Full Proposal

Full Proposal Details

Full Proposal # :WR0000530

Full Proposal Status : FP Received

Project Information

Terms and Conditions

To review the terms and conditions click here

Project Information

Project Title:	Jewel Lake Fuel Mitigation Project
Primary Purpose:	Wildfire Risk Reduction
Project Start Date	01/01/2019
Project Completion Date	03/31/2020

Project Country:	Canada
Project Location - State/Province:	British Columbia
Postal Code	V0H1H9

Contact Information

Principal Contact Information

Principal Contact Name:	Dan Macmaster
Country	Canada
Province	British Columbia
Contact Email	dmacmaster@vaagen.ca
Contact Address	661 8th Avenue

City	Midway
Postal Code	V0H 1M0
Proponent's Organization	West Boundary Community Forest
Contact Phone	250-528-0344

Project Details

Project Description

Full Proposal Number	WR0000530
Full Proposal Upload (PDF)	
Region	Kootenay Boundary Region
Resource District	Selkirk District
Management Unit:	Community Forest
Project Site Location:	Jewel Lake is located northeast of Greenwood. From the City of Greenwood, travel 3.4km east on Hwy #3 and turn left on Boundary Creek Road. In 1km turn right onto Jewel Lake Road. Travel 9.4km to the residential area of Jewel Lake. The West Boundary Community Forest is an area-based tenure that holds the management responsibilities on the northern and southern slopes of Jewel Lake.
UTM Zone	11U
UTM Easting	383031
UTM Northing	5448172
Location Map and Spatial Data File Attachment	Jewel Lake Project Overview Map.pdf Jewel Lake Project KMZs.kmz
BEC Variant(s):	ICH mk1
Project Description:	Jewel Lake is a popular recreational area for tourists and local residents alike. This area attracts thousands of campers, boaters, fishermen, and cottagers every year to the Provincial campground and Jewel Lake Resort. Many permanent residents residing in single detached homes reside year-round here as well. The West Boundary Community Forest is an area-based tenure that is located on the north and south facing slopes of this lake valley. The project area is a semi-dry Douglas Fir, Lodgepole pine, and Western Larch forest with an abundance of downed fuels. Small diametre coarse woody debris, dead standing, snags, ladder fuels, dead branches on trees and a thick needle layer on the forest floor has classified this area by the South East Fire Centre as a high risk, fire susceptible ecosystem. This fuel loading has accumulated over the years due to fire suppression activities in combination with absence of forestry practices and is

	now posing a high risk to the area. Only one road (Jewel Lake Road) allows access in to and out of this residential and recreational area and will pose catastrophic problems to the residents and visitors if a fire were to break out. The project will take place on two, 30 hectare areas of community forest land on the north and south slopes of the lake valley. This fire risk reduction and fiber utilization project will remove the large amount of blowdown, deadfall, and litter accumulation that currently exists on the southern shore, 300m upslope of both sides of the valley, and will leave behind an ecologically restored area that will reflect a stand as though it has experienced the progression of natural disturbance type 4. Large diameter, fire resistant single stems will be retained on site as well as wildlife tree retention areas. The residents of Jewel Lake have long been resistent to any industrial harvesting or work being done in their natural, pristine area. This has lead to fuel load issues and put the area in a risky position if a fire were to occur. On Saturday, September 29th I held a meeting in Greenwood for all the residents of Jewel Lake to engage and work with them on this plan of how to mitigate the risk of wildfire in the Jewel Lake valley. I also included officials from the Southeast Fire Center to present information on wildfires and proactive techniques we can use to reduce the risk of a catastrophic fire. This discussion with the local residents was met with overwhelming support to move forward with a fuel mitigation plan. A field trip to the site was done on October 27th and another site visit to obtain more input from residents is scheduled for December 16th. I will be presenting this project proposal to all community members in western Boundary on Wednesday, December 5th in a region-wide information meeting in Greenwood. The community, along with the SE Fire Centre officials will be consulted during all phases of this project. The Osoyoos Indian Band has agreed to perform a Professional Field Review of the site with me to ensure that this project does not affect any culturally significant areas along the lakeshore. The Band has offered their full support for this project and will provide a Band member to assist in the building of an access road and any trailing required to remove the fibre. All phases of this project will be completed by local contractors. The West Boundary Community Forest employs 100% of their contractors from the rural communities of the Boundary and injects revenue into the local economy. After the fibre removal is completed and the roads have been deactivated and rehabbed, we will be developing interpretive hiking trails through the treatment sites with informative signage and benches. This will allow us to tell the story of fuel mitigation and fire risk management to new and existing residents, and visitors and recreationalists that visit the Jewel Lake valley.
Project Keyword:	Jewel Lake Fire Risk Reduction
Attach Additional Information	Jewel Lake Project Costs.pdf
Is an existing tenure already in place?	Yes
If no, then please identify the proposed tenures and/or authorities required to complete work.	West Boundary Community Forest (K4E)
Will your project create a silviculture obligation?	No
If yes, who will hold that obligation?	
Is this project located in the Wildland Urban Interface?	No

