

Zekiah Swamp Run nr Newtown, MD (01660920)

Five samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow samples and one peak-flow storm sample, as well as one field blank. This site remains a high priority for sample collection during storm events.

Blacks Run at Rt. 726 at Harrisonburg, VA (01621410)

A total of 13 samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow and eight stormflow samples, as well as one automatic-sampler vs. cross-section-comparison sample collected during low-flow conditions, and one automatic-sampler blank.

Goose Creek nr Leesburg, VA (01644000)

A total of 13 samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow and eight stormflow samples, as well as one automatic-sampler vs. cross-section-comparison sample collected during low-flow conditions, and one automatic-sampler blank. This site remains a high priority for sample collection during storm events.

Potomac River at Shepherdstown, WV (01618000)

Four samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow samples and one field blank. No stormflow samples were collected this quarter.

Sideling Hill Creek nr Bellegrove, MD (01610155)

Five samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow samples, one field blank, and one automatic-sampler blank. No stormflow samples were collected this quarter.

Cacapon River at Great Cacapon, WV (01611500)

Five samples were collected and analyzed for nutrient and suspended-sediment concentrations, including three monthly base-flow samples, one field blank, and one automatic-sampler blank. No stormflow samples were collected this quarter.

2. In order to document potential contamination from the automatic samplers, equipment blanks were collected from each one. Certified inorganic blank water was passed from the sampler intake and pumped through the sampler tubing and into the sampler bottles. The water was poured directly into the sample bottles, preserved, and shipped to the National Water Quality Laboratory.

Results indicate that for the majority of nutrients at the majority of samplers, concentrations were at or below laboratory reporting limits. The only exception occurred at Goose Creek for total and dissolved Kjeldahl nitrogen.

3. Mattawoman Creek remained at zero flow for much of this reporting period, from mid-September to the beginning of December.

Plans for Next Quarter

1. Continue water-quality sample collection. St. Clement Creek and Zekiah Swamp Run in Southern Maryland and Goose Creek in Virginia are priority sites for sample collection during storm events.
2. Collect MDE and CBL samples for selected storms at the four southern Maryland sites.
3. Finalize all water-quality and discharge data for water year 2001 (October 1, 2000 – September 30, 2001).
4. Plot selected water-quality data with discharge and rainfall, which will be available on the project web page.