

SARCCUP Project Management Services - Consultant Support

Ian Achimore, Senior Watershed Manager

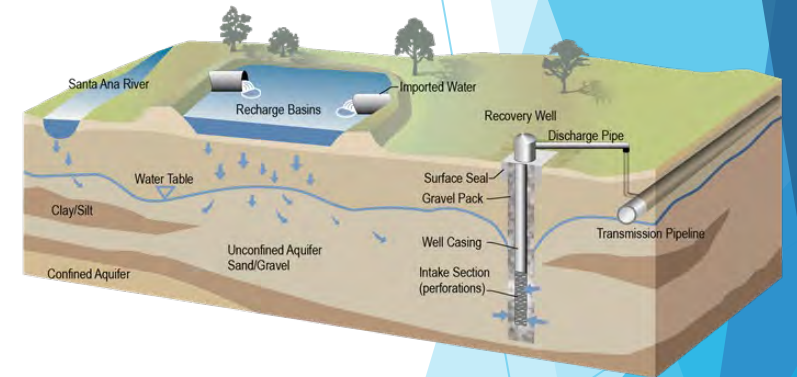
PA 23 Committee | June 2, 2020

Item No. 4.A.



Brief Overview of SARCCUP

- ▶ Five-year timeline in original Grant Agreement
 - ▶ PA 23 approved schedule increase from September 2021 to 2023 (total of 7.25 years).
- ▶ Timeline includes task completion for
 - ▶ Conjunctive use modeling,
 - ▶ Land acquisition
 - ▶ Engineering,
 - ▶ CEQA and permitting,
 - ▶ Construction
- ▶ Five project proponents (SAWPA member agencies)
- ▶ Support services needed to assist in project management



Project Management RFP

- ▶ Woodard and Curran (W&C) selected through a 2016 Request for Proposals (RFP) coordinated by SAWPA with member agencies
- ▶ Their proposal provided contract amounts per fiscal year

A	B	C
Task Order No.	Fiscal Year Ending	W&C 2016 RFP Proposal
1	2017	\$ 310,429
2	2018	\$ 260,515
3	2019	\$ 240,927
4	2020	\$ 257,114
5	2021	\$ 215,505
Total		\$ 1,284,490

W&C's Ongoing SARCCUP Project Management

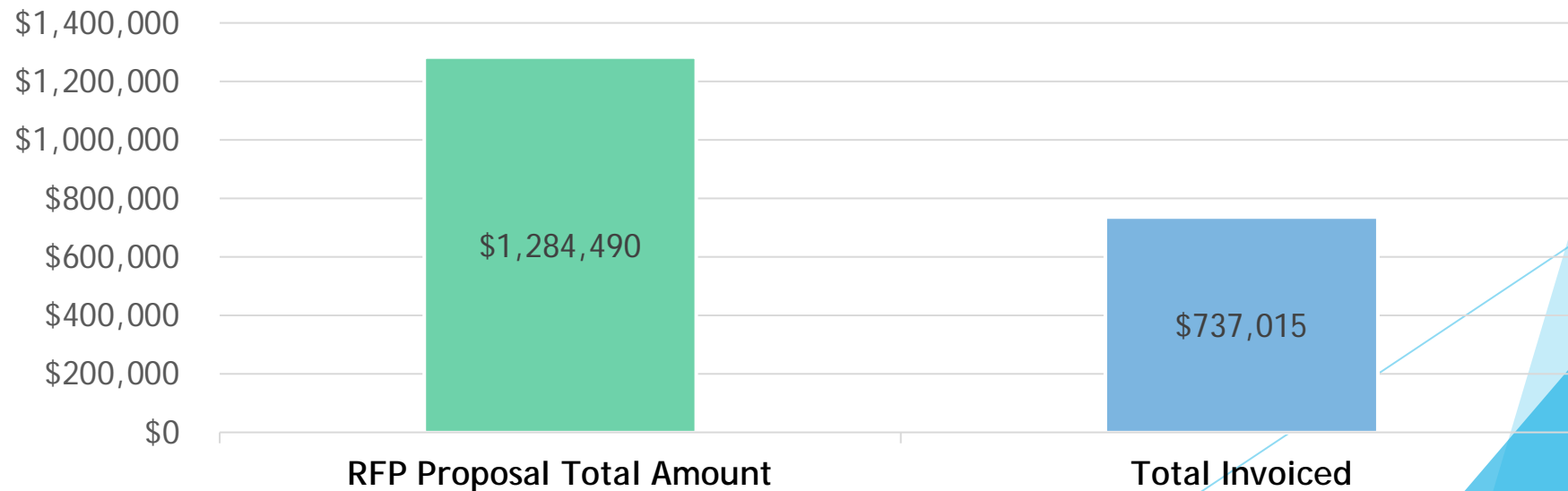
- ▶ Scope Includes:
 - ▶ Web-based database to track and compile quarterly progress reports and invoices that are required by the Grant Agreement,
 - ▶ Develop a grant-required project monitoring plan,
 - ▶ Lead bi-monthly coordination meetings.
 - ▶ Coordinating edits to the grant agreement amendment.
 - ▶ Facilitating finalization of the detailed SARCCUP budget.

Required Reporting



Status of Funding

Task Order No.	Fiscal Year Ending	W&C 2016 RFP Proposal	Invoiced As Of Feb 29, 2020
1	2017	\$310,429	\$307,210
2	2018	\$260,515	\$140,885
3	2019	\$240,927	\$181,953
4	2020	\$257,114	\$106,967
5	2021	\$215,505	Not Applicable
Total		\$1,284,490	\$737,015



Funding Going Forward

A	B	C	D	E	F
Task Order No.	Fiscal Year Ending	W&C 2016 RFP Proposal	Estimates for Extended Schedule	Modified Contract Amount	Invoiced As Of Feb 29, 2020
1	2017	\$310,429		Not applicable	\$307,210
2	2018	\$260,515			\$140,885
3	2019	\$240,927	Not Applicable	\$224,485	\$181,953
4	2020	\$257,114		\$229,046	\$106,967
5	2021	\$215,505		\$225,005	
6	2022		\$200,000		Not Applicable
7	2023	Not Included	\$200,000	Not Applicable	
8	2024		\$100,000		
Total		\$1,284,490	\$500,000	\$678,531	\$737,015

Proposed Amount

Major Activities for FYE 2021

- ▶ Woodard and Curran will make modifications to the SARCCUP grant deliverable database once the Department of Water Resources approves Amendment No. 2.
- ▶ W&C will coordinate the work of the Project Monitoring Plans that will have to be amended once DWR approves Amendment No. 2.
- ▶ W&C will track construction schedules as the SAWPA member agencies' projects move into the implementation phase.
- ▶ W&C and the SARCCUP team will submit quarterly progress reports and invoices, which will have larger dollar amounts as we move into the construction phase.

Recommendation



It is recommended that the Committee authorize the approval of Task Order No. 5 in the amount not-to-exceed \$225,005 with Woodard & Curran (formerly named RMC Water & Environment Inc.) for project management services to support SARCCUP.



