

## **Central Valley Salinity Alternatives for Long-Term Sustainability Development of a BPA for Salt and Boron in LSJR**

### **MODELING APPROACH FOR PLANNED PLUS MAXIMUM MANAGEMENT FOCUS BUNDLE**

Below is a description of the implementation actions (IA) included in the proposed Planned Plus Maximum Management Focus Bundle (Maximum Management Focus Bundle) that were identified during the 12 January 2015 LSJRC in-person meeting at Larry Walker Associates held to discuss options for modeling approaches for the remaining two salinity management bundles to be modeled by the LWA Team. The Maximum Management Focus Bundle includes the same IAs as the Planned Bundle plus additional implementation of IA 10b. Sequential Reuse and Volume Reduction – Salt Accumulation Area (SJRIP). The Maximum Management Focus Bundle is designed to meet an EC target of 1,010  $\mu\text{mhos/cm}$  at Crows Landing. This document reflects the communications to date with the LSJRC regarding the modeling of the Maximum Management Focus Bundle.

#### **IA 10b. Sequential Reuse and Volume Reduction – Salt Accumulation Area (SJRIP)**

Assumptions: As part of the Maximum Management Focus Bundle, the LWA Team will model the effects of one or more new SJRIP-like projects in the Grassland Drainage Area (GDA) that will accumulate salts from agricultural flows that currently drain to Salt Slough, Mud Slough, and the Gustine Area. Mud Slough flows will be adjusted to account for the removal of flows from the Grassland Bypass Project. One or more new SJRIP-like projects will be modeled to achieve targeted salt load reductions at Crows Landing. Specifics of one or more SJRIP-like projects will be developed with input from the LSJRC (post-modeling) to provide sufficient information needed to adequately evaluate the economics and California Environmental Quality Act (CEQA) impacts of such a project.

Modeling Approach: WARMF includes inputs from Salt Slough, Mud Slough, and the Gustine Area. San Luis Drain flows will be set to zero (0) in WARMF so the Grassland Bypass will not contribute any flow or loading to the San Joaquin River. Points of diversion from Mud Slough (also containing flows from the Gustine Area) and Salt Slough will be added to the WARMF model just upstream of where each joins the San Joaquin River. Flows from these areas will be adjusted to meet targeted salt load reductions at Crows Landing.