

THE ENVIRONMENTAL ASSESSMENT FROZEN IN TIME LTD. BLUEBERRY FARM

MARCH 2019
PREPARED FOR MINISTRY OF ENVIRONMENT AND LANDS
BY MAREK KROL

Shearstown/ Butlerville
Crown Land Applications # 154061
402 Hectares

1.0 NAME OF UNDERTAKING:
Frozen in Time Ltd. Blueberry Farm

2.0 PROPONENT:
i. Frozen in Time Ltd. Blueberry Farm

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3.0 THE UNDERTAKING:
i. Blueberry Farm

ii. Purpose is to obtain and develop agriculture lease #154061 with in (BMU) a blueberry management unit for growing, harvesting and producing blueberries.

4.0 DESCRIPTION OF THE UNDERTAKING:

i. Geographical Location:
402 hectares of land located in Shearstown/ Butlerville, Newfoundland and Labrador. Access to the site is made available through A Blueberry Management Road off First Pond Road, Shearstown (see attached Land Use Map)

ii. Physical Features:
There are no major physical features other than the land itself is comprised of blueberry bushes and forested land.
A 1: 15,000 scale location map, a 1:15,000 scale land use map and a 1:50,000 scale map of the site is attached.

iii. Construction:

Blueberry Management Unit's (BMU's) are areas designated under section 57 of the *Lands Act* for the cultivation and/or harvesting of Blueberries. These BMU's were identified in a government effort protect, increase and manage blueberry production. In the 70's the Department of Forestry and Agriculture found numerous areas that exhibited potential. Number 63, the BMU under this assessment, was delineated by cut boundary lines, wooden posts and signage. A blueberry management access road was constructed and maintained. Local Labour crews were hired to enhance the blueberry vegetation through removal of trees, stumps, and rocks. Some pruning and controlled burns also took place to increase production of the predominant blueberry vegetation.

28 Ha of this 402 Ha Crown Land lease application was issued to a blueberry farmer in 1991 where further enhancement and possible herbicides were used. This lease was cancelled in 2012 for non-use.

Our goal is to restore the land to what it was in the 70's without the use of chemicals and to maintain the purity of the wild blueberry plant.

Our work will be carried out over a 4-year period with a total of 402 hectares of berry fields being developed. The Blueberry field will be developed by cutting down unwanted trees, brush, removing rocks and burning the field and old blueberry bushes to upgrade the blueberry stock.

A commercial cutting permit and burning permit will be obtained from the proper Government Agency, The Department of Natural Resources. The construction of a fence surrounding the entire blueberry field.

Year 1: Start as soon as land is secured 50% of the land will be prepared – this involves cutting down all trees, removing rocks, land leveling where needed, then burning the field and old blueberry bushes to upgrade the blueberry stock to its highest yield in approximately 2 years. Land leveling permits the use of mechanical mowers, harvesters and other farm machinery which significantly reduce the production cost.

A mobile trailer will be erected on property in order to hold the berries until transportation to Frozen in Time processing facility. The property will be full fenced during the first year, with reclaimed from the clearing and new wood.

Year 2: Develop the remaining 50% of the land of berry producing fields by cutting down trees, land leveling where needed and burning blueberry bushes.

Year 3: The first 50% of the farm will be in production with fresh blueberries to be picked and transported to processing. This will generate approximately 10 jobs for a period of 4 to 6 weeks.

Year 4: In the 4th year, 100% of the farm will be in production. This will generate work for 10 - 15 jobs for the purpose of picking berries for processing.

Blueberries will be picked mechanically and or by hand depending on the bedrock and slope of the land.

We will transport the blueberries to our Frozen in Time processing plant in Whitbourne. During the harvest season the blueberries will be trucked once daily from first pond road. If we are able to use a blueberry harvester this will be stored in the mobile trailer during harvest season.

iv. Operation:

Long term management of the blueberry farm will be done recognizing that as farmers we must be model stewards to the environment.