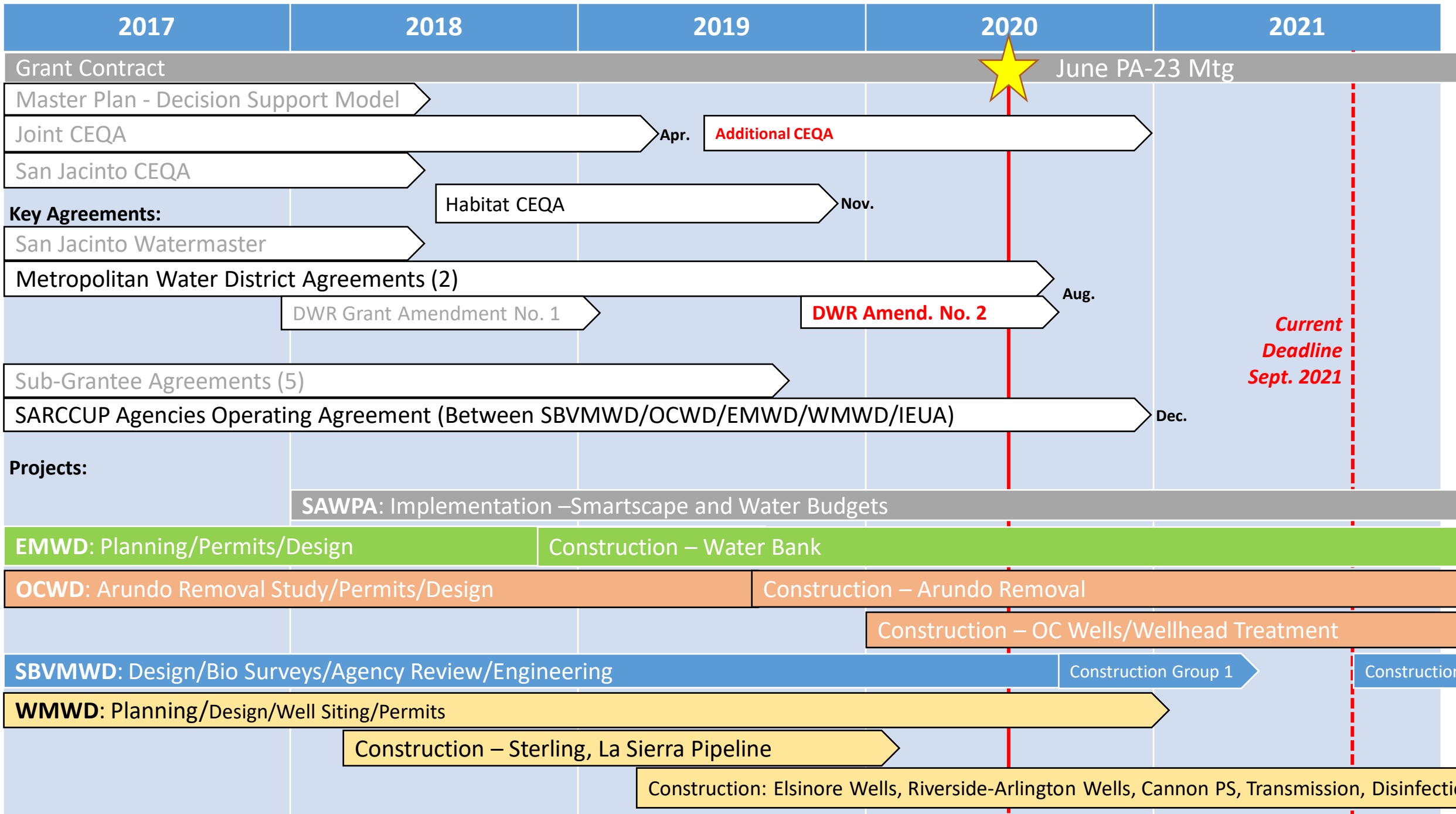
SARCCUP Schedule

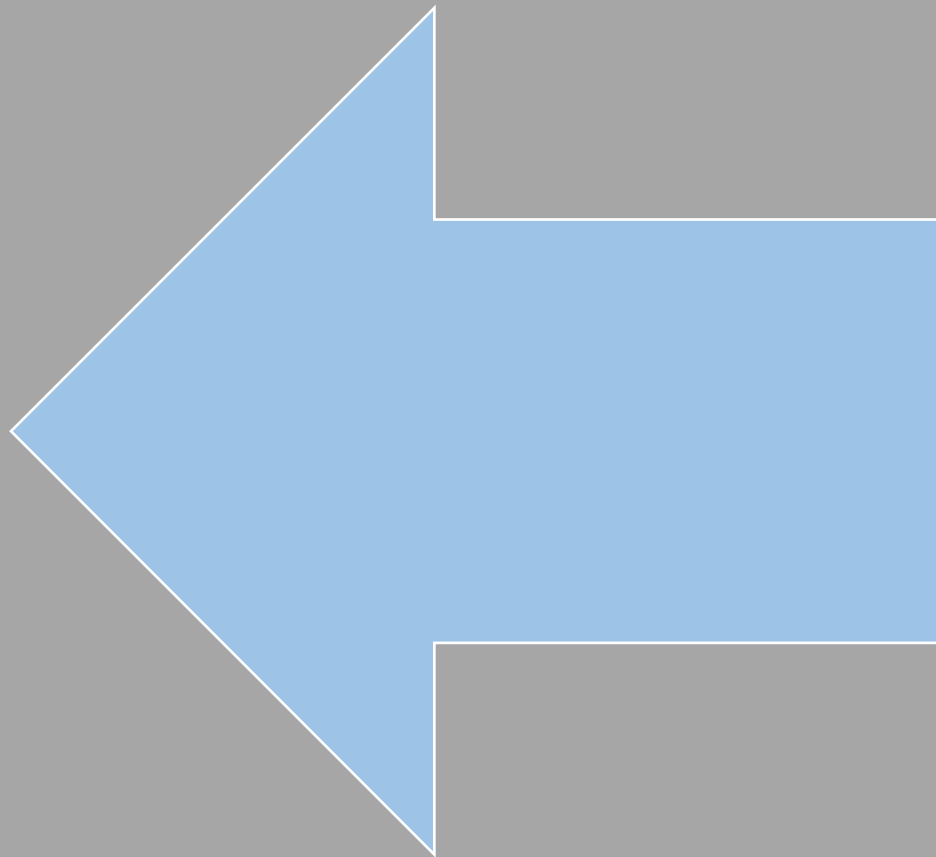
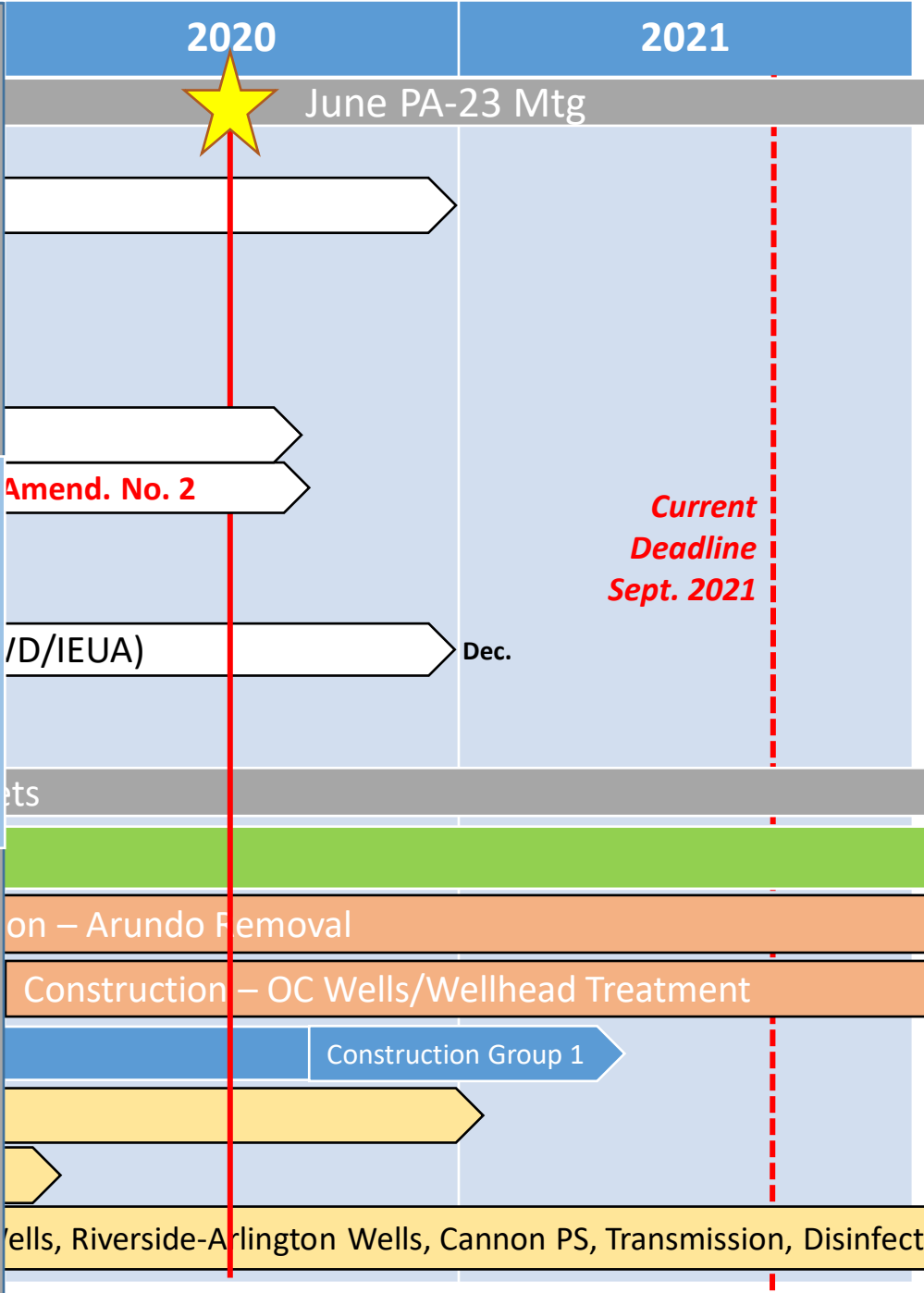
Brian Dietrick, Woodard & Curran

PA 23 Committee | June 2, 2020

Item No. 4.B.







