
General Information

Project Title

Burnt Bridge Creek Critical Lands Acquisition

Project Short Description

Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect an open space, restore riparian habitat, and increase tree canopy to improve air and water quality, support a healthier aquatic community, and lower risk to human health.

Preserving green spaces throughout Vancouver is particularly important in areas with fewer outdoor amenities, and higher percentages of low-income or vulnerable individuals, to improve health equity in our community.

Project Long Description

Purchasing undeveloped property in the riparian corridor of Burnt Bridge Creek will allow the City to preserve and restore native vegetation in an area that provides habitat for fish and wildlife. Maintaining open spaces wherever possible within the Greenway will benefit water quality by removing airborne and rainfall runoff pollutants through natural processes in the soil and vegetation as water is infiltrated or taken up by plants. Improving tree canopy will provide shade to Burnt Bridge Creek which is important to the TMDL implementation goal of reducing stream temperature.

Urban green spaces are associated with better air quality, reduced traffic noise, cooler temperatures, and greater diversity. Increasing the number and quality of green spaces in our community can mitigate some of the climate pollutants that produce global warming and impact human health.

Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect water quality, sustain flow contributions to the stream, and restore riparian habitat. The property will be maintained in perpetuity as a public asset. Preserving open space through the riparian corridor will improve air and water quality, support a healthier aquatic community, and lower risk to human health.

The property under consideration is directly east of the I-205 freeway corridor. The EPA Environmental Justice Screen Report for this census block has an EJ Index for traffic proximity and volume at 89 percent of the state percentile; indicating elevated risk to human health and potentially susceptible individuals.

Few undeveloped parcels near the creek are available for purchase in this highly urbanized watershed.

General Information

Preventing the creation of additional impervious surfaces close to the creek will not only protect stream recharge but also eliminate risk for contaminated stormwater runoff to rapidly reach groundwater or the stream.

Aquatic and wildlife communities depend on open spaces and the waterbodies that support the natural ecosystem. Connectivity and corridors available in the upland, riparian, and streambed habitats are vital to support structural and species diversity. Maintaining and expanding open space in this reach of Burnt Bridge Creek will protect and enhance the natural drainage patterns from surface and groundwater that flow to the stream.

There are five parcels the Developer/Owner is interested in selling, see uploaded parcel information map and letter of support. They total 2,315 LF of creek frontage, and total over \$561,000 in Assessor Valuation. Environment evaluation and market appraisals will be conducted to determine the cost-benefit for each parcel to rank and purchase within the maximum budget of \$500,000.

Total Cost \$500,000.00 **Total Eligible Cost** \$500,000.00

Effective Date 7/1/2022 **Expiration Date** 12/31/2024

Project Category
 ✓ Nonpoint Source Activity
 Onsite Sewage System
 Stormwater Activity
 Stormwater Facility
 Wastewater Facility

Will Environmental Monitoring Data be collected? No

Ecology Program Water Quality

Overall Goal Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect an open space, restore riparian habitat, and increase tree canopy to improve air and water quality, support

General Information

a healthier aquatic community, and lower risk to human health.

The property will be maintained in perpetuity as a public asset and provide access for water quality and biological assessment monitoring and evaluation. Increasing tree canopy will provide shade to Burnt Bridge Creek which will support a TMDL implementation goal of reducing stream temperature .

The City of Vancouver's Urban Forestry Program mission is to maximize environmental and economic benefits that trees provide by preserving, managing, and enhancing existing trees and promoting the reforestation of the urban area. Few undeveloped properties remain along the mainstem of Burnt Bridge Creek and purchase of this property is an opportunity to support multiple goals that benefit the stream and our community.

WATER QUALITY COMBINED FINANCIAL ASSISTANCE

Organization: Vancouver city of

WQC-2023-Vancou-00186

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): Land Acquisition

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
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Recipient Contacts

Project Manager

Annette Griffy

Contact Information

Annette Griffy
Utility Engineering Program
Manager
P.O. Box 1995
Vancouver, WA 98668
Vancouver, Washington 98668
(360) 487-7190

annette.griffy@cityofvancouver.us

Authorized Signatory

Eric Holmes

Contact Information

Eric Holmes
City Manager
415 W. 6th Street
PO Box 1995
Vancouver, Washington 98668
(360) 487-8641
(360) 487-8625
eric.holmes@cityofvancouver.us

Billing Contact

Joshua Francis

Contact Information

Joshua Francis
Accountant

Recipient Contacts

4500 SE Columbia Way
Vancouver, Washington 98660
(360) 487-7199

joshua.francis@cityofvancouver.us

Other recipient signatures on printed agreement

Name

Title

Funding Request- Nonpoint Project

Total Eligible Cost: \$500,000
Grant Request: \$375,000
Match Required: \$125,000

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.

