

APPENDIX H



Parks Canada Basic Impact Analysis

1. PROJECT TITLE & LOCATION: Newman Sound Campground Electrical Upgrade (Phase 2), Terra Nova National Park – Project # 457E

2. PROPONENT INFORMATION:

Katherine Davey – Manager, FII (709) 772 2172,
Rod Cox – Resource Management Officer (709) 533 3155
Gonzo Wells – Technical Services Officer (709) 533 3150

3. PROPOSED PROJECT DATES

Planned commencement: 2016-09-12
Planned completion: 2016-10-15

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4. INTERNAL PROJECT FILE #: TN-2016-14

5. PROJECT DESCRIPTION:

The purpose of this project is to upgrade ~~41~~ campsites and 5 Otentik sites in Loop B and 5 Otentiks sites in Loop H within Newman Sound Campground with electricity. Newman Sound Campground has long been the principal revenue generation facility within Terra Nova National Park (TNNP). It has been an extremely popular camping facility since its creation in the early 1970's. Being an older campground, TNNP is currently not able to meet all the expectations and demands of this market segment. The addition of electrical sites will allow for higher overall occupancy in electrical sites and allow room for a seasonal camping offer. What once serviced tents and other small camper units now is used extensively by larger RVs (usually with slide-outs that expand their living space) that are often equipped with microwaves, computers, entertainment systems, freezers, dishwashers, the majority of which are up to 35-40 feet in length. These units require larger sites and have a higher demand for power. The electrical hookup for the Otentik sites will allow for the installation of electric heaters and lights. This will enhance the offer for the Otentiks and allow for shoulder season accommodation in cooler weather. As identified in the Management Plan, Terra Nova National Park (TNNP) continues to review its camping offer in an effort to diversify and meet the demands of the camping market.

Construction activities include:

1. Excavation and installation of new electrical lines (mainly within existing roadbeds and campsites)
2. Installation of 3 small electrical buildings (3x4 meters). one in loop H and two in Loop B
3. Installation of post and power outlet box on each campsite. and electrical system for each oTENTIKs.
4. Backfilling and grading of campsites and roadbeds
5. Disposal of project wastes.

6. Refer to attached specification and drawings for additional requirement.

6. VALUED COMPONENTS LIKELY TO BE AFFECTED

Potential interactions between the project and the surrounding environment are identified in the Effects Identification Matrix ([Appendix 1](#)).





7. EFFECTS ANALYSIS

Natural Resources

Air - During construction activity air quality may be reduced due to air borne dust particles. Heavy equipment exhaust may also affect air quality during construction. Significant effects are not likely.

Soil and landforms - Impacts are expected to be minimal aside from the potential for erosion of soils during construction activities. There are also the potential impacts from soil compaction and contamination due to accidental spills and improperly disposed of waste material. Significant effects are not likely.

Water - The closest water body is Big Brook approximately 300 meters from the site. Significant effects to Big Brook and other water resources are not likely.

Flora (including species at risk) - compaction and removal of vegetation (trees and shrubs) around the construction area. The proposed construction areas will be surveyed for Boreal felt lichen (*Erioderma pedicellatum*) and Blue felt lichen (*Degelia plumbea*) before construction commences. A minimal amount of trees will have to be removed for this project as the installation of the new electrical line will mainly be in the existing roadbeds and campsites. Significant effects to flora not likely.

Fauna (including species at risk) - The temporary operation of equipment and increased human presence and noise may lead to a temporary displacement of wildlife. Loops B and H are previously disturbed areas and fragmented with campsites, roads and open common areas. The minimal amount of vegetation that may be removed for the project will not significantly alter the amount of critical habitat for marten on the landscape. Vegetation removal will occur in the fall outside of breeding bird season. Significant effects to fauna not likely.

Cultural Resources

Archaeological resources/landscape features - The Cultural Resource Values Statement for Terra Nova National Park has been reviewed for the project. No known archaeological resources/cultural landscapes exist within the project area and are unlikely to be affected by this project.

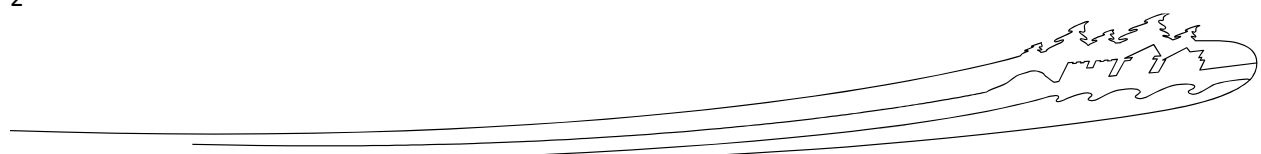
Visitor Experience

Altered views, noise and temporary area closures during construction activities.

