

RETURN BIDS TO:
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Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions/Travaux publics et Services
gouvernementaux Canada
The Cambridge Building
3 Queen Street/3, rue Queen
Charlottetown
Prince Edward Island
C1A 4A2

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Public Works and Government Services Canada
The Cambridge Building
3 Queen Street/3 rue, Queen
PO Box 1268/CP 1268
Charlottetown
Prince Ed
C1A 4A2

Title - Sujet Pavement Rehabilitation, PEI(Parks)	
Solicitation No. - N° de l'invitation ED001-160891/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client R.074934.001	Date 2015-08-28
GETS Reference No. - N° de référence de SEAG PW-\$PWC-004-3674	
File No. - N° de dossier PWC-5-38052 (004)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-09-02	Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Doucet, Gisele PWC	Buyer Id - Id de l'acheteur pwc004
Telephone No. - N° de téléphone (506) 636-4541 ()	FAX No. - N° de FAX (506) 636-4376
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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Buyer ID - Id de l'acheteur

pwc004

CCC No./N° CCC - FMS No/ N° VME

This Solicitation Amendment No. Two (2) is raised to include the following addendum no. 2.

The following addendum to the tender documents is effective immediately. This addendum shall form part of the contract documents.

All other terms and conditions remain the same.

Addendum 2.

INVITATION TO TENDER DOCUMENT

REMOVE " Appendix 1 - Combined Price Form" and **REPLACE WITH** the attached "Appendix 1 - Combined Price Form" Revised August 28, 2015".

Please note: The Appendix 1 - Combined Price Form revised August 28, 2015 attached in this amendment is the Combined Price Form that **MUST** be submitted with your bid. Failure to comply with the requirement will result in your bid being deemed non-responsive.

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To the Drawings:

1. Drawings C01 thru C15. Revise project number in title block to "R.074934.001"
2. Drawing C14. Plan. Delete note "Remove wooden wheel stops and concrete posts" and replace with "Remove wooden wheel stops and concrete posts and install precast concrete wheel stops (32 required)"

To the Specifications:

3. Unit Price Table. Revise estimated quantity of Concrete Wheel Stops from "200" to "232".
4. Section 01 10 10. Page 5. Item 1.13.1. Add following:
"Public Works & Government Services Canada
3 Queen Street, P.O. Box 1268
Charlottetown, PEI C1A 7M8

Telephone (902) 566-7500 Facsimile: (902) 566-7531"
5. Section 01 14 10. Page 3. Delete Item 1.3.5.
6. Section 01 29 00. Page 1. Item 1.2.1. After "Sedimentation control" add "quality control materials testing and inspections"
7. Section 01 29 00. Page 2. Delete Item 1.2.4.
8. Section 01 29 00. Page 2. Delete Item 1.2.6.3 and replace with following: "Milling and stockpiling of the asphalt as indicated on the plan or as directed by the Department Representative."
9. Section 01 29 00. Page 2. Add pay item description as follows: "Replace millings:
 - i. Unit of measurement: Metric Tonne (1000 kg).
 - ii. Method of measurement: from accepted truck slips.
 - iii. This item includes: replacing millings from stockpile and blending millings with class a gravel to achieve homogenous blended amended base material and compaction."
10. Section 01 35 44.
 - a. Page 1. Add Item 1.2.8 as follows: ".8 National Parks Act & Regulations"
 - b. Page 1. Delete Item 1.3.4 and replace as follows: ".4 Invasive species: refers to an organism (plant, animal, fungus, or bacterium) that is not native and has negative effects on our economy, our environment or our health. Not all introduced species are invasive."
 - c. Page 2. Item 1.4.2. Add "Use cover tarps when required to prevent loss or spillage of transported materials."
 - d. Page 3. Item 1.7.1. Add "Littering within National Parks is strictly prohibited and may result in charges and/or fines."
 - e. Page 4. Item 1.8.1. Add "particularly during sensitive install works such as culvert removals and installs." at end of first sentence.
 - f. Page 5. Item 1.8.8. Add "immediately" at end of sentence.
 - g. Page 5. Add Item 1.8.9 as follows: ".9 Any new clay or soil materials to be used for this project must have their source locations inspected for the presence of invasive species. The materials are to be free from invasive species."
 - h. Page 5. Add Item 1.8.10 as follows: ".10 There will be no cutting of trees or shrubs for this project."

- i. Page 5. Add Item 1.8.11 as follows: “.11 Any work in or around sand dunes and its vegetation requires a departmental representative to be present on site for all of the work. Work is to only occur within the delineated areas(s) defined by the Project EPO and indicated by flagging tape or rope.”
 - j. Page 5. Item 1.10.3 Add “or asphalt” after “concrete”.
 - k. Page 6. Item 1.10.6. Delete and replace as follows: “Develop and follow sediment and erosion control plan and emergency response plan. In addition to own plan, follow any of above plans provided by the Departmental Representative.”
 - l. Page 6. Add Item 1.10.7 as follows: “All culvert installations are to occur in the dry. Check weather forecasts to ensure heavy rain events are not predicted during the install period. Cofferdams, silt fencing, sand bagging and pumping may be required to maintain the install works in the dry.”
 - m. Page 6. Item 1.11.2. Delete “Minimize” and replace with “Avoid all”.
 - n. Page 6. Item 1.11.6. Add “and beaches” after “in wetlands”.
 - o. Page 6. Item 1.11.6.3. Add “and Parks Canada” at end of sentence.
 - p. Page 6. Item 1.11.7. Add “as it is illegal to feed wildlife in a National Park” at end of sentence.
11. Section 01 45 00. Page 1. Add Item 1.3.1.2 as follows: “Carry out quality control testing at a frequency required to ensure materials and workmanship conform to specifications but in no case less than the following frequencies:
 - a. Asphalt – to meet control testing requirements of the PEI DOTI&E general provisions and specifications for highway construction.
 - b. Gravels, Borrow – One test for every 1,000 tonne.
 - c. Concrete – test concrete in field for air content, slump and carry out 7, 28 and 56 day cylinder breaks to test for compressive strength.
 12. Section 01 45 00. Page 2. Item 1.4.1. Add “quality assurance” before “purpose of”
 13. Section 01 45 00. Page 2. Add item 1.4.5 as follows: “.5 Quality control testing and inspection.”
 14. Section 03 48 00. Page 1. Delete Item 2.1.1 and replace as follows: “Precast concrete wheel stops: 2.4m long, 250mm deep, 175 mm high.”
 15. Section 10 22 00. Page 1. Item 1.3.1. Delete “incidental to this contract.” And replace with “included in the unit prices paid for this contract.”
 16. Section 32 11 23. Page 2, Item 3.2.2. Add “90mm” before “of Class A”.
 17. Section 33 42 13. Page 2. Item 2.1.3.1. Delete “To CSA B182.6.”
 18. Section 33 42 13. Page 2. Item 2.1.3.2. Add “to CSA B182.8.”
 19. Appendix A. Delete Borehole logs for BH-18 and BH 26-45.
 20. Appendix B. Environmental Impact Analysis is attached for inclusion in tender documents as Appendix B (23 pages)

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Revised August 28, 2015

APPENDIX 1 - COMBINED PRICE FORM (2 pages)

- 1) The prices per unit shall govern in establishing the Total Extended Amount. Any arithmetical errors in this Appendix will be corrected by Canada.
- 2) Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

LUMP SUM

The Lump Sum Amount designates Work to which a Lump Sum Arrangement applies.

