

2485 Natomas Park Drive, Suite 600
 Sacramento, California 95833-2937
 United States
 T +1.916.920.0300
 F +1.916.920.8463
 www.jacobs.com

Project Name Sites Reservoir Project

Subject Model Results to Support the May 2021 Administrative Revised Draft EIR/SDEIS: No Action Alternative, Alternative 1A, Alternative 1B, Alternative 2, and Alternative 3 – DSM2, HEC5Q and RecTemp Results Appendices

Attention Ali Forsythe/Sites Project Authority John Spranza/HDR
 Erin Heydinger/HDR Monique Briard/ICF
 Nicole Williams/ICF

From Robert Leaf/JACOBS Steve Micko/JACOBS
 Reed Thayer/JACOBS

Date March 19, 2021

1. Introduction

The Sites Reservoir Project team has developed model simulations to support quantitative analysis of Sites long-term operations as part of developing an Administrative Revised Draft EIR/SDEIS, for completion in May 2021.

The results of these model simulations are provided for informational and review purposes. If there are any questions regarding the results of these simulations, please contact the modeling team.

2. Modeled Scenarios

Model results appendices are provided for the alternatives tabulated below.

Model Name	Label Name (as seen in spreadsheet)	Description
No Action Alternative 011221	NAA 011221	Baseline simulation (Reclamation 2020 Benchmark)
Alternative 1A 011221	ALT 1A 011221	1.5 MAF Reservoir
Alternative 1B 011221	ALT 1B 011221	1.5 MAF Reservoir with 91 TAF of Reclamation Investment
Alternative 2 011221	ALT 2 011221	1.27 MAF Reservoir
Alternative 3 020121	ALT 3 020121	1.5 MAF Reservoir with 345 TAF of Reclamation Investment

The DSM2 model (Hydro and Qual components) was used to simulate Delta hydrodynamics and salinity conditions based on the results of the CalSim II models.

The HEC5Q (Trinity, Sacramento, and American River models) and Reclamation Temperature Model (Feather River model) models were used to simulate reservoir and riverine temperature conditions based on the results of the CalSim II models.

These models (DSM2, HEC5Q and RecTemp) have been jointly developed by Reclamation and the California Department of Water Resources (DWR) over many years. These models are useful so long as the results are interpreted consistent with the model limitations.

3. Model Results for Modeled Scenarios

Reports for a range of outputs have been prepared. These results are included in the following attachments:

- 3.1. SPJPA_RDEIR_SDEIS_Appendix_6B1_SacramentoSanJoaquinDeltaModeling_SalinityResults_20210319.pdf (DSM2)
- 3.2. SPJPA_RDEIR_SDEIS_Appendix_6B2_SacramentoSanJoaquinDeltaModeling_ChlorideResults_20210319.pdf (DSM2)
- 3.3. SPJPA_RDEIR_SDEIS_Appendix_6B3_SacramentoSanJoaquinDeltaModeling_X2Results_20210319.pdf (DSM2)
- 3.4. SPJPA_RDEIR_SDEIS_Appendix_6C_RiverTemperature_20210319.pdf (HEC5Q and RecTemp)

Each attachment includes a cover page cataloging the results included and formats used.