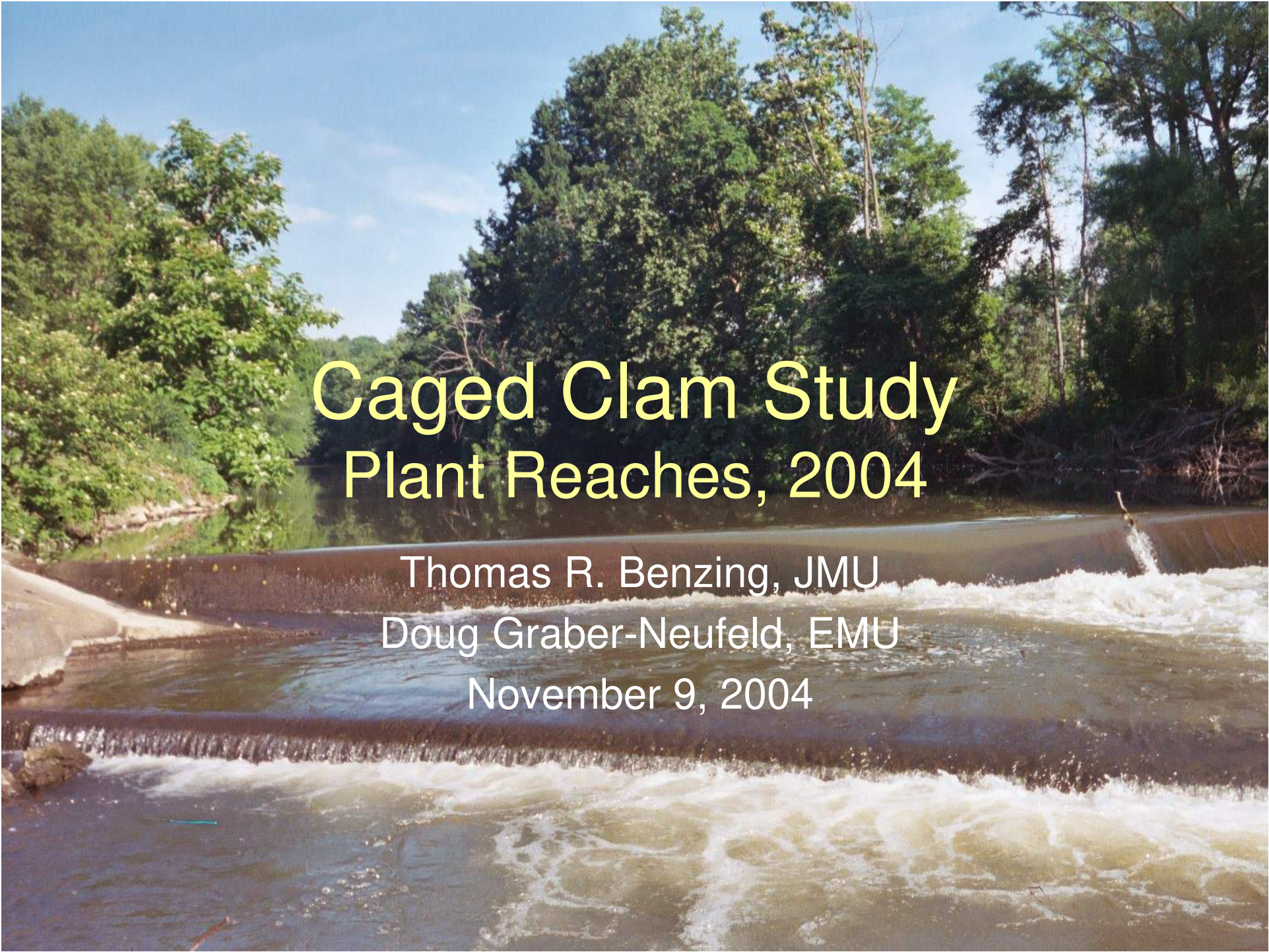
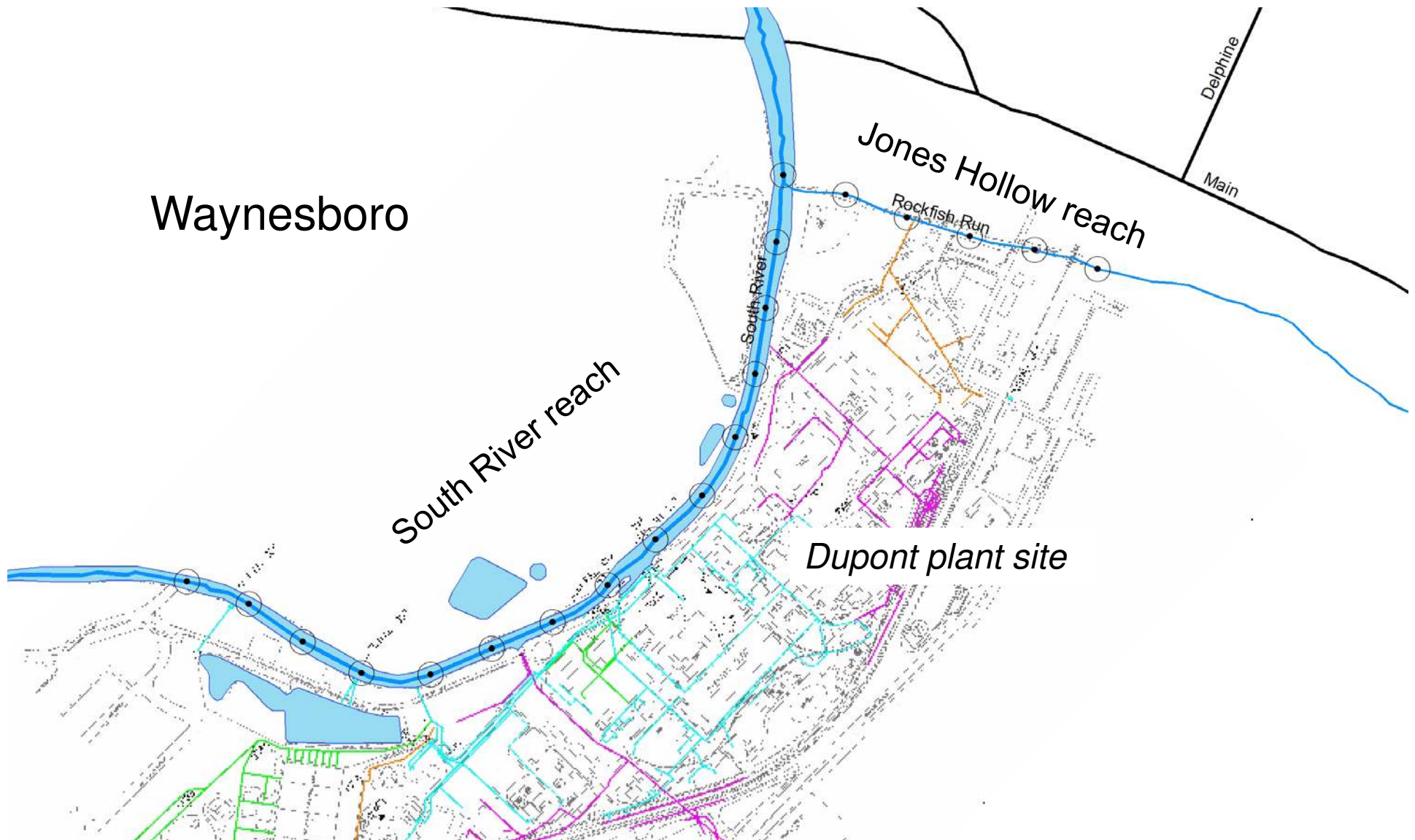




