



Land Stewardship Grants

Approved Project Plans
2017-20 Funding Cycle

Introduction

In 2008, the Habitat Conservation Trust Foundation (HCTF) was awarded a \$9M endowment contribution from the Province of British Columbia to fund operations and maintenance activities on Conservation Lands. \$3M of the endowment was allocated for activities on private lands managed by non-profit organizations. The first intake of this program occurred in late 2016 and 12 grants were awarded to be used from April 2017 to March 2020. More information about this grant program is available [here](#). This document provides copies of the project plans approved for funding including the original Letter of Intent and subsequent Full Proposal including the three-year intended project outcomes. The following table lists all approved projects included in the following document.

2017-20 Approved Land Stewardship Projects

Project #	Project Name	Organization	HCTF Approved Amount
1-647	Martha Warde Property	Nanaimo Area Land Trust	\$2,500
1-648	Parnassian Woods	Nanaimo Area Land Trust	\$3,500
1-649	Blackburn Nature Reserve	Salt Spring Island Conservancy	\$41,000
1-650	Cowichan Garry Oak Preserve	The Nature Conservancy of Canada	\$20,280
1-678	Settlement Lands	Denman Conservancy Association	\$19,500
2-605	Windebank	Fraser Valley Conservancy	\$38,000
2-606	Grauer Wetlands ¹	Ducks Unlimited Canada	\$20,650
4-548	Elk Valley Heritage Conservation Area	The Nature Conservancy of Canada	\$30,476
4-549	Dutch Creek Hoodoos	The Nature Conservancy of Canada	\$16,000
5-288	Elkin Ck Nature Preserve	Valhalla Foundation for Ecology	\$35,000
5-289	Scout Island	Williams Lake Field Naturalists	\$36,300
8-414	Quintal Floodplain	Ducks Unlimited Canada	\$45,000
			\$308,206

¹ This grant was awarded in 2018 for use over two years only (2018-20).

1-647

Martha Warde Property



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name				Nanaimo & Area Land Trust			
Is your organization a registered Society?				Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>	
• If yes, please provide your Society No.				S-33510			
• When was your organization legally incorporated?				April 19 th , 1995			
Is your organization a registered charity in good standing with the CRA?				Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.				893193771 RR0001			
Address		8 – 140 Wallace Street					
		Nanaimo, BC. V9R 2X9					
		City		Prov		Postal Code	
Email	admin@nalt.bc.ca		Organization Website	www.nalt.bc.ca			
Phone	250-714-1990			Fax	250-714-1990		

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Martha Warde Property

PID Number(s): _____

Region (see [map](#)) Vancouver Island

Geographic Coordinates: 49.414370, -124.638484

Property Size (HA) 8.9HA

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? Since 2014

If no*, please name the NGO who has fee simple ownership of the property: _____

*Note: You must include a letter from the NGO property owner stating they support this application. _____

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

The property is situated in the Coastal Douglas-fir moist maritime biogeoclimatic zone (CDFmm). Older second growth, mixed -forest ecosystem, at the eastern edge of the property: flat woodland made up of primarily Douglas-fir, Big leaf maple, Red Alder, Western Red cedar with understory dominated by Sword fern, salal, trailing blackberry, red huckleberry, and an assortment of other species. The surface substrate is composed of numerous logs, decaying wood and organic matter which makes the terrain hummocky.

Second and tertiary mixed forest ecosystem, to the west of the residential-agricultural area: the vegetation consists of principally: Douglas fir, Western red cedar, hemlock, grand fir, and alder, and a dense understory (reaching to 8- 10 ft high in some areas) of salal, huckleberry, Oregon grape, trailing blackberry, sword ferns, and ocean spray, amongst numerous downed trees. There are numerous wildlife trees and evidence of bears and deer.

Nash Creek, which runs through the SW corner, has been designated a sensitive riparian ecosystem (RI:5:3) in the British Columbia Sensitive Ecosystems Inventory (McPhee, *et al.*, 2000: Cdf map). The creek supports Coho and Chum salmon, and cutthroat and rainbow trout.

3. Guiding Documents:

Cdf Assessment for Nanaimo & Area Land Trust, Martha Warde Property. E. Barnewall 2013

Voluntary Stewardship Agreement, Martha Warde Property. Martha Warde Estate and the Nanaimo & Area Land Trust. 2011

4. Community Engagement/ Access

On the Martha Warde Property there is a small residence and area (approximately 0.4HA). The citing of this private residence precludes access from Island Highway North. The westernmost area of the property is separated from the Regional District of Nanaimo's Lighthouse Regional Trail by an active railway line. Possible future installation of a proper pedestrian rail crossing and tying in some features of the property with the trail may result in improved access and opportunities for community involvement in habitat restoration and enhancement projects.

5. Proposed Land Management Activities:

The funding provided by HCTF would be used to cover the cost of producing a management plan for the property

6. Amount Requested from HCTF:

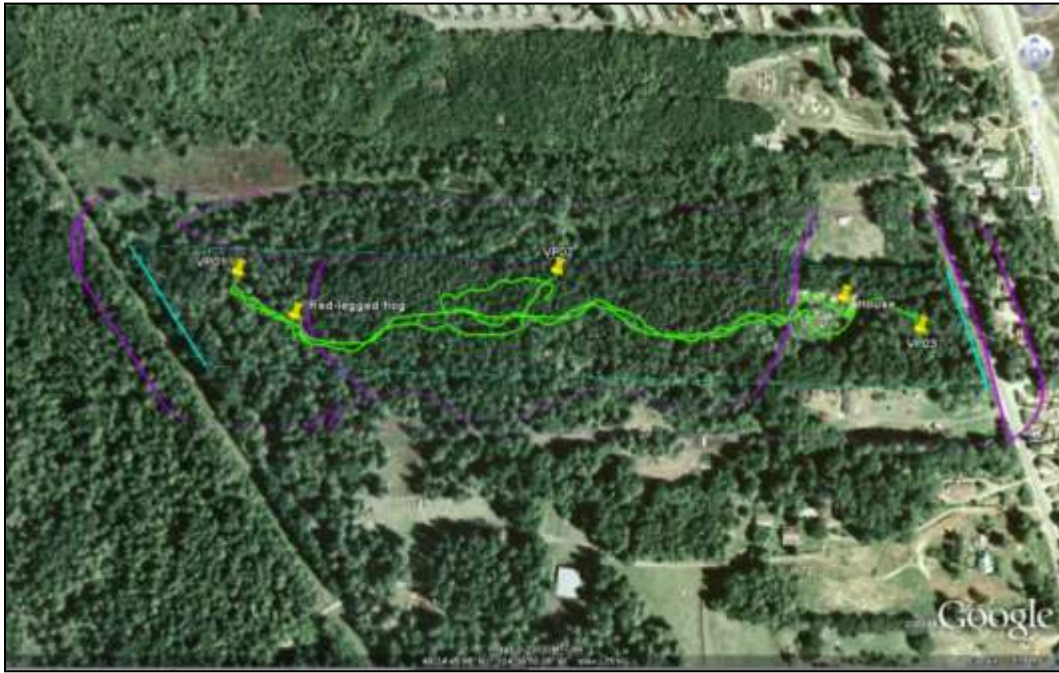
Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>2,500</u>
Year 2	<u>0</u>
Year 3	<u>0</u>
Total	<u>2,500</u>

7. Project Partners:

N/A

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020Project #:1-647

PROPERTY INFORMATION

Property Name:Martha Warde Property

Former Property Names, if applicable:

Region:Vancouver Island

PROPONENT INFORMATION

Project Leader:Paul Chapman

Organization Name:Nanaimo & Area Land Trust

Address:#8 - 140 Wallace Street

City:Nanaimo

Province:British Columbia

Postal Code:V9R 5B1

Email:Volunteer@nalt.bc.ca

Phone:250-714-1990Fax:250-714-1990

ADDITIONAL CONTACT:

Name:Gail AdrienneOrganization:Nanaimo & Area Land Trust

Email:gail@nalt.bc.caPhone:250-714-1990

Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
Martha Warde Property			To target organizational resources to steward a 22 - acre property that features significant coastal Douglas fir habitat and riparian values, including control of invasive species, and habitat restoration and enhancement where needed.	To complete an inventory of natural features of the land, with emphasis on a management plan for rare and at-risk plant and animal communities, and invasive species.	By December 2017, to have a management plan for the natural values of the property that will direct future stewardship actions on the land.	Contract a qualified habitat biologist to produce a management plan for the natural values of the property.
			To allocate funds raised on the property for the maintenance of built ammenities and funding of on-site stewardship projects.	To combine resources outlined in the financial plan with the land stewardship activities identified in the management plan.	To begin undertaking, and possibly completing some components of habitat restoration and enhancement projects, as prioritized in the management plan.	Allocate funds to carry out activities identified in the management plan.
Property Vision and/or Overall Management Goals for the Property: 1) To steward the land to protect existing natural values, and to restore and enhance habitat where recommended. 2) To continue discussions with the Regional District of Nanaimo, with a goal to link a corridor through the property with the Lighthouse Regional Trail to promote the natural values of the coastal Douglas fir biogeoclimatic zone. 3)To foster opportunities for self-funded land management activities. 4) To continue discussions with the Agricultural Land Commission to place a conservation covenant on title of this property within the Agricultural Land Reserve.						
CAPITAL ASSETS						
ITEM	PURPOSE	TOTAL				
Total:	\$2,500.00					
Admin Fee %	0%					
Admin Fee \$	\$0.00					
3 Yr Total incl Admin Fee:	\$2,500.00					

1-648

Parnassian Woods



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Nanaimo & Area Land Trust		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-33510		
• When was your organization legally incorporated?	April 19 th , 1995		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	893193771 RR0001		
Address	8 – 140 Wallace Street		
	Nanaimo, BC. V9R 2X9		
	City	Prov	Postal Code
Email	admin@nalt.bc.ca	Organization Website	www.nalt.bc.ca
Phone	250-714-1990	Fax	250-714-1990

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Parnassian Woods

PID Number(s):

Region (see [map](#)) Vancouver Island

Geographic Coordinates: 49.062073, -123.900187

Property Size (HA) 16.19HA

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? Since 2015

If no*, please name the NGO who has fee simple ownership of the property:

**Note: You must include a letter from the NGO property owner stating they support this application.*

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

Although some of this property is used for a private residence and agriculture (a native plant nursery), the preponderance, 12.14HA is forested area within the Coastal Douglas-fir moist maritime biogeoclimatic zone (CDFmm). It consists of Older Second growth-mixed forest, Riparian, and Terrestrial Herbaceous ecosystems.

Older second growth forest is an important ecosystem because of its biodiversity values. It can support a broad range of forest-dependent wildlife species. Stumps, downed logs, burned snags, and remnant (veteran) trees from the previous forest are nodes of higher diversity. Wildlife diversity is higher in mixed stands with Red alder or Bigleaf maple. Species such as black-tailed deer and black bears use older second growth forests for a large portion of their life cycles.

B.C. red-listed Peregrine Falcon, Northern Goshawk, and Vancouver Island Water shrew, as well as B.C. Blue-listed Hutton's Vireo have been sighted in the forested part of the property.

The southern half of the riparian area has been designated a sensitive riparian ecosystem (RI:5:3) in the British Columbia Sensitive Ecosystems Inventory.

Ecosystems identified in the Sensitive Ecosystems Inventory are often the remnants of the natural ecosystems that once occupied a much larger area. As human activities change an increasing portion of the landscape, these remnant ecosystems become increasingly valuable as a piece of living history and the conservation of biodiversity. (B.C. Ministry of Environment, SEI website)

Riparian ecosystems, in particular, have a high biodiversity: they support a disproportionately higher number of wildlife species vascular plants, moss, invertebrate and small mammal species- - for the area they occupy compared to all other sensitive ecosystems.

The riparian ecosystem on the property hosts the B.C. Blue-listed Red-legged frog and the Great Blue Heron.

Terrestrial herbaceous ecosystems are open wildflower meadows and grassy hilltops. These ecosystems are rare in the British Columbia Sensitive Ecosystem Inventory study area. The juxtaposition of these ecosystems with older second growth forest ecosystems increases species richness of these sites.

3. Guiding Documents:

Baseline inventory Report, Van Kerkoerle Property. Nanaimo & Area Land Trust

Voluntary Stewardship Agreement, The Parnassian Woods. Anneke and Peter Van Kerkoerle and the Nanaimo & Area Land Trust.

Life Estate Agreement. Anneke and Peter Van Kerkoerle and the Nanaimo & Area Land Trust.

4. Community Engagement/ Access

The NALT Natural Abundance Native Plant Nursery is located on the property. This relies on year-round volunteer labour. In 2015, volunteers donated 1,350 hours to nursery operations and events. Trails are maintained through the forested areas and occasional guided plant identification walks are offered. If suggested by the management plan, possible future habitat restoration and enhancement will involve sizable volunteer and in-kind components.

5. Proposed Land Management Activities:

The funding provided by HCTF would be used to cover the cost of producing a management plan for the property.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>3,500</u>
Year 2	<u>0</u>
Year 3	<u>0</u>

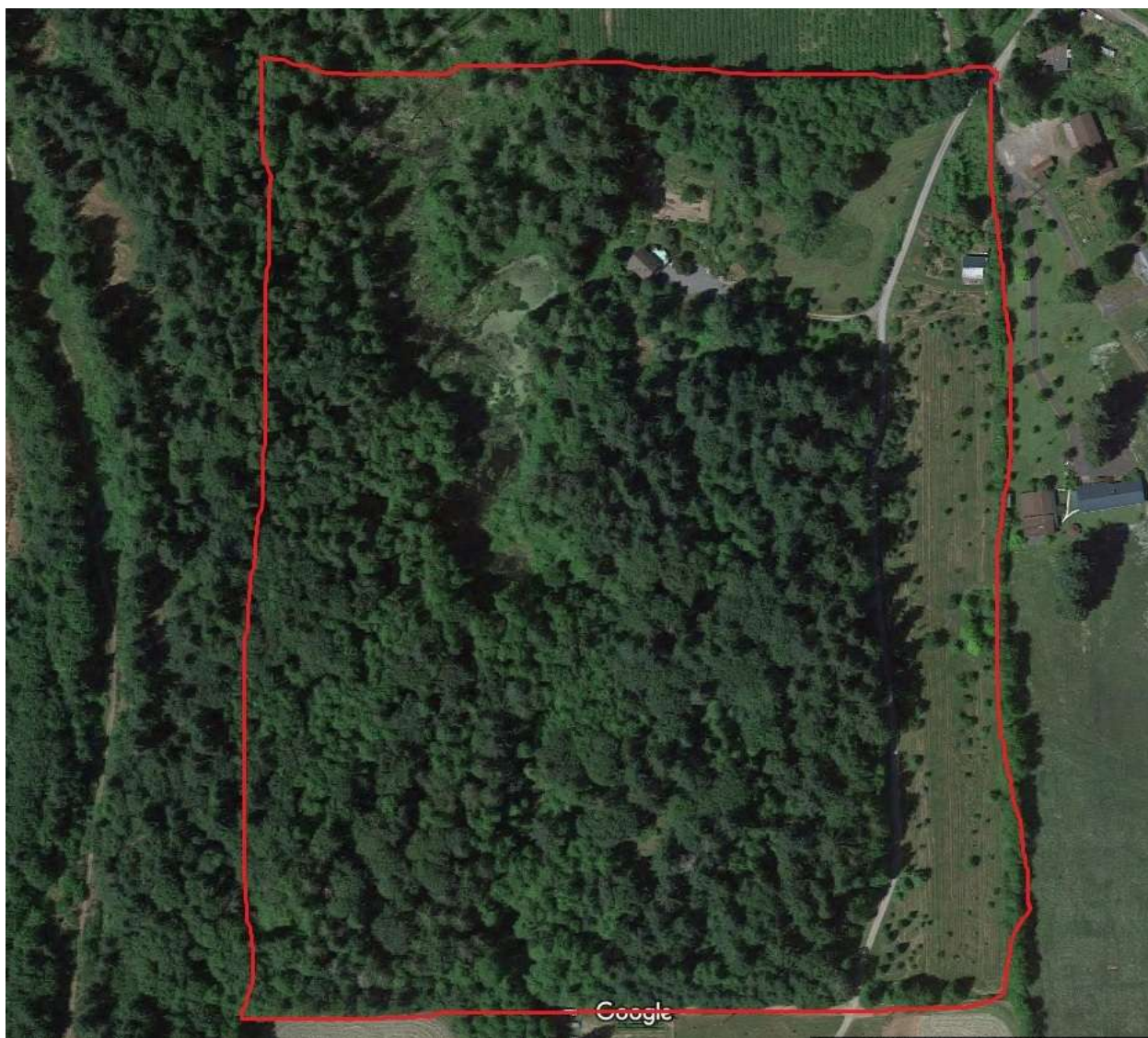
3,500

7. Project Partners:

N/A

8. Property/Complex Map





Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020Project #:1-648

PROPERTY INFORMATION

Property Name:Parnassian Woods

Former Property Names, if applicable:

Region:Vancouver Island

PROPONENT INFORMATION

Project Leader:Paul Chapman

Organization Name:Nanaimo & Area Land Trust

Address:#8 - 140 Wallace Street

City:Nanaimo

Province:British Columbia

Postal Code:V9R 5B1

Email:volunteer@nalt.bc.ca

Phone:250-714-1990Fax:250-714-1990

ADDITIONAL CONTACT:

Name:Gail AdrienneOrganization:Nanaimo & Area Land Trust

Email:gail@nalt.bc.caPhone:250-714-1990

HCTF Land Stewardship Grant Proposal 2017-2020



Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities																																									
<div>Parnassian Woods</div> <div>Property Vision and/or Overall Management Goals for the Property: To steward the land to protect existing natural values and to restore or enhance habitat where recommended. To promote the natural values of the land through a native plant nursery, workshops, guided walks and special events. To create opportunities for self-funded nursery and land management activities. To continue discussions with the Agricultural Land Commission about the possibility of placing a conservation covenant on title of this property that is designated Agricultural Land Reserve (ALR).</div> <table><tr><th colspan="2">CAPITAL ASSETS</th></tr><tr><th>ITEM</th><th>PURPOSE</th><th>TOTAL</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>Total:</td><td>\$3,500.00</td><td></td></tr><tr><td>Admin Fee %</td><td>0%</td><td></td></tr><tr><td>Admin Fee \$</td><td>\$0.00</td><td></td></tr><tr><td>3 Yr Total incl Admin Fee:</td><td>\$3,500.00</td><td></td></tr></table>			CAPITAL ASSETS		ITEM	PURPOSE	TOTAL																									Total:	\$3,500.00		Admin Fee %	0%		Admin Fee \$	\$0.00		3 Yr Total incl Admin Fee:	\$3,500.00		<div>To target organizational resources to steward a 40-acre property that contains significant coastal Douglas fir and riparian values-- including control of invasive species, and habitat restoration and enhancement where needed.</div>	<div>To inventory the natural features of the land, with an emphasis on rare and at-risk plant and animal communities; and to identify locals of invasive species.</div>	<div>By the end of 2017, to have a management plan for the natural values of the property directing our stewardship of the land.</div>	<div>Contract with a qualified habitat biologist to produce a baseline study and management plan for maintaing and enhancing the natural values of the property.</div>
			CAPITAL ASSETS																																												
			ITEM	PURPOSE	TOTAL																																										
Total:	\$3,500.00																																														
Admin Fee %	0%																																														
Admin Fee \$	\$0.00																																														
3 Yr Total incl Admin Fee:	\$3,500.00																																														

1-649

Blackburn Lake Nature Reserve



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Salt Spring Island Conservancy (SSIC)		
Is your organization a registered Society?	Yes X	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-32945		
• When was your organization legally incorporated?	December, 19, 1994		
Is your organization a registered charity in good standing with the CRA?	Yes X	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	89006-3977-RR0001		
Address	PO Box 722		
	Salt Spring Island	BC	V8K2W3
	City	Prov	Postal Code
Email	laura@saltspringconservancy.ca	Organization Website	www.saltspringconservancy.ca
Phone	250-538-0318	Fax	250-538-0319

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Blackburn Lake Nature Reserve

PID Number(s): 003-958-710; 003-047-075

Region (see [map](#)) 1-Vancouver Island (Salt Spring Island)

Geographic Coordinates: 464334; 5407740

Property Size (HA) 18.4

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? Since 2013

If no*, please name the NGO who has fee simple ownership of the property: _____

*Note: You must include a letter from the NGO property owner stating they support this application.

Have you received HCTF funding for the property or activities on the property? Yes ☒ No ☐

2. Habitat Description / Values:

Salt Spring Island falls within the Coastal Douglas-fir ecosystem, BC's smallest biogeoclimatic zone and one of great conservation concern. Situated at the center of Salt Spring Island, the 45 acre Blackburn Lake Nature Reserve (BLNR) is one of the island's 7 freshwater lakes. The 4 hectare lake is critical to the health of the Cusheon Lake Watershed. Over 70% of the water arriving to Cusheon Lake, which is threatened by water quality challenges, flows through Blackburn Lake. This reserve includes two thirds of the lake shoreline, wetlands and riparian areas, all of the inflowing and outflowing creeks adjoining the lake, forested upland habitat, and open meadows. The reserve is a haven for many species, including numerous waterfowl and 21 Species at Risk. However, the land has been highly altered by agricultural development (early 1900's) and later as an organic golf course (1994-2011).

The goals for BLNR are:

1. Maintain or improve the quality of water entering Blackburn Lake;
2. Improve habitat for a wide diversity of native plants and animals, including Species at Risk;
3. Eliminate, reduce or manage invasive species to the degree possible; and
4. Provide ongoing and educational public access.

BLNR will ideally be a diverse mix of open and forested wetlands, riparian areas, wet meadows, and upland forests that provide important wildlife habitat and filter water

as it enters Blackburn Lake. Restoration efforts will work with natural processes and succession to create diverse, sustainable, resilient ecosystems that support a wide range of species at risk, fish, and wildlife.

3. Guiding Documents:

SSIC has a 5 year Land Management Plan (2014-19) in place for this reserve that requires updating in 2019. A baseline inventory was completed for the donation of 5.8 acres in 2014, but a baseline for the remaining area of the reserve needs to be completed in 2016-17. There is also a Wetland Restoration Prescription in place for the reserve provided by wetland restoration expert Tom Biebighauser.

4. Community Engagement/ Access

The reserve is open to the public and has two accessible trailhead locations. There are 3 km of walking trails. This reserve also has several volunteer wardens that assist with maintenance of the trails and signage as needed. Community volunteers are also involved in the maintenance and restoration of the reserve through SSIC's Stewards-In-Training school program, involvement of students from a number of schools in restoration activities such as native plantings and invasive species removal, propagation of native plants through an on-site native plants nursery and educational workshops, and assistance with other general maintenance activities that arise.

5. Proposed Land Management Activities:

- Draft and complete final Board approved version of an updated Land Management Plan for 2019-24 (Year 3)
- Maintain trails (Years 1-3)
- Remove targeted invasive species I (eg. broom, yellow flag iris, hawthorn, holly, and tansy ragwort). (Years 1-3)
- Survey Species at Risk to guide management actions (Years 1-3) including Northern Red-legged Frog, bats, birds, and rare plants and lichens.
- Continue photopoint monitoring at established sites to monitor success of wetland and riparian restoration. (Years 1-3)
- Maintain restored wetland sites and native plants planted around facility (weeding, mulching and watering as needed of planted native plants to increase chances of survival). (Years 1-3)
- Maintain native plants nursery to facilitate habitat restoration plans (Years 1-3)
- Repair or replace up to 3 decaying bridges to direct traffic to low sensitivity areas and minimize habitat impact.
- Develop strategic educational signage Complete Baseline Inventory for remaining parcel (Year 1)
- Staff oversight and management of activities

Activity	Year 1	Year 2	Year 3
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Trail maintenance	\$750	\$750	\$750
Field technician for general maintenance, signage repair, infrastructure repair, etc.	\$1000	\$1000	\$1000
Targeted invasive species removal (eg. broom, yellow flag iris, hawthorn, holly, and tansy ragwort)	\$1500	\$1500	\$1500
Species at Risk surveys to guide management actions including Northern Red-legged Frog, bats, birds, and rare plants and lichens.	\$1250	\$1250	\$1250
Continue photopoint monitoring at established sites to monitor success of wetland and riparian restoration.	\$500	\$500	\$500
Maintenance of restored wetland sites (weeding, mulching and watering as needed of planted native plants to increase chances of survival).	\$2000	\$2000	\$2000
Maintenance of native plants nursery to facilitate habitat restoration plans (seed collection, propagation, watering, re-potting, maintenance of irrigation, etc).	\$5500	\$5500	\$5500
Draft and complete final Board approved version of an updated Land Management Plan for 2019-24.			\$2500
Draft and complete Baseline Inventory for PID: 003-958-710 (32.6 ac) and 7 acre addition, including GIS mapping	\$2500		
Repair or replacement of up to 3 decaying bridges to direct traffic to low sensitivity areas and minimize habitat impact.	\$6000	\$8500	\$6000
Signage development and installation to improve community education regarding the purpose of the lands and the value of the natural assets.	\$500	\$500	\$500
Land Manager and Biologist wages - providing operational oversight of the contractors, volunteers, and maintenance and management activities taking place on the lands	\$3500	\$3500	\$3500
Total	\$25,000	\$25,000	\$25,000

Potential risks to the property if SSIC does not receive funding from HCTF for land management activities described above include: missing data gaps to guide management of Species at Risk and restoration of their habitats, encroachment of invasive species resulting in degraded ecosystems and habitat for Species at Risk and other fish and wildlife, reduced awareness by public of the importance of staying on trails and the value of the habitat on the reserve, increased impact on ecosystem if trails not maintained and public not directed to appropriate locations for access, increased expense of purchasing native plants for restoration of habitat if nursery not maintained, a decrease in provenance of local seeds used for plant propagation for future restoration projects if plants need to be sourced elsewhere, potential danger if bridges not repaired and public not guided to appropriate walking locations, and

potential decrease in survivorship of restored sites without proper maintenance and monitoring.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>\$25,000</u>
Year 2	<u>\$25,000</u>
Year 3	<u>\$25,000</u>
Total	<u>\$75,000</u>

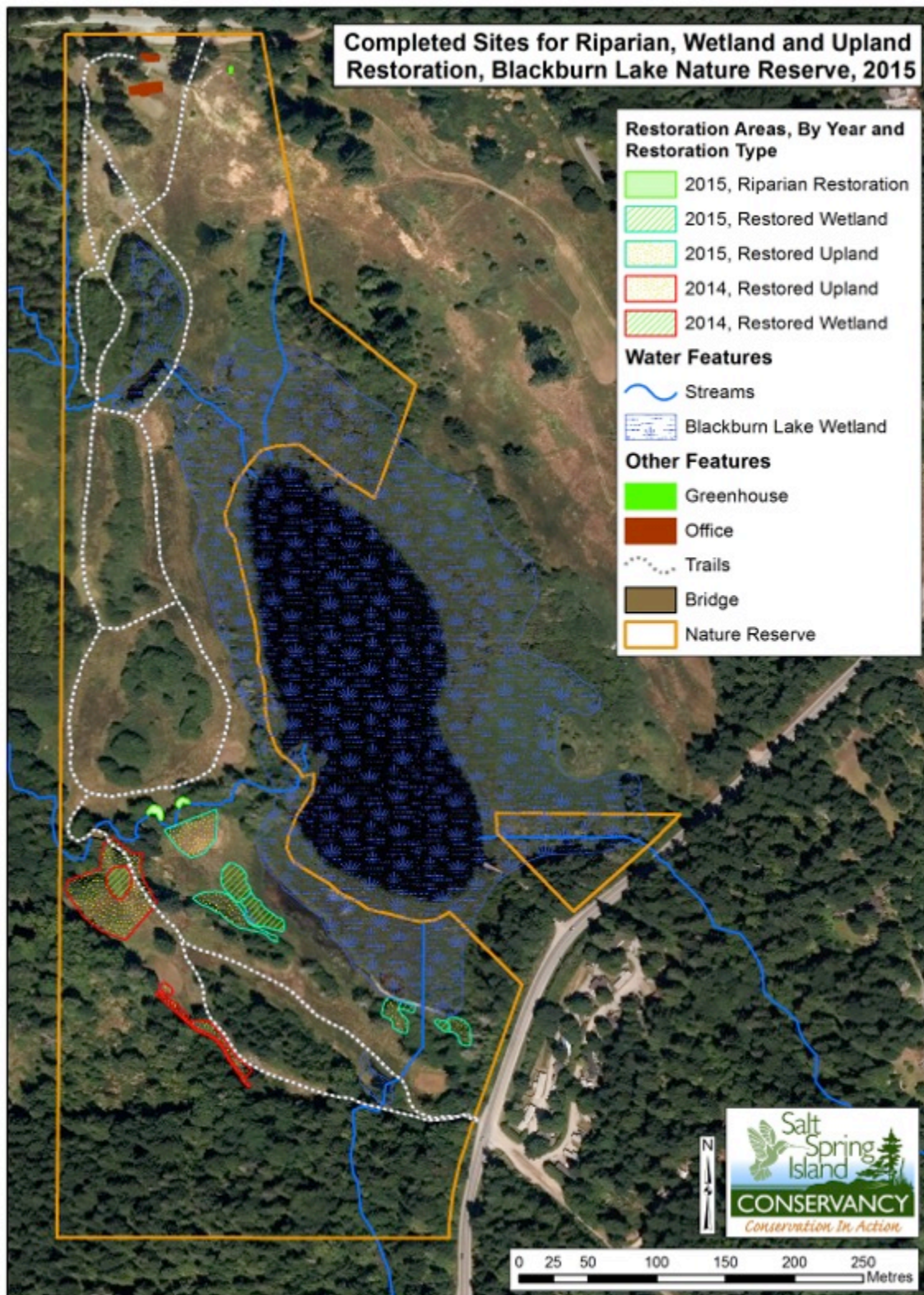
7. Project Partners:

SSIC works with many local community partners on our restoration and conservation planning for our nature reserves and management activities, such as SS Water Preservation Society (expertise, sharing knowledge and monitoring), Cusheon Lake Stewardship Committee (expertise, sharing knowledge and monitoring), Middle Years Shared Ecological Education Centre (in kind labour), Salt Spring Centre School (in kind labour), Redfish School of Change (in kind labour), as well as an extensive network of volunteer wardens, member volunteers, experts, and contractors that help us to achieve our project activities on our reserves.



Blackburn Lake Nature Reserve (Photo: L. Matthias)

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020

Project #:1-649

PROPERTY INFORMATION

Property Name:Blackburn Lake Nature Reserve

Former Property Names, if applicable:

Region:1-Vancouver Island (Salt Spring Island)

PROPONENT INFORMATION

Project Leader:Laura Matthias

Organization Name:Salt Spring Island Conservancy

Address:PO Box 722

City:Salt Spring Island

Province:BC

Postal Code:V8K 2W3

Email:laura@saltspringconservancy.ca

Phone:250-538-0318Fax:250-538-0319

ADDITIONAL CONTACT:

Name:Christine TorgrimsonOrganization:Salt Spring Island Conservancy

Email:christine@saltspringconservancy.caPhone:250-538-0318

HCTF Land Stewardship Grant Proposal 2017-2020



Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
Blackburn Lake Nature Reserve	Maintain or improve the quality of water entering Blackburn Lake.	Ensure survivorship of over 15,000 native plants transplanted into resotred wetland areas, and monitor immigration of species into newly resotred sites.	Over 85% of plants survive and thrive in restored wetland areas with help from watering, weeding and mulching as needed. Photopoint monitoring demonstrates significant changes in biodiversity, habitat and species composition over time, and wildlife cameras and monitoring help to identify species immigration and use of restored sites. Over 75 volunteers help to maintain reserve and learn stewardship and restoration skills.	Guided by staff, restored wetland areas maintained by volunteers, staff and consultants (weeding, watering, mulching of native plants planted in wetland sites to increase survivorship and maintain habitat for wildlife). (Years 1-3 as needed).
				Staff guide volunteers in ongoing photopoint monitoring at established sites to monitor success of wetland and riparian restoration and guide future restoration work. (Years 1-3).
				Staff and volunteers monitor species immigration through wildlife cameras and ongoing monitoring of restored sites. Wildlife images are shared in social media posts and on website to increase education about local wildlife and their habitat needs on the reserve. (Years 1-3).
	Improve habitat for a wide diversity of native plants, fish and wildlife, including Species At Risk.	Land Management Plan and other guiding reserve documents kept up to date and with most up to date science. Species inventories completed and target populations begin using restored wetland habitat. Native plant burserly provides source of locally propagated native plants with highest provenance for greatest success in survivorship.	Guiding documents for reserve completed and up to date with most up to date science. Targeted species using newly restored wetland sites. Up to 6,000 native plants propagated with local seeds for future habitat restoration on site.	Species at Risk Risk surveys completed to guide management actions including Northern Red-legged Frog, bats, birds, and rare plants and lichens (Year 2).
				Maintain native plants nursery to facilitate habitat restoration plans (seed collection of up to 10 species, propagation of up to 6,000 plants, watering, re-potting, maintenance of irrigation, etc.). (Years 2-3).
				Purchase and install TRAFX trail monitor to assess levels of public use in reserve and guide future management of trails. (Year 1-3).
				Staff work with consultant to draft and complete Board approved updated Land Management Plan for 2020-25 to guide habitat protection and restoration for wildlife and rare species (Year 3).
	Eliminate, reduce or manage invasive species to the degree possible.	Targeted invasive species are controlled or removed from strategic locations on site.	Up to 6 invasive species removed or controlled on 45 acre reserve using best management protocols and adaptive management with most up to date science.	Targeted invasive species removal and control completed using invasive species mapping completed in 2015 and Best Management protocols for Scotch Broom, English Hawthorn, Holly, Yellow Flag Iris, Thistle, and Tansy ragwort annually. Success of removal and control efforts monitored annually and removal techniques adjusted as necessary. (Years 1-3)
				Engage up to 40 volunteers and students in invasive species removal to enhance willdife habitat and increase skills and cost-effectiveness of reserve maintenance.
	Provide ongoing and	Engage public in understanding the ecological importance of the reserve and the values within.	Up to 30 volunteers engage in reserve maintenance. Over 500 community members visit reserve and learn about rare species, wetland restoration and management of the reserve. Repaired walking bridges provide access to the reserve for nature appreciation to the public.	Staff guides consultants and volunteer reserve wardens to keep trails maintained. (Years 1-3).
				Staff guide field technician to maintain educational signage and infrastructure and complete general reserve maintenance as needed.(Years 1-3).
Property Vision and/or Overall Management Goals for Property: The goals for BLNR are: 1. Maintain or improve the quality of water entering Blackburn Lake; 2. Improve habitat for a wide diversity of native plants and animals, including Species at Risk; 3. Eliminate, reduce or manage invasive species to the degree possible; and 4. Provide ongoing and educational public access. BLNR will ideally be a diverse mix of open and forested wetlands, riparian areas, wet meadows, and upland forests that provide important wildlife habitat and filter water as it enters Blackburn Lake. Restoration efforts will work with natural processes and succession to create diverse, sustainable, resilient ecosystems that support a wide range of species at risk, fish, and wildlife, such as beaver, river otter, Coho salmon and Cutthroat Trout. Species at Risk identified on the reserve include: Band-tailed Pigeon, Barn Swallow, Black Swift, Blue Dasher, Common Bladder-moss, Common Nighthawk, Common Woodnymph, Double-crested Cormorant, Great Blue Heron, Green-sheathed Sedge, Little Brown Myotis,Northern Pygmy-owl, Olive-sided Flycatcher, Ozette Coralroot, Peacock Vinyl, Peregrine Falcon, Propertius				