Honey bee`s are a very important factor in the farming process because they are used to pollenate the blueberries. The honey bee`s are going to be rented and placed around the property in beehives which are going to be supplied by the honey bee farmer. Once the honey bees are finished the pollination cycle they will be collected and removed off the site.

We chose Newfoundland Blueberries because we ran tests on these blueberries as well as multiple others with the University of Ottawa. The results were incredible, the Newfoundland blueberry has the high antioxidant value worldwide. We also do not have to use any chemicals on the blueberries because there are no maggots or insects that must be eliminated for the growth of the berries. Thus, resulting in a healthier blueberry.

v. Occupations:

1. President and Owner

2. Laborers:

i) 12 laborer`s will be needed for 8 month or longer to clear the land weather permitted.

ii) Each summer two part-time laborer`s will be needed for maintenance.

iii) After the land is into full production 10 – 15 pickers will be required.

vi) Project Related Documents:

Crown Land Application NO.: 154061
Site Map, Location Map and Land Use Map

5.0 APPROVAL OF THE UNDERTAKING:

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

Department of Transportation and Works

Service Newfoundland

Forest and Agrifoods Agency

Department of Municipal and Environment

Forestry and Agrifoods Agency Department of

Natural Resources – Mines Department of

Environment and Conservation Provincial

Archaeology Office

Department of Forestry

Land Management Officer (Avalon North)

Water Resources, Management Division

6.0 SCHEDULE:

Construction on this project will begin by May
2019

7.0 FUNDING:

This Project will depend partially on Frozen in Time Capital and government funded programs such as the Canadian Agricultural Partnership program (CAPP) and the Provincial Agrifoods Assistance Program (PAAP).

