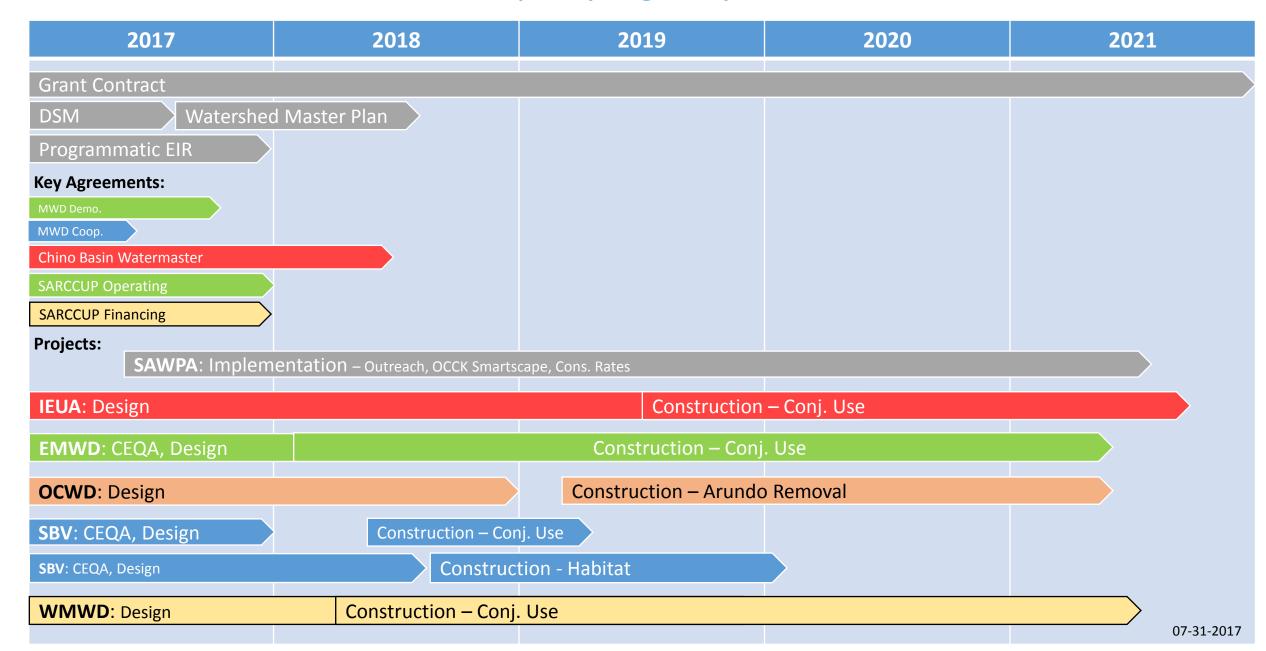
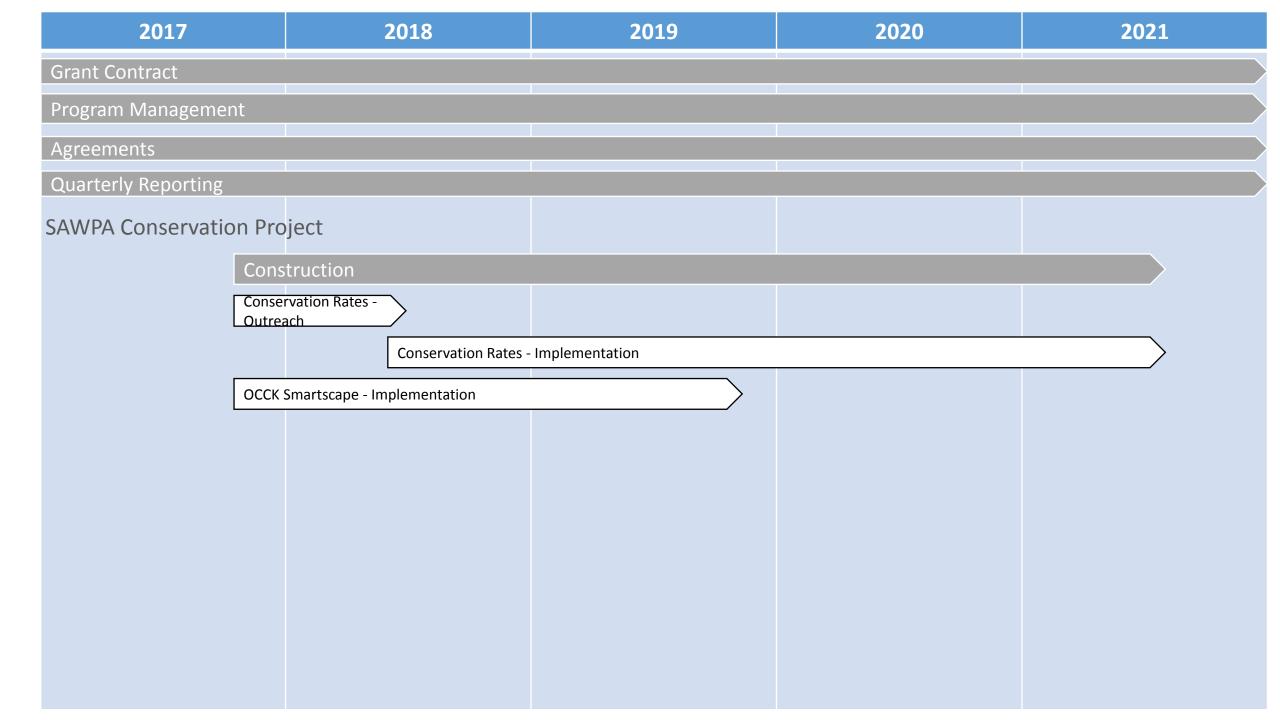
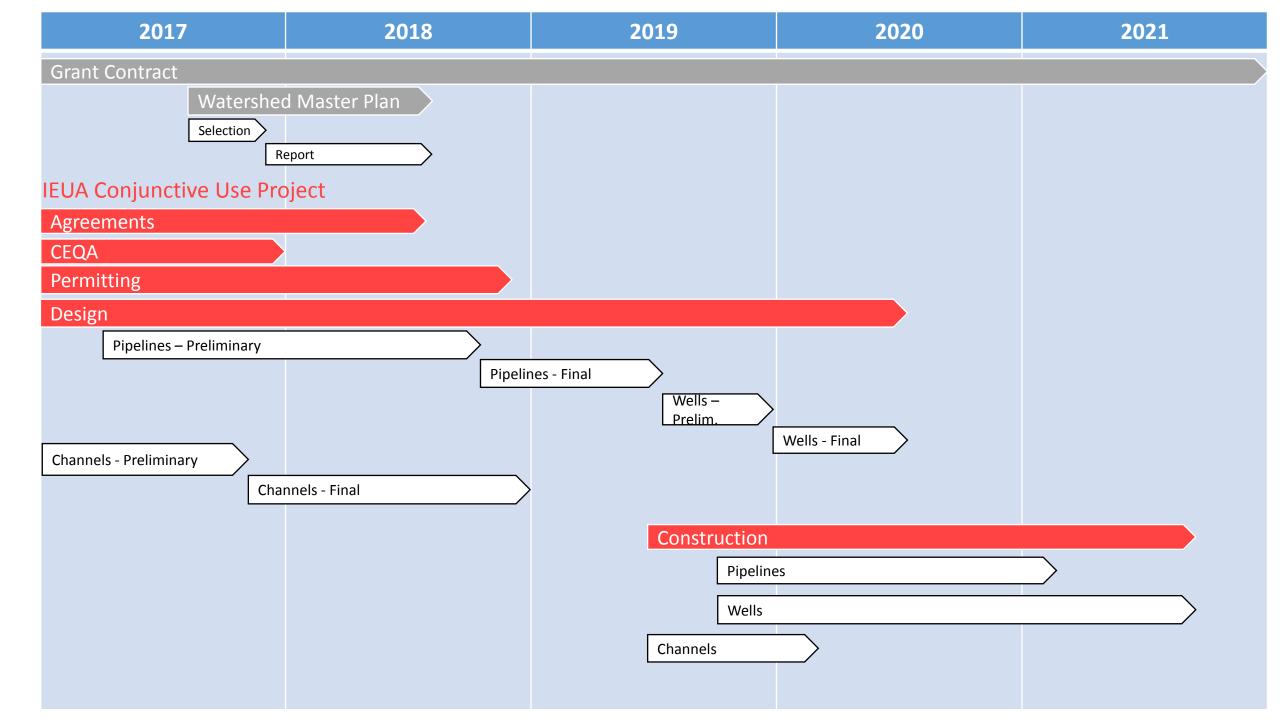