Will your match be cash-only? Yes No

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

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.

Do you want your project to be considered for GPR subsidy under the CWSRF program? Yes No

NOTE: Projects are only eligible if they meet EPA's GPR criteria, and applicants accept a CWSRF loan.

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.

Source	Type	Amount Committed
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State/Federal agency:

WATER QUALITY COMBINED FINANCIAL ASSISTANCE

Organization: Vancouver city of

WQC-2023-Vancou-00186

Funding Request- Nonpoint Project

State/Federal agency:

State/Federal agency:

Interlocal contributions:

Interlocal contributions:

Interlocal contributions:

Local agency: City of Vancouver Storm Utility

Cash

\$125,000.00

Local agency:

Local agency:

In-kind contributions:

In-kind contributions:

In-kind contributions:

Other

Other

Other

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

Task Number	1
Task Title	Grant and Loan Administration
Task Cost	\$6,000.00

IMPORTANT NOTICE. The cost of this task should not exceed 15% of the Total Eligible Costs you entered on the General Information form.

Task Description	<p>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; the EAGL (Ecology Administration of Grants and Loans) recipient closeout report; and a two-page outcome summary report (including photos, if applicable). In the event that the RECIPIENT elects to use a contractor to complete project elements, the RECIPIENT shall retain responsibility for the oversight and management of this funding agreement.</p> <p>B. The RECIPIENT shall keep documentation that demonstrates the project is in compliance with applicable procurement, contracting, and interlocal agreement requirements; permitting requirements, including 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. This documentation shall be available upon request.</p> <p>C. The RECIPIENT shall maintain effective communication with ECOLOGY and maintain up-to-date staff contact information in the EAGL system. The RECIPIENT shall carry out this project in accordance with any completion dates outlined in this agreement.</p>
Task Goal Statement	Properly managed and fully documented project that meets ECOLOGY's grant or loan administrative requirements.
Task Expected Outcomes	<ul style="list-style-type: none"> * 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 Annette Griffy

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	Latitude (expressed in decimals)	Longitude (expressed in decimals)	Location Address
1.1	Progress Reports that include descriptions of work accomplished, project challenges or changes in the project schedule. Submitted at least quarterly.						
1.2	Recipient Closeout Report (EAGL Form)						
1.3	Two-page Outcome Summary Report						

Scope of Work - FOR APPLICATION

Task Number	Task Cost
Task #1	\$6,000.00
Task #2	\$494,000.00
Task #3	\$0
Task #4	\$0
Task #5	\$0
Task #6	\$0
Task #7	\$0
Task #8	\$0
Task #9	\$0
Task Total	\$500,000.00

Task #: 2

Task Title: Property Acquisition

Task Cost: \$494,000.00

Expected Start Date: 7/1/2022

Expected Finish Date: 12/31/2024

Describe the work that will be billed to this task. (char 3,500)

Work that will be billed to this task Includes environmental evaluation , title search, property appraisal, City Legal and Property Management support as needed to negotiate the purchase and develop a sales agreement and City Council approval process.

Deliverables

To Add a Row

Enter a deliverable
 When done, click the **SAVE** button
 After SAVE a new row will appear
 Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes
 When done, click the **SAVE** button
 After SAVE the row will be deleted

Scope of Work - FOR APPLICATION

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description	Deliverable Date	Deliverable Budget
Environmental Review Report	6/30/2023	\$9,000.00
Title Search	6/30/2023	\$4,000.00
Appraisal	12/31/2023	\$3,000.00
Purchase & Sales Agreement	6/30/2024	\$2,000.00
City Council Approval	9/30/2024	\$1,000.00
Final Purchase & Recording	12/31/2024	\$475,000.00
		Total Deliverable Budget: \$494,000
		Total Task Costs:

Task #: 3

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable
 When done, click the **SAVE** button
 After SAVE a new row will appear
 Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes
 When done, click the **SAVE** button
 After SAVE the row will be deleted

Scope of Work - FOR APPLICATION

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Deliverable Budget: \$0

Task #: 4

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

After SAVE a new row will appear

Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Scope of Work - FOR APPLICATION

Total Deliverable Budget: \$0

Task #: 5

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

After SAVE a new row will appear

Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Deliverable Budget: \$0

Task #: 6

Scope of Work - FOR APPLICATION

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

After SAVE a new row will appear

Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Deliverable Budget: \$0

Task #: 7

Task Title:

Task Cost:

Expected Start Date:

Scope of Work - FOR APPLICATION

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

After SAVE a new row will appear

Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Deliverable Budget: \$0

Task #: 8

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Scope of Work - FOR APPLICATION

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

After SAVE a new row will appear

Repeat these steps for each deliverable

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Deliverable Budget: \$0

Task #: 9

Task Title:

Task Cost:

Expected Start Date:

Expected Finish Date:

Describe the work that will be billed to this task. (char 3,500)

Deliverables

To Add a Row

Enter a deliverable

When done, click the **SAVE** button

To Delete a Row

In the row you want to delete, remove the information in all of the textboxes

When done, click the **SAVE** button

Scope of Work - FOR APPLICATION

After SAVE a new row will appear
Repeat these steps for each deliverable

After SAVE the row will be deleted

Deliverables Table (Deliverables are documents that can be uploaded into EAGL to show that work was completed; deliverables should align with the detailed budget provided on the Task Costs and Budget Form and the project schedule uploaded on the Project Planning and Schedule Form.)

Deliverables Description

Deliverable Date

Deliverable Budget

Total Task Costs: \$500,000

Total Deliverable Budget: \$0

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.

The estimate of cost is based upon previous city property acquisitions including costs for environmental evaluations, title search and property appraisals. The estimate for the cost for the property is currently based upon Clark County Assessor GIS, see uploaded document with parcel map and prioritization information. An environmental evaluation and market appraisal will be conducted, then parcel ranking for acquisition will be based on the cost per benefit and the total budget. It is anticipated that the total appraisal will be less than the Assessed Valuation due to property development constraints with proximity to the creek and presence of wetlands.

Has the proposed project been demonstrated to be 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.

Property acquisition of creek frontage and associated wetlands has been a city goal for the benefit of Burnt Bridge Creek water quality for decades. There is currently a TMDL alternative water cleanup plan underway for Burnt Bridge Creek. It is anticipated that the prescription for the creek will include creek side shading to address high water temperatures. These parcels are well suited for the purpose of tree plantings, riparian restoration, and wetland preservation. Acquiring these parcels is the best solution to provide benefits to the creek water quality in this reach. No lower cost solution is available for the city to ensure that the properties are planted to shade the creek.

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

Click the Browse button

Select your file

Click Save, your file will appear in the List of uploaded documents

Repeat for each file

To Delete a file, select the Delete checkbox next to the file and click SAVE

Estimate and Schedule

https://ecyeagl/IntelliGrants_BASE/_Upload/186265_936438-PropertyAcquisition-ProjectEstimateSchedule.xlsx

Project Team

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

Team Member Name/and or Title	Agency/ Company Name	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?
Annette Griffy, P.E, Surface Water Utility Manager	City of Vancouver	Will manage the overall project including environmental evaluation, appraisal, title search and purchase agreement.	BSCE, Professional Engineer, 35 years experience in stormwater and wastewater engineering, planning, construction, and administration. As Vancouver's stormwater Program Manager has overseen the design and implementation of over a dozen Ecology-funded stormwater grants.	100.0 0	Kris Olinger, PE is Senior Civil Engineer in Storm Engineering and is the next Manager in line.
Joshua Francis, Accountant	City of Vancouver	Preparation of financial information and reimbursement requests	Two years of governmental accounting including 1 year of experience preparing financial & reimbursement requests for active City of Vancouver Ecology-funded grants	75.00	Accountant or financial manager
Kris Olinger, P.E., Senior Civil Engineer	City of Vancouver	Grant and project management including reporting as needed.	BSCE, Professional Engineer, 15 years of experience in stormwater engineering. Kris is the project manager on the Ecology-funded Columbia Slope Stormwater Retrofit	40.00	Environmental Scientist

Project Team

Study-WQC-2020-Vancou-00020 and has managed other stormwater planning and design projects including Ecology and EPA funded grants. Kris manages inspection staff responsible for portions of the City's Municipal Stormwater Phase II Permit.