2020

2021

June PA-23 Mtg

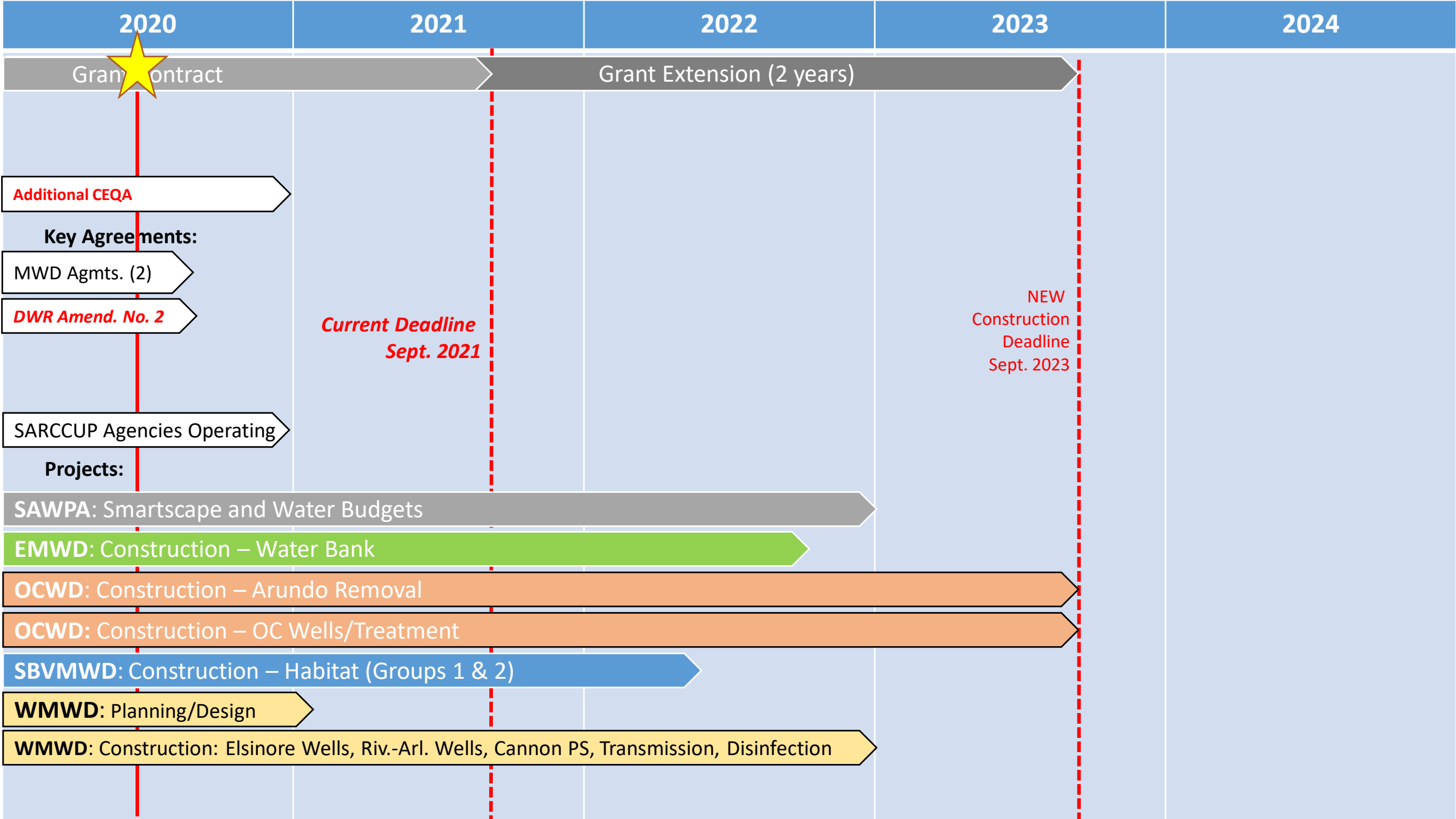
Amend. No. 2

D/IEUA

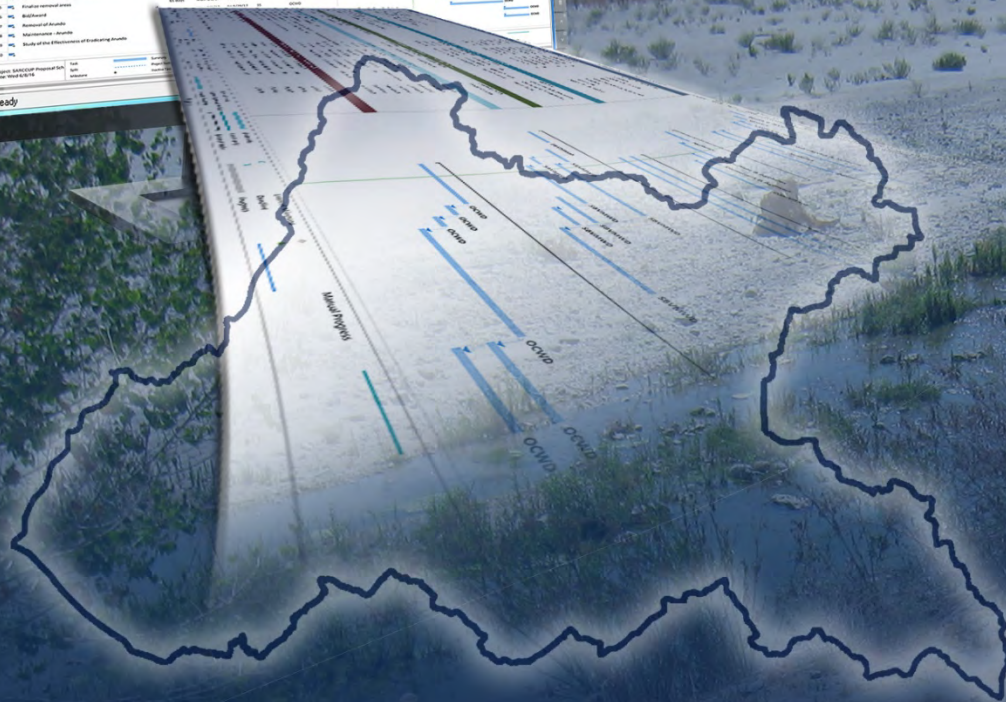
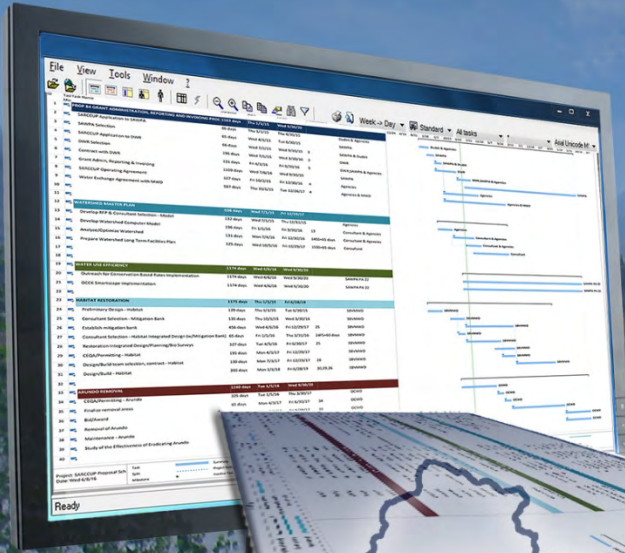
Dec.

