

1.0 Name of Undertaking:

CRANBERRY CREEK

2.0 Proponent:

- (i) Mr. Robert McFatridge
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Stephenville, NL
A2N 1E7
- (iii) Mr. Robert McFatridge
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- (iv) Mr. Robert McFatridge
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3.0 The Undertaking:

Robert McFatridge is presently seeking an agriculture License to Occupy from the Lands Division, Department of Environment and Conservation to develop and operate a Cranberry Farm in the St. Georges area.

4.0 Description of the Undertaking:

- (i) **Geographical Location:**
Located immediately 2.2 km. east of the intersection of route 490 overpass and TCH . Access to this site will utilize an existing road off the TCH with an additional construction of 250 meters required as an extension to this route. Please see attached location map which describes the 40 ha cranberry development site. The cranberry field beds will comprise 25 ha of this total while the remaining 15 ha will include related infrastructure such as water storage and sediment ponds, berms, sand source (on site availability & location to be determined), and access roads.

(ii) Physical Features:

The site is comprised of approximately 82 % peat bog and 18 % mineral soil. The property is bounded on all sides by Crown Land with the TCH running near parallel to the southern boundary separated by a transmission line and a 200 m tree screen. The site has a Southwestern aspect with a very gentle slope which will be utilized in bed development to enable gravity flow of water. One (1) storage shed is proposed.

(iii) Construction:

Subject to design engineering and consultation, the construction is to be carried out over a 7 year period with a total of 25 hectares of cranberry fields in production at the expiration of this term.

Construction will consist of:

- Brush cutting on the proposed site where necessary;
- Preliminary ditching in the proposed berm locations and discharge areas;
- Cranberry bed development, consisting of removing a layer of peat to level the bed, with the spoil to be used for the berm construction;
- Ditching between the beds and berms;
- Construction of Sediment Pond;
- Construction of shed 4m x 4m;
- Installation of water control structures;
- Installation of drainage tile in the beds;
- Placement and leveling of approximately 20 cm of sand for the establishment of the cranberry beds.

The potential sources of pollutants during the construction period are associated with machinery diesel fuel and lubricants. Machinery such as farm tractors, excavators, and dump trucks will be refueled and lubricated on mineral soil, off the construction site. Refuse and human waste will be disposed of and addressed using procedures specified by the Dept. of Environment and Conservation.

Year 1 – This project will commence as soon as land, finances and machinery are secured, beginning with the development of sediment pond, berms, ditches, road, shed and 3 hectares of cranberry fields.

Year 2 – Develop 3 hectares of cranberry fields.

Year 3 - Develop 4 hectares of cranberry fields.

Year 4 - Develop 4 hectares of cranberry fields.

Year 5 – Develop 4 hectares of cranberry fields.

Year 6 – Develop 4 hectares of cranberry fields.

Year 7 – Develop 3 hectares of cranberry fields.

(iv)

Operations:

Long term management of a productive cranberry farm with a goal of being a model steward to the environment. No resource conflicts are expected throughout the life of this development.

On site water supply and usage will follow the terms and conditions as specified in the Water Use License obtained from the Water Resources Division of the Department of Environment and Conservation. The water source for this operation will be holding ponds located as per the attached plot plan and constructed using a combination of drainage and rain water as its source. These reservoirs will serve a dual function as both a permanent water source and as sediment (settling) ponds. The water is to be held for the purpose of irrigation, harvesting, and winter flooding. Harvesting normally consists of flooding each field with approximately 45cm of water, independently at different times, to reduce large volumes of discharge. A cranberry beater will dislodge the cranberries from the vines underwater which will in turn float to the surface, then gathered by a boom and loaded into plastic containers or large bags via a conveyor system.

Flood water discharge will be diverted from one field into another field for harvesting then through maintained ditches and routed to a sediment pond. Potential contaminants will be captured by the sediment pond. Only winter snow melt (extra) water would be released or discharged into the natural drainage area over a large bog. As on site water requirements dictate, this clean water may be diverted away from the holding ponds or it may be directed back into the holding area to resupply the system.

Agricultural operational procedures will be consistent with appropriate environmental standards for sustainable agriculture.

Potential contaminants during the operational period will include:

Common chemicals used for cranberry operations within the province of Newfoundland and Labrador include the following registered products:

Herbicides; Devrinol, Callisto, Roundup

Insecticides; Sevin, Diazinon

Fungicides; Bravo

Fertilizers; 17-17-17/50lbs/acre, 46-0-0/10lbs/acre

Other potential sources of pollutants during operations include the same as the construction period associated with machinery fuel and lubricants.

Machinery such as farm tractors and flat bed trucks will be refueled and

lubricated on mineral soil, off the construction site. Refuse and human waste will be disposed and addressed using procedures specified by the Dept. of Environment and Conservation.

- (v) Occupations:
1. General Manager
 2. Design Engineer (Contractor)
 3. Laborers (Part time)
 4. Equipment operator
 5. Mechanic (Contractor)

- (vi) Project Related Documents:

Crown Land Application No. : 137219 in progress

5.0 Approval of the Undertaking:

Following is a list of main permits, licenses and approvals required for this project.

<u>Approval/Certification/License/Permit</u>	<u>Authority</u>
Environmental Registration	Department of Environment and Conservation
Environmental Assessment Approval	Department of Environment and Conservation
Crown Land	Department of Environment and Conservation
Fuel Storage & Handling.	Department of Government Services
Pesticides (applicator/Operator)	Department of Environment and Conservation
Water Use License	Department of Environment and Conservation
Permit to Alter a Body of Water	Department of Environment and Conservation
Workers Health and Safety Compensation	Workplace Health Safety and Compensation Commission
Quarry Permit	Department of Natural Resources
Access Permit	Department of Works, Services and Transportation

6.0 SCHEDULE

The earliest construction start date is August 1, 2011 latest being September 1, 2011. Construction will then be conducted over a 7 year term.

7.0 Funding:

Application for funding at this time through Department of Natural Resources and other sources if deemed eligible. Typical cost of cranberry bed development is approximately \$40,000/acre.

Robert McFatridge

Date

(Owner/Operator)