

Full Proposal

Full Proposal Details
Full Proposal # :WR0000564
Full Proposal Status : FP Received

Project Information

Terms and Conditions

To review the terms and conditions click [here](#)

Project Information

Project Title:	West Arm Park Fuel Reduction - Harrop TU6	Project Country:	Canada
Primary Purpose:	Wildfire Risk Reduction	Project Location - State/Province:	British Columbia
Project Start Date	09/16/2019	Postal Code	V1C 7G5
Project Completion Date	03/31/2020		

Contact Information

Principal Contact Information

Principal Contact Name:	Amanda Weber-Roy	City	Cranbrook
Country	Canada	Postal Code	V1C 7G5
Province	British Columbia	Proponent's Organization	BC Parks - Kootenay
Contact Email	amanda.weber-roy@gov.bc.ca	Contact Phone	250 489 9211
Contact Address	205 Industrial Road G		

Project Details

Project Description

Full Proposal Number	WR0000564
Full Proposal Upload (PDF)	
Region	Kootenay Boundary Region
Resource District	Kootenay Lake Forest District
Management Unit:	TSA 13 Kootenay Lake
Project Site Location:	The project location is a 26.5 ha (gross) treatment unit at the end of the Lasca Creek Road and adjacent to Strickland Creek in West Arm Provincial Park.
UTM Zone	11
UTM Easting	492767
UTM Northing	5493642
Location Map and Spatial Data File Attachment	WAP_Strickland_Basemap_2018-11-28.kmz WAP_Strickland_Basemap_Avenza_2018_11_27.pdf WAP_Unit_6_Presc_Plan_Map_Avenza_2018_11_28.pdf
BEC Variant(s):	ICHdw1
Project Description:	The West Arm Provincial Park Fire Management Plan (2017) identified the northeast corner of the Park as a critical area for the establishment of landscape level fuel breaks. The stand structure in this area—mature coniferous forest with extensive ladder and surface fuels—will support high to extreme potential fire behaviour under 90th percentile summer fire weather conditions. The implementation of this prescription will significantly reduce fuel hazards (surface fuels and canopy bulk density) in this area and contribute to the development of an integrated network of fuel breaks between Harrop and the Park. This treatment is essential as it provides much needed access to TU2 which is a more profitable treatment unit because it does not have a dead pine component. This treatment involves a 17.7 ha (net) mechanical treatment: overstory thinning (estimated cost of treatment with large dead pine component, road building

	<p>and stumpage less revenues from the sale of the wood is \$6,000/ha plus \$10,000 for Project Management and \$10,000 for administration which is for the development of a Communication Plan with the RDCK and the City of Nelson) and a 5.9 ha (net) Hand treatment: understory thinning (estimated cost less revenues for biomass utilization is \$10,000/ha plus \$10,000 for Project Management for a total estimated cost of \$198,000. The objectives of the treatment are: -Enhance key Park values including biodiversity and wildlife habitat, and to promote ecosystem resilience. Fuel Management Objectives: -Help protect West Arm Provincial Park's natural values from high intensity wildfire; -Improve public safety in the Harrop area as well as within West Arm Provincial Park; -Improve the ability of the BC Wildfire Service to protect Park values and private land in the adjacent community; -Enhance natural barriers to reduce the continuity of fuel loads; -Demonstrate the principles and practices of FireSmart and fuel/ vegetation management to local community members and the broader public; Biodiversity and Other Objectives: -Emulate the pattern of natural disturbances that have historically acted upon Park ecosystems; -Accelerate succession to mature and older-growth forest structural conditions with generally lower stand densities; -Increase the availability and diversity of wildlife habitat through the restoration of more natural mixed or semi-open forest conditions; -Minimize negative impacts to, and where possible enhance, Park values including cultural heritage, recreation and visual quality; -Minimize negative impacts to, and where possible enhance, the many values of the treated forest, including source water protection and forest health. Management Strategies: -Reduce crown continuity with a typical target of 30 - 40% crown closure to reduce the risk of crown fire; -Create small gaps and patch openings in the forest canopy to emulate natural disturbances; -Protect sensitive areas, including riparian ecosystems and areas with sensitive soils; -Retain some representative patches of unmodified mature forest, especially in mesic to moist areas; - Retain veteran and wildlife trees throughout the treatment areas; -Preferentially retain large mature Ponderosa pine, Douglas-fir and larch, while preferentially removing less drought- and fire-adapted tree species such as cedar, hemlock and true firs; -Significantly reduce understory conifer density to minimize ladder fuels; -Reduce fine surface fuels (<12.5 cm) and flammable understory vegetation to reduce the risk and expected intensity of surface fire; -Retain and promote regeneration and growth of deciduous tree and shrub species to reduce fire risk and improve wildlife habitat. -Create shaded fuel break conditions to reduce expected wildfire intensities and provide a safer environment for fire fighters to anchor tactical fire suppression actions. The project will take place next fall (2019) after the breeding bird season. This project aligns with the FESBC strategic priorities and society goals and addresses the purpose of reducing wildfire risk. BC Parks anticipates either chipping and hauling the chips away or chipping and spreading the chips on-site to decay or selling the debris material as pulp, artisan or firewood. There is a merchantable component to this treatment and the contractor removing those merchantable stems will be responsible for securing a fair and equitable market as well as paying all stumpage fees (volume calculation attached). The Kootenay Boundary Regional Integrated Investment Specialist, Julie Castonguay is in support of this project and recognizes it is a high priority (Letter of Support attached in Land Manager Sections of this application). A letter of support from the Harrop-Procter Community Forest is also attached in the Partnership Section of this application. This prescription also recommends maintenance requirements and BC Parks intends to ensure each fuelbreak is actively maintained to ensure its effectiveness.</p>
Project Keyword:	est Arm Park Fuel Reduction - Harrop TU6
Attach Additional Information	TU6 volume calc for Rx appendix 12Nov2018.pdf
Is an existing tenure already in place?	No
If no, then please identify the proposed tenures and/or authorities required to complete work.	A Park Use Permit and a Forest/Occupant License to Cut will be required. BC Parks will work with the contractor who is selected via a competitive procurement process to obtain the noted authorizations.
Will your project create a silviculture obligation?	No
If yes, who will hold that obligation?	
Is this project located in the Wildland Urban Interface?	Yes