Project Activities and Objectives

Project Activities	Planning Prescriptions Harvesting Development Road and Landing Rehab Fuel Management Treatments Biomass Utilization Thinning Trucking
FESBC Purposes	Wildfire risk reduction/mitigation Recovery of fibre (lumber, pulp, pellets, energy, etc.)
Describe how the project will achieve the specified purpose(s).	Wildfire Risk Reduction/Mitigation and Recovery of Fibre (lumber, pulp). The principles supporting fire risk reduction will be combined with fuel management objectives in developing the prescription for the project area. There will be the removal of the understory and ladder fuels (predominately lodgepole pine and suppressed fir), retention of all Douglas Fir and Larch trees over 25cm dbh, mechanical piling and burning of any fibre that cannot be safely removed from the site via truck, and constructed roads, skid trails and landings will be temporary and rehabilitated post harvest. An interpretive hiking trail will be established for the public to learn about the project, as well as provide future access to emergency services.
Identify the repository for the final deliverables	RESULTS
Utilization of Wood Fibre	
If applicable, indicate use of removed fibre or non-burning waste management practices.	Fibre removed from the project area will be hauled to the Midway chipper yard (Celgar). Any understory removed that would be suitable sawlog fibre will be hauled to a local mill.
Describe your plan for residual fibre	Any short stems or limbs that cannot be safely transported via logging truck will be scattered throughout

treatment (e.g. burn, or bulldoze/chip/grind and leave to decay).	the site at a low denisty so as not to accumulate ground fuel. This volume will be relatively small considering the efforts made to haul the fibre out. In the case where the logging brush cannot be hauled and is too thick to spread out, a burn pile will be made and disposed of in the Fall.
Will the treatment involve broadcast burning to create plantable spots?	No

Work Standards and Development Status

Applicable Work Standards:	This project will be following the guidelines and regulations of the Forest and Range Practices Act (FRPA) as well as the Forest Planning and Practices Regulations (FPPR). All contractors will be SAFE Certified under the BC Forest Safety Council. General standards for Ministry Funded Programs (effective June, 2012) will be followed. RESULTS Information Submission Specifications - Government Funded Silviculture Activities (Edition 4a, May 2014) will be adhered to and completed as well.
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.	
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:	Consultation with First Nation Bands will occur during the intital planning stages of this project. A letter is sent to all the Bands as well as a map and outline of the project. Bands are given 60 days to provide feedback. A Professional Field Review has already been set up with the Osoyoos Indian Band to walk the site and develop a report on any culturally significant sites in the project area. I will be attending this visit representing the WBCF.
Development Status:	Consultation will be sent to FN Bands, range holders, local residents, trappers, guides, and adjacent licencees. A cutting permit and road permit will be approved by the Ministry prior to any work starting.
If available, please upload approved prescriptions and treatment maps for this project.	
Will this project (or a part thereof) be tendered?	No
If yes, please indicate the % of the project value tendered.	
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 West Boundary Community Forest has a management agreement with Vaagen Fibre Canada. The Forestry Department at Vaagen is SAFE certified and all contractors that work on WBCF projects area SAFE certified as well.
Are any of the activities a legal obligation of a tenure.	Yes
If yes, then please explain how the project will manage the obligation separate from FESBC funding.	There will not be any silviculture obligations as no openings over 1ha will be created. Any roads will be rehabbed or developed into an interpretive hiking trail. A site plan will be developed and data entered into RESULTS once the project is completed. Any obligatory work to meet the requirements needed for a cutting or road permit will not be included in the FESBC funding requests.

