

From: Karen Ashby [<mailto:KarenA@lwa.com>]
Sent: Friday, December 06, 2013 6:35 AM
To: Michael Johnson
Cc: Karen Ashby; Danielle Moss; Tom Grovhoug
Subject: Status Update for LSJR Task 2a
Importance: High

Mike –

Below is a status update regarding the data request and subsequent data submittals.

I would like to have Danielle briefly review this with the LSJRC during the next meeting so that we can officially “close” out this task and proceed with the update of WARMF and the development of the Draft TM.

The Team is currently in the process of incorporating the data and any QA/QC or processing is being documented for incorporation in the tech memo along with the source of the data.

It should be noted that the database itself will not be expanding the metadata for each sampling point or source. Instead, the source references or links to sources that are in the database will be provided in a list format as part of the data memo that is to accompany the database. This will allow for backtracking to the original source metadata if needed.

Below is a summary of the data that we have received in addition to the WARMF database. Bolded items show where we have located potential new data to incorporate into the database.

- **DWR additional data** – EC and Flow data not available online and particularly for early date ranges was provided by Ernie Taylor at DWR. The station lists and date ranges along with a comparison with WARMF data is attached and the provided data is currently being incorporated.
- **Westside (and Eastside) Drainage Coalition** – It was indicated that new data may be available via the Drainage Coalitions and Irrigated Lands Program. The East San Joaquin Water Quality Coalition and Westside San Joaquin River Watershed Coalition data is being obtained via CEDEN and is currently being incorporated.
- **2004 Salt and Boron TMDL** – The data within the report and it’s appendices is not “raw” data and has already undergone averaging and summation (e.g. daily averages summed to monthly data). WARMF runs are daily and contain additional information since the development of the TMDL and so a direct comparison of the WARMF database and the TMDL data in the report cannot be made. In lieu of this, a comparison of the data locations, station names, and time frames was conducted.
 - Table A-1: Flow Data Sources which are standard USGS gages. Already in WARMF
 - Table A-2: More Flow Data Sources which are standard USGS gages. Already in WARMF
 - Figure A-1: Locations of WQ stations. 3 stations with unfamiliar names were identified (Stanislaus River at Koetitz Ranch, Tuolumne River at Tuolumne City, and Merced River at Milliken Bridge). The first two line up with Stanislaus River at Caswell State Park and Tuolumne River at Shiloh Road, which are the monitoring points with the largest amount of data on each of the two rivers. The Milliken Bridge location doesn’t line up with any modern sampling point and data has not currently been located.
 - **Table A-3:** The table cites Charlie Kratzer (1987) and Les Grober (1998) as its data sources for EC and TDS data. Kratzer is a reference to the SJRIO model which was incorporated in the first iteration of WARMF. The raw data used by Grober was located at the water boards website below and is currently being incorporated.

http://www.waterboards.ca.gov/rwqcb5/water_issues/water_quality_studies/grasslands_load/10yrload.shtml

- Turlock Irrigation District – we were contacted by Debbie Liebersbach requesting more information and specifics on the request. A response was provided to her questions. No data has been received.
- 1980 SDWA/USBR Report on the Effects of the CVP on the Southern Delta – Provided by John Herrick. This report contains useful data on flow and salinity at a number of locations but the time range of the data (1930 – 1969) is almost all outside the date range of our evaluation as currently specified in the scope and by the Committee. It is currently not being incorporated in to the dataset.
- **Grassland Water District monitoring sites** – 5 drainage sites that would be useful have been identified. Raw 15 minute data is available but not readily usable. The data from these stations is published in an annual report after undergoing QA analysis and daily averaging and is provided to the Bureau of Reclamation. Ric Ortega has been contacted with a data request to obtain the QA'd data. We are currently working on obtaining this data.

Thank you!

Karen and Danielle