



Stormwater Action Monitoring Quarterly Report January 1 through March 31, 2024

SAM accomplishments and key decisions reported for the quarter

- Amend City of Olympia’s Hydraulic Condition of Old Bioretention Facilities study to extend the timeframe
- Amend City of Bellevue’s BMP Maintenance review study to extend the timeframe

SAM budget for the previous quarter and anticipated in the next quarter

Table 1 shows the SAM budget for each account. Revenue is expected in August each year from 2020 thru 2024. The Stormwater Work Group’s Pooled Resources Oversight Committee (PRO-C) approves encumbrance of SAM funds. Encumbrances in excess of projected revenues are due to projects that span multiple years. Indirect charges are applied quarterly to the individual accounts while SAM management staff costs are applied proportionally at the end of each fiscal year.

Table 1. Quarterly summary of revenues, expenditures, encumbrances, and available funds for each SAM account.

Edits correct a spreadsheet error made after data was exported from fiscal database (C. Morris)

| Reported and projected income and expenditures | Puget Sound status and trends Jan-Mar 2024 | Lower Columbia status and trends Jan-Mar 2024 | Effectiveness studies Jan-Mar 2024 | Source ID projects Jan-Mar 2024 | Admin Costs (Ecology’s expenses) Jan-Mar 2024 | Total (not including admin Costs) Jan-Mar 2024 |
|--|---|--|---------------------------------------|------------------------------------|---|--|
| Balance at start of quarter | \$2,494,201 | \$174,336 | \$5,803,610 | \$29,327 | - | \$8,501,474 |
| Revenues | - | - | - | - | - | - |
| Expenditures | \$168,092.78 \$167,246 | \$88,234 | \$356,232 \$383,994 | \$8,304 | \$38,511 \$49,625 | \$659,373 \$647,778 |
| Balance at end of quarter | \$2,326,108 \$ 2,326,955 | \$86,102 | \$5,447,378 \$5,419,616 | \$21,023 | - | \$7,880,612 \$7,853,696 |
| Encumbrances | \$641,469* | \$9,912* | \$1,823,330* | - | - | \$2,474,711* |

*These balances for encumbrances do not include obligations for ‘inside Ecology’ services done by Manchester Environmental Lab and Environmental Assessment Program. A method to better track the encumbrance balance is underway for 2024.

SAM contracting activities

All contract scopes of work are reviewed and approved by the PRO-C and Ecology are posted online. The following contracting activities occurred this quarter:

- The City of Olympia’s contract was amended to extend the timeframe 6 months to complete work.
- The City of Bellevue’s contract was amended to extend the timeframe 10 months to complete work.
- No new contracts were started this quarter.
- WSU’s Business Source Control Inspection and Training contract was completed and closed returning \$5,587.35 to SAM’s account.

SAM summary by topic

Communications

Routine deliverable and contracting updates to SAM website.

Receiving water projects

SAM monitors the impacts of stormwater runoff in urban and urbanizing areas in the Western Washington small streams and nearshore environments. There are two active stormwater receiving water monitoring in Puget Sound region and one in Lower Columbia region. Key updates:

- The USGS and Clark County led the collection of samples from Puget Sound and Lower Columbia streams last summer. Samples have been analyzed and data is loaded to EIM. Data await review by Ecology's Data Coordinator.
- Puget Sound mussel monitoring retrieved caged mussels in March. There was 2-3 week delay, but it is not expected to impact the results significantly. In February, WDFW paused all volunteer activities to review and update their on-and-around-water safety procedures.

Effectiveness studies

SAM studies determine the effectiveness of operational or structural BMPs, maintenance and management actions, and outreach efforts to reduce stormwater runoff and transport of pollutants to receiving waters. There are 6 active effectiveness studies at the end of this quarter. Milestones for several projects include:

- The project team on Hydraulic Condition of Old Bioretention Facilities presented results from their geotechnical assessment, vegetation survey, and maintenance interviews at regional stormwater manager meetings. The final report will be completed next quarter. The team will present their results at the May Stormwater Work Group meeting.
- WSU's final report on Improving Ditches and Maintenance reviewed various grass blends to determine plant establishment and growth when planted in three cleaned out ditches under varying degrees of shade, water stress, and season. The team will present their results at the May Stormwater Work Group meeting.

Source Identification Projects

SAM projects on source control and source identification will improve illicit discharge detection and adapt our management solutions for pollutant sources in stormwater runoff.

- The Mobile Business project finalized their outreach materials for pressure washing, commercial landscaping, and mobile auto repair businesses. The project will be completed next quarter.
- The Mobile Business project is expected to spend the remainder of the balance in the Source Identification account. Future source identification projects will be funded from the joint effectiveness and source identification study account.

SAM contract deliverable activity

Table 2: SAM's contracts, end dates, and deliverable activity.

| Receiving water agreements | Deliverables approved Q1 2024 | Anticipated deliverables Q2 2024 |
|--|--|--|
| Marine mussels – WDFW | Lab data from 2020/21, 2023/24 retrieval confirmation | Draft and Final Reports for 2020/21, Fact sheet for 2020-21 |
| Puget small streams – USGS, Manchester lab, Rhithron lab | None received. | Data upload for 2022 and 2023. Final 2020, 2021, 2022 reports. |
| Lower Columbia urban streams -Clark County | Semi-annual progress report, Bi-monthly continuous stage data. | Bi-monthly continuous stage data, Data upload for 2023, Draft and final report for 2023. |
| Source ID Contracts | Deliverables approved Q1 2024 | Anticipated deliverables Q2 2024 |
| Mobile business source control – King Co (June 2024) | Quarterly report, final report on pilot outreach program and SWG presentation. | Draft and final best practices guidance document second presentation, and project completed. |
| Effectiveness study contracts | Deliverables approved Q1 2024 | Anticipated deliverables Q2 2024 |
| Paired watershed study – City of Redmond (Sept 2025) | WY 2022 data summary report, WY 2023 data complete | WY 2023 data summary report, final project amendment. |
| Longevity of bioretention toxicity prevention - WSU Puyallup (Nov 2024) | Progress report 6 | Draft report with lab data results for WYs 6-12. |
| Hydrologic benefits of individual trees - WDNR (Aug 2024) | None received. | Bi-annual report, Draft and final report, SWG presentation, Draft SAM fact sheet. |
| Improving ditches and maintenance - WSU Puyallup (Sep 2024) | Progress report, final plant findings report. | SWG presentation, Draft SAM fact sheet. |
| BMP maintenance condition - City of Bellevue (Feb 2025) | Project amended. | Final tech memo on existing published findings, Draft and final pilot data analysis. |
| Hydraulic conditions of old bioretention facilities - City of Olympia (Jul 2023) | Technical memos, First Ecology interview. | Second Ecology interview, Final report. |