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.	This project is consistent with the Land Manager's objectives. This project is also consistent with local Land Manager priorities as it supports the objectives of the Kootenay Boundary Land Use Plan, Provincial Ecosystem Restoration Program, LBIS – Ecosystem Restoration Focus, the Boundary Restoration and Enhancement Program 5-Year Plan and West Kootenay Mule Deer Management Plan. Fuel mitigation projects help to create landscapes that are more resilient to

	wildfire while also providing sustainable goods and services that include: • reducing excessive fuel loads and continuity to mitigate catastrophic wildfire risks; • improving air quality by managing emissions through utilizing residuals and/or other treatments as opposed to emissions resulting from a wildfire potentially occurring during less favourable atmospheric conditions; • helping to mitigate mid-term timber supply shortfalls by accessing marginal stands; • improving long-term timber harvest values by spacing over dense, stagnated stands while also providing a potential bio-energy source; • increasing natural forage to sustain wildlife and livestock and their related industries. This area was selected for consideration based on direction from the above-mentioned plans as well as fire risk mapping provided by the Southeast Fire Centre officials, Fire Management Planning, ungulate winter range and species at risk information, and in consultation with and support from local residents and the Jewel Lake Environmental Protection Society.
Describe how the project aligns with the Land Manager's strategic planning and/or integrated investment planning.	The objectives of the West Boundary Community Forest and this proposed project was discussed with the land manager at a meeting in October, 2018. Some of the overarching objectives discussed and agreed upon include: 1. Provide long-term opportunities for achieving a range of community objectives, values and priorities. The community will receive long-term benefits from gaining community control over management of forests in areas such as Jewel Lake (high social and environmental values). WBCF will work to foster co-operation among stakeholders and to take a leadership role in forest management that combines ecological protection, community consultation and orderly development. 2. Diversify the use of and benefits derived from the community forest agreement area. WBCF will encourage economic diversification by providing access to fibre supplies to local small scale manufacturers and processors. This project will provide pulp fibre to the Midway Celgar yard and sawlogs to both Vaagen Fibre Canada and Interfor. Community safety will be improved through the use of fuel management in the areas identified at a risk of catastrophic fire. 3. Provide social and economic benefits to the region. The employment created by projects in the West Boundary Community Forest will generate income throughout the community and improve the tax revenue and stumpage payable to the Crown. The additional job opportunities will improve the social outlook for the residents of the West Boundary. 4. Undertake community forestry consistent with sound principles of environmental stewardship that reflect a broad spectrum of values. This project in particular will manage the forest to retain and maintain structure and composition within the range of natural variation, thereby maintaining a fully functioning ecosystem over time. 5. Promote community involvement and participation. WBCF will promote community involvement and participation in forest management planning by engaging the community in planning and development of forestry operations (in all projects including the Jewel Lake Fire Risk Reduction proposal). This will be accomplished through public meetings and field trips, by valuing local knowledge and by listening to and respecting community input. 6. Promote communication and strengthen relationships between Aboriginal and non-Aboriginal communities and persons. WBCF has promoted communication and strengthened relationships between First Nations by rigorously following the information sharing process mandated by the Ministry, performed consultation duties well above what is expected from other licencees, as well as providing employment opportunities to qualified Band members. 7. Advocate forest worker safety. The management department (Vaagen Fibre Canada) is SAFE Certified and requires that all contractors are certified who work in the WBCF.
Describe any feedback or concerns from the Land Manager.	Feedback on the Fire Risk Reduction proposals is very positive. There has been a request for Vaagen Fibre Canada and the West Boundary Community Forest to lead the development of projects outside the WBCF tenure and throughout the Boundary TSA. Numerous areas are not being

	addressed by the major tenure holders in regards to fuel mitigation, fire risk reduction, and fibre utilization in the forest.
Attach copies of any correspondence from the Forest District.	