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.

The city of Vancouver Surface Water Management group has completed many property acquisitions within the Burnt Bridge Creek Greenway . Lessons have been learned that specifically effect scope , budget and schedule.

Funding for property acquisition within the Stormwater Utility has been limited after the recession. Since that time the city has received a few land donations, but opportunities for other property acquisitions have been lost due to lack of funds. For this property acquisition grant the Owner/Developer of these properties is interested in a sale to the city, but not a land donation. Having a willing seller is an opportunity for success for obtaining properties.

Acquisition of these key creekside parcels will be of benefit for the prescription from the TMDL Alternative plan . There is no lower cost benefit opportunity for the city to insure the properties will be used for the highest and best benefit for water quality of Burnt Bridge Creek. Due diligence with environmental evaluation of the property and an appraisal reflecting the critical areas present on the property is a lesson learned that can affect the cost per acre.

Project Planning and Schedule

Project Start Date 7/1/2022

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

List and describe the criteria you used to determine the value and feasibility of the project.

Examples: useful life, installation cost, site suitability, and environmental justice.

Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect water quality, sustain flow contributions to the stream, and restore riparian habitat. The property will be maintained in perpetuity as a public asset. Preserving open space through the riparian corridor will improve air and water quality, support a healthier aquatic community, and lower risk to human health.

Improving tree canopy will provide shade to Burnt Bridge Creek which is important to the TMLD implementation goal of reducing stream temperature.

Urban green spaces are associated with better air quality, reduced traffic noise, cooler temperatures, and greater diversity. Increasing the number and quality of green spaces in our community can mitigate some of the climate pollutants that produce global warming and impact human health.

The property under consideration is directly east of the I-205 freeway corridor. The EPA Environmental Justice Screen Report for this census block has an EJ Index for traffic proximity and volume at 89 percent of the state percentile; indicating elevated risk to human health and potentially susceptible individuals.

Briefly describe all project alternatives (including the preferred alternative) considered, and explain how each alternative met or failed to meet the criteria listed above.

Use one line for each alternative and click "save" to enter additional alternatives.

Description of Alternative

Purchase property to preserve and restore riparian and upland area with increased tree canopy and understory vegetation.

Criteria

Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect water quality, sustain flow contributions to the stream, and restore riparian habitat. The property will be maintained in perpetuity as a public asset. Preserving open space through the riparian corridor will improve air and water quality, support a healthier aquatic community, and lower risk to human health.

 Project Planning and Schedule

Improving tree canopy will provide shade to Burnt Bridge Creek which is important to the TMLD implementation goal of reducing stream temperature.

Urban green spaces are associated with better air quality, reduced traffic noise, cooler temperatures, and greater diversity. Increasing the number and quality of green spaces in our community can mitigate some of the climate pollutants that produce global warming and impact human health.

The property under consideration is directly east of the I-205 freeway corridor. The EPA Environmental Justice Screen Report for this census block has an EJ Index for traffic proximity and volume at 89 percent of the state percentile; indicating elevated risk to human health and potentially susceptible individuals.

This meets all of the criteria for successful acquisition of property to benefit the water quality of Burnt Bridge Creek. Also, there is a willing Developer/Owner to discuss sell the properties.

Do not purchase property.

Lost opportunity to retain critical open space along Burnt Bridge Creek. If the property becomes fully developed the increase of impervious surfaces may contribute further to water quality impairment.

Full restoration, with significant tree canopy, will not be possible and the benefit to air and water quality will be limited.

List project stakeholders and provide documentation showing key stakeholders have been identified and will support the project.

Many of the key stakeholders are predominately those identified in the Burnt Bridge Creek TMDL Alternative Plan process . Department of Ecology, Water Quality Implementation Specialist and TMDL Lead, Devan Rostorfer has supported the city's acquisition of the properties along Burnt Bridge Creek.

