

Basin Plan Amendment to Update the Maximum Benefit SNMP for the Chino Basin

MARCH 12, 2020





Key Points

- RWQCB requests have increased WEI scope by \$195k, WM share has increased by ~\$98k
- Contingency has been part of the original Task Order (T.O.) and will be budgeted for FY 20/21; WM share will be \$33k
- Environmental review scope from the original T.O. will be budgeted in FY 20/21; WM share will be \$10k
- Impact on 2019/20 budget: transfer/amendment for ~\$34k will be brought to the WM process in April 2020
- Original schedule to end in 2019/20; now goes into 2020/21

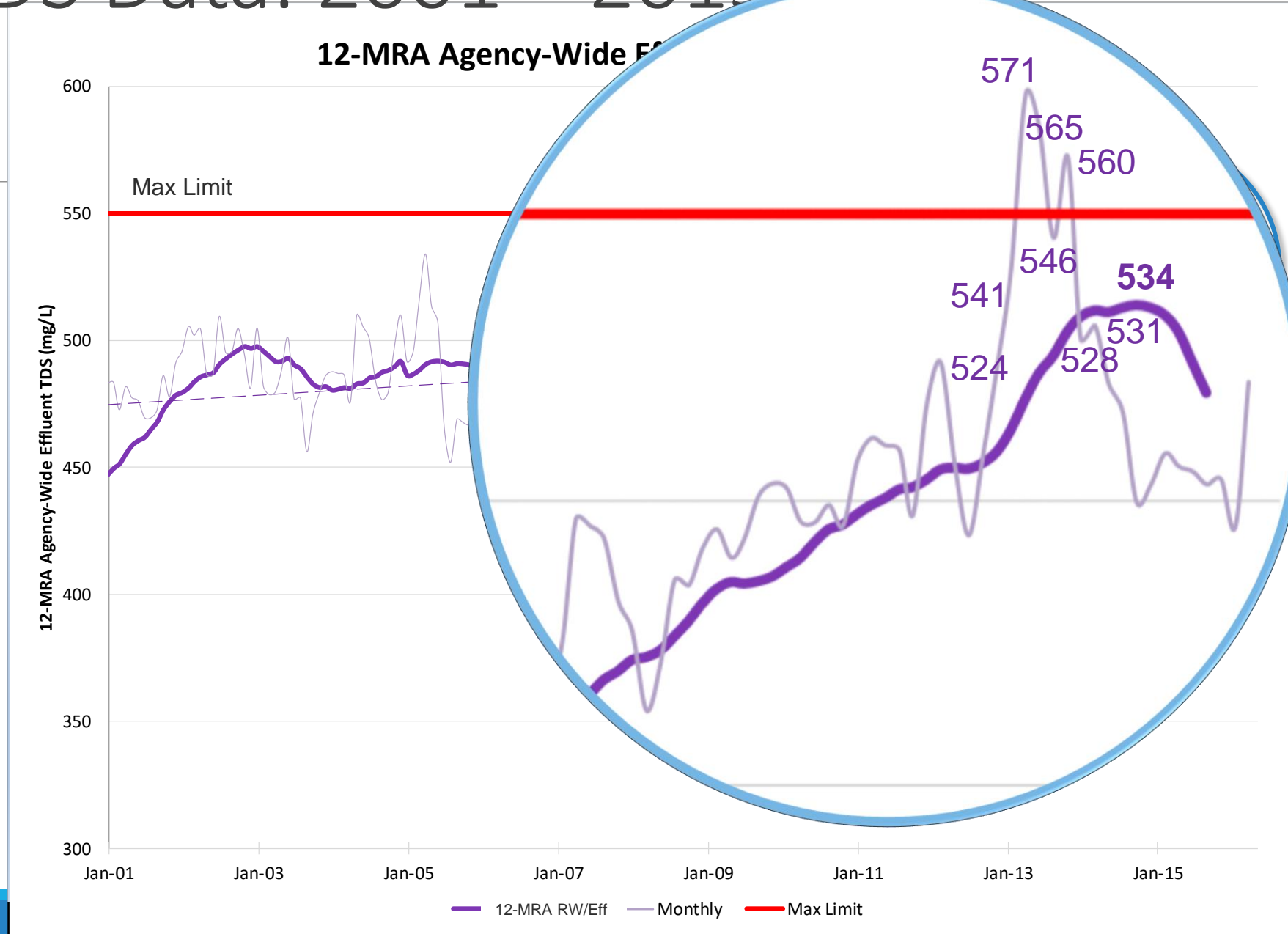


Project Objectives

- Modify the Maximum Benefit SNMP and IEUA recycled water permits to change the recycled water TDS compliance metric to a longer term averaging period to avoid short-term violations during drought periods
 - Current averaging period = 12-month
 - Proposed averaging period = 5-year to 10-year
- Regional Board requires technical analysis of basin TDS and nitrate concentrations to assess the potential impacts of a revised compliance metric



