

South River Mercury TMDL – June 2005

- Monitoring Stations
- Stream Flow
- Water Sampling
- Next Steps Plans



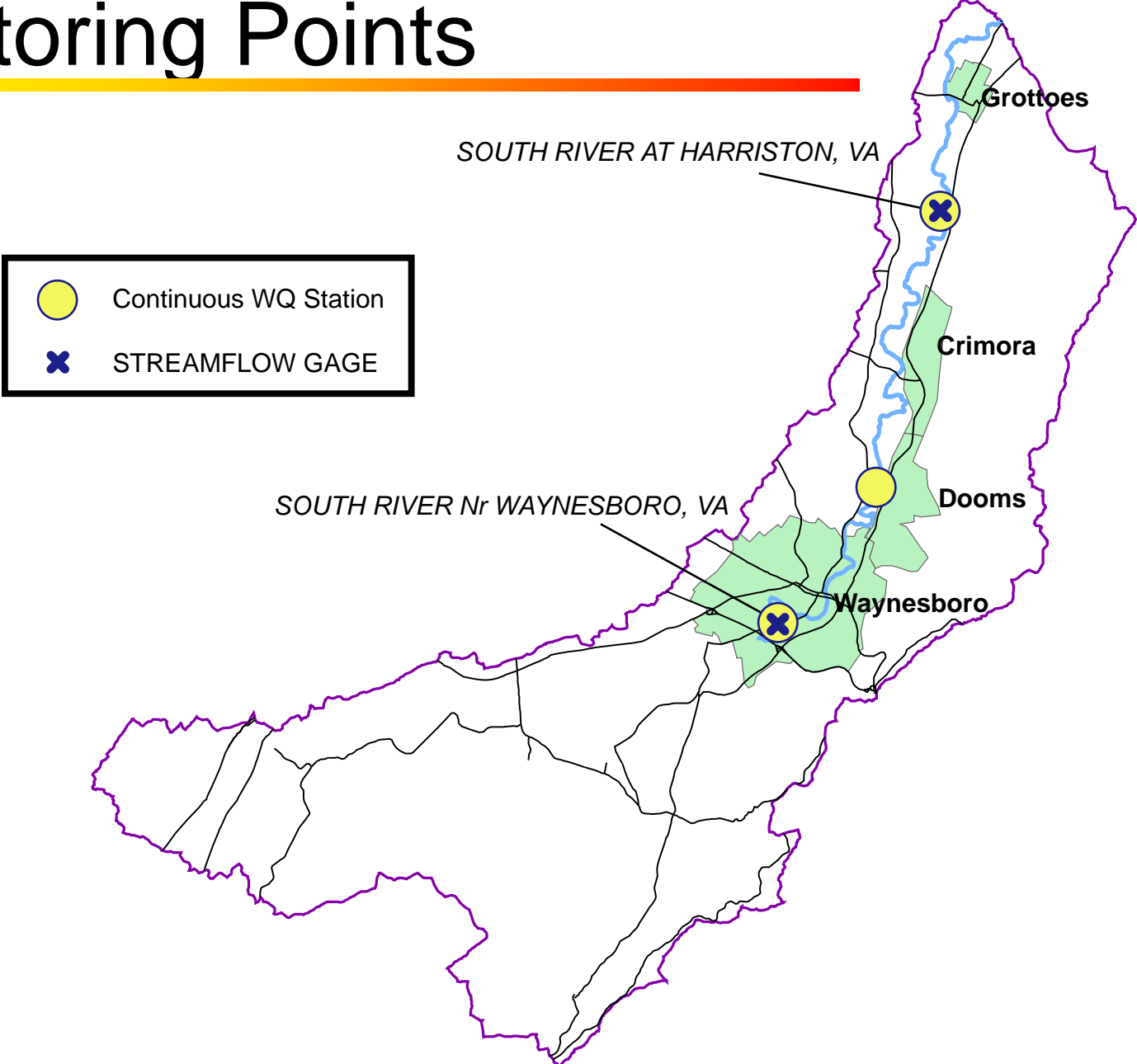
Jack Eggleston



South River Mercury TMDL: Study Goals

- Characterize cycling of total mercury and methyl mercury
- Develop mathematical models for simulating surface water flows and methyl mercury production and transport
- Determine loading reductions needed to achieve fish tissue Hg levels of less than 0.5 ppm