- (a) Work included in the Lump Sum Amount represents all work not included in the unit price table.

LUMP SUM AMOUNT (LSA) Excluding applicable tax(es)	N/A
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UNIT PRICE TABLE

The Unit Price Table designates Work to which a Unit Price Arrangement applies.

- (a) Work included in each item is as described in the referenced specification section.
- (b) The Price per Unit shall not include any amounts for Work that is not included in that unit price item.

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Unit Price Table:

Item #	Specification Reference	Class of Labour, Plant or Material	Unit of Measurement	Estimated Quantity	Price per Unit (applicable taxes extra) \$	Extended amount (applicable taxes extra) \$
1.	Various	Overhead, Mobilization, Traffic Control, Environmental Protection	LS	1		
2.	31 23 10	Excavation	CM	3,500		
3.	31 23 13	Premium Borrow	Tonne	1,500		
4.	03 48 00	Concrete Wheel Stops	Each	232		
5.	03 30 00	Concrete Curbs	LM	670		
	33 42 13	Pipe Culverts:				
6.		- 300 diameter	LM	200		
7.		- 450 diameter	LM	30		
8.		- 600 diameter	LM	130		
9.		- 750 diameter	LM	25		
10.		- 900 diameter	LM	25		
11.	32 01 16	Asphalt Removal	SM	50,600		
	32 11 23	Gravels:				
12.		-Class A	Tonne	16,000		
13.		-Class B	Tonne	1,500		
14.		-Replace Millings	Tonne	7,500		
15.		-Crusher Fines	Tonne	25		
16.		-Rip Rap, Class 1 R5	CM	25		
	32 12 16	Asphalt Concrete:				
17.		- Base, Type A	Tonne	8,000		
18.		- Seal, Type B	Tonne	5,700		
19.		- Asphalt Curb	LM	2,400		
20.	32 91 21	Placing Topsoil	SM	20,500		
21.	32 92 22	Hydraulic Seeding	SM	20,500		

TOTAL BID AMOUNT (LSA +TEA)

Excluding applicable tax(es)

Appendix B
Environmental Impact Analysis



parkscanada.gc.ca

Environmental Impact Analysis (EIA)

**PEI Field Unit
2015 Asphalt Resurfacing Projects**

PEINP15-14

Prince Edward Island National Park

August 13th, 2015



**Parks
Canada**

**Parcs
Canada**



1. PROJECT TITLE	PEI Field Unit 2015 Asphalt Resurfacing Projects	
2. PROJECT LOCATION	PEI Field Unit	
3. PROJECT SITE	See Project Description below for comprehensive list.	
4. PROPONENT	Greg Shaw, Project Manager, PEI Field Unit	
5. PROPONENT CONTACT INFORMATION	Greg.Shaw@pc.gc.ca / 902-672-6377 / 902-628-9824 (cell)	
6. PROJECT DATES	September 2015	June, 2016
7. INTERNAL PROJECT FILE #	PEINP15-14	
8. PROJECT DESCRIPTION	<p>The roads and parking lots, providing access and parking for P.E.I. National Park and National Historic sites across the province, are in varying states of deterioration and/or disrepair. Parks Canada PEI Field Unit has contracted out a cost-effective roadway assessment, design, rehabilitation and maintenance strategy to be implemented over the next 9 months to provide a pleasant and safe driving experience for park visitors for the next 20 year period.</p> <p>Work sites are located throughout Parks Canada's Prince Edward Island Field Unit. Below are the locations and approximate areas/distances to be paved;</p> <ul style="list-style-type: none">• Port-La-Joy-Fort-Amherst Paved Road 1.2 km<ul style="list-style-type: none">◦ Paved Parking Lots 4200 m2◦ Gravel Parking Lot 1500 m2• Ardgowan Paved Parking Lot 1200 m2• Green Gables Paved Road 0.5 km• MacMillan Road. Paved Road 0.5 km• Grahams Lane. Paved Road 1.6 km• Brackley Beach Paved Road 0.4 km<ul style="list-style-type: none">◦ Paved Parking Lot 12000 m2• Cavendish Beach Paved Parking Lot 5200 m2 <p>The scope of work for this project includes the provision of all materials, labour and equipment as necessary for the completion of the work as indicated on the drawings and as described in the specifications and notes. Work on this project consists of the following:</p> <ul style="list-style-type: none">• Mill existing asphalt and remove from site. Dispose of surplus millings off site.• Excavating till and fill as required to facilitate construction as shown on the drawings.• Relocate existing directional signs as required. Replace existing culverts with new, as indicated on drawing.• Supply, install and remove all environmental protection measures required, such as silt fences, diversion ditches and check dams.• Topsoil and hydro-seed all vegetated areas disturbed by construction using pre-inspected, invasive species-free soils and a Parks Canada approved seed mix.• Supply, placing and compacting new granular Class A base.	





- Blending of Class A base with asphalt millings where indicated on drawings.
- Construct asphalt and concrete curb.
- Remove existing wheel stops and supply and install precast concrete wheel stops.
- Supply, placing and compacting asphalt as shown on drawings.
- Supply and install new temporary and permanent pavement markings.
- Supply all necessary temporary road signs and traffic control.
- All other labour, materials and work necessary to complete the project to the Department Representative's full satisfaction.
- All work to be carried out in accordance with applicable federal and provincial regulations for those agencies having jurisdiction for the work. The work is subject to the National Park Act and Regulations, Canadian Environmental Protection Act and the PEI Occupational and Safety Act and Regulations.

Since this work is to be carried out within PEI National Park and National Historic sites, particular attention must be exercised to ensure the protection and preservation of ecological integrity of the park's natural and cultural resources. It is essential land remain in as natural a state as possible. Consequently, standards for environmental protection and for visual aesthetics of the final work go considerably beyond standards and methods for normal highway construction. As well, it is important visitor experience a minimum of inconvenience and remain safe. All work must be conducted in an environmentally acceptable and approved manner with all construction activities restricted to the existing right of way or original footprint. The work will commence in September 2015 and will be concluded by June 2016 prior to the beginning of the 2016 visitor season.

9. ENVIRONMENTAL COMPONENTS LIKELY TO BE AFFECTED

Natural Resources: Air quality, noise levels, soil quality, soil erosion, dust production, habitat loss/fragmentation, invasive plant species, surface / ground / marine waters, flora, and fauna / avifauna.

Visitor Experience: Visitor experience (delayed access to the parking lots or beach facilities, construction noise, heavy equipment traffic) will be temporally impacted during paving operations but should be minimal in nature and time. Visitor inconveniences will occur during fall 2015 and as such, minimal visitors will be impacted during this shoulder season.

Cultural Resources: Presence of indigenous people and/or early settler artifacts on various sites that occur within National Historic Sites as well as the close proximity to the coast line and fresh water sources.

Physical activities that will be undertaken to complete the proposed project have been summarized in Appendix 1: *Effects Identification Matrix*. A consistent, phased approach has been used throughout the assessment to identify the proposed activities and predicted impacts.