Caged Clam Study Plant Reaches, 2004

Thomas R. Benzing, JMU
Doug Graber-Neufeld, EMU
November 9, 2004

Plant reaches and cage locations



Clams taken from North River

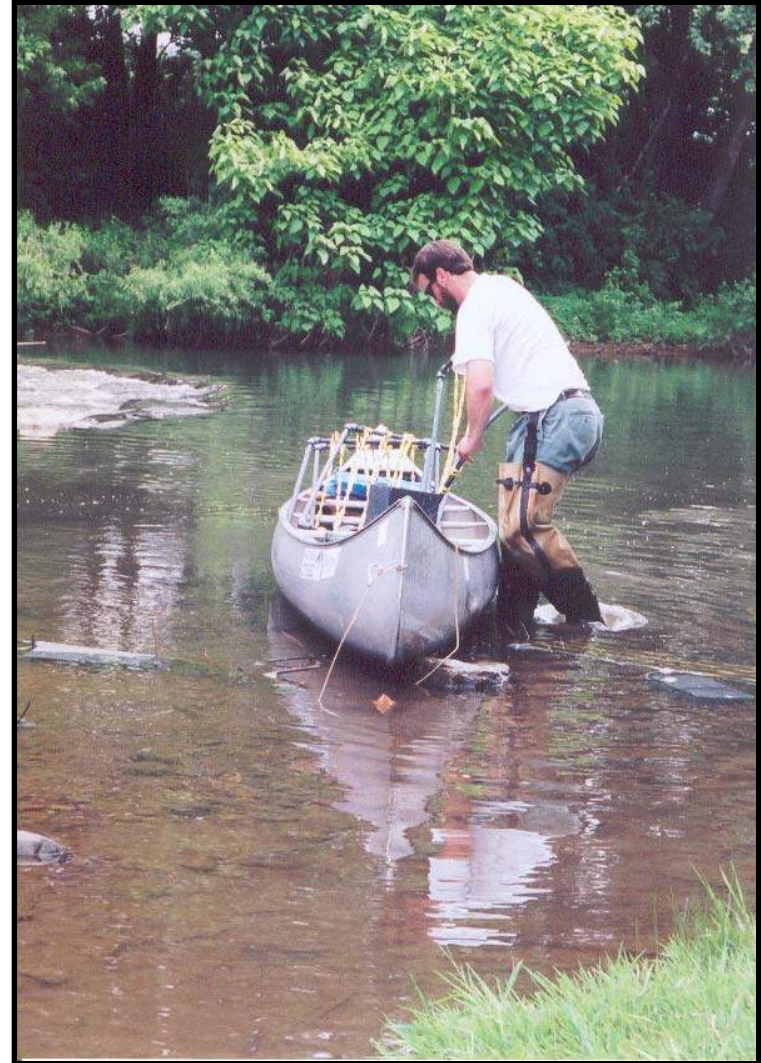


Collecting clams

Sorting clams
by size

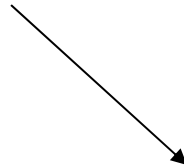


Caging and Canoeing Clams



Placing Clam Cage

May 21-22, 2004



Recording Location
Using GPS



Clam Cages on River Bottom



Clam cage in Jones Hollow (above)

