

Jeremy's Construction Ltd.

Environmental Assessment

Registration Document

Proposed Doyles Quarry Extension

Submitted by:

Jeremy's Construction Limited

P.O. Box 137

Doyles, NL

A0N 1J0

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1.0	Name of undertaking	Doyles quarry extension
2.0	Proponent	
2.1	Name of corporate body	Jeremy’s Construction Ltd.
2.2	Address	P.O. Box 137 Doyles, NL A0N 1J0
2.3	Chief executive officer	Jeremy Pope Owner Doyles, NL A0N 1J0
2.4	Principal contact person	Jeremy Pope 709 695 8882 jeremypope69@hotmail.com

3.0 The undertaking

3.1 Nature of the undertaking

The proposed Doyles Quarry extension site is 3.5 hectares in size, to be developed for the purpose of gravel, sand and rock removal. The site is located approximately 2.5 kilometres due east of Doyles. Site access will be via an existing 1.6 km haul road, as well as established access roads developed within the existing quarry.

3.2 Purpose/rationale/need for undertaking

The development is required to allow Jeremy’s Construction continued construction operation, a local supplier of gravel, sand and rock. Currently, Jeremy’s Construction is mainly supplying sub-contractors of Emera’s Maritime Link Project with said materials to build and construct the access roads and transmission line. He also supplies on demand to local businesses and private customers. The life expectancy of the 3.5-hectare extension is 7-8 years.

4.0 Description of the undertaking

4.1 Geographic location

The proposed extension is located 2.5 kilometres East of Doyles, and near an existing quarry already being developed by Jeremy’s Construction, between the communities of Benoit’s Siding and Doyles, in the Codroy Valley, NL. Please refer to Figure 1. for approximate location of the proposed project site. The proposed extension is not near any residences or cabins. The closest being 1.5 km East of the 1.6 km haul road off the Trans-Canada Highway. Its location is contained in an area of a former Waste Management site, with 9.5 hectares obtained, leased and quarried by Jeremy’s Construction for the purpose of supplying materials. The proposed extension site is 50 metres off the Little Codroy River, a provincially recognized salmon river.

4.2 Physical features

4.2.1 Project site description

The primary physical feature of this project will be the quarry itself. Access to the site will be via an existing 1.6 km haul road, currently leased by Jeremy's Construction Ltd. and within partially undeveloped Crown Land. There are no municipal boundaries in this area and no rezoning required.

4.2.2 Existing biophysical environment

The climate in Codroy Valley is cold and temperate. The rainfall in Codroy Valley is significant, with precipitation even during the driest month. The climate here is classified as Dfb by the Köppen-Geiger system. The average annual temperature is 4.0 °C in Codroy Valley. About 1390 mm of precipitation falls annually.

The landscape in the vicinity of the Codroy Valley is dominated by good forest growth. The main tree species is balsam fir in association with black spruce and white spruce. Yellow birch, trembling aspen and tamarack are common. Eastern white pine, black ash, balsam popular, and white birch also occur. On flat coastal areas, extensive plateau bogs occur, while slope fens and alder swamps are the dominant wetland type on nutrient rich slopes and valleys.

4.3 Construction and operation

The proposed quarry extension is 3.5 hectares in size. The construction phase of the site development will consist of the following main components:

- A.) Site access
- B.) Site clearing; and
- C.) Quarry development

4.3.1 Site access

Access to the site will be via an existing 1.6 km haul road, currently leased by Jeremy's Construction Ltd. Access roads will be constructed as required within the proposed quarry property during development and operations.

4.3.2 Site clearing

Initially, some tree clearing will take place and will be harvested manually. Merchantable timber will be salvaged through the use of a hand held chainsaw. The wood will be stacked and removed from the site to be used primarily as firewood. Once all trees in the area have been harvested, the topsoil and grubbing will be removed and stockpiled for rehabilitation purposes.

4.3.3 Quarry development

As per the original permit application submitted to the Department of Natural Resources the proposed extension site will be mined using heavy equipment such as excavator and trucks, and will have a gravel screener. Settling ponds and a wash plant will not be required for production at the site. The screener will be placed in close proximity to pit faces to maximize productivity and will be moved as necessary.

