

# Arundo Headwaters Project Opportunity with Inland Empire Resource Conservation District

June 7, 2022 | Commission Meeting

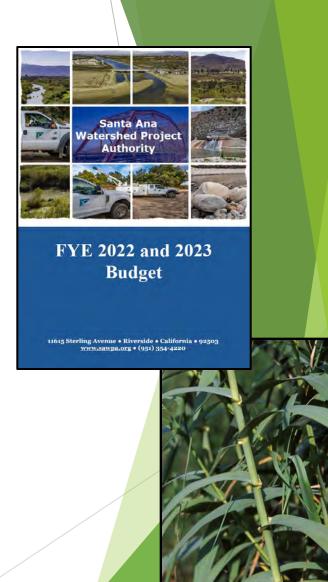
Item 6.A.





## Quick Stats on the Arundo Roundtable

- Arundo Management & Habitat Restoration Fund (Fund) in SAWPA Budget,
- Fund in Budget gains revenue from Santa Ana River Mitigation Bank credit sales,
- Per SAWPA Resolution No. 427, use of the Fund (like a task order) needs to be approved by Commission.

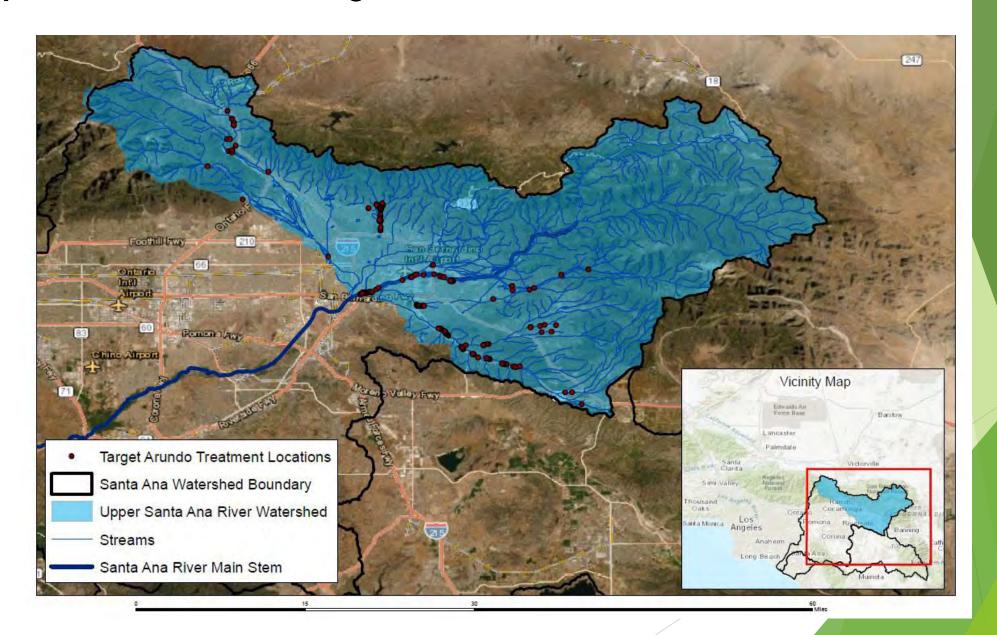


#### What is Arundo donax?

- Invasive Plant (High Rating),
- Noxious Weed,
- Uses approx. 528 gallons of water per meter annually,
- ► Highly combustible,
- Survives fire and thrives,
- Causes flooding by altering flow regimes, and
- No known habitat benefit.



