

Environmental Assessment

Registration Document

Barachois River Bridge Quarry – Farrell's Excavating Ltd.
Quarry Referral 71113400

Submitted to:
Minister of Environment and Climate Change
P.O. Box 8700
St. John's, NL A1B 4J6

Attention: Director of Environmental Assessment

Prepared By:
Farrell's Excavating Ltd.

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Contents

List of Figures	2
1.0 Name of Undertaking.....	3
2.0 Proponent	3
2.1 Name of Corporate Body	3
2.2 Mailing Address.....	3
2.3 Chief Executive Officer	3
2.4 Principal Contact Person	3
3.0 The Undertaking.....	4
3.1 Nature of the Undertaking.....	4
3.2 Purpose of Undertaking	4
4.0 Description of the Undertaking.....	5
4.1 Geographic Location	5
4.2 Physical Features.....	7
4.2.1 Vegetation	7
4.2.2 Wildlife	7
4.3 Construction of Quarry	7
4.4 Operation of Quarry.....	8
4.4.1 Occupations	10
4.4.2 Decommissioning and Rehabilitation.....	11
4.5 Potential Sources of Pollution	11
4.5.1 Noise Pollution	11
4.5.2 Air Pollution.....	12
4.5.3 Fuel.....	12
4.5.4 Visibility	12
4.5.5 Runoff.....	14
4.5.6 Garbage Disposal	15
5.0 Potential Resource Conflicts	15
6.0 Regulations and Approvals.....	16
7.0 Schedule.....	16
8.0 Conclusion.....	17
APPENDIX A – Site Location Details	18

List of Figures

Figure 1: Proposed Location Near Barachois River Bridge, Newfoundland	6
Figure 2: Tentative Site Plan for Project	10
Figure 3: View of the Proposed Site from TCH Level.....	13
Figure 4: View of the Quarry from Above with Adjacent Quarry	13
Figure 5: View of Proposed Quarry from Adjacent Quarry Entrance.....	14
Figure 6: Site Location for New Quarry and Access Road Along TCH.....	19
Figure 7: Proposed Location Overview	19
Figure 8: Site Location on Map of Newfoundland	20

1.0 Name of Undertaking

Barachois River Bridge Quarry

2.0 Proponent

2.1 Name of Corporate Body

Farrell's Excavating Ltd.

2.2 Mailing Address

P.O. Box 909

Mount Pearl, NL

A1N 3C8

2.3 Chief Executive Officer

William Farrell (Director)

2.4 Principal Contact Person

Justin Constantine B.Eng

3.0 The Undertaking

3.1 Nature of the Undertaking

Farrell's Excavating Ltd (FEL) is applying for a quarry located approximately 480m Northeast of the Barachois River, and about 2.8km Northbound along the TCH from Port aux Basques, Newfoundland, weight scales. The desired area measures approximately 3.53 ha, with rough dimensions of 220m by 157m. The undertaking will be developed under quarry permit number 71113400. The quarry would be used to source materials for civil construction projects along the west coast of Newfoundland. If the area proves unsuitable for the needs of FEL, the process of quarry decommissioning and land rehabilitation will progress. Reasons for such would include a lack of material availability and/or a lack of material quality. Please see Figure 2 for the tentative site plan.

3.2 Purpose of Undertaking

A well-established civil construction business, Farrell's Excavating Ltd. completes a range of road rehabilitation projects throughout Newfoundland during peak season. Roadway development, commercial and residential paving, and highway rehabilitation for example. Numerous local initiatives will make use of the materials from the proposed location. Aggregated rock and asphalt mixtures, which have numerous applications, are anticipated materials from the proposed location. If authorized, the required equipment will be transported to the location, which will be equipped with a working scale house to facilitate government job tracking and sales. Since we will be able to use materials from the proposed quarry, means we will not need to haul from other sites, hence lowering our carbon footprint in the development process.

