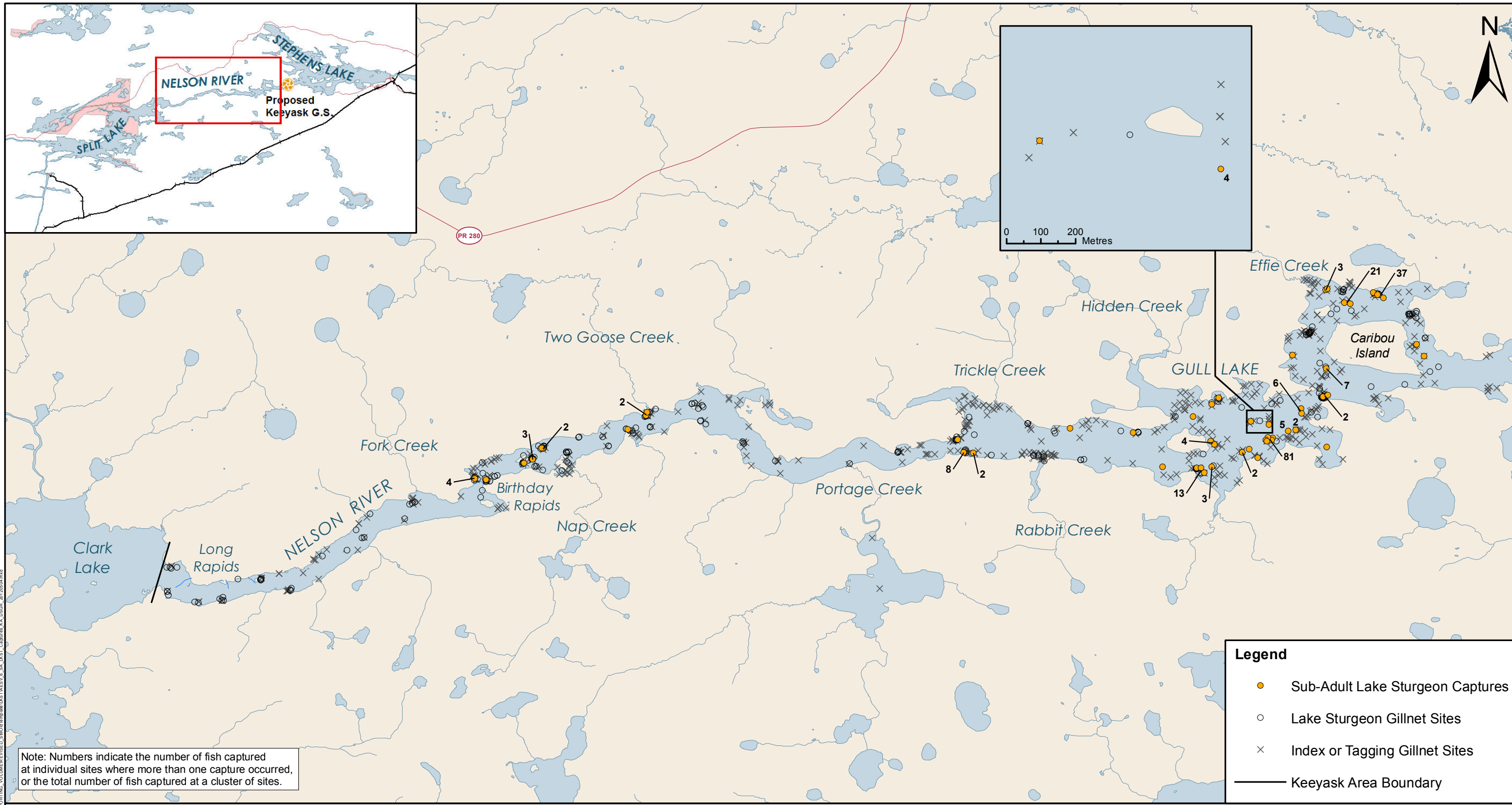
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Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000  
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006  
 Nelson River Shoreline modelled by Manitoba Hydro

