



# S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

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

**PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDER N-29-20 ISSUED BY GOVERNOR GAVIN NEWSOM ON MARCH 19, 2020, THIS MEETING WILL BE CONDUCTED VIRTUALLY. ALL VOTES TAKEN DURING THIS VIRTUAL MEETING WILL BE CONDUCTED BY ORAL ROLL CALL.**

**This meeting will be accessible as follows:**

Meeting Access Via Computer (Zoom)*:	Meeting Access Via Telephone*:
<ul style="list-style-type: none"> <li>• <a href="https://sawpa.zoom.us/j/91844220316">https://sawpa.zoom.us/j/91844220316</a></li> <li>• Meeting ID: 918 4422 0316</li> </ul>	<ul style="list-style-type: none"> <li>• 1 (669) 900-6833</li> <li>• Meeting ID: 918 4422 0316</li> </ul>
<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>	

## **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  
 Joe Mouawad, General Manager, Eastern Municipal Water District  
 Michael Markus, General Manager, Orange County Water District, Vice Chair  
 Craig Miller, General Manager, Western Municipal Water District

**TUESDAY, MAY 11, 2021 – 8:30 A.M.**

### **AGENDA**

- 1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Michael Markus, Vice 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. SELECTION OF COMMITTEE CHAIR AND VICE CHAIR**
- 4. APPROVAL OF MEETING MINUTES: APRIL 13, 2021 .....3**

**5. COMMITTEE DISCUSSION/ACTION ITEMS**

- A. WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.5) .....7**  
**Presenter:** Ian Achimore  
**Recommendation:** Provide feedback regarding:
- General project updates related to retail partnership workshops and the retail agencies participating,
  - New Project webpage,
  - Memorandum of Understanding (MOU) template for retail partners, and
  - Municipal Water District of Orange County (MWDOC) and SAWPA initial recommended approach for North Orange County.
- B. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2021.6) .....33**  
**Presenter:** Ian Achimore  
**Recommendation:** Receive and file.

**6. FUTURE AGENDA ITEMS**

**7. 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 svilla@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](http://www.sawpa.org), subject to staff's ability to post documents prior to the meeting.

**Declaration of Posting**

I, Sara Villa, Acting Clerk of the Board of the Santa Ana Watershed Project Authority declare that on May 6, 2021, a copy of this agenda has been uploaded to the SAWPA website at [www.sawpa.org](http://www.sawpa.org) and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

**2021 Project Agreement 22 Committee Regular Meetings**

Interregional Landscape Water Demand Reduction Program

Second Tuesday of Every Month

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

<b>January</b> 1/12/21 <del>Regular Committee Meeting [cancelled]</del>	<b>February</b> 2/9/21 Regular Committee Meeting
<b>March</b> 3/9/21 <del>Regular Committee Meeting [cancelled]</del>	<b>April</b> 4/13/21 Regular Committee Meeting
<b>May</b> 5/11/21 Regular Committee Meeting	<b>June</b> 6/8/21 Regular Committee Meeting
<b>July</b> 7/13/21 Regular Committee Meeting	<b>August</b> 8/10/21 Regular Committee Meeting
<b>September</b> 9/14/21 Regular Committee Meeting	<b>October</b> 10/12/21 Regular Committee Meeting
<b>November</b> 11/9/21 Regular Committee Meeting	<b>December</b> 12/14/21 Regular Committee Meeting

**Note:** Per Action of the PA 22 Cmte on 1-23-20, (agenda item No. 4.E.), beginning March 2020 the regular PA 22 Committee meetings shall be held at 8:30 a.m. on the second Tuesday of every month.



**PROJECT AGREEMENT 22 COMMITTEE**  
Interregional Landscape Water Demand Reduction Program  
**REGULAR MEETING MINUTES**  
**April 13, 2021**

**COMMITTEE MEMBERS PRESENT**

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

**COMMITTEE MEMBERS ABSENT**

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

**STAFF PRESENT**

Jeffrey Mosher, Karen Williams, Mark Norton, Ian Achimore, Dean Unger, Sara Villa, Zyanya Ramirez

**OTHERS PRESENT**

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

**1. CALL TO ORDER**

The regular meeting of the PA 22 Committee was called to order at 8:31 a.m. by Vice Chair Michael Markus on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California. Pursuant to the provisions of Executive Order N-25-30, this meeting was conducted virtually.

**2. PUBLIC COMMENTS**

There were no public comments; there were no public comments received via email.

**3. APPROVAL OF MEETING MINUTES: FEBRUARY 9, 2021**

**MOVED**, approve the February 9, 2021 meeting minutes.

Result:	<b>Adopted by Roll Call Vote (Unanimously)</b>
Motion/Second:	Miller/Deshmukh
Ayes	Deshmukh, Dyer, Markus, Miller
Nays:	None
Abstentions:	None
Absent:	Jones

**4. COMMITTEE DISCUSSION ITEMS**

**A. PROJECT AGREEMENT 22 COMMITTEE BUDGET FOR FISCAL YEARS ENDING 2022 AND 2023 (PA22#2021.3)**

Ian Achmore provided the PowerPoint presentation contained in the agenda packet on pages 13-27.

The PA 22 Committee uses a two-year budget planning timeframe. The budget presented and recommended for adoption for fiscal years ending 2022 and 2023 will be incorporated into the SAWPA Budget, which will be recommended for adoption by the SAWPA Commission on

April 20, 2021. Once a SAWPA member agency approves the SAWPA Budget, they will have approved the PA 22 Committee Budget.