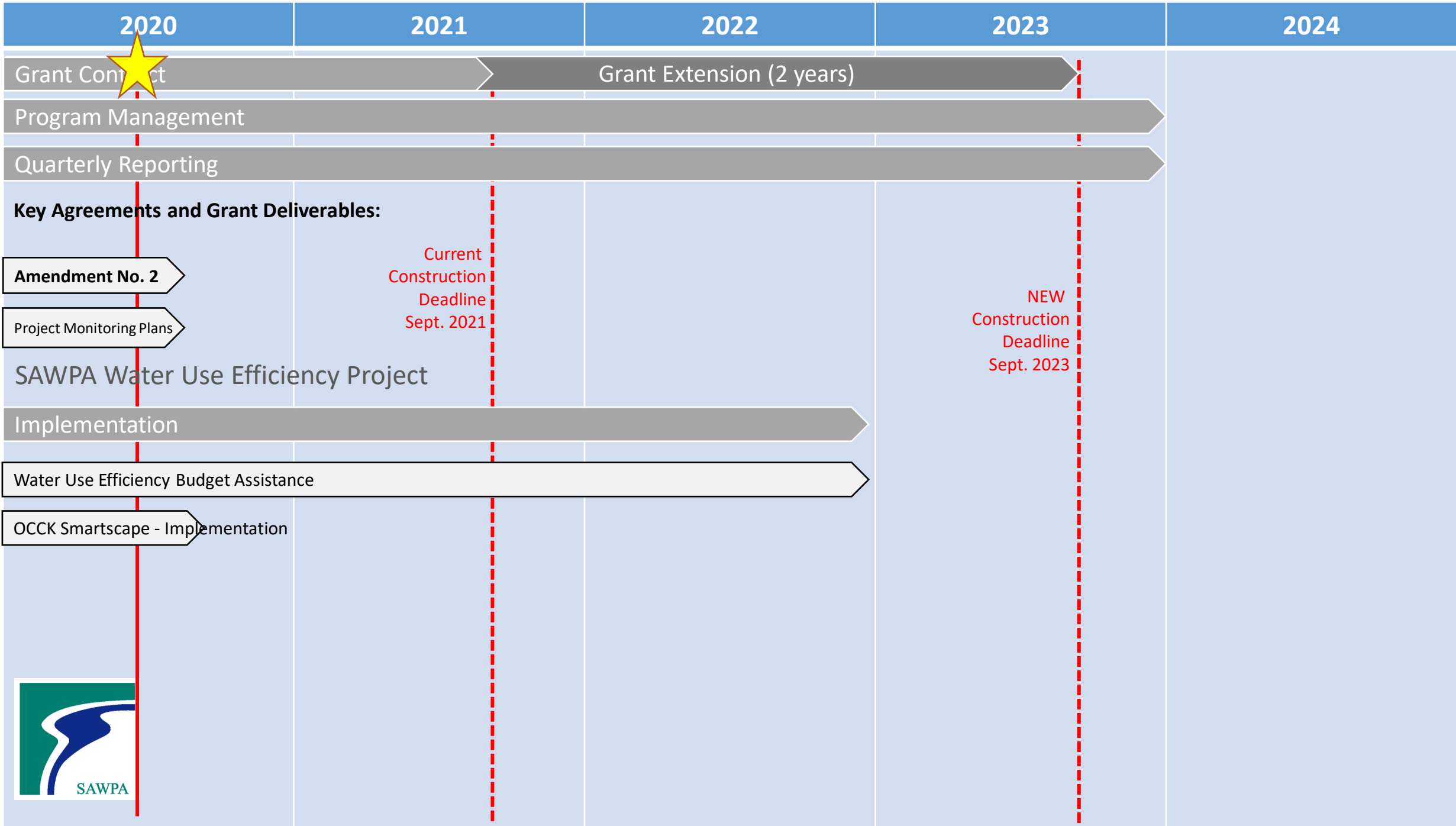
Current Deadline Sept. 2021

Wells, Riverside-Arlington Wells, Cannon PS, Transmission, Disinfecti



2020-2023 Agency Slides





Amendment No. 2

Project Monitoring Plans

SAWPA Water Use Efficiency Project

Implementation

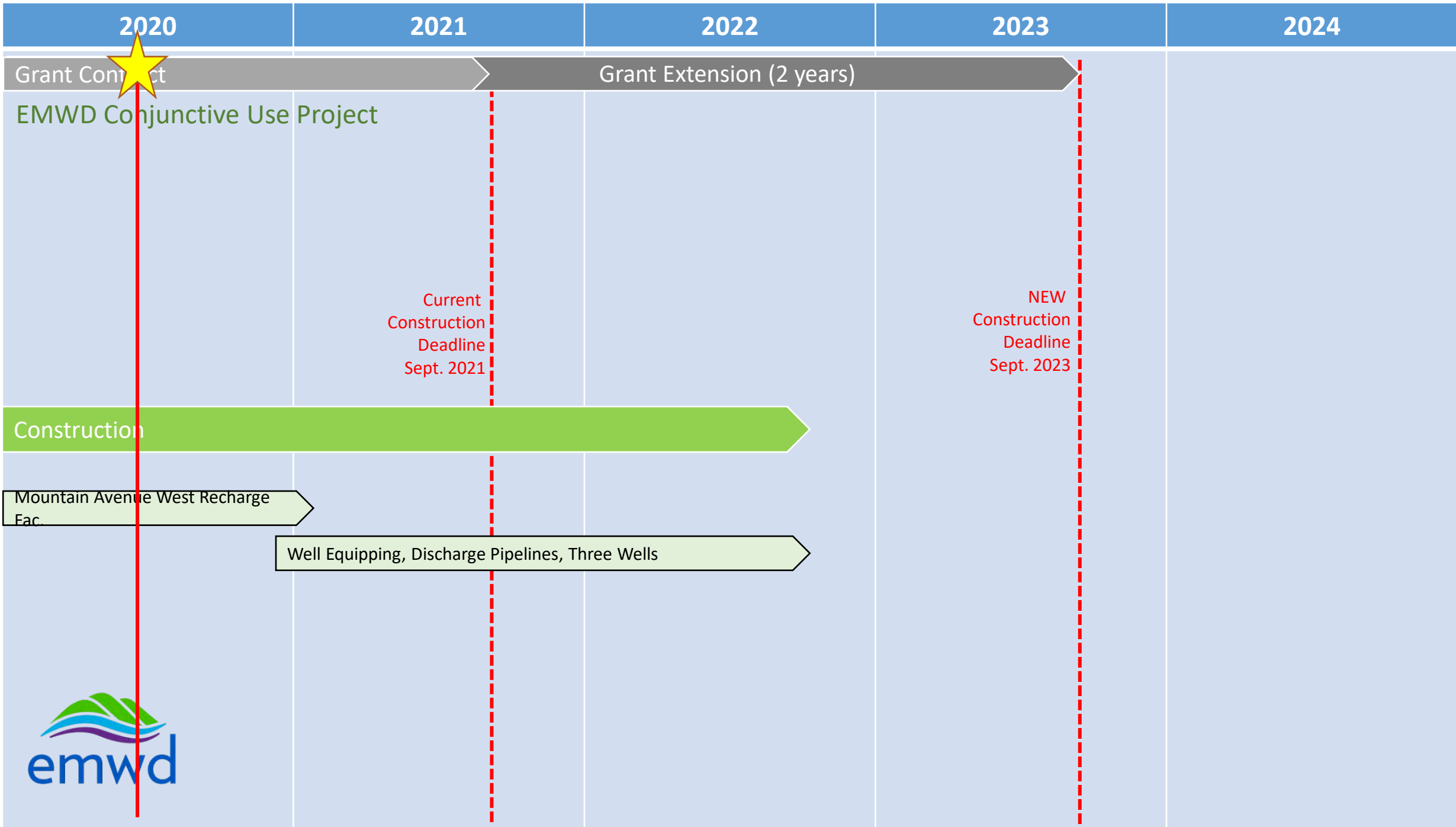
Water Use Efficiency Budget Assistance

OCCK Smartscape - Implementation

Current
Construction
Deadline
Sept. 2021

NEW
Construction
Deadline
Sept. 2023





2020	2021	2022	2023	2024
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Grant Contract Grant Extension (2 years)

