

MAC Plan – 2022 Addendum Project List Update

January 2022

Introduction

This addendum to the Mokelumne-Amador-Calaveras Integrated Regional Water Management Plan (MAC Plan) documents the changes to the Project List contained in the 2018 MAC Plan update. The primary purpose for updating the Project List is to better position the MAC Region to compete for additional grant funding associated with Proposition 1 (approved by California votes in November 2014) and other potential funding opportunities.

Project List Update Process Summary

The Upper Mokelumne River Watershed Authority (UMRWA), the Regional Water Management Group (RWMG) began the update in October 2021 by engaging the MAC Plan Regional Participants Committee (RPC). The update process included confirming the scoring and prioritization process, revising the project proposal forms, conducting a ‘call for projects,’ screening and evaluating the submitted projects, presenting the evaluation results to the RPC, modifying and integrating project proposals to enhance project benefits and efficiencies, and finalizing the updated project list.

A call for projects was held between October 18, 2021 and November 15, 2021. A total of 22 Project Information Forms were submitted, which resulted in the addition of five projects and the updating of 17 projects. All 22 projects passed the initial screening. Additionally, 17 projects were removed at the request of the respective Project Proponent, either because the project had already been completed or it was no longer a priority for the Project Proponent. Three RPC meetings were conducted, all held virtually due to the COVID-19 pandemic. Table 1 below presents the update process steps and timeline.

Table 1 – MAC Plan Project List Update 2022

Activity	Timeline
<u>RPC Meeting #1</u> : Approved work activities and schedule.	October 18, 2021
“Call for Projects” issued which included Project Proposal forms and instructions for completed the forms. The call for projects targeted new project proposals and updates to projects contained in the 2018 MAC Plan.	October 18, 2021
Call for Projects is closed and projects are analyzed, which included scoring and ranking projects for the MAC Plan and conducting screening to identify potential projects for Proposition 1, Round 2 funding.	November 15, 2021
<u>RPC Meeting #2</u> : Reviewed and approved updated project list, discussed project funding for Proposition 1, Round 2.	December 20, 2021
<u>RPC Meeting #3</u> : Discussed, selected, and approved projects for Prop 1 Round 2 funding.	January 10, 2022
UMRWA adopted Addendum and approved RPC funding recommendations.	January 28, 2022

RPC Membership

In conjunction with the initiative to update the Project List, the RPC membership was reviewed and updated with the consent of the RPC. This resulted in several new members being added and several members being removed. The current list of RPC members is listed in Table 2 below.

Table 2 – RPC Membership

Member	Representative(s)
Amador Fire Safe Council	Jan Bray
Amador Resource Conservation District	Amanda Watson
Amador Tuolumne Communication Action Agency	Joe Bors; Craig Case
Amador Water Agency	Larry McKenney; Rick Ferriera; Rich Farrington
Calaveras Amador Forestry Team	Pat McGreevy
Calaveras County Water District	Michael Minkler; Brad Arnold; Charles Palmer
Calaveras Public Utility District	Travis Small; John Kingsbury; Richard Blood
East Bay Municipal Utility District	Dave Briggs; Mike Tognolini; Susan Teefy
Foothill Conservancy	Megan Fiske; Meredith Sierra
Jackson Valley Irrigation District	Ed Gonzales
Pine Grove Community Services District	Lori Arnberg
United States Forest Service	Rick Hopson (Amador Ranger District); Ray Cablayan (Calaveras Ranger District)
Upper Mokelumne River Watershed Authority	Richard Sykes; Rob Alcott

Updated Project List

The updated Project List is presented below in Table 3, with its 2022 status indicated in the fourth column. The final scoring and prioritization of the 35 projects included in the Plan are presented in the Appendix.

Table 3 – Project List Update 2022

Project No.	Sponsor Agency	Project Name	2022 Project Status	Project Type	Capital Cost
1	ARCD	Soil Health & Climate Resilient Agriculture Education	No Change	Planning	\$70,000
2	AWA	Groundwater Banking Conjunctive Use Study	Removed	Planning	\$200,000
3	AWA	Groundwater Capacity in Amador Count	Removed	Planning	\$300,000
4a	AWA	Amador Canal Water Conservation Project	Updated	Planning and Implementation	\$500,000
4b	AWA	Ione Canal Water Conservation Project	New Project	Implementation	\$500,000
5	AWA	PG&E Storage Recovery	Removed	Planning	\$100,000
6	AWA	Lower Bear River Reservoir Expansion Study	Removed	Planning	\$200,000
7	AWA	Surface Storage Feasibility Study	Updated	Planning	\$250,000
8	AWA	Lake Camanche Recycling Water Project	Removed	Implementation	\$14,000,000
9	AWA	Amador Water Agency System Computer Modeling	Removed	Implementation	\$70,000
10	AWA	Amador Water Agency Master Plan	Removed	Planning	\$250,000
11	AWA	Highway 88 Corridor Sewer Trunk Line Study	Removed	Planning	\$50,000