The Committee currently performs management decision on two projects:

- 1) The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) - Water Budget Assistance
  - a. Scope - Creates dedicated landscape meter service areas (and updated vegetation measurements where needed)
  - b. Schedule – 2020 to 2023
  - c. Grant - Proposition 84 Integrated Regional Water Management (IRWM)
  - d. Proposed Budget -

<b>Revenue</b>				
	Current Two-Year Budget		Proposed Budget*	
	FYE 2020	FYE 2021	FYE 2022	FYE 2023
<b>Total</b>	<b>\$959,134</b>	<b>\$979,142</b>	<b>\$770,825</b>	<b>\$296,370</b>
<b>Expenses</b>				
	Current Two-Year Budget		Proposed Budget*	
	FYE 2020	FYE 2021	FYE 2022	FYE 2023
<b>Total</b>	<b>\$959,134</b>	<b>\$979,142</b>	<b>\$770,825</b>	<b>\$68,3247</b>

\* Proposed expenses for FYE 2023 does not match proposed revenue as carry-over funds will be utilized for the expenses.

- 2) Enhanced Watershed-Wide Decision Support Tool
  - a. Scope - Estimate outdoor water budgets at the parcel level for retail and wholesale water agencies in the Santa Ana River Watershed, South Orange County and the southern portions of Eastern Municipal Water District and Western Municipal Water District.
  - b. Schedule - 2020 to 2023
  - c. Grant – Proposition 1 Round 1 IRWM, Bureau of Reclamation Cooperative Funding agreement
  - d. Proposed Budget -

<b>Revenue</b>				
	Current Two-Year Budget*		Proposed Budget	
	FYE 2020	FYE 2021	FYE 2022	FYE 2023
<b>Total</b>	<b>\$542,788</b>	<b>\$642,668</b>	<b>\$651,608</b>	<b>\$261,706</b>
<b>Expenses</b>				
	Current Two-Year Budget*		Proposed Budget	
	FYE 2020	FYE 2021	FYE 2022	FYE 2023
<b>Total</b>	<b>\$290,134</b>	<b>\$580,266</b>	<b>\$651,608</b>	<b>\$261,706</b>

\* For the current two-year budget for FYE 2020 and 2021, revenues do not match expenses as staff budgeted conservatively during budget preparation due to Proposition 1 grant applications not being awarded at that time.

A combined totals comparison to actual spending for both projects was presented.

<b>Revenue</b>				
	Adopted	Adopted	Actual	Projected
	FYE 2020	FYE 2021	FYE 2020	FYE 2021
<b>Total</b>	<b>\$1,280,468</b>	<b>\$1,621,810</b>	<b>\$670,658</b>	<b>\$653,414</b>

<b>Expenses</b>				
	Adopted	Adopted	Actual*	Projected*
	FYE 2020	FYE 2021	FYE 2020	FYE 2021
<b>Total</b>	<b>\$1,249,269</b>	<b>\$1,559,409</b>	<b>\$224,104</b>	<b>\$257,823</b>

\* The actual and projected expenses are different from what was adopted due to changes in project scopes and subsequent approval from the Department of Water Resources.

There was discussion regarding how to differentiate what is included in the SAWPA budget and what would require separate approvals from the member agencies' governing boards. There were concerns that while adopting the SAWPA budget, the member agencies would be committing to future projects that had not yet been approved or reviewed by their governing boards or that already approved items would be brought back to their governing boards individually for approval. Committee Member Miller suggested a table summarizing the member agency's previously approved and upcoming commitments.

Vice Chair Markus requested a chart describing what percentage of SAWPA labor cost is being funded by grants.

**MOVED**, adopt the Project Agreement 22 Committee Budget for Fiscal Years Ending (FYE) 2022 and 2023.

Result: **Adopted by Roll Call Vote (Unanimously)**  
 Motion/Second: Dyer/Miller  
 Ayes: Deshmukh, Dyer, Markus, Miller  
 Nays: None  
 Abstentions: None  
 Absent: Jones

**B. APPROVAL OF CONTRACT FOR 2021 UPPER WATERSHED AERIAL IMAGERY (PA22#2021.4)**

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 33-51.

The Enhancements to Watershed-Wide Water Budget Decision Support Tool Project (which is funded by a Proposition 1 IRWM Round 1 grant, in-kind staff time partnership with the Bureau of Reclamation, and cost share from the PA 22 member agencies and MWDOC) includes the following three tasks:

- 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 to provide water budgets to 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.

To implement Tasks 1 and 2 (obtain high resolution imagery of the watershed), SAWPA distributed a Request for Proposals on February 9, 2021; proposals were due March 9, 2021. SAWPA received six (6) proposals and recommends executing a contract with Geophex Ltd. as they scored satisfactory per the RFP criteria and their price.

In July 2020, the Committee agreed to proportionally share the cost for upper watershed aerial imagery based on population, square milage, and parcel amount.

Invoicing to SAWPA member agencies using approved ratios and Geophex contract are as follows:

Agency	Proportion approved by PA 22 Committee	Geophex Contract costs using proportions
Eastern Municipal Water District	29%	\$60,273
Inland Empire Utilities Agency	22%	\$45,420
San Bernardino Valley Municipal Water District	21%	\$43,201
Western Municipal Water District	29%	\$61,460
<b>Total</b>	<b>100%</b>	<b>\$210,353</b>

The Orange County Water District opted for acquiring aerial imagery for Orange County's portion of the watershed through the Southern California Association of Governments (SCAG). Their final GEOTIFF files will be available July 2021 for analysis by SAWPA and partner Bureau of Reclamation.