OCWD Arundo Removal Project

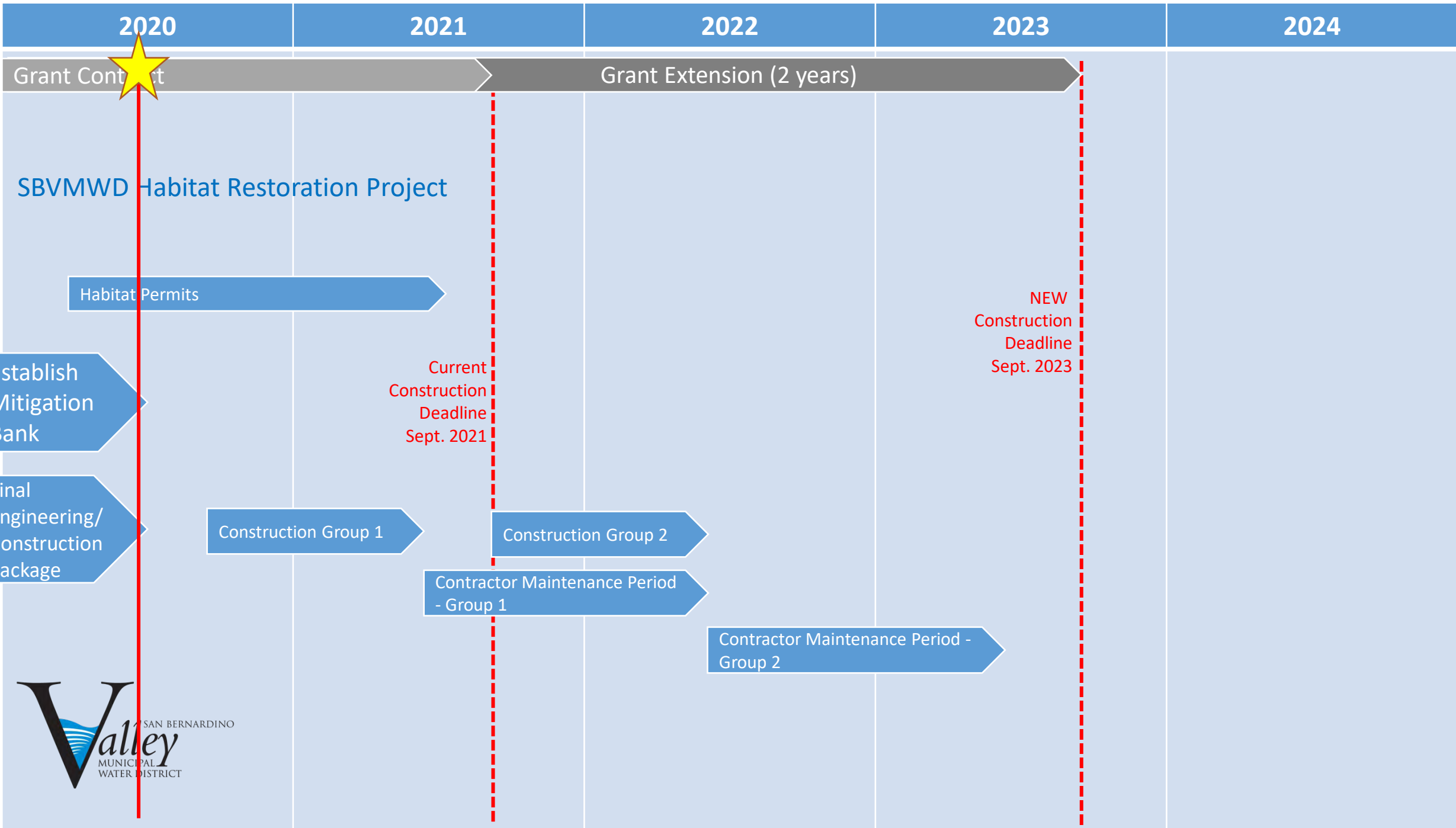
Current Construction Deadline Sept. 2021

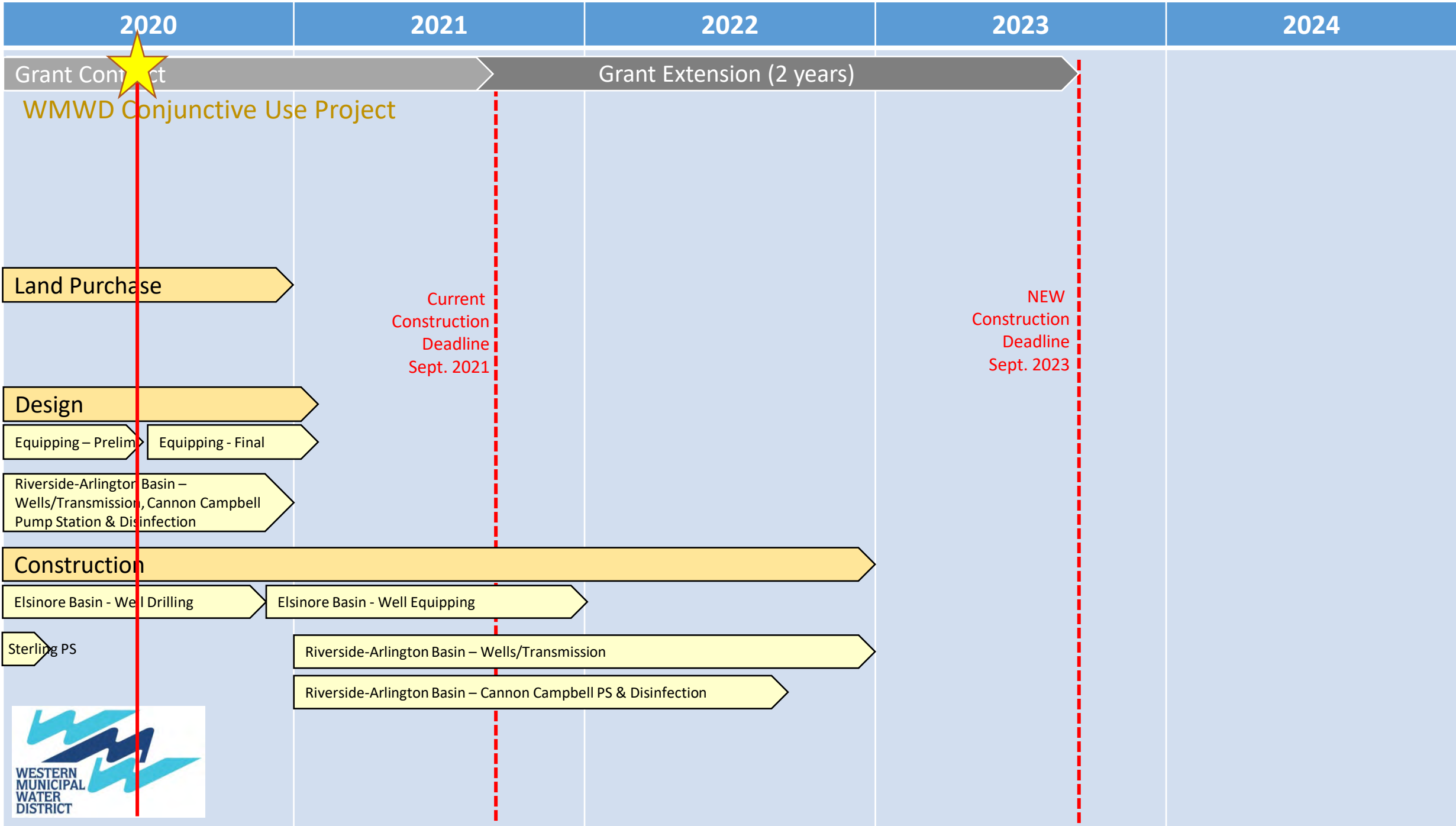
NEW Construction Deadline Sept. 2023

Construction -- Arundo Removal

Construction -- OC Wells/Wellhead Treatment









SARCCUP Project Updates

SAWPA Member Agencies, SAWPA
PA 23 Committee | June 2, 2020
Item No. 4.C.



