General Information

Project Title

McCormick Creek Restoration Project

Project Short Description

The McCormick Creek Restoration Project will address multiple documented water quality impairments by re-establishing native vegetation in riparian corridors; removal and eradication of non-native invasive species, stabilizing stream bank. Large woody debris will be installed in the channel for structure and improve summer flows by reconnecting the stream with the floodplain improving storage during winter flooding and summer base flows in the summer.

Project Long Description

McCormick Creek, a sub-basin of East Fork Lewis River watershed in southwestern Washington, is about 31 square miles in area. It has multiple listed water quality impairments. Fecal bacteria is listed as a Category 5 303d listed impairment. Temperature is listed as a Category 2 level impairment indicating there was insufficient data to make a conclusion. Previous assessments conducted Clark County and the Lower Columbia Fish Recovery Board had listed temperature as a Category 5 impairment and limiting factor for salmonids. Also, in a report conducted by Inter-fluve engineering data loggers were installed for two years. Both years it was documented that temperature thresholds for salmonids was ongoingly exceeded for most of the summer months for each year the hobos were installed. The pattern of predominant land uses are agriculture but beginning to convert to hobby farms. The East Fork Lewis Watershed including McCormick Creek is especially noted for its production of wild anadromous fish, but their numbers have continued to decrease. (Lower Columbia Salmon Recovery Subbasin Plan, 2010).

McCormick Creek is classified by the State as a Class A waterbody. As such, it must meet or exceed the standards for all beneficial uses including water supply, stock watering, fish and shellfish, wildlife habitat, and recreation including swimming and boating. The proposed McCormick Creek project area is one of the top 3 listed projects under the Lower Columbia Fish Recovery Board's habitat strategy for the East Fork Lewis River Watershed. East Fork Lewis River Watershed has been designated as the region's most important basins for salmon recovery in the lower Columbia River system. The fish found in McCormick Creek include Coho and Steelhead which are both ESA listed as Threatened. In addition, the creek is used for recreational purposes.
The proposed project is selected due to the water quality impacts and high rating for salmon recovery. For the past 13 years Clark Public Utilities with assistance from Ecology's Centennial Clean Water Fund has focused on several of the East Fork's tributaries including Lockwood Creek, Dean Creek and

General Information

Manley Creek. The Lockwood Creek projects restored 3 miles of stream from the confluence with the East Fork up into the heart of the subbasin. Monitoring completed in 2014 showed canopy closure over the stream at 94% up from 12% up before work began. Water flowing into the East Fork is up to 4 degrees lower than in 2003. Fish rearing and spawning has seen a 110% and 60% increases respectively. Turbidity has decreased significantly. Our proposal is to replicate that success on McCormick Creek which is located one mile downstream from Lockwood.

Project implementation will include extensive tree plantings for over ½ mile of McCormick Creek. Plantings will be preceded by removal of vast stands of reed canary grass which has truncated normal successional processes preventing tree establishment leaving the stream channel exposed increase stream temperatures. Bank stabilization will help provide channel stability decreasing turbidity. Large woody debris placement will help decrease channel incision and stream velocities. Decreased incision will improve floodplain connectivity and along with tree reestablishment will significantly improve flood storage during winter that will augment low summer flows

Total Cost $556,000.00

Total Eligible Cost $333,333.00

Effective Date 7/1/2019

Expiration Date 6/30/2022

Project Category

- ✔ Nonpoint Source Activity
- On-Site Sewage System
- Stormwater Activity0
- Stormwater Facility
- Wastewater Facility

Will Environmental Monitoring Data be collected? No

Ecology Program Water Quality

Overall Goal

The overall goal of this project is to address documented water quality impairments including temperature, turbidity and bacteria within McCormick Creek sub-basin of the East Fork Lewis River

Watershed. This will be accomplished through extensive tree plantings, bank stabilization, reed canary grass and blackberry eradication. Additionally, by placing large woody debris we will improve floodplain function and connectivity which will in turn improve summer flows which are a limiting factor for salmon. This project will also increase awareness and public participation by providing volunteer opportunities and conducting outreach at community events.

Project Characterization

Project Themes

Select a primary and secondary theme that best describes the work to be achieved during this project.

Primary Theme:	Nonpoint Source Pollution
Secondary Theme(s):	Agricultural Best Management Practices
	BMP

Project Website

If your project has a website, please enter the web address below. After entering a website and saving, another blank row will appear. Up to three websites may be provided.

Website Title/Name	Web Address

Recipient Contacts

Project Manager

Jeffrey Wittler

Contact Information

Jeffrey Wittler
Environmental Resources
Manager
PO Box 8900

Vancouver, Washington 98668
(360) 992-8577

jwittler@clarkpud.com

Authorized Signatory

Jeffrey Wittler

Contact Information

Jeffrey Wittler
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PO Box 8900

Vancouver, Washington 98668
(360) 992-8577

jwittler@clarkpud.com

Billing Contact

Grace Babas

Contact Information

Recipient Contacts

Grace Babas
Sr. Water Technician
PO Box 8900

Vancouver, Washington 98668
(360) 992-8534

gbabas@clarkpud.com

Other recipient signatures on printed agreement

Name	Title
Douglas Quinn	Director of Water Services

Total Eligible Cost: $333,333

Grant Request

* **Will your match be cash-only?** Yes ✔ No

Grant Request: $250,000
Match Required: $83,333

IMPORTANT NOTICE. Grants for nonpoint projects require a 25% match. Projects with cash-only match are eligible for up to $500,000 in grant. Projects with a mix of funds for match are eligible for up to $250,000 in grant. Cash match includes any eligible project costs paid for directly by the recipient that are not reimbursed by the Ecology grant or another third party. Donations that become the long-term property of the recipient are considered cash match. Loan money provided through the CWSRF is also considered cash match. In-kind contributions are considered non-cash match. More information on match requirements can be found in the Water Quality Combined Financial Assistance Guidelines which are available for download on the Application Menu.

Loan Request

* **Are you requesting or will you accept loan funds for part or all of the eligible project costs or to meet your match requirement?** Yes ✔ No

What is the loan amount you are requesting or willing to accept?

What loan term do you prefer? 5 years 20 years 30 Years

IMPORTANT NOTICE. Ecology may provide special loan funding for nonpoint projects in the following case: (1) projects that meet the criteria for "green project reserve" may receive up to 25% forgivable loan. Ecology will determine eligibility for special funding when developing funding packages.

Other Funds

* **Do you have any secured funds committed to this project?** ✔ Yes No

If Yes, complete the Secured Funds Table, and include any secured matching funds if known.

Secured Funds Table

Source*	Type*	Amount Committed*
State/Federal agency:		
State/Federal agency:		
State/Federal agency:		
Interlocal contributions:		
Interlocal contributions:		
Local agency: Clark Public Utilties	Cash	$40,333.33
In-kind contributions:Plant materials & volunteers	Grants	$43,000.00
Other		

Scope of Work - Task 1 Grant and Loan Administration: 1

Task Number 1

Task Title Grant and Loan Administration **Task Cost** $6,666.00

Task Description

A. The RECIPIENT shall carry out all work necessary to meet ECOLOGY grant or loan administration requirements. Responsibilities include, but are not limited to: Maintenance of project records; submittal of requests for reimbursement and corresponding backup documentation; progress reports; and a recipient closeout report (including photos).
B. The RECIPIENT shall maintain documentation demonstrating compliance with applicable procurement, contracting, and interlocal agreement requirements; application for, receipt of, and compliance with all required permits, licenses, easements, or property rights necessary for the project; and submittal of required performance items.
C. The RECIPIENT shall manage the project. Efforts include, but are not limited to: conducting, coordinating, and scheduling project activities and assuring quality control. Every effort will be made to maintain effective communication with the RECIPIENT's designees; ECOLOGY; all affected local, state, or federal jurisdictions; and any interested individuals or groups. The RECIPIENT shall carry out this project in accordance with any completion dates outlined in this agreement.