CAPITAL ASSETS			educational public access.			Staff works with consultant to develop and install signage as needed to improve community education regarding the purpose of the lands and the value of the natural assets and habitat for wildlife. (Years 1-3).
						Staff work with consultants to repair or replace bridges as needed to direct traffic to low sensitivity areas and minimize habitat impact in fish-bearing creeks. (Year 1 or 2).
ITEM	PURPOSE	TOTAL				
Total:	\$45,000.00					
Admin Fee %	0%					
Admin Fee \$	\$0.00					
3 Yr Total incl Admin Fee:	\$45,000.00					

1-650

Cowichan Garry Oak Preserve



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	The Nature Conservancy of Canada (NCC)		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	XS-33684		
• When was your organization legally incorporated?	November 28, 1962		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	11924 6544 RR0001		
Address	200-825 Broughton Street		
	Victoria	BC	V8W 1E5
	City	Prov	Postal Code
Email	chris.perrin@natureconservancy.ca	Organization Website	www.natureconservancy.ca
Phone	250.479.3191 ext. 244	Fax	250.479.0546

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name:	Cowichan Garry Oak Preserve
PID Number(s):	000-977-543; 006-321-879; 006-321-917
Region (see map)	1 – Vancouver Island
Geographic Coordinates:	48° 48' 30" North, 123° 37' 46" East
Property Size (HA)	23.3 hectares
Does your organization have fee simple ownership of this property?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If yes, how long has your organization owned this property?	1999
If no*, please name the NGO who has fee simple ownership of the property:	
<small>*Note: You must include a letter from the NGO property owner stating they support this application.</small>	
Have you received HCTF funding for the property or activities on the property?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

2. Habitat Description / Values:

NCC's Cowichan Garry Oak Preserve is one of the few remaining examples of an intact Garry oak ecosystem. The preserve protects critical habitat for significant populations of rare plants, invertebrates and birds, and provides opportunities for restoration, volunteer engagement and research.

The site was previously owned by the Elkington pioneer family who had the foresight to keep a large portion of their land relatively undisturbed, leaving a legacy to NCC of one of the largest, most intact deep soil Garry oak woodland meadows on Vancouver Island. Because of the relative abundance of native plant species and the presence of rare species, the site was an excellent candidate for restoration. NCC's Garry oak restoration program has focused on invasive species control (particularly exotic grasses), native species propagation, research, extension, and socio-cultural restoration opportunities with members of the local Cowichan First Nations.

The ongoing transformation of CGOP to its former historical biodiversity and the presence of rare species and communities has attracted researchers from across North America to investigate the complex relationships and unique species present in this functioning Garry oak field laboratory. Research has thus far catalogued endangered species, the roles of pollination and bees in this ecosystem, the development of invasive species mitigation techniques, a growing understanding of climate change and its effects on butterflies and the biodiversity and resiliency of the

Garry Oak ecosystem.

3. Guiding Documents:

- Biodiversity lists comprising birds, butterflies, and plant species that live on CGOP;
- NCC's CGOP Management Plan;
- Garry Oak Meadow Enhancement and Restoration Planning;
- Natural Resources of Canada/Canadian Forest Services Invasive Species Bulletin ("Invasives Control-95070.PDF").

4. Community Engagement/ Access

With only pockets of Garry oak ecosystems remaining and many of the species that rely on them also in rapid decline, a growing roster of scientists from across North America are coming to CGOP to understand the intricacies of these native oak savannah and woodland ecosystems and the vast complex of plants and found within.

More than 100 volunteers have been instrumental, working alongside NCC staff, in restoring CGOP, which only 10 years ago was choked by Scotch broom and other invasive plants. For one day each spring we open the preserve to the public for an opportunity to showcase our work in this eco-system and provide an educational opportunity for people to interact with our staff and our conservation partners at a number of stations situated about the preserve. This provides a unique opportunity for people of all ages to wander along narrow pathways through the Garry oak meadows at the height of the spring wildflower bloom.

Outside of our very active conservation volunteer program at the preserve, public access to the property is otherwise restricted as there are a number of sensitive restoration sites and vulnerable species that live within the preserve, as well as ongoing research underway.

5. Proposed Land Management Activities:

The following are a variety of operations and maintenance activities requiring funding that are critical to supporting the ongoing conservation success at CGOP:

- Year 1: Complete a revised and updated baseline inventory of the species (flora & fauna), structures, culture-value and other values of the property. An informal baseline inventory for CGOP was last completed in 2001 to provide some basis for the CGOP Property Management Plan. This information is now outdated and the vast sources of information we have accumulated need

to be compiled in a process that updates and revises the formal Property Management Plan so strategic actions can be laid out to maintain and enhance the natural values of CGOP;

- Year 1: Complete an updated and comprehensive Property Management Plan for the preserve following the completion of the Baseline Inventory. The Property Management Plan will direct the conservation and stewardship actions for the property for a five year period and will allow partners and neighbours to weigh in on the management of CGOP;
- Years 1 and 2: Expansion of restoration fencing to continue invasive species management grazing treatments. Success managing invasives species has been found through fence-contained sheep grazing treatments in fall, coupled with preventative fencing to keep deer out of sensitive meadow habitats during spring. To increase restoration success, additional fencing is needed to develop the invasives species program;
- Years 2 and 3: Implementation of the Property Management Plan managing access and human activities on the lands, developing maintenance programs and staff/volunteer plans for site management. Implementation of the Property Management Plan will involve a wide array of initiatives that maintain the diverse and complex natural features found on CGOP and engage the community in education and stewardship activities;
- Year 2: Renovation and expansion of the nursery at CGOP to contribute to the restoration work at the property. The CGOP nursery, as a cultivator of rare, sensitive and unique species, must further develop its seed bank to ensure greater restoration success to establish and expand populations of rare species on the property and at other nearby sensitive sites such as NCC's Chase Woods and Quamichan Wetlands.

6. Amount Requested from HCTF:

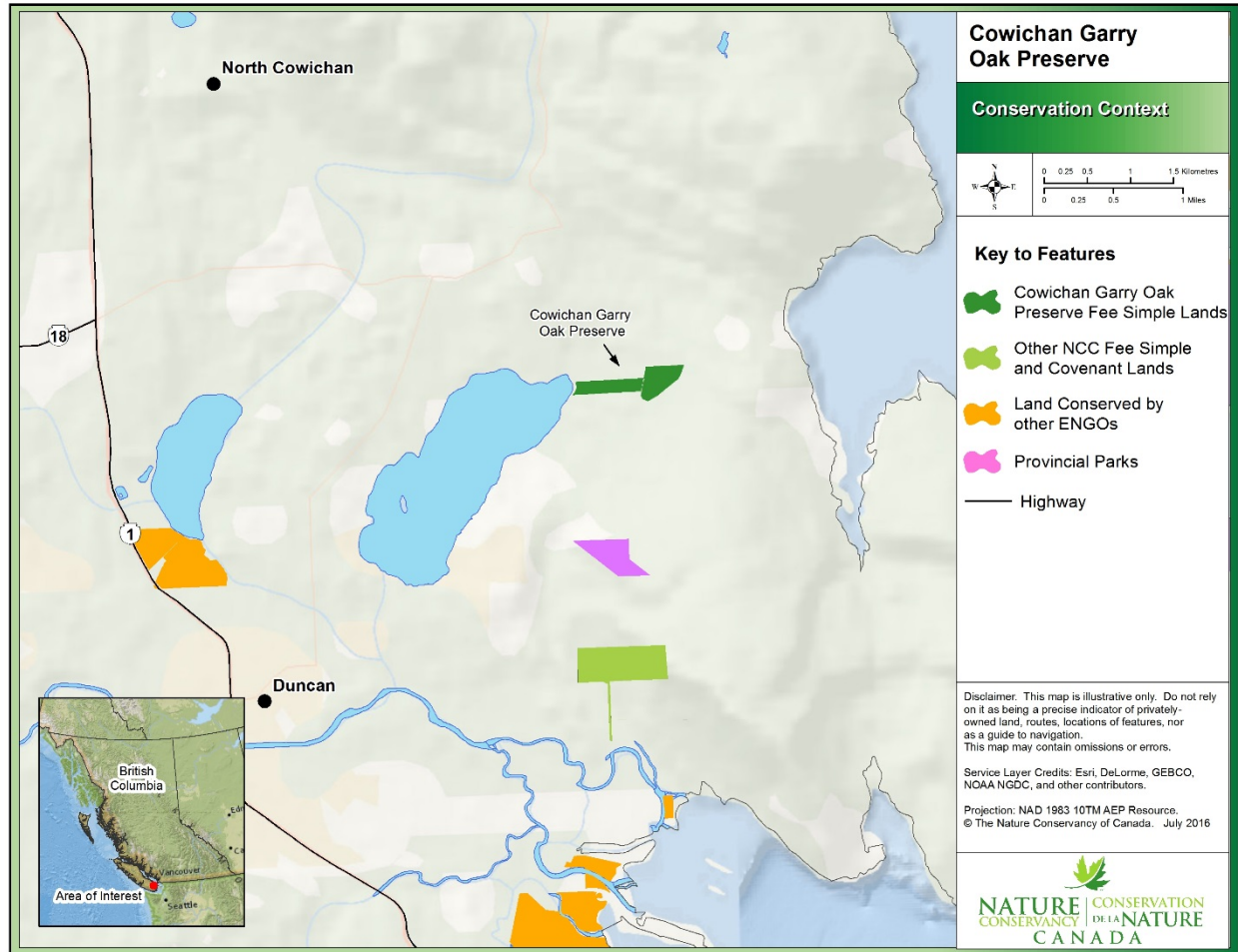
Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>\$10,000</u>
Year 2	<u>\$10,000</u>
Year 3	<u>\$5,000</u>
Total	<u>\$25,000</u>

7. Project Partners:

Garry Oak Ecosystems Recovery Team, Cowichan Valley Naturalists' Society.

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020

Project #:1-650

PROPERTY INFORMATION

Property Name:Cowichan Garry Oak Preserve

Former Property Names, if applicable:

Region:1- Vancouver Island

PROPONENT INFORMATION

Project Leader:Tanya Wahbe, West Coast Program Director

Organization Name:The Nature Conservancy of Canada (NCC)

Address:200-825 Broughton Street

City:Victoria

Province:British Columbia

Postal Code:V8W 1E5

Email:tanya.wahbe@natureconservancy.ca

Phone:(250) 479-3191Fax:(250) 479-0546

ADDITIONAL CONTACT:

Name:Jocelyn WoodOrganization:The Nature Conservancy of Canada, West Coast Stewardship Coordinator

Email:jocelyn.wood@natureconservancy.caPhone:1-888-404-8428, ext 106

HCTF Land Stewardship Grant Proposal 2017-2020



Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
Cowichan Garry Oak Preserve	To effectively maintain and enhance the natural values found on the property in partnership with local stewards.	Develop high-level management planning documents with community involvement to guide resource conservation, habitat restoration and enhancement and human activities on CGOP.	By June 2017, baseline inventory fieldwork and a report will be complete. By December 2017, a formal property management plan will be complete. By March 2018, strategies, work plans and supporting documents will be complete.	Undertake resource inventory, analyze and compile current and archived resources in an accurate baseline inventory following NCC's standard template. (Year 1)
				In collaboration with stewardship partners in the Cowichan Valley including Cowichan Tribes, develop and create a formal property management plan following NCC's standard template. (Year 1)
				Develop regular maintenance programs, invasives management strategy and staff/volunteer plans for site management, research and engagement programs. (Year 2)
	To effectively maintain and enhance the natural values found on the property in partnership with local stewards.	Implement the property management plan to effectively steward the long term natural values of CGOP.	By 2020, management of aggressive invasives will reduce invasive shrub extent by 20% of 2016 mapped levels; By 2020, management of exotic grasses will reduce invasive grass cover by 50% of 2016 mapped levels.	Mechanical removal (mowing, shears, hand pulling) of remaining shrubby invasive species like Scotchbroom. (Year 1-3)
				Maintenance of sheep grazing to treat exotic grasses (Year 1-3)
Property Vision and/or Overall Management Goals for Property: NCC's Cowichan Garry Oak Preserve (CGOP) is one of the few remaining examples of an intact Garry oak ecosystem. The primary management goal for the preserve is to restore and protect critical habitat for rare plants, invertebrates and birds, and provide opportunities for restoration, volunteer engagement and research in this ecologically significant ecosystem.	Restoration and enhancement of endangered Garry Oak meadow ecosystems	Renovation and expansion of the nursery at CGOP to improve restoration work at the property.	By December 2020, expand the current nursery by 1000 square feet; By 2020, increase recruitment of cultivated rare seedlings and plant out an additional 50 seedlings every year.	Expand the nursery and recruit greater diversity of seeds. (Year 1)
				Installation of irrigation to accommodate watering of seedlings. (Year 2)
				Weeding and maintenance of cultivated seedlings (Year 1-3)
	Restoration and enhancement of endangered Garry Oak meadow ecosystems	Use of various approved techniques to manage invasive species and maintain the Garry Oak meadow ecosystem.	Additional 400 metres of restoration fencing to secure restoration area for additional 2 acres by 2018; By 2020, annual prescribed burns and mechanical treatment of invasives are used to reduce invasive species cover by 20% increasing the productivity of the Garry Oak meadow and providing opportunities for the establishment of at least 1 new rare plant species population.	Installation of 400 additional meters of restoration fencing to prevent deer from grazing sensitive habitat. (Year 1)
				Prescribed burns are completed annually in partnership with the Cobble Hill Fire Base to maintain Garry Oak meadow habitat by reducing shrub habitat. (Year 1-3)
				Planting out of native species cultivated in the preserve nursery and monitoring of over-wintering success (Year 1-3)
CAPITAL ASSETS				

[illegible]

1-678

Settlement Lands



HCTF Land Stewardship Grants

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Denman Conservancy Association		
Is your organization a registered Society?	Yes X	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-27585		
• When was your organization legally incorporated?	8 May, 1991		
Is your organization a registered charity in good standing with the CRA?	Yes X	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	137698700 RR0001		
Address	PO Box 60, 5901 Denman Road		
	Denman Island	B.C.	V0R 1T0
Email	Info@denmanconservancy.org	Organization Website	www.denman-conservancy.org
Phone	250 335 2868	Fax	

PROJECT INFORMATION

1. Conservation Property/ Complex:

Property Name: Settlement Lands
(PID): 006-639-771
PID Number(s): (PID): 006-657-656
One – Vancouver Island
Region (see [map](#))
49.552799, -124.807347
Geographic Coordinates:
63.14 HA
Property Size (HA)

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? 10 years

If no*, please name the NGO who has fee simple ownership of the property:

**Note: You must include a letter from the NGO property owner stating they support this application.*

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

The Settlement Lands property is strategically located in the centre of an area of protected lands on Denman Island. Provincial parkland and the Islands Trust Fund's Inner Island Nature Reserve border three sides of the property and the Settlement Lands completes both terrestrial and aquatic corridors between other protected parcels.

Located in the Coastal Douglas-fir moist maritime biogeoclimatic region, the Settlement Lands is a diverse complex of wetlands, rocky outcrops and steep slopes alternating with flat benches. Rocky and wet openings are interspersed among primarily coniferous forests of thriving young trees, remaining second-growth, and well-over 35 old-growth veteran Douglas-firs. The variety of slope, aspect, elevation and moisture gradient supports a biodiverse assemblage of wildlife and habitats.

Significantly, fourteen wildlife species at risk have been observed in the Settlement Lands' habitats. In addition, at least 2 provincially red-listed and two blue-listed ecological communities were identified thus far during the covenant baseline study that is in progress. Overall, 112 wildlife and 182 plant species were found on the Settlement Lands, and the presence of various locally-uncommon plant species, representing both wet and dry sites, reflects the site's uniqueness and diversity.

Thus the Settlement Lands' habitat-refugia will provide a source of species to sustain wildlife populations in the surrounding area. Now, nearly 20 years after high-grade logging, many of the ancient Douglas-fir trees remain and these veteran trees together with other original plant communities will

contribute to the overall genetic legacy of a valuable fragment of the vanishing Coastal Douglas-fir forest.

3. Guiding Documents:

Biological Assessments:

- Balke, J.- 2007 - Ecological Overview Inner Forest Marsh Reserve/the Settlement Lands. Report to DCA.
- Balke, J.M.E., Miskelly, J. 2007. Taylor's Checkerspot *Euphydryas editha taylori* and rare dragonflies on Denman Island, B.C.
- Guppy, C.S. 2007. Taylor's Checkerspot (*Euphydryas editha taylori*) on the Denman Island Settlement Lands. Report for Parks Canada, Victoria.
- Denman Conservancy Association, 2014. Guide to the Stewardship of Taylor's Checkerspot *Euphydryas editha taylori* on Denman Island. Report to RIG.
- Fyson, A. 2015. Settlement Lands Plant Species Assessment. Report to DCA.
- Fyson, A. 2015. Settlement Lands Taylor's Checkerspot reserve. Report to DCA.
- Fyson, A. 2015. Vegetation Control in the Settlement Lands Butterfly Reserve. Report to the DCA.
- Fyson and Bland 2016 Taylor's Checkerspot Habitat Enhancement on Property Owned by Denman Conservancy Association The Settlement Lands Butterfly Reserve 2015-2016
- Balke, J. – in progress 2016. Conservation Covenant Baseline Study .

