

December 9, 1997

Nunavut Water Board
P.O. Box 119
GJOA HAVEN NT X0E 1J0

Attention: Ms. Dionne Filiatram

Improvements to Existing Water Intake and Pumphouse
Baker Lake, NT

Dear Ms. Filiatram:

Enclosed please find a copy of the predesign report for the above mentioned project. On behalf of the Hamlet of Baker Lake, we are submitting this to you for review and approval.

This report develops the concepts for the improvements to the existing water supply system to a design level of detail. As is detailed in the report, the Hamlet plans to implement the following design.

Intake Line: Pipe Size Pipe Length Pipe Material Freeze Protection Mechanical Protection	150 mm nominal diameter 165 metres from pumphouse High Density Polyethylene - DR17 Insulated, heat traced and encased within 300 mm diameter HDPE pipe. Installed below grade for first approximate 120 metres.
Trucked Water System	Water pumped directly from intake to truckfill. Intake pumps upgraded from 3 hp to 5 hp end-suction centrifugal. Water storage system maintained for standby use.
Piped Water System	Existing pumps remain in use. Pumps relocated adjacent to former trucked water system storage tanks. One former trucked water system storage tank used to replace existing steel tank servicing piped system.
Chlorine Addition System	Existing pumps upgraded with higher capacity pumps. Separate pumps and controls to be provided for trucked and piped water systems. Pumps to be solenoid driven. One duty and one on-line standby. Injection location and mixing equipment to remain intact.
Monitoring and Controls	Local and remote alarms to be provided. Remote alarms through existing dialler.

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Should you have any questions or concerns please do not hesitate to contact me, or our Project Engineer, Mr. Derek Chubb, P.Eng., at 867-920-4555. We would appreciate your comments no later than December 19, 1997.

Thank you for consideration in this matter.

Yours sincerely,

DILLON CONSULTING LIMITED



JS
Gary Strong, P.Eng.,
Project Manager

cc.

DC/kb

15225PRCA 97-4653-01 UNREPORTED