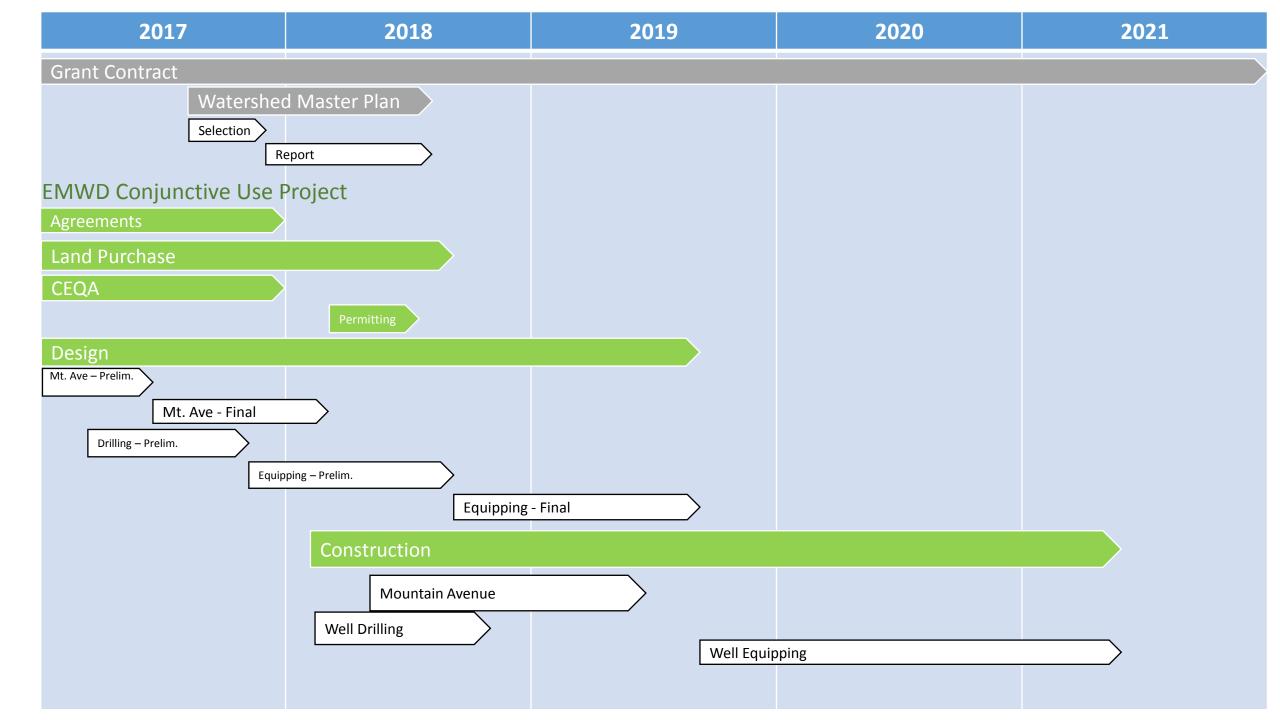


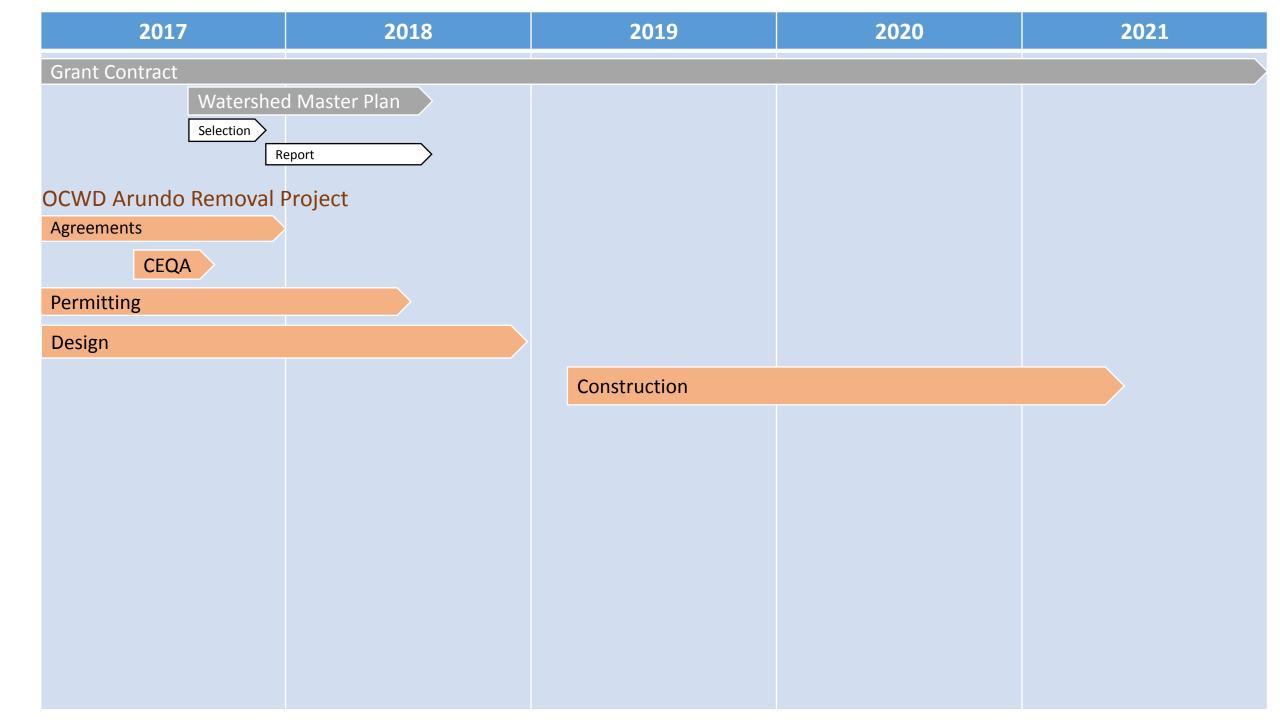
### SARCCUP Schedule Roll-Up (By Agency)

