

Environmental Assessment

Registration Document

Red Cliff Quarry, Red Cliff, NL.

Prepared for.

Exploits Valley Paving Ltd.

File No. 71110264

Permit No. 127830

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## **1.0 NAME OF UNDETKING**

Red Cliff Quarry, Red Cliff, NL. (Government of Newfoundland and Labrador, Dept. of Natural Resources File No. 71110264)

## **2.0 PROPONENT**

### **2.1 Name of Corporate Body**

EXPLOITS VALLEY PAVING LTD.

### **2.2 Address**

5 Toulette Drive

Grand Falls – Windsor, NL

A2B 0A4

### **2.3 Chief Executive Officer**

Mr. David Noel

President

5 Toulette Drive

Grand Falls – Windsor, NL

A2B 0A4

### **2.4 Principle Contact Person**

Mr. David Noel

President

5 Toulette Drive

Grand Falls – Windsor, NL

A2B 0A4

## **3.0 THE UNDERTAKING**

### **3.1 Nature of the Undertaking**

This proposed project involves the development of a 10 hectare gravel, sand and rock pit located adjacent to the existing Exploits Valley Paving pit (gravel, sand and rock) for use as asphalt aggregate projects in central NL.

### **3.2 Purpose/Need for the Undertaking**

The purpose of this project is to remove gravel, sand and rock for future use as asphalt aggregate in asphalt –construction projects.

## **4.0 DESCRIPTION OF THE UNDERTAKING**

### **4.1 Geographic Location**

The proposed project is located approximately 1.4km SE of Leech Pond and 1km North of the community of Red Cliff, NL. The quarry is located on NTS map sheet 02D/13. See Fig. 1

### **4.2 Physical Features**

#### **4.2.1 Project Site Description**

The gravel, sand and rock pit will be the primary feature associated with this pit. There will not be any work camps or associated buildings on this site. This site will be accessed by the road presently used in the adjacent quarry operated by Exploits Valley Paving Ltd.

## **4.2.2 The Present Environment**

The proposed 10 hectare quarry is located in an existing quarry area in central NL. The site is dominated by young Aspen and White Birch trees. Moss and Kalmia are present in low-lying depressions within the boundary of the proposed quarry. A major forest fire in 1986 had eliminated the dominant Balsom Fir and Black Spruce forest normally found in such environments. Previously constructed forest-access roads have now become surface conduits for water within the proposed area. Topsoil and decaying organic matter is negible in this area.

Wildlife often found in these areas include black bears, moose, snowshoe hares , red foxes and coyotes.

Streams within this area are home to brook trout and stickleback fish.

## **4.3 COSTRUCTION**

The construction phase of this site development will primarily consist of :

- Clearing and Grubbing
- Pit development and associated control measures

### **4.3.1 Site Access**

Site access will be via the adjacent quarry pit operated by Exploits Valley Paving Ltd. There will be no new access- road construction needed

### **4.3.2 Clearing and Grubbing**

All timber of size suitable for salvage will be removed and utilized. Grubbed overburden material will be separated and stockpiled for future site remediation.

### **4.3.3 Pit Development**

This proposed pit is basically an extension of a gravel, sand and rock pit presently in use by Exploits Valley Paving. This new pit has an area of approximately 10 hectares. The proponents plan on first opening the North East corner of the pit and work West to eventually open the full pit property. As mentioned, overburden material suitable for later use will be separated and stockpiled until needed for use in pit closing and site remediation.

## **4.4 Potential Sources of Pollution during Construction**

The construction phase of this development will involve overburden clearing via use of heavy equipment. This activity has inherent potential for pollution. Potential sources of pollution include noise, waste, air emissions and hydrocarbon release from heavy equipment.

### **4.4.1 Air/Noise Pollution**

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- Machinery will be properly muffled
- Machinery will comply with all provincial and municipal noise bylaws
- Machinery will have appropriate emission control mechanisms
- Machinery will only travel on approved roads within the pit boundary
- Construction will be done during daylight hours to limit impact upon any nearby wildlife and residents of Red Cliff.
- Water applications will be used, if required, to limit dust .

### **4.4.2 Domestic Wastes**

There exists the potential to create domestic waste during the construction of this pit. The potential impact upon the immediate environment will be kept to a minimum via adhering to the Newfoundland and Labrador Waste Management Regulations.