10. IMPORTANT EFFECTS IDENTIFIED

Air Quality

Provincial air quality is excellent. The province is occasionally subject to trans-boundary pollution from the mainland, including smoke from distant forest fires in neighboring provinces. Local air pollutants are restricted to seasonal (May to October) applications of pesticides, herbicides and fertilizers from park managed lands, adjacent farmlands and golf courses. Local air quality will be temporarily and minimally negatively impacted when heavy machinery is on-site either milling, pulverizing, excavating, paving, edge landscaping or delivering materials. As this project is distributed over many smaller project sites, the scale of negative air quality impacts will be minimal.





Noise Exposure / Vibration

Noise pollution from construction operations will be experienced throughout the construction phase of this project. There is an extensive amount of asphalt to be milled, pulverized, mixed and laid down at each project site. These project works are noisy but their duration at each site is relatively short (2-4 days). All project sites currently experience a certain intensity of noise pollution as they provide vehicular parking and/or roadway access.

Soil Quality

Soils, during milling, pulverizing, paving operations and edge landscaping may be negatively impacted (compaction, petroleum contamination) from the use of large equipment travelling in and around work sites. This will not be a significant impact as this will occur only on the landscaped lawn area immediately surrounding the asphalt paved sites. Grass seed will be planted on disturbed soils with a park approved grass seed mixture. Machinery is to be in good working order and free from leaking fluids while on site.

Soil Erosion

Paving operations at all project work sites should not result in removal of an appreciable amount of grass, natural vegetation or topsoil thereby giving opportunity for soil erosion to occur which can have negative effects on water quality due to siltation.

Dust Production

Dust production during dry, warm weather condition while engaging in transportation, milling, pulverizing or excavation activities is to be expected during typical paving projects. Moving vehicles or heavy equipment can create a thin dust blanket on vegetation immediately adjacent to the roadway or parking lot. This is expected to be minimal due to the size of the project work sites.

Invasive Plant Species

All paving operations will be carried out on the footprint of the previous roadways or parking lots. There should be little to no requirement for additional soils to be brought in for these project works. If such a need is realized, there lies the risk of introducing invasive species into the National Park and/or National Historic Site(s) where efforts are already underway to control and eradicate invasive plants.

Surface / Ground / Marine Waters

Spills of any kind of petroleum products (oils, gasoline, diesel, hydraulic fluids) are serious and must be tended to immediately. A spill's proximity to water increases the seriousness of the event drastically as does the amount of material released. Organisms are immediately affected and may not recover from exposure, contact or ingestion of the substance. Bio-accumulation can then become a concern for other species of prey. Spills can also seep deep into the ground reaching subsurface aqueducts which supply PEI with all of its drinking water. Spills are a real and serious hazard when working with large machinery during construction. Contractors are required to have spill kits on site at all times when carrying out project works with heavy machinery to rapidly capture and contain any spill that might occur.

Two gravel overflow parking lots (Cavendish Beach & Brackley Beach) will be paved with asphalt thereby increasing surface water runoff in those areas. The bordering areas around the newly hard-surfaced parking lots will be sodded to reduce soil erosion impacts.

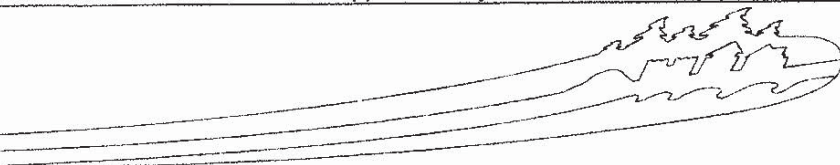
Soil erosion is another concern with regards to impacts on water quality. This effect has previously been addressed above.

Flora

Flora bordering paving project sites may be impacted by trampling or crushed by heavy equipment. This negative impact, however, is expected to be minimal as only the previous footprints of parking lots and roadways will be repaved and most parking lots and roadways are bordered by gravel or mowed grasses.

Fauna / Avifauna

Project activities will require heavy equipment to mill, pulverize, mix and lay new asphalt on project sites thereby creating disturbing nearby fauna / avifauna. This disturbance will occur approximately 6 to 8 hours per day for two to





five days and will likely result in temporary behavioral changes for animals in the immediate vicinity. Once project works have been completed, the localized disturbances from construction equipment will have ceased. It is expected that these impacts are minimal to species already adapted to anthropogenic impacts / disturbances.

Resurfacing roadways may generate increased vehicle speeds translating into increased wildlife mortality. This can directly influence wildlife populations whose home range incorporates the roadway corridor.

Visitor Experience

Large equipment will be in operation at each work site for a minimal amount of time (2-5 days) during the shoulder visitor season. There will be no access to work sites and newly surfaced parking lots until project works have been completed and the asphalt hardens (24 hours). Traffic on roadways may be halted for short periods of time and may occasionally be only one lane. These inconveniences are expected to have minimal impacts on local and visitor experiences in order to provide improved driving surfaces and visitor safety for many years to come.

Cultural Resources

As no increased infrastructure (parking lot, roadway) footprint will occur as the result of these project works and since all project works are to be carried out on previously impacted lands, there is no cause for concern for the loss or destruction of any cultural resources. A Parks Canada archaeologist reviewed the proposed project works and deemed there was no cause for concern with regards to cultural resources.

11. MITIGATION MEASURES

Preparation / Pre-construction:

- The contractor is not to limit his/her environmental responsibilities to this screening report and will be responsible to adhere to Provincial, Federal (including National Park) and Municipal regulations.
- Proper safety procedures must be followed during the duration of the project as per applicable municipal, provincial (Occupational Health and Safety Act & Regs.) and federal regulations.
- Any and all hazardous material must be disposed of in accordance with all federal and provincial requirements. The EPO must be notified as to when transfer and disposal of hazardous materials is to occur as well as which waste disposal facility is to be used. All construction equipment must be fitted with standard and well-maintained noise suppression devices. Construction activities must respect appropriate time restriction and use smaller, less disturbing equipment where possible.
- The contractor must comply with the requirements of the Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of hazardous materials.
- Littering is strictly prohibited within National Parks and National Historic Sites.
- Feeding of wildlife is strictly prohibited within National Parks and National Historic Sites.
- All work is to be confined to the site limits delineated and/or directed by the Environmental Protection Officer (EPO) or designate.
- No staging of materials/equipment will take place on any environmentally sensitive areas. All staging area sites, if required, will be determined by the EPO.

Culvert Removal & Installation

- Parks Canada's Environmental Protection Officer (EPO) or designate must be present during all culvert installations for this project works.
- Minimal removal of vegetation from drainage ditches and around culverts needed to establish adequate drainage and install culverts.
- All culvert decommissions and installations must be carried out in the dry. Weather forecasts should be checked for heavy rain events and work avoided during such events. Cofferdams, pumping and silt fencing may be required in order to perform removal and installations in the dry.