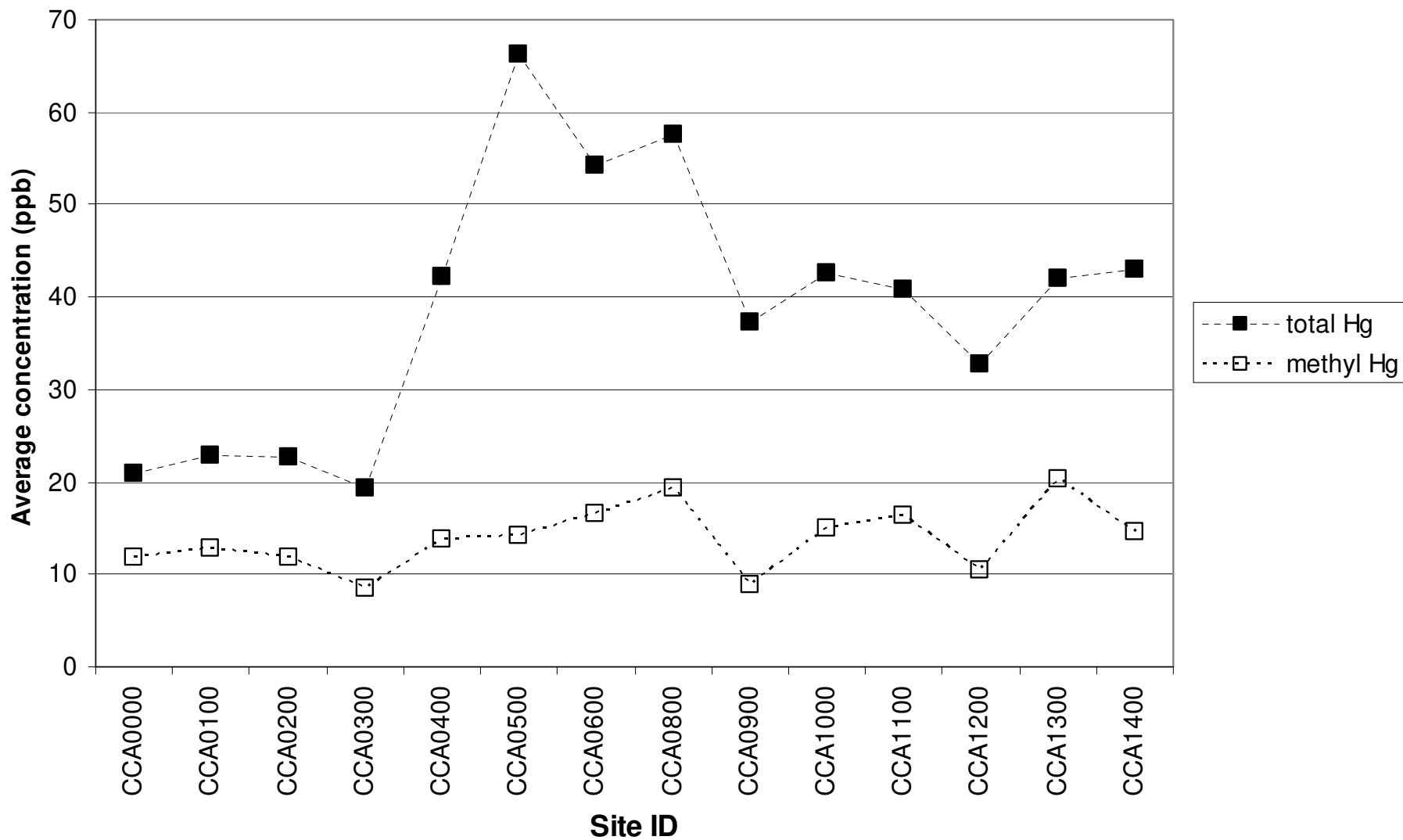
Clam cage in South River (right)