The aesthetic and noise impacts and the presence of machinery during construction are expected to be minimal due to the size of equipment, timing and duration of the project.

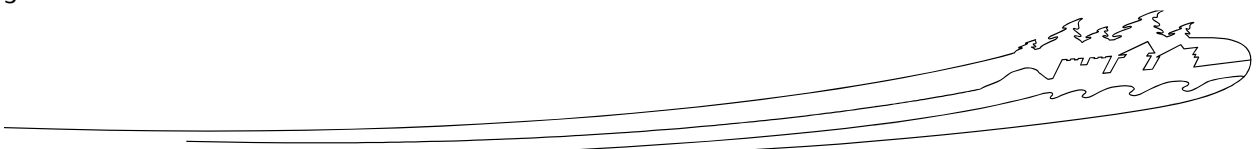
8. MITIGATION MEASURES

1. Vehicular traffic and staging areas will be restricted to present-day roadways and disturbed areas.
2. All construction personnel are responsible for reporting any unusual materials unearthed during construction activities to the on-site supervisor. In those situations where the find is believed to be an archaeological/cultural resource, the construction supervisor and/or contractor will immediately stop work in the vicinity of the find and notify PWGSC/Parks Canada. A Parks Canada archaeologist will be contacted for further direction.
3. The handling and storage of hazardous materials will follow all applicable federal legislation/regulations. All relevant current Material Safety Data Sheets (MSDS) will be readily available for the site.
4. The contractor is responsible to take all necessary precautions to ensure there are no safety concerns related to visitors of the Park.
5. All vehicles and equipment will yield to people, if present, and reduced speeds will be maintained on all roadways.
6. All equipment (e.g., diesel generators, etc.) shall meet the requirements of applicable federal legislation/regulations.





7. Dust from operating activities will be controlled using water. In the event of excessive dust, water will be applied to travel and work surfaces.
8. All vehicles and generators will have exhaust systems regularly inspected and mufflers will be operating properly to meet emission standards.
9. Clearing of vegetation will be kept to a minimum and approved by Parks Canada staff prior to the start of the project.
10. Prior to initiating construction, park staff will complete a survey of all terrestrial habitat to be disturbed during construction to look for residences (dens) of small mammals and nesting sites of birds (including species at risk). If any individuals, residences (dens) and/or nesting sites are encountered during construction the contractor shall contact Parks Canada. This could result in a delay in scheduling of the construction.
11. Breeding bird season in Newfoundland occurs between May 1st and July 15th. Vegetation clearing should be avoided during this period. If a migratory bird nest is identified, an area of 20 m radius will be implemented and left undisturbed until nesting is completed (i.e., at least after the young have fledged).
12. All personnel should be aware of the potential for encounters with wildlife and they will be instructed to immediately report any sightings. No attempt to harass or disturb wildlife will be made by any worker.
13. Machine operators will be briefed on proper food and garbage disposal and other wildlife issues before work begins.
14. Grubbing of the organic vegetation mat and/or the upper soil horizons will be restricted to the minimum area required. It will be spread, in a manner to cover inactive exposed areas or retained for use in rehabilitation efforts.
15. During excavation/grubbing, material will not be pushed into areas that are to be left undisturbed.
16. Only clean fill from an approved source will be accepted for backfill or grading.
17. Any reclamation techniques will emphasize the re-vegetation of the cleared areas of the site with topsoil, local plants, shrub and trees approved by Parks Canada.
18. Laydown and storage areas no longer required for construction and operations activities will be rehabilitated.
19. All solid waste will be handled according to and in compliance with applicable federal/provincial regulations.
20. All solid waste materials shall be considered, prior to disposal, for reuse, resale or recycling, and then disposed at an approved facility.
21. Unused cement shall not be deposited within the park and disposed of in an approved manner.
22. Waste accumulated on site prior to disposal will be confined, so that it does not pose an environmental or health hazard.
23. Work areas will be kept clear of waste and litter to reduce the potential for attracting wildlife and reducing potential interactions with wildlife. Any waste that may attract animals (i.e., food) will be stored in covered, wildlife-proof containers.
24. Cleared vegetation will be removed from the site in a manner approved by Parks Canada. Burning and chipping of vegetation on site is not permitted.
25. Heavy equipment will only be used in designated work areas. Travel in areas outside designated work areas will not be permitted.
26. Surface water shall be directed away from work areas by ditching. Runoff from these areas shall have sediment removed by filtration or other suitable methods and shall be directed away from wetlands and watercourses.
27. Machinery is to arrive on-site in a clean condition and should be free of soils and vegetation and maintained free of fluid leaks. For all contractors, Spill Response Kits (absorbent materials, etc.) must be on-site at all times. In the event of any spill of deleterious substances (e.g., petroleum hydrocarbons, hydraulic fluid), the contractor is responsible for containing and cleaning up the spill; the spill is to be reported and sent to Parks Canada. In the event of a reportable spill on-land or a spill, regardless of size, in the freshwater environment, applicable federal legislation/regulations will be followed.





