NAME OF UNDERTAKING Kent Fudge Mountain View Farm

Vegetable and Forage Production

PROPONENT

i.	Name of Corporate Body:	Kent Fudge
ii.	Address:	PO Box 221 Grand Falls-Windsor, NL A2A 2J7
iii.	Chief Executive Officer:	Kent Fudge PO Box 221 Grand Falls-Windsor, NL A2A 2J7 709-489-2413 (home) 709-486-3021 (cell)
iv.	Principal Contact:	Kent Fudge PO Box 221 Grand Falls-Windsor, NL A2A 2J7 709-489-2413 (home) 709-486-3021 (cell)

The Undertaking:

Kent Fudge of Wooddale, Newfoundland and Labrador is planning to develop and operate a Vegetable and Forage operation on eighty-eight (88) hectares of peat land now under application from Crown Lands Division of Department of Natural Resources. In the past I owned a 110-acre peat land vegetable farm in Northern Arm that I operated for 10 years. During that time I followed all environmental safety practices and this peat land was located only a couple hundred feet away from a licensed salmon river which was always monitored and there was never any chemical or fertilizer run off into the river or surrounding ground. I acquired the permit to occupy this peatland that I am applying for from Glenfair Farms Ltd in Wooddale and had it transferred to my name. This permit to occupy would allow me to operate a cranberry farm on the peatland which would be a lot more invasive than what I am going to use the land for. I need to get it transferred from a permit to occupy into a lease so that I can produce mixed vegetables like carrot, potato, broccoli, onion, beet, cabbage and rutabaga so I was required to do submit another environmental farm plan and assessment to accomplish this. A peat land bog is better for growing vegetables than any other land in Newfoundland in that there are not any rocks or stones in the soil and as such the vegetables have no blemishes on them and the carrots are perfectly straight because there are no stones or rocks for them to grow around. A peat bog does not have any diseases in the soil like mineral soil does so I will not have to use as many chemicals to control the diseases like you would have to do on mineral soil.

Description of the Undertaking:

(1) Geographical Location

The peat bog under application is located in the Wooddale north area approximately five (5) km north or northeast of Jewer's Brook that drains into Peter's Arm River in the east end of Wooddale. The site is located about eleven (11) km from the New Bay Road. Total bog area is approximately eighty-eight (88) hectares -map is attached.

(2) Physical Features:

The site is totally peat bog. No draining or ditching has been done. It is completely surrounded by Crown Land on the north, south, east and west. A recently installed waterline servicing the towns of Botwood and Peterview from the Northern Arm Lake water supply runs by the south side of this bog. The water for this water line does not come from this bog as there is little to no water running from this peat bog. The water supply for the waterline comes from a pond in the next valley north and is up hill in elevation from this bog and the farm would not have any impact on this water supply. The development of this bog is for mixed vegetables and forage production and will not have any consequences on this water line. The area is considered to be a dome bog sloping north on one side toward Northern Arm River for about a one thousand, two hundred and seventy three (I,273) meter distance and sloping south on the opposite side toward Peter's Arm River for a distance of seven hundred and sixty two (762) meters. The bog is

situated in a general northeast/southwest direction. This bog is at a high point of land and there is no water flowing into it. This is why it is suitable for the production of vegetable in that it is fairly dry and will have no major affect on any of the areas water tables.

(3) Construction:

The site will be designed by the agriculture staff and will be conducted over a period of two to five years. The fields will be done to provide the best drainage for vegetable production without interfering with the surrounding area. The designs of the drainage plan have been completed by Brian Brazil from the Dept of Fisheries and Land Resources. There is one map showing the ditching that is required and another with the elevations that he did to make sure that this would be done correctly. Besides the ditching of the bog the only thing that needs to be done for vegetable and forage production is the top 6 inches of land needs to be rotovated to soften the soil for the vegetables to grow.

