

Semi-Annual Progress Report

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**General Information**

Contract / Grant Agreement Number: IAA No. C2200016  
 Project Title: **Ditch maintenance and redesign for improved stormwater management**

Contract Period: July 1, 2021 to September 30, 2024

Organization: Washington State University

Project Manager: Anand Jayakaran

Reporting Period: July 1, 2021 to December 30, 2021

Date this Form was Completed March 24, 2022

**Brief description of Tasks and Deliverable Achievements for current report period.**

**Task 1: Project Management**

Percent of Task Completed:	5%				
All deliverables to be completed:	Deliverables 1.1 to 1.5: Semi Annual reports #s 1 to 5				
Deliverables completed in <b>previous</b> reporting periods:	none to report				
Deliverables completed in <b>this</b> reporting period:	Deliverable 1.1 (this report)				
Description of Achievements:	1. A technical advisory committee (TAC) of 6 members was formed in September 2021.				
Challenges faced:	none to report				

**Task 2: Planning and Quality Assurance Project Plan (QAPP)**

Percent of Task Completed:	0%				
All deliverables to be completed:	Deliverables 2.1 and 2.2: Draft and final QAPP				
Deliverables completed in <b>previous</b> reporting periods:	none to report				
Deliverables completed in <b>this</b> reporting period:	none				
Description of Achievements:					
Challenges faced:	site for water quality and water quantity work (tasks 3 & 5) still not identified				

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<b>Task 3: Site instrumentation</b>					
Percent of Task Completed:	0%				
All deliverables to be completed:	<b>Deliverable 3.1:</b> Memo of completed instrumentation				
Deliverables completed in <b>previous</b> reporting periods:	none				
Deliverables completed in <b>this</b> reporting period:	none				
Description of Achievements:					
Challenges faced:	Site is flooded and new site is being sought				

<b>Task 4: Evaluating alternative planting palettes</b>					
Percent of Task Completed:	25%				
All deliverables to be completed:	<b>Deliverable 4.1:</b> Draft report of analysis with a presentation shared at				
Deliverables completed in <b>previous</b> reporting periods:	none to report				
Deliverables completed in <b>this</b> reporting period:	none				
Description of Achievements:	Measurements of maintenance and survival is ongoing: Establishment				
Challenges faced:	Weed encroachment of like grass species is making blind ratings difficult and will no longer be possible.				

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<b>Task 5: Quantifying effects ditch maintenance and retrofit on water quality and quantity</b>	
Percent of Task Completed:	0%
All deliverables to be completed:	<b>Deliverable 5.1:</b> Raw data collected to date (six months) with semi-
Deliverables completed in <b>previous</b> reporting periods:	none
Deliverables completed in <b>this</b> reporting period:	none to report
Description of Achievements:	We are actively seeking an alternative site for instrumentation and water quality analyses
Challenges faced:	The site originally chosen in the City of Tacoma has experienced downstream blockages that prevent it from draining. There is now standing water at the site at all times. While the site is fine for the vegetation study (Task 4), it is not for this task.

<b>Task 6: Communication of Findings</b>	
Percent of Task Completed:	0%
All deliverables to be completed:	<b>Deliverable 6.1:</b> Draft report of the whole study
Deliverables completed in <b>previous</b> reporting periods:	none
Deliverables completed in <b>this</b> reporting period:	none to report
Description of Achievements:	none to report
Challenges faced:	none to report