28. Only minor repairs and maintenance (e.g., lubrication) of 'non-mobile' equipment such as flatbeds, shovel or drilling equipment will be performed on-site. All major repairs, where possible, are to be performed at an existing garage location outside of the project area.
29. All fuel and other hazardous materials will be handled following applicable federal legislation/regulations.
30. Handling and fuelling procedures will comply with the applicable federal legislation/regulations and any additional requirements in order to limit potential contamination of soil or water, and will not occur within 100 m of any water body.
31. The conditions presented in this basic impact analysis (BIA) will be considered part of the project and must be approved by the Field Unit Superintendent prior to the commencement of work.
32. All activities must conform to relevant Occupational Health and Safety Guidelines and to all relevant Municipal, Provincial and Federal regulations.

9. OTHER Considerations

Check all that apply

- ☐ Public/stakeholder engagement
- ☐ Aboriginal engagement or consultation
- ☒ Surveillance

Inspections by park staff to ensure mitigations are being followed.

- ☐ Follow-up monitoring, required to evaluate effectiveness of mitigation measures and/or assess restoration success
- ☐ Follow-up monitoring, required by legislation or policy (indicate basis of requirement e.g. required by the *Species at Risk Act*)
- ☐ SARA Notification

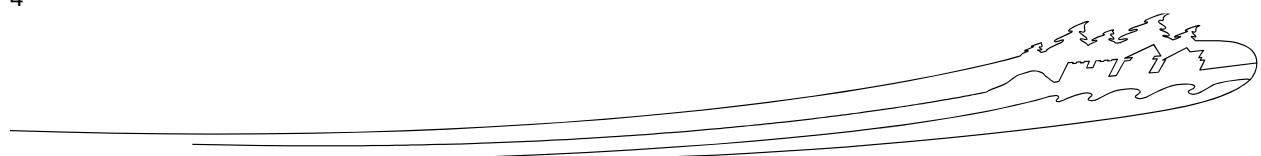
10. SIGNIFICANCE OF RESIDUAL ADVERSE EFFECTS

Residual effects not likely significant

11. EXPERTS CONSULTED

Include Parks Canada experts. Add as many entries as necessary for the project.

Department/Agency/Institution:	Date of Request: YYYY-MM-DD
Expert's Name & Contact Information:	Title:
Expertise Requested:	
Response: Summarize, append correspondence as required and add to attachment list (Section 14).	





12. DECISION

Taking into account implementation of mitigation measures outlined in the analysis, the project is:

- ☒ not likely to cause significant adverse environmental effects.
- ☐ likely to cause significant adverse environmental effects.

NOTE: If the project is identified as likely to cause significant adverse effects, CEAA 2012 prohibits approval of the project unless the Governor in Council (Cabinet) determines that the effects are justified in the circumstances. A finding of significant effects therefore means the project CANNOT go ahead as proposed.

FOR SARA REQUIREMENTS:

- ☒ There are no residual adverse effects to species at risk and therefore the SARA-Compliant Authorization Decision Tool was not required

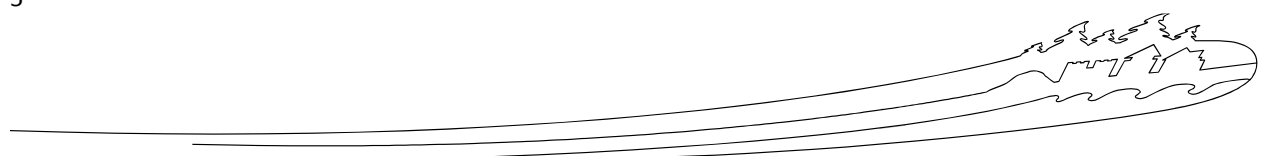
OR, the SARA-Compliant Authorization Decision Tool ([Appendix 2](#)) was used and determined:

- ☐ There is no contravention of SARA prohibitions
- ☐ Project activities contravene a SARA prohibition and CAN be authorized under SARA
- ☐ Project activities contravene a SARA prohibition and CANNOT be authorized




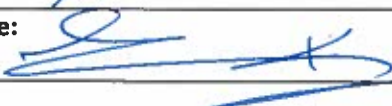
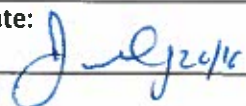
The entire landscape within TNNP has been identified as Marten Critical Habitat. According to the Recovery Plan for the American Marten in Newfoundland (2010), critical habitat must be maintained above defined thresholds. These thresholds are described in the plan in terms of a minimum amount of total forest, mature and overmature forest, and a maximum amount of younger-aged forest. All projects undertaken within the park must be assessed in terms of its impact on critical habitat for marten. Loop B and H are previously disturbed areas and fragmented with campsites, roads and open common areas. The minimal amount of vegetation that may be removed for the project does not significantly alter the amount of critical habitat for marten on the landscape (vegetation clearing may not be necessary as most excavations will be in existing roadbeds and campsites). Areas to be excavated will be inspected for the presence of individual marten or dens prior to construction.

