



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

SPECIAL NOTICE REGARDING CORONAVIRUS DISEASE 2019 (COVID-19) AND PARTICIPATION IN PUBLIC MEETINGS

On March 4, 2020, Governor Newsom declared a State of Emergency resulting from the threat of COVID-19. Governor Newsom issued Executive Order N-25-20 (3-12-20) and Executive Order N-29-20 (3-17-20) which temporarily suspend portions of the Brown Act relative to conducting of public meetings. Subsequent thereto, Governor Newsom issued Executive Order N-33-20 (3-19-20) ordering all individuals to stay at home or at their place of residence. Accordingly, it has been determined that all Board and Committee meetings of the Santa Ana Watershed Project Authority held pursuant to the Brown Act will be conducted virtually, including meetings of the:

- SAWPA Commission
- PA 22, PA 23, and PA 24 Committees
- OWOW Steering Committee

REGULAR MEETING OF THE PROJECT AGREEMENT 22 COMMITTEE TUESDAY, JULY 14, 2020 – 8:30 A.M.

PUBLIC PARTICIPATION

Public participation is welcome and encouraged. You may participate in the July 14, 2020 meeting of the SAWPA Project Agreement 22 Committee by telephone* and virtually through the Zoom app as follows:

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone*:
<ul style="list-style-type: none"> • https://sawpa.zoom.us/j/98814580662 	<ul style="list-style-type: none"> • 1 (669) 900-6833
<ul style="list-style-type: none"> • Meeting ID: 988 1458 0662 	<ul style="list-style-type: none"> • Meeting ID: 988 1458 0662

If you are unable to participate by telephone* or virtually, you may also submit your comments and questions in writing for the Committee’s consideration by sending them to publiccomment@sawpa.org with the subject line “Public Comment Item #” (insert the agenda item number relevant to your comment) or “Public Comment Non-Agenda Item”. Submit your written comments by 6:00 p.m. on Monday, July 13, 2020. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record.

***IMPORTANT PRIVACY NOTE: Participation in the meeting via the Zoom app is strongly encouraged. Please keep in mind: (1) This is a public meeting; as such, the virtual meeting information is published on the World Wide Web and available to everyone. (2) Should you participate remotely via telephone, your telephone number will be your “identifier” during the meeting and available to all meeting participants. Participation in the meeting via the Zoom app is strongly encouraged; there is no way to protect your privacy if you elect to call in to the meeting. The Zoom app is a free download.**

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PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-25-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 12, 2020, AND EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 17, 2020, ANY COMMITTEE MEMBER MAY CALL INTO THE COMMITTEE MEETING WITHOUT OTHERWISE COMPLYING WITH THE BROWN ACT'S TELECONFERENCING REQUIREMENTS.

VIRTUAL ACCESSIBILITY FOR THE GENERAL PUBLIC:

Due to the spread of COVID-19, and until further notice, the Santa Ana Watershed Project Authority will be holding all upcoming Board and Committee meetings by teleconferencing and virtually through Zoom.

This meeting will be accessible as follows:

Meeting Access Via Computer (Zoom)*:	Meeting Access Via Telephone*:
<ul style="list-style-type: none"> • https://sawpa.zoom.us/j/98814580662 	<ul style="list-style-type: none"> • 1 (669) 900-6833
<ul style="list-style-type: none"> • Meeting ID: 988 1458 0662 	<ul style="list-style-type: none"> • Meeting ID: 988 1458 0662
<p>*Participation in the meeting via the Zoom app (a free download) is strongly encouraged; there is no way to protect your privacy if you elect to call in by phone to the meeting.</p>	

All votes taken during this meeting will be conducted by oral roll call.

NOTICE OF REGULAR MEETING OF THE PROJECT AGREEMENT 22 COMMITTEE

Interregional Landscape Water Demand Reduction Program

Committee Members:

Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency
Heather Dyer, General Manager, San Bernardino Valley Municipal Water District
Paul D. Jones, General Manager, Eastern Municipal Water District, Chair
Michael Markus, General Manager, Orange County Water District, Vice Chair
Craig Miller, General Manager, Western Municipal Water District

TUESDAY, JULY 14, 2020 – 8:30 A.M.

AGENDA

- 1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Paul D. Jones, Chair)**
- 2. PUBLIC COMMENTS**

Members of the public may address the Committee on items within the jurisdiction of the Committee; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

- 3. [APPROVAL OF MEETING MINUTES: MARCH 10, 2020](#) 7
- 4. **COMMITTEE DISCUSSION/ACTION ITEMS**
 - A. [APPROVAL OF COST SHARE ALLOCATION – ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL \(PA22#2020.8\)](#)... 11
Presenter: Ian Achimore
Recommendation: Approve staff’s recommended funding allocation for the upper watershed SAWPA member agencies based on population, square mileage and parcel amount in their service areas to acquire three-inch aerial imagery for the Enhancements to Watershed-Wide Water Budget Decision Support Tool Project and their own uses.
 - B. [SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM \(SARCCUP\) SMARTSCAPE TASK COMPLETION \(PA22#2020.9\)](#)..... 31
Presenter: Ian Achimore
Recommendation: Receive and file.
 - C. [SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM \(SARCCUP\) WATER BUDGET ASSISTANCE \(PA22#2020.11\)](#) 43
Presenter: Ian Achimore
Recommendation: Receive and file.
 - D. [EMERGENCY DROUGHT GRANT PROGRAM – SUMMARY COMPLETION REPORT \(PA22#2020.10\)](#)..... 45
Presenter: Mark Norton
Recommendation: Receive and file.

5. **FUTURE AGENDA ITEMS**

6. **ADJOURNMENT**

PLEASE NOTE:

Americans with Disabilities Act: Meeting rooms are wheelchair accessible. If you require any special disability related accommodations to participate in this meeting, please contact (951) 354-4220 or kberry@sawpa.org. Notification at least 48 hours prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.org, subject to staff’s ability to post documents prior to the meeting.

Declaration of Posting

I, Kelly Berry, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on July 7, 2020, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.org and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

/s/

Kelly Berry, CMC

2020 Project Agreement 22 Committee Regular Meetings

[Revised January 23, 2020]

Second Tuesday of Every Month

(Note: All meetings begin at 8:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January 1/23/20 Regular Committee Meeting	February 2/27/20 Regular Committee Meeting [cancelled]
March 3/10/20 Regular Committee Meeting	April 4/14/20 Regular Committee Meeting [cancelled]
May 5/12/20 Regular Committee Meeting [cancelled]	June 6/9/20 Regular Committee Meeting [cancelled]
July 7/14/20 Regular Committee Meeting	August 8/11/20 Regular Committee Meeting
September 9/8/20 Regular Committee Meeting	October 10/13/20 Regular Committee Meeting
November 11/10/20 Regular Committee Meeting	December 12/8/20 Regular Committee Meeting

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PROJECT AGREEMENT 22 COMMITTEE
Interregional Landscape Water Demand Reduction Program
REGULAR MEETING MINUTES
March 10, 2020

COMMITTEE MEMBERS PRESENT

Michael Markus, General Manager, Orange County Water District [Vice Chair]
Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency
Heather Dyer, General Manager, San Bernardino Valley Municipal Water District
Craig Miller, General Manager, Western Municipal Water District

COMMITTEE MEMBERS ABSENT

Paul D. Jones, General Manager, Eastern Municipal Water District [Chair]

STAFF PRESENT

Rich Haller, Mark Norton, Dean Unger, Ian Achimore, Kelly Berry, Zyanya Ramirez

OTHERS PRESENT

T. Milford Harrison; Andrew D. Turner, Lagerlof, LLP

1. CALL TO ORDER

The PA22 Committee meeting was called to order at 8:31 a.m. by Vice Chair Markus at the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California.

2. PUBLIC COMMENTS

There were no public comments.

3. APPROVAL OF MEETING MINUTES: JANUARY 23, 2020

MOVED, approve the January 23, 2020 meeting minutes.

Result:	Adopted (Passed)
Motion/Second:	Deshmukh, Miller
Ayes	Markus, Deshmukh, Dyer, Miller
Nays:	None
Abstentions:	None
Absent:	Jones

4. COMMITTEE DISCUSSION ITEMS

A. ADOPTION OF SUB-AGREEMENT AMENDMENTS | CHINO HILLS AND RANCHO CALIFORNIA WATER DISTRICT (PA22#2020.5)

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 14-24.

The Proposition 84 Integrated Regional Water Management Drought Grant executed between SAWPA and the Department of Water Resources includes two projects: 1) Project 1 – Conservation Based Reporting Tools and Rate Structure Implementation (Project 1), and 2) Project 2 – High Visibility Turf Removal and Retrofit (Project 2).

Project 1's total grant budget is \$6,435,676. As of January 31, 2020, \$160,945 remained to be

utilized. In order to fully use the budgeted grant funds, SAWPA proposes to allocate the remaining funds as follows:

- \$40,000 to Chino (Water Rates)
- \$91,700 to Chino Hills (Water Rates)
- \$25,745 to Rancho California Water District (IRWM Project Management)
- \$3,500 ESRI (Aerial Imagery Dashboard)

Allocations to the City of Chino Hills and Rancho California Water Districts will require amendments to their respective agreements. Both agencies are implementing Conservation-Based Water Rates.