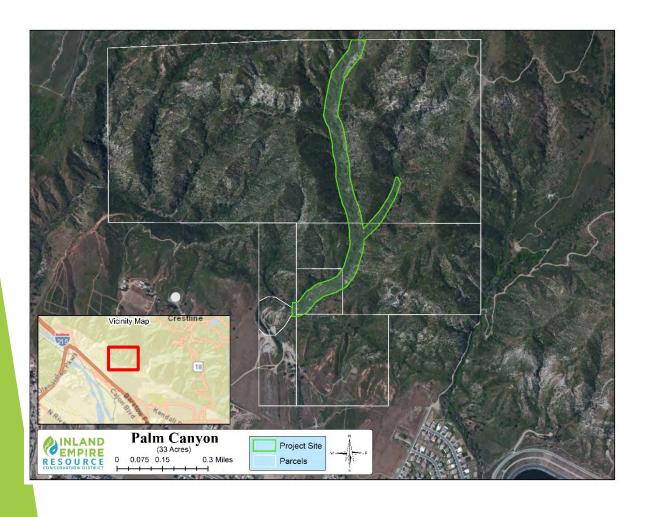
#### Map of Planned Project Sites



#### Headwaters Project Area Stats

Project Site	Project Site Size (Acres)
Cajon Creek	1,285
Coopers Creek	108
Live Oak Canyon	44
Lytle Creek	6,398
Mill Creek	6
Morey Arroyo	13
Noble Creek	244
Palm Canyon	33
San Timoteo Canyon	511
Santa Ana River Main Stem	1,217
The Zanja	42
Waterman Canyon and East Twin Creek	206
Yucaipa Waterways	61
TOTAL	10,168

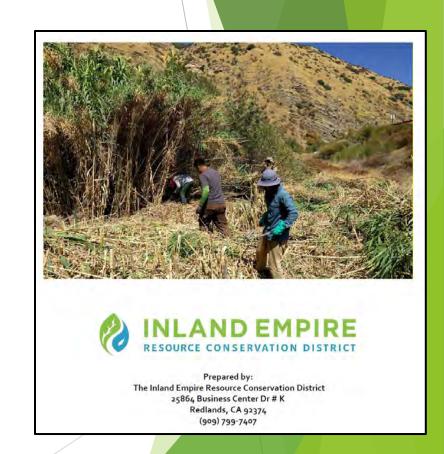
#### Example of Project Sites





# About Inland Empire Resource Conservation District (IERCD)

- One of four RCDs in the Santa Ana River Watershed (SARW),
  - ► Their service area covers the upper SARW,
- ► SAWPA and IERCD first started coordinating about upper watershed issues as both agencies attend SARW Weed Management Area meetings,
- ► Similar projects IERCD has implemented include:
  - ► Mill Creek Spanish Broom Control Project
  - ► Cajon Pass Invasive Species Control Project
- ► IERCD has a detailed invasive species removal plan for their team of field technicians.



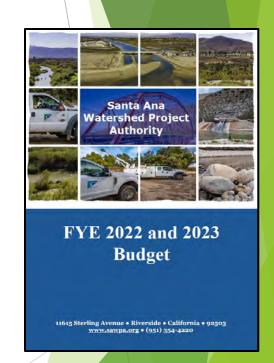
# Why Headwaters Are An Important Focus-Area for Arundo Removal

- Arundo seedlings can wash down waterways during rain events,
- Starting at top of watershed and working down is economical.
- Estimated costs for this five-year project is approximately \$150,000
  - ► Two years of parcel owner outreach and initial treatment with hand-held equipment, and
  - ► Three years of follow up treatment with EPA-approved herbicide.



# Important Considerations for Working in the Headwaters

- ► SAWPA is not required to remove Arundo donax in these portions of the watershed (i.e. this is not "mitigation" for another project or activity),
- Approximately \$864,000 in funding is available in SAWPA's Arundo Fund budget for this work,
- Some of the other downstream Arundo "hot spots" in the watershed are being treated by other entities, and
- ► IERCD and SAWPA coordinate with these entities through various methods such as Weed Management Area meetings.



#### Next Steps

- Receive feedback from Commission during this meeting,
- Present final task order with IERCD for approval at upcoming Commission meeting.

#### Recommendation

Receive and file.

