

**TOWNS OF BOTWOOD AND PETERVIEW
EXPLOITS REGIONAL WATER SUPPLY**

WATER TRANSMISSION MAIN

PREPARED FOR : TOWNS OF BOTWOOD AND PETERVIEW

PREPARED BY: NEWFOUNDLAND AND LABRADOR
CONSULTING ENGINEERS LIMITED

DATE: MARCH 17, 2003

PROJECT NO: 2113

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1.0 NAME OF UNDERTAKING:

Towns of Botwood and Peterview
Exploits Regional Water Supply
Water Transmission Main

2.0 PROPONENT:

- | | | | |
|-------|--|-----|---|
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3.0 UNDERTAKING:

The Towns of Botwood and Peterview are presently pumping their potable water from Peter's River. The watershed extends over a vast area some 30 kilometers westward from its intake. Many issues and concerns have developed with this existing water supply and brings into question the risk to residents in continuing to operate at this location. Some of the potential hazards which exist in the Peter's River watershed are:

- Solid Waste Incineration Operation
- Wooddale Farms (livestock, crops, pesticides etc.)

- Experimental Tree Farm
- Contaminated Soil REHAB Site
- Jiggs Farm (livestock)
- Road Salt (used in ice control on highways in watershed)

The continued growth of industrial, agricultural and residential development within the watershed has created the potential for contamination of the waters of the Peter's River Basin which directly or indirectly has led to giardia outbreaks in the past. The raw water quality of this river is high in colour, turbidity and organic carbon, all which lead to the high formation potential of trihalomethanes (THM'S) which has caused a boil order advisory throughout the Towns. The proposed development will eliminate the above health risk by providing clean, potable drinking water to the residents.

4.0 DESCRIPTION OF THE UNDERTAKING:

4.1 The transmission main will run from the existing transmission line to Botwood and Peterview located at the existing Peter's River Pumping Station along the north side of Peter's River to a connection on New Bay Road, better shown on a drawing 2113-G1 (General Location Plan).

4.2 Physical Features:

The water transmission main will be buried 1.8 meters under the existing ground profile and will be constructed of ductile iron or polyvinyl chloride (PVC) pipe. The transmission line will be equipped with drain lines, main line valves, and air valve and will include one pressure reducing chamber. All fittings will be buried with only marker posts above ground level. The area is at present approximately 40% covered with pulpwood controlled by, the Abitibi Consolidated Inc. and the remaining areas have been already used from pulpwood harvesting. The transmission main is located between two watersheds known as Peter's River Watershed and Northern Arm Watershed. The transmission main is to be installed at the crest of the watersheds along most of the route, during the initial survey only very small streams with no rivers or major tributaries were encountered.

4.3 Construction:

The construction period is scheduled for the construction season in the year 2003 and 2004. The actual construction will take place from May 2003 to December 2003 and May 2004 to December 2004. The construction activities will involve the following main items of work:

- Excavation and backfilling of trenches.
- Placement of pipe bedding, pipe works and fittings.

- The installation of a pressure reducing chamber.
- The clearing and grubbing of a right of way for construction access. The required right of way for construction operations will be 10m wide. All works will be buried except for marker posts located along the right of way to establish the transmission main location.

The potential sources of pollutants during construction will include heavy equipment exhaust, fuels and lubricants, in addition to disturbance of the vegetation and trees along the right of way. Measures will be enforced regarding fuel and solid waste storage handling. Construction equipment will be restricted to the areas of work that will be defined on the final design drawing. The right of way will be 10 meters wide. Dust control will be enforced throughout the construction period. All blasting procedures will be in strict compliance with Provincial Regulations including filing of an Emergency Response Assistance Plan, with the Explosive Division of Energy Mines and Resources Canada.

Solid waste material during construction will be disposed in accordance with Provincial Regulations. Materials permitted to be disposed at a Municipal Disposal Site will require the approval of the Governing Authorities.

4.4 Operation:

This development will provide a connection to the Exploits Regional Water Supply. Becoming a part of the larger regional operation will ensure that the residents of Botwood and Peterview will maintain a state of the art treatment system that will meet or exceed today's and future water quality standards. The operation and maintenance of the proposed infrastructure will be under the control of the Exploits Regional Water Board who, at present, operate the existing Water Treatment Plant and provides water to the Towns of Grand Falls - Windsor and Bishop's Falls.

There will be no source of pollution during operations and no resource conflicts are expected throughout the use of this development.

4.5 Occupations:

Following is a list of occupations that are expected to be employed during the design and construction period.

- 2- Professional Engineers
- 2- Engineering Technicians
- 2- Surveyors
- 4- Rod and Chainmen
- 4- Construction Inspectors
- 3- CAD Operators

- 2- Secretaries
- 25- Labourers
- 3- Carpenters
- 4- Pipe Fitters
- 1- Electricians
- 15- Heavy Equipment Operators
- 12- Truck Drivers
- 2- Flag People
- 2- Drillers/Blasters
- 2- Office Clerks
- 4- Construction Foremen/Superintendents

4.6 Project Related Documents:

One document has been prepared for the proponent to date.
 Town of Botwood Regional Water Supply Study
 January 9, 2002

5.0 APPROVAL OF THE UNDERTAKING:

Following is a list of the main permits, licences and approvals required for this project.

<u>Approval/Certificate/Licence/Permit</u>	<u>Authority</u>
Environmental Registration	Department of Environment & Labour Environment Assessment Division
Blasters Certification	Department of Environment & Labour. Workplace Safety Programs Division
Flag Persons Certification	Occupational Health & Safety
Magazine Licence (Temporary)	Mines & Energy Canada
Quarry Development Permit	Department of Mines & Energy Mineral Lands Division
Water and Sewer Works	Department of Environment & Labour
Certificate of Environmental Approval	Environment Management Division
Authorization for Works or Undertakings Affecting Fish Habitat	Fisheries & Oceans Canada
Safety Training and Supervision Certificate of Recognition	Newfoundland & Labrador Construction Safety Association

Permit to Occupy Crown Lands	Department of Government Services and Lands - Crown Lands Division
Waste Disposal Approval	Department of government Services and Lands - Government Services Centre
Permit to Cut Timber	Department of Forest Resources & Aquafoods - Government Service Centre
Permit to Occupy	Wooddale Land Development Advisory Authority
Permit to Occupy	Abitibi Price Consolidated Inc.

6.0 SCHEDULE:

The earliest start for construction of this project would be June 2003 with the latest being August 2003. It is of the utmost importance that this project start as soon as possible, with completion of first phase in the year 2003. The Towns of Botwood and Peterview are at present on a boil order advisory and clean safe potable water is unavailable.

7.0 FUNDING:

The Towns of Botwood and Peterview have requested funding assistance under the Canada/Newfoundland Infrastructure Program, which is being administered through the Atlantic Canada Opportunities Agency (ACOA) and the Department of Municipal and Provincial Affairs. The Department of Municipal and Provincial Affairs supports the Application for Funding.

Date

Mr. Ed. Evans
Town Manager