MOVED, to ensure the Drought Grant's program savings for the Conservation Based Reporting Tools and Rate Structure Project are utilized, authorize the General Manager to execute the following documents:

1. Amendment No. 2 to the Proposition 84 Integrated Regional Water Management Program ("IRWMP") 2014 Drought Solicitation Implementation Grant Funding Contract with the City of Chino Hills for an amount not to exceed \$1,184,000 in grant funding, reflecting an increase of \$40,000 from \$1,144,005 to \$1,184,000; and,
2. Amendment No. 1 to the Proposition 84 Integrated Regional Water Management Program ("IRWMP") 2014 Drought Solicitation Implementation Grant Funding Contract with Rancho California Water District for an amount not to exceed \$25,745 in grant funding, which ensures the grant funding obligation of \$1,103,110 to the USMW is met.

Result:	Adopted (Passed)
Motion/Second:	Miller/Dyer
Ayes	Markus, Deshmukh, Dyer, Miller
Nays:	None
Abstentions:	None
Absent:	Jones

B. ADOPTION OF SUB-AGREEMENT AMENDMENT | INLAND EMPIRE UTILITIES AGENCY (PA22#2020.6)

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 33-41.

The Proposition 84 Integrated Regional Water Management (IRWM) Drought Grant executed between SAWPA and the Department of Water Resources includes two projects: 1) Project 1 Conservation Based Reporting Tools and Rate Structure Implementation (Project 1), and 2) Project 2 – High Visibility Turf Removal and Retrofit (Project 2).

To ensure that cost savings from Project 2 were utilized before the deadline, staff allocated the cost savings on a "first come, first serve" basis amongst the project leads in the Fall of 2019. The Inland Empire Utilities Agency (IEUA) was the only agency that submitted reimbursement costs of \$117,865 to SAWPA under this process. This amount would total their grant funding under Project 2 to \$1,256,865.

To process IEUA's last invoice, the execution of a sub-grantee agreement amendment with IEUA is needed. This would increase the total Proposition 84 IRWM Drought Grant funding from \$6,306,569 to \$6,424,434.

MOVED, to authorize the General Manager to execute Amendment No. 1 to the Proposition 84 Integrated Regional Water Management Program ("IRWMP") 2014 Drought Solicitation Implementation Grant Funding Contract with the Inland Empire Utilities Agency (IEUA) for an amount not to exceed \$117,865 in grant funding for the Turf Removal and Retrofit Project increasing the grant funding to IEUA from \$6,306,569 to \$6,424,434.

Result: **Adopted (Passed)**
Motion/Second: Dyer/Miller
Ayes Markus, Deshmukh, Dyer, Miller
Nays: None
Abstentions: None
Absent: Jones

C. SMARTSCAPE UPDATE (PA22#2020.7)

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 49-55.

The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) is funded through local match from the SAWPA member agencies and the Proposition 84 Integrated Regional Water Management (IRWM) 2015 Round Grant with the Department of Water Resources. Within SARCCUP, the Smartscape Program focuses on water use efficiency and was designed to implement various turf removal rebates. The Orange County Coastkeeper (OCCK) is the project partner and lead to implementing the Smartscape Program and the SAWPA member agencies are the lead for requesting tasks to be completed by OCCK.

As of December 31, 2019, the Smartscape Program is 85% implemented. It is estimated that the project will be completed in the San Bernardino Valley Municipal Water District service area by May 2020 and in the Western Municipal Water District service area by July 2020.

The Inland Empire Utilities Agency had much success with implementing improvements to customer's private properties that after spending their Smartscape Program allocated monies they continue to offer their Smartscape Program services through other funding sources.

This item was for informational and discussion purposes; no action was taken on Agenda Item No. 4.C.

5. FUTURE AGENDA ITEMS

- None.

6. ADJOURNMENT

There being no further business for review, the meeting ended at 8:52 a.m.

Approved at a Regular Meeting of the Project Agreement 22 Committee on Tuesday, July 14, 2020.

Paul D. Jones, Chair

Attest:

Kelly Berry, CMC
Clerk of the Board

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PA 22 COMMITTEE MEMORANDUM NO. 2020.8

DATE: July 14, 2020

TO: Project Agreement 22 Committee

SUBJECT: Approval of Cost Share Allocation – Enhancements to Watershed-Wide Water Budget Decision Support Tool

PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Approve staff's recommended funding allocation for the upper watershed SAWPA member agencies based on population, square mileage, and parcel amount in their service areas to acquire three-inch aerial imagery for the Enhancements to Watershed-Wide Water Budget Decision Support Tool Project and their own uses.

DISCUSSION

Per the PA 22 Committee's approval on March 28, 2019, SAWPA submitted a proposal to the Bureau of Reclamation (Reclamation) under their WaterSMART Water Management Options Pilot Program and the Department of Water Resources (DWR) under the Proposition 1 Integrated Regional Water Management (IRWM) Round 1 grant for the Enhancements to Watershed-Wide Water Budget Decision Support Tool Project. At the March 28, 2019 PA 22 Committee meeting, the Committee also approved authorization of cost share for the project, but specific amounts by member agency were not determined at the time. SAWPA was successful in being awarded the full amount requested from Reclamation, \$597,500, and from DWR, \$500,000.

The PA 22 Committee at their January 23, 2020 meeting requested a breakdown by agency of the cost share. SAWPA staff has worked with the SAWPA member agency member agencies and developed the following cost share allocation for three-inch resolution (four color band) imagery that averages three criteria of their service areas:

- Population,
- Square Mileage,
- Parcel Amount.

The allocation amounts by agency are driven by the costs to acquire three-inch aerial imagery in the upper watershed through a SAWPA consultant, which is estimated to cost \$481,207. SAWPA would have to go through a request for proposals process to acquire a consultant to capture this imagery near the summer solstice in 2021 to minimize shadow interference. The imagery would be available to the member agencies, in addition to being available for the Project.

Three-inch resolution (four color band) imagery in Orange County is already available through a partnership with the Southern California Association of Governments (SCAG) that Orange County Water District and the Municipal Water District of Orange County have committed to. They have committed to fund \$150,000 of SCAG's costs.

Staff's recommended cost share allocation for the upper watershed using the three criteria is provided below.

Table 1. Recommended Cost Share Allocation for the Upper Watershed

Agency	Criteria						Average of 3 Criteria	
	Pop2018	Pop2018 %	Mi2	Mi2 %	Parcels	Parcels %		
EMWD	820,818	25%	557	33%	264,175	28%	29%	\$ 137,881
IEUA	864,624	26%	239	14%	231,651	24%	22%	\$ 103,903
SBVMWD	701,569	21%	352	21%	183,806	19%	21%	\$ 98,826
WMWD	926,840	28%	518	31%	272,125	29%	29%	\$ 140,597
Total	3,313,851	100%	1,666	100%	951,757	100%	100%	\$ 481,207

The benefits to SAWPA and the SAWPA member agencies for committing this cost share include:

- Ensures the same type of watershed imagery as used in 2015 for comparisons over time,
- High resolution three-inch data provides additional benefits and helps agencies with budget-based rates, regulatory compliance, service-wide operations, etc.,
- The Project uses the Bureau of Reclamation's Geographic Applications and Analysis Group expertise and software, and
- T Project saves an estimated 4,775 acre-feet per year.

BACKGROUND

The Enhancements to Watershed-Wide Water Budget Decision Support Tool Project will entail the following tasks:

1. Acquiring high resolution aerial imagery for the urbanized Santa Ana River Watershed, as well as areas within southern Orange County and the areas outside the watershed but within Eastern and Western Municipal Water District's service areas.
2. Analyze the data to create new and updated water budgets at the parcel level, as well as the customer meter level where possible.
3. Create a web-based tool so interested retail water agencies in the Project area can easily view the data, upload their customer water usage information to compare budgets to actual use in a secure private platform, and modify water budgets based on customer input or site visits to the parcel.

The time frame to complete this project is approximately three years (from early 2020 to late 2022) at an estimated total cost of \$1,728,707 as shown in the budget below:

Table 2. Overview of Project Budget

Prop 1 IRWM Grant	Reclamation Support	Cost Share (Upper Watershed and OC)	Total Cost
\$500,000	\$597,500	\$631,207	\$1,728,707

The Project will create water budgets based on efficiency at the customer and retail water agency scale through the collection of aerial imagery, weather and other data. It will then be implemented by analyzing high resolution imagery with the aid of imagery processing software to create area measurements of vegetation that is deemed to be irrigated (or has the potential to be irrigated) by the software. By making the water budgets available to retail water agencies through an online decision support tool, retail water agency staff will be able to compare the Project's water budgets and their customer's usage.

CRITICAL SUCCESS FACTORS

The following OWOW critical success factors are addressed by this action:

1. Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
2. Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

The cost share to the upper watershed SAWPA member agencies per the recommendation is shown above in Table 1.

Attachments:

1. PowerPoint Presentation

Approval of Cost Share Allocation - Enhancements to Watershed-Wide Water Budget Decision Support Tool

Ian Achimore, Senior Watershed Manager

PA 22 Committee | July 14, 2020

Item No. 4.A.

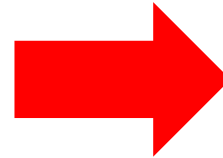


New Water Conservation Legislation*



Requires the following data to calculate agency-wide “objectives” (water budgets):

- A. Indoor residential.
- B. Outdoor residential.
- C. Outdoor dedicated irrigation meters.
- D. Efficient water losses (pipe leaks).
- E. Approved variances (water use by horse corrals).