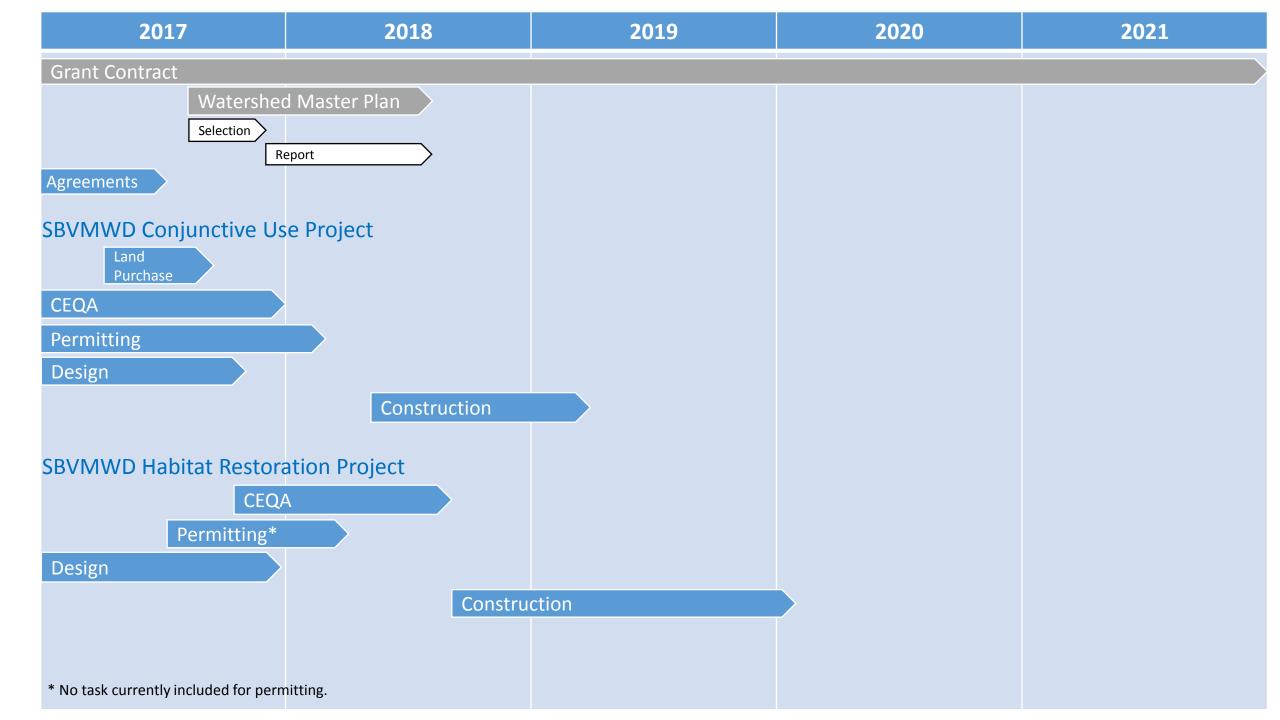


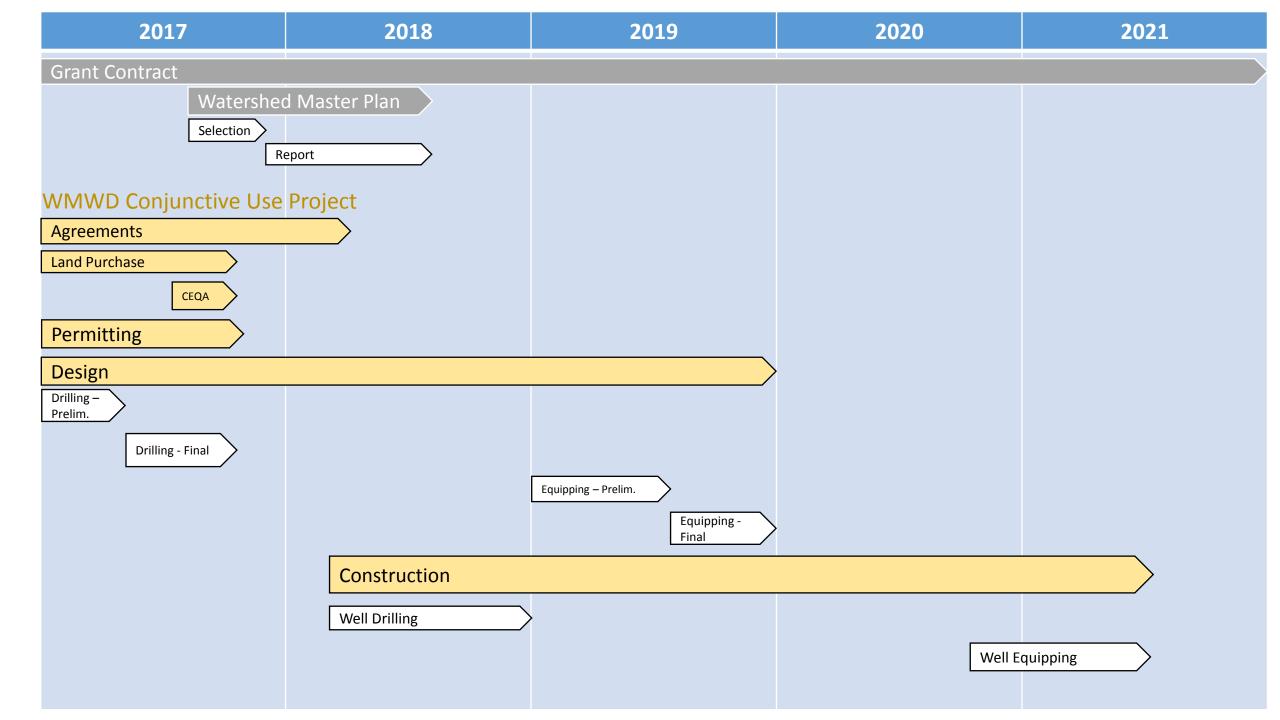








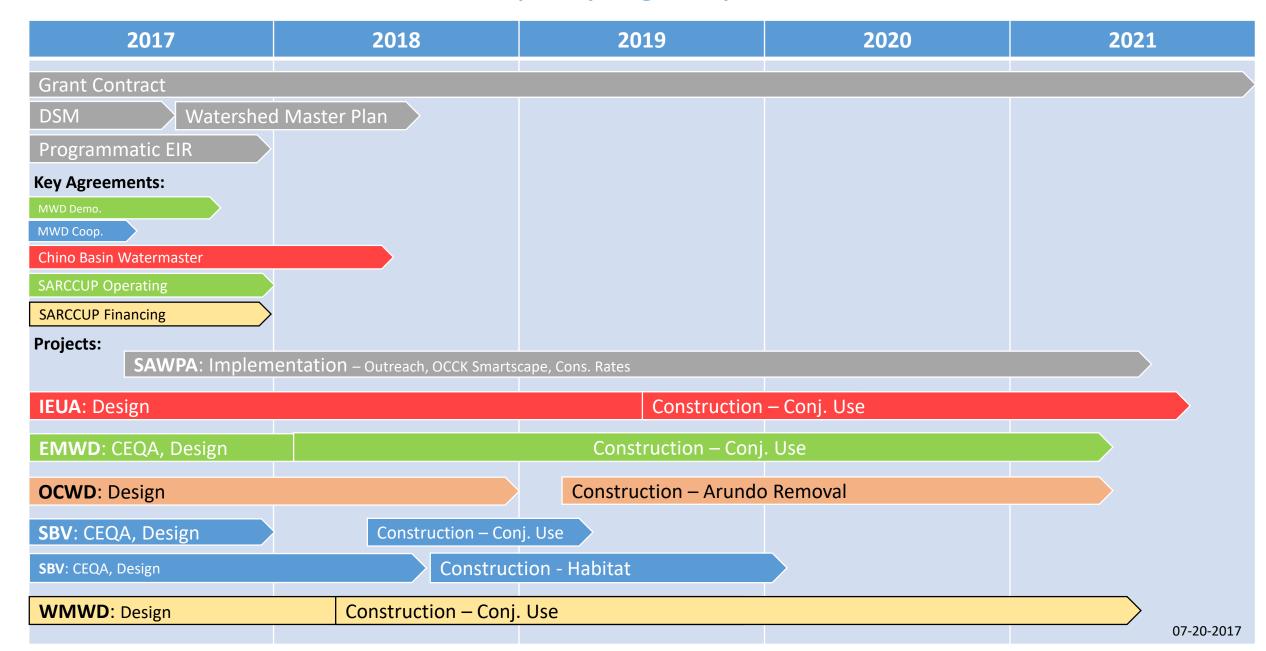








### SARCCUP Schedule Roll-Up (By Agency)



#### Santa Ana River Conservation & Conjunctive Use Program (SARCCUP) Schedule - Two-Month Look-Ahead Task Name Start Finish 16 18 20 22 24 26 28 30 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 2 4 6 8 10 12 14 1 Thu 5/1/14 Fri 12/30/22 SARCCUP Thu 7/2/15 Wed 3/23/22 2 **Task 1: Project Management** 4 Task 1.2: Program Manager - Year 2 Mon 7/3/17 Fri 6/29/18 Thu 7/2/15 Wed 3/23/22 8 Task 1.6: Agreements 10 Fri 11/4/16 Fri 12/29/17 SAWPA-IEUA Sub-Agreement Fri 3/16/18 Mon 11/7/16 13 SAWPA-WMWD Sub-Agreement Fri 11/4/16 Fri 12/29/17 14 SAWPA-OCWD Sub-Agreement Fri 11/4/16 Fri 9/29/17 15 SAWPA-OC Coastkeeper Sub-Agreement (PA-22) Tue 9/1/15 Fri 12/29/17 17 SARCCUP Operating Agreement Fri 12/29/17 18 Tue 9/1/15 SARCCUP Financing Agreement Fri 1/1/16 Fri 9/29/17 19 Metropolitan-SARCCUP Demonstration Agreement Fri 6/29/18 Mon 7/3/17 21 IEUA and Chino Basin Watermaster Agreement Fri 12/29/17 22 Thu 7/2/15 EMWD and Hemet San Jacinto Watermaster Agreement Fri 9/29/17 Mon 9/19/16 24 WMWD-EVMWD Agreement 25 Fri 6/9/17 Mon 9/5/22 Task 2: Labor Compliance 27 Tue 5/12/20 LCP Approval Implementation Fri 6/9/17 31 Wed 5/31/17 Fri 12/30/22 Task 3: Reporting Mon 1/18/16 Tue 7/24/18 Task 4: Land Purchase/Easement Project: SARCCUP Schedule\_9Jan17\_critical path\_DL Summary SAWPA WMWD Date: Thu 7/20/17 IEUA OCWD Project Summary Manual Task **EMWD** Manual Summary Rollup SBVMWD Page 1