Project Activities and Objectives

Project Activities	Overstory Removal Fuel Management Treatments Biomass Utilization Thinning Trucking
FESBC Purposes	Wildfire risk reduction/mitigation Wildlife habitat enhancement Rehabilitation of fire damaged or low value stands Recovery of fibre (lumber, pulp, pellets, energy, etc.)
Describe how the project will achieve the specified purpose(s).	Wildfire risk reduction/mitigation: -Help protect West Arm Provincial Park's natural values from high intensity wildfire; -Improve public safety in the Harrop area as well as within West Arm Provincial Park; - Improve the ability of the BC Wildfire Service to protect Park values and private land in the adjacent community; -Enhance natural barriers to reduce the continuity of fuel loads; -Demonstrate the principles and practices of FireSmart and fuel/ vegetation management to local community members and the broader public Wildlife habitat enhancement: -Emulate the pattern of natural disturbances that have historically

	acted upon Park ecosystems; -Provide travel corridors and thermal cover for wildlife -Accelerate succession to mature and older-growth forest structural conditions with generally lower stand densities; - Increase the availability and diversity of wildlife habitat through the restoration of more natural mixed or semi-open forest conditions; -Minimize negative impacts to, and where possible enhance, the many values of the treated forest, including source water protection and forest health. Rehabilitation of fire damaged or low value stand: -Removing a dead pine (721 cubic metres) component of the overstory and utilizing it as pulp Recovery of fibre (lumber, pulp): -There is a merchantable component of this project and it is estimated that 2378 cubic metres will come out and we intend to sell/utilize as much of the understory biomass as possible as pulp, fibre for artisans, or firewood to minimize the amount of burning. Volume calculation is attached in the Project Description section of this application.
Identify the repository for the final deliverables	Ministry of Environment and Climate Change Strategy - BC Parks Kootenay Section, Cranbrook BC
Utilization of Wood Fibre	
If applicable, indicate use of removed fibre or non-burning waste management practices.	During the competitive tendering process for this opportunity BC Parks will ask perspective bidders to secure a market for the understory fibre either as pulp, hog fuel, firewood, artisan or other. If a market cannot be secured chipping will be used as an alternative. Chipping greatly increases the project costs so we will be encouraging and awarding more points in the tendering process if a market can be secured and perspective bidders will be informed of this. Perspective bidders will also need to secure a market for the merchantable overstory timber and pay the required stumpage.
Describe your plan for residual fibre treatment (e.g. burn, or bulldoze/chip/grind and leave to decay).	Treatment specifications in the attached prescription indicate parameters for retaining course and fine fuels. All woody debris outside of these targets must be removed. The intent is to pile and burn or chip and disperse any residual fibre (woody debris) that cannot be utilized.
Will the treatment involve broadcast burning to create plantable spots?	No