Erosion / Sedimentation

- A sediment and erosion control plan and an emergency response plan should be prepared and implemented by the proponent for all project works and approved by Parks Canada.
- Work should be scheduled to avoid periods of heavy precipitation. Short-term erosion and sediment control measures (i.e. silt fence, straw bales, temporary matting, geo-textile filter fabric) must be installed to prevent runoff from entering any culverts, adjacent waterway, etc. where necessary. These structures will remain in place until natural vegetation has been established.
- Appropriate dust suppression methods are to be employed when required. The construction manager shall determine locations where water is to be applied, the amount of water to be applied, and the times at which it shall be applied. Waste oil is not to be used for dust control under any circumstances.
- Any exposed soil area must be minimized by limiting the area that is exposed at one time and by limiting the time that any one area is exposed. All stockpiled loose materials must be covered and/or diked to prevent erosion or silt runoff from leaving the site. Wherever possible, exposed soil should be replanted or sodded to ensure soil stabilization. EPO must approve of all stockpile sites and any erosion measures required.

Vegetation

- Avoid disturbance of vegetation and natural features where possible.
- There will be no cutting of wood vegetation for paving operations. Should the need arise, Parks Canada's Environmental Protection Officer (EPO) or designate must be contacted and approval granted.
- Restore disturbed areas as close as possible to natural conditions. Backfill, excavate, grade and contour soil, replace topsoil, fertilize and reseeded with a Parks Canada approved seed mixture.
- Any soils that are to be used in the resurfacing projects are to be pre-examined by Parks Canada Resource Conservation Staff for the presence of any invasive species that may be introduced to the National Park or National Historic Sites. If invasive species are found, new clean sources of soils must be found.
- Exceptional care will be taken around areas with existing invasive species presence in order to eliminate the potential for spreading these species to other areas. Such sites will be delineated by Parks Canada's EPO and will be highlighted to the contractor.

Cultural Artifacts

- If materials of potential historical or cultural interest are encountered, work will cease at that location and Parks Canada cultural resource professionals will be immediately contacted for an evaluation assessment.

Waste Disposal

- Any construction, soils or demolition debris will be disposed of in a Provincially approved manner (Either a permit or receipts for costs must be submitted to PWGSC by the contractor to verify that the material was disposed of in a provincially approved manner) and not within National Parks or National Historic Sites.
- Do not discharge residual or rejected asphalt or concrete on site. Do not wash and clean asphalt or concrete vehicles on site. Carryout all dumping and cleaning operations at the originating plant according to all provincially approved practices/regulations. If an accidental release of concrete or asphalt should occur, remove it from the site prior to solidification.

Spills / Accidental Releases:

- All construction materials must be clean and non-toxic (free of fuel, oil, grease, and/or any contaminants or invasive species).
- Ensure asphalt and concrete trucks are clean, free from leaks and will not release any material during transport to the site. Dump truck operators transporting asphalt must check their tailgates after each load up to ensure they are locked and excess asphalt is removed prior to gaining access provincial highways and work sites.





- No fuel or petroleum products shall be stored on site.
- Careful maintenance and monitoring of all heavy equipment must be carried out to minimize the risk of spills or leaks of petroleum based products.
- Equipment refueling operations will take place at least 30 meters from any watercourse and the refueling will be conducted on a prepared impermeable surface using a collection system.
- Contractors are to have an emergency response plan for fuel leaks and petroleum contamination and are to maintain appropriate spill response equipment in a readily accessible location with the knowledge and ability to respond to spills.
- In the event of a spill, Parks Canada EPO (902-314-5976 must be contacted immediately and the spill must be reported to both Environmental Emergency (1-800-565-1633) and Jasper Dispatch (1-877-852-3100).

12. IMPACT SIGNIFICANCE

The Canada National Parks Act, October 2000 defines ecological integrity with respect to a National Park as, "a condition that is determined to be characteristic of its natural region and likely to persist, including abiotic components and the composition and abundance of native species and biological communities, rates of change and supporting processes". It is anticipated that this project will have no or minimal impact on the existing ecological integrity of the site or the National Park.

It is anticipated that this project will have no or minimal impact on commemorative integrity or visitor experience objectives.

Effect on SARA Listed Species: There are no listed species within the proposed project sites. As a result, this project will have no impact.

There are no listed wildlife species or critical habitats that will likely be affected by the project activities. Given the limited geographic extent, spatial and temporal footprints and limited magnitude of the proposed project, no significant adverse residual effects are anticipated. The proposed project will not disrupt any wetlands. No heritage sites, or other sensitive elements have been identified that would be adversely affected by the project. There are no negative cumulative effects anticipated as the result of this project.

13. CONSIDERATION OF THE NEED FOR PUBLIC PARTICIPATION & ABORIGINAL CONSULTATION

Indicate whether opportunity for public participation should be offered:

☒ No

☐ Yes

12 b) Indicate whether there is a requirement for Aboriginal Consultation in relation to project impacts:

☐ No

☒ Yes

Both archaeological and cultural experts were consulted with regards to whether this project work(s) would impact potential aboriginal or early settlers cultural resources. Both experts agreed that no such impacts were likely.

A letter was sent to MCPEI and both band chiefs on July 17th, 2015 regarding the particulars of this project and requesting any input they may have.

PUBLIC PARTICIPATION

☒ No

14. SITE INSPECTION





☒ **Site inspections required**

The National Park EPO or designate will meet with the contractor to go over the environmental impact assessment and required mitigated measures for project sites. Each project site will be visited during construction / paving activities to ensure the contractor is abiding by the parameters as set out in the Environmental Impact Assessment. Any known environmental issues will be reported to Resource Conservation staff or the EPO.

Ecologically sensitive work (ie. culvert removal and replacement) is to be personally supervised by the EPO during the active work phase in its entirety.

Project works will be documented (digital photos, construction log) by EPO.

15. SPECIES AT RISK MONITORING

Effect on SARA Listed Species: There are no listed species within the proposed project sites. As a result, this project will have no impact.

16. SARA NOTIFICATION

Effect on SARA Listed Species: There are no listed species within the proposed project sites. As a result, this project will have no impact therefore no SARA notification requirement.

17. EXPERTS CONSULTED

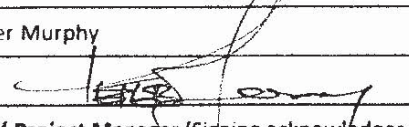
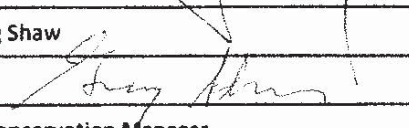


Department/Agency/Institution	Public Works & Government Service Canada
Contact Information	Pamela L. MacAdam, P.Eng. Project Manager, Architectural & Engineering Services Public Works and Government Services Canada / Government of Canada pamela.macadam@pwgsc-tpsgc.gc.ca / Tel.: 902-368-0591 / Cell: 902-940-5393 3 Queen Street, Charlottetown, PEI C1A 7M8
Date of Request	July 7, 2015
Expertise Requested	Description of engineering / construction processes. Construction timelines.
Response	Description of engineering / construction processes. Construction timelines.
Department/Agency/Institution	Jenneth E. Curtis, Ph.D. – Archaeologist, Parks Canada Agency
Contact Information	Terrestrial Archaeology Archéologie terrestre Archaeology and History Branch Direction de l'archéologie et l'histoire Heritage Conservation and Commemoration Directorate Direction générale de la conservation et de la commémoration du patrimoine Parks Canada Agency L'Agence Parcs Canada 1869 Upper Water Street 1869, rue Upper Water Suite AH 201 pièce AH 201