#### Santa Ana River Conservation & Conjunctive Use Program (SARCCUP) Schedule - Two-Month Look-Ahead lD Task Name Start Finish 16 18 20 22 24 26 28 30 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 2 4 6 8 10 12 14 Mon 1/18/16 Tue 7/24/18 60 Task 4.1: EMWD Land Purchase/Easement Mon 1/18/16 Fri 9/29/17 62 Well Drilling Three Wells - ROW Acqusition 64 Task 4.2: SBVMWD Land Purchase/Easement Mon 4/3/17 Fri 9/15/17 Mon 4/3/17 Fri 9/15/17 65 Conjunctive Use Water Bank Facilities (San Bernardino Basin) - Property Acquisition Fri 4/1/16 Fri 9/29/17 66 Task 4.3: WMWD Land Purchase/Easement 67 Conjunctive Use Water Bank Facilities (Elsinore Basin) - Property Acquisition: Well Fri 4/1/16 Fri 9/29/17 Sites 68 **Task 5: Feasibility Studies** Fri 1/1/16 Thu 7/12/18 Fri 1/27/17 Tue 8/15/17 71 Task 5.2: SARCCUP Analyze Overall System Fri 1/27/17 Tue 8/15/17 72 Analyze/Optimize Watershed For All Project Components 73 Task 5.3: SARCCUP Master Plan Fri 7/14/17 Thu 7/12/18 74 Fri 7/14/17 Thu 7/12/18 Prepare Watershed Long Term Facilities Plan For All Project Components Fri 1/1/16 Fri 8/3/18 75 **Task 6: CEQA Documentation** Tue 10/25/16 Wed 12/20/17 76 Task 6.1: Programmatic CEQA 77 6.1.1: Program EIR Tue 10/25/16 Wed 12/20/17 Thu 8/31/17 Wed 12/20/17 78 **EIR Project Description** Conjunctive Use Water Bank Facilities (Chino Basin) - IEUA EIR Certification Thu 7/13/17 Wed 8/9/17 Project: SARCCUP Schedule\_9Jan17\_critical path\_DL Summary SAWPA WMWD Date: Thu 7/20/17 IEUA OCWD Project Summary Manual Task **EMWD** Manual Summary Rollup SBVMWD Page 2

#### Santa Ana River Conservation & Conjunctive Use Program (SARCCUP) Schedule - Two-Month Look-Ahead lD Task Name Start Finish August 2017 <u>| 16| 18| 20| 22| 24| 26| 28| 30| 1 | 3 | 5 | 7 | 9 | 11| 13| 15| 17| 19| 21| 23| 25| 27| 29| 31| 2 | 4 | 6 | 8 | 10| 12| 14| </u> Thu 7/13/17 Wed 8/9/17 Conjunctive Use Water Bank Facilities (Elsinore Basin) - WMWD EIR Certification 86 Thu 7/13/17 Wed 8/9/17 87 Arundo Removal - OCWD EIR Certification 88 Thu 12/1/16 Fri 8/3/18 Task 6.2: SBVMWD CEQA Thu 12/1/16 Fri 12/29/17 Conjunctive Use Water Bank Facilities (San Bernardino Basin) - CEQA& 89 Certification 91 Fri 1/1/16 Fri 9/1/17 Task 6.3: EMWD CEQA 92 Fri 1/1/16 Fri 9/1/17 Conjunctive Use Water Bank Facilities (San Jacinto Basin) - CEQA& Certification Thu 5/1/14 Wed 11/7/18 93 Task 7: Permitting 94 Thu 5/1/14 Wed 11/7/18 Conjunctive Use Water Bank Facilities (Chino Basin) Mon 12/5/16 Fri 2/23/18 96 Conjunctive Use Water Bank Facilities (San Bernardino Basin) Wed 10/4/17 97 Thu 10/6/16 Conjunctive Use Water Bank Facilities (Elsinore Basin) 98 Thu 9/8/16 Fri 6/1/18 Arundo Removal 99 Fri 1/1/16 Fri 6/26/20 Task 8: Design 100 Fri 1/1/16 Fri 6/26/20 Task 8.1: Chino Basin CUP Mon 10/3/16 Fri 3/16/18 101 Baseline& Azusa-Devil Canyon Pipeline & Connections - Consultant Selection 102 Mon 4/3/17 Fri 10/12/18 Baseline& Azusa-Devil Canyon Pipeline & Connections - Preliminary Design 104 Mon 7/3/17 Fri 12/14/18 Well Modifications - Site Selection Summary SAWPA WMWD Project: SARCCUP Schedule\_9Jan17\_critical path\_DL Date: Thu 7/20/17 IEUA OCWD **Project Summary** Manual Task **EMWD** SBVMWD Manual Summary Rollup Page 3

#### Santa Ana River Conservation & Conjunctive Use Program (SARCCUP) Schedule - Two-Month Look-Ahead lD Task Name Start Finish 16 18 20 22 24 26 28 30 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 2 4 6 8 10 12 14 Fri 1/1/16 Fri 8/2/19 110 Task 8.2: San Jacinto Basin Mon 5/29/17 Fri 2/9/18 112 Mountain Avenue West Recharge Facilities - Final Design Fri 11/17/17 113 Fri 3/31/17 Well Drilling Three Wells - Preliminary Design Mon 10/3/16 Fri 9/29/17 116 Task 8.3: San Bernardino Basin Area CUP Fri 9/29/17 117 Construction Documents (Design) Mon 10/3/16 Mon 10/3/16 Wed 12/25/19 118 Task 8.4: Elsinore Basin CUP 120 Well Drilling - Final Design Mon 4/17/17 Fri 9/29/17 Mon 12/3/18 123 Task 8.5: Habitat Improvement Fri 4/1/16 124 Fri 4/1/16 Mon 12/3/18 Task 8.5.1: Arundo Donal Removal 125 Restoration Integrated Design/Planning/Bio Surveys Fri 4/1/16 Mon 12/3/18 127 Fri 7/1/16 Thu 12/14/17 Task 8.5.2: Sucker Habitat Fri 7/1/16 Thu 12/14/17 128 **Establish Mitigation Bank** Fri 7/1/16 Fri 10/27/17 129 Restoration Integrated Design/Planning/Bio Surveys Fri 9/1/17 Fri 9/3/21 130 **Task 9: Project Monitoring Plan** 132 Fri 9/1/17 Fri 9/3/21 Conjunctive Use Water Bank Facilities (San Jacinto Basin) Project: SARCCUP Schedule\_9Jan17\_critical path\_DL Summary SAWPA WMWD Date: Thu 7/20/17 IEUA OCWD Project Summary Manual Task **EMWD** Manual Summary Rollup SBVMWD Page 4