Task Goal Statement

Properly managed and fully documented project that meets ECOLOGY’s grant or loan administrative requirements.

Task Expected Outcomes

* Timely and complete submittal of requests for reimbursement, quarterly progress reports, Recipient Closeout Report, and two-page outcome summary report.
* Properly maintained project documentation.

Recipient Task Coordinator

Jeff Wittler & Grace Babas

Deliverables

Deliverable #	Description	Due Date	Received?	EIM Study ID	Latitude	Longitude	Location Address

1.1	Quarterly Progress Reports	9/30/2019
1.2	Recipient Closeout Report	5/15/2022
1.3	Project Outcome Summary Report	5/15/2022

Scope of Work - Additional Tasks: 2 - Planning, Design and Site Preparation

Task Number	2
Task Title	Planning, Design & Site Preparation
Task Cost	$26,500.00*

Task Description

A. The RECIPIENT will complete a detailed site assessment of the project area once non- native plants are controlled. The RECIPIENT will develop planting plans, a plant order and a project report from data gathered from lhe site assessment. Each planting plan will identify the landowner and location. Planting plans will also include all metrics for the project.

B. The RECIPIENT shall obtain a conservation easement or a landowner agreement signed by the landowner prior to the establishment of a riparian buffer on private property. The easement or a landowner agreement must be effective for a minimum of ten years unless otherwise authorized by the DEPARTMENT.

C. RECIPIENT will complete the Best Management Practice Approval Form-Riparian Restoration BMPs; Cultural Resources Review and the Section 319 Initital Data Reporting Form.

D. The RECIPIENT will prepare the site for planting by removing non-native invasive species from the project area. Identified species in the project area include Reed canary grass, Himalayan and Evergreen blackberry, Poison hemlock, Japanese knotweed, Garlic mustard and selected noxious broadleaf weeds. Invasive species adjacent to the project area that have the ability to easily infest the project site will be treated as well. Removal will include a combination of both chemical application and mechanical techniques where chemical application is not appropriate. The RECIPIENT will work with the Department of Natural Resources correctional crews, seasonal student groups, AmeriCorps and contract crews to perform hand removal. A licensed applicator will complete chemical application where appropriate.

D. The RECIPIENT will complete 75% of site preparation by March 30, 2020..

E. The RECIPIENT will take photo points of each project site prior to and following implementation and use them in the Recipient Closeout Report.

F. The RECIPIENT commits to monitor and eradicate invasive species for an additional two years after the completion of the grant project period.

Task Goal Statement

Develop long term plan and design with goal of removal of 96% of all non-native invasive species in the project area to increase resiliency and survival of installed native plants.

Task Expected Outcomes

1. Develop detailed project site assessment and riparian restoration plan.

2. Develop planting plan.
2. Remove approximately 12 acres of of non-native invasive species within the project area.
3. Continue to monitor and eradicate invasive species for an additional two years after the completion of the grant project period.

Recipient Task Coordinator: Casey Gozart & Jeff Wittler

Deliverables

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
2.1	Complete detailed site assessment and riparian restoration plan.	10/1/2019				45.8600039	-122.688718	near 33401 NW 24th Ave
2.2	Remove approximately 12 acres of non-native invasive species from the riparian corridor within the project area. 75% will be completed by 11/1/2018.	10/1/2020				45.8600039	-122.688718	near 33401 NW 24th Ave
2.3	3 Submit signed landowner agreements or conservation easements to	8/1/2019				45.8600039	-122.688718	near 33401 NW 24th Ave

2.4	ECOLOGY's Project Manager prior to implementation. Complete and submit a BMP Approval Form with associated site plans for each project site to ECOLOGY's Project Manager for review and approval prior to implementation.	10/1/2019	45.8600039	-122.688718	near 33401 NW 24th Ave

Task Number	3		
Task Title	Bank stabilization & Floodplain connectivity	Task Cost	$50,100.00*

Task Description

A. RECIPIENT will stabilize approximately 1,400 lineal feet of eroding bank. Stabilization may include excavation and removal of highly erodable sediments out of the floodplain. Large woody debris (LWD) will be installed in concert to provide stream structure, improved floodplain connectivity and salmon habitat. Approximately 60 pieces of LWD will be installed to provide channel structure and stability and provide salmonid habitat.
B. The RECIPIENT must complete an ECOLOGY BMP Approval Form for each site prior to implementation. This form must be submitted to ECOLOGY's Project Manager for review and approval prior to implementation.
C. The RECIPIENT will meet all cultural resource review process requirements as outlined in Appendix I of the Funding Guidelines State Fiscal Year 2018. The RECIPIENT will provide appropriate documentation that that these requirements were met to the ECOLOGY Project Manager.
D. Due to sequencing of tasks within the 3 year grant period RECIPIENT has completed engineer plans at the 90% complete stage.
E. RECIPIENT engineered plans have been submitted for permitting. With this lead time construction should easily take place during the in-water work window August 2019.
F. The RECIPIENT will take photo points of each project site prior to and following implementation and use them in the Recipient Closeout Report.

Task Goal Statement

Stabilized streambanks to reduce turbidity, decrease channel incision and improve channel structure to more natural state as well as improve floodplain structure and stability.

Task Expected Outcomes

1. Improved channel and bank stability over 1,800 lineal feet of stream.
2. Decreased turbidity resulting in higher survival for aquatic species.
3. Install 60 pieces of large woody material to decrease erosion and improve channel structure and habitat for all aquatic organisms.
4. Decreased channel incision and stream velocities with corresponding reduction in will improve channel stability decreasing turbidity.

5. Decreased channel incision will improve floodplain connectivity improving storage of winter floods.
6. Improved flood storage and infiltration will help augment base flows increasing summer flows.
7. Improved structure and complexity will improve survival and resiliency of newly planted trees and shrubs.

Recipient Task Coordinator Jeff Wittler

Deliverables

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
3.1	Stabilize eroding streambanks along approximately 1,400 lineal feet of stream along McCormick Creek.	10/15/2019				45.860039	-122.688718	near 33401 NW 24th Ave
3.2	Install approximately 60 pieces of large woody debris to provide channel structure and stability.	10/15/2019				45.860039	-122.688718	near 33401 NW 24th Ave
3.3	Submit signed landowner agreements or conservation easements to ECOLOGY's Project	9/1/2019				45.860039	-122.688718	near 33401 NW 24th Ave

	Manager prior to implementation.					
3.4	Complete and submit all permitting and cultural resources review requirements for each site to ECOLOGY's Project Manager prior to implementation.	9/1/2019		45.860039	-122.688718	near 33401 NW 24th Ave
3.5	Complete and submit a BMP Approval Form with associated site plans for each project site to ECOLOGY's Project Manager for review and approval prior to implementation.	8/1/2019		45.860039	-122.688718	near 33401 NW 24th Ave
3.6	Complete all regulatory permits by 6/1/2019	8/1/2019		45.860039	-122.688718	near 33401 NW 24th Ave

Scope of Work - Additional Tasks: 4 - Riparian Planting and Maintenance

Task Number	4
Task Title	Riparian Planting & Maintenance
Task Cost	$247,567.00*

Task Description

A. The RECIPIENT will complete a detailed site assessment of the project area once non-native plants are controlled. The RECIPENT will develop planting plan form data gathered from the site assessment. Planting plan will identify landowner and location. Planting Plant will also include all planned metrics and be submitted to ECOLOGY's Project Manager for approval prior to be uploaded to EAGL.

B. The RECIPENT will plant approximately 28,000 trees and shrubs along 2,600 feet of stream along McCormick Creek. Planting will include appropriate animal browse protection, including plant tubing and beaver barrier fencing where feasible. Eighty-Five percent of the planting will be completed by spring of 2020.

C. The RECIPIENT will take photos of the project site prior to and following implementation and use them in the RECIPIENT Closeout Repor.