Work Standards and Development Status

Applicable Work Standards:	Park Act, BC Parks Tree Removal Policy, BC Parks Conservation Policy, Best Management Practices for Tree Removal in Parks and Protected Areas Planning and Best Management Practices for Tree Removal in Parks and Protected Areas Harvesting Operations and Ministry of Environment's Ventilation Index.
Has a variance to the above listed standards been requested?	No
If yes, please describe the variance request.	
Where government work standards are not available, please upload an auditable workplan. A template can be downloaded in the application template section above.	April 04 - Harvesting.doc April 04 Road Engineering.doc
For reference, Ministry Activity Standards can be located at the following URL: http://www2.gov.bc.ca/gov/content/environment/natural-resource-stewardship/land-based-investment/forests-for-tomorrow . You can also find the link in the Information menu.	
First Nations information Sharing:	Once funding has been confirmed BC Parks will initiate consultation with First Nations to share information and determine if they have any information specific to this treatment area that must be incorporated. BC Parks has consulted with First Nations on the West Arm Park Fire Management Plan and no concerns were expressed or addtional information was shared at that time.
Development Status:	A Park Use Permit as well as an Occupant/Forest License to Cut may be required and will be applied for after funding is in place. Then a contractor will be hired through a competitive procurement process to conduct the treatment and BC Parks will assist that contractor with acquiring the required authorizations.
If available, please upload approved prescriptions and treatment maps for this project.	WAPP Harrop Rx TU6 final draft 27Nov2018.pdf WAP_Unit_6_Presc_Plan_Map_Avenza_2018_11_28.pdf
Will this project (or a part thereof) be tendered?	Yes
If yes, please indicate the % of the project value tendered.	100%
Is your company SAFE certified?	No
If you answered no to the above question, please describe how you will ensure safe working conditions for this project.	The contractor we hire to conduct the work must have the appropriate Commerical General Liability insurance as required by the Government of BC Procurement Policy and must be registered and in good standing with WorkSafe BC and be prepared to act as a Prime Contractor as defined by WorkSafe BC and as described in the Government of BC Prime Contractor Agreement if required.

Are any of the activities a legal obligation of a tenure.	No
If yes, then please explain how the project will manage the obligation separate from FESBC funding.	

Alignment with the Land Manager's Priorities.

For utilization projects submitted under Intake 5a, this section is not required.	
Explain how you have engaged with the appropriate government land manager to understand the Land Manager's priorities.	BC Parks is the Land Manager and the West Arm Park Fire Management Plan identified priority areas for fuelbreak review and treatment. BC Parks has also engaged with Julie Castonguay, Kootenay Boundary Regional Integrated Investment Specialist to understand the regional priorities in terms of wildfire risk reduction (email attached). This project has also been discussed with Mike Morrow, Fuels Management Specialist from BC Wildfire Service.
Describe how the project aligns with the Land Manager's strategic planning and/or integrated investment planning.	BC Parks' mission is to protect representative and special natural places within the Province's protected areas system for world class conservation. This project also aligns with the BC Parks Action Plan for Conservation - Objective 2: Maintain & Restore Ecosystems by managing forest health issues the pose risks both within and outside protected area boundaries. This project also aligns with the BC Parks Strategic Program Plan - Effectively manage natural, cultural and recreational values in the context of the provincial landbase (the larger landscape). This project has been identified as a high priority in the Kootenay Boundary Region Integrated Investment Planning see attached email from Julie Castonguay, Regional Integrated Investment Specialist.
Describe any feedback or concerns from the Land Manager.	
Attach copies of any correspondence from the Forest District.	2019 FES Application Support from Julie Castonguay.docx

