

From: haekyungad <haekyungad@aol.com>
To: baryohay <baryohay@water.ca.gov>; reploglearizona <reploglearizona@cox.net>
Sent: Wed, Apr 6, 2011 4:00 pm
Subject: RSA Environmental Irrigation Metering Pipe and Gate System

Baryohay,

Thank you again for speaking with me over the phone yesterday. Below and attached is RSA's response for public submission to the two documents forwarded yesterday.

Best regards,

Rick Adler
President
RSA Environmental, Inc.
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Att:

RSA Environmental, Inc. with John Replogle, Ph.D. (inventor of the Replogle Flume) and McCrometer, Inc. manufacturer of the trash shedding reverse propeller flow meter have designed, fabricated and tested an economical proprietary metering system that meets the SBx7-7 requirement. The *RSA Flow Conditioned Metering Pipe* with specially configured internal flow conditioning elements designed by Dr. Replogle is fabricated as a single piece pipe. The pipe can be attached to the end of the District's Farm turn out pipe or inserted

directly into the exit pipe. The system's meter provides volume delivery accurate to better than +/-5%.

The base design pipe can be component added with a manually or automatically operated control gate mounted either upstream in the District's canal or added to the end of the RSA Pipe in the farm ditch or flood field. A solar panel powered SCADA system computes the propeller meter and the position of the control gate to maintain constant flow into the field. The SCADA system with added radio can communicate with both the District Headquarters and a laptop in the Ditch Tender's vehicle to both monitor and control the gate. Memory in the PLC at each site can be accessed showing the past irrigation's statistics including the dates and times, acre feet delivered, the flow in cfs and other metrics.

A full RSA system has been installed at the Imperial Irrigation District with an irrigation cycle every two weeks. A pipe only, SBx7-7 requirement system will be installed at the Merced Irrigation District within the next few weeks. For more information please contact Rick Adler, President, RSA Environmental, Inc. at (909) 946-0964
radler@rsaenvironmental.com