DCA Lands Committee reports:

- DCA Lands Committee Briefing Report – the Settlement Lands to DCA Board 2015
- DCA's Settlement Lands - Community Open House Summary Submission to DCA Board 2015
- Conservation Covenant Proposal to Islands Trust Fund (ITF) & subsequent Letters of agreement with ITF to grant and accept covenant 2015-6

4. Community Engagement/ Access

DCA has agreed with Islands Trust Fund (ITF) to grant ITF a conservation covenant on the property. The conservation covenant will authorize a Management Plan to be agreed on by the parties. Prior to reaching that agreement with ITF a Public Information meeting was held on Denman Island to provide information on the conservation values of the land and receive input on DCA's plans.

The land is open to public access from Central Road. Signs around the Butterfly Reserve currently request the public to avoid this area. Decisions about which old trails to retain and manage for the public will be made through the Baseline and Management Plan process. Guided walks for the public have been held approximately yearly and have been well attended. DCA volunteers have assisted in removing invasive vegetation and have assisted with Taylor's checkerspot butterfly surveys.

5. Proposed Land Management Activities:

A Management Plan for the property will be created to clarify objectives and identify future actions needed to manage the diverse conservation values.

Management Activities for the Settlement Lands will include:

- Butterfly Reserve: habitat protection and restoration to sustain butterflies, research and monitoring of rare butterfly species;
- Trails/community outreach: rehabilitation and management of walking trails for viewing wetlands, old growth forest, and wildlife, including interpretive information (signage and information Kiosk);
- Property boundary delineation: installation of property boundary markers and fencing where needed to protect, enhance and restore wildlife habitat;
- Removal of old refuse;
- Control and removal of invasive species including Scotch broom, St. John's Wort and English ivy;
- Continued mapping and inventory of rare features for protection and community education.

The DCA's management actions will ensure that encroachment on the sensitive wildlife habitat by unaware persons will be deterred and activities such as tree theft, sensitive wildlife disturbance and refuse dumping will not occur. Rare ecological communities will be sustained that are currently being threatened by the incursion of invasive species. Aquatic ecosystems including the upper drainage of Denman's major salmonid system and considerable waterfowl breeding habitat will be protected from pollutants, disturbance and degradation. Signage and wildlife viewing trail access will improve public awareness and support for conservation values.

Without the above measures cattle from the neighbour's farm will continue to invade and graze in the conservation area, regeneration of the forest will be delayed, waterfowl habitat and salmon stream headwaters will be degraded and public respect for the conservation value of the land will be impaired.

6. Amount Requested from HCTF:

Year 1	<u>\$7500</u>
Year 2	<u>\$7500</u>
Year 3	<u>\$7500</u>
Total	<u>\$22,500</u>

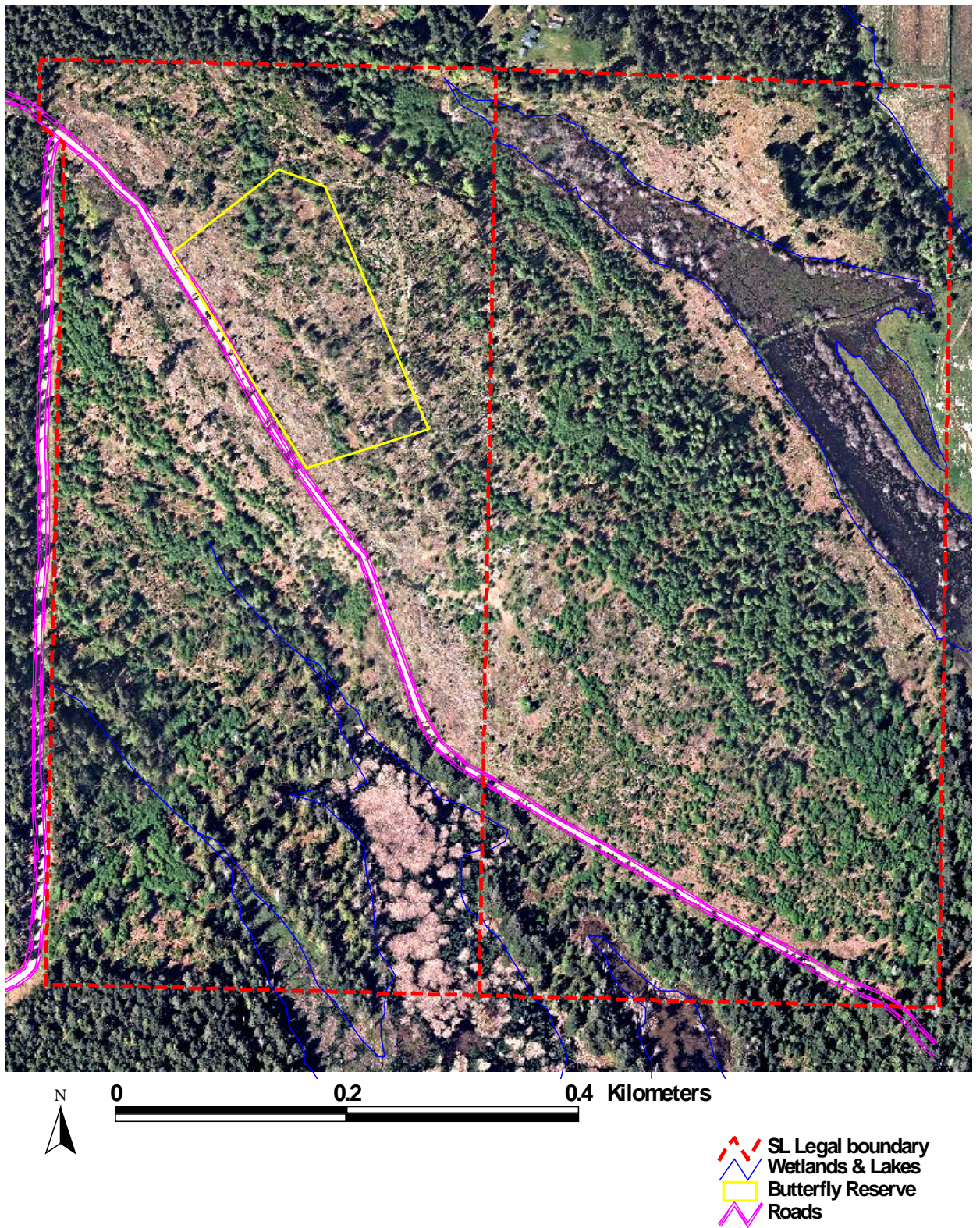
7. Project Partners:

Islands Trust Fund: funding and expertise

Denman Conservancy Association: funding, expertise, management, volunteer labour

Neighbor landowners: Labour, machine time

8. Property/Complex Map



Funding Cycle:2017-2020

Project #:1-678

PROPERTY INFORMATION

Property Name:Settlement Lands

Former Property Names, if applicable:

Region:oneVancouver Island

PROPONENT INFORMATION

Project Leader:John Millen

Organization Name:Denman Conservancy Association

Address:Box 60

City:Denman Island

Province:British Columbia

Postal Code:V0R1T0

Email:info@denmanconservancy.org

Phone:250 335 2868Fax:

ADDITIONAL CONTACT:

Name:Erika BlandOrganization:Land Manager, Denman Conservancy Association

Email:erikaaction@gmail.comPhone:250 702 7773

HCTF Land Stewardship Grant Proposal 2017-2020

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
Settlement Lands	Maintain/increase populations of invertebrate species at risk including: Taylor's Checkerspot (TC) (endangered); Dun Skipper; Common Wood Nymph; Western Pine Elfín; Western Pondhawk; Blue Dasher;	Enhance Taylor's Checkerspot & other invertebrate species habitat focusing on areas with food & nectar plants for larvae & adults; Create a demonstration Butterfly Garden to expand available habitat while providing education opportunities	Debris from previous tree felling is removed from 0.5ha of existing Butterfly Reserve area to expose nectar & larval host plants; Creation of a 0.02ha demonstration Butterfly Garden involving 20+ volunteers; Invertebrate larvae & adults are observed using plants in the garden by year 3; 10 species of native plants known to be host plants for rare invertebrate species are established & self-propagating within the garden within 5 years from the time of its creation; 3 educational visits are attended by local community school children & community members	Remove debris from 0.5ha of Butterfly Reserve area. Map 0.02ha butterfly garden area & existing plants. Design plan for supplemental butterfly-significant plants. Cultivate specific plant species (Year 1)
				Prepare sites for additional butterfly-significant plants using hand tools. Install fence and water cistern. Plant supplemental plant species. (Year 2)
				Weed, water & maintain garden area throughout summer months to encourage plant growth (Years 2&3)
	"	Conduct scientific research & monitoring to evaluate over time the quality, characteristics & use of Butterfly Reserve and wider SL property by rare invertebrates (Taylor's Checkerspot and Dun Skipper)	Database established to record monitoring data & staff/contractors are trained in its use. TC larvae monitoring areas are selected & monitored 3x/week from February-April; 800m butterfly transect monitored 3x/week from April-June; Intensive botanical plot studies carried out for 2 years, 1x/week for 6 weeks in May/June. Reports on monitoring are produced; Priority activities & areas for invertebrate species are identified to create a 5-year Invertebrates Mgmt Plan specific to the SL property	Establish database (contractor 4hrs with volunteer intern 4 hrs) for recording of monitoring observations (Year 1)
				Monitoring (and associated data entry/reports) of TC larval area (40 hrs HCTF); adult butterfly transect (40 hrs DCA contribution); and intensive botanical study areas (48hrs HCTF) by contractors (Years 1-3)
				Identify priority management activities and areas and create Settlement Lands Threatened Invertebrates Management Plan (Year 2)
Property Vision and/or Overall Management Goals for Property: The Settlement Lands' rare Coastal Douglas-fir ecological community is to be protected both by a Conservation Covenant, held by the Trust Fund Board (Islands Trust Fund - ITF), and by on-going stewardship to conserve and enhance the property's rich biodiversity and valuable natural features. The Settlement Lands varied terrain with its numerous large wetlands, portions of interconnecting creeks, steep rocky bluffs, slopes of various aspects, and extensive plateaus will continue to provide ecological connectivity and refugia for wildlife by its position in the centre of a large area of protected lands (Denman Island Provincial Park, ITF's Inner Island Nature Reserve and DCA's Central Park and Winter Wren Wood). Overall management goals will emphasize conservation strategies for enhancing the survival of the endangered Taylor's Checkerspot butterfly, as well as the other 14 species at risk and the 6 rare ecosystem communities. In addition, management goals will include providing opportunities for low-impact nature observation, scientific research, community outreach and education.	Maintain/increase populations of aquatic & bird species at risk including: Red-legged Frog; Common Beaver; Cutthroat Trout; Common Nighthawk; Great Blue Heron; Olive-sided flycatcher; Band-tailed pigeon; Barn owl; Western Screech owl; Barn Swallow	Prevent current degradation of wetland riparian habitat and evaluate yearly changes in marsh water levels & quality	Neighbouring cattle are prevented from entering marsh and wetland habitat; 200m of fencing is installed along the eastern boundary of the property adjacent to Homestead Marsh; A program is established for ongoing monitoring of beaver activity and wetland levels; 2 water depth guages are installed; Beaver activities and wetland levels/quality are recorded monthly for 3 years; Bridge installed along existing trail at crossing of a stream connected to salmonid-bearing watershed headwaters	Install 200 m of woven wire fencing along eastern boundary wetland edge (Contract labour and materials from HCTF; 40hrs labour in kind and DCA Land Manager) (Year 1)
				Install water depth guages in Homestead and Pickles Marshes (HCTF funds) (Year 1). Purchase water quality testing equipment & monitor wetland levels and quality monthly for 3 years (DCA contribution) (Years 1-3)
				Install bridge along stream trail (materials HCTF; 20 hours in kind DCA contribution) (Year 2)
"	"	Provide safe community access to specific aquatic habitat areas to encourage community support for conservation and natural history education while protecting habitat & native species through non-	A 7.3 hectare non disturbance area for the protection of beavers and other wetland and bird species is identified and signage is installed to alert users to this area; A bird blind & kiosk are installed to the south of the wetland non-disturbance area; DCA sponsors 2 annual outings to the site focused on guided low-impact wildlife viewing & education;	Map out and select Wetland/beaver non-disturbance area and install signage to demarcate boundaries (Year 1)
				Design and install bird blind at wetland non-disturbance area edge (Year 3); Design and install interpretive information for bird blind (Year 3).

CAPITAL ASSETS				disturbance areas	Interpretive information surrounding the importance of beavers, red legged frogs, marsh birds & other species is installed a the bird blind site;	Conduct 2 educational outreach visits to bird blind with hired local biologists (10 hours in-kind) (Year 3)
ITEM	PURPOSE	TOTAL	Protect and enhance biodiveristy through the maintenance of wildlife refugia and ecolocal corridors within the SL property and with adjacent protected areas	Identify new, and maintain existing, ecological corridors/refugia for wildlife	Key areas for preservation of wildlife refugia are identified using the property baseline study (Balke 2016); Correspondence is initiated with owners of adjacent protected lands to ascertain location and extent of existing or potential refugia areas beyond SL boundaries; Ecological connectivity areas are identified and mapped; Boundary markers are installed at corners of the property and in areas where pedestrian traffic from adjacent lands is expected to occur	Identify key refuge areas through field and report research and comminications with adjacent property owners, carried out by contracted biologist/ecologist (4 hours contracted) and reviewed by DCA committee (4 hours in-kind) (Year 1)
						Mapping of refuge areas by contractor and Volunteer Intern (Year 1) in connection with DCA Protected Areas Network Mapping project below;
						12 boundary markers (at SL boundaries with adjacent lands) and 2 Protected Area signs (along Lake Rd and Central Rd) are designed and installed by Land Manager (materials from HCTF funds; labour from DCA) (Year 1)
			"	Ensure protection of refugia, and ecological connectivity areas via a well-defined, low-impact trails network that directs visitors away from these areas while linking the SL property with existing trails on adjacent lands	Safe trail network is created within biodiverse habitats to encourage community support for conservation & to provide natural history education; Directional signs & wayfinding maps are installed at key locations; 2 information kiosks are installed alerting visitors to trails/non-disturbance areas & providing educational information about wildlife & habitat; Barriers are installed at 2 roadside locations to discourage use of motorized vehicles & prevent other unauthorized land uses (i.e. illegal dumping of garden or other wastes).	Clearing and subsequent bi-annual maintenance of trails carried out by Land Manager (16 hours HCTF Funds) and volunteers (in-kind) (Years 1-3);
						Installation of wayfinding signage (10 signs) along trails (Year 2)
						Installation of information kiosk (HCTF funds) (Year 2), parking barriers (Year 1) & butterfly kiosk (additional funds confirmed) (Year 1)
			"	Share DCA's vision of a Protected Areas Network (PAN) on Denman Island, in which the Settlement Lands is a critical property, to encourage and inform new stewardship efforts on adjacent properties.	A Protected Areas Network Conservation brochure, including high quality mapping components, is produced and distributed (via a combination of paper and digital formats) to 1000 individuals/households. 200 printed copies of this brochure are sold as a DCA fundraiser. A community charette focused on the Protected Areas Network is organized as an official 'opening' event for the Settlement Lands.	Contractor and Volunteer Intern compile existing SL map data and produce high quality cartographic maps of the SL property for inclusion in the above brochure and for future outreach (Year 1)
						A contractor designs a conservation brochure for the SL property and the PAN vision of DCA. The design is reviewed and approved by the DCA Board and 200 copies are printed (Years 2-3)
						A community charette is organized to a) celebrate the conservation of the SL property, b) inform public about conservation values & goals of SL, and c) share DCA vision for a Protected Areas Network on Denman (Year 3).
Total:		\$22,500.00	Restore native plant habitat by reducing Invasive Species across the SL Property	Through the manual removal of existing plants, control the spread of a) Scotch Broom; b) English Holly; c) English Hawthorne; d) St. John's Wort; e) Perriwinkle; f) Everlasting Pea	12 volunteers contribute 120 hours to assist contractors in the removal of invasive species; 8Ha of broom is removed from clearcut areas, old logging landings, roadsides and trails; English Holly (<100 plants) and English hawthorne (<100 plants) are removed from the property; St.John's Wort, Perriwinkle and Everlasting pea is manually removed from 0.02ha area	A bursh cutter is purchased and paid contractors (total 100 hrs, 50 of these HCTF funds) remove Broom from designated areas across SL property amounting to 10ha (Years 1-3)
Admin Fee %		0%				Land Manager locates and removes English Holly and English Hawthorne plants from SL property (16 hours) (Year 3)
Admin Fee \$		\$0.00				Land manager (40 hours, 20 in kind hours), with volunteers, removes 0.01ha of St. Johns Wort/Perriwinkle and 0.01ha of Everlasting Pea through digging and mulching (Years 1 &2)
3 Yr Total incl Admin Fee:		\$22,500.00				

2-605

Windebank



Project File #:

HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Fraser Valley Conservancy (FVC)		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-0037626		
• When was your organization legally incorporated?	01/01/1998		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	879 282 762 RR0001		
Address	PO Box 2026		
	Abbotsford, BC V2T 3T8		
	City	Prov	Postal Code
Email	joanne@fraservalleyconservancy.ca	Organization Website	www.fraservalleyconservancy.ca
Phone	604-625-0066	Fax	

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Windebank

PID Number(s): 028-779-002

Region (see [map](#)) Lower Mainland

Geographic Coordinates: 49.080098N 122.192863W

Property Size (HA) 0.89 HA

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? 4.5 years

If no*, please name the NGO who has fee simple ownership of the property: _____

**Note: You must include a letter from the NGO property owner stating they support this application.* _____

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

This small property encompasses an important riparian corridor for an historically impacted reach of Windebank Creek in Mission BC. In 1995, it was diverted from its original course to create space for road development and a shopping mall; it was illegally cleared of riparian vegetation in 2008; it regularly experiences large amounts sediment and debris washing downstream during heavy rain events which alters the stream bed; and it receives hazardous garbage as the result of squatters using the area.