Project No.	Sponsor Agency	Project Name	2022 Project Status	Project Type	Capital Cost
12	AWA	Camanche Area Regional Water Supply Project Phase II (CARWSP II)	Updated	Planning and Implementation	\$6,500,000
13	AWA	Ione Treatment Relocation Planning Study	Updated	Planning	\$500,000
14	AWA	Upper-Lower Water System Reliability Intertie Project	Updated	Planning	\$300,000
15	AWA	Lake Camanche Transmission Main Planning Project	Updated	Planning	\$500,000
16	AWA	Amador Water Agency Low Pressure Fire Flow Improvements	Removed	Planning	\$2,000,000
17	AWA	CAWP Fire Protection Project	Removed	Planning	\$150,000
18	AWA	Mt. Crossman Tanks Replacement and Consolidation Project	Updated	Implementation	\$11,298,427
19	AWA	Ione Clearwell Cover Hypalon Replacement Project	Updated	Implementation	\$500,000
20	AWA	Lake Camanche Water Service Replacement – Phase IV	Updated	Implementation	\$600,000
21	AWA	Amador Water Agency Treated Water Supply Study	Updated	Planning	\$100,000
22	AWA	Community Leachfield Groundwater Nitrate Study	Updated	Planning	\$100,000
23	AWA	Martell Wastewater Lift Station Reduction Project	Updated	Implementation	\$150,000

Project No.	Sponsor Agency	Project Name	2022 Project Status	Project Type	Capital Cost
24	AWA	Regional Wastewater Treatment and Recycling Project	Updated	Planning and Implementation	\$100,000
25	AWA	Lake Camanche Regional Wastewater System	Updated	Planning and Implementation	\$17,100,000
26a	AWA	Tanner Water Treatment Plant and Tanner Filter Media Replacement Project	New Project	Implementation	\$430,000
26b	AWA	Tanner Water Treatment Plan PLC Upgrade Project	Updated	Implementation	\$250,000
27	AWA	Water Storage Reoperation Study	Removed	Planning	\$50,000
28	AWA	SGMA Implementation for Amador County	Removed	Planning	\$100,000
29	AWA	Fishery Habitat Improvements	Removed	Planning	\$100,000
30	AWA	New York Ranch Reservoir Conservation Management	Updated	Planning	\$150,000
31	AWA	MAC Conservation Program Implementation	Removed	Implementation	\$1,664,000
32	CCWD	Sheep Ranch Drinking Water Treatment & Distribution Compliance Project	No Change	Implementation	\$4,000,000
33	CCWD	West Point Automated Meter Reading Project	No Change	Planning and Implementation	\$500,000
34	CCWD	West Point Water Treatment Plant Drinking Water Compliance Project	No Change	Implementation	\$1,250,000

Project No.	Sponsor Agency	Project Name	2022 Project Status	Project Type	Capital Cost
35	CCWD	Wilson Dam Meadow Restoration and Habitat Enhancement Plan	No Change	Planning	\$290,000
36	Foothill	Amador Household Water Efficiency Project	No Change	Planning and Implementation	\$695,000
37	Foothill	Mokelumne High Country Meadow Restoration	Updated	Planning	\$1,500,000
38	Foothill	Riparian Noxious Weed Abatement Plan	No Change	Planning	\$25,000
39	Foothill	Restoring the Upper Mokelumne's Anadromous Fish	Removed	Planning and Implementation	\$2,100,000
40	Foothill	Upper Mokelumne Watershed Landowner Guide	No Change	Planning	\$50,000
41	Jackson	Jackson Creek Sewer Line Relocation – Conceptual Design/Feasibility Study	No Change	Planning	\$200,000
42	UMRWA	Hemlock Forest Restoration Water Yield Project Study	No Change	Planning	\$0 (Previously Funded)
43	UMRWA	MAC Region DAC Small Communities Water and WW Needs Assessment	Removed	Planning	\$200,000
44	UMRWA	North Fork Mokelumne Watershed Erosion Control & Water Quality Restoration Plan	No Change	Planning	\$225,000
45	UMRWA	North Fork Mokelumne Watershed Erosion Control & Water Quality Restoration Project	No Change	Implementation	\$2,000,000