Once the Contract is approved, Geophex Ltd. will commence air photo acquisition in April 2021 and present final product to SAWPA and the Bureau of Reclamation by December 2021. SAWPA, the water agencies listed under the shared master license, and other water related agencies, will have the right to use and/or sublicense the Licensed Imagery.

**MOVED**, authorize the General Manager to execute a contract with Geophex, Ltd. in the amount of \$210,353 for a three-inch resolution aerial imagery.

Result: **Adopted by Roll Call Vote (Unanimously)**  
 Motion/Second: Deshmukh/Dyer  
 Ayes Deshmukh, Dyer, Markus, Miller  
 Nays: None  
 Abstentions: None  
 Absent: Jones

**5. FUTURE AGENDA ITEMS**

None.

**6. ADJOURNMENT**

There being no further business for review, the meeting ended at 9:32 a.m.

**Approved at a Regular Meeting of the Project Agreement 22 Committee on Tuesday, May 11, 2021.**

Attest :

\_\_\_\_\_  
 Sara Villa  
 Acting Clerk of the Board

## **PA 22 COMMITTEE MEMORANDUM NO. 2021.5**

**DATE:** May 11, 2021  
**TO:** SAWPA Project Agreement 22 Committee  
**SUBJECT:** Water Efficiency Budget Assistance Project Update  
**PREPARED BY:** Ian Achimore, Senior Watershed Manager

### **RECOMMENDATION**

Provide feedback regarding:

- General project updates related to retail partnership workshops and the retail agencies participating,
- New Project webpage,
- Memorandum of Understanding (MOU) template for retail partners, and
- Municipal Water District of Orange County (MWDOC) and SAWPA initial recommended approach for North Orange County.

### **DISCUSSION**

The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) includes a Water Use Efficiency Task in the Department of Water Resources' Proposition 84 grant agreement scope of work, whereby SAWPA is the lead to implement its two sub-tasks: 1) the Smartscape Program, and 2) the Water Efficiency Budget Assistance Project. As approved by the PA 22 Committee, SAWPA contracted with Quantum Spatial (now doing business as "NV5") in February 2021 for the Water Efficiency Budget Assistance Project. As of 2020, the Smarstcape Task is complete. In February 2021, the PA 22 Committee approved a plan whereby SAWPA would partner with two retail water agencies per SAWPA member agency on the Water Efficiency Budget Assistance Project.

SAWPA has been working with NV5 (and its sub-consultants Eagle Aerial Solutions and Waterfluence Inc.), the SAWPA member agencies and MWDOC to being partnering with the retail water agencies across the Santa Ana River Watershed. Over the past two months, SAWPA has developed a new webpage, a MOU template for retail agency partners, held an internal Project kick-off meeting and prepared for two virtual workshops (on May 3 and May 11, 2021) to recruit the retail agency partners. Consequently, the agency size and number of customers benefiting from the watershed program has yet to be determined.

SAWPA has also worked with MWDOC on a possible modified approach for recruiting and managing retail water agency partners in North Orange County (i.e. part of the Santa Ana River Watershed). Staff will bring back a final recommendation on this approach at the June 2021 Committee meeting but is sharing the following at this time to receive initial feedback from the PA 22 Committee. This alternative approach has been discussed with the PA 22 Advisory Workgroup at their April 2021 meeting and there was general support.

Under this modified approach, MWDOC would take the lead for all Orange County agencies, including the two that would have been managed by SAWPA. SAWPA would provide an amount of grant/match from Project to cover these two retail water agencies. To calculate the amount of grant/match, one approach is dividing consultant contract of \$594,387 with NV5 and the associated customers listed in the contract (i.e. 1,083 customers) by five and providing MWDOC \$118,877 (i.e. 1/5th of \$594,387) via an agreement with SAWPA. This would reduce the SAWPA NV5 contract price and customers to \$475,510 and 866 customers respectively, as shown in the table below, while still using grant funding to benefit agencies in the watershed.

**Table 1: Contract Changes Using 1/5 Split**

Total Contract (Cost Share and Grant)	Price	Customers	1/5 Price	1/5 Customers	New SAWPA Contract*
	\$594,387	1,083	\$118,877	217	\$475,510

\*866 customers

There are benefits to this approach in Orange County, including the following:

- Streamlines Project implementation in Orange County as MWDOC is already working with NV5 consultant,
  - Under their contract, the retailers are funding consultant's costs (i.e. they provide their own funding to MWDOC), and MWDOC in turn serves as project manager of consultant,
- Fixes perceived unfairness, as under current approach two OC retailers would receive consultant services fully funded (by SAWPA grant and cost share) and the other OC retailers would fully fund the consultant themselves via MWDOC,
- Reduces SAWPA's project management costs as less retailers are managed under the SAWPA-led effort, and
- SAWPA would still be able to claim grant-funded benefits under the Department of Water Resources' grant agreement because grant (and local cost share as funding match) would go toward MWDOC's retail water agencies in the Santa Ana River Watershed.