Despite these challenges, the creek supports cutthroat and rainbow trout populations, Coho and Chum salmon spawn here every fall, river otter and other small mammals frequent the area, numerous bird species utilize the riparian habitat and amphibians are currently being surveyed to see if they are present on the site as well. Windebank Creek is highly impacted by urban development and this section represents one of the few areas where it will be allowed to exist in its natural state, providing important conservation values to the larger community.

Since acquiring the property in 2012, the FVC has been restoring and enhancing the riparian area with the support of community volunteers. The southern section has now been cleared of invasive plants and over 1100 native plants have been added. This area is already showing improvements, with a much more diverse native plant

community and a significant increase in canopy cover. A timeline of events and photos of the property can be found at:

<http://fraservalleyconservancy.ca/category/conservation-property-updates/windebank/>

3. Guiding Documents:

The FVC has collected baseline data (photopoint monitoring and stream assessment) for the site and is currently writing a management plan which will be completed by October 2016. The management plan outlines the goals and activities, both short and long term, for the property.

A group of BCIT Ecological Restoration Program students wrote a comprehensive report on this property, for their applied research course in 2016. It included a detailed site assessment and restoration recommendations. We are using this report to inform our restoration plan for the northern section of the site which is included in our management plan.

4. Community Engagement/ Access

In addition to the important habitat this property represents, it serves as a great focal point for conservation education and stewardship in the community. There are few opportunities in Mission to participate in conservation projects, consequently we have experienced stronger than usual support for our volunteer events at this location.

The property is well suited to host events; it is at the end of a dead end road and there is a large, safe, bridge over the creek at the entrance to the property which makes an accessible staging area for events and signage. The property is an ideal location for the public to appreciate the importance of riparian habitat, in a very urbanized landscape, while simultaneously helping with the restoration efforts.

5. Proposed Land Management Activities:

The ultimate goal for this property is to re-create the riparian corridor the entire length of the reach, that would have existed prior to the surrounding development. While the southern section is well on its way to functioning in a more natural state, the northern section is still highly impacted by invasives (predominantly blackberry) and it represents some of the best habitat on the site.

Our plan for the next 3 years would include:

- Elimination of >80% of the invasives throughout the restoration area by 2019
- Plant an additional 2000 native plants on the property by the end of 2018

- Maintain perimeter fencing around property and establish positive relationships with neighbouring landowners along northern property line
- Install and monitor 10 bird boxes on the property
- Complete surveys for fish, amphibians, birds and potentially pollinators using the site
- Assess and install woody debris refuges in appropriate areas of the stream that will be resistant to storm surge events by the end of 2018
- Assess feasibility of converting the old detention pond at the north end into off-channel habitat for juvenile coho. If feasible, seek out additional funding to complete the works by 2019
- Establish interpretive area on site, including signage and native plant display garden at bridge by 2018

The above objectives would be achieved through a combination of staff and volunteer labour and the amount of work completed will be dependent on the amount of funding secured from several sources.

If this site is not restored as outlined above, the invasive species would continue to consume the site, reverting it back into a blackberry dominated monoculture. The stream conditions would continue to degrade (loss of complexity and increased siltation) which would likely lead to the loss of one of the few areas of suitable spawning habitat on this system.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

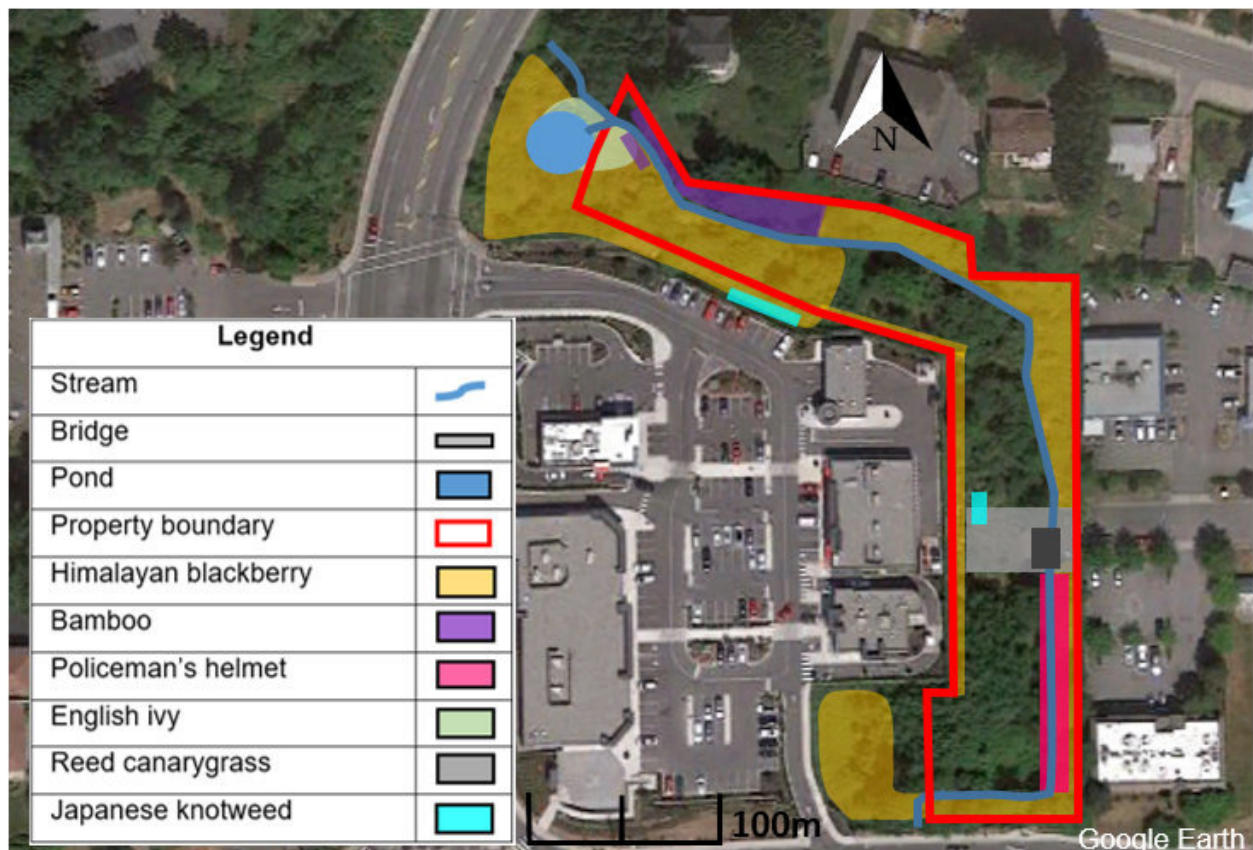
Year 1	<u>\$16,000</u>
Year 2	<u>\$13,000</u>
Year 3	<u>\$9,000</u>
Total	<u>\$38,000</u>

7. Project Partners:

- British Columbia Institute of Technology Ecological Restoration Program (project planning and labour)
- Fraser Valley Watershed Coalition (expertise and equipment)

- Mission of Streams Streamkeepers (expertise)
- Abbotsford Mission Nature Club (volunteer labour and expertise)
- University of Fraser Valley (volunteer labour)
- Fisheries and Oceans Canada (expertise)
- Pacific Salmon Foundation (funding)
- Fraser Valley Conservancy (funding)
- District of Mission (expertise and in-kind support)
- Volunteers from the community (labour)

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020Project #:2-605

PROPERTY INFORMATION

Property Name:Windebank Creek

Former Property Names, if applicable:PID #028-779-002

Region:Lower Mainland

PROPONENT INFORMATION

Project Leader:Joanne Neilson

Organization Name:Fraser Valley Conservancy (FVC)

Address:PO Box 2026

City:Abbotsford

Province:BC

Postal Code:V2T 3T8

Email:joanne@fraservalleyconservancy.ca

Phone:604-625-0066Fax:

ADDITIONAL CONTACT:

Name:Organization:

Email:Phone:

HCTF Land Stewardship Grant Proposal 2017-2020

[illegible]

2-606

Grauer Wetlands



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Ducks Unlimited Canada		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	XS -0008003		
• When was your organization legally incorporated?	May 6, 1968		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	118888957RR0001		
Address	954A Laval Crescent		
	Kamloops	BC	V2C 5P5
	City	Prov	Postal Code
Email	n.rae@ducks.ca	Organization Website	www.ducks.ca
Phone	250.374.8307 ext 228	Fax	250.374.6287

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Grauer

PID Number(s): 013-107-704, 013-107-798

Region (see [map](#)): Lower Mainland (Richmond)

Geographic Coordinates: 49°10'06.1"N 123°11'49.6"W, 10U-485580-5445370

Property Size (HA) 51.5 ha

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? 5 years

If no*, please name the NGO who has fee simple ownership of the property: _____

**Note: You must include a letter from the NGO property owner stating they support this application.* _____

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

Sturgeon Banks, together with Roberts Bank and Boundary Bay, form a large complex of intertidal habitat on the Fraser River Delta. This area is a major stop-over along the Pacific Flyway and is a designated Important Bird Area. It supports over a million migratory birds including shorebirds, waterfowl, and raptors. The entire Western sandpiper population will pass through this area during migration. Sturgeon Banks is a key wintering area for lesser snow geese that feed on sedges in the intertidal areas. Flocks of up to 20,000 individuals use the marshes and nearby farm fields.

Sturgeon Banks has been recognized by government and non-government agencies as a critical habitat for conservation for decades. Prior to 2012, the Grauer property was the largest private holding of tidal wetland along Lulu Island. In 2012, DUC and the City of Richmond purchased the property which included a significant donation from the previous landowner (Grauer Family). The donation was certified as an ecologically sensitive land (Ecogift) by Environment Canada, and justified under the following criteria: 1. Areas identified, designated or protected under a recognized classification system of the Fraser River Estuary Management Program as high productivity and Conservation Habitat and 2. Site with significant current ecological value, or potential for enhanced ecological value, as a result of their proximity to other significant properties.

3. Guiding Documents:

Management Plan for Grauer Property, Sturgeon Bank, Richmond (prepared by Ducks Unlimited Canada and City of Richmond 2012)

Sturgeon Banks WMA Plan

4. Community Engagement/ Access

DUC has engaged BCIT (restoration program) on the project through annual summer students that are monitoring different aspects of the project. DUC is also part of the Sturgeon Bank stakeholder committee looking at the leading edge of tidal wetland that is led by the Port of Metro Vancouver, Canadian Wildlife Service and Province of BC.

The property is accessible to the public through the 'West Dike Trail' and is maintained by the City of Richmond.

5. Proposed Land Management Activities:

After the securement in 2012, DUC enhanced the property by removing logs, creating channels and diversity of earth works to improve the complexity of the habitat for waterfowl, fish and other species. As part of this work, DUC began some activities to monitor/evaluate the constructed earthworks and considering different monitoring activities for estuaries. This approach has evolved into an incubator project to further develop estuary monitoring activities and capacity that are in various stages of planning and implementation for estuaries that are managed by DUC and conservation partners on the lower mainland and east coast of Vancouver Island (through the Vancouver Island Conservation Land Management Program).

Key monitoring activities include:

- Large wood debris monitoring
- Evaluation of constructed structures e.g. terraces, islands, log corrals, channels, wetland
- Vegetation and sediment
- Water quality measures e.g. salinity, water level
- Evaluate the use of drones.

Without HCTF funding, resources cannot be sustained on this project to continue being an incubator project to evaluate/refine estuary monitoring activities.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

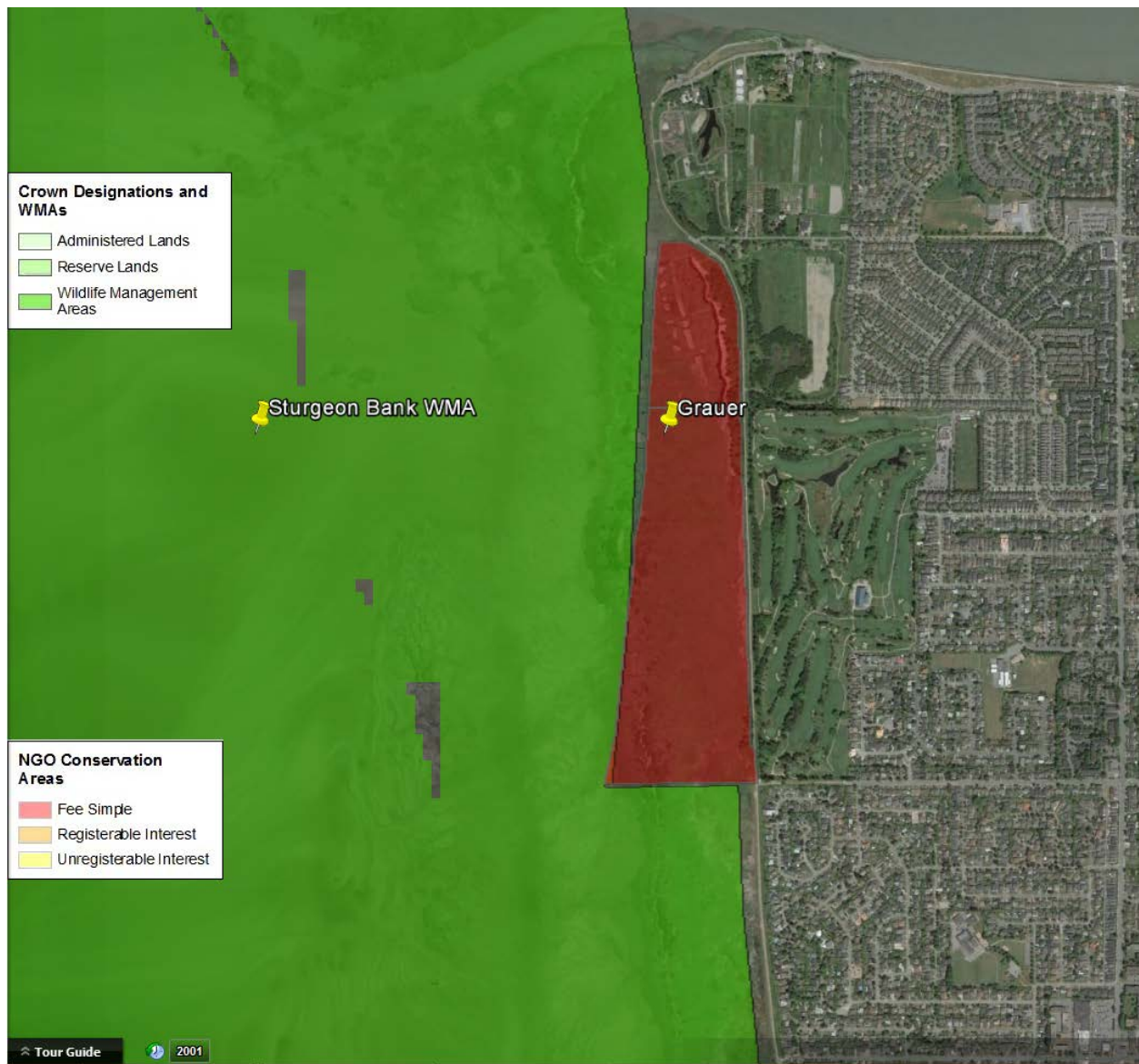
Year 1	<u>\$20,000</u>
Year 2	<u>\$20,000</u>
Year 3	<u>\$20,000</u>
Total	<u>\$60,000</u>

7. Project Partners:

Key partners on the project include: City of Richmond (expertise), BCIT (funding, expertise), Fisheries and Oceans Canada (expertise), Ducks Unlimited Canada (expertise and funding), The U.S. Fish and Wildlife Service (funding) and other partners we will work with on Vancouver Island that will benefit is the Vancouver Island Conservation Land Management Program, which has the core partners of DUC, HCTF, CWS, Prov of BC, and TNTBC.

Note: we are aware that HCTF provides fund to the VICLMP program, which has a component of estuary monitoring. This project is related but is a separate project.