EMWD SARCCUP Construction Progress













WMWD SARCCUP Construction Progress



Sterling Pump Station and La Sierra Pipeline



Cannon Campbell Pump Station

Western Municipal Water District

REQUEST FOR PROPOSAL:

New Pump Station and Interconnection with Riverside Public Utilities (RPU)



SUBMIT PROPOSAL TO:

Western Municipal Water District
 Attn: Ronald Palacios, P.E.
 14205 Meridian Parkway
 Riverside, CA 92518

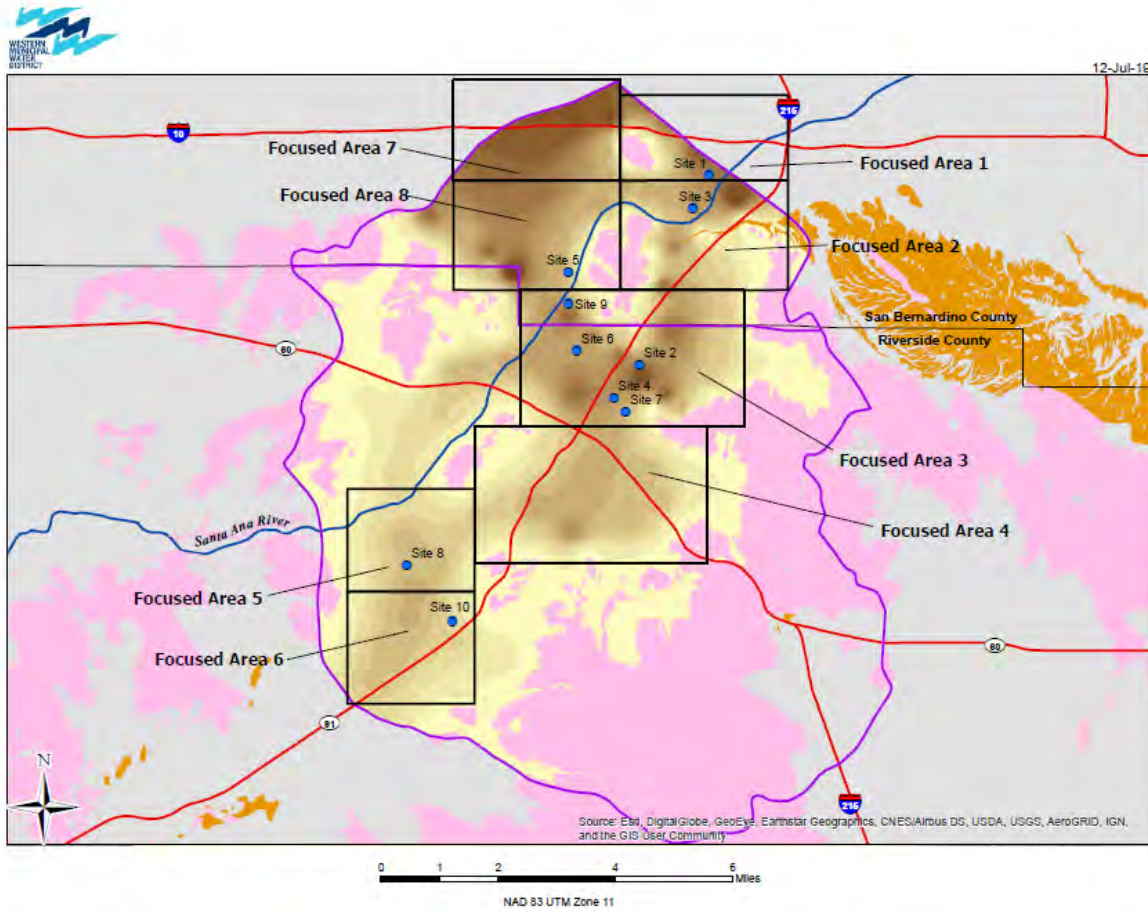
Event	Target Date
RFP Release Date	December 2019
Deadline to Submit Written Questions	December 2019
Proposal Deadline – Proposal DUE BY 2:00 p.m.	January 2020



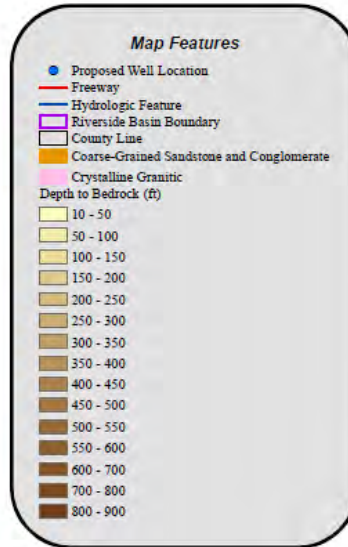
Riverside-Arlington Wells

Identification of Potential Well Sites in the Riverside Groundwater Basin

July 12, 2019



Identification of Potential Well Sites in the Riverside Groundwater Basin



Riverside Basin Boundary as defined by the Western-San Bernardino Watermaster, 2016-2017.

Well data from CASGEM, DWR Driller's Logs, and from Cross Sections from Riverside-Arlington Groundwater Flow Model (June 2011).



Chino Basin Storage - JCSD

- ▶ Application filed and approved 11/21/19 by Chino Basin Watermaster
- ▶ 7,000 AF



Form 2a - Application for Supplemental Water Recharge

Applicant Information and Recharge Request			
Person	Jurupa Community Services District	Date Requested	9/11/19
Contact (individual)	Chris Berch	Date Approved	
Street Address	11201 Harrel Street	Proposed Period of Time Covered by Recharge Application (mm/yyyy to mm/yyyy)	10/1/19-12/31/29
City	Jurupa Valley	Requested Total Amount of Recharge Over the Application Period (AF)	7,000
State	CA	Approved Total Amount of Recharge Over the Application Period (AF)	
Zip Code	91752		
Telephone	951-727-3512		
Fax			
Email	cberch@jcsd.us		

Source(s) of Supply (check box and provide supporting information)	
<input checked="" type="checkbox"/>	State Water Project
<input type="checkbox"/>	Colorado River Aqueduct
<input type="checkbox"/>	Local Supplemental (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)
<input type="checkbox"/>	Recycled Water (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)
<input type="checkbox"/>	Other (identify source and attach source water quality characterization including TDS and TN; use as many sheets as necessary)

Method of Recharge (check box and provide supporting information)	
<input checked="" type="checkbox"/>	Surface Spreading
	Recharge Basin Name(s) MZ-3 Basins preferred (as determined by CBWM)
	Expected Period of Recharge (mm/dd to mm/dd) As excess SBVMWD Table A water is available
	Depth to Water in Recharge Area (ft-bgs) As space is available
	Water Quality in Recharge Area (attach characterization) As determined by CBWM
<input type="checkbox"/>	Injection
	Well Names and Locations (attach well completion report if not on file with the Watermaster)
	Expected Period of Recharge (mm/dd to mm/dd)
	Depth to Water in Recharge Area (ft-bgs)
	Water Quality in Recharge Area (attach characterization)