The list of expected equipment to be on-site will vary, as this depends on what civil projects are awarded in the area. As the function of the quarry will be material extraction, a list of equipment to be expected includes:

- Loaders
- Tandem Dump Trucks and Tandem Tandem Dump Trucks
- Tractor Trailers with:
 - Float Trailers for equipment mobilization
 - Live Bottom and/or Belly Dump Trailers for Material Hauling
- Scale House Trailer
- Rock Crusher
- Light-Duty Pick-Up Trucks

Some of the expected materials include sand, gravel, rock, stockpiled materials and armour stone. Some of the quarry operations to occur will include drilling/blasting, ripping, crushing, screening, washing, the use of settling ponds, and pit run removal.

There is a chance that a mobile asphalt plant will be on the proposed land during the peak construction season. The use of this plant is job-specific, meaning that for any jobs obtained by FEL that require the use of asphalt material, the plant will be set up in the proposed quarry, and granular material created and stored in the desired location will be used. If no work requiring the mobile asphalt plant is obtained in the area, the mobile asphalt plant will not be utilized in that location.

4.0 Description of the Undertaking

4.1 Geographic Location

The location of the undertaking is approximately 500m North of Barachois River Bridge, 3.6km Southeast of Cape Ray turn off along the TCH, and 2.8km North of the Port Aux Basques Weight Scales. The respected coordinates are 47.648329 Lat, -59.232917 Lon. There is currently no access road to the proposed location, so an estimated 310m access road would need to be developed. The quarry development will provide an ample supply of raw material to be processed into suitable aggregates for

use in construction and has the potential to supply sufficient material for future projects. The proposed quarry would not fall under any municipal boundaries. In terms of forestry, it's Zone 6, District 14. In terms of Ecoregions, the proposed land falls into the Maritime Barrens region. The proposed location lies in two surficial geology types, till veneer and bog. This ecoregion's climate is impacted by the Atlantic Ocean, which brings long periods of fog. The summers are cool and short, the winters are moderate along the coast, and cooler inland. The average annual temperature is roughly 5.5°C, the summer average of 11.5°C and the winter average of -1°C. The average annual precipitation estimates from 1200 mm to 1600 mm.



Figure 1: Proposed Location Near Barachois River Bridge, Newfoundland

4.2 Physical Features

The proposed location is in a sparsely wooded area, with an elevation ranging from 102 m to 122 m.

Approximately 500 m to the South of the boundary is Barachois River Bridge. There is an ample buffer between the proposed quarry and the river. Between the proposed and the river lie several other active quarries. They include: 71112272 Mike Kelly & Sons, where the proposed access road will run along the Western border; 71112318 and 71110149, both with Marine Contractors Inc.

4.2.1 Vegetation

Balsam fir is the dominant tree species in the maritime barrens ecoregion. Fires lead to fir being replaced with species like black spruce, tamarack and shrubs, along with species of lichen and moss. Sphagnum and Kalmia can grow on both flat and blanket bogs. Lower areas of this ecoregion has a rolling topography, and is composed of sedimentary rocks and granites.

4.2.2 Wildlife

Wildlife in the area you can expect to see include black bear, red fox, caribou, moose, and lynx. Fishing, recreation and tourism are important activities in this region, with Cheeseman park just a few kilometers away.

Several Migratory birds have been known to frequent the area, including Canadian Geese, Wood Duck, Blue-winged teal, Black Duck, Pintail, Eider, Goldeneye, Merganser, Seagulls, Crows, Bald Eagle, Spruce Grouse, Ruffed Grouse, Rock and Willow Ptarmigan. The only known species at this time at risk of endangerment in this area is the Little Brown Bat.

4.3 Construction of Quarry

If the Project is released from Environmental Assessment and conditions of release have been met, all other permits, licences, and approvals will be applied for. Once granted, Farrell's Excavating Ltd. will start transporting equipment to the site in preparation for the construction process.