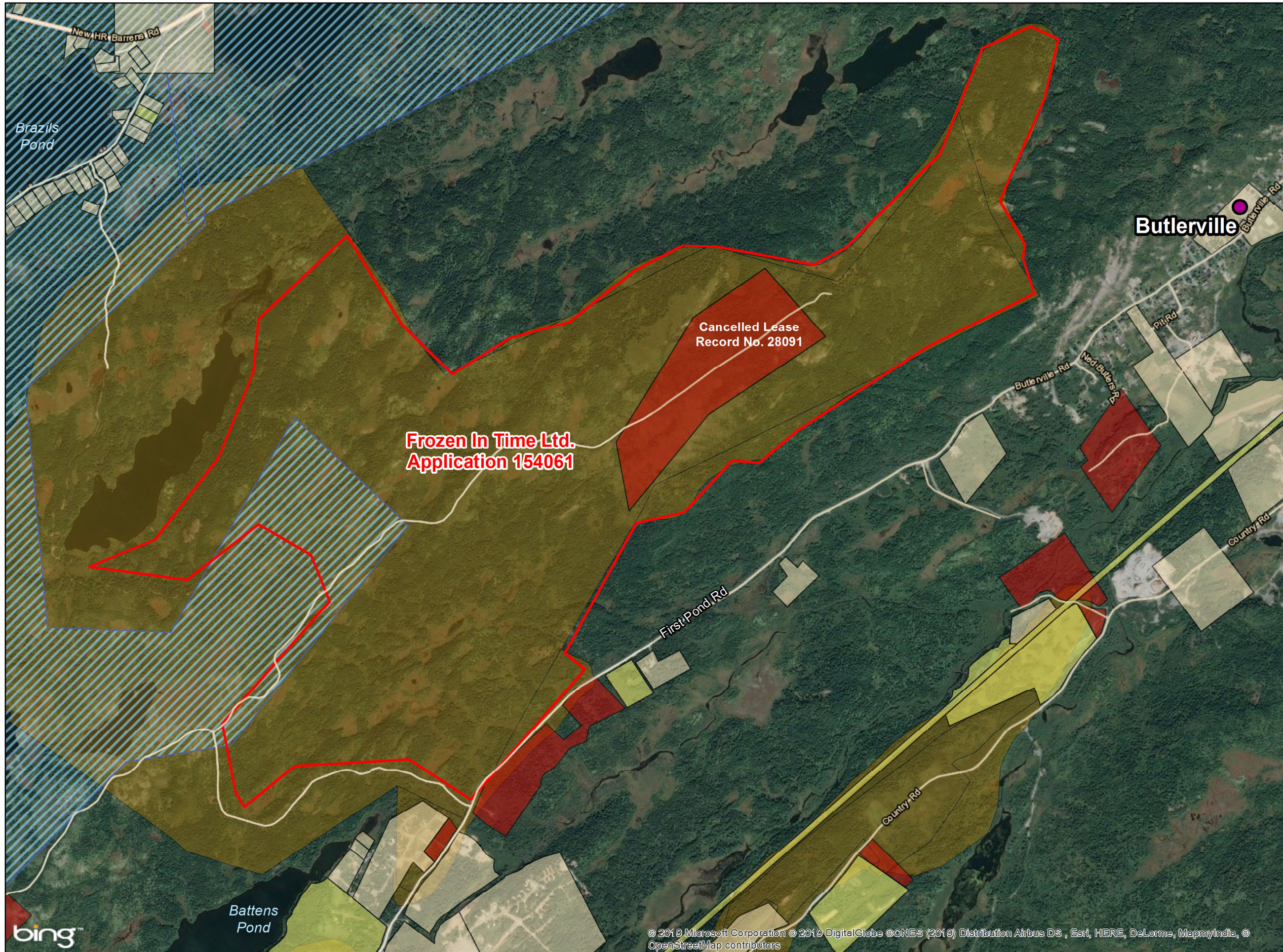
CAPP is a Federal-Provincial funded program. The Provincial Agrifoods Assistance Program (PAAP) is a provincially funded program. Both are specific to the growth opportunities in the Newfoundland and Labrador agriculture, agri-foods and Agri-products sector. They provide financial assistance to eligible applicants involved in primary production or secondary processing activities which will improve the economic viability of the agriculture and agri-foods industry; promote commercialization and growth in the sector; and enhance the competitive capability of the agriculture and agri-foods industry. Funding under these programs will provide for eligible activities including land development and equipment.

Date: March 21/ 2019

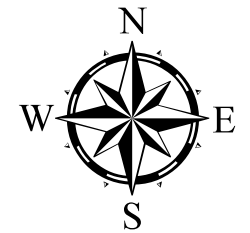
Signature:

Marek Krol

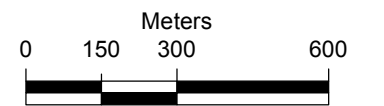
Marek Krol



LAND USE MAP



1:15,000



Legend

- Property Boundary
 - Protected Water Supply
 - Blueberry Management Unit
 - Cancelled Lease
- Crownland Issued Titles**
- Grants
 - Leases
 - Licences
 - Permissions
 - Transfers

Designed for Illustrative Purposes Only

Department of Fisheries and Land Resources
 Agriculture and Lands Branch
 GIS and Mapping Services
 April 2019

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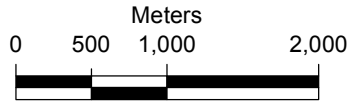




LOCATION MAP



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Legend

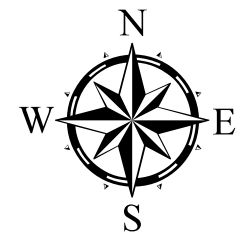
- Community
- Transportation Road
- Property Boundary

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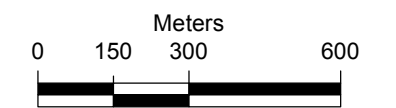
Department of Fisheries and Land Resources
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SITE MAP

