



January 25, 2022

To: Keunyea Song, SAM coordinator
Washington State Department of Ecology, Olympia, WA

From: Marlena Milosevich
Natural Resource Specialist III, Clark County Public Works, Vancouver, WA

Subject: Deliverable D1.4: Semi-annual progress report

1. General Information

Contract Agreement Number:	C2000179
Project Title:	Status and Trends Monitoring of Urban Streams in Clark and Cowlitz Counties in the Lower Columbia River Region (LCUS)
Organization:	Clark County Public Works Clean Water Division (CWD)
CWD Project Manager:	Chad Hoxeng, CWD Natural Resource Specialist III
Ecology Project Manager:	Keunyea Song, Stormwater Action Monitoring (SAM) Scientist
Reporting Period:	2021 Q3 and Q4 (July through December)
Date Form was Completed:	25JAN2022

2. Task Achievements (This reporting period)

Task 1: Project Management

Percent of Task Completed:	13% this period (38% Cumulative Completed) \$5,456 of budget used (\$19,910 of \$32,328.00 of budget used total)
Deliverable:	D1.3: Semi-annual progress report
Achievements:	The 2021 Q1 and Q2 D1.3: semi-annual progress report with target date July 31, 2021, was submitted to and accepted by Ecology. The project and budget were managed. Field, laboratory, and reporting tasks were coordinated.



Task 2: Station Set Up

Percent of Task Completed:	20% this period (80% Cumulative Completed) \$6,809 of budget used (\$82,039 of \$109,096.00 budget used total)
Deliverable:	D2.4: Confirmation email for equipment installation at three status monitoring stations; target September 30, 2021
Achievements:	D2.4: Confirmation email for equipment installation at three status monitoring stations was submitted to and accepted by Ecology. Three status sites are installed and collecting data for WY2022.

Task 3: Continuous Datalogger Operation and Field Data Collection

Percent of Task Completed:	33% \$42,315 of budget used (\$72,857 of \$191,402 budget used total)
Deliverable:	D3.1: Email for monitoring completeness WY2021, confirming submission of the data collection event (DCE) file for each site compiled by the WHM e-forms and all required data and sample collection
Achievements:	D3.1: Email for monitoring completeness WY2021, confirming submission of the data collection event (DCE) file for each site compiled by the WHM e-forms and all required data and sample collection was submitted to Ecology. A total of eight e-forms were sent to Ecology. This deliverable was also met by operating and maintaining continuous monitoring equipment and performing field data collection per the Ecology-approved LCUS QAPP. Please see 3. Challenges and Issues for more information.

Task 4: Data Management

Percent of Task Completed:	2.7% (32% Cumulative Completed of D4.1; 6.4% Cumulative Completed for Task 4) \$7,802 of budget used (\$19,848 of \$63,721 budget used)
Deliverable:	D4.1.5: Upload continuous data to Aquarius, and send an excel file with graphs to the Ecology project manager (Data through July 2021) D4.1.6: Upload continuous data to Aquarius, and send an excel file with graphs to the Ecology project manager (Data through September 2021) D4.1.7: Upload continuous data to Aquarius, and send an excel file with graphs to the Ecology project manager (Data October 1 st 2021 through November).
Achievements:	On target to meet deliverable by performing data management and submittal per the Ecology-approved QAPP. D4.1.5, D4.1.6, and D4.1.7 (Three of 22 targeted bi-monthly, seven cumulative) excel files with graphs have been completed and accepted by Ecology.

Task 5: Data Analysis and Annual Reporting

Percent of Task Completed:	14% \$3,395 of budget used (\$3,684 of \$73,131 budget used)
Deliverable:	D5.1: Flow metrics calculation from continuous data for each site up to date
Achievements:	Deliverable D5.1 was submitted to and approved by Ecology.

3. Challenges and Issues

There were a few challenges accomplishing Task 3: field data collection. Throughout the six-month time period (July through December 2021), coordinating field work during Covid-19 and making sure county staff can conduct work activity efficiently and safely has been a continuous challenge. There were also a few issues at status sites due to weather events or sensor malfunction.

Issues arose for continuous conductivity data at status site MOR010. From 7/27/2021 through 9/27/2021 conductivity data is missing. The reason for the missing data is unknown and Clean Water staff is still investigating. During the July maintenance visit all field SOPs were followed. It is possible the datalogger failed to redeploy after data download during the maintenance visit or a corrupt data file.

4. General Comments

Project is on task to meet IAA deliverables.