Vegetable and Forage production:

--forage fields and vegetable fields to be ditched by Dondi Ditcher and the water drained into sediment ponds;

--rotovator shredder to be used to shred vegetation on peat bog;

--levelling bog to prepare for forage production; limestone to be applied to neutralize acidity to improve forage production;

--fertilizer to be used for the growth of the vegetables

Possible sources of pollution would come from machinery working with both vegetable and forage development. Diesel fuel and lubricants used in the operation of excavators, farm tractors, trucks, etc. Fueling and servicing will not be done on the actual job site but at a specified site off the bog where conditions can be strictly controlled. No fuels or lubricants will be stored on site. These products will be transported to the site from our home base at Wooddale, approximately ten (10) km away. There would appear to be no cause for resource conflicts.

(4) Operations:

Management and production of the vegetables such as carrot, potato, broccoli, rutabaga, cabbage, beet, lettuce, onion will be ongoing yearly. After preparation of the field, seeds and transplants will be grown. The vegetables will be harvested by hand and with tractors with dual tires added for flotation. The vegetables will then be trucked to storages at another location. Planting and field work will start in May and finish in November.

Agriculture operational procedures will meet appropriate environmental standards for sustainable agriculture.

During the operational period potential contaminates will include chemicals used in the vegetable operation within Newfoundland and Labrador. All chemicals sprayed are registered by Environment Canada for vegetable and forage production in Canada for peat land production because the biggest area of vegetable production in Canada is at the Holland marshes in Ontario and could include registered products for vegetables such as:

Herbicides; Lorox, Roundup, Bonanza, Venture

Insecticides; Lorsban, Pounce

Fungicides; Bravo, Fontelis, Allegro, Quadris Top

Fertilizer; 17-17-17 / 800 lbs/acre, 27.5-0-0 / 300 lbs/acre. Fertilizer and lime applications will be determined by soil samples and recommendations from the Soils and Plants Lab in St. John's.

Operational sources of pollution would be pretty much the same as for construction, no fuels or lubricants will be stored on site. Refueling and servicing will be done at a controlled site off bog with supplies transported from home base on a daily basis or on an "as needed" basis.

No buildings will be constructed in the area. Refuse and human waste will be disposed of as per regulations of the Department of Environment and Conservation. The intension is to provide an Porta Pottie enclosure complete with portable facilities that can be disposed of into the Town of Grand Falls-Windsor's sanitary system.

Forage Production: Upon completion of construction of fields for forage production, quantities of fertilizer and limestone will be applied and cultivated in the soil and seeded. Fertilizer and lime applications will be determined by soil samples and recommendations from the Soils and Plants Lab in St. John's. Harvesting is done by farm tractors and mowers equipped with four-wheel drive and extra flotation tires for bog operations. Forage is then baled and transported to home base and put into buildings for sale to livestock farms. Few, if any, pesticides will be used in the production of forage, reducing the risk of pollution. Fuel and lubricants for machinery operation will not be stored on site but will be transported daily or on an "as needed" basis from home base.

(5) Occupations:

Occupation	NOC	Full/Part-time	Length	Number of Personnel
General Manager	8251	Full-time	8 months	1
Grower	8431	Full-time	7 months	1
Pesticide Applicator	8431	Full-time	2 weeks	1
Labourer	8431	Part-time	5 months	6
Excavator operator	7421	Full-time	6 weeks	1

(6) Project Related Documents:

Crown Land Application # 156470

Approval of Undertaking:

The following is a list of main permits, licenses and approvals required for this project:

Approval / Certification / License / Permit	Authority
Environmental Registration	Dept. of Environment & Conservation
Environmental Assessment Approval	Dept. of Environment & Conservation
Crown Land	Dept. of Environment & Conservation
Fuel storage & Handling	Dept. of Government services (received)
Pesticides (applicator/operator)	Dept. of Environment & Conservation (received)
Workers Health & Safety compensation	Workplace NL

Schedule:

The earliest construction start date is July 2021, the latest being September 2021.

Construction will then be conducted over two years.

Funding:

No application for funding at this time. Typical cost of vegetable field development is approximately $6,000 / acre. The cost of forage development is approximately $5,000 / acre.