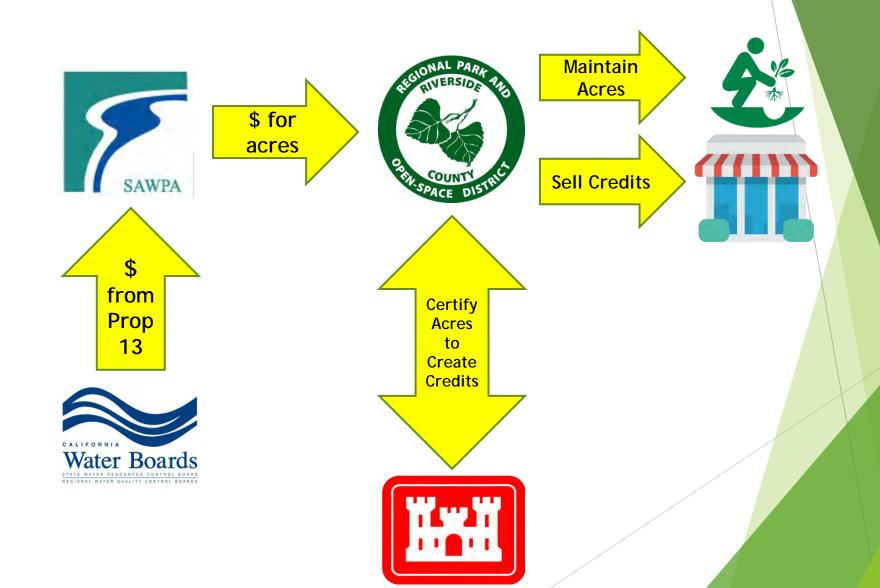
#### Further Background if Needed

#### How the Mitigation Bank Works

- Operated by Riverside County Regional Park and Open-Space District,
- Created in 1996 with Army Corps of Engineers, and
- SAWPA purchased 100 units in 2002 as part of Proposition 13 (2000 Water Bond)



#### SAWPA's Funding Initially Provided to Bank



#### Bank Revenue Provided to SAWPA



### Disadvantaged Community Involvement Program

# DWR DACI Program Set-Aside Funding, 2021 Urban and Multibenefit Drought Relief Grant Program

#### **SAWPA** Resolution

Mark Norton, Water Resources & Planning Manager SAWPA Commission | June 7, 2022 Item No. 6.B.



#### Recommendation

That the Commission adopt Resolution No. 2022-10, to authorize the application for a grant under the 2021 Urban and Multibenefit Drought Relief Grant Program for Disadvantaged Community Involvement Set-Aside Funding that designates a representative to sign the application, and in the event of an award of grant funds, a representative to execute the funding agreement and all necessary documentation.



# 2021 Urban and Multi-benefit Drought Relief Grant Program (DWR)

- Grant Program:
  - September 2021 Draft Guidelines and Proposal Solicitation Package (PSP) released
  - October 2021 Final Guidelines and Proposal Solicitation Package released
  - Provides at least \$190 million in drought relief funding
- Fund projects that respond to drought, including:
  - Loss or contamination of water supplies
  - Impacts on human health and safety
  - Protect fish and wildlife resources
- Set-Aside:
  - \$50 million statewide
  - Support Underrepresented Communities and Native American Tribes
  - Use Prop 1 IRWM DCI Program





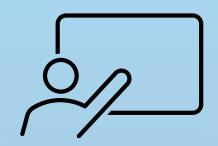
# 2021 Urban and Multi-benefit Drought Relief Grant Program - \$5 million Set-Aside for SAWPA

#### SAWPA:

- Grantee of the DACI Program for our IRWM region
- Eligible for up to \$5 million (use of existing DACI grant agreement)

#### Program details:

- Fund eligible drought relief projects
- Benefits to Underrepresented Communities or Tribes
- No local cost share match required for grant
- Projects to be bundled together in a single application
- Deadline for application: February 2022





#### SAWPA: Application to DWR

- January 2022 on-line "Call For Project Applications"
  - Project proposals were scored based upon:
    - DWR Grant Requirements
      - Respond to drought emergency
      - Two quantifiable benefits
    - SAWPA DCI Program Goals
      - Technical Assistance Criteria for rating and ranking projects
  - Target projects previously awarded "Technical Assistance Funding" under SAWPA DCI program
- February 2022 SAWPA Commission approved a suite of projects to be included in an application to be submitted to DWR
- Application currently under DWR review.





#### **Funding Recommendation**

Project Proponent:	Project Title:	Total Prj Cost	<b>Grant Award</b>
City of Colton	Production Well 32	\$ 4,973,000	\$ 885,000
Box Springs Mutual Water Company	Reservoir Improvement	\$ 1,590,000	\$ 1,590,000
Marygold Mutual Water Company	Well 7 Rehabilitation and Systems Upgrade	\$ 1,448,000	\$ 1,448,000
City of Fullerton	Well 6 Rehabilitation	\$ 505,000	\$ 505,000
Devore Water Company	Booster Pump Station and Valve Vault	\$ 472,000	\$ 472,000
SAWPA	Program Administration		\$ 100,000
	Total Request:	\$ 8,988,000	\$ 5,000,000



#### **Next Steps**

- Decision by DWR regarding SAWPA Application
- Amend existing DCI Program Grant Agreement to incorporate additional projects and SAWPA Project Administration
- Prepare DCI Grant sub-agreements with each of the project proponents.