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020

Project #:2-606

PROPERTY INFORMATION

Property Name:Grauer Lands

Former Property Names, if applicable:

Region:Lower Mainland (Richmond)

PROPONENT INFORMATION

Project Leader:Sarah Nathan

Organization Name:Ducks Unlimited Canada

Address:13370 78th Ave

City:Surrey

Province:BC

Postal Code:V3W 0H6

Email:s_nathan@ducks.ca

Phone:778-888-1706Fax:604-592-0930

ADDITIONAL CONTACT:

Name:Christine McNabbOrganization:Ducks Unlimited Canada

Email:c_mcnabb@ducks.caPhone:604-592-5001

HCTF Land Stewardship Grant Proposal 2017-2020

Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
<div>Grauer Property</div>			Evaluate use of UAV for estuary monitoring	Determine if aerial drones serve as an effective means of monitoring vegetation growth, elevation, and woody debris accumulations in estuaries	Fly the Grauer property with UAV equipped with hyperspectral imaging camera and LiDAR; compare with data collected by ground survey. Evaluate effectiveness of UAV data for estuary monitoring. Data collected at Grauer will be part of a larger trial on use of UAV for estuary monitoring being conducted at a variety of estuary sites in the Lower Mainland and on Vancouver Island.	Hire Center for Applied Remote Sensing Modelling and Simulation to fly Grauer property with hyperspectral imagery and lidar equipped drone On the ground validation of drone data: vegetation monitoring, and elevations tie-in using DUC's RTK Compare data collected using ground surveys to drone data and evaluate if drone data collection is more efficient. Collect sediment elevation table data twice each year at the Grauer property. Sediment elevation tables are used to measure sediment accretion and erosion; processes that contribute to changes in estuary elevation. Thus this activity is part of the groundtruthing for UAV.
CAPITAL ASSETS						
ITEM	PURPOSE	TOTAL	Mentor BCIT students on student projects	Provide undergradtuate students with an opportunity to learn about ecosystem restoration and adaptive management by working with DUC staff.	At least one undergraduate or graduate student will complete a degree-requirement project related to this work	Students recieve mentorship from DU staff on estuary monitoring techniques Annual summer student funding (x2 years) for work at the site.
Total:	\$20,650.00					
Admin Fee %	0%					
Admin Fee \$	\$0.00					
3 Yr Total incl Admin Fee:	\$20,650.00					

4-548

Elk Valley Heritage Conservation Area



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	The Nature Conservancy of Canada (NCC)		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	XS-33684		
• When was your organization legally incorporated?	November 28, 1962		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	11924 6544 RR0001		
Address	200-825 Broughton Street		
	Victoria	BC	V8W 1E5
	City	Prov	Postal Code
Email	chris.perrin@natureconservancy.ca	Organization Website	www.natureconservancy.ca
Phone	250.479.3191 ext. 244	Fax	250.479.0546

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name:	Elk Valley Heritage Conservation Area		
PID Number(s):	011-826-126; 011-826-185; 011-836-865; 011-836-881; 013-765-566; 023-981-245		
Region (see map)	4 – Kootenay		
Geographic Coordinates:	49.614586N, 114.935923W		
Property Size (HA)	1,214 HA		
Does your organization have fee simple ownership of this property?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
If yes, how long has your organization owned this property?		12 years (since 2004)	
If no*, please name the NGO who has fee simple ownership of the property:			
<i>*Note: You must include a letter from the NGO property owner stating they support this application.</i>			
Have you received HCTF funding for the property or activities on the property?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

2. Habitat Description / Values:

NCC manages fee-simple land located along the valley floor of the Elk River from Elko to Sparwood.

The Elk River Valley is an area of global conservation significance. It is one of only a few places in North America that supports an intact faunal assemblage (Sanjayan et al. 2012). The area supports a full complement of native predators including: Gray wolf, cougar, bobcat, American Marten, black bear, wolverine, lynx, and American badger. Supporting this guild are large ungulates including: elk, mule deer, white-tailed deer, moose, mountain goat, bighorn sheep and small mammals. The Elk Valley is a stronghold for important wide-ranging species such as grizzly bear (MFLNRO 2012). Identified wildlife corridors in the Natural Area support both east/west and north/south movement of populations.

Low-elevation floodplains offer deciduous riparian areas with black cottonwood trees that are up to 400 years old (Rood & Polzin 2003), as well as ecologically important mixed coniferous forests that support species like Western screech owl. The Elk River supports important habitat for two fish species-at-risk: Bull trout and Westslope cutthroat trout.

3. Guiding Documents:

- Elk River Conservation Area Baseline report
- Elk River Conservation Area Property Management Plan 2010 - 2015

4. Community Engagement/ Access

NCC allows access to the EVHCA for hunting and angling. The multi-use Coal Discovery Trail traverses the Hosmer parcel between Fernie and Sparwood.

NCC has a developed trail called the Ancient Cottonwood Trail near Morrissey. It is a one kilometer interpretive trail through a stand of the oldest known Cottonwoods in the world.

5. Proposed Land Management Activities:

- Year 1: Completion of a second generation Property Management Plan;
- Years 2 and 3: Implementation of stewardship activities listed in existing PMP and Second Phase Property Management Plan.

6. Amount Requested from HCTF:

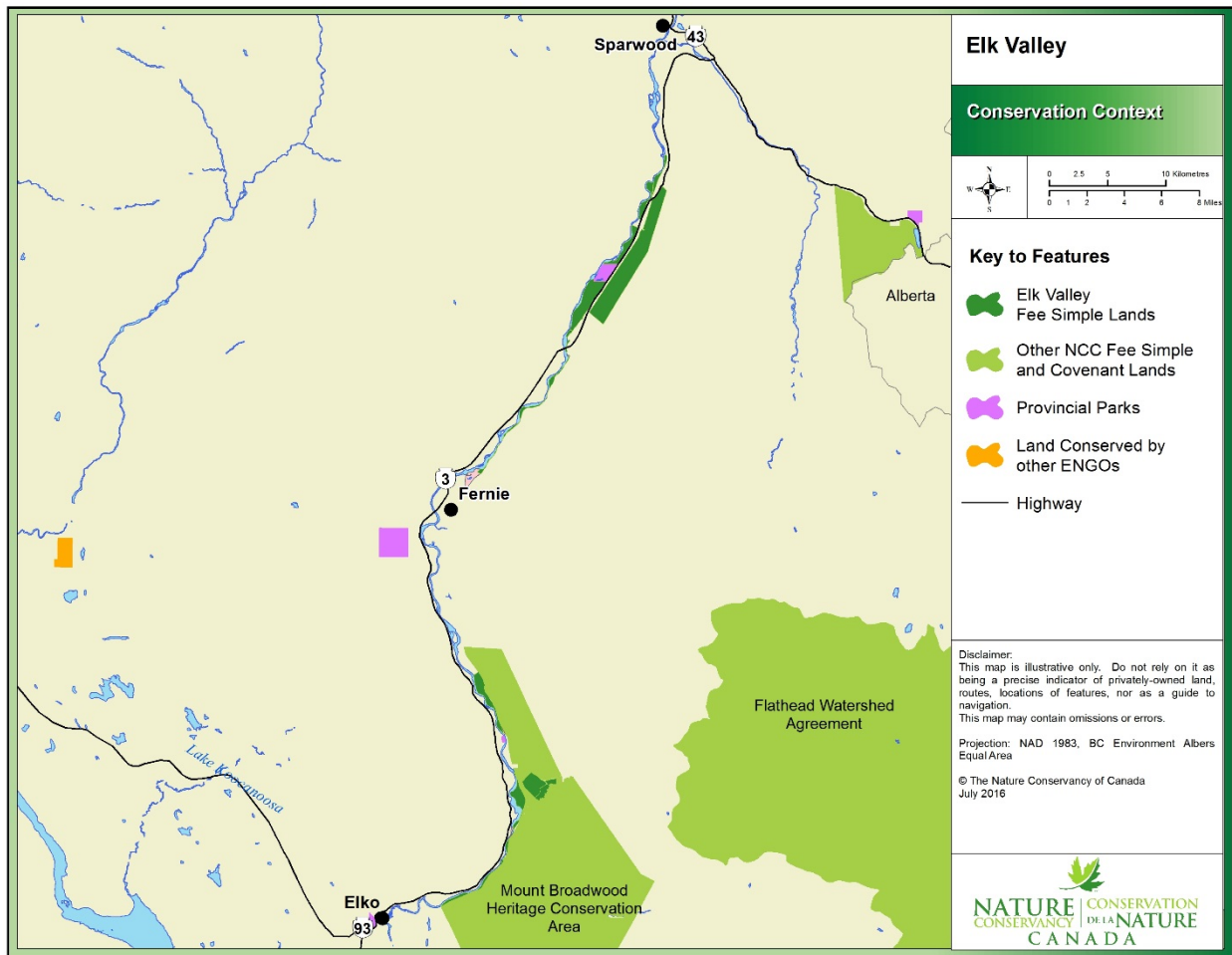
Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>\$15,000</u>
Year 2	<u>\$10,000</u>
Year 3	<u>\$10,000</u>
Total	<u>\$35,000</u>

7. Project Partners:

NCC will consult with biologists from Canfor, the Fish and Wildlife Compensation Program, FLNRO and independent wildlife and plant specialists. We will also work closely with the Sparwood and Fernie Rod and Gun Clubs.

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020

Project #:4-548

PROPERTY INFORMATION

Property Name:Elk Valley Heritage Conservation Area

Former Property Names, if applicable:

Region:4 - Kootenay

PROPONENT INFORMATION

Project Leader:Chad Townsend, Program Director, Canadian Rocky Mountains

Organization Name:The Nature Conservancy of Canada (NCC)

Address:200-825 Broughton Street

City:Victoria

Province:British Columbia

Postal Code:V8W 1E5

Email:chad.townsend@natureconservancy.ca

Phone:(250) 342-5521Fax:(250) 479-0546

ADDITIONAL CONTACT:

Name:Richard KlafkiOrganization:The Nature Conservancy of Canada, Canadian Rocky Mountains Program

Email:richard.klafki@natureconservancy.caPhone:250-342-5521

HCTF Land Stewardship Grant Proposal 2017-2020

Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
<div>Elk Valley Conservation Area</div>			Reflect conservation management strategies set forth in Elk/Flathead Natural Area Conservation Plan (NACP)	Specific planning for this suite of sites and their varied threats	Completion of a Second Phase Property Management Plan	update 2010 baseline inventory study, collaborate with local partners (Year 1)
						reassess ecological threats (see attached) and conservation priorities to better inform stewardship activities on site (Year 1)
						action planning (Year 1)
			Reflect conservation management strategies set forth in Elk/Flathead Natural Area Conservation Plan (NACP)	Implement updated Property Management Plan	Increase awareness of ecological sensitivity among property visitors, while implementing the conservation and stewardship strategies as outlined in the Property Management Plan	motorized recreation access management through route decommissioning, signage, and local awareness (Years 1 to 3)
						gravel pit restoration wetland plan implementation (Years 1 to 3)
						invasive plant treatment (Years 1 to 3)
<div>Property Vision and/or Overall Management Goals for Property:</div> The Elk River Valley properties have a range of issues to address (see attached example photos). Goals include: to maintain and enhance cross-valley animal movement corridors; reclamation of commercial gravel extraction sites; control of invasive plant species, and; the provision of local, non-motorized recreation access.						
CAPITAL ASSETS						
ITEM	PURPOSE	TOTAL				
Total:	\$35,000.00					
Admin Fee %	0%					
Admin Fee \$	\$0.00					
3 Yr Total incl Admin Fee:	\$35,000.00					

4-549

Dutch Creek Hoodoos



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	The Nature Conservancy of Canada (NCC)		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	XS-33684		
• When was your organization legally incorporated?	November 28, 1962		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	11924 6544 RR0001		
Address	200-825 Broughton Street		
	Victoria	BC	V8W 1E5
	City	Prov	Postal Code
Email	chris.perrin@natureconservancy.ca	Organization Website	www.natureconservancy.ca
Phone	250.479.3191 ext. 244	Fax	250.479.0546

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Dutch Creek Hoodoos

PID Number(s): 017-406-951

Region (see [map](#)): 4 – Kootenays

Geographic Coordinates: 50.313100, -115.890071

Property Size (HA) 25.10 HA

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? Since 2005

If no*, please name the NGO who has fee simple ownership of the property: _____

**Note: You must include a letter from the NGO property owner stating they support this application.* _____

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

The Dutch Creek Hoodoos property was donated to the Nature Conservancy of Canada in 2005 by Jim and Gaetane Ashworth. The 27 HA property is dominated by the iconic geological feature known locally as the Dutch Creek Hoodoos.

The property is located in the Interior Douglas-fir zone, one of the most threatened zones in the Province. Cliff and open forest habitat support habitat for several at-risk species, including: White-throated swifts, badger and Hooker's townsendia. The area also provides valuable low elevation ungulate winter range for mule deer and elk.

In addition to protecting the sensitive habitat, the property borders the Hoodoo Hofert conservation property thereby enhancing the conservation values and connectivity values on the north end of Columbia Lake and western shore of Windermere Lake.

3. Guiding Documents:

- Baseline Inventory of the Hoodoos
- Hoodoos Property Management Plan 2010 – 2015

4. Community Engagement/ Access

The Dutch Creek Hoodoo property is a popular wildlife/scenic viewing destination for both local residents and tourists. There is a 2 km hiking trail from Westside Road to the top of the Hoodoos. It is easily accessible and there is a parking lot developed at the bottom of the hiking trail. Common uses include: hiking, biking and bird-watching. Resorts in the Fairmont area often direct guests to this experience in nature.

5. Proposed Land Management Activities:

- Year 1: Completion of a Second Phase Property Management Plan;
- Years 2 and 3: Implementation of stewardship activities including trail rehabilitation and marking.

6. Amount Requested from HCTF:

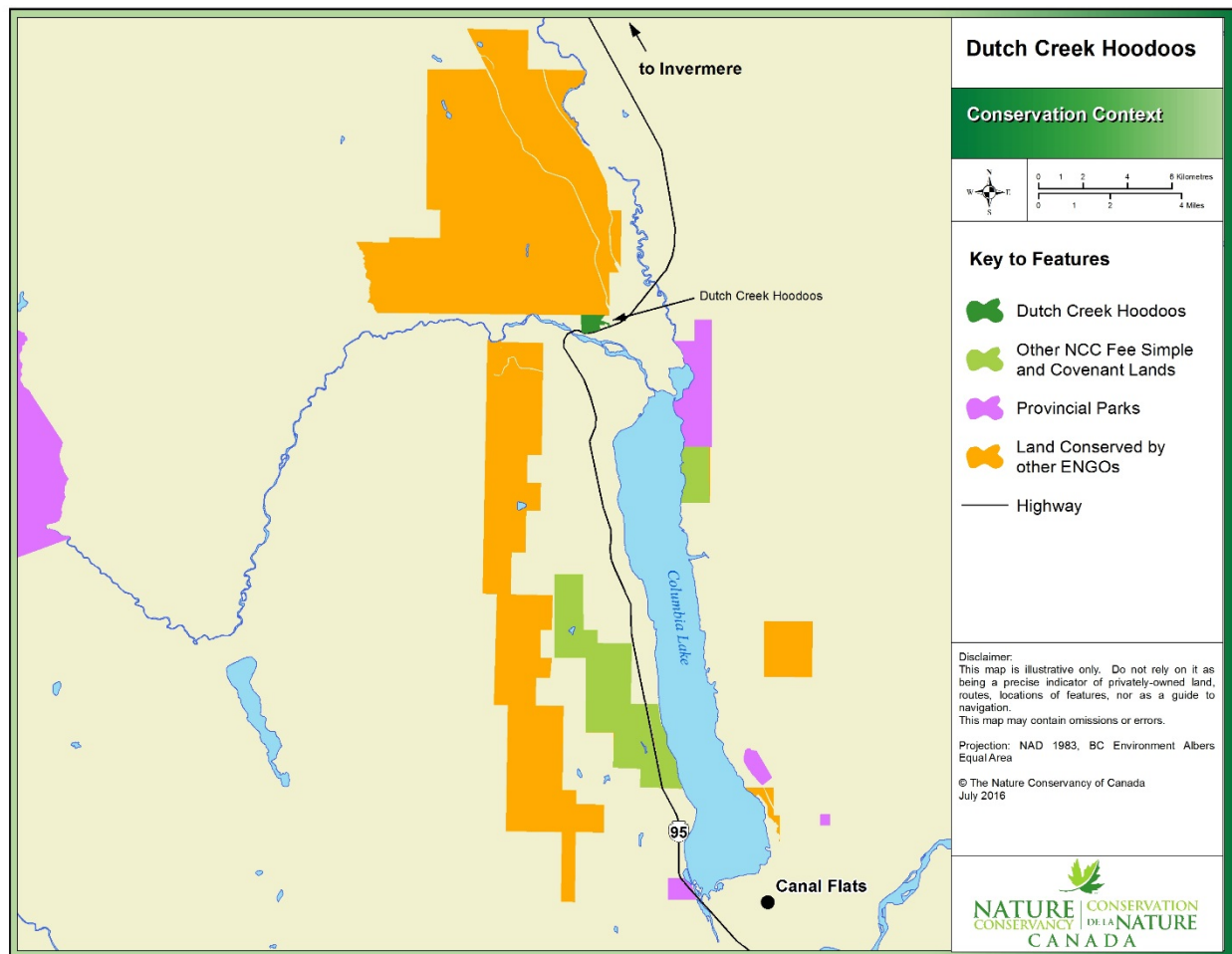
Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>\$10,000</u>
Year 2	<u>\$5,000</u>
Year 3	<u>\$1,000</u>
Total	<u>\$16,000</u>

7. Project Partners:

NCC will continue to collaborate with its local partners including The Nature Trust of British Columbia to ensure there is public access to the Hoodoos and also ensure conservation values are managed in a compatible and collaborative manner.