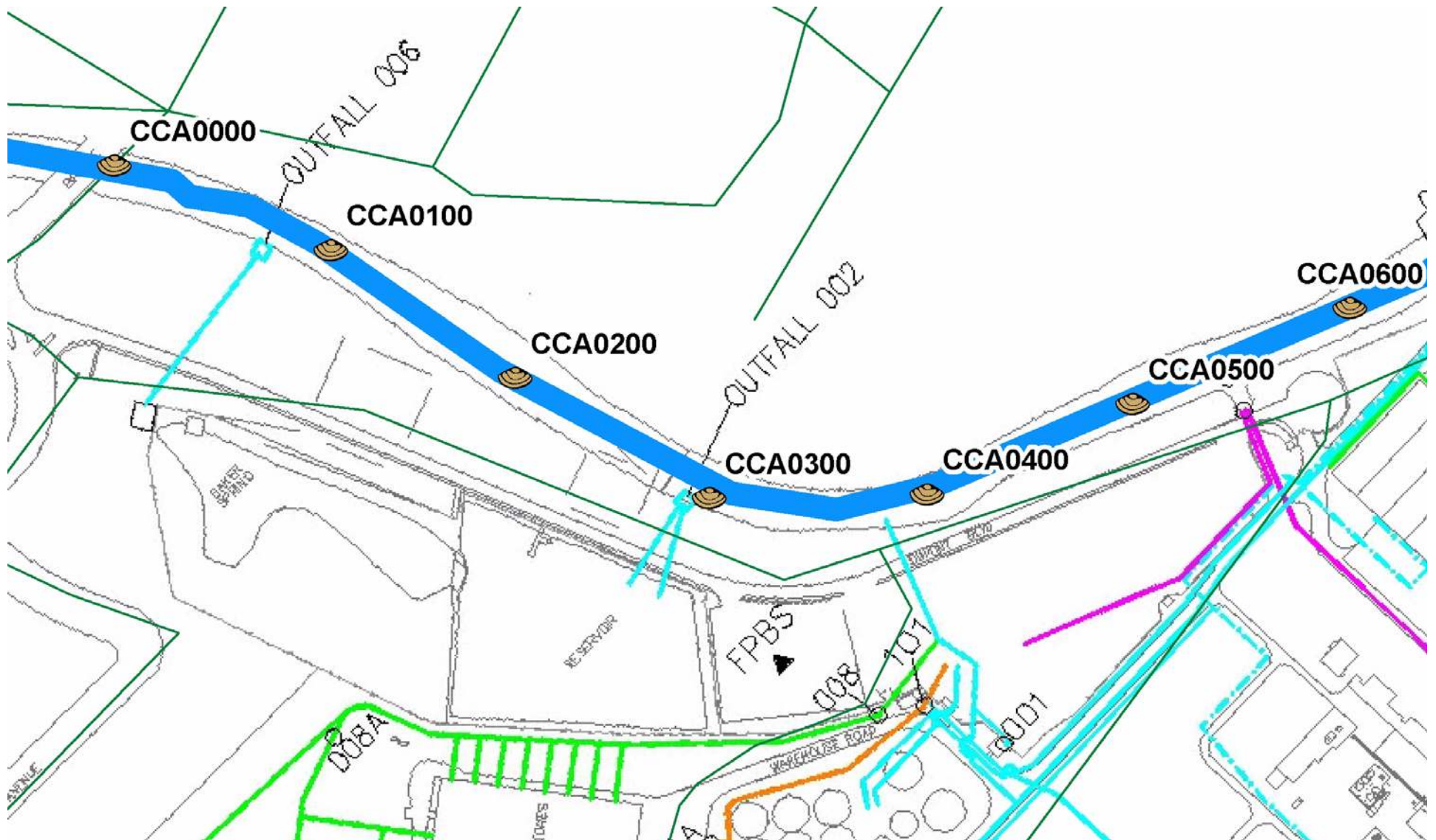
Recovering Cages

- August 28, 2004 (after 99 Days)
- Recovered 19 of 20 cages (95%)
- 80.1% of clams were alive
- Clams purged for 48-72 hours in JMU labs
- Tissue was harvested and frozen on 8/31/2004
- Sent to Studio Geochimica Labs on 9/15/2004