There are other items to consider when evaluating this approach. These include:

- SAWPA still focused on two retail agencies per SAWPA member agency service area, especially in the upper watershed,
  - Staff would change approach for North Orange County if approved by Committee in June 2021,
- SAWPA has discussed the 1/5 split with NV5 and is awaiting feedback, and
- Approach for MWDOC partnership would come back as a final recommendation at next Committee meeting in June 2021, depending on PA 22 Committee feedback in today's meeting,



## **BACKGROUND**

Initially, the SARCCUP scope of work in the Department of Water Resources (DWR) Proposition 84 grant agreement included the SARCCUP conservation-based water rates sub-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.

## **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.

Attachments:

1. PowerPoint Presentation
2. MOU Template with Retail Water Agency Partners

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# Water Efficiency Budget Assistance Project Update

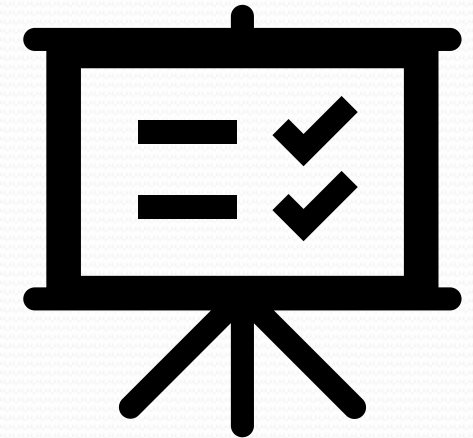
Ian Achimore | Senior Watershed Manager  
PA 22 Committee Meeting | Agenda Item 4.A.

May 11, 2021



# Purpose of Presentation

- Provide general project updates since last PA 22 Committee meeting,
- Share MOU template to be used with individual retail water agencies, and
- Share SAWPA and Municipal Water District of Orange County's development of project approach for Orange County retail agency partners.



# Water Efficiency Budget Assistance Project: Purpose of Project

- **SARCCUP Grant Scope:** Help **up to 10** retail agencies comply with State regulations that require water agencies to adhere to agency-wide water budgets Senate Bill (SB) 606 and Assembly Bill (AB) 1668.
  - PA 22 Committee approved that two retail agencies per SAWPA member agency would partner with SAWPA.



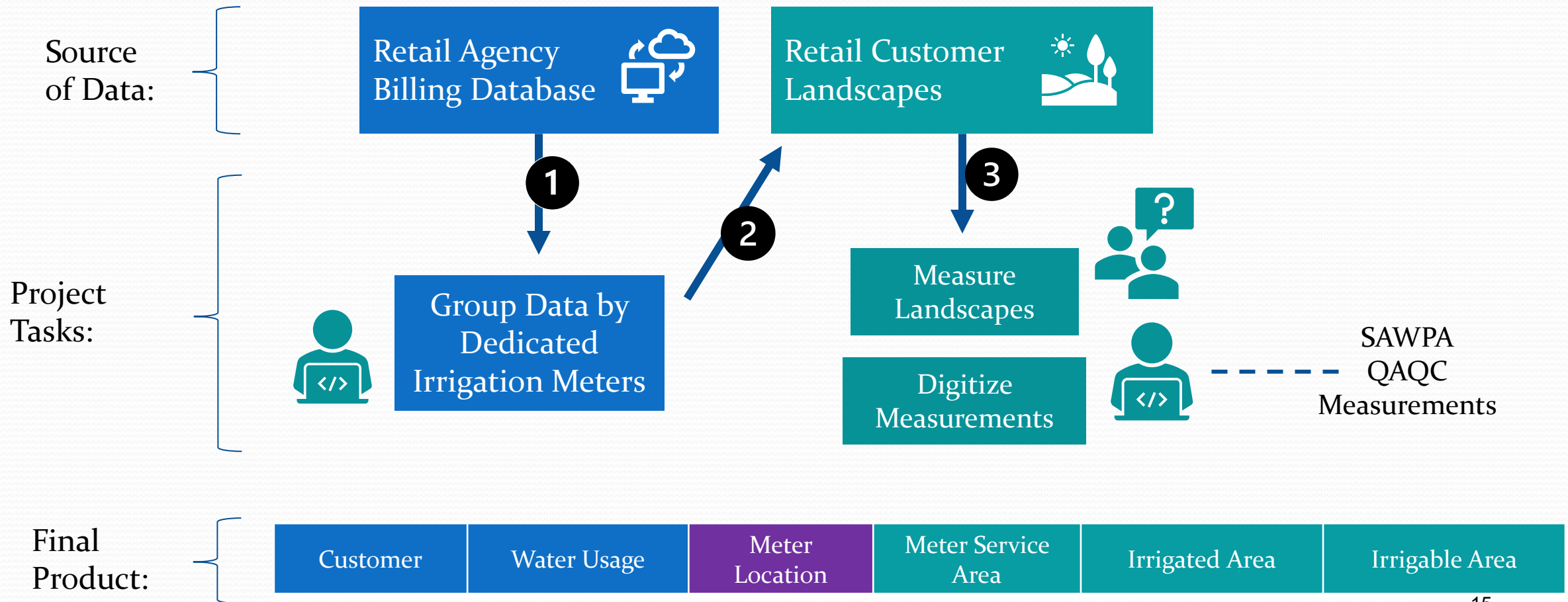
# SB 606 and AB 1668 Requires Retail-Wide Water Budgets

Legislation requires the following categories 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).