SBVMWD SARCCUP Project Implementation Progress



Tributary Restoration Projects

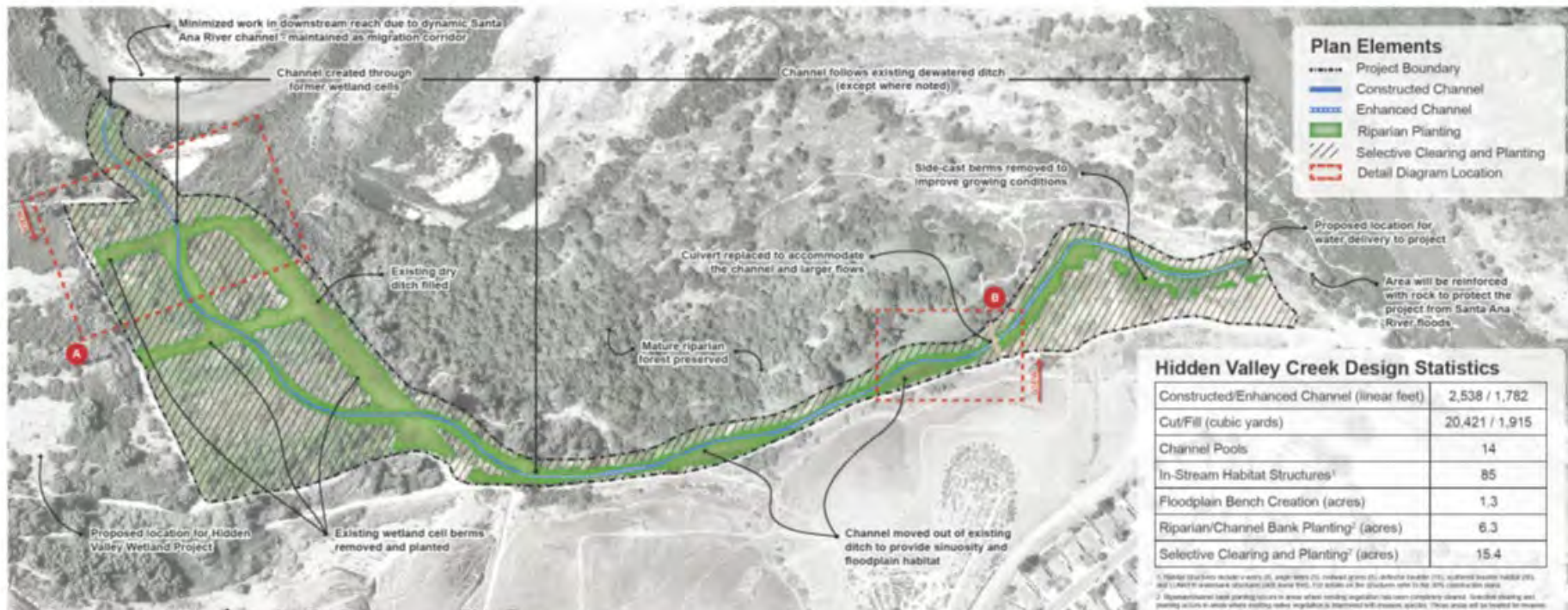
- ▶ Phased Implementation:
 - ▶ Phase 1: Hidden Valley and Anza Creeks
 - ▶ 60% Designs
 - ▶ Est. Start of Construction: Fall 2020
 - ▶ Phase 2: Lower Hole and Old Ranch Creeks
 - ▶ 30% Designs
 - ▶ Est. Start of Construction: Fall 2021
- ▶ Seed and propagule collection for the purpose of propagating plants for restoration has begun
- ▶ Recent Fires
 - ▶ The “46 Fire” on Oct 31, 2019: Burned portions of Old Ranch and Anza Creeks sites
 - ▶ Fire on Feb 1, 2020: Burned Old Ranch Creek
 - ▶ Other fires have burned portions of Lower Hole Creek

Anza Creek Site in need of restoration (Nov 29, 2018)



Old Ranch Creek Site after recent fire (Feb 2, 2020)