New Project before the Committee will help retail agencies with these categories.

*Assembly Bill 1668 and Senate Bill 606

Enhancements to Watershed-Wide Water Budget Decision Support Tool Scope

- ▶ **Task 1 - Imagery:** Evaluate and acquire imagery to evaluate landscape for the entire urbanized Santa Ana River Watershed and South Orange County.
- ▶ **Task 2 - Landscape Analysis:** Measure landscapes with sufficient detail to provide customer parcel level outdoor water budgets to water retail agencies to support the achievement of water efficiency targets prescribed by the State.
- ▶ **Task 3 - Decision Support Tool:** Deploy tool to enable retail agencies to analyze customer water use data to assess customer efficiency, target water over use, and serve as a mechanism for customer outreach.

Bureau of Reclamation Role



— BUREAU OF —
RECLAMATION

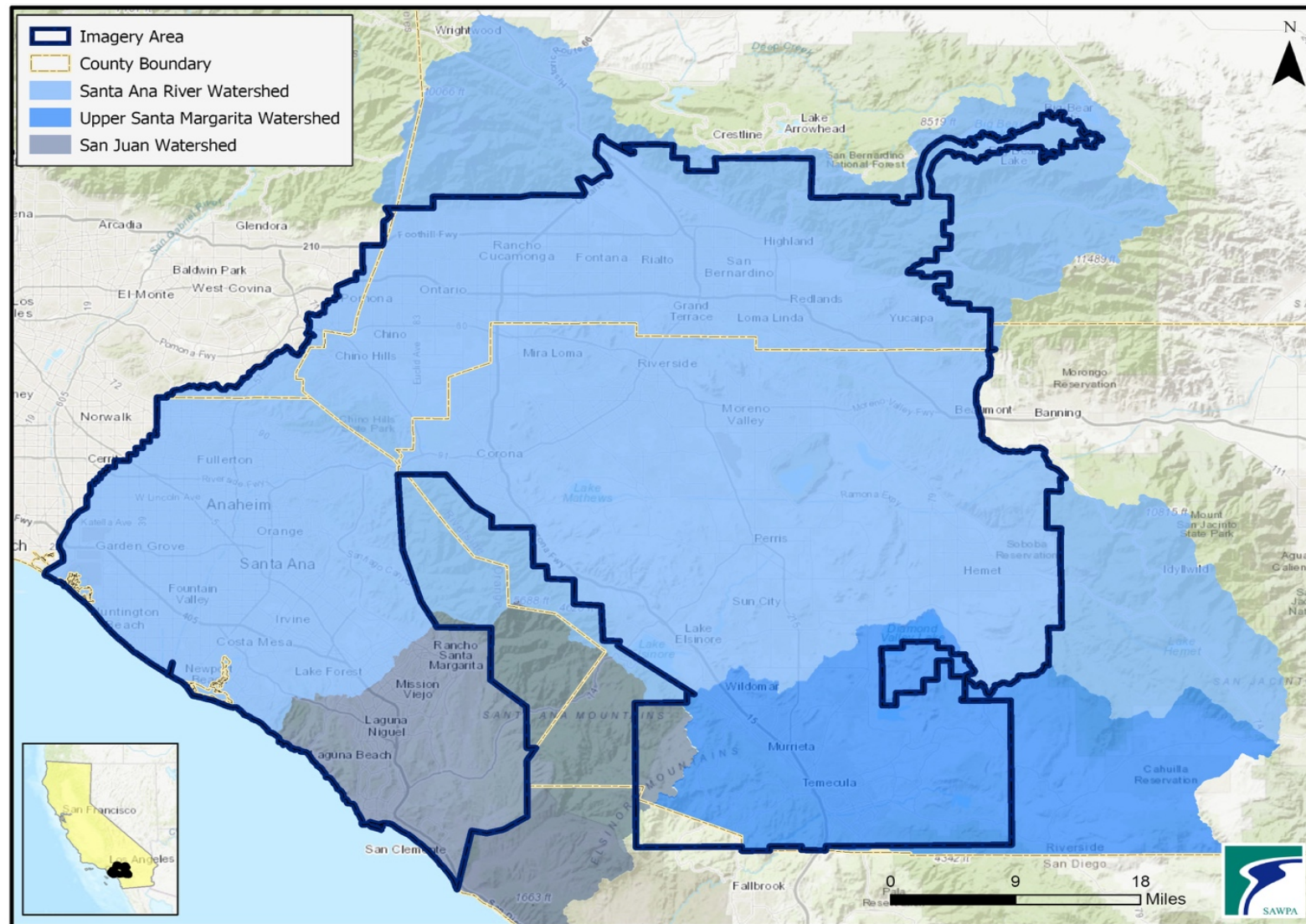
- ▶ SAWPA successful in WaterSMART Program application to the Bureau in 2019.
 - ▶ PA 22 Committee approved application March 2019.
- ▶ Bureau partnership allows them to provide \$597,500 worth of staff time expertise (in-kind services).
- ▶ The Bureau's Geographic Applications & Analysis in Denver will analyze the imagery and create water budgets at the parcel level.
- ▶ Bureau's policy = won't purchase imagery, that's the role of the project partner.

Proposition 1 Grant Award

- ▶ SAWPA submitted application to DWR in November 2019 for Prop 1 Integrated Regional Water Management Round 1 funding.
 - ▶ Amount requested = **\$500,000**.
 - ▶ Committee approved application in March 2019.
 - ▶ Bureau in-kind services plus Prop 1 funding equals **\$1,097,500** in State/Federal funding.
- ▶ DWR announces final funding award in early June 2020.
 - ▶ Project receives full funding award.



Imagery Area for New Project



Same as 2015 flight area but now includes South OC.

Imagery Options

<u>Area Captured</u>	<u>Option</u>	<u>Products Provided</u>	<u>Capture Time</u>
Orange County	Southern CA Association of Governments (SCAG)/Pictometry	3-inch, 4-band imagery; building footprints; viewer tool	July 2020
Riverside County	SCAG/Pictometry	3-inch, 4-band imagery; building footprints; viewer tool	January 2020
San Bernardino County	SCAG/Aero Graphics	6-inch, 4-band imagery; building footprints; viewer tool	February 2020
Upper Watershed	Satellite	11.8-inch, 4-band imagery	Every Year*
Upper Watershed	SAWPA RFP	3-inch, 4-band imagery	June 2021

*Approximately 8 shots (to capture the upper watershed) taken over several weeks

Imagery Options for Upper Watershed

- World View 3 Satellite Estimated Cost for Upper Watershed = **\$280,480**
- 3 Inch Aerial Imagery Estimated Cost for Upper Watershed = **\$481,207**

11.8-inch Satellite



3-inch Aerial Imagery



Pros and Cons of Different Imagery Types

Satellite {
Con: Not that useful for other purposes.
Pro: Faster turnaround for Bureau analysis.
Pro: Great for continual measurements in comparison to baselines/historical records.

Aerial {
Pro: Great for other uses*.
Pro: More accurate than satellite.
Con: Requires more costs to manage (flight plan, RFP), more costly to acquire.

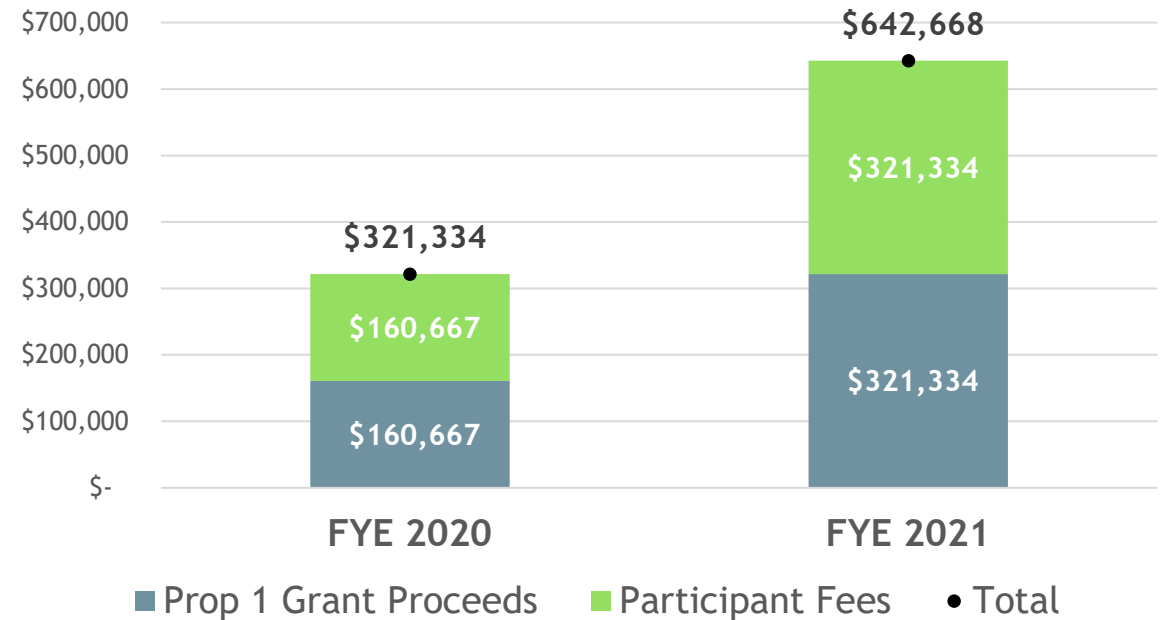
Member agency staff and MWDOC interested in 3inch aerial imagery.

