

WATER QUALITY STORMWATER PRE-CONSTRUCTION GRANTS

Organization: Port Angeles city of - Public Works

WQSWPC-2016-PoAnPW-00014

General Information

Project Title	16th Street LID Retrofit	
Project ShortDescription	Permeable pavement and natural dispersion techniques will be designed on 16th Street to improve water quality of urban runoff into Tumwater Creek, a 303 (d) listed water body for bacteria.	
Project LongDescription		
Total Cost	\$160,000.00*	Total Eligible Cost \$160,000.00*
Effective Date	7/1/2015	Expiration Date 3/31/2017
Project Category*	✓ Stormwater Green Retrofit Pre-Construction Planning and Design1	
Will Environmental Monitoring Data be collected?No		
Ecology Program	Water Quality	
Overall Goal	The goal of this project is to improve the long term health of Tumwater Creek by reducing the pollutants that drain into it. Stormwater from 16th Street currently flows through the City municipal separate storm drain system untreated into Tumwater Creek. Utilizing LID techniques will use the natural processes of filtration and infiltration to reduce pollutants and flow to Tumwater Creek.	

Recipient Contacts

Project Manager

Jonathan Boehme
 Jonathan Boehme
 Project Manager
 321 E Fifth Street
 Port Angeles, Washington 98362
 (360) 417-4811

jboehme@cityofpa.us

Authorized Signatory

Daniel McKeen
 Daniel McKeen
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Billing Contact

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 Jonathan Boehme
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Other recipient signatures on printed agreement

To Add a Row

Enter a name and title
 When done, click the **SAVE** button
 After SAVE, a new row will appear

To Delete a Row

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

Recipient Contacts

Name

Title

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Location Information

Statewide * Yes No

Ecology Region * Southwest 100%
Click here to view map:

County * CLALLAM 100%
Click here to view map:

Congressional District * District 03 100%
Click here to view map:

Legislative District * District 20 100%
Click here to view map:

WRIA * 18 - Elwha-Dungeness 100%
Click here to view map:

Ecology Region Statewide 100%

County Statewide 100%

Congressional District Statewide 100%

Legislative District Statewide 100%

WRIA Statewide 100%

Latitude (expressed in decimals) 48.1157964

Longitude (expressed in decimals) -123.4693971

Facility Site ID

Facility Site Link

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Scope of Work - Task 1 Project Admin: 1

Task Number	1		
Task Title	Project Administration/Management	Task Cost	\$5,000.00
Task Description	<p>A. The RECIPIENT will administer the project. Responsibilities will include, but not be limited to: maintenance of project records; submittal of requests for reimbursement and corresponding backup documentation, progress reports and recipient closeout report (including photos); 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.</p> <p>B. The RECIPIENT must manage the project. Efforts will include: 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 must carry out this project in accordance with any completion dates outlined in this agreement.</p>		
Task Goal Statement	Properly managed project that meets agreement and Ecology administrative requirements.		
Task Expected Outcomes	<ul style="list-style-type: none"> * Timely and complete submittal of requests for reimbursement, quarterly progress reports and recipient closeout report. * Properly maintained project documentation 		
Recipient Task Coordinator			

Deliverable #	Description	Due Date	Received?	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
1.1	Progress Reports		(ECY Use Only)					
1.2	Recipient Closeout Report							
1.3	Project Outcome Summary Report							

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Scope of Work - Additional Tasks: 2 - Design Plans and Specifications, Geotechnical