# Steps (1 through 3) to Create Customer Water Efficiency Budgets



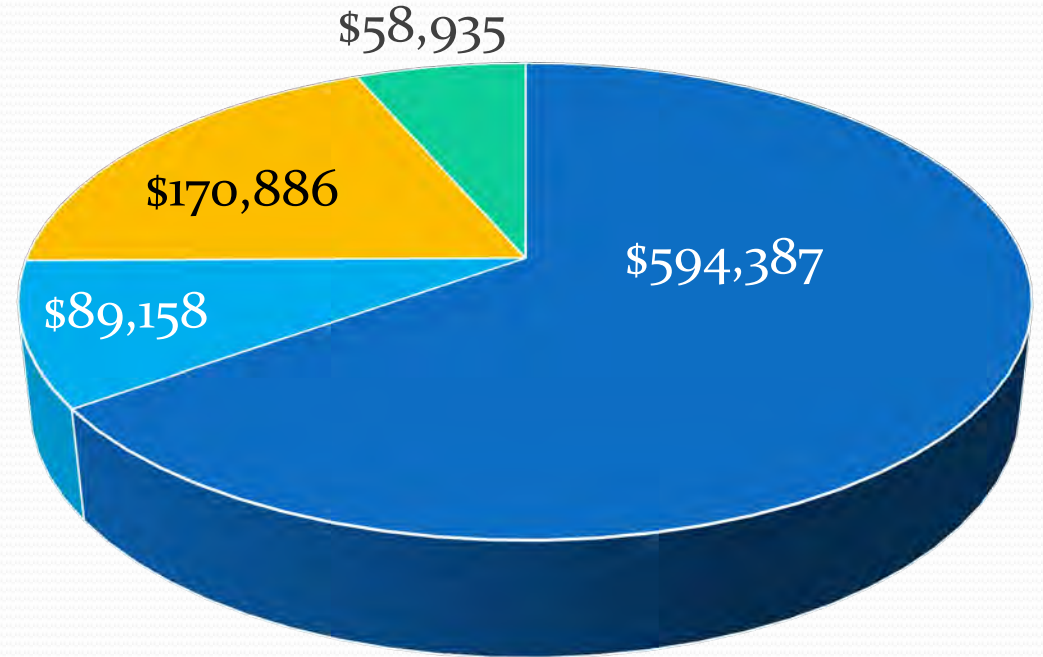
# Overall Project Schedule

Calendar Year:	2020		2021				2022				2023		
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
<b>RFPs and Consultant Selection</b>													
<b>Retail Agency Onboarding</b>													
<b>Create Budgets</b>													
<b>Final Grant Report</b>													



# Estimated 3 Year Project Costs

- Consultant = Quantum Spatial (now doing business as “NV5”), Eagle Aerial and Waterfluence,\*
- Contingency = Consultant (15% of consultant contract),
- Project Management, Outreach and MOUs = SAWPA staff costs, and
- Quality Control = SAWPA GIS staff costs.



- Consultant
- Contingency
- Project Management\*\*
- Quality Control

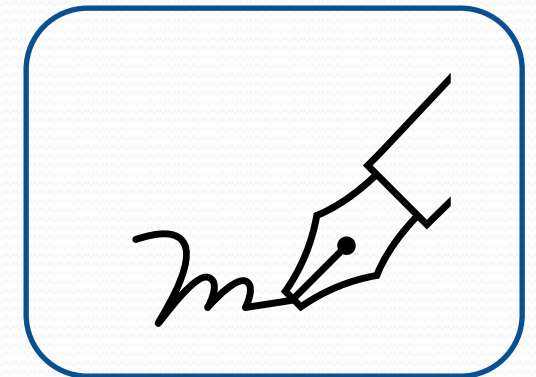
**Total Costs = Approximately \$913,000**

\*\$594,387 represents contract approved by PA 22 Committee.

\*\*Includes outreach and MOU execution with retailers.

# Project Updates (Recent Activities)

- Developed Memorandum of Understanding (MOU) template to use with retail agency partners,
  - Includes non-disclosure terms so retail agency data is protected,
  - Outlines roles and responsibilities of retailer, SAWPA and consultant, and
  - Includes termination clause where SAWPA may terminate by bringing to PA 22 Committee and retailer may terminate with their governing board's approval.



# Project Updates (Recent Activities)

**New Project webpage:**  
<https://sawpa.org/water-use-efficiency/water-efficiency-budget-assistance/>

**Portal for Retail Agency Questions Here**  
Response provided within 48 hours via email  
and later posted to webpage

## Water Efficiency Budget Assistance Project



[View the Retail Water Agency Partnership Flyer PDF](#)

Questions and answers from retail water agencies will be posted here. Check back soon.

For Questions on this project, please complete form:

A screenshot of a questionnaire form titled 'Water Efficiency Budget Assistance Project - Questionnaire'. The form is set against a light blue background with the 'quantum SPATIAL' logo at the top. The introductory text states: 'This form is intended to collect feedback regarding the Santa Ana River Watershed Water Efficiency Budget Assistance Project.' The form includes a 'Retailer Name' field with the instruction 'Please enter the name of your business.' and a 'Participation Interest' dropdown menu with the text 'Select your answer' and a downward arrow.