*Maintenance access structure locating, facilities planning, customer billing portal for agency with budget-based rates, etc.

PA 22 Committee Action Related to Project

- ▶ **March 28, 2019:** PA 22 approves project submission to DWR for Prop 1, USBR for WaterSMART application and providing local cost share support.
- ▶ **June 27, 2019:** PA 22 approves Committee budget with line items included for Project (see Prop 1 Capital Projects Fund 505 chart).
- ▶ **January 23, 2020:** PA 22 adopts MOU with USBR to implement Project.
 - ▶ Committee agrees to provide cost share if grant is successful.

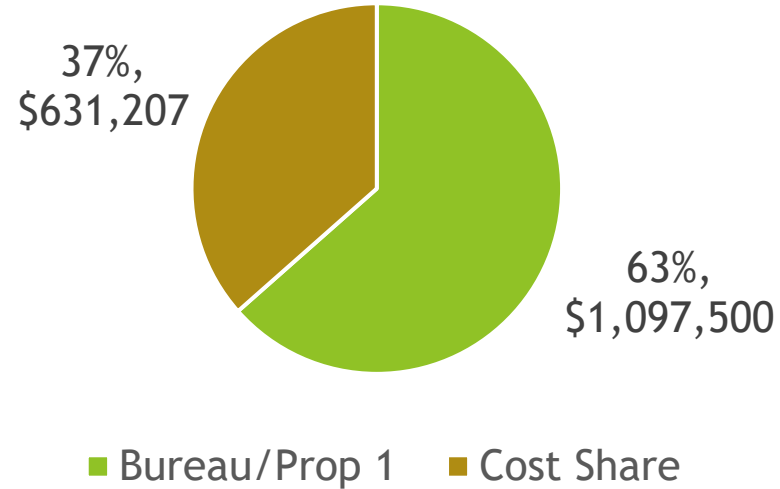
Prop 1 Capital Projects - Fund 505



Source of Funds	Two Year Total
Prop 1 Grant Proceeds	\$ 482,001
Participant Fees	\$ 482,001
Total	\$ 964,002

“Participant Fees” are provided by PA 22 Committee as local cost share

Updated* Project Budget



Total costs
\$1,728,707

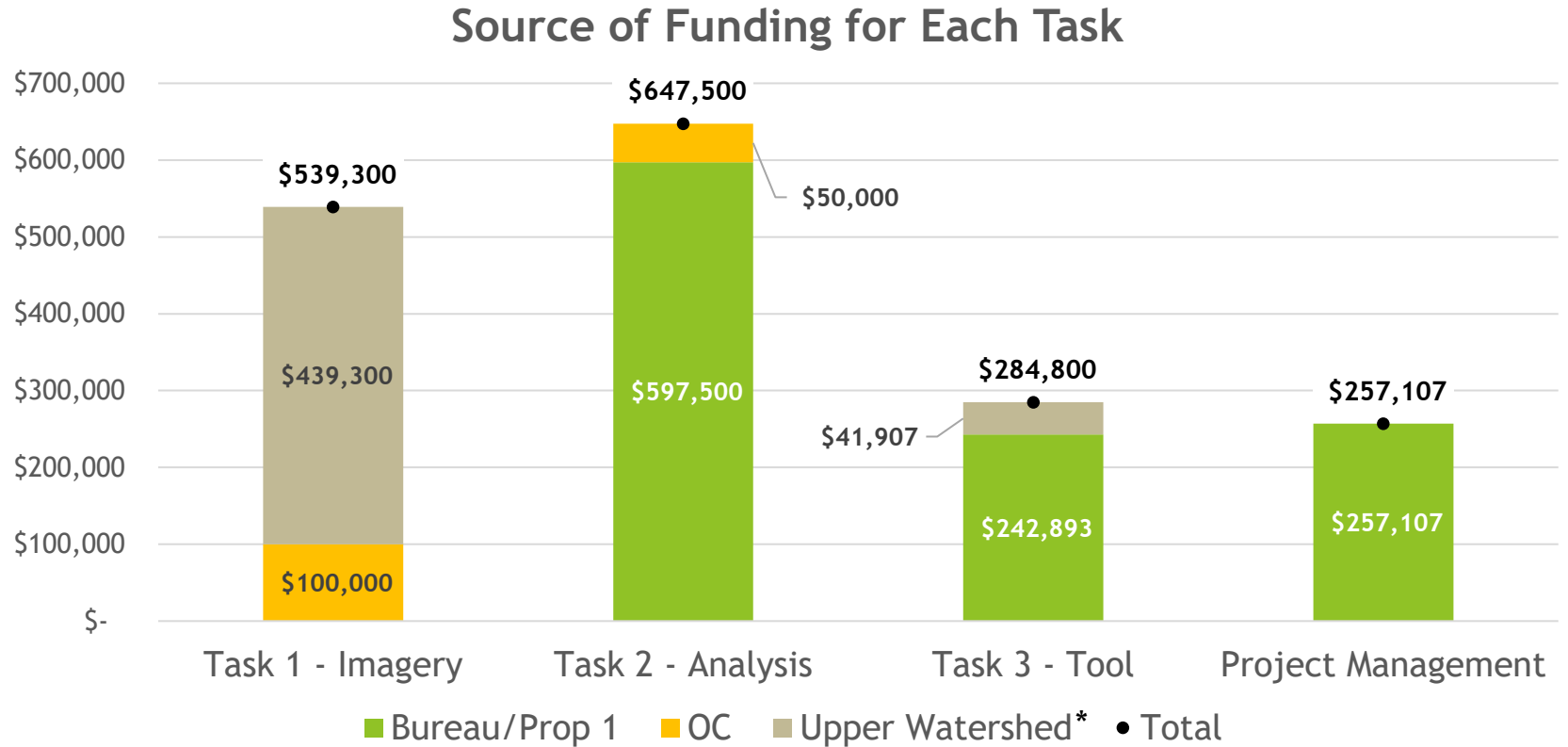
Project Schedule

	2020				2021				2022			
	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Flight and Creation of Imagery												
Analysis and Budget Calculations												
Quality Control												
Decision Support Tool												

*Updated = Now includes successful USBR partnership and refined imagery costs.

Updated Project Budget and Sources of Funding

- ▶ Upper Watershed costs driven by cost of 3-inch aerial flight.
- ▶ Orange County (OC)* costs driven by cost share required for SCAG/Pictometry.
- ▶ Upper Watershed helps pay for Tool; OC helps pay for analysis.

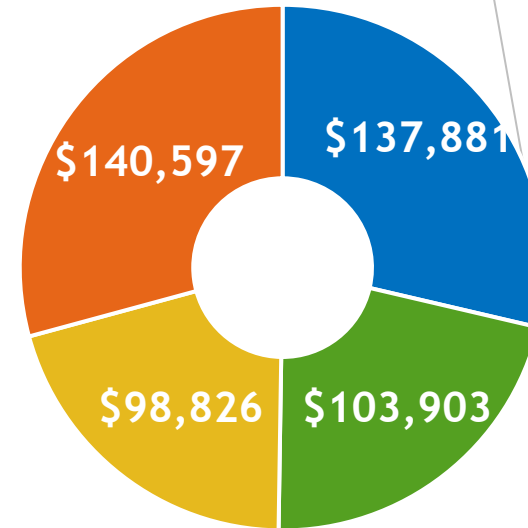


Total costs = \$1,728,707

Note: OC costs in chart = OCWD and MWDOC cost share.

Allocating the Cost Share of \$481,207

- ▶ Averages three criteria of the four upper watershed member agencies:
 - ▶ Population,
 - ▶ Amount of parcels, and
 - ▶ Square mileage.
- ▶ For EMWD and WMWD, their entire service areas were included (i.e. areas outside of SAR Watershed too)
- ▶ Suggested allocation reviewed and supported by Conservation Advisory Workgroup



■ EMWD ■ IEUA ■ SBVMWD ■ WMWD

Upper Watershed Agency	Average of 3 Criteria	
EMWD	29%	\$ 137,881
IEUA	22%	\$ 103,903
SBVMWD	21%	\$ 98,826
WMWD	29%	\$ 140,597
Total	100%	\$ 481,207

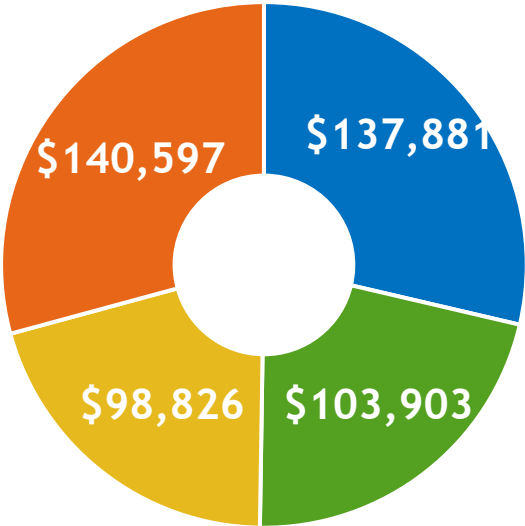
Benefits to SAWPA and Member Agencies

- ▶ Ensures the same type of watershed imagery as used in 2015 for comparisons over time,
- ▶ High resolution three-inch data provides additional benefits and helps agencies with budget-based rates, regulatory compliance, service-wide operations, etc.,
- ▶ Project uses the Bureau of Reclamation's Geographic Applications and Analysis Group expertise and software, and
- ▶ Project saves an estimated 4,775 acre-feet per year.