D. The RECIPIENT will obtain a conservation easement or a landowner agreement signed by the landowner prior to planning and establishment of a riparian buffer on private property. The landowner agreement or conservation easement must be consistent with the requirements found in the Funding Guidelines State Fiscal Year 2020. The RECIPIENT will submit a copy to ECOLOGY's Project Manager prior to implementation.

E. The RECIPIENT will meet all cultural resource review process requirements as outlined in the Funding Guidelines State Fiscal Year 2020. The RECIPIENT will provide appropriate documentation that these requirements were met to the ECOLOGY Project Manager.

F. The RECIPIENT must complete an ECOLOGY BMP Approval Form for each site prior to implementation. This form must be submitted to ECOLOGY's Project Manager for review and approval prior to implementation.

G. The RECIPIENT will install riparian buffers that comply with the requirements found in Appendix G of the Funding Guidelines State Fiscal Year 2020. The RECIPIENT will develop a Riparian Planting Plan for each site. This plan must be submitted to ECOLOGY's Project Manager for review and approval prior to implementation.

H. The RECIPIENT must develop a written and signed three-year maintenance plan prior to establishing all riparian buffers. This plan will detail responsibilities for both the landowner and the RECIPIENT and must include details concerning, but not limited to, watering plants, replacing dead plants, controlling noxious weeds, animal browse protection, and ensure a minimum of 85 percent plant survival.

I. The RECIPIENT must complete a Section 319 Load Reduction Report form in EAGL for BMPs installed during the previous calendar year. This form is due January 15th each year and at project closeout for BMPs installed since January 1 of the closeout year.

J. The RECIPIENT will perform extensive maintenance including mowing and removing competing weeds and invasive plant material until plants are established.

K. For agricultural areas, minimum buffer size for streams shall be an average width of 35 feet (on both sides of the stream). For those streams which provide habitat for endangered or threatened aquatic species, the minimum buffer size shall be an average of 50 feet. For all such streams, it is recommended that the RECIPIENT use Washington Department of Fish and Wildlife buffer widths found in the Final Joint Washington Department of Fish and Wildlife/Tribal Wild Salmonid Policy.

Task Goal Statement

Create and establish a self-sustaining, resilient native plant community that will effectively shade 100% of McCormick Creek in the project area resistant to both natural and anthroprogenic disturbance. Improve floodplain function by replacing a monoculture of reed canary grass with a wide variety of native, woody vegetation. One hundred percent of the floodplain in the project area will be planted with woody vegetation that will significantly improve floodplain permeability by providing extensive rooting systems that will allow up to 8o% better infiltration. This will be accomplished through an accelerated and aggressive planting approach to rapidly create a closed canopy to prevent invasive non-native from getting reestablished. Increased native riparian vegetation along McCormick Creek and improved water quality will reduce erosion and excessive sedimentation. Native canopy vegetation provides necessary shade that regulates and cools water temperature. The resulting well vegetated floodplain will help reduce stream velocities and improve infiltration reducing flood waters and increase summer flows. Installed trees, will in the long term provide large wood, that when recruited by streams. add channel and floodplain roughness important for regulating water temperature.

Task Expected Outcomes

- Completed detailed site assessment of the planting area.
- Completed planting plan.
- Completed Cultural Resources Form and Inadverant Discovery Plan.
- Install approximately 28,000 native trees & shrubs.
- Restore approximately 2,600 lineal feet of stream.
- Restore approximately 20 acres of riparian habitat.
- 95% of non-native, invasive species will be eradicated.
- Reduce erosion and excessive sedimentation/erosion through large scale riparian revegetation.
- Improve floodplain infiltration by replacing a monoculture of invasive Reed canary grass with woody vegetation with robust rooting systems. Improved infiltration will improve storage capacity and in turn summer base flow.
- Improve floodplain function by increasing floodplain roughness through large scale riparian revegetation. Roughness increases floodplain infiltration and decreases erosion.
- Improved flood storage and infiltration will help augment base flows increasing summer flows.
- Will perform maintenance including mowing and removing competing weeds and invasive plant material until plants are established.
- Will continue to perform maintenance on project for 2 years past end of grant period.
- Plant survival of 85%.

Recipient Task Coordinator

Dan Tanksley & Jeffrey Wittler

Deliverables

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
4.1	Submit a detailed site assessment of the project area to	10/1/2019				45.860039	-122.688718	near 33401 NW 24th Ave

	ECOLOGY's Project Manager.				
4.2	Install approximately 28,000 native trees and shrubs along 2,600 feet of McCormick Creek.	12/30/2020	45.860039	-122.688718	near 33401 NW 24th Ave
4.3	Create a restored riparian buffer of approximately 250 feet on each side of the stream.	6/30/2022	45.860039	-122.688718	near 33401 NW 24th Ave
4.4	Conduct plant maintenance to ensure at least 85 percent plant survival.	6/30/2022	45.860039	-122.688718	near 33401 NW 24th Ave
4.9	Complete a Section 319 Load Reduction Report form in EAGL for BMPs	1/15/2020	45.860039	-122.688718	near 33401 NW 24th Ave
	Submit signed landowner agreements or conservation easements to ECOLOGY's Project Manager prior to implementation.	9/1/2019	45.860039	-122.688718	near 33401 NW 24th Ave
	Submit signed landowner	9/1/2019	45.860039	-122.688718	near 33401 NW 24th

agreements or conservation easements to ECOLOGY's Project Manager prior to implementation.					Ave
Complete and submit a BMP Approval Form with associated site plans for each project site to ECOLOGY's Project Manager for review and approval prior to implementation.	9/1/2019		45.860039	-122.688718	near 33401 NW 24th Ave
Upload copies of signed maintenance plans to EAGL.	9/1/2019		45.860039	-122.688718	near 33401 NW 24th Ave

Scope of Work - Additional Tasks: 5 - Outreach and Education

Task Number	5
Task Title	Outreach & Education
Task Cost	$2,500.00*

Task Description

A. The RECIPIENT will provide information regarding the project at community events including the Home & Garden Idea Fair, Earth Day Celebration and Eco-Fair, Make A Difference Day and StreamTeam volunteer events. CPU will conduct outreach and present project information at over 25 community events annually.
B. The RECIPIENT will attend farmer's markets, neighborhood association meetings and other local community events to increase awareness about the impacts of poor water quality and ways to improve it.
C. The RECIPIENT will engage local volunteer groups, student groups including high schools, colleges and universities along with local businesses and non-profit conservation organizations to increase public awareness, participation and partnership opportunities.
D. The RECIPIENT shall provide the DEPARTMENT with two copies of any tangible educational products developed under this grant, such as brochures, manuals, pamphlets, videos, CDs, curriculum, posters, media announcements or gadgets, such as a refrigerator magnet with a message. The RECIPIENT shall also supply the DEPARTMENT with the names and contact information of local project leads, and a computer file copy of an education product on CD-ROM. If this is impractical, as in the case of a sign, display, website, workshop, or educational program, the RECIPIENT shall provide a complete description including photographs or printouts. This includes technical assistance tools if they are disseminated to a group.

Task Goal Statement

Increased awareness in the community about the project and the impacts of poor water quality on aquatic species by participating in at least 25 community events.

Task Expected Outcomes

- Brochures, postcards and/or signs developed and printed to enhance outreach efforts
- Attend community events to communicate with the landowners in the watersheds
- Build relationships with landowners and community groups
- Increase public support and participation in restoration efforts

Recipient Task Coordinator

Ashley King

Deliverables

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
5.1	RECIPIENT will inform public about the project at a minimum of 25 community events.	6/30/2022						

Scope of Work Summary

Task Title	Task Cost
Project Administration/Management	$6,666.00
Planning, Design & Site Preparation	$26,500.00
Bank stabilization & Floodplain connectivity	$50,100.00
Riparian Planting & Maintenance	$247,567.00
Outreach & Education	$2,500.00
Total	$333,333.00

Total Eligible Costs
(from the General Information Form)
$333,333.00

Subcategory	
***Are you applying to refinance debt for a wastewater facility project that has been completed (i.e., standard refinance)?**	Yes ✔ No
***Do you want your project to be considered for GPR subsidy under the CWSRF program? (NOTE: Projects are only eligible if they meet EPA's GPR criteria, and applicants accept a CWSRF loan.)**	Yes ✔ No
***Is this a wastewater facility project that includes Construction tasks for which you are seeking funding and is the population of the community that will pay for the project less than 25,000 and do you want to be considered for Financial Hardship subsidy?**	Yes ✔ No

Task Costs and Budget

Describe the process used to estimate the cost of the project. If your process included reviewing similar projects, describe how this review affected your estimate.

