

Report

Application For Approval

**Parker Mountain Aggregates Ltd.
Quarry
Tiverton, Digby County**

Application Number: 2003-032388

File Number: 92100-30

Western Region

Yarmouth

Bob Petrie
District Manager

Robert Balcom
Regional Engineer

J Cook
Inspector Specialist

Date

Robert Balcom

Date

Date

Western Region

Yarmouth

Routing Sheet

APPLICATION NO. 2003-032388

FILE NO. 92100-30

DEPT. OF THE ENVIRONMENT

MAR 24 2003

YARMOUTH DISTRICT
OFFICE
YARMOUTH, N.S.

Received

Assign File No. _____

Engineering Report/Recommendation

RLB

10/03/03

District Manager _____

Final Letter to Applicant _____

CC to Municipal Clerk _____

**Parker Mountain Aggregates Ltd.
Quarry
Tiverton, Digby County**

Engineering Report

File No: 92100-30
Application No: 2003-032388
Project: Parker Mountain Aggregates Ltd.
Quarry
Tiverton, Digby County

Introduction: To evaluate the potential environmental effects associated with the operation by Parker Mountain Aggregates Ltd. of a quarry at Tiverton, Digby County. The proposed Quarry is located on map series 21B8, grid reference E536295158 N491879637, PID # 30176476.

Discussion: The Approval Holder, Parker Mountain Aggregates Ltd., intends to utilize the area to supply armour rock for wharf reconstruction and emergency repair to the East Ferry wharf. The disturbed area will be approximately 4 acres.
There will be no permanent structures on site but there will be the normal stockpiling of blasted rock material.

This Facility will be operated on lands leased by the Approval Holder. A copy of the lease has been submitted and is included in the file.

The proposed quarry area is less than four hectares and therefore is not subject to registration under the Environmental Assessment Regulations. A term and condition has been included in the Approval requiring registration if the area exceeds the four hectare limit.

The quarry does not meet the minimum separation distance of 800 metres from a structure. A number of releases have been signed by local residence of Tiverton. Most of the homes in the community lie within the 800 meter buffer zone. There are no watercourses in the immediate vicinity of the quarry. The nearest surface water is the ocean at a distance of 160 meters. The remainder of the proposed area of operation covered by this approval will

meet/exceed the 15 metre separation distance from other adjoining properties.

The proposed area of operation covered by this approval will not meet all of the separation distances as specified in the pit and quarry guidelines. The applicant has supplied sufficient mapping and property identification for all structures within the 800 meter zone. I checked the releases and could identify the location of the signed releases.

Environmental Impact:

The main environmental impacts associated with the proposed operation are noise, dust, surface runoff, blasting, and rehabilitation.

Air Emissions (Dust) & Noise:

Environmental impact from noise and dust are expected to be minimal. Noise and dust will be further restricted to the limits set forth in the Department of Environment and Labour pit and quarry guidelines and shall be monitored at the Department's request.

Surface Runoff:

Environmental impact from surface runoff will be controlled via quarry grading and siltation ponds so that surface runoff is retained prior to discharge. There is no watercourse in the immediate vicinity of the quarry.

Surface water runoff from the quarry operation will be restricted to the limits in the Department of Environment and Labour pit and quarry guidelines. Surface runoff will be monitored by the Approval Holder regularly with periodic reports being submitted to the Department.

Blasting:

The site of the proposed quarry does not meet the departments guideline for separation from the nearest residence of 800 metres. Blasting operations will be restricted to the limits in the Department of Environment and Labour pit and quarry guidelines. Each Blast will be monitored by the blaster.


Blasting in this closely packed community can be carried out safely.

The blasting effect on marine mammals should not be a problem since the blasts must not endanger structures within the 800 meter buffer zone.

Rehabilitation: The Approval Holder plans to restore all disturbed areas via grading and vegetation once extraction is completed.

Recommendation: The proposed Quarry does not meet all of the conditions of the pit and quarry guidelines.

It is recommended that Parker Mountain Aggregates Ltd. application for the operation of a Quarry at Tiverton, Digby County, be approved subject to the attached terms and conditions.



Robert Balcom B. Eng., P. Eng.
Regional Engineer