Mercury in South River Clams near Dupont Plant

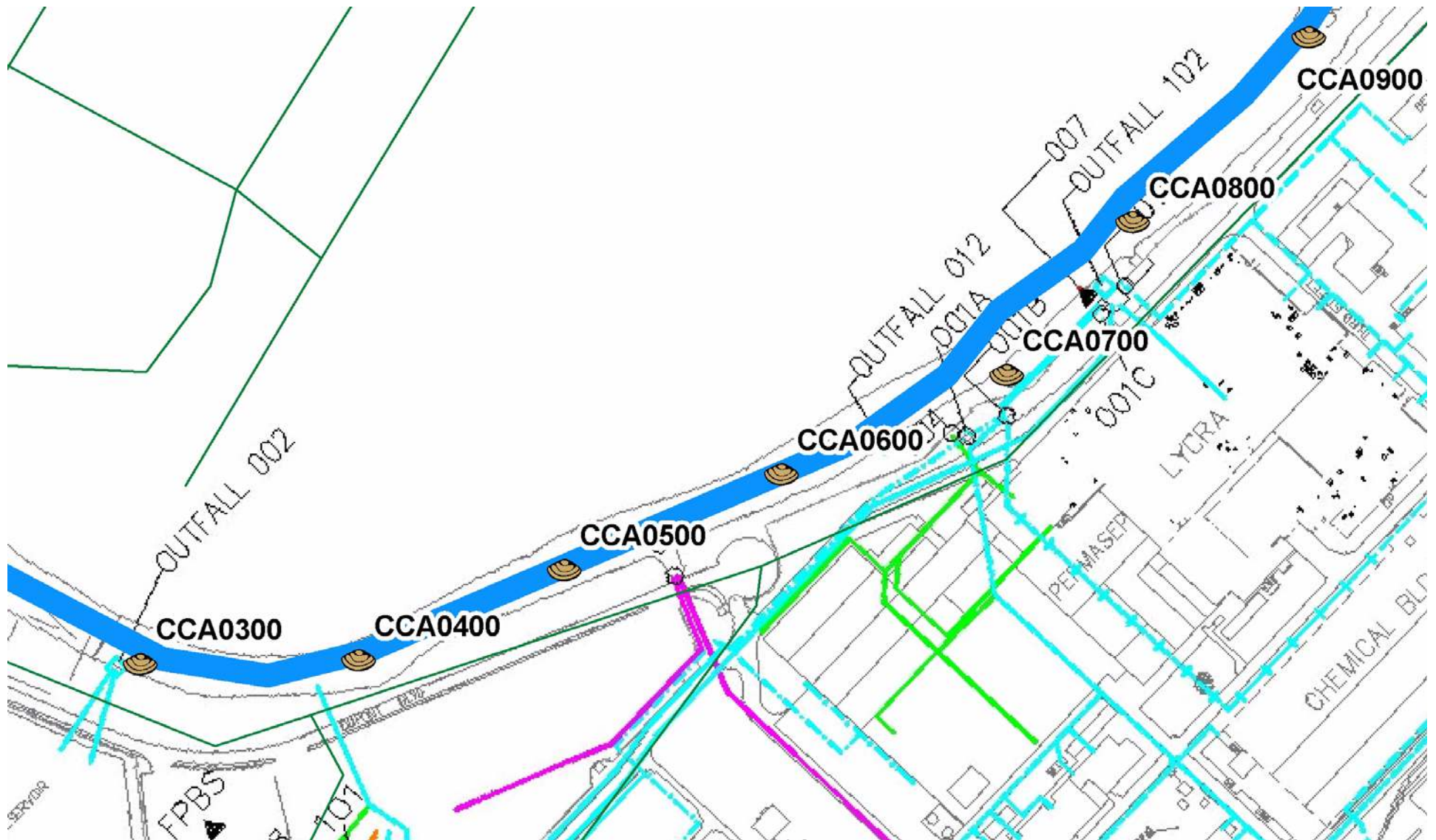


South River Reach: 0 – 600 meters