Task Number	2		
Task Title	Design Plans and Specifications, Geotechnical	Task Cost	\$155,000.00*
Task Description	<p>A. The RECIPIENT will coordinate the preparation and submittal of State Environmental Policy Act (SEPA) documentation.</p> <p>B. The RECIPIENT will be responsible for application for, receipt of, and compliance with all required permits, licenses, easements, or property rights necessary for the project.</p> <p>C. Prior to any ground disturbing activities (including geotechnical investigations); the RECIPIENT will submit a DAHP EZ-1 form to the DEPARTMENT's Project Manager to initiate review of project activities by DAHP and tribal governments.</p> <p>If Cultural Resources Review (Executive Order 05-05) has been completed by RECIPIENT, submit any supplemental cultural resources documentation with a DAHP EZ-1 form to the DEPARTMENT's Project Manager.</p> <p>D. At its discretion, ECOLOGY may require the RECIPIENT to submit 60 % complete design plans for review.</p> <p>E. Based on receipt of the Ecology Design report or the 60 % complete design plans, ECOLOGY will provide comments to the RECIPIENT within 45 calendar days of receipt of the plans. The RECIPIENT agrees to respond to the ECOLOGY's comments prior to project construction.</p> <p>F. Prior to advertising for contractor bids, the RECIPIENT will submit two hard copies and one digital copy of 90 % plans and specifications to the ECOLOGY's Project Manager for review. The plans must include ECOLOGY's Bid Specification Clauses inserts found at: http://www.ecy.wa.gov/programs/wq/funding/GrantLoanMgmtDocs/Eng/GrantLoanMgmtEngRes.html ECOLOGY will provide comments to the RECIPIENT within 45 calendar days of receipt of the plans.</p> <p>G. The plans, specifications, construction contract documents, and addenda must be approved by the RECIPIENT prior to submittal to ECOLOGY.</p> <p>H. The RECIPIENT will submit to ECOLOGY a current, updated construction cost estimate and project schedule, along with each plans and specifications submittal.</p> <p>I. The RECIPIENT will submit all construction plans to ECOLOGY, reduced to 11 x 17 in size. The RECIPIENT may bind them with the specifications or related construction contract documents or bound as a separate document. All reduced drawings must be legible.</p>		
Task Goal Statement	The goal of the Design Plans and Specifications, Geotechnical task is to develop the design for the		

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Scope of Work - Additional Tasks: 2 - Design Plans and Specifications, Geotechnical

preferred alternative. Design tasks will also include a site survey and geotechnical investigation.

Task Expected Outcomes

The expected outcome of the Design Plans and Specifications, Geotechnical task is to develop 60%, 90%, and 100% design plans, specifications, and an engineer's estimate of cost for the preferred alternative. This task will also include preparing an EZ-1 form, relevant SEPA documentation, and a project schedule.

Recipient Task Coordinator

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

Delete data entered in a row
When done, click the SAVE button

Deliverable #	Description	Due Date	Received? (ECY Use Only)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
2.1	Submit the design consultant contract to the DEPARTMENT if a consultant is used.	11/2/2015						
2.2	Submit plans and specifications to the DEPARTMENT for review at the 30%, 60%, and 90% design-review stages.	7/4/2016						
2.3	Submit a project schedule and cost estimate to the	12/14/2015						

DEPARTMENT for review and keep the DEPARTMENT updated on any significant changes to the project schedule and/or costs.

2.4

Keep the DEPARTMENT apprised of permitting status.

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Scope of Work Summary

Task Title	Task Cost
Project Administration/Management	\$5,000.00
Design Plans and Specifications, Geotechnical	\$155,000.00
	\$160,000.00

Total Eligible Costs

(from the General Information Form)

\$160,000.00

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Additional Funding Information

Grant Amount Requested \$160,000\$160,000.00

Do you have any other funds committed to this project? *

Yes No N/A

Include secured matching funds in the "Secured Funds" table. If you have any questions about what's required for match, please see the current guidelines available for download on the Application Menu.

If yes, provide the following information: *

Secured Funds

Source	Type	Amount Committed
State/Federal agency:		
State/Federal agency:		
State/Federal agency:		
Interlocal contributions:		
Interlocal contributions:		
Local agency:		
In-kind contributions:		
Other:		

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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) Bocaccio rockfish, Short-tailed albatross, and resident killer whale
- Protection of shellfish habitat [Click Here](#)
- National Pollutant Discharge Elimination System (NPDES) permit requirements
- State Waste Discharge Permit
- Other (specify)
- N/A

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

- Dissolved oxygen
- Sediment
- Nitrogen
- Fecal coliform
- Phosphorus
- Temperature
- pH
- Metals
- Toxics
- Other (specify)

