



Environmental Assessment of the Terra Nova River Trail

Proponent:

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The Undertaking:

(i) Terra Nova River Trail

(ii) The Town of Glovertown is looking at developing a walking trail along the Terra Nova River.

Description of the Undertaking:

In preparation of the environmental assessment and construction phase, Green Leaf Resources was retained to complete a trail assessment for the community of Glovertown. This included the assessment of a new trail from the Trans Canada Highway along the Terra Nova River. A trail link to Ken Diamond Memorial Park was also examined.

This report will look at the potential of the trail, as well as outline trail construction methods that can be applied and will include rough cost estimates to aid in construction planning.

(i) Geographical Location

The Town of Glovertown is looking at developing a walking trail along the river reservation along of the Terra Nova River. It would be a 5km rustic and natural trail from route 310 in Glovertown to the Trans-Canada Highway which will link to the existing Ken Diamond Memorial Park Trail eventually.
(see map attached)

(II) Physical Features

A “hiking” style trail meaning a natural walking surface where feasible but will install some aggregate in poorly drained areas and boardwalks may be installed in wetland areas or in areas that are frequently flooded. The route is typically about 0.5m -1m wide with rustic stream crossings and steps along steep terrain.

The goal is to construct a quality path that doesn’t intrude unnecessarily on the landscape. Structures used should blend nicely with the surrounding land but also be durable. The trail design we are suggesting would accommodate single file hiking with enough width to allow users to pass by each other. Wider trails will require a higher level of intrusion, higher costs and more surface work so for this reason we are suggesting a modest 0.5m -1m hiking path.

(iii) Construction

Our intent for the trail is for it to be as rustic and natural as we can make it.

Stairs, Boardwalks and Lookouts

- a. The plan is to install rugged and durable staircases
- b. Wooden structures such as boardwalks will be used only where necessary. An aggregate surface requires less frequent maintenance, and eliminates potential trip and fall injuries from rotted, loose or damaged decking.
- c. Lookout areas will be left natural. There may be some exceptions to this rule. For example, a wooden lookout near a central area that serves as a focal point for a trail network or as a key space designed to create an enhanced arrival experience would be appropriate.

Bridges

- a. Where possible culverts instead of bridges will be used.

Railings

- a. Any elevated boardwalk or bridge exceeding 3 feet in height or an elevated boardwalk that passes by a hazardous area (e.g., deep water or other hazards) should have a safety rail on both sides. It is important they are sturdy and at least 42 inches in height. Each railing should include a mid-rail about half way up the railing.
- b. Railings can also be installed in areas where there is a steep climb or to protect or block users from a particular hazard.

Trail Surfaces

- a. Depending on the trail, varying surfaces are necessary. When the natural walk surface is pleasant, dry, and water can easily drain off it then it will be preserved. In some cases, however, stone and aggregate are needed to improve the walk surface.
- b. We will use varying sizes of aggregate to raise the walk surface to eliminate a trip hazard or slippery surface, to improve surface drainage, to define the trail route, or to raise the trail surface above the surrounding landscape.
- c. When using aggregate, we will choose stone that matches the surrounding landscape (if possible).
- d. A subsurface of 4" stone will be used for areas where drainage is poor followed by a tamped class 'A' surface. For areas where drainage is good, the 4" subsurface may not be required.
- e. When improving a walk surface, we will grub out all organic material first to create a stable foundation. We will lay down filter fabric (geotextile fabric) before spreading the aggregate. This will reduce the amount of aggregate required.

Drainage

- a. The trail surface should be elevated above the surrounding surface. If not, water will be trapped on the trail.
- b. A combination of drainage features is needed in areas so that water can flow away from the trail. Install ditches will be installed in areas of poor drainage or in areas where runoff should be directed away from the route or through a culvert.

Trail Amenities

- a. Benches, garbage bins, picnic tables and other features will be consistent with what has already been done in the community.

- b. A “pack in / pack out” policy will be adopted to reduce garbage bins and trash along the trail.

Construction Materials and Equipment

- a. Where possible we will use debarked larch logs that are very durable wood and blends nicely with the landscape. Any lumber close to the water or land surface will be left natural to avoid contamination.