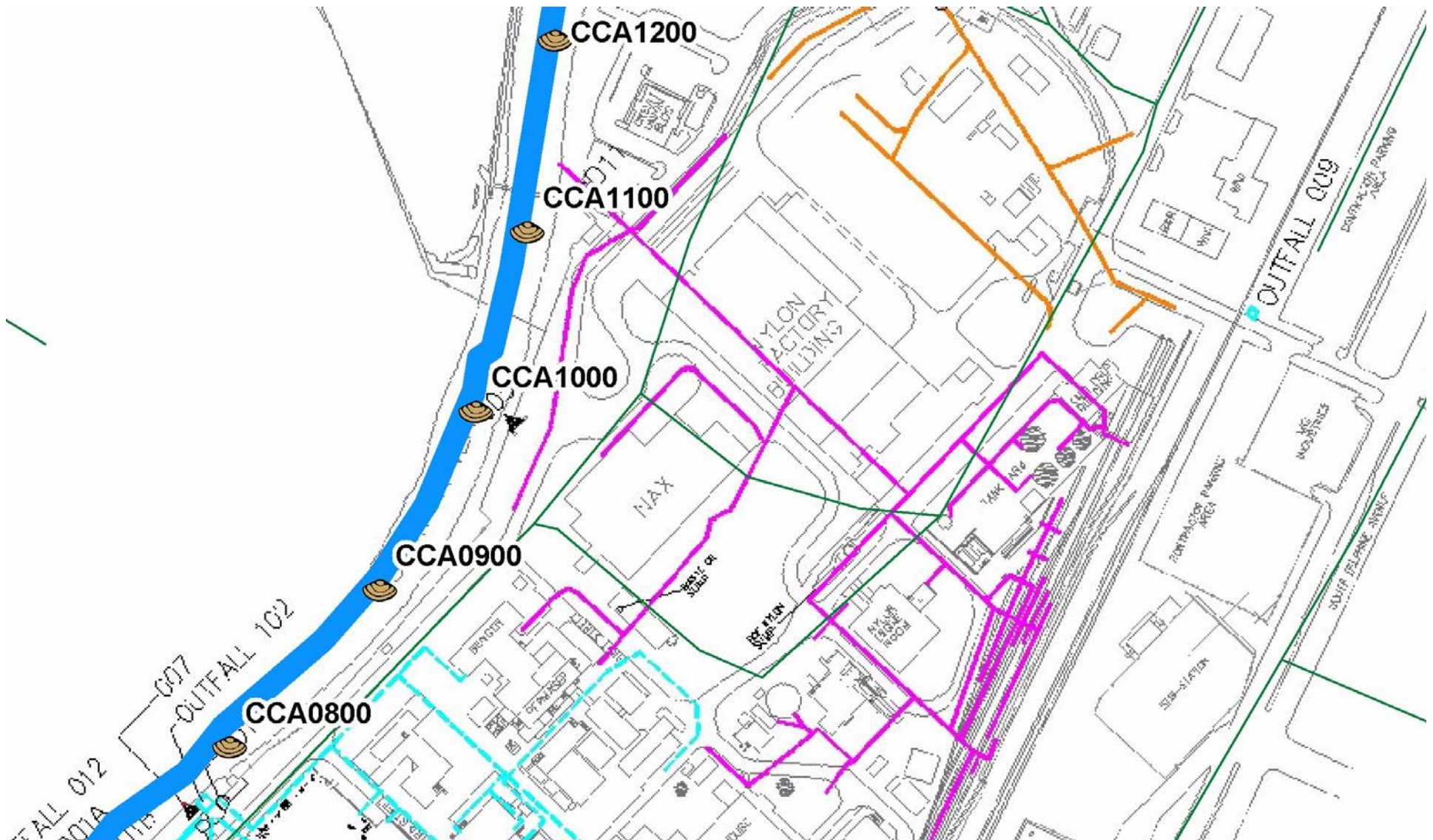




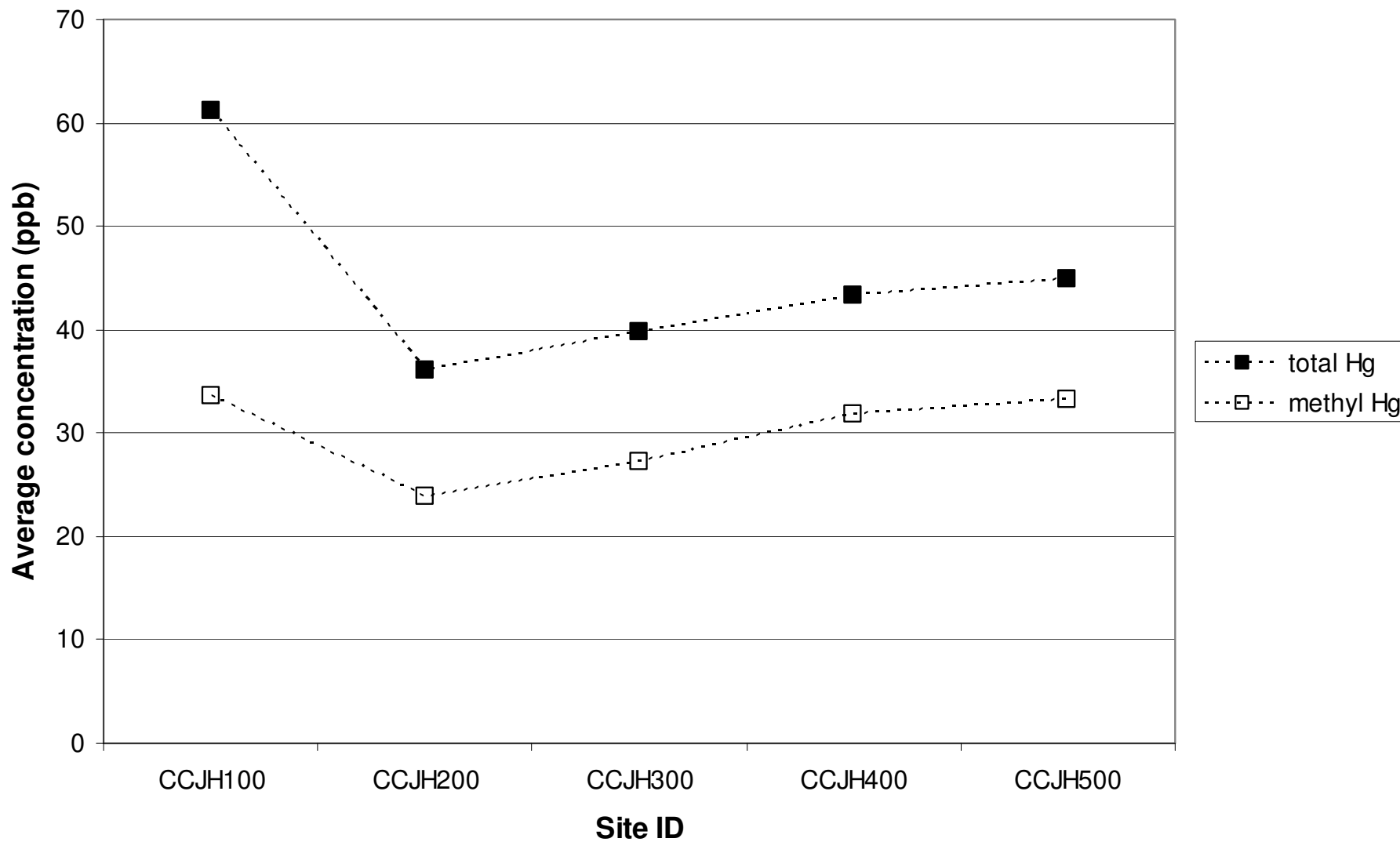
South River Reach: 300 – 900 meters



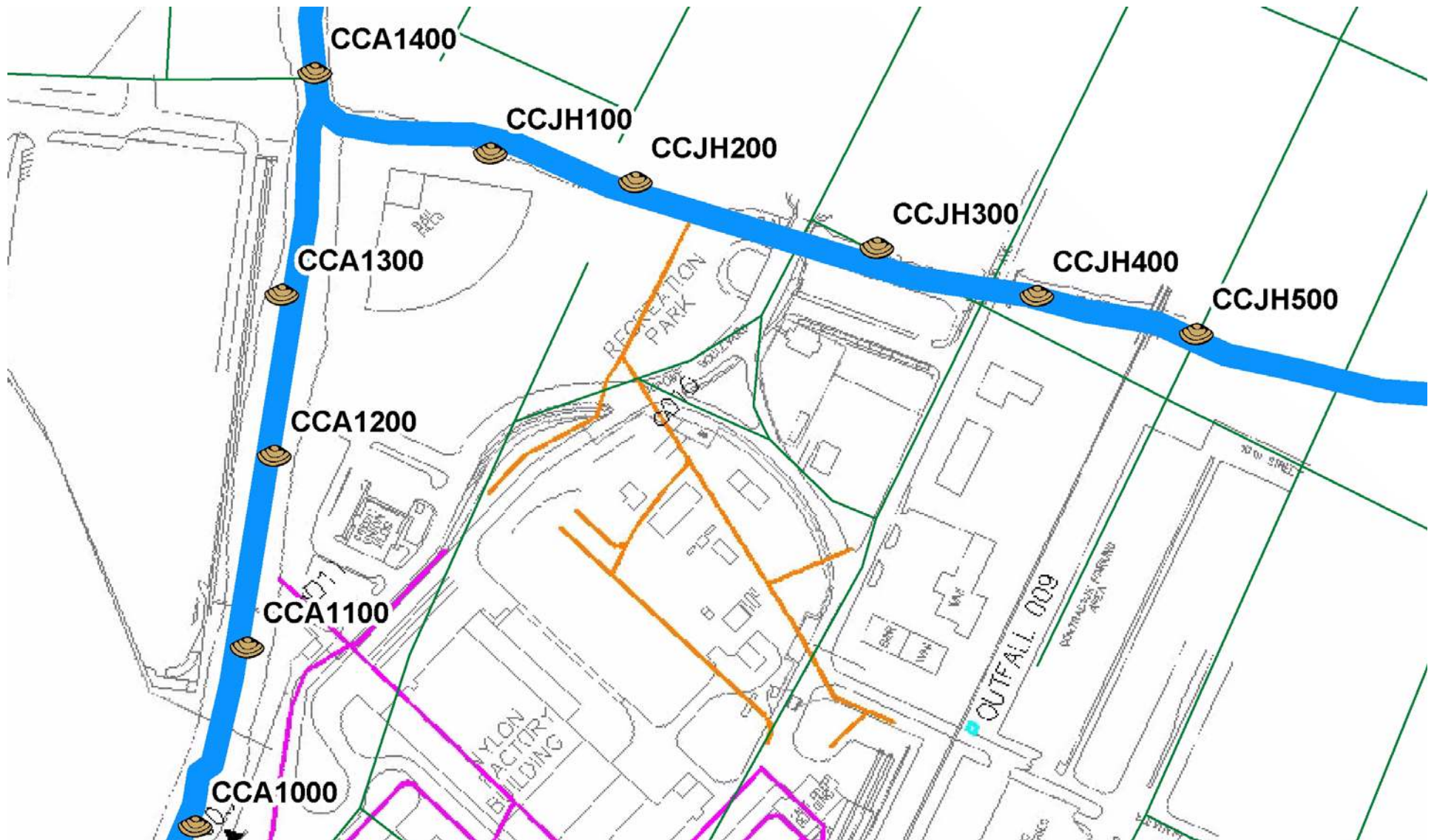