Partnerships

Will this project be receiving funds from another organization?	No
If yes, summarize any contributions from other funding sources, including in-kind contributions.	
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?	As mentioned earlier, the Osoyoos Indian Band will be performing an onsite Professional Field Review of the site and has expressed their support for this project. The Jewel Lake Environmental Protection Society is aware of this project and has expressed their support as well. Frequent discussion and sharing of plans with local residents and the JLEPS will be scheduled.
Please upload any correspondence or supporting documentation.	Correspondence with JLEPS.pdf
Is this a First Nations Organization?	No
Indicate if this proposal is being submitted on behalf of another organization. If so, then identify the organization and the proposed role of each organization for implementing the project.	No. Submitted by the West Boundary Community Forest.
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.	No.

Road Construction and Road Upgrades

Road Construction, including Road Upgrades	
Planned Road Construction Length (km)	1.3
Planned Road Construction Width (m; if >20m)	5
Biomass removed and burned from ROW (tonnes)	200
Road Deactivation	
Will the road be reforested following deactivation?	No
Planned Road Deactivation Length (km)	1.3
Planned Road Construction Width (m)	5
Please attach road development plan/ deactivation plan/ planting prescriptions	

Summary Report Attachments

Summary Reports	

Project Cost And Funding

Total Project Funds

Total Funds Contributed by the Proponent	Total Funds Requested from the Program
$0.00	$104100.00

Planned milestone & task

	2018/19	Total
Output Category		
Biomass Utilized, Not Burnt (m3)	1200.00	**1,200.00**
Treatment Area (ha)	60.00	**60.00**

Funds Requested from FESBC

	2018/19	Total
Start Date	04/01/2019	
End Date	03/31/2020	
Cost Category		
Material	$3500.00	**$3,500.00**
Recipient Labour	$16200.00	**$16,200.00**
Contracted Material/ Labour	$42700.00	**$42,700.00**
Equipment Charges	$32700.00	**$32,700.00**
Project Supervision/ QA	$5000.00	**$5,000.00**
Administration	$4000.00	**$4,000.00**
Total	$104,100.00	**$104,100.00**

Sources of Cash Funding *

Source Type	Name of Organization	Status	Amount
Proponent Contribution	West Boundary Community Forest	Confirmed	$41,000.00
Amount Applied For	FESBC	Applied For	$104,100.00
		Total:	**$145,100.00**

Project Cost by Task

Activity *	Start Date	End Date	Funds Requested from FESBC	Funds contributed by Applicant	Funds from Other Sources	Total
Planning & Layout	04/01/2019	05/31/2019	$27,300.00	$0.00	$0.00	$27,300.00
Roads & Trailing	09/01/2019	09/30/2019	$15,800.00	$0.00	$0.00	$15,800.00
Fuel Fibre Removal	10/01/2019	11/30/2019	$49,800.00	$41,000.00	$0.00	$90,800.00
Road Deactivation & Trail Development	12/01/2019	03/31/2020	$11,200.00	$0.00	$0.00	$11,200.00
					Total:	**$145,100.00**

Project Status

Project Status

FP status:	FP Received

Change History

Change History

Change History

FP Status	User	Date
Draft FP	Dan Macmaster	11/22/2018 11:02:43 PM
Draft FP	Dan Macmaster	11/28/2018 12:23:25 AM
Draft FP	Dan Macmaster	11/28/2018 12:28:30 AM
Draft FP	Dan Macmaster	11/28/2018 12:33:11 AM
Draft FP	Dan Macmaster	11/28/2018 12:38:18 AM
Draft FP	Dan Macmaster	11/28/2018 12:43:18 AM
Draft FP	Dan Macmaster	11/28/2018 01:03:18 AM
Draft FP	Dan Macmaster	11/28/2018 01:06:12 AM
Draft FP	Dan Macmaster	11/28/2018 01:11:19 AM
Draft FP	Dan Macmaster	11/28/2018 01:13:01 AM
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FP Submitted	Dan Macmaster	12/01/2018 12:13:40 AM