This proposed project utilizes several sources of information to determine cost effective but adequate funding to properly execute and implement the performance measures in this grant application. Budget projections for all tasks are based on 20 years data on similar types of projects. The base line for estimates have been pulled from 14 successfully implemented centennial grant projects and six salmon recovery funding board projects. Costs have also been compared to other grant projects with similar implementation measures. The Site preparation task budget is based on per acre costs of previously implemented projects which include over 500 acres non-native, invasive plant removal and eradication. The Bank stabilization task budget is based on a typical per foot cost of previously stabilized streambanks using similar methodologies. Riparian planting task cost is based off of a per plant cost based on replanting of 600 implemented acres. Maintenance work is based on an acre cost from previously maintained grant projects. See attached cost estimates for each task budget.

Describe the process used to determine that this project is the lowest cost solution to the problem.

If the proposed project is not the lowest cost, describe the other benefits or considerations such as feasibility, community acceptance, or coordination with other projects that influenced the decision making process.

Efforts to control costs have been made at all levels of project planning. This project attempts to use a variety of labor resources designed to keep those costs to a minimum, including utilization of AmeriCorps volunteers, seasonal interns, volunteers and inmate crews wherever possible.
Upload a detailed budget for the project and any supporting documentation, including engineers estimates, cost analysis, etc.

Upload a detailed budget for the project and any supporting documentation, including engineers estimates, cost analysis, etc.

Attachment Description	Attachment
Budgets - McCormick Creek	_Upload/98369_906585-Budget-McCormickCreek.docx

Project Information

Project Length in months: 35

(The difference between the effective date and the expiration date on the General Information Page)

Project Start Date 7/15/2019

(The date the actual work will start, or if interim refinance, the date the work started)

Please identify all 12 digit HUCs in which the project work will be done.

HUC	Percentage
170800020507	100%

Water Body and Water Quality Needs Addressed

Check all type(s) of water bodies that this project targets: *

- ✔ Freshwater rivers
- Freshwater lakes
- ✔ Freshwater wetlands
- ✔ Ground water
- Direct marine water
- Saltwater estuary
- Other **(specify):**

Check all the resource protection and regulatory requirements that this project addresses: *

- ✔ Endangered or threatened salmonids
- Other Endangered Species Act protected species **(specify):**
- Protection of shellfish habitat
- National Pollutant Discharge Elimination System (NPDES) permit requirements
- State Waste Discharge Permit
- Other **(specify):**

Check all the water quality parameters that this project targets: *

- ✔ Dissolved oxygen
- ✔ Sediment
- ✔ Nitrogen
- ✔ Fecal coliform
- ✔ Phosphorus
- ✔ Temperature
- ✔ pH
- Other **(specify):**

Identify the water bodies, any impairments (Category 4A, 4B, and 5 waters), and listing parameters that your project will address.

Water Body Name
McCormick Creek 7822
Lewis River, EF 48670
McCormick Creek 7821

Are you addressing a TMDL? Yes ✔ No

TMDL Name

Water Body and Water Quality Needs Addressed

Nonpoint Source Activity Project Information

Check all the type(s) of project that apply:

- ✔ Agricultural best management practices (BMP)
- Other BMPs **(specify):**
- Site specific planning for BMP implementation
- ✔ Groundwater/aquifer/wellhead protection and/or planning
- Lake restoration planning and/or implementation
- ✔ Public outreach and education
- ✔ Riparian/wetland restoration
- ✔ TMDL support
- Water Quality monitoring
- Other **(specify):**

Is the project planning, implementation or a combination of both? *

Planning ✔ Implementation Planning/Implementation

Implementation Action	**Reference the plan(s) that describe this action, including page numbers and where a copy can be obtained**
Restore lowland floodplain function, riparian conditions and stream habitat diversity	Lewis Watershed Management Plan, LCFRB 2006, pg 7-2 https://www.lcfrb.gen.wa.us/watershedplanning
Conduct floodplain restoration where feasible along the mainstem & in major tributaries	Lewis Watershed Management Plan, LCFRB 2006, pg 7-11 https://www.lcfrb.gen.wa.us/watershedplanningplans/c1be7
Increase landowner participation in conservation programs that protect & restore habitat	Lewis Watershed Management Plan, LCFRB 2006, pg 7-13 https://www.lcfrb.gen.wa.us/watershedplanning
Restore native plant communities form the effects of invasive species	Lewis Watershed Management Plan, LCFRB 2006, pg 7-13 https://www.lcfrb.gen.wa.us/watershedplanning
Address water quality issues through implementation of water quality cleanup plans	Lewis Watershed Management Plan, LCFRB 2006, pg 7-14 https://www.lcfrb.gen.wa.us/watershedplanning
Assess and take corrective action on water quality impairments	Lewis Watershed Management Plan, LCFRB 2006, pg ES-36 tps://www.lcfrb.gen.wa.us/watershedplanning
Replant degraded riparian areas with native confiers	Salmon and Steelhead Habitat Limiting Factors, WRIA 27, WSCC LCFRB 2000 pg 88 Lower Columbia Fish Recovery Board offices
Reduce water temperatures	Salmon and Steelhead Habitat Limiting Factors, WRIA 27, WSCC LCFRB 2000 pg 88 Lower Columbia Fish Recovery Board offices
LFA listed Floodplain connectivity,bank stability,off-channel habitat, riparian conditions correctiv	Salmon and Steelhead Habitat Limiting Factors, WRIA 27, WSCC LCFRB 2000 pg 61-72 Lower Columbia Fish Recovery Board offices
Restore floodplain function and channel	Lower Columbia Salmon Recovery Plan – Lewis Subbasin – East Fork

Nonpoint Source Activity Project Information

migration processes. p. G-320	Lewis River, LCFRB 2006 https://www.lcfrb.gen.wa.us/watershedplanning
Restore riparian conditions.tree planting p. G-323	Lower Columbia Salmon Recovery Plan – Lewis Subbasin – East Fork Lewis River, LCFRB 2006 h https://www.lcfrb.gen.wa.us/watershedplanning
Restore riparian conditions.tree planting p. G-323	Lower Columbia Salmon Recovery Plan – Lewis Subbasin – East Fork Lewis River, LCFRB 2006 h https://www.lcfrb.gen.wa.us/watershedplanning
Eradicate invasive plant species. G-323	Lower Columbia Salmon Recovery Plan – Lewis Subbasin – East Fork Lewis River, LCFRB 2006 https://www.lcfrb.gen.wa.us/watershedplanning
Restore degraded water quality with emphasis on temperature impairments. P G-324	Lower Columbia Salmon Recovery Plan – Lewis Subbasin – East Fork Lewis River, LCFRB 2006 https://www.lcfrb.gen.wa.us/watershedplanning
East Fork Lewis River – Project 41, #3 priority of 45 reaches. p. M-2	East Fork Lewis River Sub-basin Habitat Strategy, LCFRB 2006 https://www.lcfrb.gen.wa.us/watershedplanning
McCormick Creek Fish Habitat Enhancement Project Final Report	Attached

Project Team

Fill out the following table to describe your Project Team, including staff, contractors, and partner agencies:

Team Member Name/and or Title	Key Responsibilities	Qualifications/ Experience	Estimated Total Hours Devoted to the Project	Who will take over the person's responsibilities if they are unable to work on the project?
Dan Tanksley	Oversee the project and assist with managing on-the-ground activities including crews, AmeriCorps and student field techs, grant progress reporting	10 years experience with riparian restoration, invasive species management, grant administration. Has supervised all aspects of riparian restoration including site assessment, project design, site preparation, maintenance and monitoring. working with contract and inmate crews management and supervision. BA in Environmental Studies.	600.00	Casey Gozart, Brad Mead or Jeff Wittler
Casey Gozart	Oversee the project and assist with managing on-the-ground activities, grant reporting; assist with coordinating contract and inmate crews as needed to improve access to sites. Site assessment, planting plan, maintenance plan	17 years experience in stream and wetland restoration with Clark County. Has supervised all aspects of riparian restoration including site assessment, project design, site preparation, maintenance and monitoring. working with contract and inmate crews	400.00	Dan Tanksley, Brad Mead or Jeff Wittler

Project Team

		management and supervision. B.S – Natural Resource Sciences.		
Jeffrey Wittler	Assist with project management, grant administration; Project design, permitting.	25 years of experience in riparian restoration, project planning, outreach, grant administration in SW WA. Successfully implemented over 25 grants totaling $5 million. B.S. in Environmental Sciences.	150.00	Casey Gozart, Dan Tanksley, Brad Mead
Grace Babas	Manage financial data, recording and payment requests.	12 years managing grant financial records and payment requests. Certified Public Accountant.	90.00	Utility accounting staff including Shelly Peeples, Julie McNett, Jeffrey Wittler`
Brad Mead	Oversee and direct all invasive species work on project.	6 years experience managing and directing invasive species programs with NRCS, BLM and CPU. B.S. Botany and Plant Pathology.	120.00	Dan Tanksley, Casey Gozart

To add a team member, fill out a row and SAVE. A blank row will appear. To remove a team member, clear the contents of the entire row and SAVE. One blank row is always visible.

Describe similar projects that your project team or organization has completed. Note any deviations from the original proposal in scope, budget, or schedule and briefly describe project success and lessons learned. If the project was funded by Ecology, include the Ecology grant or loan number.

Clark Public Utilities has received 14 Centennial Clean Water Fund grants to date and successfully met performance BMP metrics for all 14 of those grants to improve water quality. The same dedication and efficiency will be applied to any future Centennial Grants to ensure success.

Clark Public Utilities has successfully completed 150 watershed enhancement projects over the last 25 years, covering 500 acres aimed at

increasing water quality and improving salmon habitat. We keep to our project timelines and have a strong history of completing all of our deliverables. Over the past years, water quality in the Salmon Creek watershed has improved in some areas and is continuing to show effects of riparian restoration and bank stabilization work that Clark has completed.

Describe the steps you have taken to be ready to proceed immediately with the project. Provide detailed information and documentation on project elements such as status of designs, permits, interlocal agreements, landowner agreements, easements, other secured funding, staff, or agency approvals.

If applicable, describe the environmental review completed such as:
** National Environmental Policy Act (NEPA)*
** Environmental Review Process (SERP)*
** State Environmental Policy Act (SEPA)*
** Cultural Resource Assessment*

Landowners secured
Permits submitted
Crews secured
Plant materials secured

(1) The proposed project selected for implementation meets a series of selection criteria. The ongoing loss of native riparian vegetation presents an urgent need. Water quality impairments listed in reports informing the proposed East Fork TMDL process cannot be eliminated without an intact buffer of native riparian vegetation.
The East Fork Lewis River and its tributaries have been listed on the 303(d) list of impaired water bodies for high in-stream temperatures and fecal coliform bacteria problems for many years.
The feasibility of the project is high due to multiple factors. Engineering plans have already been completed. Permits will be submitted the first of November. Outreach materials, access forms, community contacts and equipment have already been secured. CPU has several riparian restoration projects in the East Fork basin and this familiarity with the landscape, as well as a positive reputation in the community will help ensure project success.
(2) The Lower Columbia fish Recovery Board 6 year habitat schedule lists this as the #3 project on a list of 70.
(3) Alternatives were evaluated but riparian re-vegetation along with instream habitat measures are a well recognized method of improving water quality and salmon habitat.
(4) CPU has developed long term partnerships with a number of organizations that will help implement this grant. Project stakeholders, their involvement and level of support are listed below:
-Cowlitz Tribe: staff resources, project guidance and direction
- Lower Columbia fish enhancement Group – technical
-Washington Department of Natural Resources: provide inmate labor

-Washington Department of Corrections: provide inmate labor
-AmeriCorps: provide volunteer labor
(5) This proposal will provide assistance that will have a direct impact on water quality and fish recovery by lowering water temperatures, decreasing erosion and sediment, and decreasing turbidity levels. In addition, we will provide maintenance for continuing management of these practices, which will afford for long-term water quality impacts.
6. Bank stabilization designs have been completed.
7. Permits for Bank Stabilization have been submitted.
8. Landowner approval has been obtained.

Upload a Project Schedule that includes all tasks necessary to complete the project, including tasks that are not part of the funding request.

Attachment Description	Attachment
Project Schedule - McCormick Creek	_Upload/98375_906603-ProjectSchedule2020.xlsx

Describe the process used by your organization to select the project for implementation. In your description please include:

(1) All criteria used to evaluate the value, feasibility and site suitability of the proposed project.
(2) Alternatives to the proposed project that were considered.
(3) A list of project stakeholders, their involvement in the decision-making process, and their level of support for the project.
(4) The plan to ensure long term project success and maintenance of the water quality benefits.

CPU has developed long term partnerships with a number of organizations that will participate in implementing this grant including:
- Lower Columbia Fish Recovery Board: provided direction on priorities for restoration in Salmon Creek through the Lower Columbia Fish Recovery Plan.
- Washington Department of Fish & Wildlife: provided information salmon usage and suggested project locations based on redd surveys
- Washington Department of Natural Resources: provide inmate labor
-Washington Department of Corrections: provide inmate labor
- Lower Columbia Fish Enhancement Group: provide in-stream technical expertise as well as volunteer labor
- AmeriCorps: provide volunteer labor
- Clark County Parks: provide volunteer labor
- Washington Service Corps: provide volunteer labor
- Salmon Creek Watershed Council: provide volunteer labor

The Lower Columbia Fish Recovery Board's Salmon Recovery Plan for the East Fork Lewis River specifically lists the proposed project in its six year work plan. All project locations are listed in the top tiered recommended projects.
The projects listed in this application were chosen based on their documented water quality impairments for temperature , turbidity and fecal coliform. East Fork Lewis 303 (d) listing and preliminary TMDL results.
CPU has an excellent track record of recruiting landowners and completing / managing projects in the East Fork Lewis Watershed.
This proposal will provide assistance that will have a direct impact on water quality and fish recovery by lowering water temperatures , decreasing erosion and sediment, and decreasing turbidity levels. In addition, we will provide maintenance for continuing management of these practices, which will afford for long-term water quality impacts.
CPU has selected focus areas based on Lower Columbia Fish Recovery Board's prioritized six year habitat schedule and the list of impaired water bodies. Decision making processes included reports and conversations with staff at the Lower Columbia Fish Recovery Board and Washington Dept of Fish and Wildlife. Grant work proposed in this project will build on work already completed by CPU in this reach.

This proposal will provide assistance that will have a direct impact on water quality and fish recovery by lowering water temperatures , decreasing erosion and sediment, and decreasing turbidity levels. In addition, we will provide maintenance for continuing management of these practices, which will afford for long-term water quality impacts.

Developed partnerships with active land management organizations in Clark County will provide the infrastructure necessary to sustain the community stewardship program. Partnerships will:

Improve data collection and information sharing to expand our knowledge of knotweed infestations.

Provide access to equipment necessary for survey and treatment activities.

Identify best management practices through coordinated treatment strategies, sharing of technical expertise and resource allocation.

CPU has an excellent track record of recruiting landowners and completing / managing projects in the East Fork Lewis Watershed. We have met close to 100% of the grant metrics in eleven previous centennial grant applications meeting all project timelines and all but three deliverables.