The Atlantic Population of the Boreal felt lichen (*Erioderma pedicullatum*), listed as endangered on Schedule 1 of the SARA and the Blue felt lichen (*Degelia plumbea*), listed as a Species of Special Concern by COSEWIC, are found within park boundaries. Any vegetation identified for removal will be inspected prior to construction.

The little brown bat or little brown myotis (*Myotis lucifugus*), Northern myotis (*Myotis septentrionalis*), Red crossbill (*Loxia curvirostra perna*), Olive sided flycatcher (*Contopus cooperi*) and Rusty blackbird (*Euphagus carolinus*) are present in the park and protected under the federal SARA. Individuals or roosting/nesting sites for these species will be determined during a site inspection before the project commences.



**13. RECOMMENDATION AND APPROVAL***(Add additional blocks as required)*

Prepared by: Rod Cox – Resource Management Officer	Date: 2016-05-05
Recommended by: Katherine Davey – Manager, FI	
Signature: 	Date: July 26 2016
Approval signature:  <i>Acting</i> William Brake – Superintendent, NEFU 	
Signature: 	Date: 

14. ATTACHMENTS**14.1. BMPS**

n/a

14.2. Other

Proposed Electrical Site Plan

15. NATIONAL IMPACT ASSESSMENT TRACKING SYSTEM

- ☐ Project registered in [tracking system](#)
- ☒ Not yet registered (CEAA 2012 requires PCA submit a report to Parliament annually. EIAs must be entered in the tracking system by the end of April to enable reporting.

*****Ensure that all required mitigation measures and conditions (e.g. follow-up monitoring requirements) are included in project permits and authorizations*****

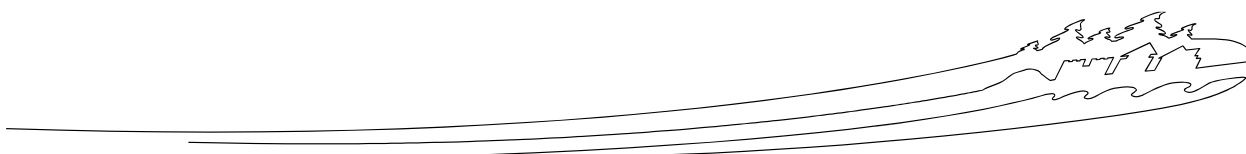




Appendix 1 : Effects Identification Matrix (optional)

Section A focuses on direct effects of the project and **Section B** on indirect effects that are caused by changes to the environment.

A. Direct Effects									
	<i>You may wish to change the components listed under the headings to specify the natural or cultural resources that are priority considerations for your PCA site or for the specific project being reviewed.</i>		Valued components potentially directly affected by the proposed project						
			Natural Resources					Cultural Resources	
			Air	Soil & landforms	Water (surface, ground, crossings, etc.)	Flora (specify, including SAR)	Fauna (specify, including SAR)	Archaeological Resources	Landscape Features
Phase	Examples of Associated Activities								
Project Components	Preparation / Construction / Operation / Decommissioning	Supply and storage of materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Burning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Clearing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Demolition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Disposal of waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Blasting/ Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Dredging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Drainage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Excavation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Backfilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use of machinery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Transport of materials/ equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





B. Indirect Effects (all phases)							
<p><i>You may wish to change the components listed under the headings to specify the natural or resources that are priority considerations for your PCA site or for the specific project being reviewed.</i></p>		Impacts as a result of changes to the environment					
		With respect to non-Aboriginal peoples:	With respect to Aboriginal peoples:		With respect to visitor experience		
		Health and socio-economic conditions	Health & socio-economic conditions	Current use of lands and resources for traditional purposes	Access & services	Recreation & accommod'n opportunities	Safety
Phase	Natural resource components affected by the project						
Preparation /construction operation /implementation/decommissioning	Could impacts to <u>air</u> lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>soils and landforms</u> lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Could impacts to <u>water</u> (e.g. surface, ground water and water crossings) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>flora</u> (including SAR) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Could impacts to <u>fauna</u> (including SAR) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