### **4.4.3 Hydrocarbon Release**

Pit activities could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelihood, and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

- Emergency spill kits will be onsite at all times
- No hazardous or petroleum products will be stored onsite
- Servicing of machinery will be done offsite and at appropriate locations
- All employees will receive spill response training prior to operations

### **4.5 Operation**

This pit operation will utilize standard excavation methods collect the materials needed by Exploits Valley Paving. Operations within the pit will include the excavation and loading of granular materials, crushing and screening of aggregates as well as the transportation of these materials to the adjacent asphalt plant. These materials will be used to supply asphalt during the construction season. Materials such as overburden and over-sized rock will be stockpiled for later use.

Typical equipment found in a gravel, sand and rock quarry include:

- Dump trucks
- Front-end loaders
- Excavators
- Crusher/screening plant

A quarry of this nature will be in operation from May/June until Sept./October.

### **4.6 Potential Sources of Pollution during Operation**

The potential sources of pollution during operating activities are similar to those during the construction phase. They include air, noise, domestic waste and hydrocarbon release.



#### **4.6.1 Air/Noise Pollution**

There exists the potential for an increase in dust creation and noise emission during the pit development. As with the existing pit, both potential pollution events are kept minimal with the proper use of mitigating measures such as:

- Machinery will be properly muffled
- Machinery will comply with all provincial and municipal noise bylaws
- Machinery will have appropriate emission control mechanisms
- Machinery will only travel on approved roads within the pit boundary
- Construction will be done during daylight hours to limit impact upon any nearby wildlife and residents of Red Cliff.
- Water applications will be used, if required, to limit dust.

#### **4.6.2 Domestic Wastes**

There exists the potential to create domestic waste during the construction of this pit. The potential impact upon the immediate environment will be kept to a minimum via adhering to the Newfoundland and Labrador Waste Management Regulations.

Sewage facilities will not be located at this quarry site. The adjacent quarry and asphalt plant currently have approved portable sewage facilities.

#### **4.6.3 Hydrocarbon Release**

Pit operations could possibly result in the accidental spilling of hydrocarbons such as diesel fuel, engine oil, and hydraulic fluid. To reduce the likelihood, and subsequent impact if a spill did occur, the following mitigation measures will be in effect.

- Emergency spill kits will be onsite at all times
- No hazardous or petroleum products will be stored onsite
- Servicing of machinery will be done offsite and at appropriate locations
- All employees will receive spill response training prior to operations

## **4.7 Potential Resource Conflicts during Operation**

The proposed quarry site is adjacent to existing pit areas North of the community of Red Cliff, NL. As such, the proponents will have to maintain satisfactory noise mitigation techniques during operating hours. This quarry will, when opened, be the farthest working pit in this area. Other environmental protection measures will include:

- No storing of fuel on site
- No sewage disposal system on site
- Waste materials will be removed daily
- Erosion prevention will be enabled by only clearing the land as needed/the pit is expanded.
- Spill kits will be present and maintained by staff
- Spill response training will be provided for staff working on site

## **4.8 Occupations**

Site construction and operation will involve the following occupations as classified by the National Occupations Code (NOC) 2011.

### **4.8.1 Construction**

Five heavy equipment operators(NOC 7521) for a period of 5 weeks.

### **4.8.2 Operation**

The operation of the quarry will be carried out by three heavy equipment operations (NOC 7521) for a period of 8 weeks.

## **4.9 Project –Related Documents**

There are no project-related documents associated with this registration.

## **5.0 Approval of the Undertaking**

The following permits will/may be required in order for this project to proceed.

- Quarry Materials Act and Quarry Minerals Regulations: Quarry Permit/Lease . Provincial Government.
- Environmental Protection Act/Assessment Regulations: Permit to Proceed. Provincial Government.

## **6.0 Schedule**

Document submission/registration	March 2014
Government Review/Decision	May 2014
Pit Construction/Operation	June 2014

## **7.0 Funding**

Funding for this project will be provided solely by Exploits Valley Paving Ltd..

## **8.0 Submission**

David Noel

March 9, 2014

President

Exploits Valley Paving Ltd.

Figure 1: Geographic Location



Print Map

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<http://ua.gov.nl.ca/gnl/PrintMap.aspx>

12/16/2013