South River Watershed and WQ Monitoring Points



Installation of Monitoring Stations

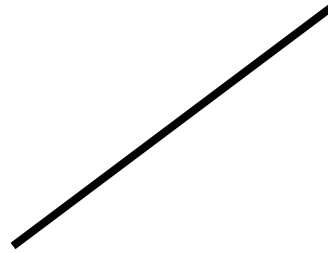
Waynesboro

In Progress



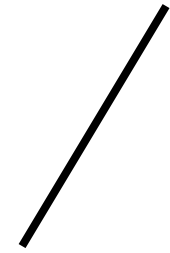
Dooms

Complete



Harriston

Complete



Data on the Web

01626000 SOUTH RIVER NEAR WAYNESBORO, VA

http://waterdata.usgs.gov/nwis/uv?site_no=01626000

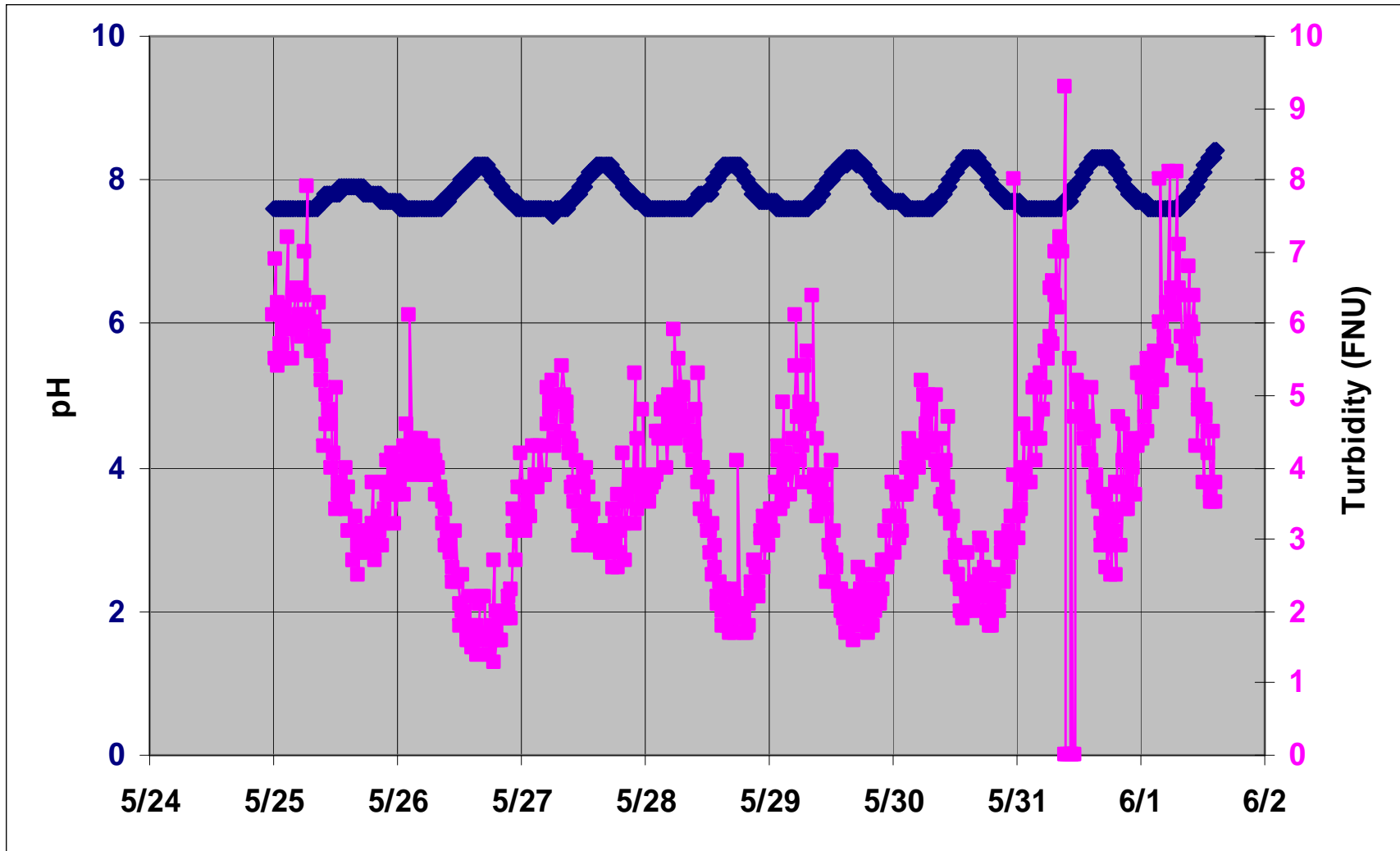
01626920 SOUTH RIVER, OLD RT 611 AT DOOMS, Va.

