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Report of Activities & Observations at Water Control Structures, Brevard & Osceola Counties, Florida; March 15 & 16, 2016, February 25 & 26, 2020 and March 29 & 30, 2021

The St. Johns River Water Management District (SJRWMD) requested Karst Environmental Services, Inc. (KES) to conduct cleanouts of water control structure stilling well pipes at sites in Brevard and Osceola County, Florida. KES underwater investigations were conducted by Peter Butt and Matt Hubner, both of KES. This report documents the activities and observations made on March 15 and 16, 2016, February 25 and 26, 2020 and again on March 29 and 30, 2021.

Observations at Control Structure S-96A:

March 15, 2016

Upstream: Water depth ~ 7 feet. Both-no caps, square plate on 3" flange.

Downstream: Water depth ~ 7 feet. Square plate had holes big enough for pipe snake/auger (50' long x 1/2").

February 25, 2020

Upstream: End plate rusted open, now has ~3" open hole. Accessible to snake.

Downstream: End plate rusted open, now has ~3" open hole. Accessible to snake.

March 29, 2021

Upstream: End plate still open, now has ~3" open hole. Accessible to about 40 feet of snake. Two runs of snake with successful flush following.

Downstream: End plate still open, now has ~3" open hole. Accessible to about 40 feet of snake. Two runs of snake with successful flush following.

Observations at Control Structure S-96B:

March 15, 2016

Upstream: Pipe is off the pier; do not have to dive.

Downstream: Silty, flushed. Is capped. Water depth ~ 10 feet.

February 25, 2020

Upstream: Transducer/well on pier.

Downstream: Original support piling was cut well below water line, was located during recon/search. Replacement PVC pipe runs along bottom to piling and then to a 90° with a ~3' vertical riser topped with a threaded flange and 4" threaded cap with perforations. Riser pipe is tightly strapped to piling. Snake inserted as far as possible, but current arrangement will probably trap some sediments. U-bolt handle was added to cap.

March 29, 2021

Upstream: Transducer/well on pier.

Downstream: Pipe and cap in same condition/configuration as last visit. Snake inserted into pipe about 40 feet before resistance twice with successful flush following. To aid in future re-location, pipe and piling were measured to be 35 feet out from blue rebar stake placed on shore.