From:	William H Orem
To:	Axelrad, Don
Cc:	gilmourc@si.edu
Subject:	Re: Everglades surface water sulfide
Date:	Friday, January 30, 2009 2:03:27 PM

Don:

Have had some email issues this morning, so please excuse if you already received this email. We have some of our surface water sulfide data published in the following USGS OFR: Orem, W.H., Lerch, H.E., and Rawlik, P., 1997, Descriptive geochemistry of surface and pore water from USGS 1994 and 1995 coring sites in south Florida wetlands: USGS Open-File Report 97-454, 70 pp. In general, we see surface water sulfide at or below the detection limit (0.1 ppb), except at heavily contaminated sites like F1 where sulfide can be several 100s of ppb. We use the electrode method on FILTERED water samples, adding SAOB in the field. The SAOB has a very high pH which drives all sulfur species towards S2-, thus you are measuring the SUM of all dissolved sulfide species. I know EPA sees higher sulfide levels in surface water, and this may be an artefact of their methodology.

Bill