

H&H Enterprises Ltd

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**ENVIRONMENTAL ASSESSMENT
REGISTRATION DOCUMENT**

Proposed Sand and Gravel Quarry

Labrador West

Prepared by;

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For

H&H Enterprises

Wabush, NL

March 2011

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1.0 Name of the Undertaking: Hugette Lake Sand and Gravel Quarry

2.0 Proponent: **H&H Enterprises Ltd**

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Field Supervisor: Gerald Woodford (709) 282-3453

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3.0 The Undertaking

a) Nature of the Undertaking

The proposed project involves the development of a sand and gravel quarry site, approximately 2 km north of km 0.5 on Route 500 (Trans Labrador Highway). The site is accessed via the Trans Labrador Highway and an existing, well maintained gravel access road. The proponent proposes to develop the area as an open pit operation to produce sand and granular material such as concrete aggregates, class A and class B road material and for general construction work in Western Labrador.

b) Purpose/Rationale/Need for the Undertaking

The purpose of this project is to produce a product for future use as raw materials for construction, mining and commercial use in Labrador West. With the expansion of mining operations in Labrador City and the opening of new mines in the area, a significant demand for an increase in production of these materials is anticipated. The proponent has title to the area adjoining the quarry area but this deposit is nearly exhausted.

4.0 Description of the Undertaking

Geographic Location

The project is located on an esker deposit approximately 28 km west of Labrador City where other contractors are producing similar granular products and as seen on the enclosed drawings. As noted above, the area is 28 km west of Labrador City, the site of the mining operations of Rio Tinto Iron Ore (IOCC) and Wabush Mines. It is also approximately 10 km east of the new mining area of Bloom Lake in nearby Quebec.

Physical Features

Project Site Description:

The principal feature of the site is a very prominent shrub covered esker deposit that consists of an elongated ridge of natural sand and gravel which is a remnant of an ancient river bed derived from glacial melt water. Processing of the material will be limited to excavation, crushing and screening. There will be no blasting involved. The quarry boundaries are sited to ensure a 50 meter buffer zone from the existing access road and two small ponds, the only nearby water body and due to the porous quality of the esker, all water is filtered during rainfall runoff.

Existing Biophysical Environment

The proposed site is located in an area of scrub vegetation, scattered black spruce trees and interspersed with occasional marshy areas. The only water body of note within 15 km of the site is Hugette Lake, some 2 km north east of the site. Most of the summits of the surrounding ridges are barren due to the harsh winter climate which has short warm summers and cold winters which lasts from October to April. Summer temperatures can reach 30 degrees while winter daytime temperatures average around minus 20 during December, January and February. The colder temperatures in this area as compared to Goose Bay near sea level is due to the higher elevations and the prevailing northwest winds that flow in from Ungava Bay.

Vegetation

The area of the proposed quarry is sparsely wooded with dwarf black spruce and occasional small ponds and Hugette Lake with an area of approximately 3 square km. Shrub growth on the esker itself is sparse and covered with caribou moss which is typical for this region. The only water course in the vicinity is the creek that drains Hugette Lake. No discoloration or contamination is noted as the creek is nearly a kilometer distant.

Inland Fish

The creeks flowing in and out of Hugette Lake has occasional pan fry trout and the occasional lake trout in the deeper water. Very few, if any, local fishermen visit the area.

Wildlife

Occasional black bears roam the region but are not overly abundant. The George River caribou migrate further to the east but are not abundant in recent years. There are the usual population of foxes and martens that are trapped by local hunters.

Construction

The construction phase of site development will consist of clearing and grubbing of the top vegetative layer from the esker and preparing the site for operations.

Clearing and Grubbing

Any merchantable timber removed during quarry development will be salvaged but this is expected to be minimal. There is no topsoil on the esker except caribou moss.

Site Development

The proposed quarry site covers a total of 1.5 hectares. Initial construction activities will involve the removal of vegetative cover as described to advance the working face. Surficial organics consists of the non-commercial caribou moss.

5.0 Potential Sources of Pollution During Construction

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

Site runoff will be directed to the lower vegetative areas which will filter suspended solids. In addition, barriers will be installed as required to prevent siltation of water bodies/streams.

Domestic waste generated during construction and operations will be collected and disposed of at the Labrador West Landfill Site as per the Waste Materials Disposal Act.

All equipment will have appropriate emission controls. All vehicles will follow a designated project route and will be properly maintained to minimize noise. All vehicles will have exhaust systems regularly inspected and mufflers operating properly. There is a government inspector in the area that makes regular spot checks on heavy equipment.

Petroleum products will not be stored on site during construction; petroleum products will be handled as per Storage and Handling of Gasoline and Associated Products Regulations under the Environmental Protection Act.

6.0 Operations

Typical excavation methods will be employed to collect the commercial materials (sand and gravel) at the proposed site. The operation will include the excavation and loading of the native sand and gravel materials at the working face of the quarry, crushing/screening, and transportation of these materials for use off-site in Labrador West. Waste and oversized rock will also be stockpiled for further use.

Appropriate ditching will be maintained on site to ensure silt and general site runoff is controlled and does not adversely affect the surrounding environment. In addition, perimeter ditching and settling basins, as required, will be located to prevent migration of surface water drainage from non-operating areas. The ground and facilities will be maintained according to health and safety concerns.

Equipment on site will include the following:

- Excavator (access road construction and loading at the working face)
- Tandem dump trucks (material transportation)
- Front end loader (material handling)
- Mobile crusher and screener

The quarry operation will typically run from May to October, in accordance with demand for the product. The quarry will potentially operate for five years.

7.0 Termination of Operations

Site rehabilitation shall be in accordance with standard quarry operations. Upon completion of quarry activities, all slopes shall be graded to 30 degrees and the remaining areas will be graded to a level surface or as directed by a government quarry inspector from Natural Resources.

8.0 Occupations

Site construction and operations for the proposed quarry will include the following occupations classified as per National Occupation Classification, 2006

Construction Phase

- 1 Site Foreman/Supervisor (7217)
- 2 Heavy Equipment Operator (7421)

Operations phase

- 1 Quarry Manager (0811)
- 1 Quarry Foreman/Supervisor (8221)
- 4 Heavy Equipment Operators – 2 front end loader, 2 crusher (7412)

5 Truck Drivers (7411)

2 Heavy Equipment Mechanics (7312) – located offsite

9.0 Project Related Documents

There are no project related documents.

10.0 Approval of the undertaking

- Environmental Protection Act – Assessment Regulations: Permit to Proceed
- Quarry Materials Act and Quarry Minerals Regulations: Quarry permit

11.0 Schedule

Registration Document Submission - March 2011

Government Review and Decision - April 2011

Access Road Upgrades - May 2011

Pit Operations - May 2011

12.0 Funding

The funding for the project will be provided by H&H Enterprises Ltd.

13.0 Submission

Date

Name: Gerald Woodford