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle:2017-2020

Project #:4-549

PROPERTY INFORMATION

Property Name:Dutch Creek Hoodoos

Former Property Names, if applicable:

Region:4 - Kootenays

PROPONENT INFORMATION

Project Leader:Chad Townsend, Program Director, Canadian Rocky Mountains

Organization Name:The Nature Conservancy of Canada (NCC)

Address:200-825 Broughton Street

City:Victoria

Province:British Columbia

Postal Code:V8W 1E5

Email:chad.townsend@natureconservancy.ca

Phone:(250) 342-5521Fax:(250) 479-0546

ADDITIONAL CONTACT:

Name:Richard KlafkiOrganization:The Nature Conservancy of Canada, Canadian Rocky Mountains Program

Email:richard.klafki@natureconservancy.caPhone:250-342-5521

HCTF Land Stewardship Grant Proposal 2017-2020



Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities
Dutch Creek Hoodoos			Reflect the Rocky Mountain Trench Natural Area Conservation Plan (NACP)	Specific planning to handle increased human traffic for this increasingly popular site	Completion of a Second Phase Property Management Plan	update 2010 baseline study, install visitor counters, collaborate with local partners (Year 1)
						reassessing ecological threats and conservation priorities (Year 1)
						action planning (Year 1)
			Native vegetation and soils management	Reduce visitor-caused erosion	Implementation of stewardship activities including trail rehabilitation and marking	plan for preferred trail marking, directional signage, and braided trail decommissioning (Years 1 and 2)
						design appropriate informational and indicative signage (Year 1)
						fabrication of and installation of interpretive signage on trails throughout property, trail rehabilitation (Years 1 to 3)
Property Vision and/or Overall Management Goals for Property: The Dutch Creek Hoodoos was donated to the Nature Conservancy of Canada in 2005. It is an easily accessible geological wonder with First Nations cultural significance, that is popular amongst the many who live in and visit the Columbia Valley (see attached). NCC's management goal for this conservation land is to protect it in perpetuity, provide a quality site appreciation experience, but limit the effects of recreation on native vegetation and wildlife.			Education and Awareness	Increase visitor respect for the site through understanding, appreciation, and NCC onsite profile	A series of 4 quality, engaging on-site interpretation panels	plan locations and content for series: geology, Ktunaxa creation story, Columbia Lake north development and Lot 48 (Years 1 and 2)
						design appropriate interpretation signs to increase visitor understanding of the sensitivity of the ecosystem (Years 1 and 2)
						fabrication and install interpretive panels on-site, including at entrances to the conservation property (Year 2)
CAPITAL ASSETS						
ITEM	PURPOSE	TOTAL				

5-288

Elkin Creek Nature Preserve



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Valhalla Foundation for Ecology		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-0037854		
• When was your organization legally incorporated?	1998		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	BSN 86847 5641 RR0001		
Address	208 Laktin Road		
	City New Denver	Prov BC	Postal Code V0G1S1
Email	waynem@vws.org	Organization Website	Don't have one
Phone	250-358-7796	Fax	250-358-7796

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: ELKIN CREEK NATURE PRESERVE

PID Number(s): DL 7381 (PID 013-387-642); DL 7742 (PID 013-509-276)

Region (see [map](#)) 5

Geographic Coordinates: Cariboo, J. 51.673514 -123.787434

Property Size (HA) 97.2 ha

Does your organization have fee simple ownership of this property? Yes ☒ No ☐

If yes, how long has your organization owned this property? 11 and 8 years

If no*, please name the NGO who has fee simple ownership of the property: _____

**Note: You must include a letter from the NGO property owner stating they support this application.*

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

1. The Valhalla Foundation (VF)'s Elkin Creek Nature Presere has very high habitat diversity including large wetland/marsh complex, bluebunch wheatgrass hillsides, rare-native bluegrass bottomland meadows, old stream meanders and important spawning/rearing habitat for 13 species of fish (Chinook salmon and 12 freshwater species). The property thus hosts incredible biodiversity including and array of marsh-parkland bird species (migrant and resident), potential sharp-tailed grouse recovery habitat, grizzly bears, wolves, mountain lions, moose and other species. Our overall goal is preservation of very high wetland values and other habitats, freshwater and anadromous fish habitat, grizzly bears, moose winter range and species at risk. The property encompasses a major wildlife corridor along Elkin Creek.

2. Property was purchased to prevent private land development for summer homes/strata and/or cattle ranch in order to preserve major wetland, wildlife, wildlife connectivity and species at risk habitats.

3. Guiding Documents:

1. Elkin Creek Nature Preserve Inventory & Stewardship plan – draft Work in Progress.

2. Report: Issues Related to Restricting Cattle Access to Valhalla Lands at Captain George Town. 2010. A. Dobbs, Agrologist.

3. Report: Xeni Gwet'in First Nations Access Management Plan: (McCrory, W. 2005a. Proposed access management plan for Xeni Gwet'in First Nations Caretaker Area, Chilcotin, B.C.)

4. Community Engagement/ Access

We have involved the local community and several conservation groups in the purchase initiative and stewardship program of the property that includes the two adjoining old ranchstead District Lots. We own these as fee simple lands.

Our main coordination is with the Xeni Gwet'in First Nation and their Caretaker Area. The main conservation groups we coordinate with are Friends of Nemaiah Valley (FONV) and Valhalla Wilderness Society (VWS). In addition, we have also coordinated access and management issues with the local trapper and past cattle grazing issues with Elkin Creek Guest Ranch. Current cattle grazing issues are with Raphel William. We also coordinate with BC Parks and the Xeni Gwet'in ranger re-access to Nunsti Provincial Park.

The property has a large, informational sign at the south access, is currently non-gated and generally accessible to the public for motorized and non-motorized access (including horseback) to Nunsti Provincial Park (about 4 km away) and other lands beyond. We also make our research/caretaker cabin available as a stop-over for local First Nations, BC Parks, the public hiking into Nunsti Park, researchers, donors and others. People hunting moose can use our property for access to hunting areas beyond but hunting on the nature preserve is closed. Public fishing, wildlife viewing, bear photography, traditional aboriginal uses (except hunting and trapping) and other similar uses are allowed.

5. Proposed Land Management Activities:

Over the next 3 years we wish to finalize all of the main stewardship activities we have undertaken over the previous decade. Our priorities are:

- Complete the “ecological” fencing project to prevent damage to riparian areas and native bluegrass meadows from free-range cattle that use legal grazing areas surrounding the property. Includes final removal of ½ km of old barbed wire fence that threatens wildlife, having already removed ½ km.

- Complete boundary survey and mark with permanent metal posts.
- Complete long-term stewardship plan, currently an on-going work-in-progress. This would include a fisheries survey and mapping/inventory of the wetlands including an assessment of rare and endangered plant and animal communities. This will be done by scientific experts in the field with and the local Xeni Gwet'in researchers.
- Complete final stage of our nearly-complete caretaker/research cabin facility.

Our biggest challenge and priority stewardship issue is the past and current riparian damage currently being caused by free-range cattle, including to fish spawning habitat. Our 2010 consultant's report concluded that we are legally obligated to fence the cattle off of our private lands. However, fencing the whole 240 acres would block important wildlife connectivity values and be too expensive. We started some riparian area fencing 4-5 years ago but the costs to fence off the main riparian area and bluegrass meadows where most of the cattle trespass damage was done then. Then cattle were not run in the area for 3-4 years but commenced again last year. Fencing costs for us right now and is prohibitive even though the damage is unacceptable. This damage is of high risk to continue if we don't get HCTF funding.

The funding required to undertake the fisheries inventory and wetland mapping and inventory is very important for completion of the stewardship plan. Without funding this component is a moderate risk for not being completed. However, we feel we can complete the other aspects by raising our own funds from donors.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

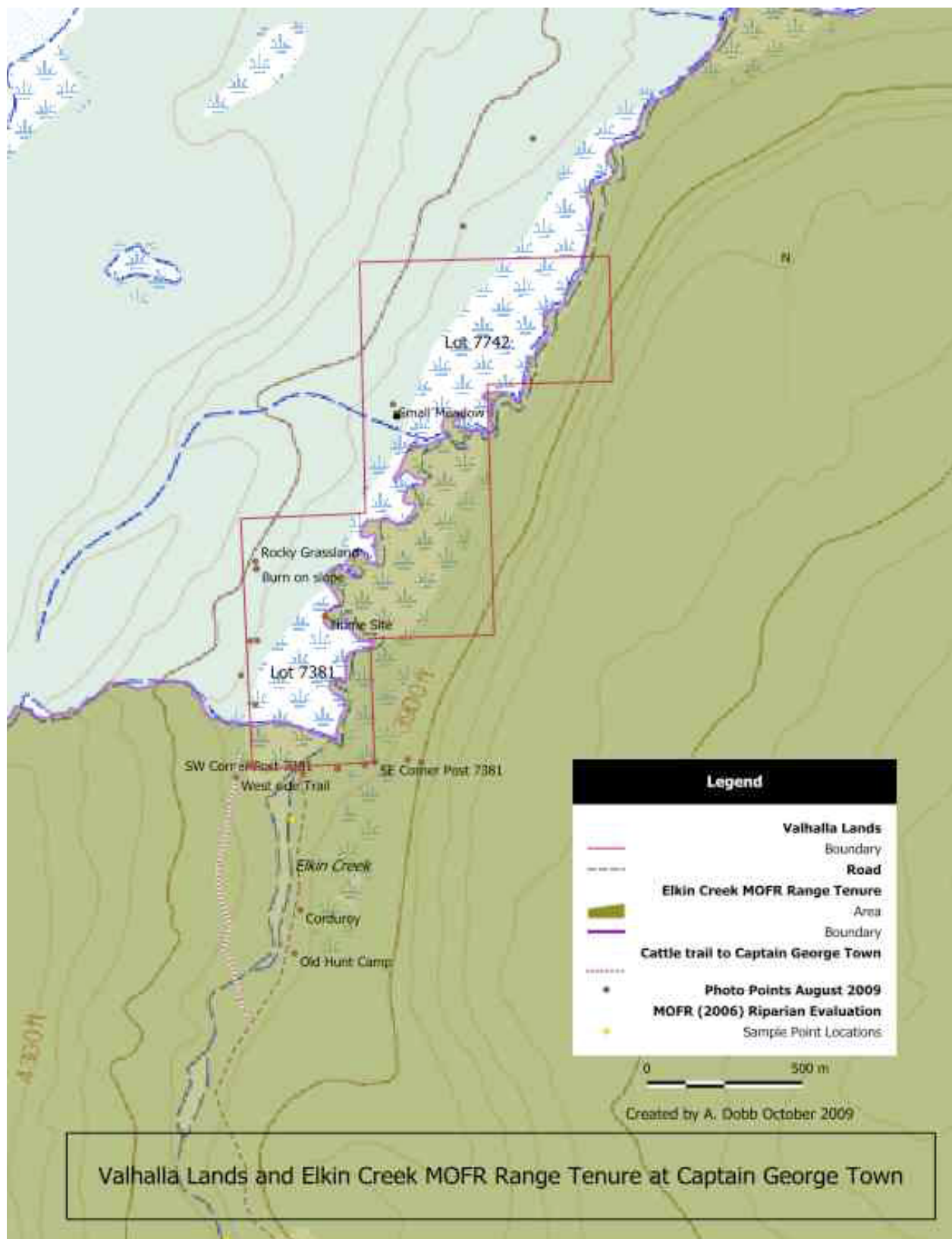
Year 1	<u>\$20,000</u>
Year 2	<u>\$10,000</u>
Year 3	<u>\$5,000</u>
Total	<u>\$35,000</u>

7. Project Partners:

VF is a small land trust with a small donor base and so we keep our coordination simple. We estimate our total project stewardship completion costs to be \$45,000. The

project partners will be the Valhalla Wilderness Society (VWS) and Friends of Nemaiah Valley (FONV), with input and coordination with the Xeni Gwet'in First Nations. Both NGO organizations have been and will be continuing to provide a small amount of funding and volunteer support. We have our own expertise based on our 2010 cattle grazing/fencing report and will use our consulting agrologist Allen Dobbs where necessary. RPBio. Wayne McCrory, the VF coordinator for the Elkin Creek Nature Preserve Project, has extensive experience in wildlife research and management in the area. We plan on hiring a plant ecologist and fisheries biologist to do the wetland assessments for our stewardship plan. VF plans on raising and contributing \$10,000 to complete the stewardship projects outlined.

8. Property/Complex Map



Please email completed LOIs to jane.algard@hctf.ca

Funding Cycle: 2017-2020

Project #: 5-288

PROPERTY INFORMATION

Property Name: Elkin Creek Nature Reserve

Former Property Names, if applicable: _____

Region: Cariboo

PROPONENT INFORMATION

Project Leader: Wayne McCrory, RPBio

Organization Name: Vlalhalla Foundation for Ecology

Address: 208 Laktin Road

City: New Denver

Province: BC

Postal Code: VOG 1S1

Email: waynem@vws.org

Phone: 250-358-7796 Fax: _____

ADDITIONAL CONTACT:

Name: _____ Organization: _____

Email: _____ Phone: _____

HCTF Land Stewardship Grant Proposal 2017-2020

[illegible]

5-289

Scout Island Nature Centre



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program. Detailed instructions for filling out this form are available here: if you have further questions, please contact HCTF by calling 250 940 9781 or email jane.algard@hctf.ca

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Organization Name	Williams Lake Field Naturalists/Scout Island Nature Centre		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	S-0013178		
• When was your organization legally incorporated?	1971		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	119298644RR0001		
Address	1305A Borland Road		
	Williams Lake	B.C.	V2G 5K5
	City	Prov	Postal Code
Email	shemphill@xplornet.com	Organization Website	www.williamslakefieldnaturalists.ca and www.scoutislandnaturecentre.ca
Phone	250 398 8532	Fax	

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name: Scout Island

PID Number(s): 007-008-261; 005-913-691; 011-645-792; 015-287-165

Region (see [map](#)) Cariboo

Geographic Coordinates: 52°07'10" N 122°07'12" W

Property Size (HA) 10 hectares

Does your organization have fee simple ownership of this property? Yes ☐ No ☒

If yes, how long has your organization owned this property? _____

If no*, please name the NGO who has fee simple ownership of the property: The Nature Trust of British Columbia

**Note: You must include a letter from the NGO property owner stating they support this application.* _____

Have you received HCTF funding for the property or activities on the property? Yes ☐ No ☒

2. Habitat Description / Values:

Scout Island is a complex of conservation land acquired by The Nature Trust of B.C. between 1973 and 1988 (Map 1). The property is managed by the Williams Lake Field Naturalists, with support from the City of Williams Lake.

The conservation area includes a complex of wetland and upland habitat on Williams Lake, connected by a causeway to the mainland. The upland components of the property include grassland and shrub habitats commonly associated with the Interior Douglas-fir biogeoclimatic zone, while the wetland components contain good examples of shallow open water and deep cattail marsh, with a foreshore interface of willow and meadow habitat. This ecological diversity provides excellent habitat for a wide variety of flora and fauna. A variety of waterfowl and other birds use Scout Island for feeding, resting during migration, and nesting. The private conservation area is also surrounded by a Reserve for Conservation, Recreation and Habitat Preservation, designated by the Province in 1984 (Map 2).

This conservation area was acquired to maintain and enhance the habitat values of the property, while providing the public with opportunity for nature appreciation and education.

3. Guiding Documents:

1980, Gary Runka report outlining the ecological, educational and other values of the Nature Centre wetlands,

1982 Marsh Management Plan

1984, the Cabinet of British Columbia approved Order in Council #8 (Reserve #84680 for Conservation, Recreation and Habitat Preservation)

2004 Scout Island Nature Centre Management Plan

4. Community Engagement/ Access

Since 1978, the Williams Lake Field Naturalists (WLFN) have operated the Scout Island Nature Centre on this conservation property. The WLFN is a group of volunteers who are very active in stewarding the property and encouraging public participation in land management activities.

The Nature Centre is an important educational resource for the people of Williams Lake. Since its inception, many thousands of school children have taken part in nature appreciation and outdoor classroom activities here. The site is also visited regularly by the general public and tourists.

The Scout Island conservation property is open to the public for nature appreciation and education opportunity, as well as for casual recreation. A series of trails and boardwalks ensure that visitors are directed to specific portions of the property, so as to minimise disturbance to plants and wildlife. Access to Scout Island, beyond the public parking area, is by foot access only. People walk the trails 24 hours, but there is a locked gate at night preventing vehicle traffic, and a caretaker on site. This provides a safe place for people to enjoy nature right in the middle of the city.

5. Proposed Land Management Activities:

The activities planned for the next 3 years through this project are as follows.

- 2017-2018 – Contract an invasive species specialist to produce an Invasive Plant Management Plan for Scout Island, including mapping of all invasive plant infestations on the property, and providing options for treatment and prevention activities (planting trees and shrubs in disturbed areas for example). We will also consider a plan for controlling the effects of the increase in the population of Canada Geese.
- 2018-2019 – Implement the Invasive Plant Management Plan produced in Year 1.
- 2019-2020 – Further implement the Invasive Plant Management Plan and assess progress.

Over the past several years, invasive plants including: Canada thistle *Cirsium arvense*, burdock *Arctium minus*, stickseed *Lappula squarrosa*, and night shade *Solanum dulcamara* have been intruding into the property, impacting the natural ecology of the conservation area. In addition, the tremendous increase in the geese population has disturbed the west end of the property especially. The geese graze the established grasses so that they can not grow

to full height. The burdock, thistle and stickseed are then able to establish and have formed extensive patches. Volunteers have dug and pulled weeds (spraying is not possible because of the surrounding water) and planted native trees and shrubs for many years, but this is no longer controlling the spread. Without the development of an Invasive Plant Management Plan, this infestation will become worse, greatly impacting the long-term viability of the natural habitat on this important conservation area. Land nesters like mallards and widgeons can no longer find appropriate habitat. Equally important, these weeds are making it unpleasant (and unsafe – nightshade is poisonous) for children to be in certain areas of the nature centre. Our programs encourage exploring and no child wants to explore in thistle. The nature centre is losing both conservation and nature education values because of these invasives.

