

Semi-Annual Progress Report

Send progress report to: Chelsea Morris
 Department of Ecology
 PO Box 47600
 Olympia, WA 98504-7600

General Information

Contract / Grant Agreement Number: IAA No. C2200192

Project Title: **The effects of mulch on stormwater treatment and maintenance effort in bioretention systems**

Organization: Washington Department of Natural Resources

Project Manager: Abby Barnes

Reporting Period: **October 1, 2022 to March 31, 2023**

Date this Form was Completed May 9, 2023

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

Task 1: Phase I Factsheet development

Percent of Task Completed:	100%					
All deliverables to be completed:	Deliverables 1.1					
Deliverables completed in previous	none to report					
Deliverables completed in this reporting period:	Deliverable 1.1					
Description of Achievements:	Factsheet was completed, submitted and approved					
Challenges faced:	none to report					

Task 2: Project Management

Percent of Task Completed:	30%					
All deliverables to be completed:	Deliverables 2.1 to 2.3: Semi Annual reports #s 1 to 4					
Deliverables completed in previous reporting periods:	none to report					
Deliverables completed in this reporting period:	Deliverable 2.1 (this report)					
Description of Achievements:	1. A technical advisory committee (TAC) of 3 members was formed in					
Challenges faced:	none to report					

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Task 3: Quality Assurance and Project Protocol (QAPP) development				
Percent of Task Completed:	100%			
All deliverables to be completed:	Deliverable 3.1 & 3.2: Draft and final QAPP			
Deliverables completed in previous reporting periods:	none			
Deliverables completed in this reporting period:	Deliverable 3.1: Draft QAPP			
	Deliverable 3.2: Final QAPP			
Description of Achievements:	Project QAPP was completed, sent to the TAC for their approval, revised, and approved by SAM Coordinator			
Challenges faced:	none to report			

Task 4: Instrument Installation and Monitoring				
Percent of Task Completed:	100%			
All deliverables to be completed:	Deliverable 4.1: Memo of completed instrumentation			
Deliverables completed in previous reporting periods:	none			
Deliverables completed in this reporting period:	Deliverable 4.1: Memo of completed instrumentation			
Description of Achievements:	<ol style="list-style-type: none"> 1. Trees instrumented with static sapflux monitoring systems. 2. Soil moisture sensors were installed at sites 1 and 2 3. Throughfall interception gages installed under six tree canopies. 4. Mobile sap flux sensors and mobile soil moisture gages were successfully prototyped and installed. 5. Weather stations installed, tested, and functional. 6. Instrumentation memo was written. 			
Challenges faced:				

Task 5: Instrument Maintenance and Data Downloads				
Percent of Task Completed:	3%			
All deliverables to be completed:	none			
Deliverables completed in previous reporting periods:				
Deliverables completed in this reporting period:	none			
Description of Achievements:	Initial deployments and data downloads have begun			

Challenges faced:

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Task 6: Data Analysis, Process and Submittal						
Percent of Task Completed:	0%					
All deliverables to be completed:	Deliverable 6.1: Copy of data in Excel format					
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					

Task 7: Final Tree Study Phase II Report						
Percent of Task Completed:	0%					
All deliverables to be completed:	Deliverable 7.1: Draft report of the whole study Deliverable 7.2: Final Report					
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					

Task 8: Outreach and Communication						
Percent of Task Completed:	0%					
All deliverables to be completed:	Deliverable 8.1: Presentation to the Stormwater Work Group Deliverable 8.2: Draft fact sheet per SAM format					
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					