(iv) Operation:

A collaboration of the Town of Glovertown Employees, JCP and CEEP workers.
Estimate period of operation 1-2-year plan

(v) Occupations

Estimate number of employees required for construction and operation of the project – 5 workers
Duration of project (Spring to Nov) 2 years. The workforce will consist of 1 Forman, 2 carpenters and 2 labourers.

Work to be carried out by direct hiring and/or contracting out:

- Cutting of brush
- Trail Cutting and Grubbing
- Culverts and bridge installation
- Installing benches, garbage bins and picnic table

(vi) Project Related documents –

Approval for the Undertaking:

Schedule

The earliest start date would be July 21, 2021 and completion September 2022. This coincides with 2 summer work seasons.

Funding

Provincial Government JCP and CEEP Program.

Date:

Douglas Churchill – Mayor Town of Glovertown

Construction:

The work to date has focused on scouting out trail routes.

Work will start in the Spring of 2021 and continue into the fall of 2021 and restart in May/June 2022. We will have the work completed in 2022.

We may begin blazing new trail routes in the late spring of 2021 and the actual construction of trail structures would begin in the late summer.

During the construction phase, we do not anticipate any sedimentation into nearby waterbodies; however, if this becomes an obvious concern, silt traps will be used as a precaution. We do not anticipate any solid waste materials, aside from scrap materials from the construction of wooden elements which will be removed from site.

We do intend to keep the trail as natural as possible, therefore very limited soil disturbance is anticipated. Rock edging, log edging and seed are all options we will consider during construction to reduce/prevent erosion.

The only airborne emissions may be from the operation of chainsaws and generators but this is very minimal in nature. Additionally, we do not anticipate any resource conflicts in this area. There is not much value in the wood resources, and there is no known major conflict with mining or other natural resources.

Operation:

This is a non-intrusive tourism oriented hiking trail. The only ongoing operations will have to do with regular trail maintenance activities. The trail would be open during the tourism season only (May to November).

There will be no waste bins on the trail route except at the trail entrances. We will adopt a pack in pack out policy. Maintenance workers will simply collect the waste from the bins located at the trail parking areas via a pickup truck.

Occupations:

During the construction phase, we anticipate a four person crew will be involved. This crew will work five days a week starting in the spring of 2021 and ending in November of 2022. Work will be paused during the winter months. This

four person crew will be obtained through the direct hiring process and we will hire based on qualifications, regardless of age and gender.

The Town of Glovertown will use their existing staff to help maintain the trail during the tourism season.

Anticipated occupations for this development and operation of this undertaking are as follows:

A) 7204 Carpenters – Construction of the trail.

B) 7611 Construction Labourer – Construction of trail.

APPROVAL OF THE UNDERTAKING:

Permits and licenses are as follows:

Licence to Occupy, Crown Lands

Permit to Clear Land from Department of Forestry

Permit for Undertakings Near a Body of Water from DFO

Permit to Alter a Body of Water from the Provincial Department of Environment (for water crossings)

SCHEDULE:

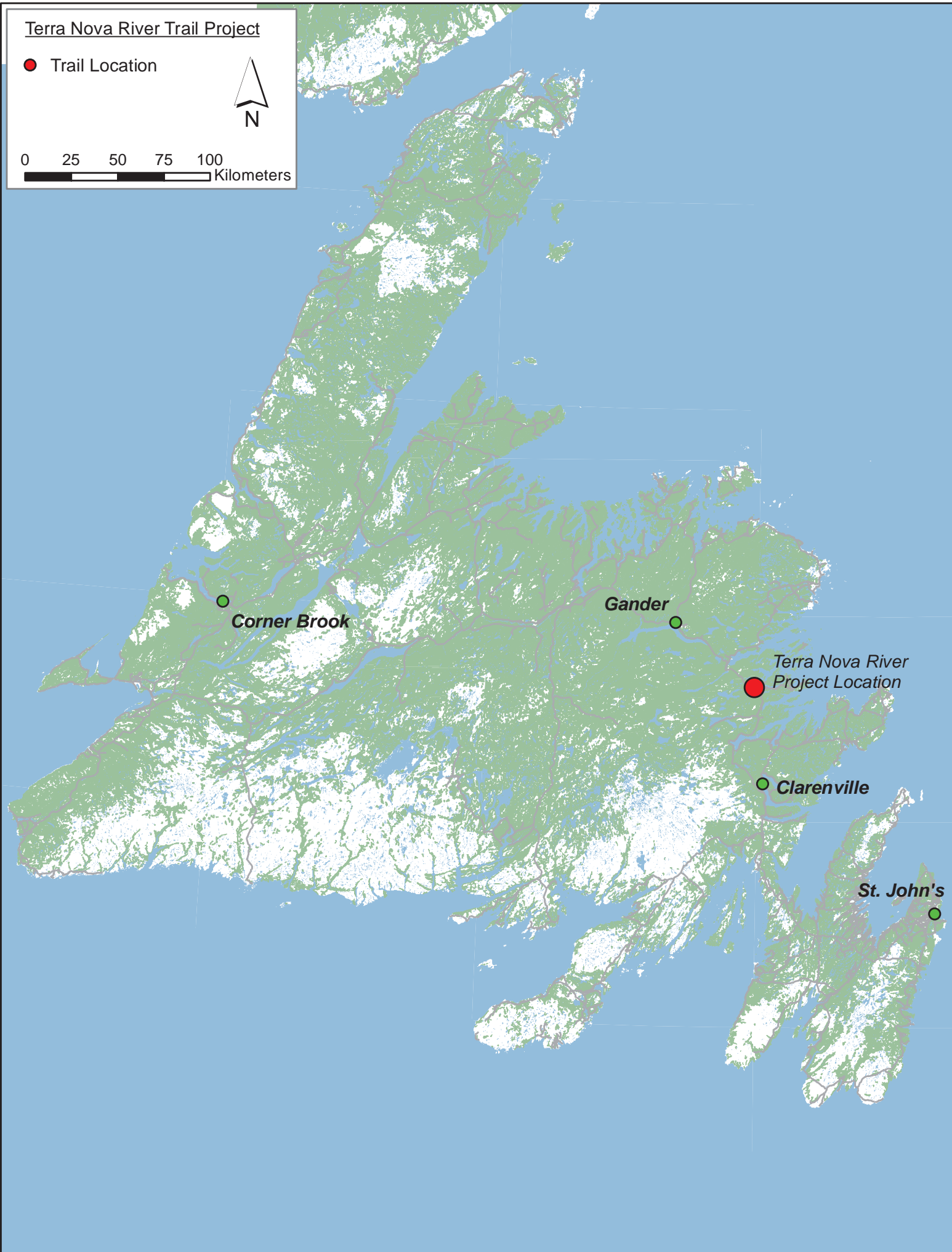
If possible, construction work could commence as early as June 2021. This would allow sufficient time for our Environmental Assessment application to be processed. At the latest we would start in the Fall of 2021.

Terra Nova River Trail Project

● Trail Location



0 25 50 75 100 Kilometers



Corner Brook

Gander

Terra Nova River
Project Location

Clarenville

St. John's

Terra Nova River Trail Project

● Trail Location

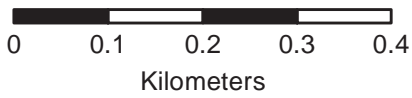


0 1 2 3 4 Kilometers



Legend

- New Terra Nova River Trail
- New - Link to Ken Diamond Memorial
- 0.5 km interval marker



Link to
Ken Diamond

Fish and Wildlife Depot.
Boat Launch. Trail passes
over floodplain area.

Trail located near rivers edge.
To be kept as natural as possible.
No excavation to prevent unnessesary
erosion.

Existing
Boat launch
area

2Km

1 Km

Trail passes throught a wetland
for about 80m. Will install a
boardwalk on sleepers.

Trail located near rivers edge.
To be kept as natural as possible.
No excavation to prevent unnessesary
erosion.

