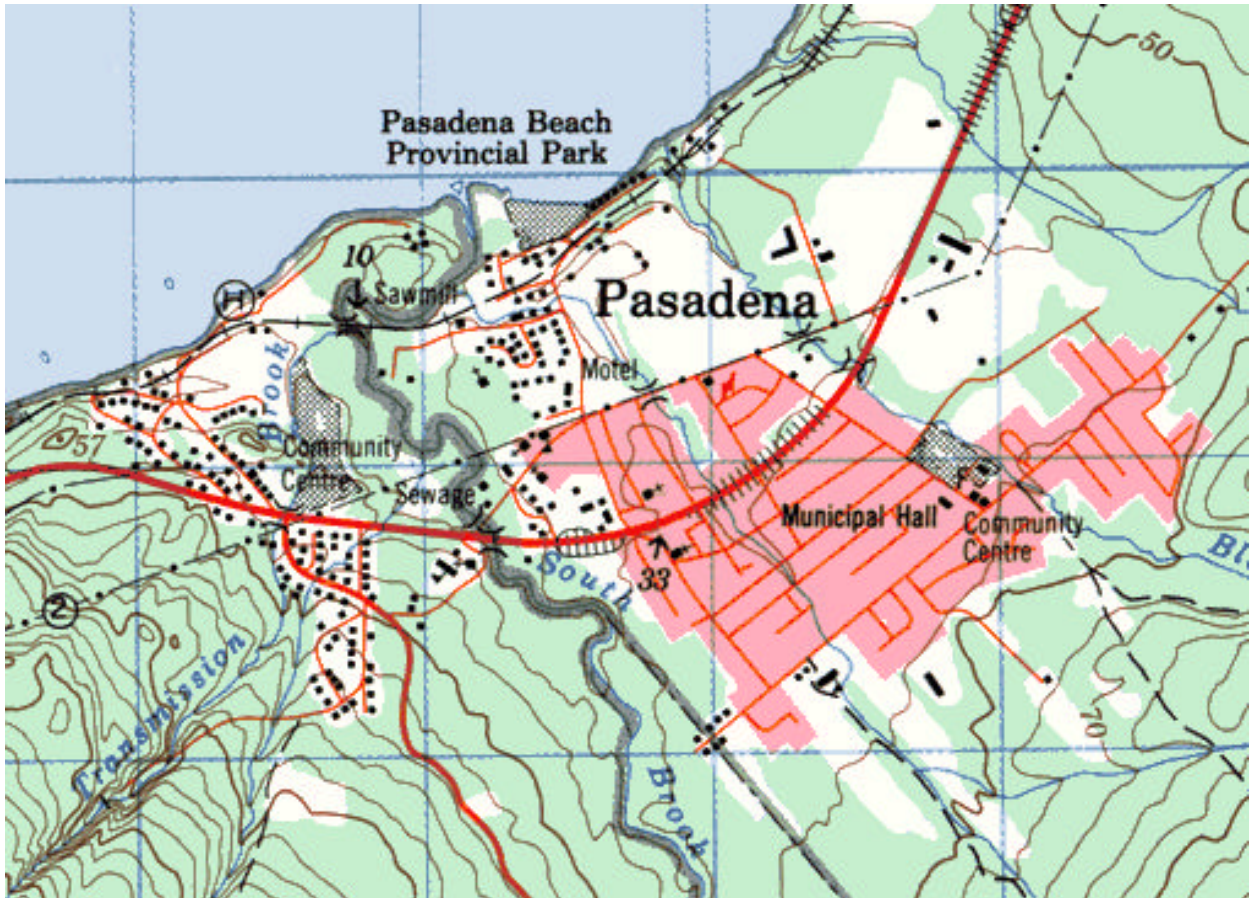


**ENVIRONMENTAL ASSESSMENT ACT
REGISTRATION OF AN UNDERTAKING
South Brook Relocation
Pasadena, NL**



PREPARED BY:
DATE:

THE TOWN OF PASADENA
JANUARY 25, 2005

ENVIRONMENTAL ASSESSMENT ACT REGISTRATION OF AN UNDERTAKING

NAME OF UNDERTAKING: South Brook Relocation

PROPONENT:

- (I) Name of Corporate Body: Town of Pasadena
- (ii) Address: P O Box 149
Pasadena, NL A0L 1K0
- (iii) Chief Executive Officer:

Name: Mr. James Merrigan
Official Title: Town Manager
Address: P O Box 149
Telephone No.:Pasadena, NL A0L 1K0

- (iv) Principal Contact Person for Purposes of environmental assessment:

Name: Michael C. Gorman, P. Eng.
Official Title: Vice President, Atlantic Engineering Consultants Ltd
Address: 34 Main Street, Corner Brook, NL A2H 1C3
Telephone No.:634-3612

THE UNDERTAKING:

(i) Nature of Undertaking:

Relocation of a section of South Brook between Church Street and the Trans Canada Highway.