Project No.	Sponsor Agency	Project Name	2022 Project Status	Project Type	Capital Cost
46	UMRWA	Upper Mokelumne Erosion and Water Quality Assessment and Restoration Plan	No Change	Planning	\$250,000
47	CAFT	South Fork Mokelumne River Watershed Program	Removed	Implementation	\$64,990
48	CPUD	Jeff Davis Water Treatment Plant Backwash Recycle Project	New Project	Planning and Implementation	\$2,000,000
49	CCWD	Middle Fork Pump Station Retrofit and Raw Water Pipeline Replacement Project – Phased	New Project	Implementation	\$3,920,000
50	AWA	Rehabilitation and Expansion of Reservoirs – Twin, Meadow, Upper & Lower Blue, and Upper & Lower Bear Lakes	New Project	Planning	\$150,000

**Appendix MAC IRWMP Projects
Project Review Process Results
January 2022**

#	General Project Information			Tier 1, Step 1 Screening			Tier 1, Step 2 Screening		Tier 2, Step 2 Prioritization												
	Entity	Project Name	Project Status	Total Goals	Total State-wide Priors.	Result	Total RMS	Result	Econ. Benefit	Goals Addressed	RMS Integrated	Technical Feasibility	Multi-Agency Benefits	Climate Change Adaptation Benefit	Climate Change Mitigation Benefit	DAC Benefits	Native American Tribal Benefits	No EJ Concerns	Impl. Risk	Best Project for Intended Purpose	Result
1	ARCD	Soil Health & Climate Resilient Agriculture Education Program	Planning/Initial Study	5	1	PASS	3	PASS	High	High	Medium	High	Low	Medium	High	Low	Low	High	High	High	Medium
4a	AWA	Amador Canal Water Conservation Project	Planning/Initial Study	9	7	PASS	14	PASS	High	High	High	High	Low	High	Medium	Medium	Medium	High	High	High	High
4b	AWA	Ione Canal Water Conservation Project	In Design	9	7	PASS	14	PASS	High	High	High	High	Low	High	Medium	Medium	Medium	High	High	High	High
7	AWA	Surface Storage Feasibility Study	Planning/Initial Study	7	7	PASS	10	PASS	High	High	High	High	High	High	Medium	Medium	Medium	High	Medium	Medium	High
12	AWA	Camanche Area Regional Water Supply Project Phase II (CARWSP II)	Conceptual Design	5	7	PASS	10	PASS	High	High	High	High	Medium	Low	Low	High	Low	High	High	High	Medium
13	AWA	Ione Treatment Relocation Planning Study	Conceptual Design	4	7	PASS	7	PASS	High	Medium	High	High	High	Low	Low	Medium	Low	High	High	High	Medium
14	AWA	Upper-Lower Water System Reliability Intertie Project	Planning/Initial Study	3	3	PASS	3	PASS	High	Medium	Medium	High	High	High	Low	Medium	Medium	High	Medium	High	Medium
15	AWA	Lake Camanche Transmission Main Planning Project	Planning/Initial Study and In Environmental	6	7	PASS	6	PASS	High	High	High	High	Medium	Low	Medium	Medium	Low	High	High	High	Medium
18	AWA	Mt. Crossman Tanks Replacement and Consolidation Project	Conceptual Design	7	4	PASS	3	PASS	High	High	Medium	High	High	High	High	High	Low	High	High	High	High
19	AWA	Ione Clearwell Cover Hypalon Replacement Project	In Design	4	4	PASS	3	PASS	High	Medium	Medium	High	High	Medium	Medium	Medium	Medium	High	High	High	High
20	AWA	Lake Camanche Water Service Replacement – Phase IV	Design Complete	6	6	PASS	9	PASS	High	High	High	High	Low	High	Low	High	Low	High	High	High	High
21	AWA	Amador Water Agency Treated Water Supply Study	Planning/Initial Study	8	7	PASS	14	PASS	High	High	High	High	Low	Medium	Low	High	Medium	High	High	High	High
22	AWA	Community Leachfield Groundwater Nitrate Study	Planning/Initial Study	8	7	PASS	13	PASS	High	High	High	High	Low	High	Medium	Medium	Low	High	High	High	High
23	AWA	Martell Wastewater Lift Station Reduction Project	Planning/Initial Study	6	6	PASS	7	PASS	High	High	High	High	Low	Low	High	Medium	Low	High	High	High	Medium
24	AWA	Regional Wastewater Treatment and Recycling Project	Conceptual Design	8	7	PASS	16	PASS	High	High	High	High	High	High	Medium	Medium	Low	High	High	High	High