Project Planning and Schedule

Letters of support are uploaded and include; the current Property Owner/Developer, Keith James from the Inland Group, the City's Urban Forester, Charles Ray, and the Executive Director of the Watershed Alliance of SW Washington, Sunrise O'Mahoney.

Describe the steps you have taken to be ready to start the project by May 1, 2023. 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.

Discussions have already been occurring with the Developer/Owner of the parcels. The environmental evaluation, appraisal and title search will be hired out with the technical professionals as soon as grant funding is available. No design, permit, interlocal agreement, or easements are required. Funding for land acquisition is secured in the budget for the Stormwater Utility, Staff resources are available and back up is plentiful, City Legal and Property Managers are available as needed, and Council Approval can be obtained prior to acquisition.

For stormwater facility and wastewater facility projects: Do you own or have clear control over the entire project area?

Yes No Not Applicable

For stormwater facility and wastewater facility projects requiring road cuts: When was the last time the road was resurfaced or reconstructed? This is for informational purposes; no points are associated with this question.

Date:

Have you reviewed the area of potential effect (APE) in the Washington Information System for Architectural and Archaeological Records Data (WISARRD) database? This is for informational purposes; no points are associated with this question

Yes No Not Applicable

Please explain why you selected not applicable: This is only a land acquisition.

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

Upload any other supporting documentation.

Upload Documents

Project Planning and Schedule

https://ecyeagl/IntelliGrants_BASE/_Upload/186274_936443-PropertyAcquisition-ProjectEstimateSchedule.xlsx

Estimate and Schedule

Water Quality and Public Health Improvements

To go to the Water Quality Atlas, follow this link: <https://fortress.wa.gov/ecy/waterqualityatlas/StartPage.aspx>.

Name the specific water body(ies) this project will improve or protect and the parameters it will address.

Burnt Bridge Creek a 12.6-mile urban stream originates in wetlands and crosses Vancouver from east to west. Flows are primarily supported by rainfall and shallow groundwater. There are 159 public and private stormwater outfalls discharging into the stream which is currently listed as impaired by high temperatures, low dissolved oxygen, pH and elevated bacteria concentrations. Other parameters of concern in the watershed include nutrients, metals and pesticides.

Ecology's TMDL study identified multiple reaches where the stream is directly gaining or losing surface water in exchange with the shallow groundwater aquifer. (Surface/Groundwater Interactions, Ecology Publication No. 12-03-003, pp 20-21)

Contaminants can move between the two water resources through this path and reducing or preventing the construction of new impervious surfaces will also prevent additional sediment and pollutants such as bacteria, metals, petroleum products and pesticides from entering the stream.

Is the project planning, implementation, or a combination? (For facility projects: check "Planning" for planning and design projects; check "Implementation" for construction projects; check "Planning/Implementation" for combined design/construction projects.)

Planning

✓ Implementation

Planning/Implementation

What type of plan or regulatory requirement does this project address?

✓ TMDL/TMDL Alternative (approved or in development)/Straight to Implementation

Wastewater Engineering Report/Sewer Plan

Permit

Salmon Recovery Plan

Watershed Plan

Shoreline Master Plan

Administrative Order or Other Legal Action

Capital Improvement Plan

Puget Sound Action Plan

Mitigation

Water Quality and Public Health Improvements

Other
Not Applicable

If your project is addressing a TMDL, select at least one from the dropdown list.
To select multiple TMDLs, hold down the control key as you select

TMDL Name

Burnt Bridge Creek TMDL Alternative (In Development)

Enter the implementation action and plan reference in the Action Table. If this is a planning-only project, you may enter, "Not applicable, planning-only".

To add multiple implementation actions:

Enter the implementation action and plan reference.

When done, click the **SAVE** button.

After SAVE a new row will appear.

Repeat these steps for each implementation action.

Action Table

Action

In the upper watershed, efforts to plant vegetation should be pursued to reduce stream temperatures.

Reference the document that describe the action, including page numbers and where a copy can be obtained.

A TMDL alternative is currently in development, actions are not yet specified, but the BBC Watershed Source Assessment Report (ECY Publication 20-01-016 October 2020) has specific recommendations to improve water quality through stormwater management activities.

<https://apps.ecology.wa.gov/publications/documents/2003016.pdf>

Pg. 78 Achieve system potential riparian vegetation of 85% tree canopy in the BBC watershed wherever possible.