TDS Data: 2001 – 2015



Sep-14	524
Oct-14	541
Nov-14	571
Dec-14	565
Jan-15	546
Feb-15	560
Mar-15	528
Apr-15	531



Scope of Work Initiated FY 2017/18

- **Task 1** – Develop Planning Data
- **Task 2** – Develop Planning Alternatives
- **Task 3** – Develop Solute Transport Model and Evaluate Baseline Planning Scenario
- **Task 4** – Evaluate Planning Alternatives with Model
- **Task 5** – Develop Salinity Management Proposal
- **Task 6** – Provide Support to IEUA/ Watermaster in Communicating the Proposal to Stakeholders
- **Task 7** – Provide Technical Support to IEUA/ Watermaster in Negotiating the Proposal with the Regional Board
- **Task 8** – Support Development of a Basin Plan Amendment to Formalize the Salinity Management Proposal
- **Task 9** – Meetings and Project Management



Progress to Date

- Completed/documented the development of the proposed technical approach and planning assumptions; obtained approval by the Regional Board
- Completed/documented the development of the planning data
- Completed/documented the development of computer codes for four models and a process to automate the integration and running of them; obtained approval by the Regional Board
- Completed/documented the development of the water quality initial conditions in the vadose zone and saturated zone; obtained approval by the Regional Board



Progress to Date

- Used the models to run and analyze a baseline scenario (Scenario 2019 BPA-1a) based on the approved technical approach and assumptions.
- Based on the model results of Scenario 2019 BPA-1a, used the models to run and analyze the baseline scenario under an alternative assumption for the fate and transport of TDS and nitrate in the vadose zone (Scenario 2019 BPA-1b)
- Prepared an alternative methodology to address the fate and transport of TDS and nitrate in the vadose zone based on the results of Scenarios BPA-1a and -1b. Prepared a presentation to explain the need for the alternative methodology for review with the Regional Board.



Collaboration with Regional Board

- Conducted four project status and detailed technical review meetings with the Regional Board:
 - February 22, 2018
 - May 31, 2018
 - December 10, 2018
 - **October 3, 2019** – outcomes included requests for changes to the project scope of work



Required Revisions to the Scope of Work

- Prepare technical memorandum on how the project addresses climate change
- Prepare revised estimate of the projected TDS/N concentrations for SWP water
- Update planning projections to comport with other studies being analyzed under CEQA: 2020 SMP and Chino Basin Program
- Implement revised methodology for simulating fate and transport in the vadose zone, includes running additional baseline and sensitivity runs
- Provide expanded support to Regional Board staff to secure Basin Plan amendment



Cost to Complete Project

- The increased cost to complete the project is \$195,909

Original Approved Budget	Billed to Date as of December 31, 2020	Cost to Complete Project in 2020	Revised Project Costs
(1)	(2)	(3)	= (2) + (3)
\$636,626	\$443,814	\$388,722	\$832,535



Complete Picture

Description	Original Budget	Amended Budget	Difference
Salinity Basin Plan Amendment	\$408,000	\$603,909	\$195,909
Nitrogen Modeling & Evaluation	\$229,000	\$229,000	\$0
Environmental	\$20,000	\$20,000	\$0
Contingency	\$66,000	\$66,000	\$0
Total	\$723,000	\$918,909	\$195,909

Entity	Fiscal Year 2017/18	Fiscal Year 2018/19	Fiscal Year 2019/2020	Fiscal Year 2020/2021
Watermaster	\$106,981	\$31,042	\$110,912	\$102,262
IEUA	\$217,204	\$63,024	\$159,160	\$128,323
Total	\$324,186	\$94,066	\$270,072	\$230,585



Schedule

- **March/April 2020:** Complete updated baseline scenarios
- **April/May 2020:** Complete evaluation of planning alternatives
- **June 2020:** Complete documentation of technical work
- **August 2020:** Submit proposal for revised SNMP to Regional Board
- **Aug-Oct 2020:** Negotiate and finalize proposal; stakeholder outreach
- **Oct-Dec 2020:** Prepare supporting documents for Basin Plan amendment, including SED
- **Jan - June 2021:** Regional Board performs administrative process with State Board to complete Basin Plan amendment



END