Before any cutting/mulching or excavation, a Commercial Cutting Permit and Operating Permit will be obtained from the Department of Fisheries, Forestry and Agriculture. All usable timber will be salvaged, and any organic materials will be stockpiled to create berms within the quarry boundaries, which will then be used for the land reclamation process in the future. All extraction activities will be in accordance with the Occupational Health and Safety Act and the Quarry Materials Act. The development and construction of the land for the proposed quarry area will consist of the following, immediately after approval of the quarry permit:

- a) Survey the proposed land.
- b) Clearing of trees and vegetation.
- c) Stripping soil and other loose material into a stockpile for rehabilitation upon closure of the quarry.
- d) Installation and calibration of weight scales.
- e) Installation of aggregate crusher/screeners.
- f) Development of settling ponds and sediment control to reduce contaminating runoff.
- g) Various quarry operations: excavation, crushing and stockpiling of materials.
- h) Transportation of crushed materials to clients and job sites.

The completion of the quarry construction will take several weeks.

4.4 Operation of Quarry

When in operation, sections of the quarry will be grubbed off, and all loose materials will be removed to expose the material underneath. Drilling and blasting may occur after that, depending on the aggregate layout. If blasting is needed, ample notice will be given, and all safety procedures will be put in place prior to blasting. i.e., suitable company used, public notification, brief road closure, etc. The materials will be used for sale to other contractors and for heavy civil projects received in the area. The materials expected to be extracted include:

- Sand
- Gravel
- Rock
- Stockpiled Materials
- Armour Stone

In terms of equipment for extraction, one would expect to see:

- Rock drill
- Excavators
- Loaders
- Dozers
- Crusher

Figure 2 below shows an approximate site plan for the quarry.



Figure 2: Tentative Site Plan for Project

4.4.1 Occupations

For this site to become operational, both during construction and operation, it will require approximately 10 full-time employees in various positions, such as:

- Heavy Equipment Operators (73400)
- Heavy Equipment Mechanics (72401)
- Quarry Supervisor (82020)
- Laborers/Scale House Personnel (75100)

These positions will be hired based on job qualifications, education and related work experience.

4.4.2 Decommissioning and Rehabilitation

At the end of the quarry's life, Farrell's Excavating Ltd. will decommission and rehabilitate the quarry area. Farrell's will ensure that the area will be sloped and graded in an acceptable manner, ensuring there are no areas for water to build up. Farrell's will utilize the stockpiled and bermed grubbed organic material from the quarry to cover all exposed areas. Once the area is covered in organic material/topsoil, the entire area will be covered in hydroseed to help with the regrowth of vegetation. It is anticipated that the process to fully decommission and rehabilitate the area will take approximately 1-2 weeks. Once the excavated quarry area is rehabilitated, a natural berm on the access road will be made from some of the organic material used to cover the quarry to prevent access to the area. Once rehabilitation is complete, Farrell's Excavating Ltd. will conduct a follow-up assessment of the rehabilitated land to ensure no environmental problems arise. Examples of potential problems that could arise include water buildup, pooling, material slides, lack of vegetation growth, etc. The purpose of the follow-ups is to ensure the rehabilitation process is effective. Farrell's Excavating Ltd. does not anticipate having to import materials to complete the rehabilitation of the quarry, as the materials excavated during the quarry construction process will be used for the rehabilitation.

4.5 Potential Sources of Pollution

During the construction and operation of the quarry, various types of construction equipment will be utilized. The list of equipment includes harvesting equipment, excavators, tandem and tandem tandem dump trucks, loaders, bulldozers, and tractor trailers. These pieces of equipment will emit potential noise and air pollution.

4.5.1 Noise Pollution

The development, extraction and processing of raw materials will require the use of heavy equipment and diesel-powered equipment. This should have a noise level very comparable to the existing quarries already surrounding the area. All equipment will be kept in good working order to prevent unnecessary noise, and all workers shall have proper hearing protection while in the area.