Implement riparian forest restoration on all priority planting areas where the soils and hydrology support forested conditions. Pg 55 Tbl 21 shows a 26% shade deficit in this reach.

BBC is included on the 303(d) list for high temp, low DO, pH and bacteria. Stormwater runoff from

Water Quality and Public Health Improvements

impervious surfaces can increase stream temperatures significantly during the critical season. By purchasing creek properties & increasing tree canopy, stream temperatures will improve. Expanding the habitat corridor will provide greater protection for aquatic life.

Did you discuss this project with Ecology staff? If yes, provide the name of the staff and the last date of contact.

The most recent outreach from Ecology staff was from Devan Rostorfer by email on October 7th. Information provided to Ecology at that time included a map of potential property purchases and the size of each lot plus lineal feet of stream along each of the properties.

Describe how the project drainage area connects to the water body.

Examples: surface flow, ditch, pipe, groundwater, infiltration, and path/distance to outfall/discharge.

Currently, the property under consideration is undeveloped and stormwater runoff is carried by overland flow directly to the stream or infiltrates and reaches the stream through groundwater seepage. In 2008, as part of Ecology's TMDL study, instream piezometers and surface water flow measurements identified streamflow gain from groundwater in this reach of Burnt Bridge Creek (Surface/Groundwater Interactions and Near-Stream Groundwater Quality along Burnt Bridge Creek Clark County, Ecology Publication No. 12-03-003, January 2012).

Property records from Clark County MapsOnline classify this area as Oak Woodland with a fish habitat stream. Soil types identified by the Soil Conservation Service Soil Survey include Hydric ThA and Non-Hydric LgB and SvA. Properties along the stream are within the floodway/floodway fringe with potential presence of wetlands noted but not field verified. (see map attached)

Purchasing property in this reach of Burnt Bridge Creek will allow the City to preserve and protect water quality, sustain flow contributions to the stream, and restore riparian habitat. Few undeveloped parcels near the creek are available for purchase in this highly urbanized watershed. Preventing the creation of additional impervious surfaces close to the creek will not only protect stream recharge but also eliminate risk for contaminated stormwater runoff to rapidly reach groundwater or the stream.

Aquatic and wildlife communities depend on open spaces and the waterbodies that support the natural ecosystem. Connectivity and corridors available in the upland, riparian, and streambed habitats are vital to support structural and species diversity. Maintaining and expanding open space in this reach of Burnt Bridge Creek will protect and enhance the natural drainage patterns from surface and groundwater that flow to the stream.

Water Quality and Public Health Improvements

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

If you need help determining a water quality metric, please refer to the Funding Guidelines for suggested metrics by project type. The City of Vancouver has been collecting water quality data at this location since 2011. Ecology also monitored at this location in 2008-2009 for the TMDL study. Data has shown water quality impairment from high temperature, low dissolved oxygen, and elevated nutrient and bacteria concentrations. Biomonitoring in 2002 and 2015 at Kevanna Park, just downstream of the property, showed degraded habitat and few macroinvertebrate species. Recommendations in the 2015 report included restoration aimed at improving the general morphology of the stream, increased riparian plantings and removal of pollutant sources to improve water quality. (<https://www.cityofvancouver.us/publicworks/page/stormwater-management-plan>)

Low flows can also negatively impact water quality. Instream flows are protected in Burnt Bridge Creek under the Salmon- Washougal and Lewis Watershed Management Plan, in accordance with RCW 90.82.130 and Chapter 173-528-060 WAC (<https://apps.ecology.wa.gov/publications/documents/0811056.pdf>). Preserving the limited open space in the riparian corridor of the watershed is protective of water quality and flow as the undeveloped parcels support a more natural flow regime. Restoring healthy habitat and riparian canopy will preserve the natural pollutant attenuation by infiltration through soil and uptake by vegetation.

Purchasing this property will allow the City to increase tree canopy and riparian habitat along the stream. Preserving open space through the riparian corridor will improve air and water quality, support a healthier aquatic community, and lower risk to human health. The City's long-term monitoring program expects to continue collecting data at this and downstream sites. Future bioassessment studies will also include the Kevanna Park site (immediately downstream of this property) so trends in stream health can be evaluated.