## Young-of-the-Year Lake Sturgeon Habitat at 95<sup>th</sup> Percentile Inflow

Existing Environment - Habitat Suitability Index Model

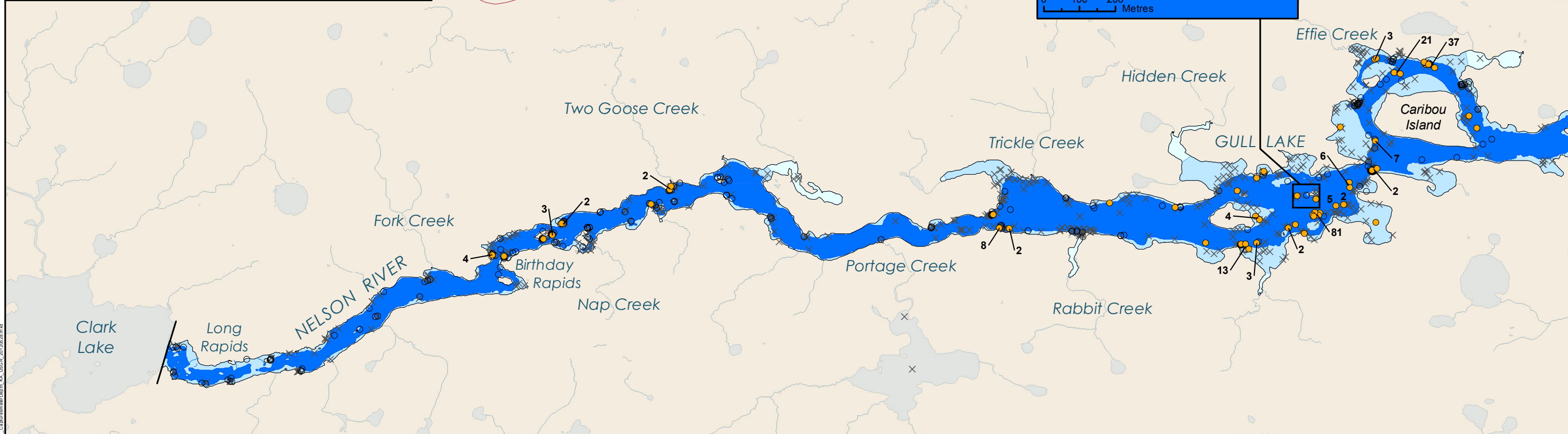
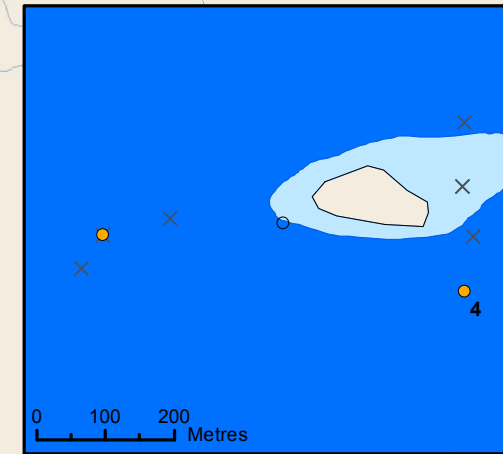
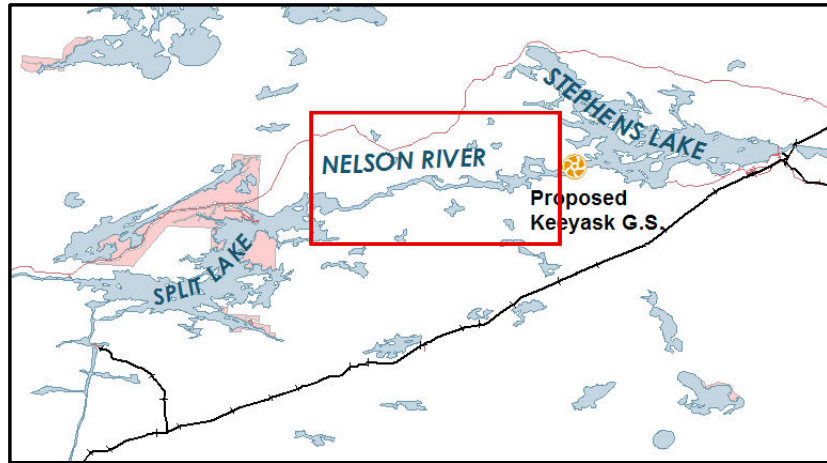


Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000,  
 Nelson River Shoreline modelled by Manitoba Hydro

## Sub-Adult Lake Sturgeon Captures

Keyask Area - Upstream of Gull Rapids



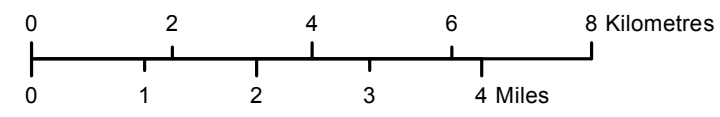


Note: Numbers indicate the number of fish captured at individual sites where more than one capture occurred, or the total number of fish captured at a cluster of sites.