4.5.2 Air Pollution

During normal quarry operations, there is a chance that dust will be created, especially on drier summer days. This will be mitigated by filter screens on all crushing equipment. The access road to the quarry will be monitored closely and will be watered frequently to keep dust from equipment travel to a minimum. All equipment used in the quarry will have functioning emission control systems to reduce hydrocarbon air pollution.

4.5.3 Fuel

Diesel fuel will be used to operate the equipment to develop the site and process the raw material. The fuel will be supplied by a petroleum company and will be delivered daily, or as needed, with only trained personnel doing the refuelling. All heavy equipment on site will be in good working order with regular inspections to prevent spills and leaks. All fuel spills will be immediately reported to the Provincial Environmental Emergency Telephone Line and cleaned up. Spill kits will be kept on site.

4.5.4 Visibility

The proposed location lies approximately 90 m East of the TCH. Elevation at this point is 92 m, while the lowest part of the quarry lies at 102 m. A berm or tree screen will be placed on the Eastern boundary to hide the quarry from TCH travellers. A berm or tree screen may be used on the Northern boundary if deemed necessary.



Figure 3: View of the Proposed Site from TCH Level.



Figure 4: View of the Quarry from Above with Adjacent Quarry



Figure 5: View of Proposed Quarry from Adjacent Quarry Entrance

The figures provided shows the visuals of the quarry from different perspectives. A berm or tree screen will be used on the Eastern boundary, which runs parallel to the TCH, and other boundaries if deemed needed. The site will not be visible to the public, and will be restored after decommission.

4.5.5 Runoff

While the quarry is in operation, there is a potential for water runoff. This will be mitigated by the usage of check dams, ditches, and silt fences to reduce the number of fine particles eroding and polluting nearby water sources. These will be in place in areas where excessive runoff is flowing based on features like topography and soil type. Along with any areas suggested by the Department of Environment, Conservation and Climate Change. Where applicable, ditch runoff will be directed into vegetated areas for natural percolation and filtration. This will be a main concern during the clearing process, as the natural material will be disturbed, causing changes in the percolation and flow of runoff. If a large footprint is developed, Farrell's Excavating Ltd. will create a settling pond somewhere in the quarry to help suspend the sediments before releasing the water over the vegetation for natural percolation to occur.

4.5.6 Garbage Disposal

All forms of domestic and commercial waste will be compiled into appropriate storage bins to be collected and disposed of at an appropriate waste management location. Waste includes human waste, garbage like wrappers, boxes, etc, parts for machinery that can be recycled at appropriate facilities, and other maintenance wastes. All waste will be disposed of at the proper facility. For the proposed, Western Regional Waste Management (WRWM) has a site approximately 3.0km away. In terms of human waste, portable toilets will be removed via pump trucks from an established company.

5.0 Potential Resource Conflicts

Potential resource conflicts during the operation of the quarry could include wildlife. Although wildlife encounters in the area are expected to be slim, FEL will follow the regulations in the Wildlife Act. Furthermore, any and all encounters with migratory birds will follow the Migratory Bird Conservation Act. This will ensure that all measures are taken to avoid accidental disturbances of the migratory birds and their breeding grounds.

Pedestrian conflict is not expected to cause any significant disturbances as there currently are no areas which are accessible to the public for hiking and ATV riding through the proposed location. This area has been used as an industrial area for the last number of years, and there are no trail networks/paths that are going to be impacted by this development.

The size of the development area being cleared will not cause any issues in terms of forestry, as most of the land is bare, with just a few small trees and shrubs. Very minimal disturbance is expected. FEL will also have signage installed informing people about private property and that quarry operations are occurring in that area.

