

**REGISTRATION PURSUANT TO SECTION 49 OF
THE ENVIRONMENTAL PROTECTION ACT**

NAME OF UNDERTAKING: King's Cranberry Farm

PROPONENT:

- (i) **Name of Corporate Body:** King's Cranberry Farm

- (ii) **Address:** 58 Harmsworth Drive
Grand Falls-Windsor, NL
A2A 2Y7

- (iii) **Chief Executive Officer:** Mr. Glenn King
58 Harmsworth Drive
Grand Falls-Windsor, NL
A2A 2Y7
Home # 709-489-2619
Cell # 709-290-0037

- (iv) **Principal Contact:** Mr. Glenn King
58 Harmsworth Drive
Grand Falls-Windsor, NL
A2A 2Y7
Home # 709-489-2619
Cell # 709-290-0037
E-mail: glenntking@hotmail.com

THE UNDERTAKING:

Mr. Glenn King of Grand Falls-Windsor, Newfoundland and Labrador is presently seeking approval to develop a bog for cranberry farming approximately 39 km south on the Bay D'Espoir Highway from the TCH junction.

DESCRIPTION OF THE UNDERTAKING:

(i) Geographical Location:

The proposed bog is 145.9 acres in size. It is located approximately 39 km south on the Bay D'Espoir Highway from the TCH junction. Then it is accessed by 0.9 km of an existing old forest resources access road. Then 1.1 km ATV trail, which will need to be upgraded to an access road. This area will also require the construction of a bridge to cross a 15 metre stream. The new and upgraded road will be 6 metres wide and a class C road.

(ii) Physical Features:

The site is a peat bog that is bounded by Crown Land. The major physical features that border this bog is old burnt cutovers in the south and north directions, and green mature black spruce and balsam fir in the east and a brook in the west. This brook will be the source of water for cranberry production as well as flashetts will be turned into reservoirs on the bog.

(iii) Construction:

Work will be carried out over two or three year period to develop approximately 45 acres of cranberry field beds. These beds will be developed at a rate of 15 acres per year. Beds will be developed at a width of 40 metres wide and the lengths will depend on topography and what length the bog will allow. Power will be supplied through generators. Sand will be supplied from the surrounding forest access roads and pits in the area. Construction will begin as soon as all approvals, certifications, licenses and permits are granted.

Construction will consist of:

- Preliminary ditching in the proposed berm locations and discharge areas
- Cranberry bed development, consisting of removing a layer of peat to level the bed
- Ditching between the bed and berm
- Construction of irrigation and sediment ponds

- Construction of a 40' x 40' wooden garage/office
- Installation of water control structures
- Installation of drainage tile in the beds
- Development of a farm service road on top of the berms which will be approximately 6m wide and considered part of berm construction
- Placement and leveling of approximately 20cm of sand on new cranberry beds
- Construction will take place during the summer months of 2010

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 fueled and lubed on mineral soil roads and away from any major water bodies or watersheds and of site away from the cranberry farm.

(iii) Operations:

Will consist of a long-term environmentally and economically viable cranberry farm with the environment and being a model environmental steward as the main factors in all the farm plans.

Harvesting normally consists of flooding each field with approximately 45cm of water, at different times, to reduce large volumes of discharge. A cranberry beater will dislodge the cranberries from the vines underwater which in turn float to the surface, then gathered by a boom and loaded into plastic containers via a conveyor system.

Water will enter at the highest part of the bog and water will be taken from the brook at a rate of approximately 2 inches of water over 20 weeks covering the entire cranberry bed area. Water will be discharged through sediment traps and then that bed will be harvested. Then water will be moved to the next bed. Water will travel from bed to bed going through more sediment traps finally settling in constructed sediment ponds and gathering in reservoirs.

Mitigation measures such as maintaining vegetation in ditches will control erosion and will also help in dust control. Vegetation will be incorporated into the design and construction of the drainage ditches to ensure erosion and sedimentation are minimized.

There is trout in the brook that water is intended to be drawn from. Measures such as placing screened covers over intakes will prevent trout from getting caught in these intakes.

Operational procedures will be consistent with the appropriate standards for sustainable agriculture, by removal of the required amounts of peat bog to level beds and build berms. This peat bog will then be replaced with the required

amount of sand for cranberry farming, consistent with environmental standards required for sustainable agriculture.

Potential contaminants during the operational period will include, common chemicals used during cranberry operations within Newfoundland and Labrador includes the following registered products:

- Insecticides: Sevin, Diazinon
- Fungicides: Bravo, Furban
- Herbicides: Devrinol, Callisto, Roundup
- Fertilizers: 17-17-17/50lbs per acre, 46-0-0/ 10lbs per acre

There is no road conflicts in this area with the existing road because there is no forestry, mining etc. taking place in the area of this cranberry farm.

Other potential sources of pollutants during operations include the same as the construction period associated with the machinery fuel and lubricants. Machinery such as farm tractors and dump trucks will be refueled and lubricated on mineral soil, off the operation site. There will be no fuel stored on site during operations of the farm because refueling of equipment will be contracted out to one of the major refueling companies. All appropriate measures will be taken to prevent fuel spillage on site and spill kits will be on site at all times. Human waste will be disposed by a septic system, which will be constructed for the office/garage. This system will be installed using procedures specified by the Department of Environment and Conservation.

(iv) Occupations & National Occupation Codes

1. General Manager (Full Time/Permanent) 0014
2. Design Engineer (Contractor) 2253
3. Grower (Full Time/Seasonal) 8251
4. Pesticide Applicator (Full Time/Seasonal) 8251
5. Laborers (Part Time/Seasonal) 7217
6. Office Administrator (Full Time/Permanent) 1221
7. Heavy Equipment Operator (Part Time/Seasonal) 7421
8. Electrician (Contractor) 7212
9. Mechanic (Contractor) 7216

(vi) Project Related Documents:

Crown Lands Application # 134568

APPROVAL OF THE UNDERTAKING

The following is a list of permits, licenses and approvals required for this cranberry farm.

<u>Approval/Certification/License/Permit</u>	<u>Authority</u>
Environmental Registration	Dept. of Environment and Conservation
Environmental Assessment Approval	Dept. of Environment and Conservation
Crown Land	Dept. of Environment and Conservation
Fuel Storage and Handling	Dept. of Government Services
Pesticides (Applicator/Operator)	Dept. of Environment and Conservation
Water Use License	Dept. of Environment and Conservation
Permit to Alter a Body of Water	Dept. of Environment and Conservation
Workers Health and Safety Compensation	Workplace Health and Safety and Compensation Commission

SCHEDULE:

Construction date depends on final approval of this application and all applicable licenses permits and certifications.

FUNDING:

No application for funding at this time. Normal cost of cranberry bed development approximately \$30,000 - \$35,000 per acre.

Date:

Glenn King (Owner/Operator)