**Legend**

- Sub-Adult Lake Sturgeon Captures
- Lake Sturgeon Gillnet Sites
- × Index or Tagging Gillnet Sites
- Keeyask Area Boundary
- Backwater Inlet
- Deep
- Shallow

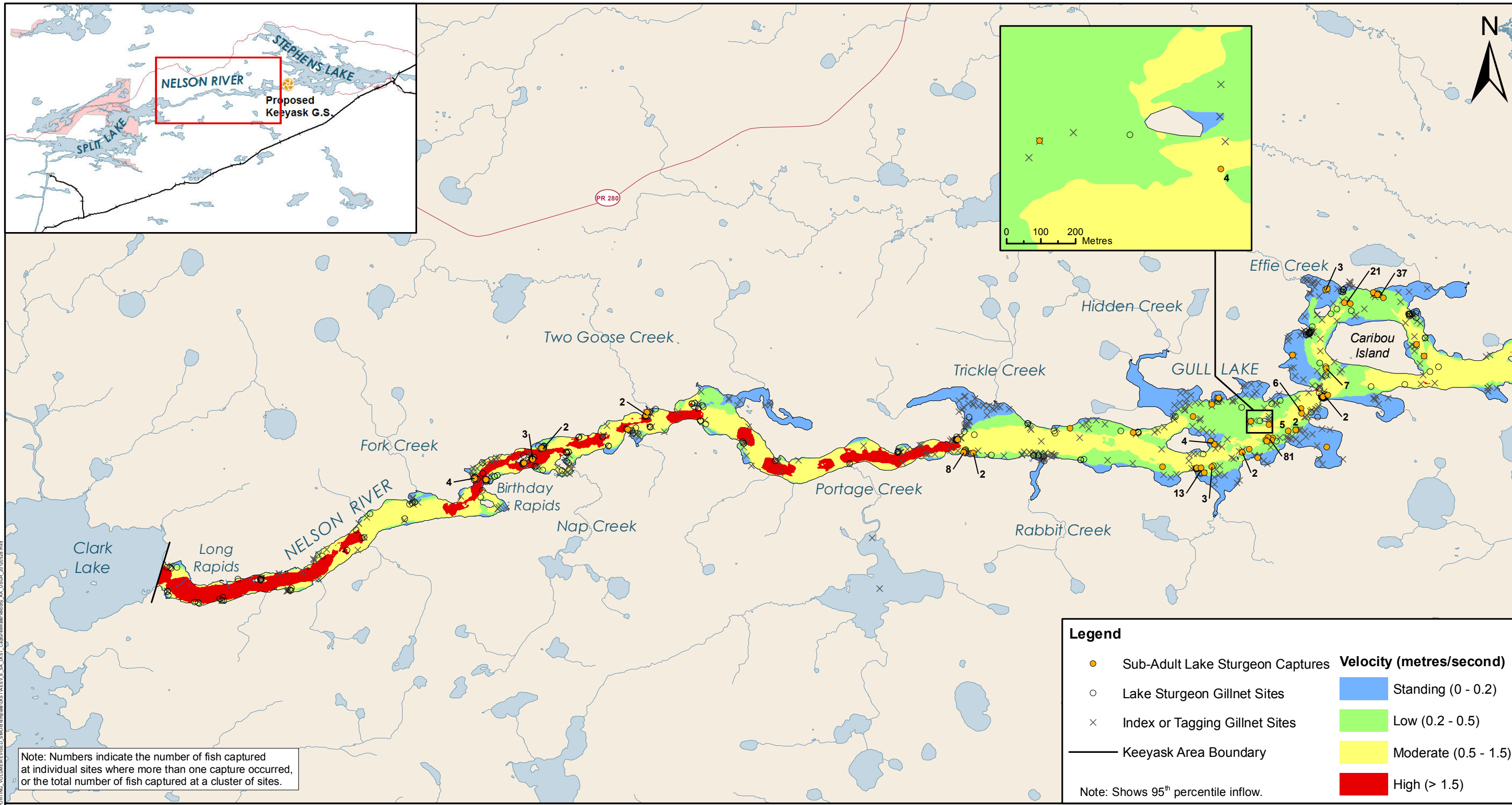
Note: Shows 95<sup>th</sup> percentile inflow.



Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000,  
 Nelson River Shoreline modelled by Manitoba Hydro

## Sub-Adult Lake Sturgeon Captures Water Depth

Keeyask Area - Upstream of Gull Rapids



Note: Numbers indicate the number of fish captured at individual sites where more than one capture occurred, or the total number of fish captured at a cluster of sites.

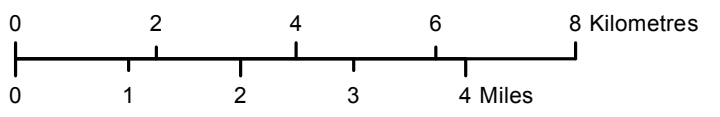
**Legend**

- Sub-Adult Lake Sturgeon Captures
- Lake Sturgeon Gillnet Sites
- × Index or Tagging Gillnet Sites
- Keyask Area Boundary

**Velocity (metres/second)**

- Standing (0 - 0.2)
- Low (0.2 - 0.5)
- Moderate (0.5 - 1.5)
- High (> 1.5)

Note: Shows 95<sup>th</sup> percentile inflow.