25	AWA	Lake Camanche Regional Wastewater System	Conceptual Design	8	7	PASS	14	PASS	High	High	High	High	Medium	High	Low	High	Low	High	High	High	High
26a	AWA	Tanner Water Treatment Plant Tanner Filter Media Replacement Project	In Design	6	5	PASS	7	PASS	High	High	High	High	High	Medium	Low	High	Medium	High	High	High	High
26b	AWA	Tanner Water Treatment Plant PLC Upgrade Project	In Design	6	7	PASS	7	PASS	High	High	High	High	High	Medium	Low	High	Medium	High	High	High	High
30	AWA	New York Ranch Reservoir Conservation and Management	Planning/Initial Study	7	8	PASS	16	PASS	High	High	High	High	Medium	Medium	Low	Medium	Medium	High	Medium	High	Medium
32	CCWD	Sheep Ranch Drinking Water Treatment & Distribution Compliance Project	Design Complete	3	3	PASS	12	PASS	Medium	Medium	High	High	Low	High	Low	High	Low	High	High	High	Medium
33	CCWD	West Point Automated Meter Reading Project	Conceptual Design	4	2	PASS	2	PASS	High	Medium	Low	High	Low	Low	Medium	High	Low	High	High	High	Medium
34	CCWD	West Point Water Treatment Plant Drinking Water Compliance Project	Design Complete	3	1	PASS	3	PASS	High	Medium	Medium	High	Low	Medium	Low	High	High	High	High	High	Medium
35	CCWD	Wilson Dam Meadow Restoration and Habitat Enhancement Plan	Planning/Initial Study	5	3	PASS	3	PASS	High	High	Medium	High	Low	High	Low	High	Low	High	High	High	Medium
36	Foothill	Amador Household Water Efficiency Project	Conceptual Design	6	3	PASS	3	PASS	High	High	Medium	High	Low	High	High	Medium	Medium	High	High	High	High
37	Foothill	Mokelumne High Country Meadow Restoration	Planning/Initial Study	8	3	PASS	8	PASS	High	High	High	High	Medium	Medium	High	Medium	Medium	High	High	High	High
38	Foothill	Riparian Noxious Weed Abatement Plan	Planning/Initial Study	3	1	PASS	6	PASS	High	Medium	High	High	Medium	High	Low	Medium	Medium	High	High	High	High
40	Foothill	Upper Mokelumne Watershed Landowner Guide	Planning/Initial Study	7	1	PASS	11	PASS	High	High	High	High	High	Medium	Medium	Medium	Medium	High	High	High	High
41	Jackson	Jackson Creek Sewer Line Relocation - Conceptual Design/Feasibility Study	Planning/Initial Study	2	3	PASS	3	PASS	Medium	Medium	Medium	High	Low	Low	Low	High	Low	High	High	High	Medium
42	UMRWA	Hemlock Forest Restoration Water Yield Project Study	Environmental Review Complete	5	3	PASS	3	PASS	High	High	Medium	High	High	High	Low	Medium	Medium	High	High	High	High
44	UMRWA	North Fork Mokelumne Watershed Erosion Control & Water Quality Restoration Plan	Planning/Initial Study	4	3	PASS	6	PASS	High	Medium	High	High	High	Low	Low	Medium	Medium	High	High	High	Medium
45	UMRWA	North Fork Mokelumne Watershed Erosion Control & Water Quality Restoration Project	Planning/Initial Study	4	3	PASS	6	PASS	Medium	Medium	High	High	High	Low	Low	Medium	Medium	High	High	High	Medium
46	UMRWA	Upper Mokelumne Erosion and Water Quality Assessment and Restoration Plan	Planning/Initial Study and Conceptual Design	5	4	PASS	10	PASS	High	High	High	High	High	Medium	Low	Medium	Medium	High	High	High	High
48	CPUD	Jeff Davis Water Treatment Plant Backwash Recycle Project	Planning/Initial Study	8	8	PASS	7	PASS	High	High	High	High	Medium	High	Medium	Medium	Low	High	Medium	High	High
49	CCWD	Middle Fork Pump Station Retrofit and Raw Water Pipeline Replacement Project - Phased	Conceptual Design (Phase 3) and Design Complete (Phase 1 & 2)	5	3	PASS	4	PASS	High	High	Medium	High	Low	High	Low	Medium	Medium	High	Medium	High	Medium
50	AWA	Rehabilitation and Expansion of Reservoirs - Twin, Meadow, Upper & Lower Blue, and Upper & Lower Bear Lakes	Planning/Initial Study	6	6	PASS	4	PASS	High	High	Medium	High	High	High	Low	Medium	Medium	High	Medium	High	High