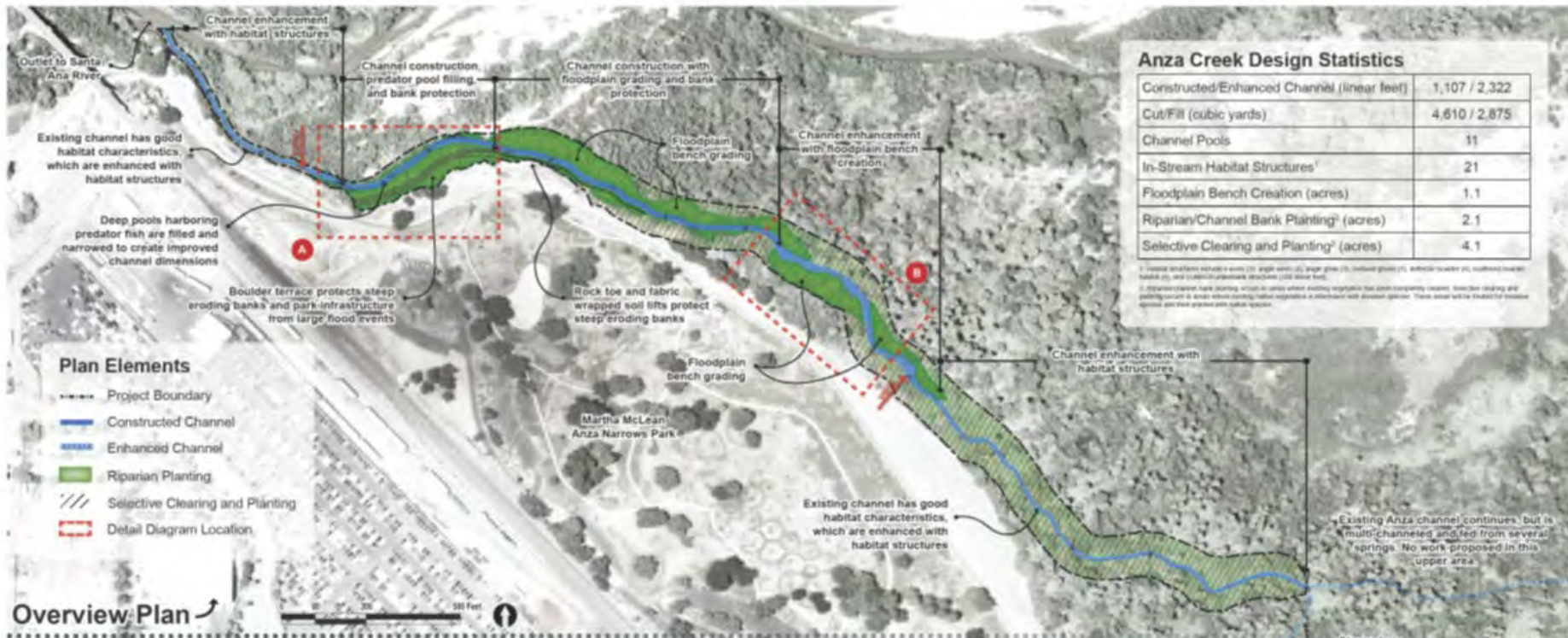




Overview Plan
Detail Diagrams



Hidden Valley Creek Restoration
San Bernardino Valley Municipal Water District



Anza Creek Design Statistics

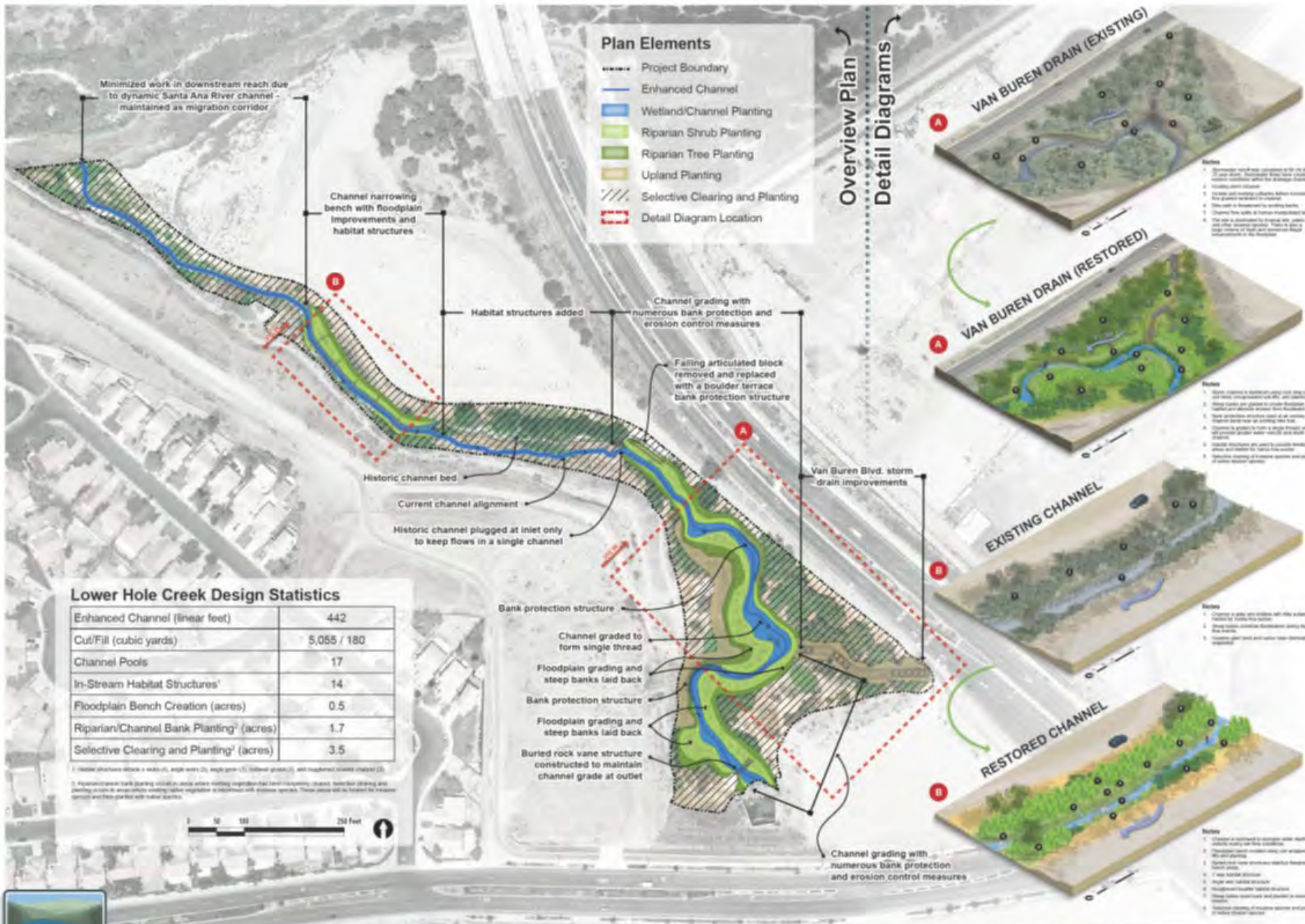
Constructed/Enhanced Channel (linear feet)	1,107 / 2,322
Cut/Fill (cubic yards)	4,610 / 2,875
Channel Pools	11
In-Stream Habitat Structures ¹	21
Floodplain Bench Creation (acres)	1.1
Riparian/Channel Bank Planting ² (acres)	2.1
Selective Clearing and Planting ³ (acres)	4.1

1. Large boulder (100-200 lbs), small boulder (25-100 lbs), log (10-20 ft), brush pile (5-10 ft), rock toe (2-4 ft), fabric wrapped soil lift (2-4 ft), rock toe and fabric wrapped soil lift (2-4 ft).

2. Riparian/Channel Bank Planting includes all other native species including but not limited to: ceanothos, sycamore, black oak, canyon live oak, and yellow pine. Anza Narrows riparian habitat is enhanced with stream species. These areas will include riparian species and tree planted with native species.

Overview Plan
Detail Diagrams



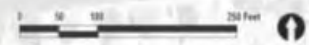


Lower Hole Creek Design Statistics

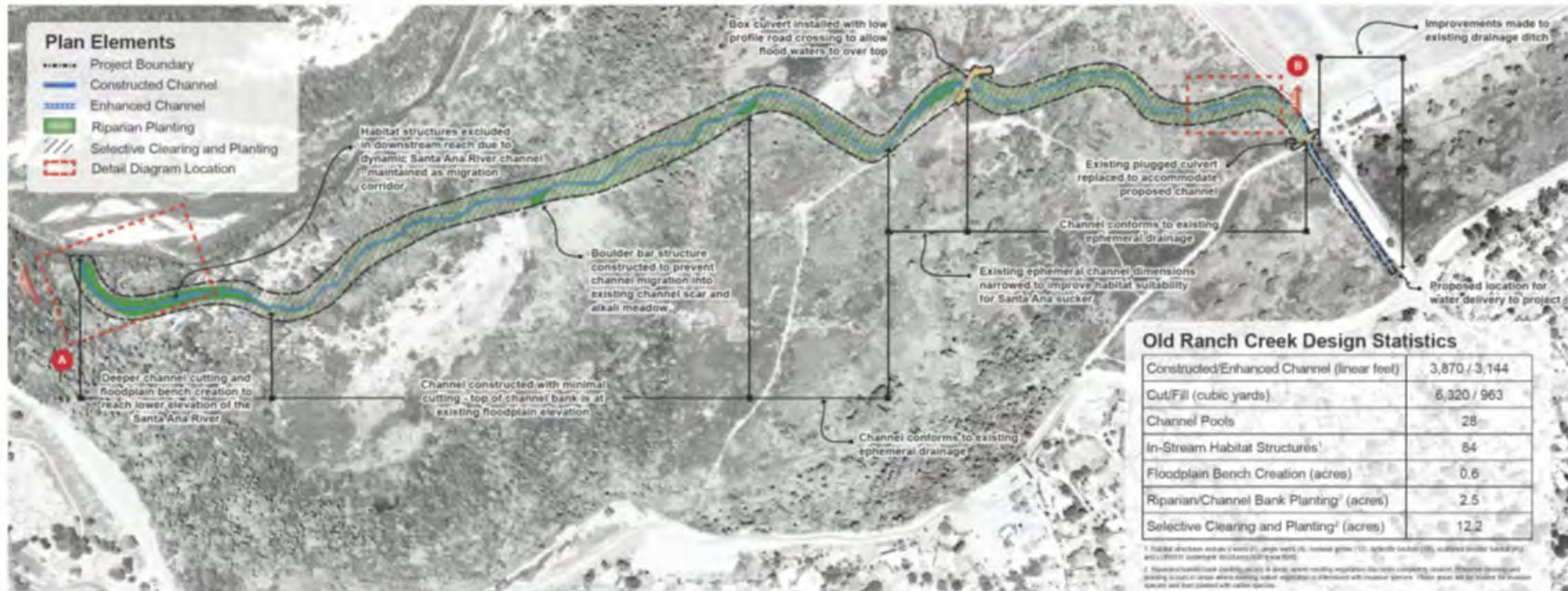
Enhanced Channel (linear feet)	442
Cut/Fill (cubic yards)	5,065 / 180
Channel Pools	17
In-Stream Habitat Structures ¹	14
Floodplain Bench Creation (acres)	0.5
Riparian/Channel Bank Planting ² (acres)	1.7
Selective Clearing and Planting ² (acres)	3.5

¹ Habitat structures include: 1. Weir (1), single weir (2), single gate (3), boulder structure (4), and submerged structure (5).

² Riparian bank planting includes areas where existing vegetation that have low canopy density, scattered shrubs and plants in order to areas where existing native vegetation is dominated with dense species. These areas will be treated to reduce density and then planted with native species.



Lower Hole Creek Restoration
San Bernardino Valley Municipal Water District



Old Ranch Creek Design Statistics

Constructed/Enhanced Channel (linear feet)	3,870 / 3,144
Cut/Fill (cubic yards)	6,320 / 963
Channel Pools	28
In-Stream Habitat Structures ¹	84
Floodplain Bench Creation (acres)	0.6
Riparian/Channel Bank Planting ² (acres)	2.5
Selective Clearing and Planting ² (acres)	12.2

¹ Habitat structure volumes (m³) (1) large wood (16), medium wood (15), small wood (16); (2) boulder (400), riparian habitat (20) and other structures (10,000) (total 10,000) (3) log (100)

² Riparian channel bank planting (acres) in this table includes riparian habitat including channel channel planting and grading in areas where existing habitat vegetation is removed with riparian species. These areas are for native SR species and their associated riparian species.

Overview Plan

Detail Diagrams



Old Ranch Creek Restoration

San Bernardino Valley Municipal Water District

SAWPA SARCCUP Project Implementation



Smartscape Spending to Date (March 2020)

Agency	EMWD	IEUA	SBMVWD	WMWD	Total
Funding Allocation	\$ 96,509	\$ 96,509	\$ 96,509	\$ 96,509	\$ 386,034
Total Invoiced	\$ 96,875	\$ 96,349	\$ 89,025	\$ 68,900	\$ 351,149
Remaining	\$ (366)	\$ 160	\$ 7,484	\$ 27,609	\$ 34,885

**91%
Implemented**

Examples of Smartscape Tasks Implemented

Irrigation Improvements - IEUA

Landscape Designs - WMWD