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

Enter a Water Body Name and Listing Detail ID
 When done, click the SAVE button
 After SAVE a new row will appear
 Repeat these steps for each Listing Detail ID

To Delete a Row, In the row you want to delete, remove the information in the Water Body Name and Listing Detail
 When done, click the SAVE button.
 After SAVE the row will be deleted

Water Body Name	Listing Detail ID	Map Link
Tumwayer Creek	21484	Link

Are you addressing a TMDL? * Yes

- No
- If Yes, List the TMDL(s) your project is addressing

To select multiple TMDLs, hold down the control key

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Water Body and Water Quality Needs Addressed

as you select

To deselect a TMDL, hold down the control key as you select

TMDL Name

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

To add a HUC code

To delete a HUC code

Enter the HUC code and Percentage and Save

Remove the HUC code and percentage and Save

A blank row will appear

The row will be removed

Repeat for each HUC code

HUC Code *	Percentage *
101700002004	100%
	100

Project Description

*

Name the water body or bodies that will be improved by the implementation of the proposed project.

To add a water body

To remove a water body

Enter a water body's name

Remove the water body's name and Save

Click Save, a blank row will appear

The row will be removed

Repeat for each water body

Tumwater Creek

Port Angeles Harbor

*

Describe the project area. Include the land use and describe how the drainage area connects to the water body named above.

16th Street is the main road to the City Solid Waste Transfer station and Airport industrial area. Geotechnical investigation work will study LID feasibility between L Street and C Street. This road sees high traffic volumes and currently has no flow control or treatment facilities installed. 16th Street drains through a series of catch basins and storm lines toward the east into Tumwater Creek.

*

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 BMPs, and how the project connects to the water body named above.

Project Description

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.

To add a map

To delete a map

Enter a description for the file

Remove the file's description, select the Delete checkbox next to the file and click Save

Click the browse button and select your file

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

Repeat for each file.

Description*

Map Attachment*

Vicinity Map

_Upload/22033-16thstreetgrantvicinitymap.pdf

Project Map

_Upload/22033_2-16thLIDRetrofitCityofPortAngelesmap.pdf

List and discuss the BMPs that are under consideration.

This discussion should address:

1) The relationship between the pollutants of concern for

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Project Description

the water body, the land use of the area you are treating, and the BMP.

2) The appropriateness of the BMP for the site conditions (space available, soils, safety, etc.).

3) Relative (high, medium, low) long term cost to maintain the BMP.

The pollutants in this stormwater runoff include fecal coliform bacteria , oils, sediment, herbicides, and pesticides which will be managed through infiltration. Permeable pavement and natural dispersion BMPs will utilize their infiltration benefits to lower peak flows and pollutant levels entering Tumwater Creek . LID is well suited for this site, soils generally are more permeable on this side of town, plus the permeable pavement BMP in particular will enable stormwater to directly enter an LID facility along the full length of road and not point load or concentrate runoff in one location .

A Maintenance schedule will be developed and managed in the City asset management software, CityWorks. The pervious pavement BMP will be vacuum swept semi-annually, receive annual inspections and overall has a relatively low maintenance cost.

Based on the current knowledge of the project area, discuss specific challenges that may be encountered while designing and implementing the proposed project.

Port Angeles sites on large areas of till and clay soils. Geotechnical investigation

*

Project Description

will be a vital element of this project. This investigation will search throughout the project area for the best locations to site LID BMPs.

When will this project be constructed and what is the plan for financing the construction?

This project is a priority and is on the City's Capital Facilities Plan (Project TR0715) but requires funding support. The City will apply for construction funding from Ecology for this project in fall of 2016 with a goal of construction in 2017.

Upload the schedule for the planning project. Include key milestones and assume Ecology will require a 45 day review period for the design report and 90% design package.

To add a schedule

To delete a schedule

Enter a description for the file

Remove the file's description, select the Delete checkbox next to the file and click Save

Click the browse button and select your file

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

Repeat for each file.

Description*

Schedule Attachment*

Schedule

_Upload/22033-PreliminaryPreConstructionSchedule.pdf

Describe any tasks that have been completed or will be

Project Description

**completed prior to July 1,
2015.**

None