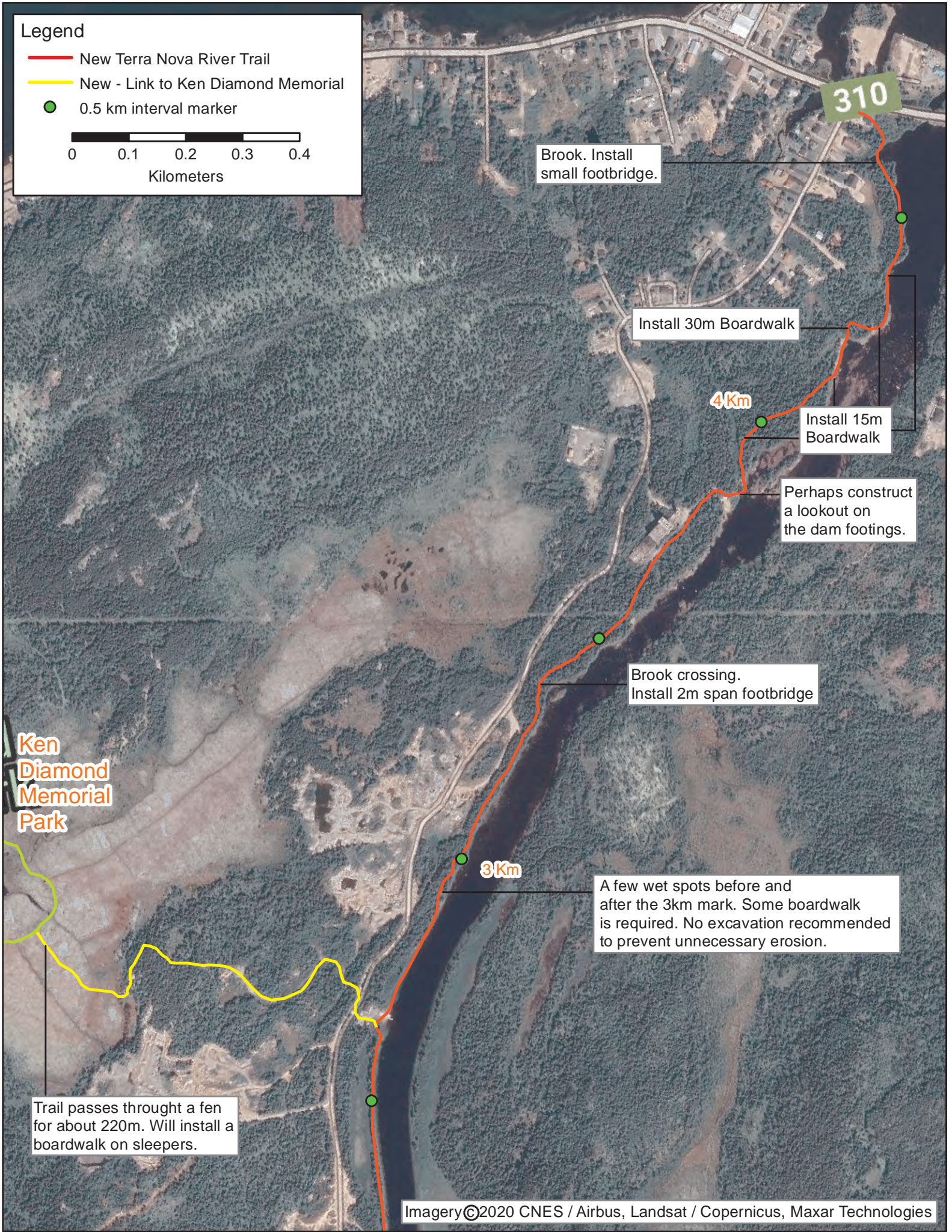
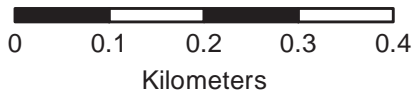
To T.C.H

Trail passes throught a wetland
for about 150m. Will install a
boardwalk on sleepers.



Legend

- New Terra Nova River Trail
- New - Link to Ken Diamond Memorial
- 0.5 km interval marker



Brook. Install small footbridge.

Install 30m Boardwalk

4 Km

Install 15m Boardwalk

Perhaps construct a lookout on the dam footings.

Brook crossing. Install 2m span footbridge

3 Km

A few wet spots before and after the 3km mark. Some boardwalk is required. No excavation recommended to prevent unnecessary erosion.

Trail passes through a fence for about 220m. Will install a boardwalk on sleepers.

Ken Diamond Memorial Park

Legend

- New - The Old Mill Trail
- New - Link to Ken Diamond Memorial
- Existing - Ken Diamond Memorial
- Rest Area or Lookout
- Parking Lot

N

0 0.25 0.5 0.75 1

Kilometers