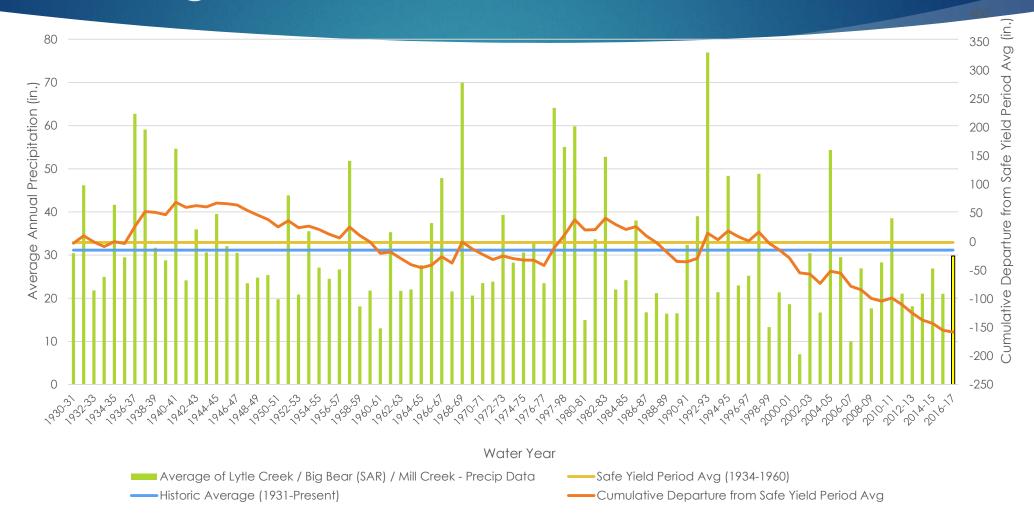
# PA 23 - SARCCUP Update

AGENDA ITEM 4.B. SARCCUP AGENCIES - MWD AGREEMENTS STATUS 8/1/2017

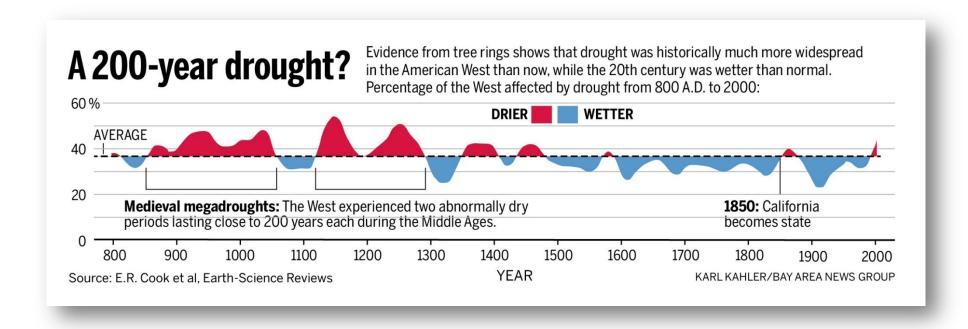
# Agenda

- SARCCUP background
- Valley District / MWD Coordinated Operating Agreement
- SARCCUP Agencies / MWD Coordinated Operating Agreement
- Next steps

# Nineteen Year Drought, and counting...



# WHAT IF DROUGHTS LAST LONGER?



# Foundational Management Strategy

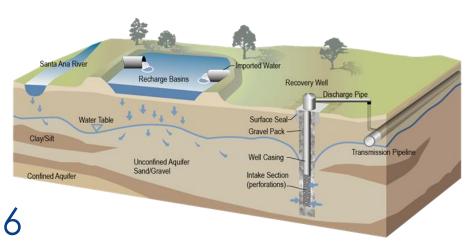
No.	Strategy (in no particular order)	Status	Estimated Benefit	2017 Status
REDUCE DEMAND			·	
<b>—</b> /		Widely	Help meet SBX7-7 required	Prop 84, Round 2 grants, being
$\square$	Water rate structures that encourage conservation	implemented	demand reductions	implemented and studied
oxdet		Widely	Help meet SBX7-7 required	
	Public education to encourage water conservation	implemented	demand reductions	Widely implemented
		Widely	Help meet SBX7-7 required	
	Outdoor conservation	implemented	demand reductions	Widely implemented
	Reduce Evapotranspiration	Concept	More investigation required	
OPTIMIZE IMPORTED WATER				
	Wet year storage program	In process		Being implemented/SARCCUP
	Bay Delta Conservation Plan	In process	$730,000 \times 0.18 = 131,400 \text{ AFY}$ and improved water quality	In process
	Imported water banking	Widely implemented	Water in dry years	Being implemented/SARCCUP
	Prevent invasive species from clogging infrastructure	In process	Consistent deliveries	In process
STORMWATER CAPTURE				
	Enhanced Santa Ana River stormwater capture	In process	12,000 AFY	Being implemented
lacksquare	Enhanced stormwater capture from tributaries of	In process		
lacktriangledown	Santa Ana River		28,000 AFY	Waiting on River HCP
	Riverside North Aquifer Storage and Recovery Project	In process	12,800 AFY	Waiting on River HCP
	Enhanced Santa Ana River stormwater capture at	Concept		
Ĭ <b>Ţ</b> Ĭ	Prado Dam		10,000 AFY	
	MS4 Credits	Concept	Increased stormwater capture	
	Re-operate flood control facilities	In process	More investigation required	Being implemented
	Size flood control facilities for stormwater capture	Concept	Increased stormwater capture	
	Development Standards that enhance stormwater	Concept		
	capture		Increased stormwater capture	

### SARCCUP Elements

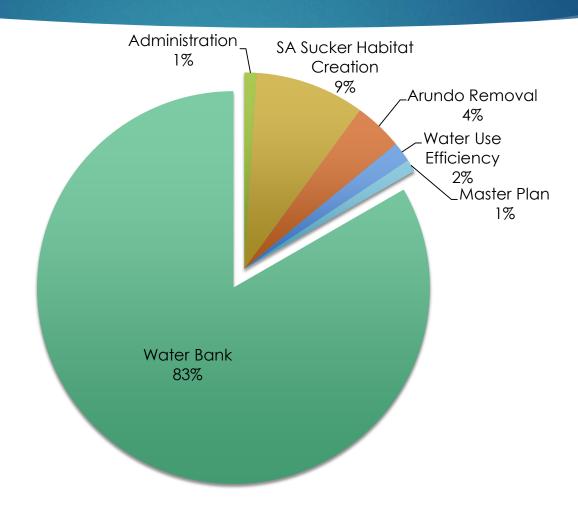
- Habitat Improvement: Arundo Removal & Santa Ana Sucker fish habitat restoration
- Water Use Efficiency: Conservation-Based Rates Support, Water-use Efficient Landscaping Design
- Groundwater Banking: "Put and Take" Conjunctive Use Facilities