6.0 Regulations and Approvals

This quarry development will be in coherence with the Department of Energy and Mines rules and regulations and the Environmental Protection Act 2002. Farrell's Excavating Ltd. will also follow all regulations set out by the Quarry Materials Act and obtain the proper land use permit. A commercial cutting permit, an operating permit and an access permit will all be acquired from their respective departments before development begins.

Approval Required	Issuing Authority
Quarry Permit	Mineral Lands Division, Department of Energy and Mines
Operating Permit, Development Permit	Department of Fisheries, Forestry and Agriculture
Commercial Cutting Permit	Department of Fisheries, Forestry and Agriculture
Access Approval	Department of Transportation and Infrastructure
Protected Road Zoning Permit	Department of Government Services Centre

7.0 Schedule

This project will commence as soon as approval for the Quarry Permit and all other permits are received, with an expected timeframe for full operation in the Spring/Summer of 2026. This quarry will be in operation annually, creating suitable aggregate until it is depleted of all usable resources.

Submission of Application – January 2026

Approval of Quarry – March 2026

Construction Begins – April/May 2026

Quarry becomes Operational – Spring/Summer 2025

****Dates are tentative and depend on conditional approvals.****

8.0 Conclusion

Farrell's Excavating Ltd. will make every effort to minimize the environmental impact that the quarry will have on the area while yielding the most usable product and ensuring the sustainability of the quarry area. All risks of contamination and pollution will be monitored closely. In the case of spillage, emergency spill kits will be administered immediately to prevent any further damage from occurring. Any concerns or recommendations from department members will be taken into account as well. This project will be fully funded by Farrell's Excavating Ltd.