Using the method described above, estimate the water quality and public health benefits that will be achieved by the project.

Purchasing undeveloped property in the riparian corridor of Burnt Bridge Creek will allow the City to preserve and restore native vegetation in an area that provides habitat for fish and wildlife. Maintaining open spaces wherever possible within the Greenway will benefit water quality by removing airborne and rainfall runoff pollutants through natural processes in the soil and vegetation as water is infiltrated or taken up by plants.

Positive health, social, and environmental outcomes for all population groups have been linked with increased or improved urban green space. Eighty-eight percent of urban populations are exposed to levels of outdoor air pollution that exceed World Health Organization Air Quality Guidelines. (<https://www.un.org/en/chronical/article/green-spaces-invaluable-resource-delivering-sustainable-urban-health>)

It is our intent to increase tree canopy and understory vegetation on this creek-side property. Urban green spaces are associated with better air quality, reduced traffic noise, cooler temperatures, and greater diversity. Increasing the number and quality of green spaces in our community can mitigate some of the climate pollutants that produce global warming and impact human health.

Water Quality and Public Health Improvements

(<https://euro.who.int/en/health-topics/environment-and-health/urban-health/publications/2017/urban-green-space-interventions-and-health-a-review-of-impacts-and-effectiveness.-full-report-2017>)

The Environmental Protection Agency has developed a screening and mapping tool to identify areas where susceptible individuals may be exposed to elevated health risks based on environmental and demographic indicators. The Environmental Justice (EJ) Index evaluates multiple indicators including proximity to high volume traffic and other pollution sources for minority and low-income populations. This reach of Burnt Bridge Creek is directly east of the I-205 freeway corridor. The EJScreen Report for this census block (attached) shows an EJ Index for traffic proximity and volume at 89 percent of the state percentile, indicating elevated risk to human health in this census block from pollutant sources related to traffic. (<https://epa.gov/ejscreen>)

Green spaces preserved throughout Vancouver are particularly important in areas with fewer outdoor amenities, with higher percentages of low-income or vulnerable individuals, to improve health equity in our community. Contaminants from vehicle use and emissions impair both air and water quality.

Aquatic and wildlife species will also benefit from the expanded acreage and restored reach of the stream. Habitat fragmentation, reduction in size and connectivity of natural spaces, limits the diversity and health of animal and plant species. Even patches, or stepping-stone properties can form a corridor for travel and increase complexity in habitat available for existing species. (<https://smartcitiesdive.com/sustainablecitiescollective/corridor=ecology-and-planning/18365>)

How long will the project provide benefits after the funding assistance ends? Who will be responsible for maintaining the benefits during its useful life?

Once the property is purchased it will be maintained in perpetuity as a public asset. Vancouver established a sensitive lands operations and maintenance program after the first major Burnt Bridge Creek restoration project was implemented so that crews could effectively manage “greener” (less pipe and pavement) solutions. Through the training and experience obtained in implementing the successful Burnt Bridge Creek project, the City’ Greenway/Sensitive Lands crews have acquired considerable expertise in maintaining these types of vegetated projects. Riparian and wetland mitigation site restoration has been a key component of their work in the past 15 years.

How will greenhouse gas emissions be reduced or mitigated under this project? And what policies or measures has your organization put in place to reduce greenhouse gas emissions apart from this project?

It is our intent to increase tree canopy and understory vegetation on this creek-side property. Urban green spaces are associated with better air quality, reduced traffic noise, cooler temperatures, and greater diversity. Increasing the number and quality of green spaces in our community can

Water Quality and Public Health Improvements

mitigate some of the climate pollutants that produce global warming and impact human health.

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This reach of Burnt Bridge Creek is directly east of the I-205 freeway corridor. The EPA Environmental Justice Screen Report for this census block has an EJ Index for traffic proximity and volume at 89 percent of the state percentile. (<https://epa.gov/ejscreen>)

Increasing tree canopy supports the City of Vancouver's Urban Forestry Program goals . Data from a City tree canopy study was used to estimate that Vancouver's trees intercept 17,000 tons of air pollution each year at an economic value of \$78.3 million. The program mission is to maximize environmental and economic benefits that trees provide by preserving, managing and enhancing existing trees and promoting the reforestation of the urban area through an active, integrated program with community support and participation.