Attachment Description

Attachment

Name the water body(ies) the project will improve or protect and describe the current regulatory requirements and available planning documents for the water body. Include a description of any NPDES permitting requirements, TMDLs, or local watershed plans.

The proposed project will focus on riparian floodplain buffer along ½ mile of lower McCormick Creek in the East Fork Lewis River Watershed. Listed water quality impairments will be targeted for both bacteria and temperature will be addressed. The lower portion of the East Fork Lewis River is identified by the State as Class A (Excellent Waters) and the upper portion as Class AA (Extraordinary Waters) as defined by the Clean Water Act. As such, it must meet or exceed standards for all or substantially all beneficial uses including water supply, stock watering, fish, and recreational uses such as swimming and boating. The State of Washington Department of Ecology TMDL study completed in 2005 found significant violations of water quality standards in the East Fork Lewis River specifically for fecal coliform bacteria and temperature. According to the 303(d) List the violations of the water quality standards are continuing. A draft TMDL based on these findings is in development.
The East Fork Lewis River resides in the Lower Columbia River Basin, which is designated as a national priority Large Aquatic Ecosystem by the EPA. East Fork Lewis River and its tributaries are spawning and rearing grounds for four anadromous species including Summer and Winter Steelhead (Threatened), Chinook (Threatened), Chum (Threatened) and Coho (Threatened) Salmon, all of which are included under the Endangered Species Act. Temperatures above a threshold level can negatively impact fish survival. Higher temperatures can lead to a decreased supply of oxygen, disrupted metabolism, increased susceptibility to toxins, increased vulnerability to disease, reduced ability to avoid predators, and reduced food supply (Reference Dept of Ecology Focus, Number 00-10-046). Water temperatures are increased when the streamside vegetation is removed or disturbed and cannot provide shade. The Lower Columbia River Salmon and Steelhead ESA Recovery Plan (2013) calls for the implementation of “regulatory, control, and education measures to control introduced, invasive, or exotic species and prevent new invasions” in basins such as the East Fork Lewis to aid in the recovery of listed salmonids.

Also, in a report conducted by Inter-fluve engineering data loggers were installed for two years. Both years it was documented that temperature thresholds for salmonids was ongoingly exceeded for most of the summer months for each year the hobos were installed. Seet attached file. McCormick Creek Fish Habitat Project - Final Report page 5.

Describe how the project area is connected to this water body and how implementation of the project will meet regulatory requirements or support the water quality planning efforts listed above. Reference the specific requirements or recommendations that the project will address and discuss how the project will reduce or prevent the pollutants listed from entering the waterbody. All projects in the Puget Sound Region must include the elements of the Puget Sound Action Agenda that will be supported by the proposed project.

The water quality and watershed planning documents listed above call for riparian restoration through the removal of invasive non-native vegetation proven to displace native riparian vegetation and negatively affect normal riparian function. Implementation of this project will decrease

the impact of invasive knotweed on the river by reducing the infested area and preventing further infestation by educating the public and locating sources in the upper watershed. This project also targets opportunities for native woody re-vegetation projects and will plant 20 acres of riparian trees and shrubs in the basin.

Riparian area refers to the land adjacent to the streams that interacts with the aquatic environment. Trees along the streams provide a canopy, which shades the stream and helps to lower the in-stream temperature, an important factor in water quality.

Describe the measure and method that will be used to determine the water quality benefit and overall success of the project.

The program will utilize site preparation and planting protocols developed and refined on over 150 past projects (see Proposed Budget/Cost Considerations: Approach) Sites will be maintained for at least 2 years after the grant period to ensure success. CPU also monitors projects for any problems after the grant period to ensure the establishment of self-sustaining native plant communities. Monitoring occurs at 1, 2 and 5 years as well as at 7 and 10 years.

The re-established riparian corridor vegetation will provide a buffer between adjacent agricultural land use and McCormick Creek and the East Fork Lewis River. Re-established stream buffers, complete with bank stabilization measures and healthy native vegetation, will decrease sediment loading, filter runoff prior to surface water entry, and provide shading to lower water temperature and assist in controlling growth of undesirable vegetation such as reed canary grass. While a formal TMDL has not been completed on the East Fork. TMDL's conducted in other watersheds like near by Salmon Creek and Gibbons Creek all recognize that planting trees reducing stream temperatures and filters contaminants such as bacteria

To track water quality benefits of the riparian buffer establishment, RECIPIENT will calculate nutrient and sediment load reductions using EPA's Spreadsheet Tool for Estimating Pollutant Load (STEPL).

The RECIPIENT will document canopy closure within project riparian buffers using a spherical densiometer. The installation of planted buffers has the potential to immediately improve water quality by creating a physical buffer between the stream and adjacent land uses. Significant shade and canopy cover from early succession native plants can occur within two to three growing seasons after planting.

The long-term, large-scale environmental goals of this proposal are restoration and protection of the water quality for all beneficial uses in the East Fork Lewis watershed. This means a measurable improvement on TMDL criteria, which is a reduction in turbidity levels in Salmon Creek. Another long-term goal is to have this reach of the East Fork Lewis River meeting standards for water quality and taken off the 303(d) list. Activities in this proposal such as streambank restoration, non-native invasive plant removal, and re-vegetation of the riparian areas, will stabilize streambanks (reducing sediment and turbidity) and reduce water temperatures by providing shade.

Using the method described above, estimate the water quality and public health benefits that will be achieved through implementing of the proposed project.

It is expected that both bacteria and temperature parameters will significantly improve over time as the project becomes established. Also,

Other water quality benefits recognized as effective by other TMDL's as appropriate corrective actions include Improved floodplain function by replacing a monoculture of reed canary grass with a wide variety of native, woody vegetation. One hundred percent of the floodplain in the project area will be planted with woody vegetation that will significantly improve floodplain permeability by providing extensive rooting systems that will allow up to 8o% better infiltration. This will be accomplished through an accelerated and aggressive planting approach to rapidly create a closed canopy to prevent invasive non-native from getting reestablished. Increased native riparian vegetation along McCormick Creek and improved water quality will reduce erosion and excessive sedimentation. Native canopy vegetation provides necessary shade that regulates and cools water temperature. The resulting well vegetated floodplain will help reduce stream velocities and improve infiltration reducing flood waters and increase summer flows. Installed trees, will in the long term provide large wood, that when recruited by streams. add channel and floodplain roughness important for regulating water temperature.

How long will the project provide a water quality benefit after the funding assistance ends? Who will be responsible for maintaining this benefit during its useful life?

Based on the goals of creating a self-sustaining, resilient native plant community water quality benefits should be perpetual. The RECIPIENT will continue to monitor and address any potential plant survival through year 10. Based on ecology' s mitigation criteria this is sufficient time to ensure the project will be effective and successful in the decades to come. Also, the property is owned by Clark County through their Conservation Futures program which will protect the site indefinitely.

Will any measures be taken to reduce greenhouse gases as part of the project? What policies or measures has your organization put in place to reduce greenhouse gas emissions apart from this project?

The long-term, large-scale environmental goals of this proposal are restoration and protection of water quality for all beneficial uses in the East Fork Lewis River watershed. Another long-term goal is to have the river meeting standards for water quality and taken off the 303(d) list. Activities in this proposal such as non-native invasive plant removal and riparian planting will stabilize streambanks (reducing sediment and turbidity) and reduce water temperatures by providing shade.

Upload a map or maps that show an aerial view of the project area, an estimated direction of flow for the project area, potential locations for the proposed facility or activity, and how the project connects to the water body named above.

These maps do not need to be precise but they should help the reviewer with a general understanding of the area. If access to GIS software is not available, screen shots or snips from Google Maps with arrows and text added using a paint program may be used.

Attachment Description	Attachment
Location Map	_Upload/98378_906599-McCormick_Creek_Location_ECY2020-00160.pdf
McCormick Creek Fish Habitat Rpt - Temperature pg 5	_Upload/98378_906599_2-McCormickFinalDesignReport100815.pdf

Environmental and Cultural Review

Instructions:

Please upload the appropriate documents.
The type of project and the funding source you're applying for or have received determines the Environmental and Cultural Review documents that you must upload.
When done, click the SAVE button.