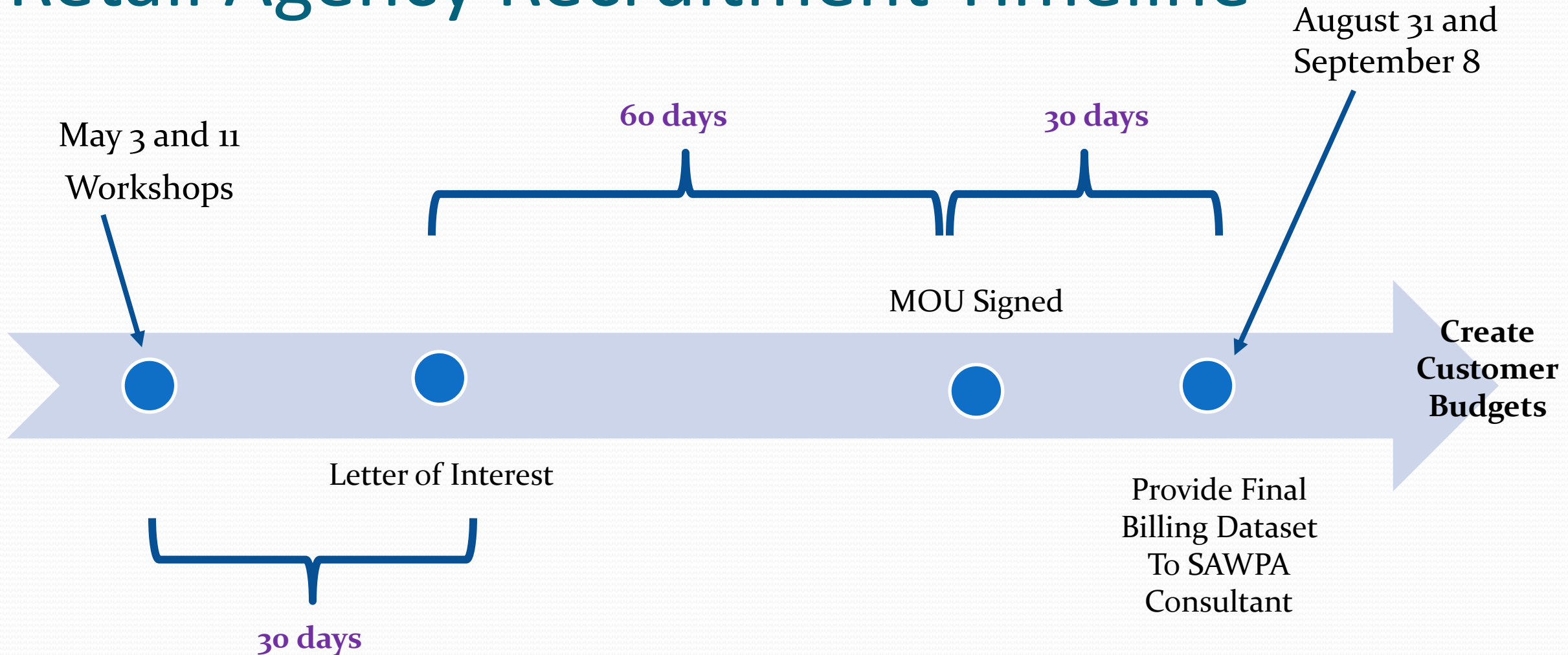
# Retail Recruitment Workshops

- Workshop dates on May 3 and May 11,
- Registrants (at time of agenda packet development) include:
  1. City of Chino Hills,
  2. City of Upland,
  3. Cucamonga Valley Water District,
  4. Jurupa Community Services District,
  5. Monte Vista Water District,
  6. Riverside Public Utilities,
  7. San Bernardino Municipal Water District, and
  8. Yucaipa Valley Water District.



Retail Recruitment for Orange County agencies will be through another workshop/process

# Retail Agency Recruitment Timeline



# Orange County Process - Initial Recommendation

- After discussions with PA 22 Committee Advisory Workgroup, SAWPA is sharing recommendation for how Orange County retail water agencies could participate in Project,
  - Note: PA 22 Committee previously approved a plan where SAWPA partners with two retailers per SAWPA member agency,
- Under alternative approach, MWDOC would take the lead for all Orange County agencies, including the two that would have been managed by SAWPA, and
- SAWPA would provide an amount of grant/match from Project to cover these two retail water agencies.



Recommendation is shared for information-sharing purposes at this time.

# If Ultimately Approved, Agreement Needed with MWDOC and SAWPA

- Cost Share and Grant could be provided to MWDOC for north Orange County retail agencies,
  - One approach is dividing consultant contract of \$594,387 and associated customers **by five**.
  - This would reduce the SAWPA contract price and customers, as shown in the table below.

Note: Each customer is assumed to have approximately five water meters.

	Price	Customers	1/5 Price	1/5 Customers	New SAWPA Contract*
Total Contract (Cost Share and Grant)	\$594,387	1,083	\$118,877	217	\$475,510



# Benefits of MWDOC Partnership Approach

- Streamlines Project implementation in Orange County,
  - MWDOC already working with Quantum Spatial\* consultant,
    - Under their contract, the retailers are funding consultant's costs (i.e. they provide \$ to MWDOC), and MWDOC serves as project manager of consultant,
  - Fixes perceived unfairness, as under current approach two OC retailers would receive consultant services fully funded (by SAWPA grant and cost share) and the other OC retailers would fully fund the consultant themselves via MWDOC,
  - Reduces SAWPA's project management costs as less retailers are managed under the SAWPA led effort, and
  - SAWPA would still be able to claim grant-funded benefits because grant would go toward MWDOC's retail water agencies in the watershed.



