



Stormwater Action Monitoring Quarterly Report Oct 1 through December 31, 2024

SAM accomplishments and key decisions reported for the quarter

- Our new coordinator and engineer started September 1. Welcome Raghu Namburi!

SAM budget for the previous quarter and available for the next quarter

Table 1 shows the SAM budget for each account. Revenue is expected in August each year, except in years where the municipal stormwater permits are reissued when revenue is expected in December. A new revenue cycle will start in August from 2025 thru 2030 for permits issued in 2024. The Stormwater Work Group's Pooled Resources Oversight Committee (PRO-C) approves encumbrances 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 proportional to the size of the fund at the end of each fiscal year.

Reported and projected income and expenditures	Puget Sound status and trends Oct-Dec 2024	Lower Columbia status and trends Oct-Dec 2024	Effectiveness studies Oct-Dec 2024	Source ID projects Oct-Dec 2024	Total Oct-Dec 2024
Balance at start of quarter	2,016,486	70,143	5,114,524	21,023	7,222,176
Revenues	637,155	123,458	1,264,529	-	2,025,142
Expenditures (Contract costs)	6385.50	-	13,082.71	-	19,468.21
Administrative Costs (Ecology's expenses)	18,570	3519	32,050.7	-	54,139.70
Balance at end of quarter	2,628,686	190082	6,333,920	21,023	9,173,711
Encumbrances	303,506	94,120	2,923,237	-	3,320,863

Note: Total administrative costs are distributed at 34.3% for Puget Sound, 59.2% for Effective Studies and 6.38% for Lower Columbia as per established 2019-2024 distributions.

SAM contracting activities

All contract scopes of work reviewed and approved by the PRO-C and Ecology are posted online. No new contracting activities were completed this quarter.

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 studies in Puget Sound region and one stream monitoring study in Lower Columbia region. Key updates:

- The USGS, Clark County, and WDFW worked with SAM staff to draft new agreements for 5 more years of stream and nearshore monitoring. The new contracts will be signed in early 2025.
- The [final report on the 2021/2022 nearshore monitoring results with caged mussels](#) was published online. With this survey report, WDFW provides information on the status of contamination in the Puget Sound nearshore. The 2021/2022 survey was the first conducted under the [new SAM study design](#).

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 (Table 2). Milestones include but are not limited to:

- The paired watershed retrofit and restoration study began their 10th year of sampling in October! This is an exciting milestone in SAM's longest running study. We expect to see the next summary trend analysis in Spring 2025, followed by the final analysis in Summer 2026. Catch up on the study with the [interim findings published in 2021](#).
- Delays in lab analysis is delaying reporting on the longevity of bioretention to reduce toxicity. WSU will be analyzing and drafting their findings in early 2025.
- Researchers on water budgets of local trees wrapped up analysis of small, individual street trees. They will present the findings to SWG and publish the [final report](#) in February 2025.
- Bellevue is wrapping up data analysis of BMP maintenance records. The findings, expected next quarter, will suggest how permittees might adjust BMP maintenance efforts to maximize overall environmental outcomes to meet permit requirements.
- King County, in collaboration with Whatcom County, developed the [quality assurance project plan](#) for testing the potential for High Performance Bioretention Soil Media (HPBSM) to reduce 6PPD-quinone, PFAS, and aquatic toxicity in stormwater. The first samples for the project were collected in December.
- Tacoma developed a [project plan](#) for the new stormwater characterization effort. We're looking forward to getting this large project off the ground!

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. There are no active source control and source identification projects at this time.

SAM contract deliverable activity

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

Receiving water agreements	Deliverables approved Q4 2024	Anticipated deliverables Q1 2025
Marine mussels – WDFW	Final Reports for 2020/21	New contract to continue monitoring, upload data to EIM, Fact sheet for 2020-21
Puget small streams – USGS, Manchester lab, Rhithron lab	Final sampling list	New contract to continue monitoring, Quarterly Progress Memo, WY 2024 Data Upload to EIM, Final 2021, 2022 reports
Lower Columbia urban streams -Clark County	Draft QAPP addendum, WY 2025 site installation complete	Amendment to continue monitoring, semi-annual progress report, Upload WY 2024 data
Source ID Contracts	Deliverables approved Q4 2024	Anticipated deliverables Q1 2025
No active projects		
Effectiveness study contracts	Deliverables approved Q4 2024	Anticipated deliverables Q1 2025
Paired watershed study – City of Redmond (Sept 2025)	WY2023 draft report	WY2023 final report, Draft Trend analysis report, Street sweeping data, WY2024 data upload
Longevity of bioretention toxicity prevention - WSU Puyallup (Nov 2024)	None received	None expected
Hydrologic benefits of individual trees - WDNR (Dec 2024)	Data, Draft and Final Report	SWG presentation, draft SAM fact sheet, close out project
BMP maintenance condition - City of Bellevue (Feb 2025)	Quarterly progress report	TAC meeting notes, Draft and final pilot data memo, Draft and final white paper, SWG & local presentation, draft SAM fact sheet, close out project
Bioretention effectiveness for 6PPD and PFAS – King County (Nov 2025)	TAC member list, QAPP addendum	Semi-annual progress report
Characterization of Stormwater Transport of CECs – City of Tacoma (Dec 2025)	TAC meeting #1, communication plan & project schedule	TAC meeting #2, Progress report, Existing CEC data database, draft literature review, Draft & final QAPP, GIS Analysis, Equipment purchases, final literature review, Site installation documentation, Internal technical dashboard