If you have a wastewater or stormwater facility project, and you are applying for or have received a loan from the CWSRF, when applicable upload the following documents.

SEPA Checklist
SEPA Threshold Determination
Affidavit of Publication of SEPA Threshold Determination
Public Meeting Documents
SERP Coversheet
SERP Checklist
SERP Determination
Other SERP/SEPA Documentation
Ecology 05-05/106 Review Form
EZ-1 Form (If Ecology is the lead agency, an Ecology 05/05-106 Form is required)
Cultural Review Final

Determination
DAHP Letter of Concurrence
Completed activity/location specific Inadvertent Discovery Plan (IDP).

An IDP is not associated with consultation and is required in the event of a discovery during ground disturbance.

In addition to the above documents, if you are required to prepare a federal cross cutter report, when applicable upload the following documents.

Cross Cutter Report
Cross Cutter Checklist
Cross Cutter Final Determination

If you have a stormwater facility project, and you are applying for or have received funding via SFAP but not CWSRF, when applicable upload the following documents.

SEPA Checklist
SEPA Threshold Determination
Affidavit of Publication of SEPA Threshold Determination
Ecology 05-05/106 Review Form
EZ-1 Form (If Ecology is the lead agency, an Ecology 05/05-106 Form is

required)
Cultural Review Final Determination (No sensitive information allowed)
DAHP Letter of Concurrence
Completed activity/location specific Inadvertent Discovery Plan (IDP).

An IDP is not associated with consultation and is required in the event of a discovery during ground disturbance.

If you have a nonpoint activity, an onsite sewage system, or a stormwater activity project, regardless of the funding source, when applicable upload the following documents.

✔ Ecology 05-05/106 Review Form
✔ EZ-1 Form (If Ecology is the lead agency, an Ecology 05/05-106 Form is required)
Cultural Review Final Determination (No sensitive information allowed)
DAHP Letter of Concurrence
✔ Completed activity/location specific

Inadvertent Discovery Plan
(IDP).

An IDP is not associated with consultation and is required in the event of a discovery during ground disturbance.

Upload Documents

Description	Attachments
0505 Form	_Upload/98381_907011-05-05CultResources-McCormickCreek.docx

Uploads

Description	Attachments
Photos	_Upload/98607_884773-McCormickCreekPhotos.docx
SFY20 Funding Offer Letter	https://ecyeagl/IntelliGrants_BASE/_Upload/98607_884825-FundedEXCEPTGMAnoncompliant_Part13.pdf

Screening, Eligibilities, and Additional Requirements Checklist

Select “Followup” to draw attention to anything that either the Fund Coordinator or future Financial or Project Manager need to be aware of.

Topic	Checked	Comment	Followup
On the General Information Form, confirm that the Project Title and Short Description are free of obvious errors, misspellings, or grammar mistakes. Return to the applicant for modifications if needed.	✔	Correct sub-category. Looks good.	
On the General Information Form and the Funding Request Form evaluate whether the funding requested plus other sources of funding is adequate. Return to the applicant for modifications if needed.	✔	TEC $333,333 Using volunteer labor, other grants, and cash to match ($83,333 match). Match is eligible but will need information on the other grant(s).	
On the General Information Form and the Project Information Form, evaluate whether the Effective Date, Project Start Date, and the Expiration Date are reasonable given the project type and complexity. Return to the applicant for modifications if needed.	✔	7/1/2019 to 6/30/2022, start date within effective dates.	
Evaluate the Project for general eligibility. If potentially ineligible, change status to "Application Potentially Ineligible".	✔	All aspects looks eligible but will need to follow up to make sure that all buffer widths are appropriate.	
Evaluate the project for specific eligibilities. If there are components that appear to be ineligible for one or more funding sources, check the box next to "Scope of Work includes ineligible components." below and describe the ineligibilities in the Comment column.	✔	Planting and maintaining riparian buffers along 2,600 feet of stream (approx. 20 acres), meeting Appendix G buffer requirements (100' buffers along creek, 35' along tributaries according to Buffer Map). However, they do not mention 100' buffer in Task 4, Section K, so this will need to be clarified. Removing invasives, bank stabilization, placement of about 60 pieces of LWD. Conducting education and outreach at many events. All proposed BMPs and components are eligible but will need to follow up on buffer widths.	

Screening, Eligibilities, and Additional Requirements Checklist

On the Subcategory Form, confirm that the correct Yes/No answers are checked. Return to the applicant for modifications if needed.	✔	All no.
If a Nonpoint Source Activity project and it includes BMPs, determine if project is on state- or federally-owned land. If so, change status to "Application Potentially Ineligible".	✔	Private land, will need Landowner Agreements.
If a Nonpoint Source Activity project, determine if the project is eligible for Section 319 funding and state the reason in the Comment field.	✔	Centennial grant. PUD implementing BMPs but does not address TMDL.
If a Nonpoint Source Activity project, determine if the project addresses a watershed-based plan or TMDL that includes EPA's 9 key elements. If so, state this is in the Comment field.	✔	Does not address TMDL. East Fork Lewis Creek TMDL in development.
If a Stormwater Facility Construction project, confirm that the following document was uploaded and adequate: Ecology's letter approving the Plans and Specifications. Return to the applicant for modifications if needed.	✔	N/A
If the GPR Form was completed, verify GPR eligibility against EPA guidance. If additional documentation or a business case is required, check the followup box and explain in the Comment field.	✔	N/A
If a Wastewater Facility Refinance project, confirm that a copy of the following were uploaded and adequate: (1) Ecology's letter approving the Facility Plan; (2) Ecology's letter approving the Plans and Specifications; and (3) the Declaration of Construction of Water Pollutions Control Facilities. Return to the applicant for modifications if needed.	✔	N/A
If the Financial Hardship Form was completed and the applicant answered "Income Survey" as the source of	✔	N/A

the MHI amount, confirm that an Income Survey was uploaded and check the followup box (an evaluation of the income survey will occur later). Return to the applicant for modifications if needed.

Additional Comments

Looks good. Eligible overall, just want to make sure the appropriate buffer requirements are being met and that any grants used as match are eligible.

Upload Documents

Click the Browse button
Select your file
Click Save, your file will appear in the List of uploaded documents
Reapeat for each fike
To delete a file, select the Delete checkbox next to the tile and click SAVE

Offer Letter Paragraphs: Check all that apply:

For Screeners

- ✔ Scope of Work includes BMP Implementation.
- Scope of Work includes collecting ambient Water Quality Data.
- Project appears to duplicate previously funded work.
- Scope of Work includes ineligible components.
- Project Administrative cost in Task 1 is >15% of Total Eligible Costs.
- Task Costs are unclear
- ✔ Project includes BMPs on private property. Land Owner agreements must be included.

For Fund Coordinator

- Project includes land acquisition.
- Project is a Design, Construction, or combined Design/Construction project offered funding. An Investment Grade Efficiency Audit (IGEA) may be required.
- Project is a facility project offered funding. It may be subject the GMA.

Project eligible for 319 funding, but offered centennial grant funding.
Project offered 319 funding.
Project is offered hardship funding.
Project is offered CWSRF loan. A Financial Capability Assessment is required.
Project is an activity project offered >$250,000 in grant. Cash match is required.
Project is a Step 3 or Step 4 wastewater facility project offered a CWSRF loan and designated as an equivalency project. Compliance with the federal environmental cross cutters must be confirmed, and the federal standards for architectural and engineering services procurement apply.
Project is a wastewater or stormwater facility project offered a CWSRF loan and that includes a construction component. The applicant must certify it has prepared a Fiscal Sustainability Plan or an equivalent plan(s).
Project is being conducted by a public body and is offered a CWSRF loan. The applicant must certify is has conducted a Cost and Effectiveness Analysis.