South River Reach: 800 – 1200 meters



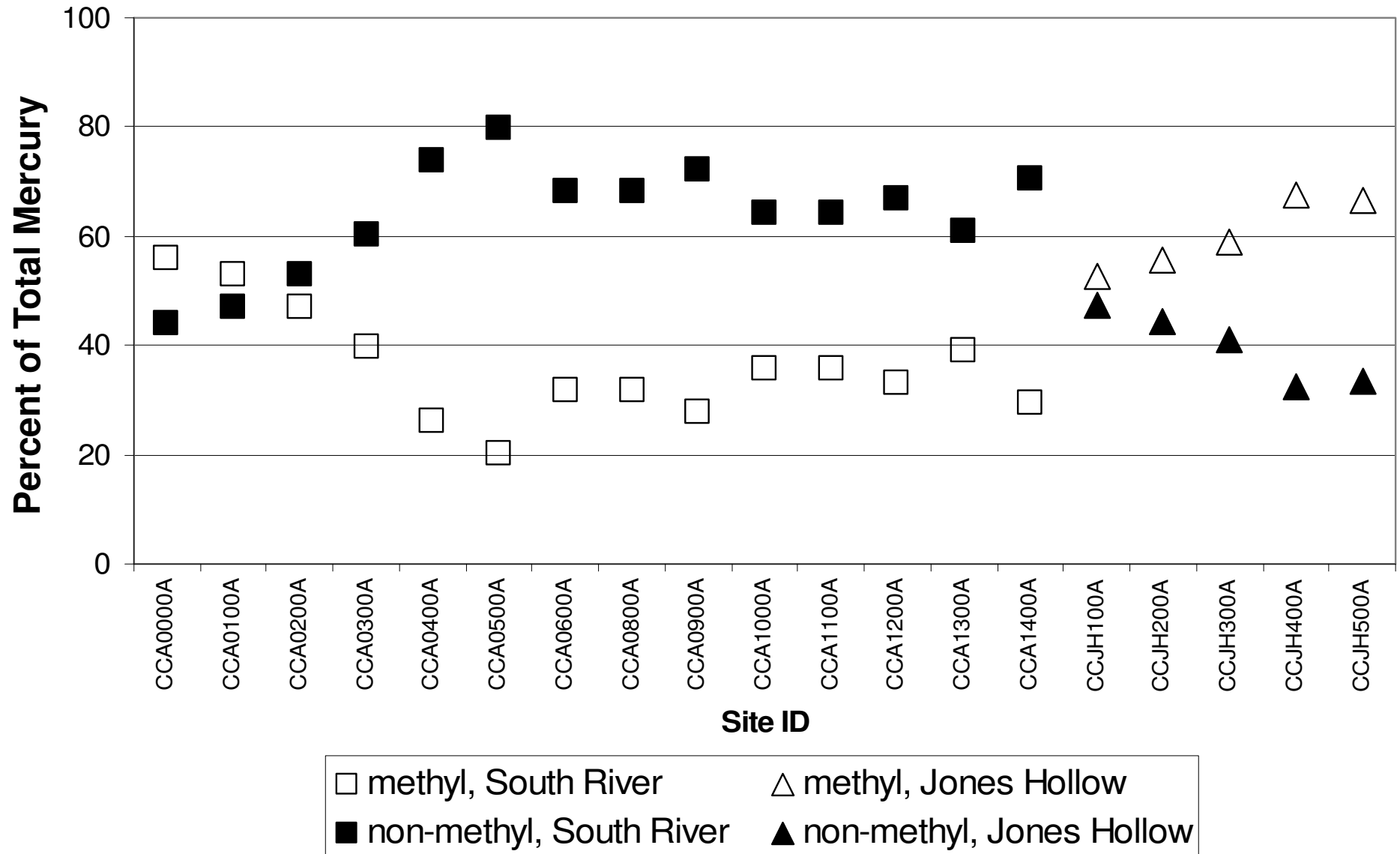
Mercury in Jones Hollow Clams near Dupont Plant