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#### Backup Project Slides if needed





# Santa Ana Weather Modification Pilot Program Operations Request for Proposals

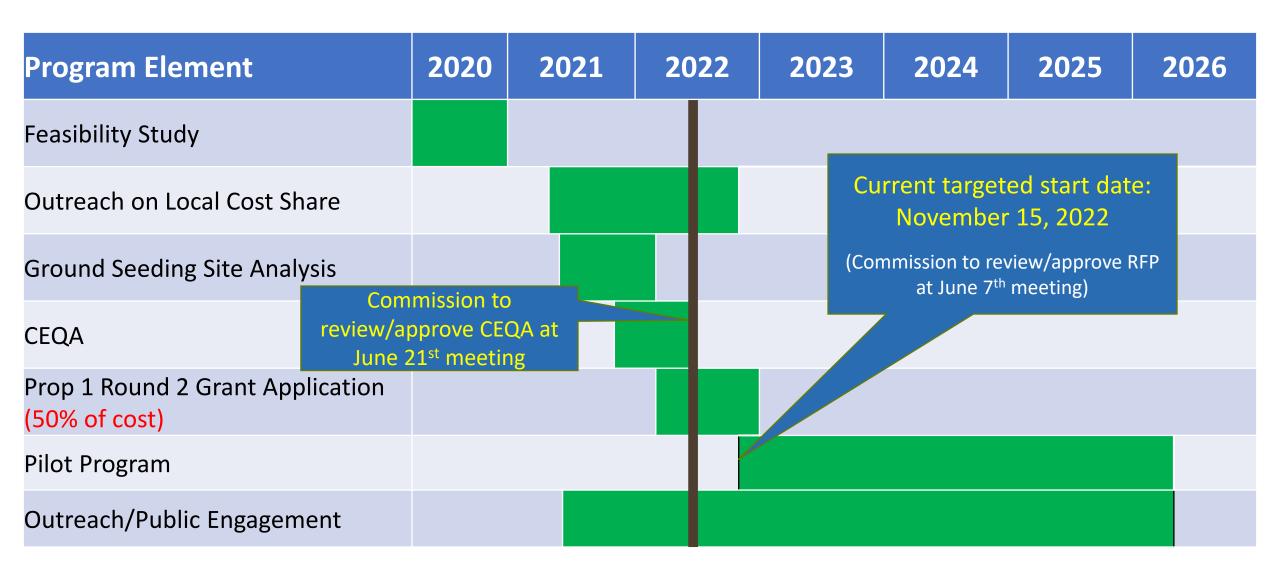
Mark Norton, Water Resources & Planning Mgr. Santa Ana Watershed Project Authority Item No. 6.C.



#### Recommendation

 Staff recommends that the SAWPA Commission authorize staff to issue a Request for Proposals for the Santa Ana River Watershed Weather Modification Pilot Program Operations services

#### Santa Ana River Weather Modification Pilot Program



#### **Ground Seeding Locations Analysis Status - Completed**

Consultant: North American Weather Consultants

#### Scope:

- Select locations for ~15 ground seeding sites
- Contact public water agencies to ensure that operations from the locations are feasible
- Work with public water agencies to plan operation of units based on future agreements with a licensed weather modification operator

#### Status:

 Project summary report detailing the locations identified by consultant submitted to SAWPA on Feb. 7, 2022.



# California Environmental Quality Act – Mitigated Negative Declaration Analysis - Status

- Nov. 1, 2021: Held kickoff meeting with Catalyst Environmental Solutions
- **Dec. 15, 2021** Project Description, alternatives and phasing is completed
- Mar. 31, 2022 Draft Initial Study is completed
- Apr. 19, 2022 Public Comment Meeting
- May 6, 2022 Public Comment Period Closed no significant comments or objections received
- Jun. 21, 2022 SAWPA Commission ratifies CEQA Mitigated Negative Declaration
- North American Weather Consultants is assisting CEQA consultant to provide context, feedback, and assistance.



#### **Outreach Presentations and Funding Support**

#### Approach:

Contacted 60+ water agencies/departments and other organizations.