Partnerships

Will this project be receiving funds from another organization?	No
If yes, summarize any contributions from other funding sources, including in-kind contributions.	At this point no funding from other sources has been identified, however BC Parks has been working extensively with the Regional District of Central Kootenay (RDCK), City of Nelson and the Harrop-Procter Community Forest to prioritize treatments from each agencies prospective plans to identify where we can work together to share and pool resources. If funding becomes available for this project through these partnerships FESBC will be notified immediately. BC Parks, the RDCK and the City of Nelson have been working on a Communication Plan with the RDCK Communications Coordinator to keep the public informed on how we are working together and where we are conducting treatment. We have held several public meetings to seek input on plan and prescription development and now we need to ensure the public remains informed on the implementation phase. I have added a request for an additional \$10,000 (Annual Budget - Administration section) on this application to contribute to the cost of the Communication Plan development.
If applicable, describe how the project will coordinate with FFT or other initiatives within the Timber Supply Area.	
Describe any partnerships with another organization or agency?	BC Parks has been working extensively with the Regional District of Central Kootenay and the City of Nelson to determine priorities for treatments based on the recent Area E and F and City CWPP updates and the 2017 West Arm Park Fire Management Plan. This working group is hoping to share and pool resources in areas where treatments will align with agency goals regardless of jurisdictional boundaries. BC Parks has also been engaged with the Harrop-Procter Community Forest to determine where we can work together to pool resources. Letter of support attached from the Harrop-Procter Community Co-operative. On the Nelson side of West Arm Park at TU5 (FES funded) BC Parks has formed a partnership with Anderson Creek Timber as well as the Svoboda Road Residents to effectively conduct treatment there that benefits all parties involved as well as the City of Nelson. That treatment will be taking place in the fall of 2019.
Please upload any correspondence or supporting documentation.	HPCC letter of support WAP FES Nov2018.pdf
Is this a First Nations Organization?	No
Indicate if this proposal is being submitted on behalf of another organization. If so,	This proposal is NOT being submitted on behalf of another organization.

then identify the organization and the proposed role of each organization for implementing the project.	
Indicate if the intended delivery of the project(s) will involve one or more other organizations. If so, then identify the organization(s) and the proposed role of each organization for implementing the project.	Currently, BC Parks will solely be delivering/implementing this project.

Road Construction and Road Upgrades

Road Construction, including Road Upgrades	
Planned Road Construction Length (km)	1km
Planned Road Construction Width (m; if >20m)	12m road prism, which includes 5m running surface
Biomass removed and burned from ROW (tonnes)	0
Road Deactivation	
Will the road be reforested following deactivation?	No
Planned Road Deactivation Length (km)	0
Planned Road Construction Width (m)	12m road prism, which includes 5m running surface
Please attach road development plan/ deactivation plan/ planting prescriptions	

Summary Report Attachments

Summary Reports	
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Project Cost And Funding

Total Project Funds

Total Funds Contributed by the Proponent	Total Funds Requested from the Program
\$0.00	\$198000.00

Planned milestone & task

	2019/20	Total
Output Category		
Treatment Area (ha)	198000.00	198,000.00

Funds Requested from FESBC

	2019/20	Total
Start Date	09/16/2019	
End Date	03/31/2020	
Cost Category		
Material	\$0.00	\$0.00
Recipient Labour	\$0.00	\$0.00
Contracted Material/ Labour	\$168000.00	\$168,000.00
Equipment Charges	\$0.00	\$0.00
Project Supervision/ QA	\$20000.00	\$20,000.00

Administration	\$10000.00	\$10,000.00
Total	\$198,000.00	\$198,000.00

Sources of Cash Funding ^{*}

Source Type	Name of Organization	Status	Amount
Amount Applied For	FESBC	Applied For	\$198,000.00
		Total:	\$198,000.00

Project Cost by Task

Activity [*]	Start Date	End Date	Funds Requested from FESBC	Funds contributed by Applicant	Funds from Other Sources	Total
Overstory Removal	09/16/2019	03/31/2020	\$128,000.00	\$0.00	\$0.00	\$128,000.00
Fuel Management Treatment	09/16/2019	03/31/2020	\$70,000.00	\$0.00	\$0.00	\$70,000.00
					Total:	\$198,000.00

Project Status

Project Status

FP status:	FP Received
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Change History

Change History

Change History

FP Status	User	Date
Draft FP	Amanda Weber-Roy	11/27/2018 06:21:10 PM
Draft FP	Amanda Weber-Roy	11/27/2018 06:26:21 PM
Draft FP	Amanda Weber-Roy	11/27/2018 06:30:55 PM
Draft FP	Amanda Weber-Roy	11/27/2018 06:41:02 PM
Draft FP	Amanda Weber-Roy	11/27/2018 06:46:02 PM
Draft FP	Amanda Weber-Roy	11/27/2018 07:25:12 PM
Draft FP	Amanda Weber-Roy	11/29/2018 12:15:07 PM
Draft FP	Amanda Weber-Roy	11/29/2018 12:36:31 PM
Draft FP	Amanda Weber-Roy	11/29/2018 12:48:17 PM
Draft FP	Amanda Weber-Roy	11/29/2018 12:48:24 PM
Draft FP	Amanda Weber-Roy	11/29/2018 12:48:26 PM
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Draft FP	Amanda Weber-Roy	11/29/2018 10:30:59 PM
FP Submitted	Amanda Weber-Roy	11/29/2018 10:31:22 PM