Recommendation

Approve staff’s recommended funding allocation for the upper watershed SAWPA member agencies based on population, square mileage and parcel amount in their service areas to acquire three-inch aerial imagery for the Enhancements to Watershed-Wide Water Budget Decision Support Tool Project and their own uses.



■ EMWD ■ IEUA ■ SBVMWD ■ WMWD

Additional Information - Detailed Table Showing Criteria Calculations

Agency	Criteria						Average of 3 Criteria	
	Pop2018	Pop2018 %	Mi2	Mi2 %	Parcels	Parcels %		
EMWD	820,818	25%	557	33%	264,175	28%	29%	\$ 137,881
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SBVMWD	701,569	21%	352	21%	183,806	19%	21%	\$ 98,826
WMWD	926,840	28%	518	31%	272,125	29%	29%	\$ 140,597
Total	3,313,851	100%	1,666	100%	951,757	100%	100%	\$ 481,207

Notes:

- Population data from US Census Bureau's latest American Community Survey
- Parcel data from County Accessors' Offices
- Criteria factors in EMWD and WMWD's services areas outside the SAR Watershed

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PA 22 COMMITTEE MEMORANDUM NO. 2020.9

DATE: July 14, 2020
TO: Project Agreement 22 Committee
SUBJECT: Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Smartscape Task Completion
PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

DISCUSSION

The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) includes several projects including the water use efficiency focused Smartscape Program. The Program was designed to continue the momentum of the various turf removal rebates that were offered by the Emergency Drought Grant Program and train water agency customers to maintain their drought-tolerant landscapes. Orange County Coastkeeper (OCCK) is a project partner and the lead for implementing Smartscape while SAWPA manages the agreement with OCCK. The SAWPA member agencies are the lead for requesting tasks to be completed by OCCK.

The timeframe for Smartscape implementation per the PA 22 Committee approved Smartscape Roles and Responsibilities Memo is from March 2018 to March 2020 and each agency has a \$96,509 allocation to spend by using the services of OCCK.

With \$386,199 in invoices received through June 30, 2020 as shown in Table 1, the Smartscape Program is completely implemented. A summary of the work completed in the Smartscape Program will be included in the final SARCCUP Project Report. The final SARCCUP Project Report is due to the Department of Water Resources grant management staff when the overall SARCCUP Project (including the habitat and conjunctive use tasks) is complete.

Table 1
Smartscape Spending Through June 30, 2020

Agency:	EMWD	IEUA	SBMVWD	WMWD	Total
Allocation	\$96,509	\$96,509	\$96,509	\$96,509	\$386,036
Invoiced	\$96,875	\$96,349	\$96,525	\$96,450	\$386,199
Remaining	(\$366)*	\$160	(\$16)*	\$59	(\$165)*

*SAWPA has small contingency to handle minor overages.

CRITICAL SUCCESS FACTORS

- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

None.

Attachment:

- PowerPoint Presentation

Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Smartscape Task Completion

Ian Achimore, Senior Watershed Manager

PA 22 Committee | July 14, 2020

Item No. 4.B.



Program Development and Task List

- ▶ Smartscape is a partnership between SAWPA member agencies and OC Coastkeeper, developed in 2015 during SARCCUP initial grant application effort;
- ▶ Supports water customers that have transitioned from turf grass to drought tolerant landscaping through specific tasks:
 - ▶ Landscape site visits
 - ▶ Develop written training materials
 - ▶ Workshops, training, etc.
- ▶ Makes physical improvements to irrigation systems (prevents leaks and overwatering)



INLAND EMPIRE WATERKEEPER.
Advocacy • Education • Research • Restoration • Enforcement



ORANGE COUNTY
COASTKEEPER.

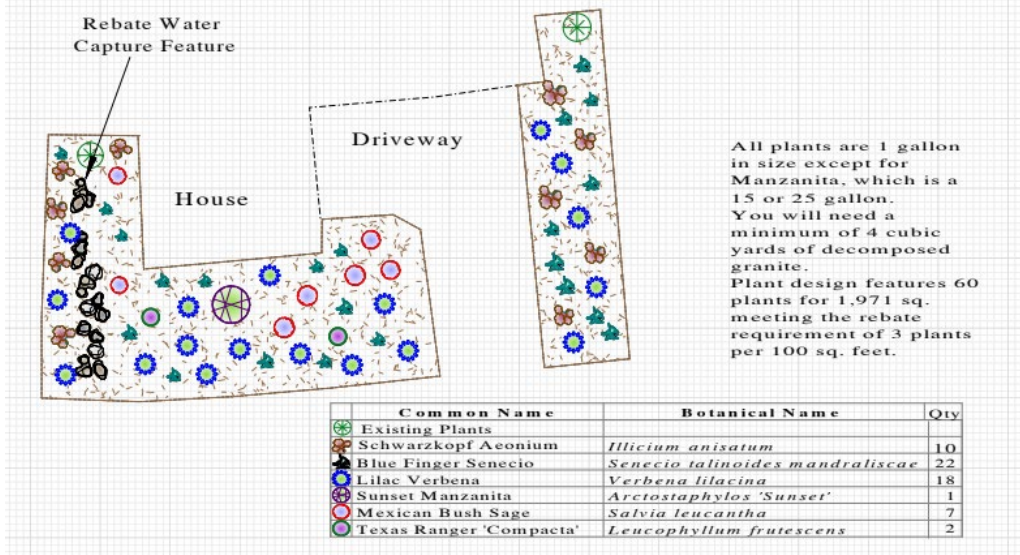
Program Overview

- ▶ Program descriptions contained in Sub-Agreement and SAWPA Member Agency Roles/Responsibilities Memo:
 - ▶ Defines two-year schedule (March 2020 end date)
 - ▶ Defines scope and qualifications for OCCK training and outreach personnel
 - ▶ Task list and their specific costs
 - ▶ Deliverables:
 - ▶ Photo verification;
 - ▶ Customer forms; and
 - ▶ Reports on work completed.



Examples of Tasks Implemented

Custom Landscape Designs - WMWD



Revision #: Scale: Landscape Plan: Landscape Design by:
 Date: 4/4/2019 3/32" = 1' Burnham Residence Inland Empire Waterkeeper



Inland Empire Grasses


Many grasses and grass-like plants thrive in our Mediterranean climate. Needing little water or care, these beautiful plants will provide you with year-round color and interest!

- 1 - Louis Edmunds Manzanita - *Arctostaphylos bakeri* 'Louis Edmunds'. This native shrub is a companion plant for grasses and attracts hummingbirds.
- 2 - Feather Reed Grass - *Calamagrostis x acutiflora* 'Karl Foerster'. Feather reed grass is most notable for its fall accent character.
- 3 - Berkeley Sedge - *Carex divulsa*. Mounding perennial grass-like plant with clumping growth and fine textured green leaves.
- 4 - Deer Grass - *Muhlenbergia rigens*. Long arching cream colored panicles provide a striking silhouette.
- 5 - Canyon Prince Wild Rye - *Leymus condensatus* 'Canyon Prince'. Native grass with distinctive blue-green foliage.
- 6 - Small Cape Rush - *Chondropetalum tectorum*. Clumping perennial with brown flower clusters adding interest and texture to the garden.



Smartscape Budget

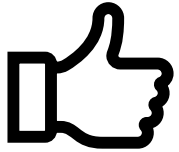
	Grant Amount	Local Match*	Total Cost
Coastkeeper Sub-Agreement Amount	\$122,000	\$278,000	\$400,000



