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Strategic Infrastructure Fund – Preliminary Project Brief

Community: Kugluktuk

Project: Water Intake, Treatment and Storage

Explanation

The Kugluktuk water source is the Coppermine River which is subject to high turbidity in the spring and salt water intrusion in the fall. A small reservoir has been constructed for the purposes of storage during the high-high tide in the fall and a water treatment plant is meant to address the turbidity issue. Unfortunately, during the high turbidity times, the plant was able to obtain a minimum of 11 NTU, which is far in excess of the Canadian Guideline.

During the high turbidity, the suspended matter is very fine and even coupled with storage to encourage settling, the 1 NTU objective is unattainable. The solution to this problem has not yet been determined and could involve the following options:

Relocation of the intake Additional/alternative treatment at source Alternative source during problem periods

In fiscal 2003/04, the Government of Nunavut intends to initiate some planning studies to review the options available to ensure the year round integrity of the Kugluktuk water supply. Design would be initiated in 2004/05 with construction in 2005/06 and future years as may be required.

Without knowing the actual scope of the project, the total estimate cost for this project has been estimated at approximately \$5.5 Million.

Doug Sitland Director, Capital Programs July 16, 2003