# Total Cost, \$100 million

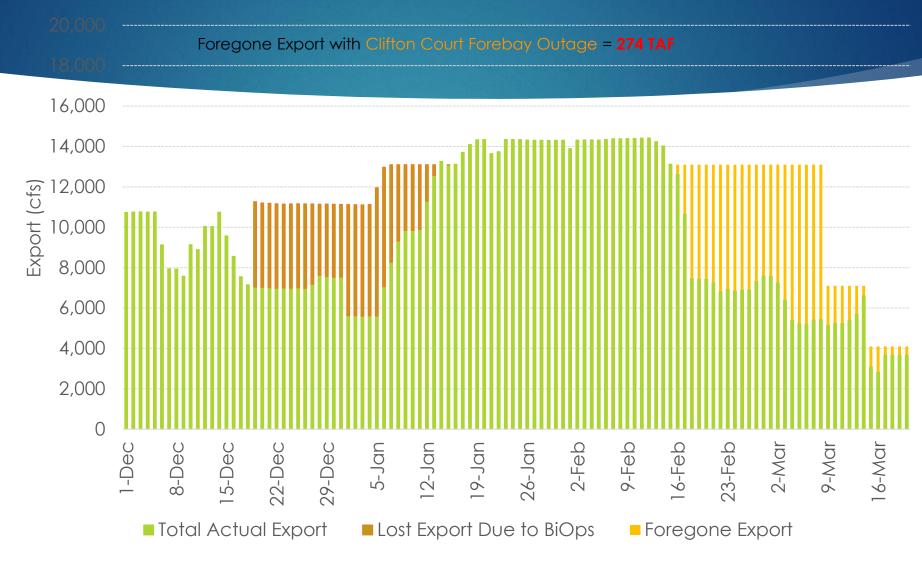


# Cost Sharing

### Total SARCCUP Project Cost = \$100 million

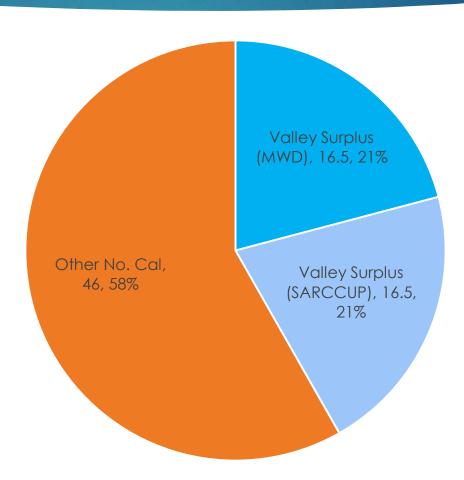


# Lost Export Due to BiOps and Foregone Export: Water Year 2016-17



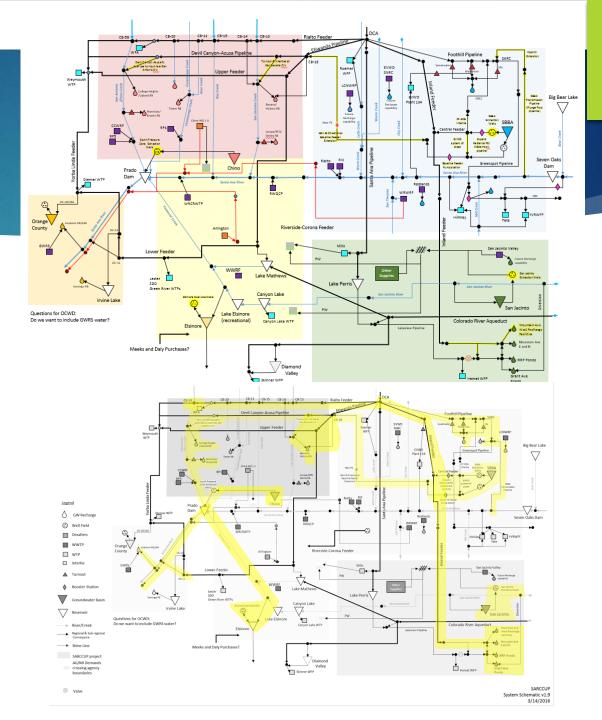
# Forecasted Extraordinary Supply Available for SARCCUP (TAF)

(assumes SBVMWD SWP demands = 40 TAF)



# System Schematic

- Ability to physically move water through the system
- Agree on SARCCUP elements that will allow core functionality of the system
- Capacities that might create system bottlenecks (pipes/pumps)
- Operating scenarios & project alternatives contemplate operation of program with and without Metropolitan Water District of Southern California



# MWD Agreements - Proposed Benefits to SARCCUP Agencies

#### Valley District/MWD

- MWD and SARCCUP agencies get access to Valley District surplus water.
- Agreement required between MWD, Valley District and DWR.

#### MWD Member Agencies/MWD

- Not required, MWD Member Agencies can proceed without this agreement.
- Guards against changes in personnel, etc.

### MWD Agreements - Basic Terms

#### Valley District/MWD

- Sells surplus water to MWD (after 5,000 AF to SGPWA)
  - ▶ Up to 50% offered to SARCCUP first
  - Qualifies as "Extraordinary" supply
- Establishes sales price

#### MWD Member Agencies/MWD

- Qualifies as "Extraordinary" supply
- Terms adhere to all existing MWD policies
  - Wheeling
  - Water Shortage Contingency Plan
  - Appendix G (Extraordinary Supply)

# Valley District - MWD Coordinated Operating Agreement

# MWD Break-Even (no cost increase for SARCCUP MWD Member Agenciees)

	MWDSC (Non-SARCCUP)	
System Power Rate: Tier 1 Supply Rate:	\$138 \$156	
Total Break-Even for MWD	\$294	

# Price Paid to Valley District at MWD Break-even

	MWDSC	Valley District	Valley District
	(Non-SARCCUP)	SARCCUP	Current
System Power Rate:	\$138	\$250	
Tier 1 Supply Rate:	\$156		
Paid to Valley District		\$44	\$95
Total	\$294	\$294	

### Base Water Price on AVEK/MWD Deal

AVEK, 100% MWDSC (Direct sale to MWDSC)