Typical quarrying methods will be utilized to collect overburden, sand and gravel deposit at the site. The operation will include excavation, screening, and loading of sand and gravel materials at the working face of the quarry. Materials will be processed to required specifications and stockpiled on site for transportation. Waste and oversized rock will also be stockpiled for future use.

4.4 Potential sources of pollution during construction and operation

The construction phase of the development will consist of earth-moving activities. The potential sources of pollution during these activities include site drainage, waste and litter, noise, air emissions and potential release of petroleum hydrocarbons.

Domestic waste will be collected and disposed of per the Waste Material Disposal Act. Sewage will be handled by approved facilities during construction, and holding tanks will be pumped on an as-required basis.

Equipment on site will have appropriate emission-control equipment. Dust control measures, such as application of water, will be applied as needed. Noise levels are not expected to increase over typical operations.

The handling of petroleum products on site will comply with the Storage and Handling of Gasoline and Associated Products Regulations.

4.5 Potential resource conflicts

Potential resource conflicts are limited due to restricted site access, but could include the potential use of the area for recreational purposes or domestic firewood cutting.

4.6 Occupations

Site construction and operations for the proposed extension will likely include the following occupations, classified as per *National Occupational Classification, 2016*, and equipment. All listed personnel are existing employees or anticipated direct-hires, if available.

Quarry operations

- 1 Foreman/Supervisor - 8221
- 2 Heavy equipment operators – loader/excavator - 7421
- 1 Crushing equipment operator - 7421
- 3 Truck drivers - 7511

4.7 Reclamation and closure

4.7.1 Reclamation methods

Jeremy’s Construction Ltd. standard reclamation practices, in keeping with permit conditions include:

- Surficial soils, subsoil, and grubbing will be stripped to the top of the aggregate to prepare each excavation phase.
- This material will be used as required for on-going and future reclamation.
- Sloping around the perimeter of the area will be achieved by leaving a buffer of sufficient aggregate in place along the boundary so that when re-contoured with a bulldozer, the pit-face of the mined out are can be sloped to the required angle.
- Following final sloping and contouring of the pit floor, the preserved organic material and subsoil will be spread and seeded.

4.8 Project options considered

Consideration of alternate locations were given, however, the current location, which is currently operated by Jeremy’s Construction, was selected due to the availability of acceptable resources and the proximity of the current quarry.

4.9 Project related documents

Jeremy’s Construction Ltd. has previously applied for a quarry permit in the identified area.

The following is a list of likely permits, licences and approvals required for this project, some of which already in progress:

Approval/certificates/permits	Regulatory authority
NL Environmental Assessment Registration	NL Department of Environment and Climate Change, Environmental Assessment Division
Lease/Permit to Occupy Crown Lands	NL Department of Environment and Climate Change, Crown Lands Division
Preliminary Application to Develop Land	Service NL
Water use permit	NL Department of Environment and Climate Change, Water Resources Division
Commercial Cutting Permit	NL Department of Natural Resources, Forestry and Agrifoods Agency – Massey Drive, Corner Brook
Quarry permit application no. 134426	NL Department of Natural Resources

6.0 Schedule

Registration document submission	March 2017
Government review and decision	May 2017
Operations	End of May 2017, with only a week needed to prepare site.

7.0 Funding

The approximate cost of the project will be \$5,000 CAD, in clearing the area and creating needed access roads. The funding for this project will be provided by Jeremy’s Construction Ltd.