#### Status:

- 45+ Outreach presentations since Dec 2019
- Funding commitments for weather modification pilot:

	-
<ul> <li>Chino Basin Water Conservation District</li> </ul>	\$20,000
<ul> <li>San Gorgonio Pass Water Agency</li> </ul>	\$20,000
<ul> <li>Big Bear Lake Dept of Water &amp; Power</li> </ul>	\$12,000
<ul> <li>Big Bear City Community Services District</li> </ul>	\$12,000

• Lake Elsinore & San Jacinto Watersheds Authority \$10,000

• City of Santa Ana \$10,000

• San Antonio Water Company \$5,000

• City of Corona \$5,000

Total \$94,000



# Proposition 1 Round 2 IRWM Implementation Grant Application - Status

- SAWPA staff prepared project grant application for OWOW Call for Projects for Prop 1 Round 2 IRWM grant funding
- Next Steps:
  - 1. SAWPA staff submitted Weather Modification Pilot Project grant application on May 31, 2022
  - 2. Continue seeking local cost share commitments from agencies in the watershed through Aug. 2022
  - 3. Support grant application through OWOW Prop 1 Round 2 IRWM grant stakeholder budgeting and ranking process with presentations and justification of benefits as needed

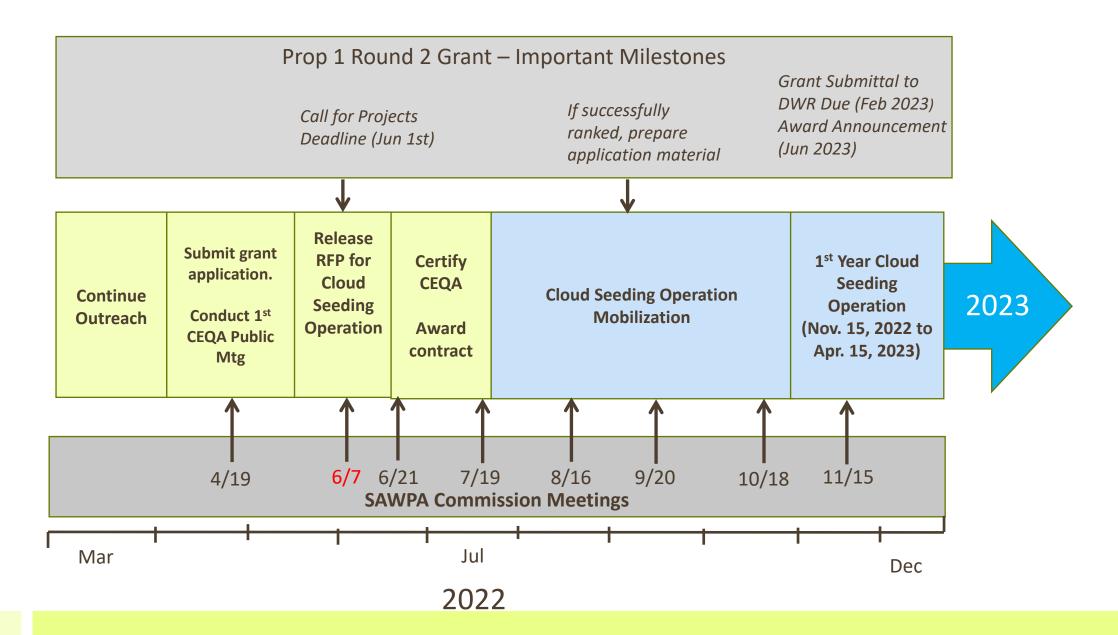




# Pilot Program 4-Year Budget Estimate Updated 6-1-22

Year	Task	Consultant/Staff Lead	<b>Estimated Cost</b>
1 <sup>st</sup>	Ground Seeding set up & operation	NAWC estimate	\$250,000
	Validation	Desert Research Institute	\$50,000
	Project Adm/Mgt	SAWPA Staff	\$50,000
		1st Year Subtotal w/15% contingency	\$403,000
2 <sup>nd</sup>	Ground Seeding site operation	NAWC estimate	\$220,000
	Validation	Desert Research Institute	\$35,000
	Stormwater Capture Analysis	West Yost/Geoscience	\$120,000
	Project Adm/Mgt	SAWPA Staff	\$30,000
		2 <sup>nd</sup> Year Subtotal w/15% contingency	\$466,000
3 <sup>rd</sup>	Ground Seeding sites & operation	NAWC estimate	\$230,000
	Validation	Desert Research Institute	\$35,000
	Project Adm/Mgt	SAWPA Staff	\$30,000
		3 <sup>rd</sup> Year Subtotal w/15% contingency	\$339,000
4 <sup>th</sup>	Ground Seeding sites & operation	NAWC estimate	\$240,000
	Validation	Desert Research Institute	\$35,000
	Project Adm/Mgt	SAWPA Staff	\$40,000
		4 <sup>th</sup> Year Subtotal w/15% contingency	\$362,000
		Total	\$1,570,000
	SAWPA Total Cost Reduced by Local Agency Funding (\$94K) & Prop 1 Grant		\$ 691,000
	Average SAWPA Member Agency Cost/Year		\$34,550