Jones Hollow Reach: 0 – 500 meters



Mercury fractions in clam tissue, 2004

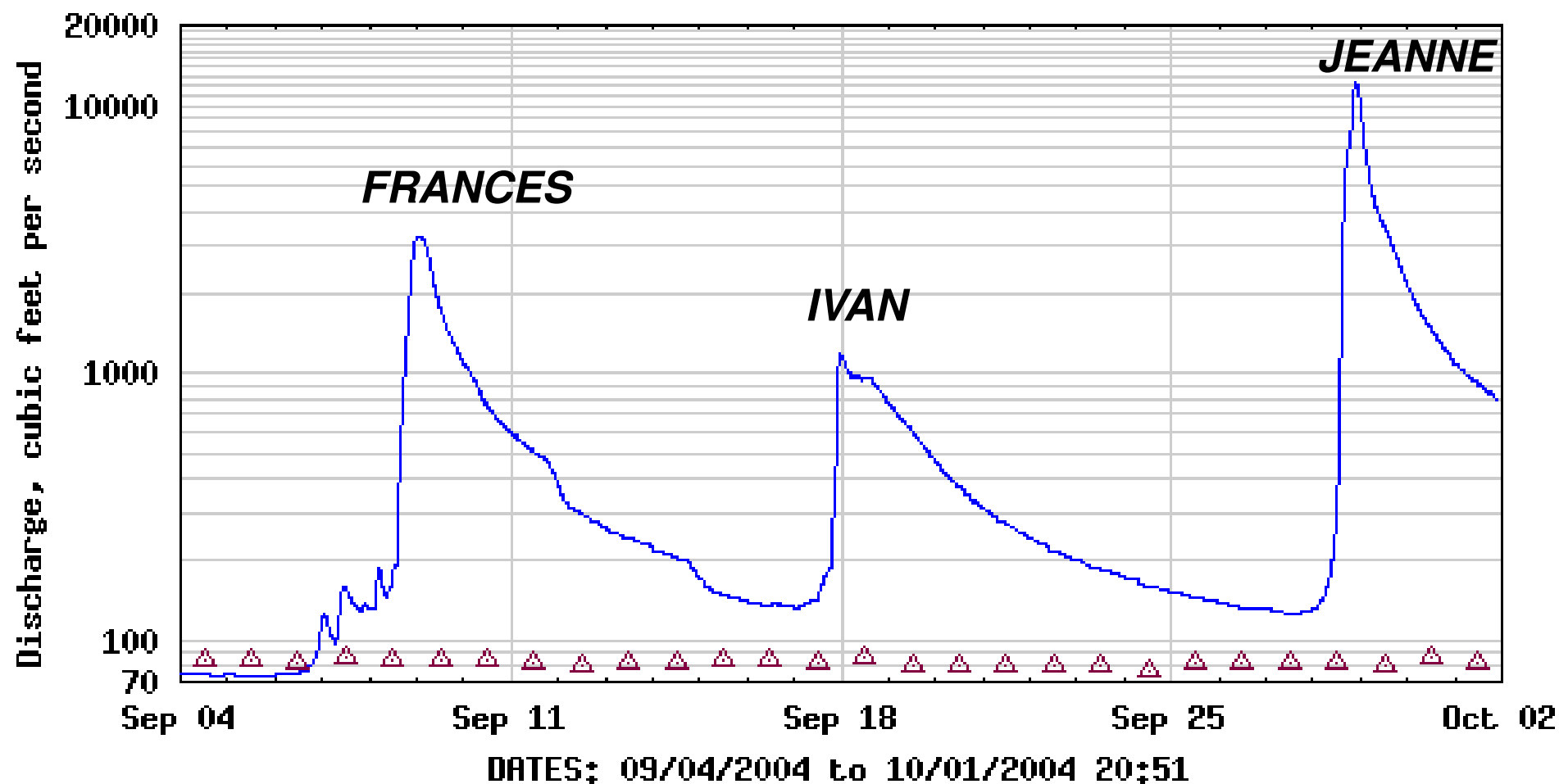


Still to come....

- Caged Clams: North Park to Basic Park
 - Placed on July 10
 - Recovered on September 25 (after 77 days)
 - 14 of 20 cages recovered (70%)
- Caged Clams: Dooms Mill Pond
 - Placed on July 16
 - Recovered on September 25 (after 71 days)
 - 18 of 20 cages recovered (90%)



USGS 01627500 SOUTH RIVER AT HARRISTON, VA



EXPLANATION

— DISCHARGE

△ MEDIAN DAILY STREAMFLOW BASED ON 61 YEARS OF RECORD

Thanks to...

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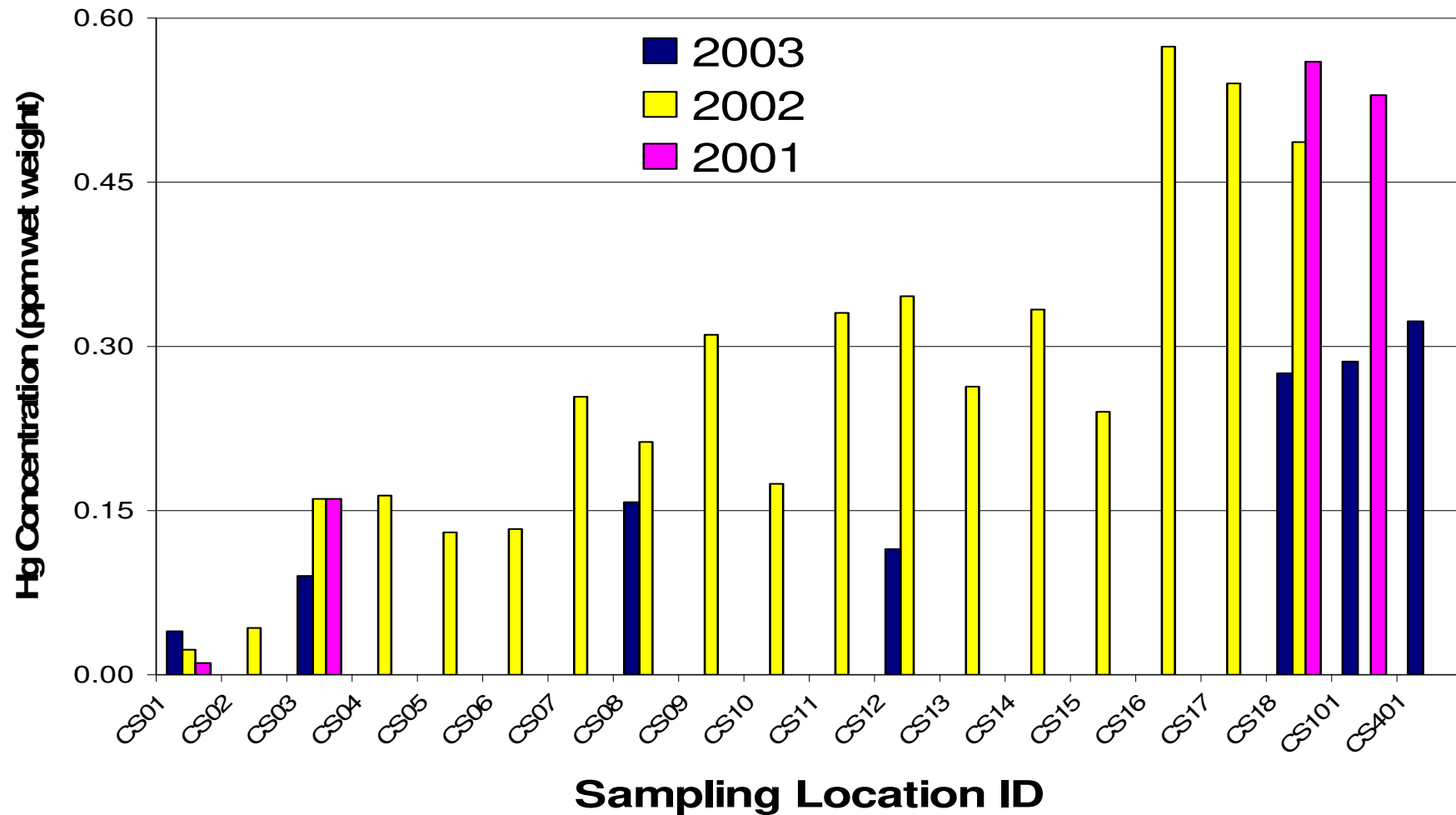
Harrison Green

Jacob Hileman

Bill Van Wart

Ted Turner

Comparison of Clam Data, 2001-2003



Clam Tissue Results, 2003