APPENDIX A – Site Location Details



Figure 6: Site Location for New Quarry and Access Road Along TCH

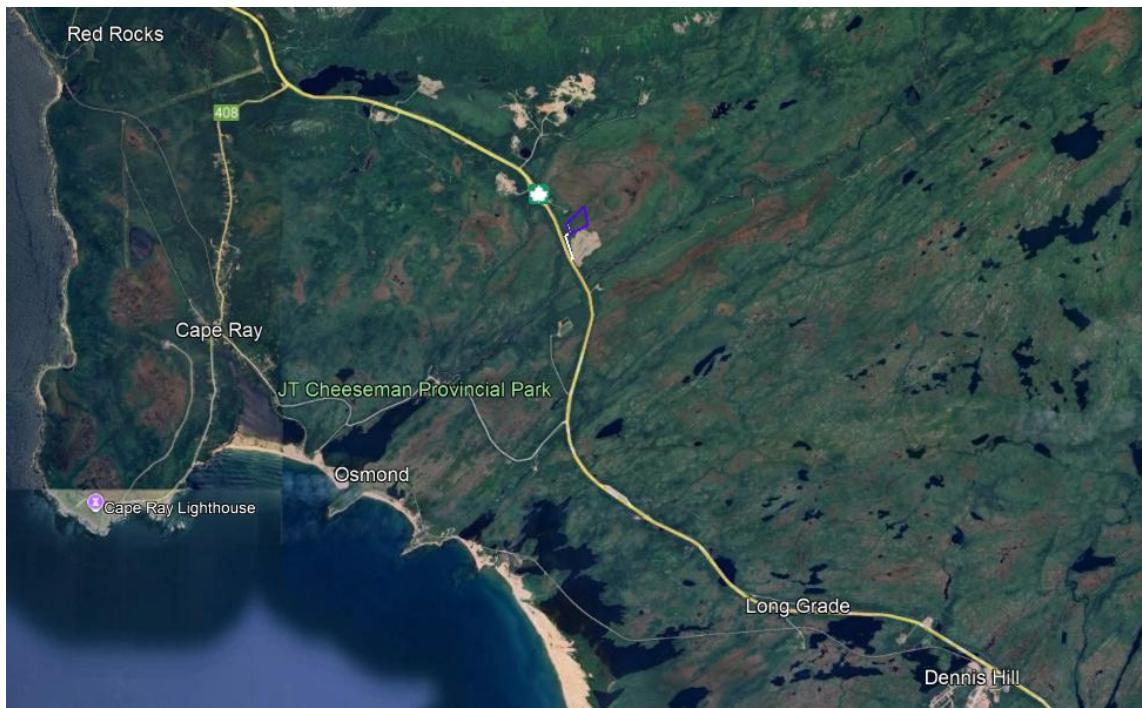


Figure 7: Proposed Location Overview

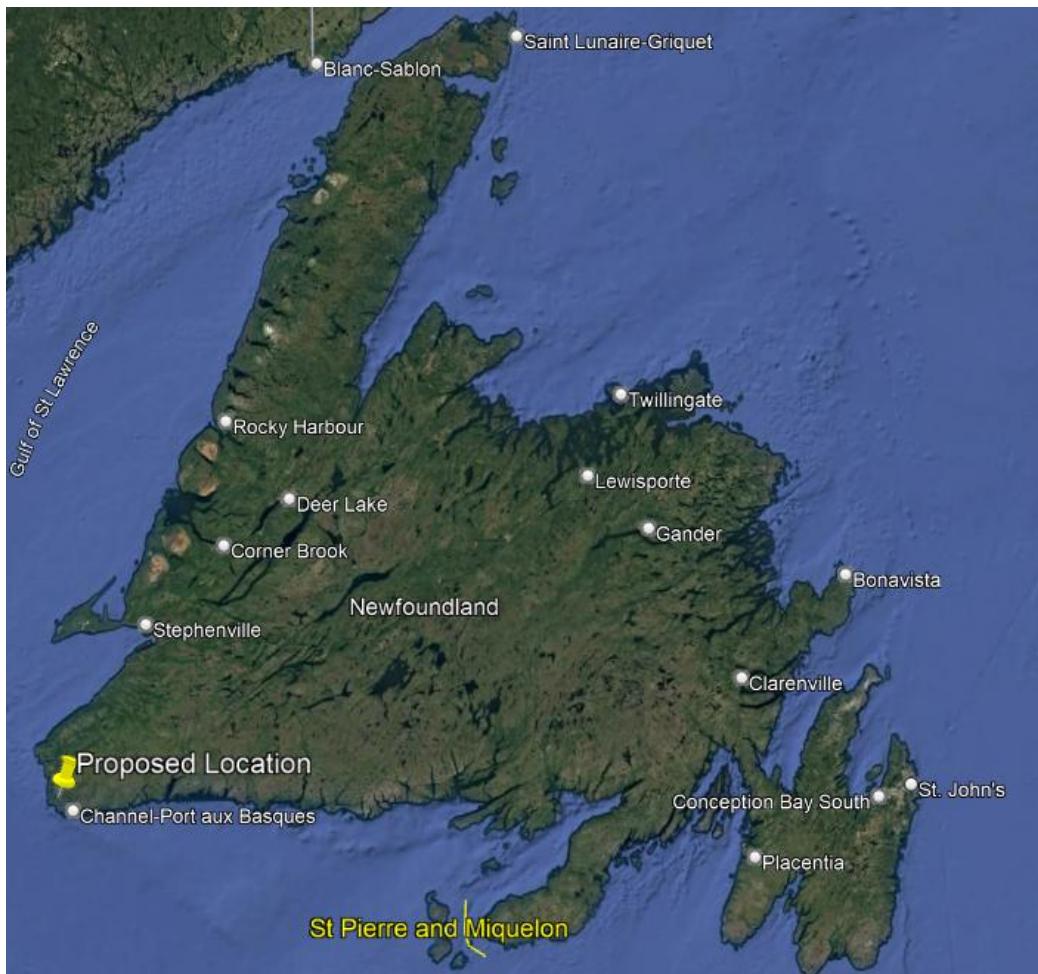


Figure 8: Site Location on Map of Newfoundland