#### **Proposed Pilot Program Implementation with Nov. 2022 Start**



#### **Draft Cloud Seeding Operations RFP – Scope of Work**

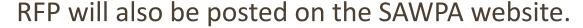
- Task 1 Project Management and Administration
- Task 2 Program Personnel
- Task 3 Installation
- Task 4 Land Lease/Operation Agreements
- Task 5 Operations
- Task 6 Equipment Maintenance
- Task 7 Reporting & Invoicing
- Task 8 Schedule

Duration: Four years over annual winter periods (Nov. 15 – Apr. 15)



#### RFP Firms To Be Contacted

- North American Weather Consultants, Orem, UT Garrett Cammans
- Weather Modification International, Fargo ND Bruce Boe
- Western Weather Consultants, Durango, CO Eric Hjermstad
- Seeding Operations and Atmospheric Research, Wichita Falls, TX – Gary Walker

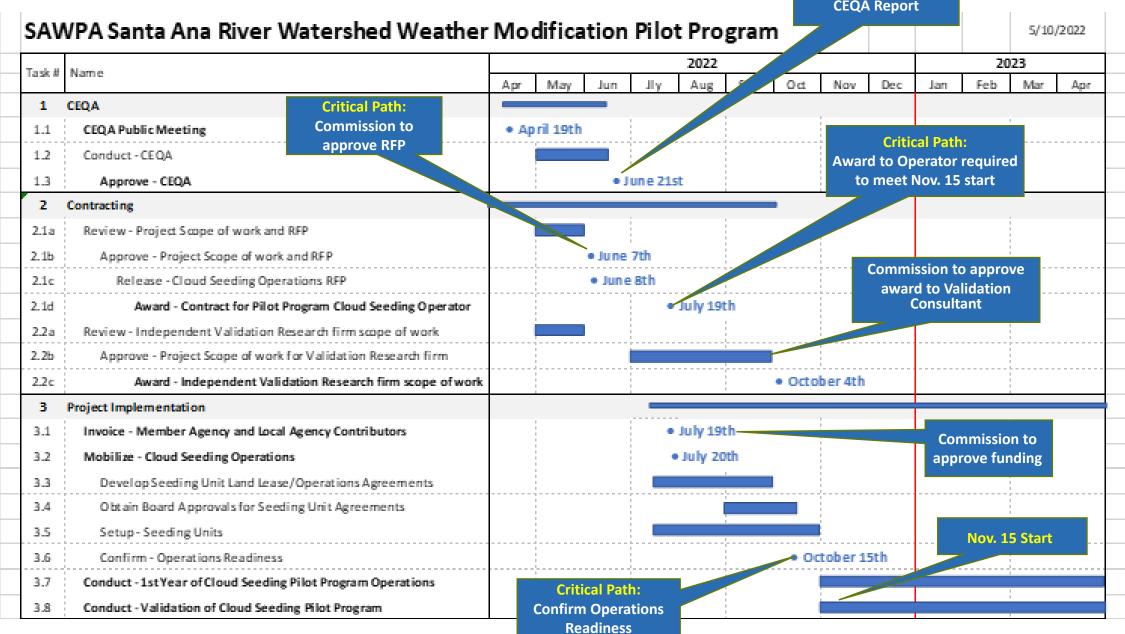


Proposals will be due on July 1, 2022 through SAWPA's PlanetBids proposal submittal process

Anticipated SAWPA Commission future contract award – July 19, 2022



**Commission to adopt CEQA Report** 



#### Recommendation

 Staff recommends that the SAWPA Commission authorize staff to issue a Request for Proposals for the Santa Ana River Watershed Weather Modification Pilot Program Operations services