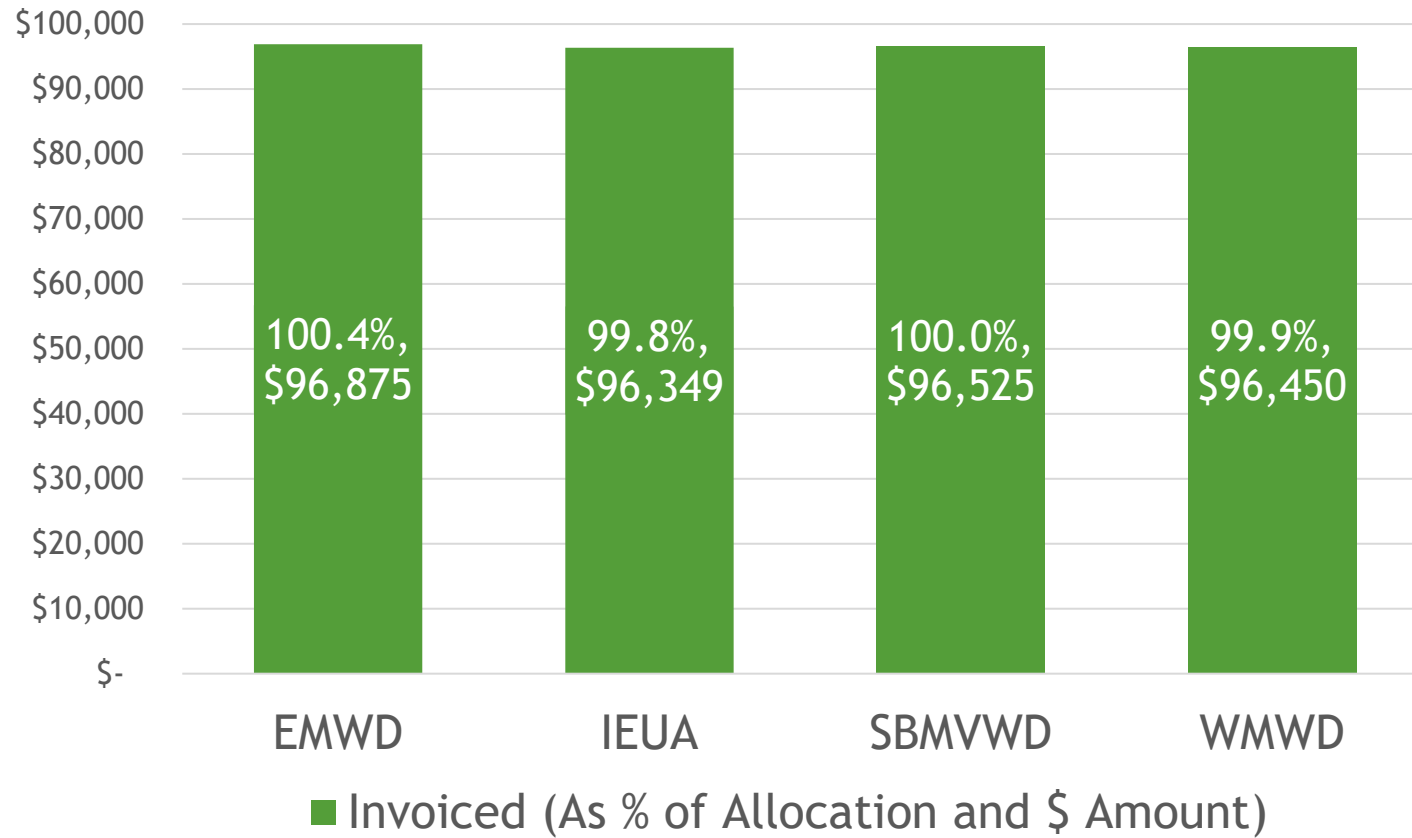
Each of the four* SAWPA member agencies allocated an equal split of grant and local match = **approximately \$100,000 each.**

*OCWD's SARCCUP local cost share funding originally intended for Smartscape was added to Conservation-Based Water Rates portion of SARCCUP based on PA 22 Committee direction and OCWD request.

Smartscape Spending to Date (June 2020)



Project Fully Implemented



Note: Each agency was allocated \$96,509. SAWPA has small contingency to handle minor overages.

Going Forward



- ▶ Submit summary of invoices and work completed in the SARCCUP Project Final Report to the Department of Water Resources (DWR) by December 2023.
- ▶ Release retention to Orange County Coastkeeper (currently held by DWR).

Lessons Learned

(Still following up with member agency and Coastkeeper staff)

- ▶ Irrigation tune-ups, used in IEUA service area, are very popular with residential customers.
 - ▶ Conduct post-project interviews with participating residential customers to see if they have saved water and been thoroughly educated on irrigation maintenance.
- ▶ Pairing custom landscape design and turf rebates applications appeared successful.

Questions

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PA 22 COMMITTEE MEMORANDUM NO. 2020.11

DATE: July 14, 2020
TO: Project Agreement 22 Committee
SUBJECT: Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Water Budget Assistance
PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

DISCUSSION

A verbal update will be provided on the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Water Budget Assistance task. It is estimated that SAWPA can begin implementing this task by September 2020 by developing a request for proposals to select qualified consultant(s).

BACKGROUND

Initially, the SARCCUP scope of work in the Department of Water Resources (DWR) Proposition 84 Integrated Regional Water Manage (IRWM) 2015 Round grant agreement included the Budget-Based Water Rates task in order to build on the success of the Emergency Drought Grant Program (funded by a prior round of Proposition 84 IRWM funding). The Emergency Drought Grant Program assisted/funded nine agencies with their budget-based rates studies. Three ultimately adopted budget-based rates (Chino, Chino Hills and East Valley Water District) after the rate studies were presented to their elected boards. It was thought that SARCCUP could further assist more retail agencies in the watershed by incentivizing them to study, and hopefully, implement budget-based rates.

The PA 22 Committee previously approved removing the SARCCUP Project’s budget-based rates task and replacing it with the Water Budget Assistance task. This change was submitted to DWR in the SARCCUP Amendment No. 2 request on March 24, 2020. No grant or cost share changes were made, but it did change the scope of work to focus on helping retail water agencies create outdoor water budgets for their dedicated irrigation customers such as HOAs. SAWPA will need the assistance of qualified consultant(s) to measure the areas irrigated by dedicated irrigation meters (in the field) as well as geocode the areas in a GIS database. The GIS-based measurements will be shared with the retailers who have partnered with SAWPA on this task. It is likely that SAWPA can partner with five to 10 retailers in the watershed. DWR ultimately approved the amendment to incorporate this new task on May 29, 2020. The current budget for the task is provided in Table 1 below.

Table 1. Budget for SARCCUP Water Budget Assistance Tasks

Prop 84 Grant	Match from SAWPA Member Agencies	Total
\$ 381,933	\$ 870,067	\$ 1,252,000

CRITICAL SUCCESS FACTORS

- Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
- Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

As with all SARCCUP tasks that require cost share beyond what the grant will pay for, the local match for this task is provided by the SAWPA member agencies. Per Table 1, at the end of the overall SARCCUP project schedule in September 2023, the SAWPA member agencies will have been invoiced by SAWPA for the full \$870,067, which gets invoiced in installments. Each fiscal year, SAWPA includes the amount that will be invoiced to the SAWPA member agencies for this task in the PA 22 (and SAWPA Commission) approved budget.

PA 22 COMMITTEE MEMORANDUM NO. 2020.10

DATE: July 14, 2020
TO: Project Agreement 22 Committee
SUBJECT: Emergency Drought Grant Program - Summary Completion Report
PREPARED BY: Mark Norton, Water Resources & Planning Manager

RECOMMENDATION

Receive and file this summary completion report for the Emergency Drought Grant Program.

DISCUSSION

The Project Agreement (PA) 22 Committee is nearing completion of the implementation of the \$23,505,110 Emergency Drought Grant Program (Program) which is being funded by a \$12,860,110 Proposition 84 Integrated Regional Water Management (IRWM) 2014 Drought Grant (Drought Grant) and local cost share from the SAWPA member agencies, Municipal Water District of Orange County (MWD OC), Rancho California Water District (RCWD) and Metropolitan Water District of Southern California (MWDSC). The Program is a multi-regional effort that includes the Santa Ana River Watershed Integrated Regional Water Management (IRWM) and Upper Santa Margarita Watershed IRWM areas.

A presentation describing the Program, the schedule and budget will be provided during the July 14, 2020 PA 22 Committee meeting.

The Program includes several components (also known as tasks). The Drought Grant Agreement, executed by the Department of Water Resources (DWR) and SAWPA in July 2015, separates these components into two “Projects” as shown below:

Project 1: Conservation Based Reporting Tools and Rate Structure Implementation

Component	Description	SAWPA Lead	Retail Agency Partners	Consultants
Aerial Imagery	Map the amount of living vegetation in the watershed	Dean Unger	Various agencies have received aerial imagery from SAWPA	-ESRI -Geophex -Resource Strategies - Statistical Research
Conservation-Based Water Rates	Incentive program where interested retail water agencies who have partnered under contract with SAWPA receive financial incentives to study and adopt the rate structure	Ian Achimore	-Chino -Chino Hills -Cucamonga Valley WD - East Valley WD -Garden Grove -Hemet -Rialto -San Jacinto -Tustin	-CV Strategies -Ken Baerenklau -Goal Productions

Meter Geocoding and Business Type Classification	Match water meter accounts to meter service areas for interested retail agencies	Rick Whetsel	Agencies are in the process of signing up.	Miller Spatial
Web-Based Information Tool	Allows interested retail water agencies to send customized messages to their customers based off of their water use	Rick Whetsel	-Brea -Fullerton -Loma Linda -Newport Beach -Ontario -Rialto -Tustin -Eastern MWD -Monte Vista WD -West Valley WD -Yorba Linda WD	-OmniEarth (acquired by EagleView) -Dropcountr

Project 2: High Visibility Turf Removal and Retrofit

Component	Description	SAWPA Lead	Retail Agency Partners	Implementation Agencies
High Visibility Turf Removal and Retrofit	Turf removal rebate program that provides an additional \$1 per square foot from the grant	Ian Achimore	Various retailers, as well as HOAs and other public agencies	-EMWD -IEUA -OCWD/MDOC -RCWD -SBVMWD -WMWD -MWDSC

The final deliverable for the project will be the DWR Final Summary Report which staff is preparing and plans to submit to DWR by Sept. 30, 2020. The report will reflect that all anticipated benefits and tasks as defined in the DWR agreement have been successfully completed.