	Heritage Conservation and Commemoration Directorate Direction générale de la conservation et de la commémoration du patrimoine Parks Canada Agency L'Agence Parcs Canada 1869 Upper Water Street 1869, rue Upper Water Suite AH 201 pièce AH 201 Halifax, NS Halifax, NE B3J 1S9 Telephone Téléphone: 902-426-3165 Cell/Cellulaire: 902-225-9034 Facsimile Télécopieur: 902-426-2728 www.parkscanada.gc.ca www.parcsCanada.gc.ca Government of Canada Gouvernement du Canada
Date of Request	July 16 th , 2015
Expertise Requested	Archaeological Assessment – Cultural Artifacts
Response	Site visit by a Parks Canada archaeologist will not be necessary during excavation or other project activities. Small likelihood of uncovering any cultural resources.
Department/Agency/Institution	Parks Canada Agency
Contact Information	Anne Desgagne Cultural Resource Specialist, Parks Canada Agency Anne.desgagne@pc.gc.ca
Date of Request	June 15, 2015
Expertise Requested	Cultural Resource Review – National Park, National Historic Sites
Response	No cultural resource impacts.
Department/Agency/Institution	
Contact Information	
Date of Request	
Expertise Requested	
Response	
DECISION	
Taking into account implementation of mitigation measures outlined in the analysis, the project is...	
<i>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 that the project CANNOT go ahead.</i>	
<input checked="checked" type="checkbox"/>	Not likely to cause significant adverse environmental effects.
<input type="checkbox"/>	



SIGNATURES AND APPROVALS		
EA Author		
Name: Peter Murphy	Title: Resource Conservation Environmental Protection Officer	
Signature: 	Date: Aug 13, 2015	
Proponent / Project Manager (Signing acknowledges the receipt, review and understanding of this document's contents.)		
Name: Greg Shaw	Title: Project Manager	
Signature: 	Date: Aug 13/15	
Resource Conservation Manager		
Name: Paul Giroux	Title: Acting Resource Conservation Manager	
Signature: 	Date: Aug 13/15	
DECISION APPROVAL		
Name: Karen Jans	Title: Field Unit Superintendent	
Signature: 	Date: Aug 13/15	
18. REFERENCE LIST		
<ul style="list-style-type: none">• Parks Canada, 2007. Prince Edward Island National Park of Canada and Dalvay-by-the-Sea National Historic Site of Canada Management Plan. 71 pp.• Parks Canada, 1977. Prince Edward Island National Park Resource Inventory & Analysis.• PE 10-02 Gulf Shore Parkway Rehabilitation – Dalvay• PE 10-17 Gulf Shore Parkway Rehabilitation – Cavendish• TN-2000-07 Terra Nova National Park Trans Canada Highway CEAA		
19. ATTACHMENTS LIST		
<p>Appendix 1: Effects Identification Matrix Appendix 2: SARA-Compliant Authorization Decision Tool Appendix 3: Aerial Photos of Project Sites</p>		





20. AUTHORIZATION / DISTRIBUTION CHECKLIST

Position	Signed	Copied	Initialed
Superintendent	<input type="checkbox"/>		<input type="text"/>
Resource Conservation Manager	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>
Environmental Assessment Author	<input checked="" type="checkbox"/>		<input type="text" value="JTM"/>
Project Manager	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="L & S"/>
Park Warden		<input type="checkbox"/>	<input type="text"/>
Central Records		<input type="checkbox"/>	<input type="text"/>





21. PERMITTED AUTHORITIES GRANTED BY SUPERINTENDANT FOR THIS PROJECT WORKS.

- ☒ **Crown Lands** – This assessment constitutes the authorization for work on crown lands owned by Parks Canada and forms the permit for restricted activities indicated below. It shall be presented when requested for verification of authorization.
- ☒ **Gazetted Lands** – This assessment is for work on Parks Canada gazetted lands. Separate permits may be issued for restricted activities identified below.

General Regulations

- ☐ **Restricted and Prohibited Activities, Uses and Travel [Sec. 7 (5)(a) & Sect. 7 (5)(b)]**

The superintendent may, on application to him by any person, in respect of any activity or use restricted or prohibited pursuant to subsection (1) or any entry and travel in an area that has been restricted or prohibited, pursuant to that subsection, issue to that person a permit to (a) engage in that activity or use, or (b) enter and travel in that area on such terms and conditions as the superintendent may prescribe in the permit.

- ☐ **Authorization [Sec. 7 (1)(5)(a), Sec. 7 (1)(5)(b), Sec. 7 (1)(5)(c)]**

The superintendent may, on request, issue an authorization and may prescribe terms and conditions in any such authorization, taking into account (a) the natural and cultural resources of the park; (b) the safety, health and enjoyment of persons visiting or residing in the park; and (c) the preservation, control and management of the park.

- ☒ **Preservation of Property [Sec. 11 (1) & Sec. 11 (2)]**

The superintendent may, on application, issue a permit authorizing the permit holder to take flora or natural objects for scientific purposes from a park, or for the removal and use of natural objects for construction purposes within a park, if the applicant demonstrates in writing that the performance of those activities will not: (a) have a significant adverse environmental impact on the park and its natural resources; (b) jeopardize any cultural, historical and archaeological resources; and (c) pose a danger to public health or public safety.

- ☐ **Preservation of Property [Sec. 12 (1) & Sec. 12 (2)]**

The superintendent may issue a permit to any person authorizing the person to remove, deface, damage or destroy any flora or natural objects in a Park for purposes of Park management.

- ☐ **Preservation of Property [Sec. 14 (2)]**

A superintendent may issue a permit to any person authorizing that person to remove specimens of prehistoric or historic artifacts or structures from a park for the purpose of public display in a museum.

- ☐ **Use of Water Resources [Sec. 18 (1)]**

A superintendent may issue a permit to any person for a period not exceeding 10 years authorizing the person to take water for domestic, business or railway water supply purposes within a park from (a) any watercourse; (b) any Park well; or (c) any Park water supply system other than a waterworks system for a townsite or subdivision.

Fire Protection Regulations

- ☐ **Prevention of Fires [Sec. 3]**

The superintendent may issue a permit to a person to start and maintain a fire in a park and such permit shall be subject to any terms and conditions stated thereon by the superintendent.







Section B: Potential Indirect Effects

B. Indirect Effects (all phases)				
		Impacts as a result of changes to the environment		
		With respect to non-Aboriginal peoples:	With respect to Aboriginal peoples:	
		Health and socio-economic conditions	Health & socio-economic conditions	Current use of lands and resources for traditional purposes
Phase	Natural resource components affected by the project			
All phases: Preparation /construction operation/implementation/decommissioning	Could impacts to <u>air</u> lead to adverse effects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>soils and landforms</u> lead to adverse effects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>water</u> (e.g. surface, ground water and water crossings) lead to adverse effects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>flora</u> (including SAR) lead to adverse effects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>fauna</u> (including SAR) lead to adverse effects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





Appendix 2: SARA-Compliant Authorization Decision Tool

(Note: Please consult a representative of the Species Conservation and Management team when completing this form)

Date this document was completed:	Where this activity will occur: (i.e., PCA site)	SAR implicated by this activity:	Title of proposed activity (e.g., Trail development in Blue Meadow):	Author of this Document:	*Collaborators involved in drafting this document:
08-13-2015	PEI National Park & National Historic Sites	none	PEI Field Unit 2015 Resurfacing Projects	Peter Murphy	

Part A – Is a SARA authorization required?