Mar 7/21

Date

Kent Fudge

Kent Fudge (Owner/operator)

General Manager (NOC Code 8251):

Farmers and farm managers perform some or all of the following duties:

--manage the overall operations of a farm, ranch or orchard;

--determine the amount and kinds of crops to be grown and livestock to be raised;

-- plant, cultivate and harvest crops;

-- raise and breed livestock and poultry;

--hire and supervise farm workers;

--establish a marketing program;

--purchase farm machinery, livestock, seed, feed and other supplies;

--maintain farm machinery, equipment and buildings

--develop and keep financial and production records;

--farmers and farm managers may manage farms specialized in particular crops such as wheat, apples or potatoes or raise particular livestock such as beef cattle, hogs or chickens

Grower (NOC Code 8431 General Farm Workers)

General farm workers perform some or all of the following duties:

--plant, fertilize, cultivate, spray, irrigate and harvest crops;

--feed and tend livestock and poultry;

--operate and maintain fann machinery and equipment;

--detect disease and health problems in crops, livestock and poultry;

--examine produce for quality and prepare for market;

-- set and monitor water lines, air flow and temperature in bans, pens and chicken coops;

--general farm workers can become specialized in a particular type of crop or livestock production through experience.

Pesticide Applicator (NOC Code 8431 Genel.al Farm Workers):

--plant, fertilizer, cultivate, spray, irrigate and harvest crops.

Laborer (NOC Code 8431 General Farm Workers):

General farm workers perform some or all of the following duties:

--plant, fertilize, cultivate, spray, irrigate and harvest crops;

--feed and tend livestock and poultry; milk cows;

-- operate and maintain farm machinery and equipment;

--detect disease and health problems in crops, livestock and poultry;

--examine produce for quality and prepare for market;

-- set and monitor water lines, air flow and temperature in bans, pens and chicken coops;

--clean stables, barns, barnyards and pens;

--general farm workers can become specialized in a particular type of crop or livestock production through experience.

Excavator Operator (NOC Code 7421 Heavy Equipment Operators):

Heavy equipment operators perform some or all of the following duties:

-- operate heavy equipment such as backhoes, bulldozers, loaders and graders to excavate, move, load and grade earth, rock, gravel or other materials during construction and related activities;

--operate bulldozers or other heavy equipment to clear brush and stumps prior to logging activities and {o build roads at logging and surface mining sites;

--operate heavy equipment with pile driver head to drive piling into earth to provide support for buildings, bridges or other structures.


