



Figure 3. Alapaha Rise ISCO sampling station.

Dead River Swallet Dye Trace

On June 22, 2016 at 11:03 AM, 100 lbs. of powdered fluorescein dye was introduced into the Dead River Swallet by lightly sprinkling the dye directly on to the surface of the Dead River's turbulent flow in the curve approximately 150 yards upstream of the swallet. The flow into the swallet was measured by SRWMD staff at 311 cfs minutes before the dye was introduced. The cover page photograph was taken during the dye introduction.

The field sampling team first observed visible fluorescein dye at Alapaha Rise on June 28 six days after introduction and at Holton Creek on July 1, nine days after introduction. Sampling for this trace was terminated on August 10, 2016, and the ISCO sampling stations were dismantled.

All of the samples collected during this trace were stored in the FGS geochemistry lab's refrigerator until they were overnighted via FedEx to Ozark Underground Laboratory, Inc. on August 23 and 24, 2016. The samples were split and shipped in two separate shipments as a precaution in case a shipment was lost in transit.

A graph of the results for the water samples that were analyzed are shown in Figure 4. Information on all the water samples collected by the ISCO automated samplers during the Dead River Swallet dye trace are provided in Appendix III.