8.0 Submission

Date

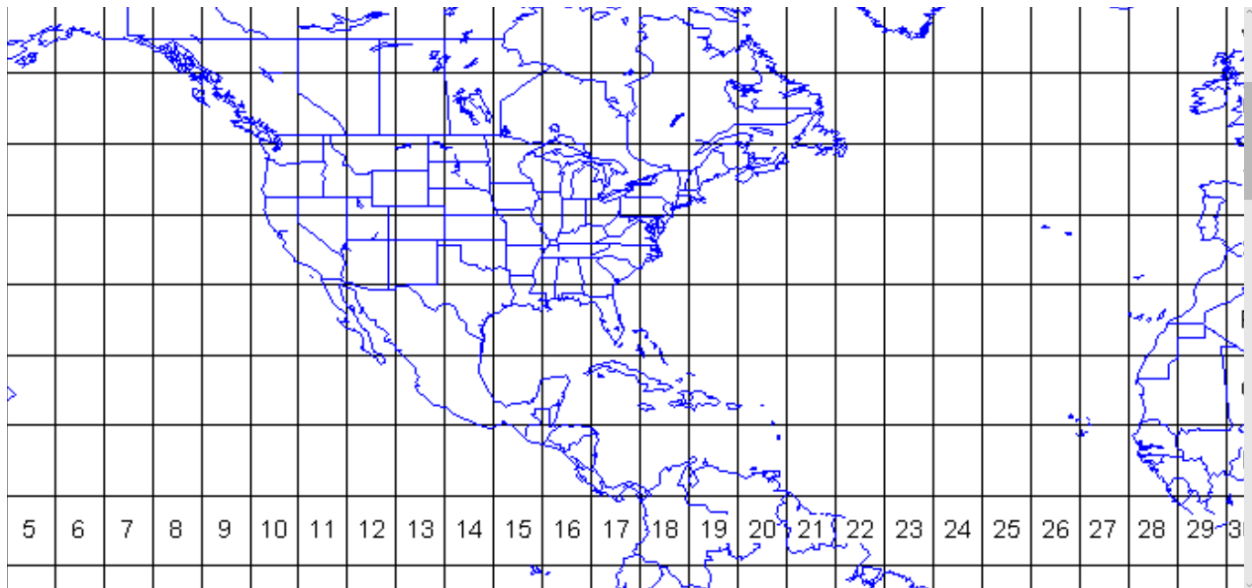
Name: Mr. Jeremy Pope

Position: Owner, Jeremy’s Construction Ltd.



Figure 1: Google Earth proposed quarry extension

Figure 2: UTM Zone 21 coordinates of proposed extension site



- | | | |
|----|-----------|------------|
| 1. | 338190 mE | 5299680 mN |
| 2. | 338515 mE | 5299815 mN |
| 3. | 338550 mE | 5299730 mN |
| 4. | 338230 mE | 5299590 mN |
| 5. | 338380 mE | 5299710 mN |