BACKGROUND

The PA 22 Committee was established by the SAWPA Commission on October 17, 2014 to make policy decisions regarding water use efficiency and the implementation of water use efficiency programs. The PA 22 Committee is composed of the five SAWPA member agencies and represented by the general managers of each agency. The PA 22 Committee's primary focus to date has been on implementing the Program.

A second phase of the PA 22 Committee will focus on implementing other components not included in the Program; the new components comprise of the water use efficiency tasks included in the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP). The SARCCUP components will continue support for implementation of conservation-based budget support with additional retail water agencies, implementation of drought tolerant landscaping maintenance support program with SARCCUP partner, Orange County Coastkeeper and implementation.

CRITICAL SUCCESS FACTORS

The following OWOW critical success factors are addressed by this action:

1. Administration of the OWOW process and plan in a highly efficient and cost-effective manner.
2. Data and information needed for decision-making is available to all.

RESOURCE IMPACTS

Funding for the Project Agreement 22 Committee's Emergency Drought Grant Program came from the DWR IRWM 2014 Drought Grant Program and local member agencies, RCWD, MWDOC and MWDS. All funding and expenses are reflected in the PA 22 Committee FY19-20 and FY20-21 Budgets which are part of the approved FY19-20 and FY20-21 SAWPA Budget.

Attachments:

1. PowerPoint Presentation

Summary Report for Proposition 84 Emergency Drought Grant (Prop 84 2014 Drought Round) Program

Mark Norton, Water Resources & Planning Manager

PA 22 Committee | July 14, 2020

Item No. 4.D.

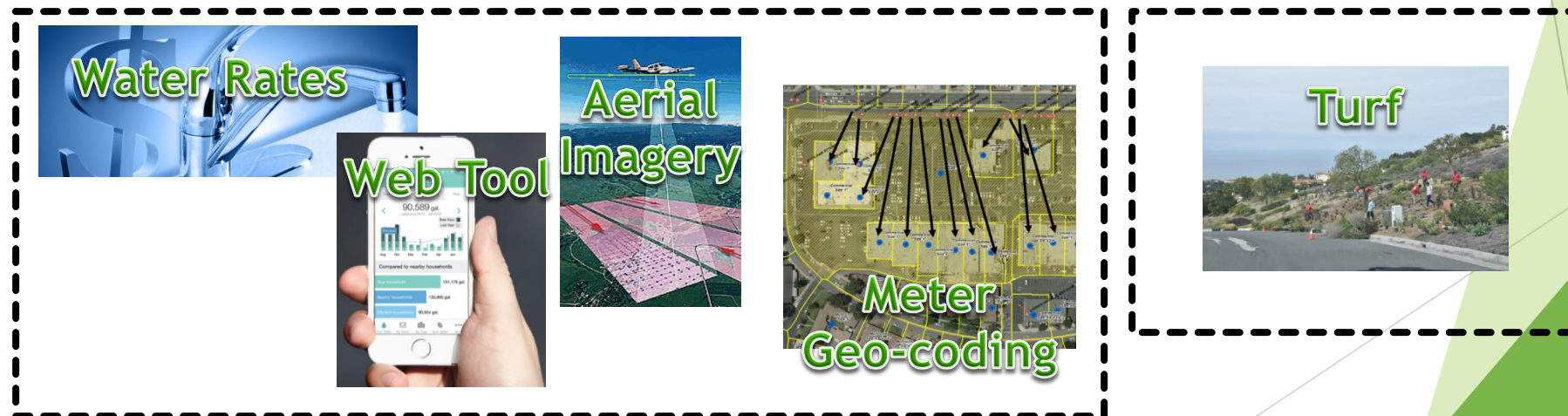


Projects included in Drought Grant Program

Project 1: Conservation Based Reporting Tools and Rate Structure Implementation



Project 2: High Visibility Turf Removal and Retrofit



*tasks/projects

Current Spending By Project

<u>Project</u>	<u>Budget Category</u>	<u>Grant Budget</u>	<u>Spent to Date</u>	<u>Remaining to Spend</u>
Project 1 (Tools, Rates, Aerial Imagery)	A - Project Mgmt	\$ 1,154,852	\$ 1,197,850	\$ 7,002
	B - Land Purchase	\$ -		
	C - Design	\$ 50,000		
	D - Implementation	\$ 5,230,824	\$ 5,209,559	\$ 21,265
	Total	\$ 6,435,676	\$ 6,407,408	\$ 28,268
Project 2 (Turf)	D - Implementation	\$ 6,424,434	\$ 6,424,434	\$ -

Notes:

-For project 1, DWR/SAWPA tracks Category A through C costs in one lump sum for ease of administration.

-Just one budget category for Project 2.

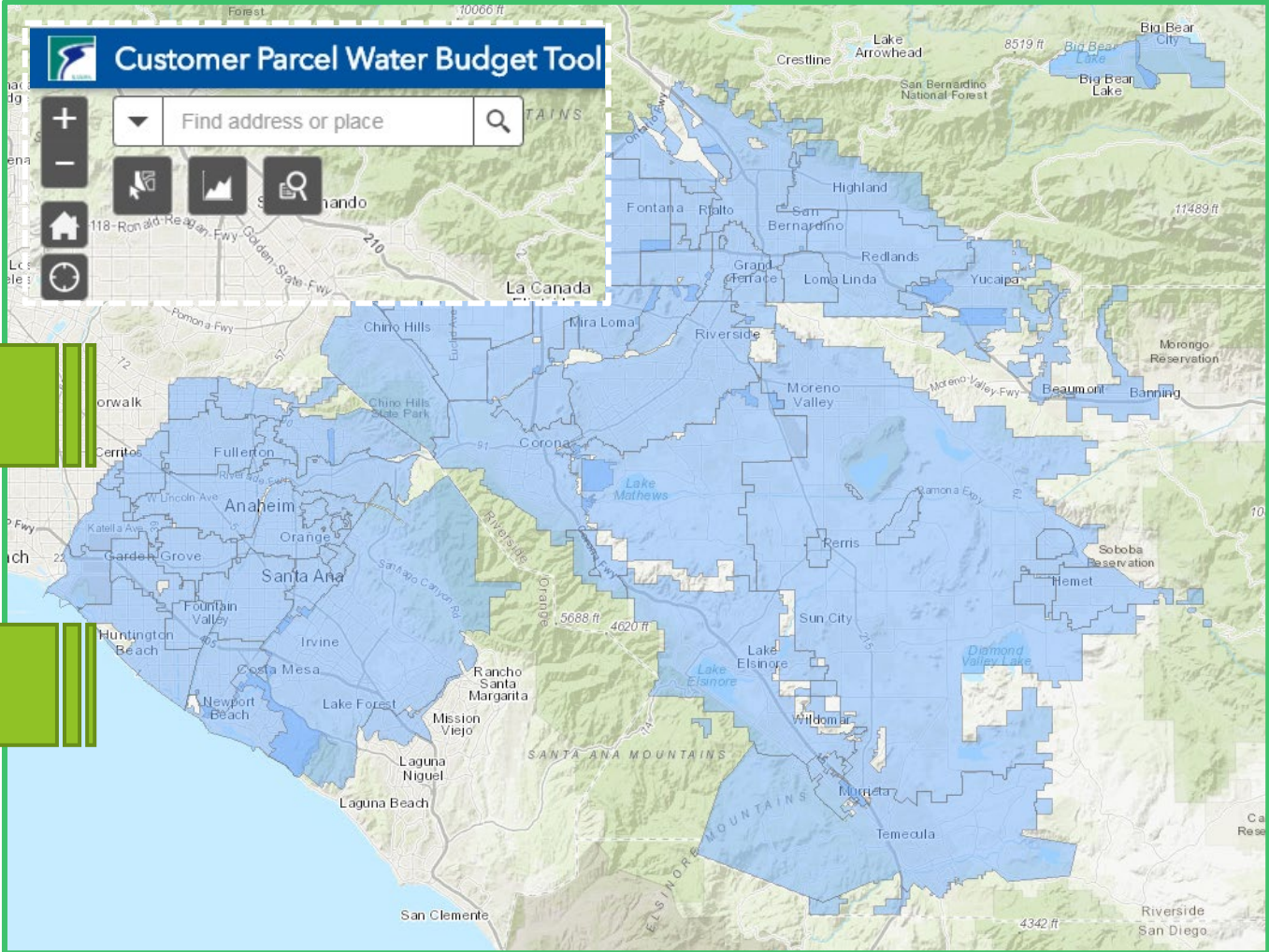
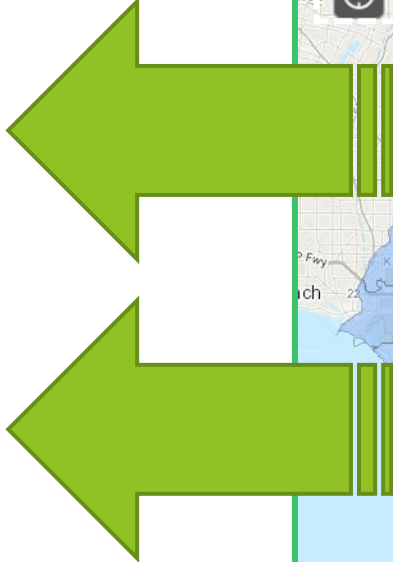
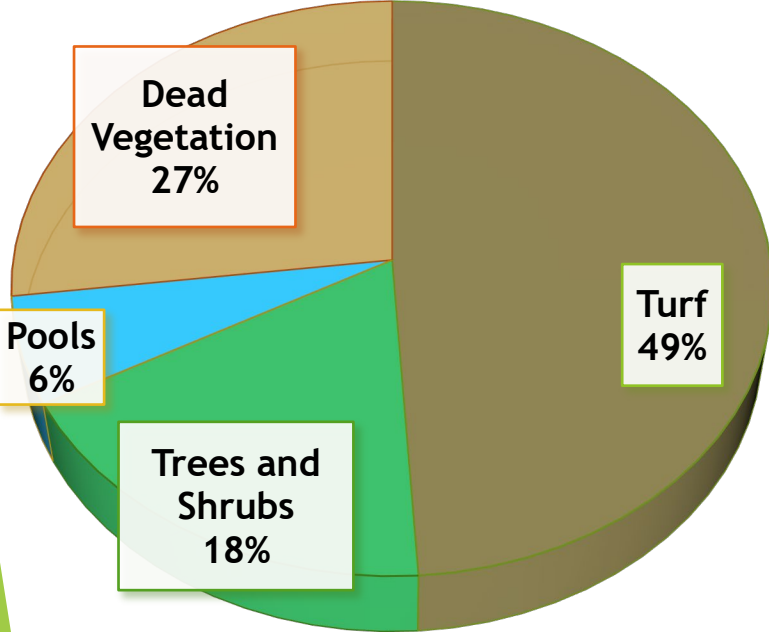
Recap of the Emergency Drought Grant Program