1. Will the activity affect a listed endangered (En), threatened (Th) or extirpated (Ex) species at risk, its residence or critical habitat?

Affect = kill, harm, harass, capture, or take individuals; possess, collect, buy, sell or trade individuals or parts of individuals; damage or destroy residence; destroy any part of critical habitat, or carry out an activity that is prohibited under a protection order. Note that indirect and direct effects of the activity on the species, residence, critical habitat, etc. must be considered.

☒ **No**
The activity will not affect a listed species (En, Th, or Ex), its residence, or its critical habitat AND the activity is not prohibited in a protection order. A SARA authorization is NOT required.
• If you checked NO, use this box to insert an explanation and STOP - you have completed the Tool.

Describe the activity and explain why there is no expected effect, including an explanation of mitigation measures taken to prevent potential effects on species at risk, their residence or their critical habitat.
If an impact assessment is being conducted, refer to the mitigations in the impact assessment.

☐ **Yes**
The activity will affect a listed species (En, Th, or Ex), its residence, or its critical habitat OR the activity is prohibited in a protection order.
• If you checked YES, use this box to describe the activity and its effects on the species and continue to **Question 2**.

Note – if you are contemplating an activity that may destroy critical habitat or is an activity prohibited in a protection order, it must be discussed with VPs and the CEO. If possible, find alternatives and mitigation measures to prevent destruction of critical habitat or non-compliance with an order prohibition (i.e., to avoid an effect on the critical habitat/prohibited activity and the requirement for an authorization).

2. Is the activity already authorized in a final recovery document or required for public safety, health, or national security AND authorized by or under another Act of Parliament?

☐ **Yes**
SARA authorization is NOT required.
• If you checked YES, use this box to explain why the activity is exempt and STOP – you have completed the Tool.

• Explain why the activity is needed for public safety, health or national security and make a reference to the Act of Parliament under which the activity is authorized.

OR

• If the activity is authorized in a final recovery document, refer to the published recovery and explain why the activity is exempt under section 83 of SARA).





	Note - An activity that is exempt for public safety, health, or national security should be an activity that is imperative or an emergency-type situation pertaining to health and safety of the general public, and cannot be delayed for the normal SARA permitting process (e.g., wildfire control measures).
<input type="checkbox"/> No	SARA authorization is required. • If you checked NO, continue to Part B .

Part B – Can a SARA authorization be issued?

******Complete ONLY if you have answered NO to Question 2, above******

3. Does the activity fall into one of the following three categories?
*Check the appropriate box and continue to Question 4. An authorization can only be issued if it fits into one of the categories below (SARA s. 73[1]). If the proposed activity DOES NOT fit in any of the three categories below the activity CANNOT be authorized and you should continue to **Part E**.*

- ☐ The activity is scientific research related to the conservation of the species and conducted by qualified persons; OR
- ☐ The activity benefits the species or is required to enhance its chance of survival in the wild ; OR
- ☐ Affecting the species is incidental* to the activity (i.e., the purpose of the activity is not to engage in an activity that is prohibited under SARA e.g., kill, harm, harass ... an individual, destroy critical habitat, contravene a prohibition in an Emergency Protection Order, etc.).

* Affecting the species is incidental - For example, fishing for a listed species cannot be permitted, but accidental by-catch may be. Additionally, harm to a listed plant species cannot be permitted, but repairs to a bridge that incidentally disturb the plant may be.

4. If you concluded that the activity can be authorized, have alternatives that would reduce the impact(s) on the species been considered?

- ☐ No The activity CANNOT be authorized as alternatives have not been/cannot be considered.
- If you checked this box, continue to **Part E**.

- ☐ Yes The activity MAY be authorized.
- If you checked YES, use this box to explain the considered alternatives and continue to **Question 5**.

Identify all reasonable alternatives that were considered to reduce the impact on the species (including alternatives to the project and alternative means of carrying out the project, including a "no action" alternative). The explanation must demonstrate that the best solution has been adopted.

5. Will all feasible measures be taken to minimize the impact of the activity?

- ☐ No The activity CANNOT be authorized.
- If you checked NO, continue to **Part E**.
- ☐ Yes The activity MAY be authorized.
- If you checked YES, use this box to identify the feasible measures that will be taken to avoid or lessen potential impacts of the project on the species and continue to **Question 6**.

- Measures and conclusion must be consistent with exiting recovery documents, COSEWIC assessment reports, etc.
- Note: If this authorization is considered as part of an impact assessment, the information provided should be consistent with the mitigation section of the impact assessment.

6. Will the activity jeopardize the survival or recovery of the species?

If an activity will not jeopardize the survival or recovery of the species, you should provide a sound rationale to demonstrate that the possible effect on recovery is minor and temporary AND that the species is capable of safely incurring such effects to its recovery.

- ☐ Yes The activity CANNOT be authorized.





	<ul style="list-style-type: none">If you checked YES, continue to Part E.
<input type="checkbox"/> No	<p>The activity MAY be authorized.</p> <ul style="list-style-type: none">If you checked NO, <u>use this box</u> to explain why the activity will not jeopardize survival or recovery,, based on best available information, then continue to Part C. <p><small>• Indicate whether the project will increase mortality, decrease fertility/recruitment, affect a key life stage/cycle. • Indicate whether the project will increase an existing threat to the point where survival/recovery might be jeopardized. • Make reference to known effects of similar activities based on existing literature. Discuss other factors relevant to assessing jeopardy for the species and site (e.g., likelihood of a negative impact on the population, species' sensitivity to the impact, potential cumulative effects from other impacts).</small></p>

Part C - How will the SARA authorization be issued?

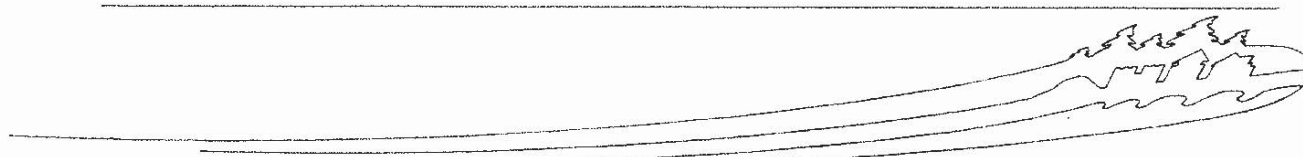
7. Under which process will the authorization be issued? Will the impact assessment (EIA) process or Research and Collection Permit System (RCPS) be used to issue the authorization?	
<input type="checkbox"/> SARA permit (s.73)	<ul style="list-style-type: none">If you checked this box, ensure that it is appropriate to use s. 73*, that a SARA authorization is issued (see <u>template on intranet</u>) and that an explanation is posted on the SAR Public Registry (using the information provided above – see <u>template on intranet</u>). <p><small>*Note that PCA does not typically issue s. 73 permits. To do so, please contact a representative from the Species Conservation and Management team.</small></p>
<input type="checkbox"/> An existing PCA process (and SARA s.74)	<ul style="list-style-type: none">If you checked this box, <u>use this box</u> to indicate whether the PCA EIA process or the PCA Research and Collection Permits System will be used to issue the authorization. Ensure that a SARA authorization is issued (see <u>template on intranet</u>) and that an explanation is posted on the SAR Public Registry (using the information provided above – see <u>template on intranet</u>).