(ii) Purpose/Rationale/Need for Undertaking:

The section of South Brook between Church Street and the Trans Canada Highway is an old section of Brook with serpentine course. Heavy flooding and ice jams during the past 15 years have caused extensive erosion along this course of brook and poses a significant threat to the 14M gallon sewage treatment lagoon. Erosion, even during normal rainfalls, particularly since the March 31, 2003 storm, is continually undermining the gabion wall protecting the lagoon. It is expected to continue until the lagoon embankment eventually fails. Failure of the lagoon embankments could cause up to 14M gallons of untreated sewage to catastrophically flow into South Brook, Deer Lake and subsequently the Humber River and the Bay of Islands. The relocation of South Brook would prevent this. In addition to the above, it is expected that the gabion wall will have to be reset and then protected by armour stone.

DESCRIPTION OF THE UNDERTAKING:

(I) Geographical Location:

The proposed project is located within the Municipal Boundaries of the Town of Pasadena, more specifically, on South Brook between the Church Street bridge and the Trans Canada Highway (Refer to Map 1) the project is located at 5,429,000N, 455,000E (NAD 27).

(ii) Physical Features:

This project involves the excavation of a section of the South Brook flood plain. The length of the new brook channel would be approximately 125 m, replacing a 375 m section of the existing brook. The cross section of the brook will be designed in consultation with the appropriate authorities and is expected to have a bottom width of 6 m.

Ice rafting, causing blockage of the Brook has historically occurred primarily as a result of the low hydraulic grade and meandering nature of the brook. Generally the flood plain is covered with clumps of alders while the ground consists of sandy soil with cobbles and boulders which has facilitated the brook changing its course during heavy runoff and following breakup of ice dams. During these conditions, heavy erosion occurred on the outside bends of the brook adjacent to the gabion retaining wall at the east side of the sewage treatment lagoon causing the gabion to partially fall into the brook. Flash flooding occurs when the ice dam is broken up.

iii) Construction:

It is expected that this work would take place during the summer of 2005 and be

appropriately timed to coincide with low water levels and after spawning activities are completed. The work is expected to take two (2) weeks to complete. The exact date of commencement and duration of physical construction will be coordinated with appropriate authorities including the federal Department of Fisheries and Inland Waters. All work will be completed “in the dry”.

The most significant source of potential pollutants associated with this work would be leakage of hydrocarbons or other liquids from equipment and possible higher silt loadings during rainfalls. Measures will be taken, in consultation with appropriate authorities, to mitigate these risks.

(iv) Operation:

It is expected that upon completion of the construction, that there will be no operational requirements.

(v) Occupations:

The following is an enumeration of occupations anticipated to be associated for this undertaking in accordance with the “National Occupational Classification 2001;”

<u>Group</u>	<u>Title</u>	<u>No.</u>
2131	Civil Engineers	1
2231	Civil Engineering Technologist	2
2231	Civil Engineering Technicians	2
0016	General Manager - Construction Co.	1
7471	Excavator Operator	2
7271	Carpenter	1
7611	Construction Labourer	2

(vi) Project Related Documents:

N/A

APPROVALS REQUIRED:

<u>Name of Authority</u>	<u>Permit/License/Approval Required</u>
1. Provincial Archeology Office	Excavation
2. Provincial Department of Environment	Appurtenant Structures
3. Provincial Department of Environment	Water Course Canalization
4. DFO Canada	Authorization for Undertaking Affecting Fish Habitat
5. Provincial Department of Municipal Funding (CNIP)	

- & Provincial Affairs
6. Provincial Department of Municipal Approval to Tender Contract/Award Contract
& Provincial Affairs
7. The Town of Pasadena Approval to Construct

SCHEDULE:

The earliest start date would be June 30, 2005, providing all necessary approvals, licenses, permits and funding are in place, and as permitted by D.F.O.

The primary reason for this date is to mitigate hazards to aquatic habitat.

FUNDING:

Funding will be requested through the Federal/Provincial Canada-Newfoundland Infrastructure Program (CNIP). The cost will be determined based on Regulatory Agency Requirements.

Date

Signature of Chief Executive Officer

PROPONENT:

PROJECT:

Consultant:

THE TOWN OF PASADENA

SOUTH BROOK OVERFLOW CHANNEL

Atlantic Engineering Consultants Limited