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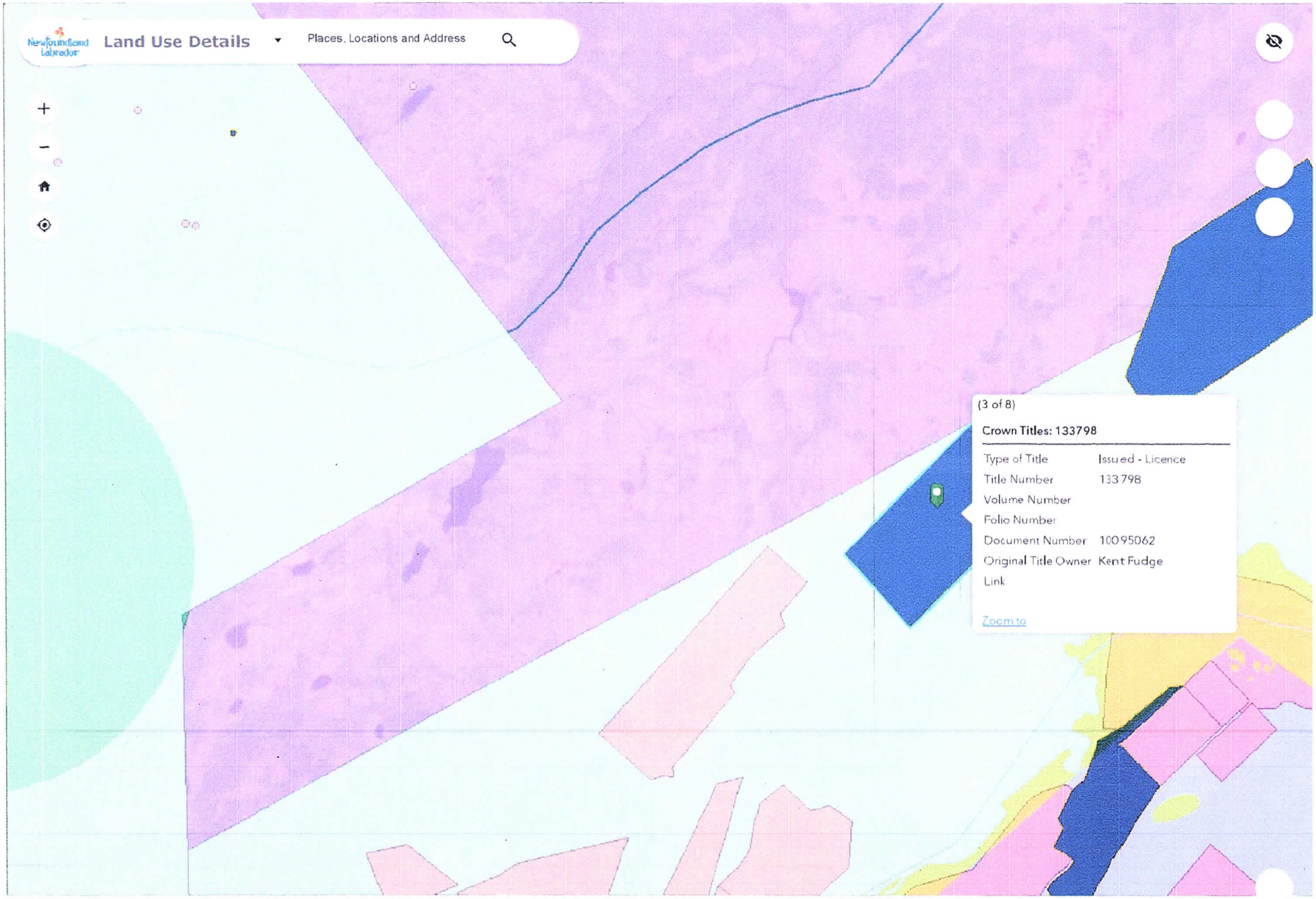
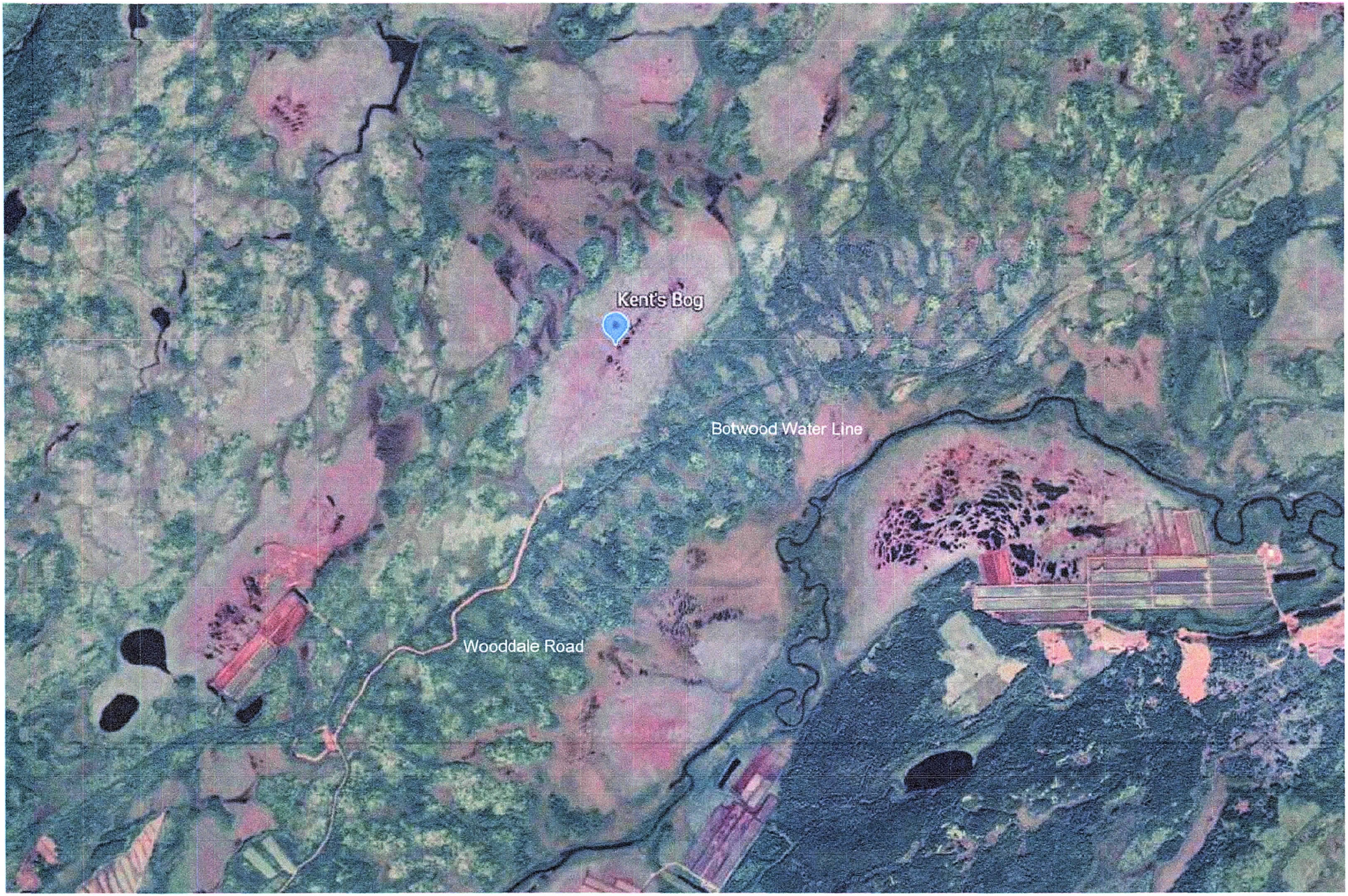
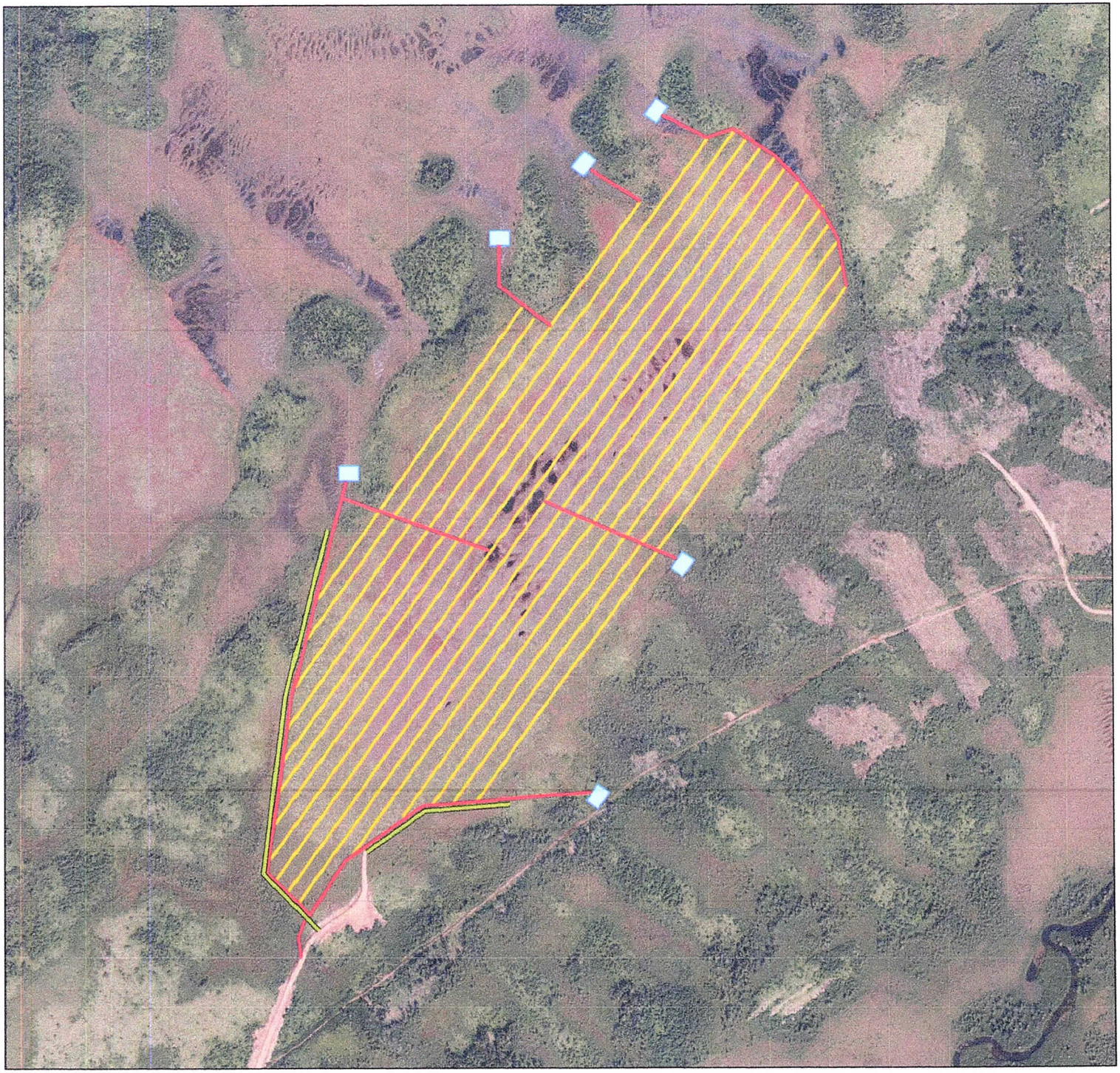
Deer Lake
Corner Brook
Stephenville
Newfoundland
Kents Bog
Gander
Clarenville
St. John's
Conception Bay South
St Pierre and Miquelon
100%
Google Data SIO, NOAA, U.S. Navy, NGA, GEBCO Landsat / Copernicus
Camera: 1,057 km


