

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: **January 1, 2022 to December 31, 2022**

Date this Form was Completed March 6, 2023

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

Task 1: Project Management

Percent of Task Completed:	50%				
All deliverables to be completed:	Deliverables 1.1 to 1.5: Semi Annual reports #s 1 to 5				
Deliverables completed in previous reporting periods:	Del 1.1				
Deliverables completed in this reporting period:	Deliverable 1.2 and 1.3 (this report)				
Description of Achievements:	1. A technical advisory committee (TAC) of 6 members was formed in September 2021. 2. We continued to coordinate with the TAC and local jurisdictions in 2022 in an attempt to find sites to carry out the water quality and water quantity work. 3. Coordination with project partners and SAM coordinator to work through challenges was				
Challenges faced:	none to report				

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

Percent of Task Completed:	100%				
All deliverables to be completed:	Deliverables 2.1 and 2.2: Draft and final QAPP				
Deliverables completed in previous reporting periods:	none to report				
Deliverables completed in this reporting period:	none				

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Description of Achievements:	With the search for water quality and water quantity sites, the QAPP process was halted. However, several sites were identified for the plant work. Deliverable sent in March 2023
Challenges faced:	Site for water quality and water quantity work (task 5) was not identified and ultimately this task was abandoned.

Task 3: Site instrumentation					
Percent of Task Completed:	100%				
All deliverables to be completed:	Deliverable 3.1: Memo of completed instrumentation				
Deliverables completed in previous reporting periods:	none				
Deliverables completed in this reporting period:	none				
Description of Achievements:	Deliverable sent in March 2023				
Challenges faced:	The original site (Fife Ditch) was flooded and new sites were sought. Two additional sites were identified, but neither fit the description for water quality and water quantity work. However, all three sites were suitable for the plant study.				

Task 4: Evaluating alternative planting palettes					
Percent of Task Completed:	50%				
All deliverables to be completed:	Deliverable 4.1: Draft report of analysis with a presentation shared at				
Deliverables completed in previous reporting periods:	none to report				
Deliverables completed in this reporting period:	none				
Description of Achievements:	<p>1. 2021 -Measurements of maintenance and survival is ongoing: Establishment and initial quality ratings have been taken. There are measurable differences between blends on establishment and quality, two more rating sessions are scheduled for this year (2021) to add to the plot data.</p> <p>2. 2022 - Measurements of plant growth and quality have completed at the Fife site including the species inventory. Preliminary analysis shows differences between the performance of the blends. Study at 78th street and at WSU Pullman were established.</p>				
Challenges faced:	<p>2021: Weed encroachment of like grass species is making blind ratings difficult and will no longer be possible.</p> <p>2022: Weed encroachment continues to be an issue at the Fife site. Initial establishment ratings in Fall of 2022 at WSU Pullman were not taken due to winter storms. Initial establishment ratings at that site will have to take place in the Spring of 2023 instead.</p>				

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Task 5: Quantifying effects ditch maintenance and retrofit on water quality and quantity			
Percent of Task Completed:	0% Task has been abandoned		
All deliverables to be completed:	Deliverable 5.1: Raw data collected to date (six months) with semi-		
Deliverables completed in previous reporting periods:	none		
Deliverables completed in this reporting period:	none to report		
Description of Achievements:	The search for alternative sites has been abandoned and this entire task has been eliminated from this project's scope.		
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. In this reporting period, it was decided that this task will be abandoned going forward		

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