For Project Management Team

Project is on increased oversight.

Designated for increased oversight on:

Provide an explanation of the factor(s) used to determine that increased oversight is needed and the measures used to implement increased oversight.

Other notes for offer letter paragraphs:

Reviewer: Leanne Whitesell

✔ **Evaluation Finished?**

Category	Criteria Number	Evaluation Criteria	Score	Justification For Score
Scope of Work - Additional Tasks	1.1	The scope of work represents a complete and concise description of the project tasks and outcomes, including deliverables and timelines.	13/75	Minimum match required is identified in the secured funding table. Match is provided by multiple entities. No documentation that the matching funds are eligible or committed to the project.
Project Schedule	2.1	The project schedule includes all tasks including pre-project administrative elements such as permitting, MOUs, land owner agreements, etc., and provides sufficient time to complete all elements.	67/25	Scope of work is consitent with addressing the temperature issues in the watershed. Unclear on how many acres this project is impacting - 12 acres (remove invasive species) or 20 acres (riparian resoration)? Budget is for 20 acres. Maintenance on project should be a minimum of 10 years, not 2. Beaver barrier is not mentioned in scope of work or deliverables but is budgeted under Task 4 (would fit better in Task 3). Several items from Task 4 (a, e, and f) are redundant from Task 2 (a, b, c). Modify Task 4K because minimum buffer widths for this project is 100'. Unclear on

				the purpose of the education and outreach program. What are you promoting? Materials to be distributed should include native planting, especially trees along waterways, and bacteria management in both ag and urban settings.
	2.2	The applicant is ready to start on the proposed scope of work and can begin drawing down funds.	/75	
Task Costs/Budget	3.1	The application demonstrates how the applicant arrived at the cost estimate for each task. The process used by the applicant to develop this estimate is based on real-world data.	40/50	Itemized budget provided based on task. No hourly estimates, cost per acre, or cost per foot have been provided. Unclear why total project cost is $556,000. Budget includes additional maintenance cost but only $43,600. What is included in the rest of this project? Costs from similar projects were used to develop budget, but numbers were not provided to determine applicability.
	3.2	The cost to complete the scope of work is reasonable when compared to similar projects in the region.	67/85	Costs are minimized through the use of volunteer and correctional crew labor. Project budget is reasonable for 20 acres of restoration. No discussion on if this is the lowest cost option or if alternative projects were

				considered.
Additional Funding Information	4.1	Applicant has identified adequate matching funds. (Full points if no match is required.)	50/15	All team members are with the organization. The applicant has a lot of experience working on these restoration projects and working with Ecology on grant management. When the applicant struggled with meeting some of the administrative responsibilities, they brought in a new team member to help meet deadlines.
Project Team	5.1	Team members' roles and responsibilities are well defined and adequate for the scope of work. Team members' past experience is relevant to the proposed project. Applicant has a plan in place to maintain sufficient staffing levels to complete the project.	20/50	Schedule outlines work to be completed before the grant term begins (January 2019). Any work completed prior to July 1, 2019 can not be reimbursed or counted as match. Schedule doesn't include outreach activities, progress reports, or final report. Would be better if schedule was broken out by month or quarter, rather than year.
	5.2	Team members' past experience is relevant	75/15	Design for the stream bank stabilization project has been complete. Permitting process has begun. Team is in place and ready to start work. Land is owned by the applicant, so there should be no issues with getting started on

				the implementation project.
Project Planning & Developme nt	6.1	Applicant used a complete and well-defined set of criteria to determine the value and feasibly of the proposed project and included the useful life and long-term maintenance costs in their evaluation of the project and project alternatives.	32/40	Applicant discussed the value of the project and it's importance to partnering organizations. The site is suitable for this project and BMPs will impact the pollutants of concern. Project will reduce temperature, but there are no quantifiable measures provided to determine the value of this project. No discussion regarding if this is the lowest cost option and if alternatives were considered. It is unclear how long the project will provide benefit, as the applicant only committed to 2 years of maintenance, but the project requires 10 years of maintenance.
	6.2	Applicant has provided documentation showing that key stakeholders have been identified and will support the project.	16/20	Stakeholders were listed with some description on how they will support the project. No letters of support were submitted with the application. No letters from landowners (applicant owns most of the land, but there are 4 adjacent parcels impacted by the project).
Water Quality &	7.1	Project proposes to reduce or prevent pollution in a waterbody that has been	120/135	Waterbodies have been identified along with pollutants of concern

Public Health Improvements		identified as a priority by a local, state or federal agency.		(fecal bacteria and temperature are on the 303d list). A TMDL alternative is under development for this watershed, but only briefly mentioned in application. Other regional plans prioritized riparian restoration in this area. Unclear how other pollutants of concern listed in this application are impacting this watershed (dissolved oxygen, sediment, nitrogen, phosphorus, and pH).
	7.2	The proposed project area is directly connected to the water body identified for improvement and applicant has provided sufficient technical justification to show the proposed project will reduce the pollutants of concern in the water body identified for improvement.	119/150	No activity directly relating to bacteria impairment. Primary focus is to increase shade through the creation of a buffer and there may be secondary benefits from filtering bacteria. Would have liked to have seen more connection between this project and the adjacent agricultural land use. Are there any activities being done to reduce bacteria from running off the land in the first place? There is no clear discussion on sediment water quality issues or site description to support the stream bank stabilization, LWD installation, and beaver barrier creation at this project site.

7.3	Applicant has identified how each task will be evaluated in order to determine success, noted if the measure is quantitative or qualitative, and defined a goal.	40/50	Deliverables are quantified (trees planted, LWD installed), but no load reductions or other water quality benefits have been provided. Missing deliverables on brochures distributed in Task 5.
7.4	The project will achieve substantial water quality and public health benefits.	89/100	Temperature will likely decrease and fish will benefit, in time, from this project. However, the project will have more impact on the EF Lewis River, rather than McCormick's Creek since it's at the mouth of the watershed. Would like to see if there are plans to work upstream (Will Clark College's new campus negatively impact this project?). Would have liked to have seen more connection between this project and the adjacent agricultural land use. Are there any activities being done to reduce bacteria from running off the land in the first place?
7.5	Applicant has a plan and commitments in place to fund long-term maintenance and sustain the water quality benefits of this project.	30/50	Recipient will maintain site for 2 years, but Ecology requires the site to be maintained for 10 years.
7.6	How well does the applicant and the project address greenhouse emission	12/15	The project proposes to increase vegetation, which will offset

reductions in accordance with RCW 70.235.070?	greenhouse gas emissions.

TOTAL 802/950

Action Items/ Offer Letter Notes/ Eligibility Notes

Schedule outlines work to be completed before the grant term begins (January 2019). Any work completed prior to July 1, 2019 can not be reimbursed or counted as match.
If funded, ensure that applicant is aware of ALL Ecology requirements for BMP implementation during negotiation , specifically pre-construction paperwork and long-term maintenance.

Offer Amounts	Funding Source*	Funding Category	Amount*	Int Rate	Term
		319	$0	%	
		Centennial hardship grant	$0	%	
		Centennial Preconstruction Grant	$0	%	
	Centennial-2020	Centennial non point source	$250,000	%	
		Stormwater Grant	$0	%	
		CWSRF Activity	$0	%	
		CWSRF Facility	$0	%	
		CWSRF Preconstruction Loan	$0	%	
		CWSRF Preconstruction Forgivable Principal	$0	%	
		CWSRF GPR Loan	$0	%	
		CWSRF GPR Forgivable Principal	$0	%	
		CWSRF Hardship Forgivable Principal	$0	%	

Offer Comments

Upload Proposed Funding Letter (Draft List) and Funding Offer Letter (Final List) here.

Organization: Clark Public Utility District

WQC-2020-ClaPUD-00160

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Evaluation Summary

Number of Evaluators	2
Financial Hardship	0 /50
Reviewer Average - TOTAL Score	810.5 /1000
Final Score	810.5
Rank	54

Final Review Comments