Part D – How will the authorized activity impact ER, VE, and Agency priorities?

8. Will the activity impact ER or VE programs or Agency priorities?

If so, we will work with colleagues to creatively address any potential loss of programming or opportunities.

<input type="checkbox"/> The authorized activity will not impact ER or VE programs or Agency priorities	<ul style="list-style-type: none">If you checked this box, <u>use this box</u> to describe why the activity does not have an impact on ER or VE. <p><small>Indicate if this decision was made with the support of ER or VE staff, and if so, whom.</small></p>
<input type="checkbox"/> The authorized activity will impact ER or VE programs or Agency priorities	<ul style="list-style-type: none">If you checked this box, <u>use this box</u> to describe the impact that the activity will have on ER or VE. <p><small>Indicate how this decision was made and who was involved. Identify next steps to creatively address potential loss of ER or VE programming or opportunities</small></p>





Part E – Summary of Decisions

9. Does the activity require a SARA authorization and can a SARA authorization be issued?

Indicate selection.

- ☐ This activity does not require a SARA authorization. Refer to Questions 1 and 2 for explanation.
- ☐ This activity requires a SARA authorization but WILL NOT be authorized because it does not fit into one of the three required categories (see response to Question 3) OR it does not meet one of the SARA pre-conditions (see responses to Questions 4-6).
- ☐ This activity meets the SARA authorization requirements.

Part F – Signatures and Approval

Author (Add additional signature blocks for multiple authors as required)

Name:	Peter Murphy	
Position:	Environmental Protection Officer	Date: 2015-08-13

Species Conservation Management Recommendation by

Name:	Paul Giroux	
Position:	Resource Conservation Manager	Date:

Was a legal opinion related to this activity requested? No

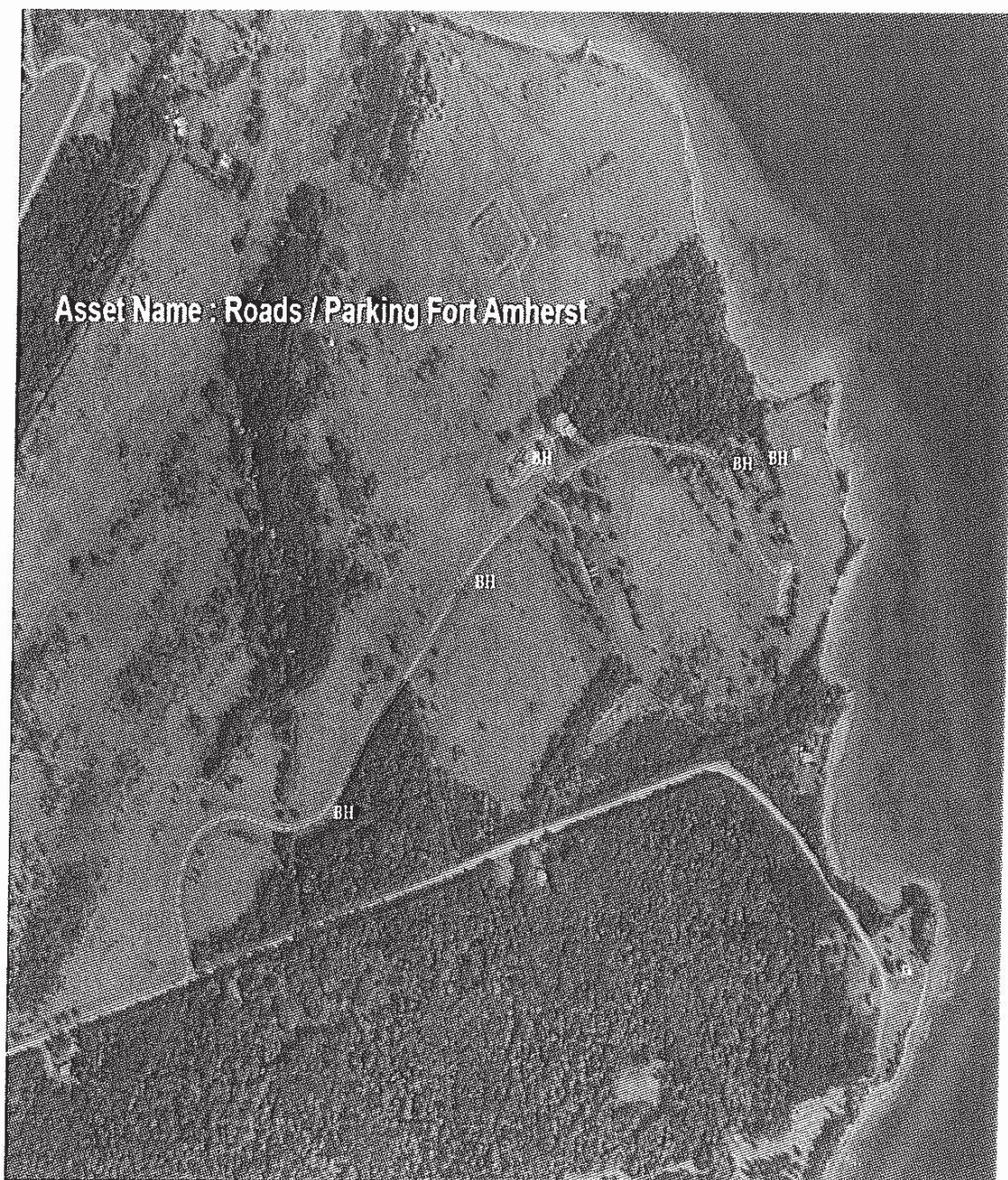
Name of Legal Counsel:		Date:
Summary of opinion/legal risks:		

Decision Approval

Name:	Karen Jans	
Position (Field Unit Superintendent, or Designate):	Field Unit Superintendent	
Signature:		Date:



Appendix 3(a): Aerial Photos of Project Sites – Port la Joie / Fort Amherst





Appendix 3(b): Aerial Photos of Project Sites – Ardgowan National Historic Site

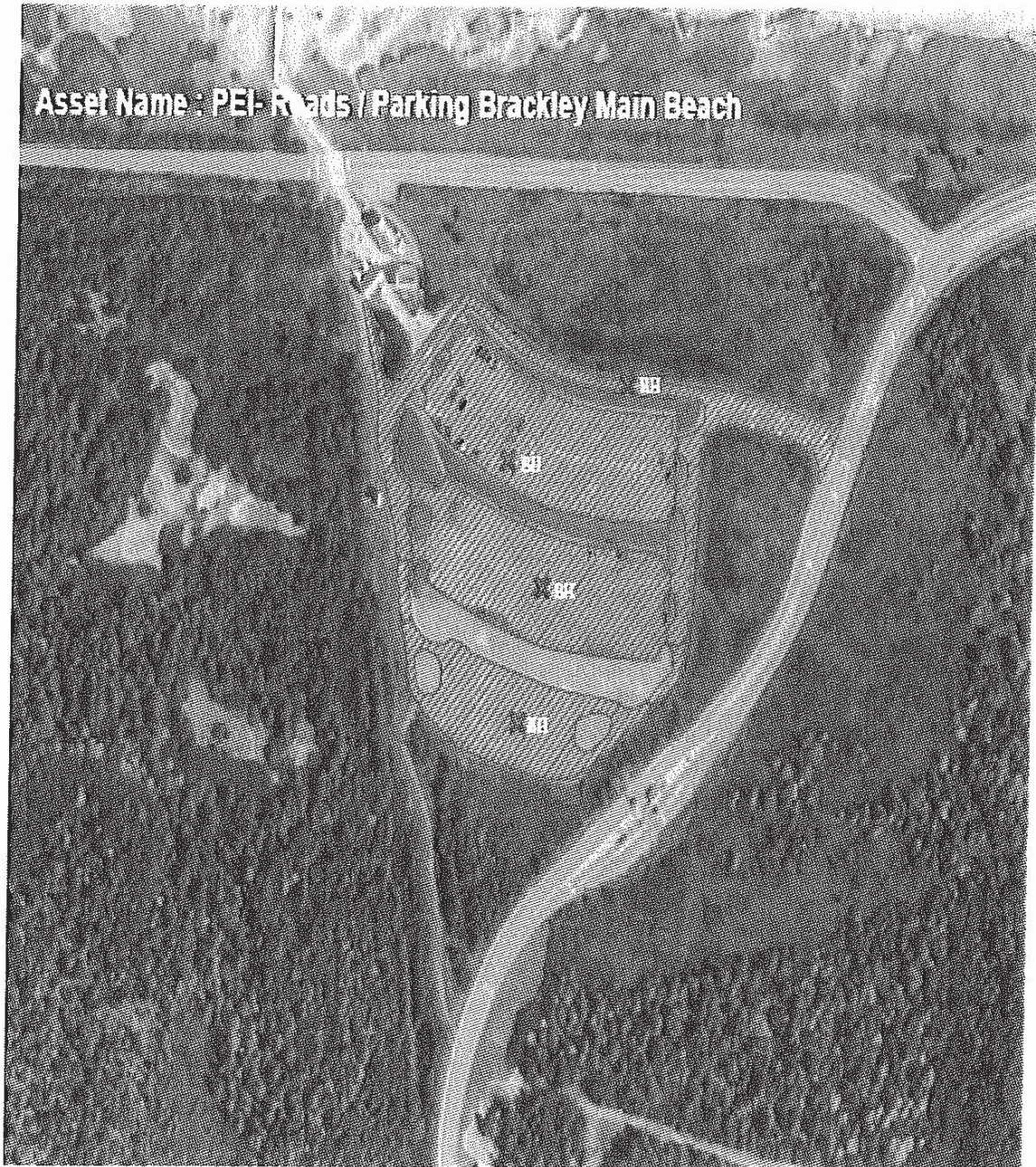


Appendix 3(c): Aerial Photos of Project Sites – MacMillan Lane



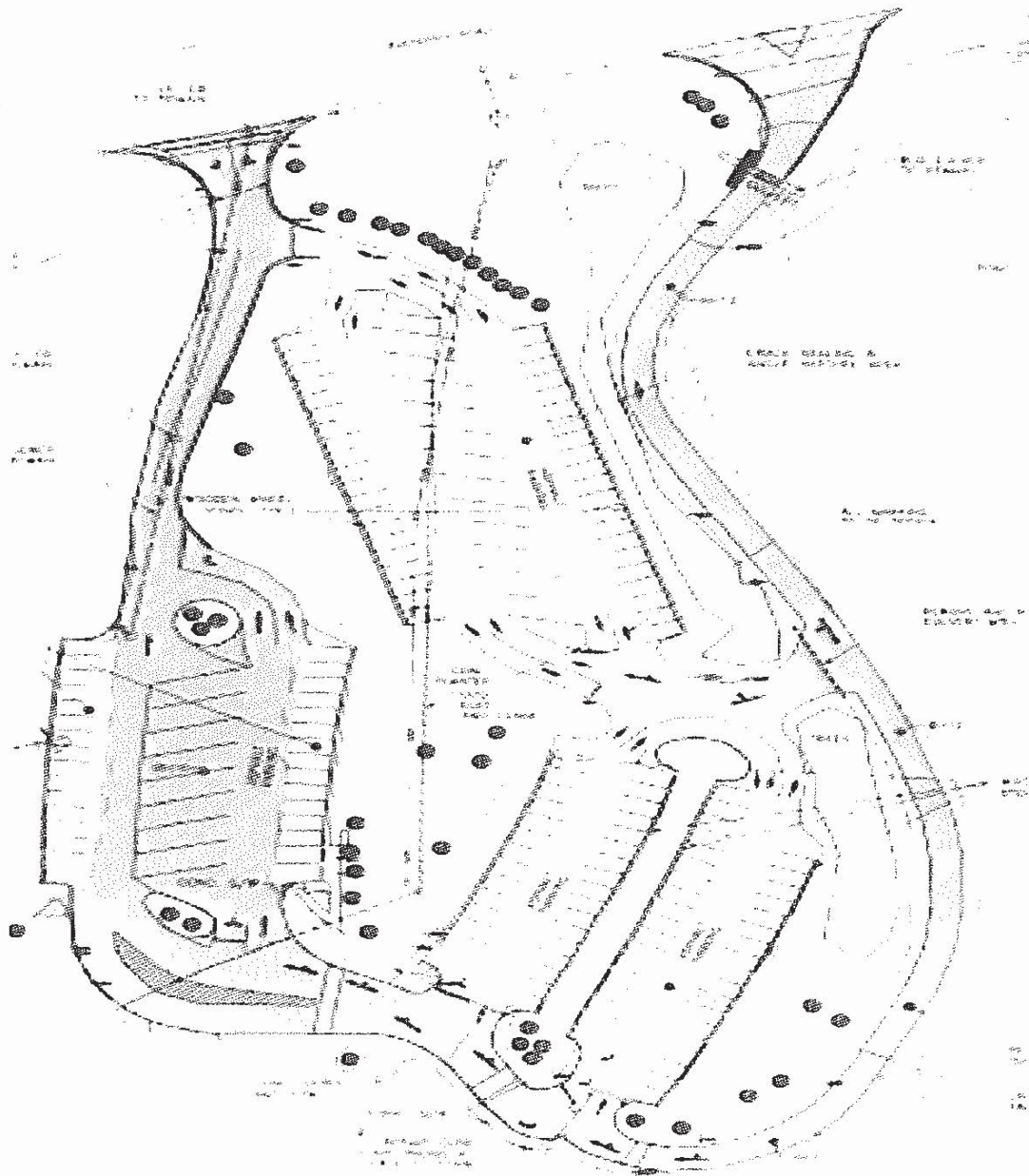


Appendix 3(d): Aerial Photos of Project Sites – Brackley Main Beach





Appendix 3(e): Aerial Photos of Project Sites—Green Gables National Historic Site (Note that only the Grey perimeter road will be paved.)





Appendix 3(f): Aerial Photos of Project Sites – Grahams Lane



