**EN2017 Presentation Proposal**Submitted September 15, 2016

**Presentation Title: Ambient Water Quality Monitoring System**

The Science Services Administration for the Maryland Department of the Environment has partnered with the states of Utah and Alaska to implement several crucial improvements to the Ambient Water Quality Monitoring System (AWQMS). This presentation will review and demonstrate the improvements and discuss additional upcoming improvements.  All improvements discussed will be available at no additional charge to the rest of the AWQMS community, which currently includes 6 state agencies, approximately 70 tribal programs, and approximately 65 volunteer, watershed, and municipal agencies in Colorado.

Specific improvements to be discussed include:

1) Addition of OGC-compliant web services to allow for simpler real-time integration with GIS applications;

2) Addition of Restful Web Services to allow use of up to date water quality data by external tools and web sites;

3) Automatic synchronization of WQX domain value tables in AWQMS;

4) Addition of automatic calculation of metals standards based on other data such as hardness;

5) Addition of the ability to capture Beach Notifications data in AWQMS and flow the data via the Exchange Network to the PRAWN Beach Notification database,

6) Support Capturing Water Quality Assessment Information in preparation for the redesigned ATTAINS / OWIR Exchange Network Flow;

7) Improved support for continuous monitoring data capture, analysis, and sharing including flow of sensor meta-data to a national catalog.

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**Presenters:**

Mark LeBaron, PMP

Gold Systems, Inc.

2121 S McClelland St #204

Salt Lake City, UT 84106

markl@goldsystems.com

Office 801 456.6145

Cell 801 698.4472

Fred Schenerman

Maryland Department of the Environment

Science Services Administration

Montgomery Park Business Center

1800 Washington Blvd

Baltimore, MD 21230-1718

fred.schenerman@maryland.gov

Voice: 410-537-4121