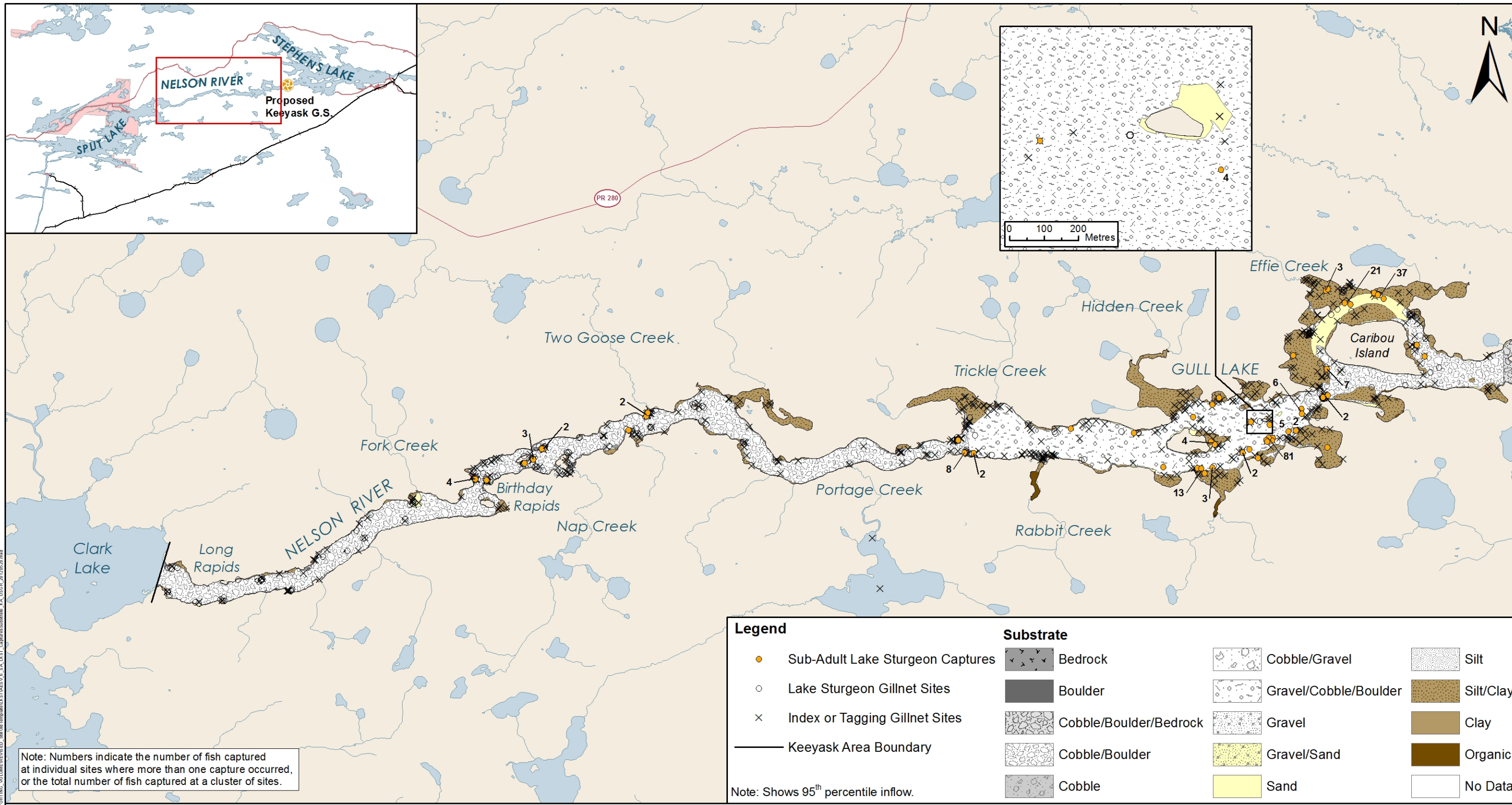


Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000,  
 Nelson River Shoreline modelled by Manitoba Hydro

## Sub-Adult Lake Sturgeon Captures Water Velocity

Keyask Area - Upstream of Gull Rapids





Projection: UTM Zone 15, NAD 83  
 Data Source: NTS base 1:50 000,  
 Nelson River Shoreline modelled by Manitoba Hydro

## Sub-Adult Lake Sturgeon Captures Substrate

Keyask Area - Upstream of Gull Rapids