Land Use Details
Places, Locations and Address
(3 of 8)
Crown Titles: 133798
Type of Title Issued - Licence
Title Number 133798
Volume Number
Folio Number
Document Number 10095062
Original Title Owner Kent Fudge
Link
Zoom to
0 0.3 0.6km


Kent's Bog
Botwood Water Line
Wooddale Road


Kent's Bog



Kent Fudge
License No. 133798
Wooddale, NL

Drainage Plan System

Drawn By: Brian Brazil, Agriculturalist III
Cartography By: M. Dredge, Systems Analyst IM

N
W E
S

1:4,500

Meters

0 87.5 175 350

Legend

- Sediment Pond (5m x 14m x 1m deep)
- Proposed Road
- Perimeter ditch - 1.2m deep
- Lateral ditch - 1m deep, 20m spacing center to center, Taper sides to a 1:1 ratio

Area = 122 acres

N.T.S = Not To Scale

NOTE: Keep road to a minimum of 2 meters from edge of ditch

Designed for Illustrative Purposes Only

Department of Fisheries and Land Resources
Agriculture and Lands Branch
GIS and Mapping Division
September 2019

Newfoundland Labrador

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Kent Fudge
License No. 133798
Wooddale, NL

Drainage Plan System

Drawn By: Brian Brazil, Agriculturalist III
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N
W E
S

1:4,500

Meters

0 87.5 175 350

Legend

- Elevation (cm)
- Contour Interval - 25cm
- Property Boundary

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Department of Fisheries and Land Resources
Agriculture and Lands Branch
GIS and Mapping Division
August 2018

Newfoundland Labrador

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