The City of Vancouver's Operating Principles and Strategic Plan Goals include reducing thermostats in City buildings on evenings and weekends, requiring all new City buildings meet LEED standards, providing a Commute Trip Reduction program, switching to LED lights in traffic signals and more efficient bulbs (T8) in facilities, incorporating hybrid vehicles into the fleet, using ultra low-sulfur diesel for heavy duty vehicles, retrofitting emission control devices on vehicles and implementing an anti-idling policy for all Operations vehicles.

Are you aware of any Category I or Category II wetlands on the site or downstream from the site? This is for informational purposes; no points are associated with this question.

Yes No Not Applicable

Upload a map that shows 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.

The map does not need to be precise, but it should help reviewers 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.

Upload Documents

Click the Browse button

Select your file

Click Save, your file will appear in the List of uploaded documents

Repeat for each file

To Delete a file, select the Delete checkbox next to the file and click SAVE

Water Quality and Public Health Improvements

https://ecyeagl/IntelliGrants_BASE/_Upload/186279_936442-EJReportCensusBlock51stCircle-Kevanna.pdf	Environmental Justice Report
https://ecyeagl/IntelliGrants_BASE/_Upload/186279_936442_2-NE51stCircleProperties-Wetlands.pdf	Parcel and Wetlands Map
https://ecyeagl/IntelliGrants_BASE/_Upload/186279_936442_3-ParcelMap,PrioritizationInformation.docx	Aerial Map of Project Area

WATER QUALITY COMBINED FINANCIAL ASSISTANCE

Organization: Vancouver city of

WQC-2023-Vancou-00186

Environmental and Cultural Resources Documentation

The purpose of this form is for you to note which documents you have provided your grant or loan manager and/or environmental/cultural resource reviewer for all Water Quality Combined Funding Program projects, regardless of funding source or project category. It is not a location for sensitive documentation such as cultural resource reports. Those will be removed if you upload them. Once you have provided the following documents, check them off and upload any non-sensitive documents.

Cultural Review Final Determination

Date of 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.

If you are applying for or have received a loan from the CWSRF, when applicable upload any of the following documents provided to support completion of environmental requirements.

NEPA Environmental Assessment or Impact Statement

SEPA Checklist

SEPA Threshold Determination

SEPA Environmental Impact Statement

Affidavit of Publication of SEPA Threshold Determination

Public Engagement and Outreach documentation, including Environmental Justice information

SERP Information Packet Coversheet

SERP request for NEPA Categorical Exclusion

SERP SEPA Finding of Categorical Exemption

SERP Determination

Other supporting environmental documentation as requested by Ecology

If you have a stormwater facility project, and you are applying for or have received state funding via SFAP and no federal funds under CWSRF, when applicable upload the following documents.

SEPA Checklist

SEPA Threshold Determination

Affidavit of Publication of SEPA Threshold Determination

Upload Documents

Any documents marked sensitive or do not disclose will be removed from EAGL by Technical Reviewers. If you received such a document, such as a cultural resource survey or monitoring report, send it directly to your Project Manager or Cultural Resource Contact.

Click the browse button

Select your file

Click Save, your file will appear in the list of uploaded documents

WATER QUALITY COMBINED FINANCIAL ASSISTANCE

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Environmental and Cultural Resources Documentation

Repeat for each file

To Delete a file, select the Delete checkbox next to the file and click SAVE

Description

Attachments

WATER QUALITY COMBINED FINANCIAL ASSISTANCE

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Uploads

Description

Attachments

Parcel Map, Purchase Prioritization & Supporting Data Information

https://ecyeagl/IntelliGrants_BASE/_Upload/186293_884823-ParcelMap,PrioritizationInformation.docx

Letter of Support - Developer/Owner

https://ecyeagl/IntelliGrants_BASE/_Upload/186293_884823_2-LetterofSupport-PropertyOwner.pdf

Letter of Support - Urban Forestry

https://ecyeagl/IntelliGrants_BASE/_Upload/186293_884823_3-LetterofSupport_landacquisition-UrbanForestry.docx

Letter of Support - Watershed Alliance

https://ecyeagl/IntelliGrants_BASE/_Upload/186293_884823_4-BBC_land_acquisition_loi-WatershedAlliance.docx