http://waterdata.usgs.gov/nwis/uv?site_no=01626920

01627500 SOUTH RIVER AT HARRISTON, VA

http://waterdata.usgs.gov/nwis/uv?site_no=01627500

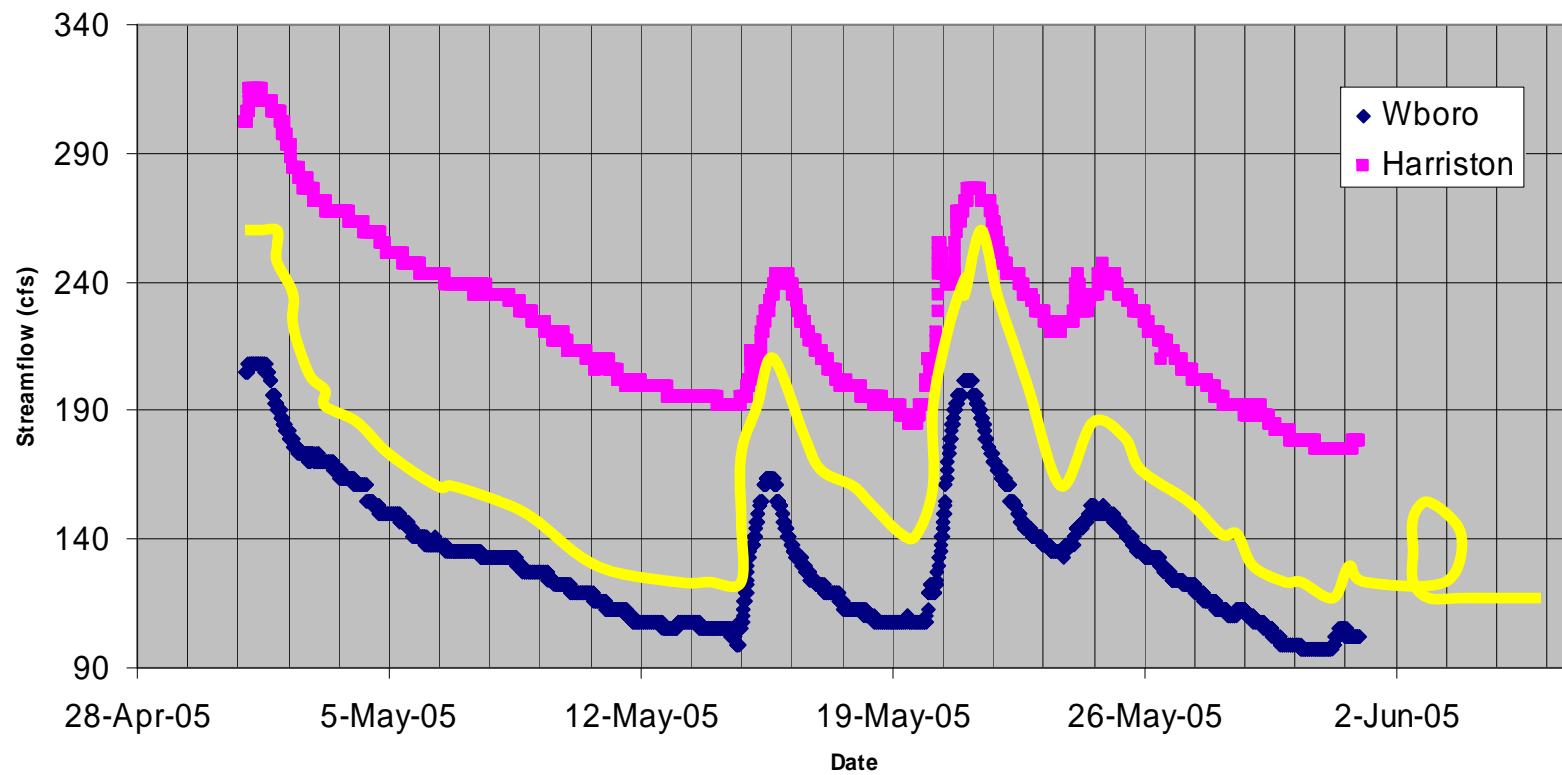
Continuous Monitoring Results - Dooms



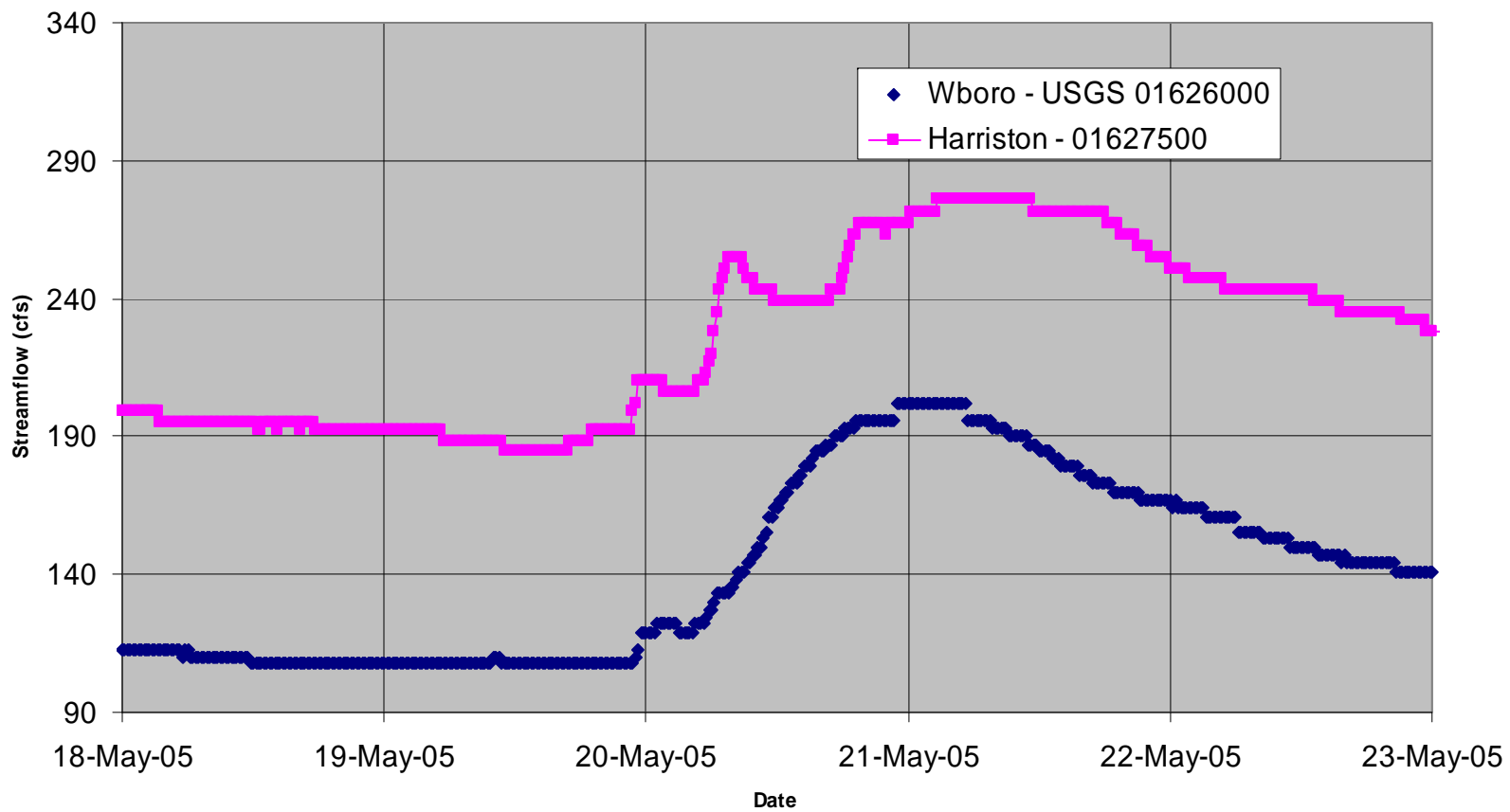
Analysis of Surface Water

- First sampling May 2 (results not back yet)
- Regular sampling on a monthly schedule
- Stormwater sampling when possible
- Hg and MeHg, both filtered and unfiltered will continue to be analyzed for now
- Sulfate, DOC, Chloride, Sediment conc. are also analyzed

South River Flows - Waynesboro and Harriston, May 2005



South River Flows - Waynesboro and Harriston, May 2005



Upcoming Work

- Finish equipment installation at Waynesboro station
- Expand monthly sampling to all stations
- QA/QC on analytical procedures/results
- Finalize data processing steps for continuous QW data
- Start storm sampling