Coosa Riverkeeper Frank Chitwood recommends
AquaFluor® Handheld Fluorometer and Turbidimeter
http://www.turnerdesigns.com/products/field-fluorometer/aquafluor-handheld-fluorometer-and-turbidimeter
He says it can detect detergent markers in the field in real time, so you can walk upstream and down until you find where it's coming from. Very useful for dealing with wastewater utility claims that it coud be cows.
Costs about $2,500 from Turner design. They got a grant from Wells Fargo (really).
He says also talk to Chattahoochee Riverkeeper Jason Ulseth.

Tom Potter got a quote for two AquaFluors with warranty and logging for $5,360.00.
https://drive.google.com/drive/u/0/folders/0Bwetjr9zz74RM0k4WG5fME56Y0E

Tom Potter wrote:
See attached. Use of optical brighteners to trace untreated sewage was a topic of discussion in several breakout groups at Riverkeeper retreat. Chattahoochee Riverkeeper's said they had used the "tampon" technique with some success. Note that in our "blackwater" rivers detection of fluorescing compounds is challenging due to high background from the DOM. The ratio technique described in the USF dissertation looks like a promising "work around". I will look into cost of equipment (Fluorometer) for "on-site" field measurements

- http://eprints.whiterose.ac.uk/86841/

A low cost method to detect polluted surface water outfalls and misconnected drainage

Chandler, D.M. and Lerner, D.N. (2015) *A low cost method to detect polluted surface water outfalls and misconnected drainage.* Water and Environment Journal, 29 (2). 202 - 206. ISSN 1747-6585

- http://scholarcommons.usf.edu/etd/3815/

Tracing Anthropogenic Wastes: Detection of Fluorescent Optical Brighteners in a Gradient of Natural Organic Matter Fluorescence, By Laura Kellie Dixon
https://drive.google.com/drive/u/0/folders/0Bwetjr9zz74RM0k4WG5fME56Y0E