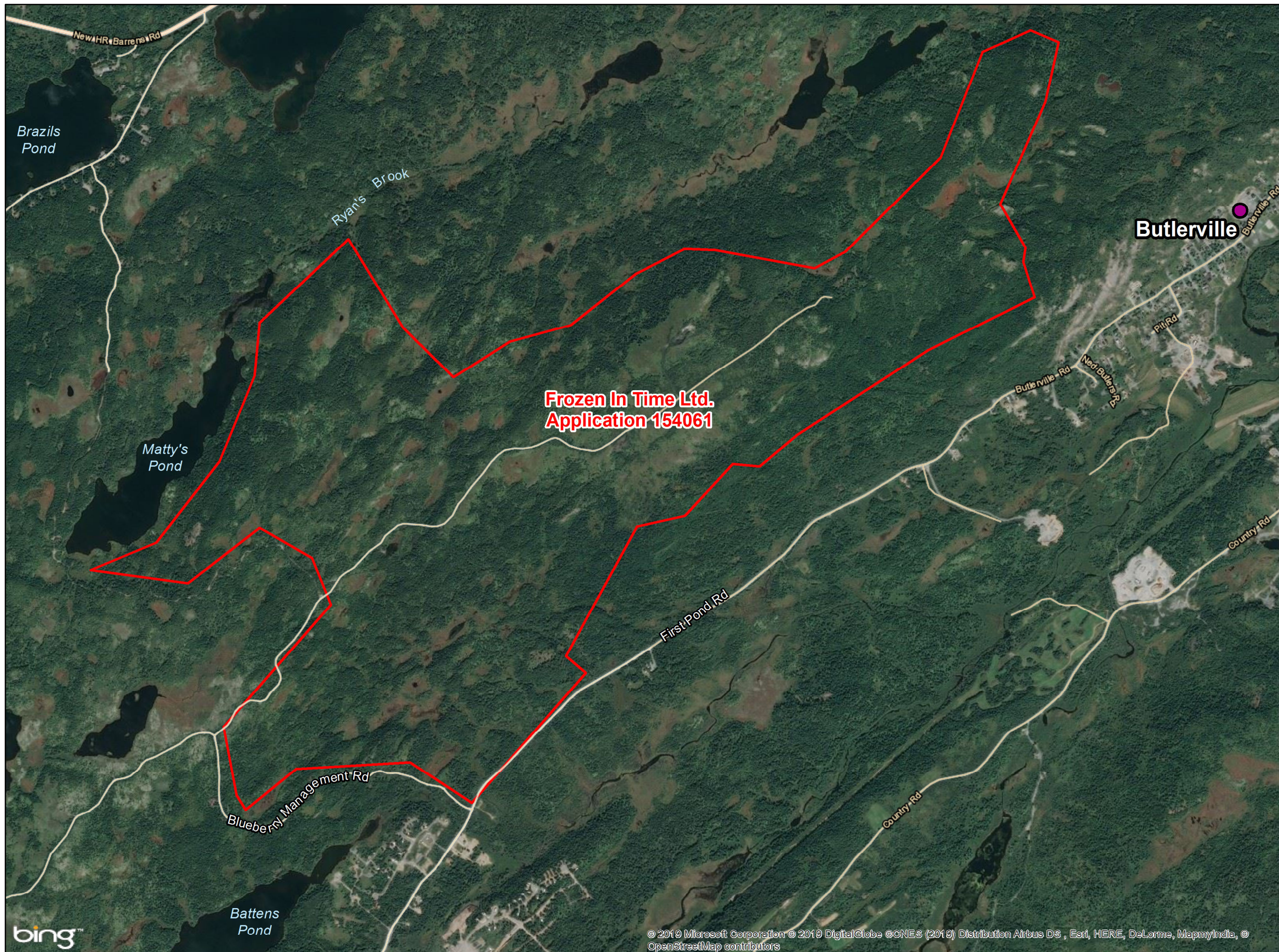


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Legend

 Property Boundary



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April 2019

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Land Management\MISC\Frozen In Time Site Map.mxd