



**Water level**

- At flood flow (1,248 m<sup>3</sup>/s)
- At low flow (983 m<sup>3</sup>/s)

**Confirmed spawning grounds**

- Lake sturgeon
- Lake whitefish
- Spring guild

**Sediment dynamics**

- Settling
- Transport
- Trapping
- Bottom stabilization
- Low-flow settling – Flood flow transport

**Slope erosion**

- Severely eroding
- Moderately eroding
- Slightly eroding
- Nearly stable

**Sediment types**

- CM: Silty clay or clayey silt
- CM/T: Silty clay or clayey silt over till
- T: Till
- SM: Silty sand or sandy silt
- Pe/B: Pebbles and boulders
- S: Sand
- S-SG: Undifferentiated sand and sand & gravel
- G: Gravel
- R: Rock
- SG/R: Sand and gravel over rock
- G(<<): Traces of gravel
- Silt org.: Organic silt
- SG<sub>t</sub>/T: Thin (< 2 m) sand and gravel layer over till
- SG/T: Sand and gravel over till
- Pt/S: Peat over till
- P<sub>t</sub>/S: Thin (< 2 m) layer of peat over till
- S/T: Sand over till
- SILT(<<): Traces of silt

Eastmain-1-A Powerhouse and Rupert Diversion

**Rupert River  
Areas of Erosion and Sediment Transport  
and Settling at Flood and Low Flow  
Present and Future Conditions**

File: 6675\_ge\_108\_p161-1\_051124.fr10  
Mapping: GENIVAR inc.

December 2005

Plate 161-1