# Grant Benefits Claimed

- As part of Proposition 84 funded DWR grant agreement, SAWPA must claim a certain water savings benefit amount,
- Benefits claimed based on the amount of estimated participating customers and a water savings factor,\* and
- SAWPA able to meet grant benefits claimed if MWDOC partnership approach is adopted by Committee.

**Table Included in Grant Agreement  
– Project Monitoring Plan Section**

Proposed Physical Benefits	Numeric Targets
Water Supply Created	Implement Project for <b>up to 10 water agencies</b> to provide approximately <b>1,200 acre feet</b> of water savings over a <b>three-year period</b> .

\*Water savings factor based on a Acre Feet Per Year (AFY) estimate using MWDOC’s study “Evaluation of Comprehensive Landscape Water Use Efficiency Program (CLWUE)”.

# Interested Agencies and Customers in Orange County

- Table reflects agencies who have expressed interest in the Project in Orange County and an estimated number of dedicated irrigation meter (DIM) customers that may need consultant services.
- Note: This list is preliminary and subject to change as agencies refine their needs.
- Agencies not currently included on this list are still welcome to participate.

Agency	Estimated Number of DIM Customers
City of Anaheim ★	528
City of Brea ★	156
City of Buena Park ★	177
El Toro Water District ★	176
City of Fountain Valley ★	90
City of Fullerton ★	259
City of Garden Grove ★	326
Golden State Water Company ★	225
City of La Habra ★	91
Laguna Beach County Water District	43
Mesa Water District ★	616
Moulton Niguel Water District	200
City of Newport Beach ★	704
City of Orange ★	73
City of San Clemente	247
City of Seal Beach ★	47
South Coast Water District	209
Trabuco Canyon Water District	28
City of Westminster ★	276
Yorba Linda Water District ★	232
<b>Estimated Total:</b>	<b>4,703</b>

# Other Items to Consider Regarding Project Approach in Orange County

- SAWPA still focused on two retail agencies per SAWPA member agency service area, especially in the upper watershed,
  - Staff would change approach for OC if later approved by Committee,
- SAWPA has discussed the 1/5 split with Nv5 and is awaiting feedback, and
- Approach for MWDOC partnership would come back as a final recommendation at next Committee meeting in June 2021, depending on PA 22 Committee feedback in today's meeting,

# Committee Questions and Feedback

- Regarding:
  - General project updates related to workshops and agencies participating,
  - Project Webpage,
  - MOU template for retail partners, and
  - MWDOC/SAWPA initial recommended approach for North Orange County.

**Water District [name], SAWPA and NV5G/Quantum Spatial (Parties)  
Participating Memorandum of Understanding (MOU)**

For Participating in the Proposition 84 Grant Funded  
Water Use Efficiency Budget Assistance Project (Project)

The Santa Ana Watershed Project Authority (SAWPA) is working with its member agencies and other water agencies to use grant funding provided by the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84, Chapter 2) to implement the Project. NV5 Geospatial d/b/a/ Quantum Spatial (NV5G) has been selected by SAWPA through a request for proposals to implement the Project in partnership with approximately 10 selected water districts.

**Section 1. Roles and Responsibilities**

1.1 Participating Water District [name] (District) Roles and Responsibilities:

1. Submit District questionnaire form, attend data overview meeting with SAWPA, provide data (“Data”) as defined in Section 2 in a timely manner, respond to SAWPA and NV5G in a timely manner.
2. Review data and map products from NV5G, and submit markups and changes in a timely manner.
3. Work with NV5G to coordinate outreach to dedicated landscape meter customers in a timely manner.

1.2 NV5G’s Roles and Responsibilities:

1. Analyze retail water District billing system queries to identify dedicated irrigation meter customers, customer type (such as parks or homeowner associations), their water usage and their likely location in the District’s service area.
2. Create an agreed upon customer contact list with participating District and NV5G with specific locations for potential in-field visits (if necessary) at the water meter locations.
3. Schedule outreach to customers, including phone-based meetings, virtual conference calls, or as a fallback option, in-field meetings.
4. For the customers on the contact list, calculate the area measurements and geo-referenced boundaries for the three following categories: 1) meter service area, 2) irrigated area, and 3) irrigable area.
5. Along with the meter service area, NV5G will create one of the following:
  - a. A meter service area point that is within the new Meter Service Area,
  - b. A meter location point that is representative of the actual meter location, or
  - c. Neither “a”, or “b” if the retail water District’s meter location (or existing meter service area point) is within the Project’s meter service area and is available to NV5G.
6. Work with the District and its customer to digitize the irrigated and irrigable areas within the Meter Service Areas included on the contact list.
7. Share the imagery used, new polygons generated, and new efficiency budgets created

through this Project on a web-based application that the District is able to utilize.

- In addition to the new polygons, provide the District the new efficiency budgets in tabular format as follows:

Customer ID from Billing System	Other Data Associated with Customer such as Meter(s) Size	Customer Type (such as park)	Associated APN(s)	Meter Location or Meter Service Area Points (Lat/Long)	Meter Service Area (Area measurement)	Irrigated Area (Area Measurement)	Irrigable Area (Area Measurement)
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**1.3 The respective roles and responsibilities of SAWPA:**

- Overall project management and coordination.
- Maintain data for grant reporting purposes, including the data listed in the table below:

Other Data Associated with Customer Such As Meter(s) Size	Customer Type (such as park)	Associated APN(s)	Meter Location or Meter Service Area Points (Lat/Long)	Meter Service Area (Area measurement)	Irrigated Area (Area Measurement)	Irrigable Area (Area Measurement)
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- Conduct Proposition 84 grant administration, reporting and payment to NV5G.
- Manage Quantum to ensure they comply with all applicable federal and state laws, rules, regulations and guidelines.