2015 Aerial Imagery Task

- ▶ SAWPA contracted with Geophex Ltd. and Richard Schulman (two consultants) to acquire 3-inch, four band imagery;
- ▶ Analysis done by SRI (a separate consultant) created water budgets;
- ▶ Water budgets provided to interested retail water agencies and uploaded to a web-viewer tool maintained by ESRI;



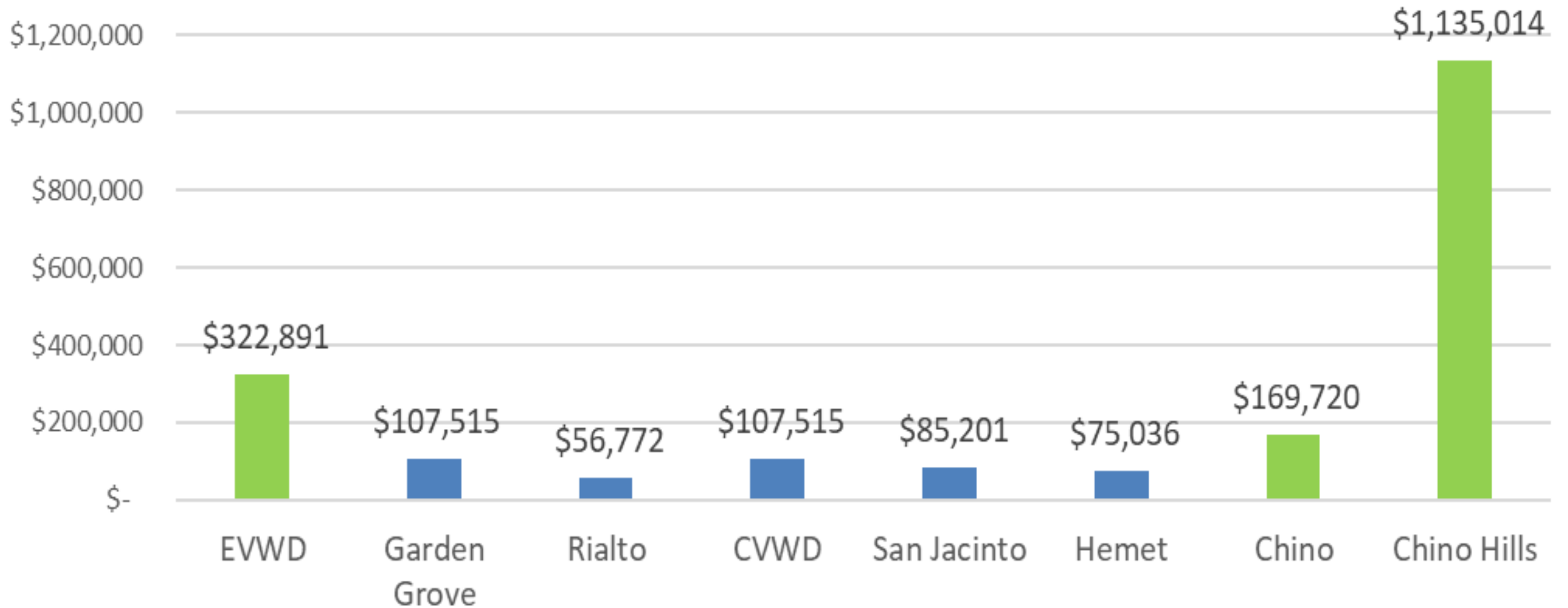
Updated Imagery will be Basis for Future Decision Support Tool



Schedule Status by Component (Project 1)

- ▶ Aerial Mapping: (Completed) July 2017
- ▶ Conservation Based Rates (Completed) June 2019
- ▶ Meter Geocoding and Business Type Classification (Completed) June 2020
- ▶ Web-Based Information Tool: (Completed) June 2018
- ▶ ESRI Customer Parcel Water Budget Tool: (Completed) October 2018
- ▶ PA 22/Grant Administration: December 2020 (the date that the grant agreement expires)
- ▶ SAWPA Implementation: Sept. 2020 (the date the projects implementation are scheduled to end)

Budget Based Water Rates Support - Invoiced

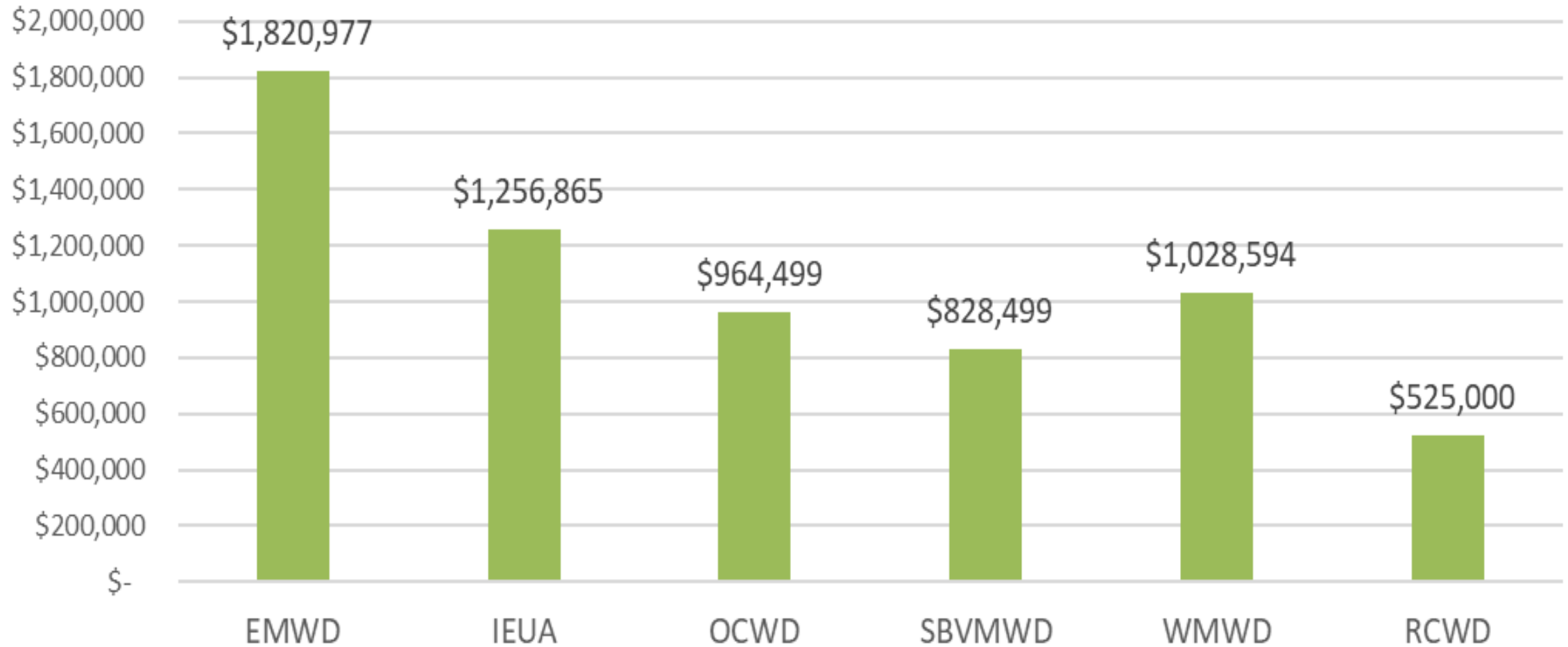


Schedule Status by Agency (Project 2)

- ▶ Turf projects are now complete
- ▶ Final invoicing paperwork completed on March 30, 2020
 - ▶ Includes rebate applications
 - ▶ Pre and post photos
 - ▶ Landscape contractor invoices
 - ▶ Rebate checks from water agencies



Turf Project - Invoiced



Recommendation

Receive and file this final report for the Proposition 84 IRWM Emergency Drought Round Grant Program.