6. Approximate Centre

Figure 3: Site layout drawing with proximity to Little Codroy River

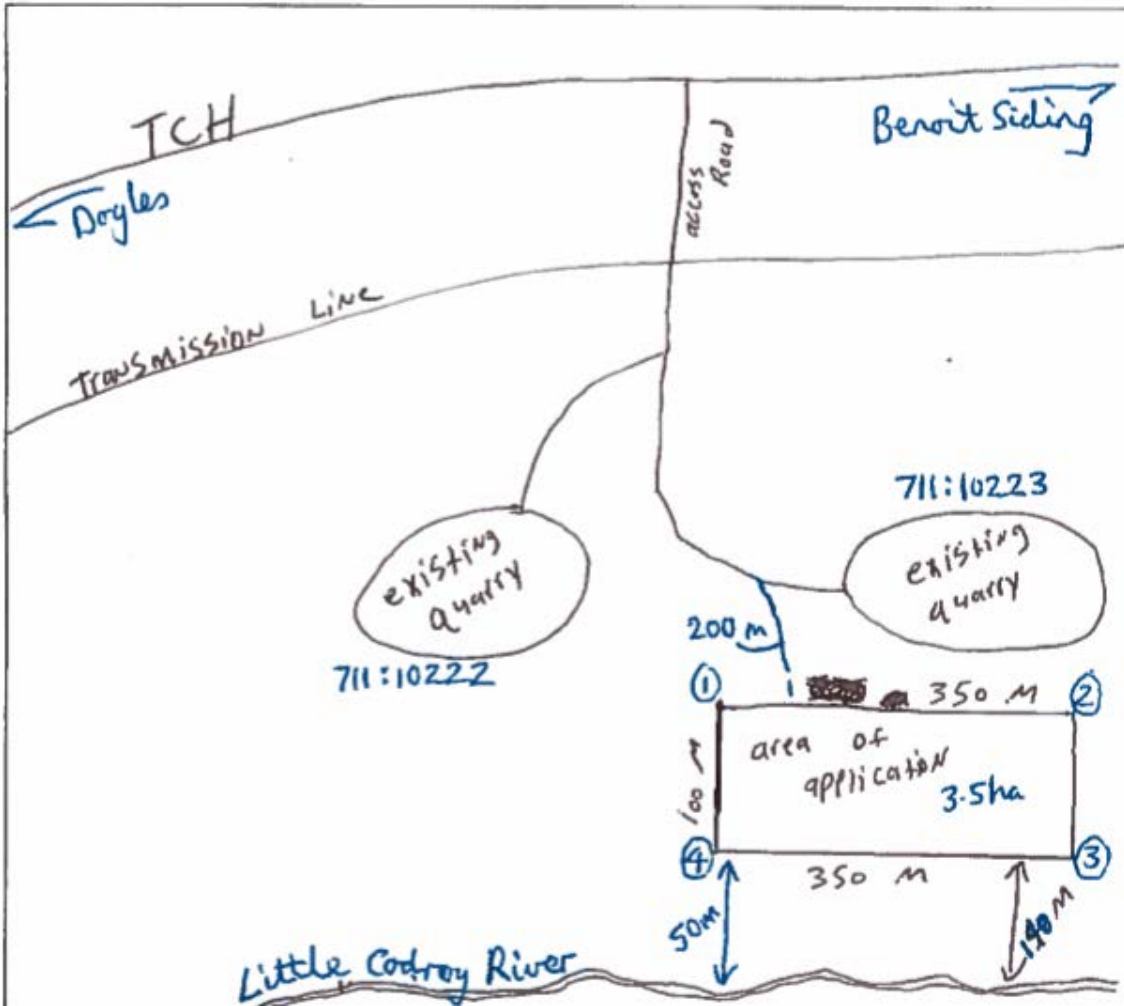
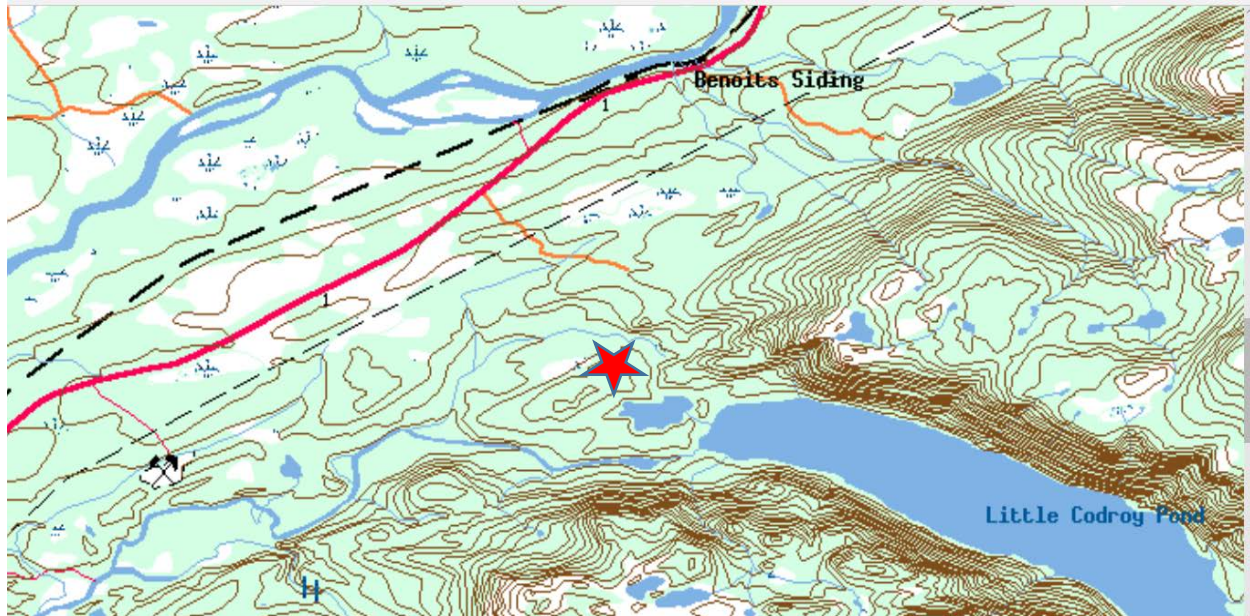


Figure 4: Topo 1:50,000 map of area for proposed quarry extension. Red star indication of approximate location.



NTS 011: Maritimes East

Latitude: 47 degrees 49' 49" North 47.8302777

Longitude: 59 degrees 11' 24" West -59.1900000

Figure 5: Google Earth with coordinates