6. Amount Requested from HCTF:

Please estimate the amount you require from HCTF to successfully complete the activities listed in #5. If requested to submit a full proposal for this property, you will be asked to provide a more detailed budget for your planned activities.

Year 1	<u>\$12,000</u>
Year 2	<u>\$12,000</u>
Year 3	<u>\$12,000</u>
Total	<u>\$36,000</u>

7. Project Partners:

- City of Williams Lake /Cariboo Regional District - anticipated contribution of staff/contractor time in providing planning input and coordinated treatment of invasive plants. Some funding through our Fee for Service for Trials System
- Cariboo Chilcotin Coast Invasive Plant Committee – expertise especially with non-chemical means of control- planning input
- Invasive Species Council of British Columbia – expertise-planning input and treatment
- The Nature Trust of British Columbia – expertise-planning input
- Students from local high school –volunteer labour (members of the Environmental Clubs and the grade 7 Outdoor Education class)
- WLFN and community members-volunteer labour, materials, expertise

8. Property/Complex Map



Map 1. Scout Island private conservation land parcels (in red). This property is located within the City of Williams Lake.

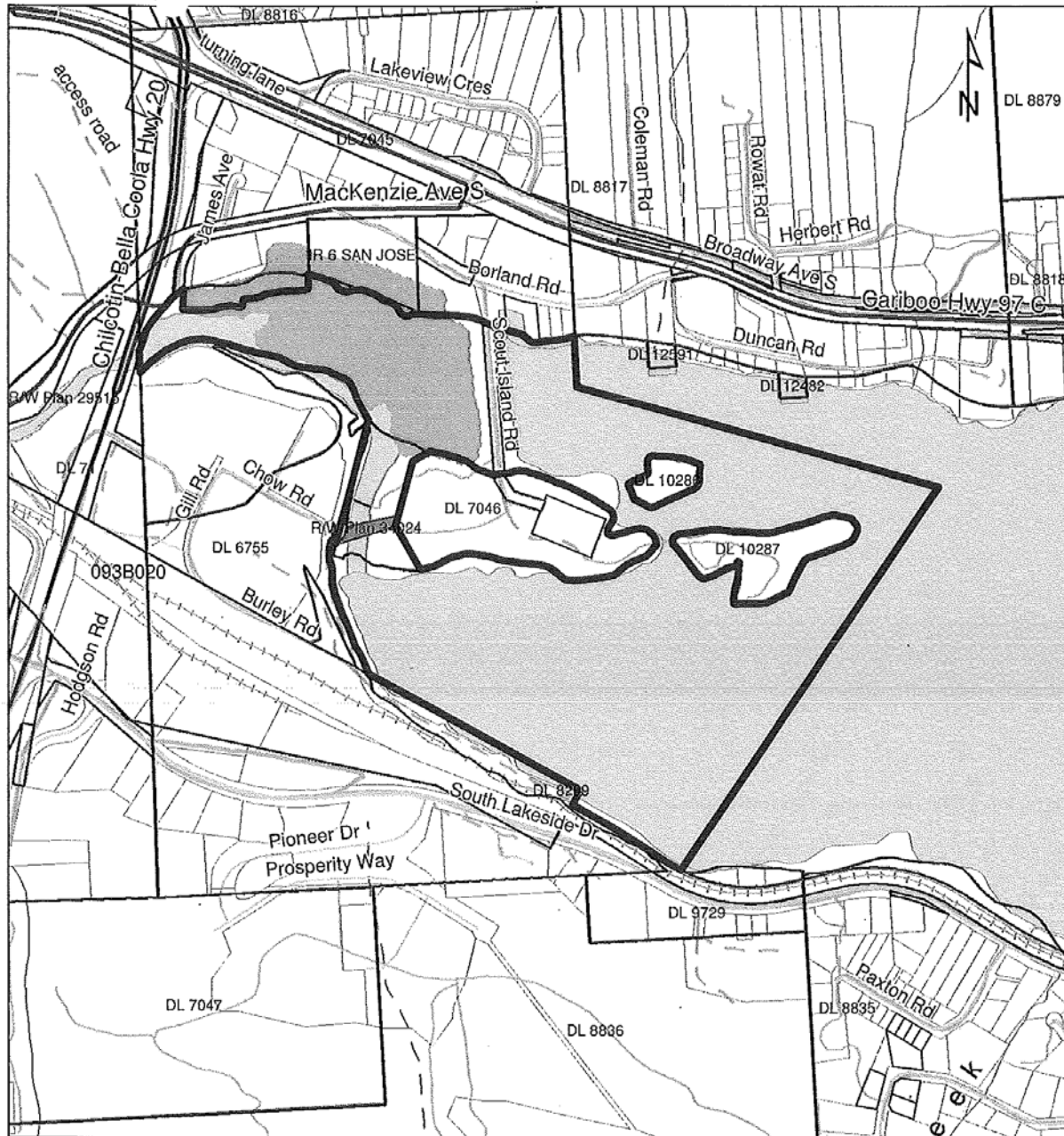
Reserve

LOCATION MAP

File Number: 5402831

Disposition Number: 912009

UNSURVEYED PORTION OF LOT 7046 SHOWN AS DIVERSION CHANNEL ON PLAN 16991 AND THE UNSURVEYED CROWN FORESHORE OR LAND COVERED BY WATER BEING PART OF THE BED OF WILLIAMS LAKE, CARIBOO DISTRICT, IN THE VICINITY OF SCOUT ISLAND, CONTAINING 61.303 HECTARES MORE OR LESS



Mapsheets: 93B020

Scale: 1:10,000

Map Reserve

Page ____ of ____

Map 2. Reserve for Conservation, Recreation and Habitat Preservation at Scout Island

Funding Cycle:2017-2020

Project #:5-289

PROPERTY INFORMATION

Property Name:Scout Island Nature Centre

Former Property Names, if applicable:

Region:Cariboo

PROPONENT INFORMATION

Project Leader:Susan Hemphill

Organization Name:Williams Lake Field naturalists/Scout Island Nature Centre

Address:1305A Borland Rd

City:Williams Lake

Province:BC

Postal Code:V2G 5K5

Email:shemphill@xplornet.com

Phone:250 398 8532

Fax:na

ADDITIONAL CONTACT:

Name:Carl Macnaughton

Organization:Nature Trust of British Columbia

Email:cmacnaughton@naturetrust.bc.ca

Phone:1 866 288 7878

HCTF Land Stewardship Grant Proposal 2017-2020



Property/Complex Name:			Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities			
Scout Island Nature Centre			Decrease the area covered by invasive plant species	Plan developed that details a multi year process that includes:species inventory; distribution ; control/mitigation measures; monitoring plan	Plan is successful in guiding the work carried out over the next 3 years	Invasive plant specialist does species inventory and distribution with support from staff Specialist researches and suggests mitagation/control techniques that is developed into a 2-3 year work plan with input from Field Naturalists Monitoring plan is designed by specialist and staff and contractor begins mitigtion steps taken late summer of 2017			
			Decrease the area covered by invasive plant species	Targeted Invasive plants are removed	Incidence of Burdock, Stickseed, yellow toad flax, tansy, and Nightshade is reduced by 50%	Contractor uses agreed mitigation techniques for burdock, toadflax, night shade, tansy, and stick weed			
						contractor and staff monitor success of techniques and alter focus if needed 2019			
						contractor and staff design a plan for controll of these species after 2020			
Overall Management Goals for Property: 1. conserve and restore the important wetland and upland habitat for wildlife, 2. provide a natural place for viewing and apreciating wildlife, facilitated by a system of walking trails within an urban setting, and 3. offer nature education and interpretation to all ages. The nature centre is on the migration path of hundreds of species of birds making this a prime site for bird watching spring and fall. Because of the varied habitats, numerous species of birds nest here and others come here to feed including white pelicans and double crested cormorants. Painted turtles, mink, mule deer and otters are commmon.				Patches of Canada Thistle and mustard species are removed and incidence controlled	areas dominated by Canada thistle and mustard are removed and incidental Canada Thistle are controlled so patches do not form and spread	contractor uses agreed mitigation for Canada Thistle and mustard species			
						contractor and staff monitor success of techniques and alter focus if needed 2019			
						contractor and staff design a plan for controll after 2020			
				Geese over grazing and disturbance reduced	geese are no longer overgrazing so that native shrub species can establish	contractor and staff research techniques to deterring geese from overgrazed areas and consult with MOE (exclasures, planting of shrubs...) and decide a technique to trial			
						inform public of plan			
						trial 2018-2019 and assess results			
			CAPITAL ASSETS				Plant native trees and shrubs and enhance growth of native plants already in place.		purchase 1 year old native shrubs and start some from seed (2017) and grow for 1 year in pots
			ITEM	PURPOSE	TOTAL				

			Restore areas dominated by invasive plants		areas previously dominated by Canada Thistle and mustard specieshave established native trees and shrubs growing	transplant shrubs and trees (already growing in our nursery) into areas cleared of thistle and mustard
						water and keep herbacious growth low to mitigate competiton 2018-2020 so that shrubs and trees can establish.
			Community committed to maintaining and enhancing wildlife habitat	Classes, School Environmental Groups, and general community engage in stewardship of Scout Island Nature Centre	classes, groups, and individuals will have adopted areas of the Nature Centre to monitor invasive plants, remove invasive plants, and enhance the native plants.	assign designated areas to interested groups and individuals based on groups skill level and train them to assess the baseline (workshop on invasives and native species) for their adopted section -2017
						weeds removed from each adopted site under the direction of staff and area native species planted or cared for 2018-2019
<div>Total: \$33,000.00</div> <div>Admin Fee % 10%</div> <div>Admin Fee \$ \$3,300.00</div> <div>3 Yr Total incl Admin Fee: \$36,300.00</div>						adopted sites monitored for changes and groups decide how to maintain their site to keep invasives out or at a managable level.

8-414

Quintal Floodplains



HCTF Land Stewardship Grants

LETTER OF INTENT

Please submit a separate Letter of Intent for each property/complex for which you are applying for O&M funding under this program.

Funding Cycle: 2017-2020

PROPONENT INFORMATION

Contact	Nichole Rae		
Organization Name	Ducks Unlimited Canada (DUC)		
Is your organization a registered Society?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Society No.	8003 (XS-0008003)		
• When was your organization legally incorporated?	March 10, 1937		
Is your organization a registered charity in good standing with the CRA?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
• If yes, please provide your Charitable Registration No.	118888957RR0001		
Address	954A Laval Crescent		
	Kamloops	BC	V2C 5P5
	City	Prov	Postal Code
Email	n_rae@ducks.ca	Organization Website	www.ducks.ca
Phone	(250) 374-8307 ext. 228	Fax	(250) 374-6287

PROJECT INFORMATION

Please complete all of the following:

1. Conservation Property/ Complex:

Property Name:	<u>Quintal Floodplain</u>
PID Number(s):	<u>1. 028-933-443 (Lot A District Lot 2450S SDYD)</u> <u>2. 002-037-114 (Lot 674 District Lot 2450S SDYD)</u> <u>3. 018-557-295 (Lot 7 District Lot 2450S SDYD)</u> <u>4. 018-557-287 (Lot 6 District Lot 2450S SDYD)</u> <u>All parcels are owned by DUC except 018-557-287, owned by The Nature Conservancy of Canada (NCC) and leased to DUC.</u>
Region (see map)	<u>Region 8 Okanagan</u>
Geographic Coordinates:	<u>UTM 11-314500-5439700</u>
Property Size (HA)	<u>65.4 Ha (DUC parcels: 42.1 Ha; NCC parcel: 23.3 Ha)</u>
Does your organization have fee simple ownership of this property?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
If yes, how long has your organization owned this property?	<u>Parcels were acquired between 2002 and 2011.</u>
If no*, please name the NGO who has fee simple ownership of the property:	<u>Lot 6 is leased to DUC from The Nature Conservancy of Canada (NCC)</u> <u>Will be included with application. Verbal approval received.</u>
<i>*Note: You must include a letter from the NGO property owner stating they support this application.</i>	
Have you received HCTF funding for the property or activities on the property?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
A small portion of project operation & management expenses reported to HCTF in Fy2007 and Fy2008 under the BC Wetland Partnership Program are attributed to the Quintal Floodplain project (total direct cost \$10,558). HCTF covered approximately 37% of the total reported direct project O&M expenses over those two years.	

2. Habitat Description / Values:

The Quintal Floodplain is part of a patchwork of conservation properties (including the South Okanagan Wildlife Management Area) that contain some of the last remnants of valley-bottom wetlands in the South Okanagan Valley, which acts as an important migration corridor for waterfowl, songbirds, and other wildlife. An estimated 85% of such wetlands have been drained or filled over the years in the area, primarily due to intense pressures from agriculture and urban expansion. The conservation lands are part of an Important Bird Area that offers some of the best cross-valley connectivity of

natural habitats in the Okanagan Valley and provides critical habitat for a variety of wildlife, including several wetland-dependent species at risk.

Prior to its acquisition, the ecology of the Quintal property had been significantly altered through intensive agricultural practices such as drainage and infilling of wetland areas and the elimination of riparian areas. The property was recognized as having excellent potential for restoration and was purchased with the goal of establishing more natural, biologically diverse valley-bottom floodplain habitat at the site. Over the past few years, DUC has undertaken work to restore the natural historic oxbow system throughout the properties and to establish riparian buffer zones along the restored oxbow channels at the site. DUC manages the NCC parcel under the terms of a lease agreement.

3. Guiding Documents:

Completed Project Sheet: Quintal Project (prepared by Ducks Unlimited Canada, February 2014)

Management Plan for the Quintal Project (prepared by Ducks Unlimited Canada, July 2012)

4. Community Engagement/ Access

The Osoyoos Oxbows Important Bird Area is recognized as one of the premier birding sites in Canada. Access is via a public bike path along the west edge of the project, with two gated foot entry points. There is no motorized access, and dogs are permitted only on leash. The public is also able to view the Quintal Floodplain property through an adjacent parcel to the north owned by The Nature Trust and leased to the Province. A sign kiosk at this location provides information about the project's importance to wildlife and highlights partnerships.

5. Proposed Land Management Activities:

Invasive species removal and riparian planting

As a result of past agricultural practices, the Quintal property supports a variety of invasive plant species including but not limited to Canada thistle, purple loosestrife, cocklebur and Russian olive. To address this issue and restore riparian areas to functioning natural habitats, DUC established riparian buffer zones along the restored oxbow channels in 2012/13 by removing invasive species, planting more than 4,000 native riparian shrubs, and seeding with a grass mix. Planted stock survival monitoring, invasive species removal and seeding have been conducted in subsequent years; however, further maintenance and planting site preparation is needed to promote the establishment of a healthy riparian community at the site. In the western

portion of the property, invasive Russian olive trees that are out-competing native vegetation will be removed and replaced with native riparian trees and shrubs that will provide structural diversity and improved habitat functionality to the site.

Key activities will include:

- Monitoring to assess survival of planted stock and to identify areas requiring further treatment of invasive species (Annual);
- Removal of Canada thistle, purple loosestrife, cocklebur and other invasive plants from berms alongside restored wetlands to allow riparian vegetation to become established (Annual);
- Removal of invasive Russian olive and other invasive plants from the western portion of site (Year 1);
- Planting riparian trees and shrubs to replace Russian olive with native species, providing a more biologically diverse and functional canopy layer (Year 1);
- Infill planting of trees and shrubs as necessary to maintain native plant density and discourage re-establishment of invasive species (Year 2 and Year 3).

If the proposed management activities are not conducted, it is highly likely that invasive vegetation will out-compete the native riparian stock already planted at the property, resulting in a return to poorly functioning habitats that support fewer wildlife.

Although no agricultural activities will be conducted as part of the proposed maintenance, please note that haying is used as a management tool over a portion of the property to ensure adequate nesting habitat for a small but healthy population of Bobolink that uses the hayfields for mating and ground-nesting every year. Only selected dryer areas are hayed, and haying is carefully timed to minimize impacts to wildlife (resulting in sub-optimal hay production).

5. Amount Requested from HCTF:

Year 1	<u>\$40,000</u>
Year 2	<u>\$20,000</u>
Year 3	<u>\$15,000</u>
Total	<u>\$75,000</u>

7. Project Partners:

Key partners on this proposal include

- Ducks Unlimited Canada (expertise and funding)
- The U.S. Fish and Wildlife Service (funding)

- The Nature Conservancy of Canada (expertise and possibly funding), and
- The South Okanagan Similkameen Conservation Program (expertise).

8. Property/Complex Map



Funding Cycle:2017-2020Project #:8-414

PROPERTY INFORMATION

Property Name:Quintal Floodplain

Former Property Names, if applicable:(otherwise known as Bobolink Meadows Phase I)

Region:Region 8 Okanagan

PROPONENT INFORMATION

Project Leader:Dan Buffett

Organization Name:Ducks Unlimited Canada

Address:13370 - 78 Ave, Unit 511

City:Surrey

Province:British Columbia

Postal Code:V3W 0H6

Email:d_buffett@ducks.ca

Phone:(604) 592-5003Fax:(604) 592-0930

ADDITIONAL CONTACT:

Name:Nichole RaeOrganization:Ducks Unlimited Canada

Email:n_rae@ducks.caPhone:(250) 374-8307 ext. 228

HCTF Land Stewardship Grant Proposal 2017-2020

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