SARCCUP, 25.91% of MWDSC

Non-SARCCUP Price: AVEK Based Price Schedule + SWP			
Power (100% MWDSC Family)			
		Power	
Final SWP Allocation	Price (\$/AF)	(\$/AF)	Total
1-5%	\$587	\$250	\$837
6-10%	\$552	\$250	\$802
11-15%	\$518	\$250	\$768
16-20%	\$483	\$250	\$733
21-25%	\$449	\$250	\$699
26-30%	\$414	\$250	\$664
31-35%	\$380	\$250	\$630
36-40%	\$345	\$250	\$595
41-45%	\$311	\$250	\$561
46-50%	\$276	\$250	\$526
51-55%	\$242	\$250	\$492
56-60%	\$207	\$250	\$457
61-65%	\$173	\$250	\$423
66-70%	\$150	\$250	\$400
71-75%	\$69	\$250	\$319
76-80%	\$69	\$250	\$319
81-85%	\$53	\$250	\$303
86-90%	\$38	\$250	\$288
91-95%	\$38	\$250	\$288
96-100%	\$38	\$250	\$288
Average	\$270		

SARCCUP Price (25.91%				
price schedule)				
		Power		
Final SWP Allocation	Price (\$/AF)	(\$/AF)	Total	
1-5%	\$152	\$250	\$402	
6-10%	\$143	\$250	\$393	
11-15%	\$134	\$250	\$384	
16-20%	\$125	\$250	\$375	
21-25%	\$116	\$250	\$366	
26-30%	\$107	\$250	\$357	
31-35%	\$98	\$250	\$348	
36-40%	\$89	\$250	\$339	
41-45%	\$81	\$250	\$331	
46-50%	\$72	\$250	\$322	
51-55%	\$63	\$250	\$313	
56-60%	\$54	\$250	\$304	
61-65%	\$45	\$250	\$295	
66-70%	\$39	\$250	\$289	
71-75%	\$18	\$250	\$268	
76-80%	\$18	\$250	\$268	
81-85%	\$14	\$250	\$264	
86-90%	\$10	\$250	\$260	
91-95%	\$10	\$250	\$260	
96-100%	\$10	\$250	\$260	
Average	\$70			

# Proposal

Direct SARCCUP Sale Average: \$170/af \$270/AF \$70/AF 50% 50%

### Draft Term Sheet

- 1. 5,000 AF made available to SGPWA first
- 2. Remaining water offered to MWD
- 3. 50% of water purchased from Valley District will be offered to SARCCUP first as "extraordinary" supply

Not yet considered by Board Price paid to Valley
District(review every 5 years)

Final SWP Allocation		
0 - 20%	\$400	
21 - 40%	\$300	
41 - 60%	\$200	
61 - 100%	\$100	

# SARCCUP Agencies - MWD Coordinated Operating Agreement

# SARCCUP Agencies – MWD Agreement Background

- Representatives from the SARCCUP Agencies met with MWD staff a total of six (6) times since May 2016 on SARCCUP operating terms
- Draft proposed terms for an agreement were reviewed and conceptually agreed upon by MWD staff at an April 5, 2017 meeting
  - Terms being incorporated into a draft Coordinated Operating Agreement
  - Agreement will be through an administrative process, signed by General Managers of SARCCUP Agencies and MWD; no Board action required

### SARCCUP - Proposed Water Supply Sources

Sources	Conceptual Proposal
MWD water purchased by SARCCUP MWD member agencies (and OCWD)	<ul> <li>Water purchased at prevailing full-service untreated rate.</li> </ul>
Surplus SWP supplies from SBVMWD*	<ul> <li>Sold to MWD under SBVMWD/MWD contract</li> <li>SARCCUP agencies purchase from MWD for storage at Tier 1 untreated rate in effect at time of delivery</li> <li>SARCCUP member agencies purchase up to 50% of an equivalent amount of water that Valley provides to Metropolitan agencies</li> <li>Water not purchased by SARCCUP agencies available to MWD for use in MWD service area</li> </ul>
Non-SWP supplies wheeled through MWD system*	MWD agencies pay MWD prevailing wheeling rate.
Non-SWP supplies wheeled through SBVMWD system*	<ul> <li>SARCCUP agencies pay SBVMWD prevailing wheeling rate.</li> </ul>

<sup>\*</sup> Treated as Extraordinary Supply if produced during Allocation

# SARCCUP Agencies – MWD Agreement Draft Proposed Terms

#### **Draft terms:**

1. MWD agrees that up to 50% of an equivalent amount of water that Valley District provides to MWD can be purchased by SARCCUP and could qualify as Extraordinary Supply to participating SARCCUP MWD member agencies. The stored water must continue to meet all MWD Board Principles (Appendix G) to become extraordinary supply.

# SARCCUP Agencies – MWD Agreement Draft Proposed Terms (cont'd)

#### Draft terms:

- 2. Water Delivery Options
  - i. Delivery to SARCCUP MWD member agencies' SARCCUP facilities
  - ii. Delivery to SARCCUP MWD member agencies' MWD Cyclic Storage Account
  - iii. Surplus Valley SWP water stored for the benefit of SARCCUP MWD agencies, banked/stored in Valley's service area
    - Valley will not store over 50% of the amount of water that Valley will provide MWD
    - SARCCUP MWD member agencies call for the water and Valley executes an exchange of equivalent amount of water delivered to MWD
    - Stored and recovered water is considered Extraordinary Supply

# SARCCUP Agencies – MWD Agreement Draft Proposed Terms (cont'd)

#### **Draft terms:**

- 3. MWD decides not to purchase Valley surplus SWP in a given year (assumes MWD has no storage available)
  - i. MWD delivers 100% of an equivalent amount of water Valley provides MWD to SARCCUP MWD member agencies, with 50% delivered to SARCCUP facilities and the other 50% delivered to agencies' MWD Cyclic Storage Account, if available
- 4. MWD proposes to review the SARCCUP agencies' proposal and provide a <u>pre-certification</u>, conditioned on the MWD member agencies following the proposal and staying consistent with MWD Board policy principles related to Extraordinary Supply (Appendix G).

### Next Steps – MWD Agreements

- Valley District / MWD Agreement
  - Negotiations complete on agreement
  - Valley District Board consideration of final Valley-MWD agreement
- SARCCUP Agencies / MWD Agreement
  - ✓ SARCCUP agencies develop term sheet with MWD
  - Develop and execute SARCCUP MWD Agreement

# Questions?

- End -