**Section 2. Data Definition**

"Data" includes but is not limited to extracted water service account data in .csv text format, further described in the following fields:

- ID (unique identifier, link to GIS and/or other systems),
- Account Name (name on account),
- Lat/Long (geographic coordinates of either the meter location or the service point),
- Service Address (address of service location),
- APN (assessor’s parcel number of service location),
- Service Type (type of water service, e.g. single-family, multi-family, commercial, industrial, fire, hydrant, etc.),
- Meter Size (size of water service connection),
- Number of building units associated with meter, and
- Account Status (active or inactive water service).

### **Section 3. Non-Disclosure of Data**

**3.1 Protections:** The Data to be disclosed under this MOU is described as: District's water customer utility usage data that is protected from disclosure pursuant to Government Code Section 6254.16. The Data is being disclosed to NV5G solely under Section 6254.16(b) which provides for disclosure to another governmental District. Such disclosure shall not be deemed any other type of disclosure which could potentially result in any alleged waiver of the confidentiality of the Data. NV5G shall be solely responsible for compliance with the obligations herein by Recipient's officers, employees, or agents.

**3.2 Effective Dates:** This MOU covers Data which is disclosed between the Effective Date, which is the date the last party to this MOU signs, and two (2) year from the Effective Date. Any disclosure, whether intentional or inadvertent, which takes place after said 2-year period, shall nevertheless be subject to the same protections as provided under this MOU.

**3.3 Permitted Use:** Recipient shall not use the Data for any purpose other than in connection with said work that is more particularly described in this Section 3.3, Permitted Use. In addition, Recipient shall take all reasonable precautions to prevent inadvertent use, copying, downloading, or transfer of Confidential Utility User Data that could lead to disclosure of the Confidential Utility User Data.

The Data shall only be used for implementing the Project as described in this MOU.

3.3a. NV5G shall have access to the full scope of the Data defined in Section 2.

3.3b. SAWPA shall have access to service address of the customers who are eligible to participate in the project, meter size, water volume recently used, and the data that NV5G develops (landscape measurement areas).

**3.4 License and Charges:** The parties will perform their respective obligations hereunder without charge to the other, other than any contracts between SAWPA and NV5G. No license or conveyance of any right to either party is granted or implied by the disclosure of Data by District except as provided herein. No right to use is warranted by District by the furnishing of Confidential Utility User Data to NV5G.

**3.5 Commitments:** This MOU does not grant to either party the right to make commitments of any kind for or on behalf of the other party without the prior written consent of said other party.

## Section 4. Amendments and Termination

4.1 **Amendments:** This MOU can be amended only in writing mutually agreed to and signed by all the Parties.

4.2 **Termination:** The District may terminate this MOU by providing SAWPA written notice authorized by their elected and governing board that they will no longer participate in the Project and are terminating the MOU with the parties. SAWPA may terminate this MOU by providing the District written notice authorized by its governing board – the Project Agreement 22 Committee.

## Section 5. Indemnification

The Parties hereby agree to defend, indemnify and hold free and harmless each other from and against any and all liability, expense, including defense costs and legal fees, and claims for damages of any nature whatsoever, arising from or connected that Party's activities under this MOU.

BY SIGNING BELOW, THE PARTIES AGREE TO BE BOUND BY THE PROVISIONS OF THIS MOU

**SAWPA**

**DISTRICT**

**NV5G d/b/a QUANTUM  
SPATIAL**

Sign:

\_\_\_\_\_

Sign:

\_\_\_\_\_

Sign:

\_\_\_\_\_

Dated:

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Dated:

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Dated:

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Jeff Mosher  
General Manager

Name  
General Manager

Andrew Brenner  
Senior Program Director



## PA 22 COMMITTEE MEMORANDUM NO. 2021.6

**DATE:** May 11, 2021

**TO:** SAWPA Project Agreement 22 Committee

**SUBJECT:** Enhancements to Watershed-Wide Water Budget Decision Support Tool Project Update

**PREPARED BY:** Ian Achimore, Senior Watershed Manager

### RECOMMENDATION

Receive and file.

### DISCUSSION

The Enhancements to Watershed-Wide Water Budget Decision Support Tool Project (which is funded by a Proposition 1 IRWM Round 1 grant, in-kind staff time partnership with the Bureau of Reclamation (Reclamation), and cost share from the PA 22 agencies and MWDOC) includes the following three tasks:

- **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 to provide water budgets to 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.

Recent updates to the Project include:

- SAWPA and Geophex, Ltd. (consultant for the upper watershed aerial imagery) are scheduling a kick-off meeting, so imagery is acquired in May and June 2021,
- SAWPA and Reclamation are meeting monthly and discussing the following items:
  - Finalizing server storage for maintaining large terabytes of upper watershed and Orange County imagery,
  - Starting to craft GIS model that will classify common outdoor landscape objects (such as trees, shrubs, and grass), and
- The Orange County imagery files will be provided by the Southern California Association of Governments (SCAG) by July 2021 and shared with SAWPA and the Reclamation for analysis.

### BACKGROUND

The Project will create water efficiency budgets across the Santa Ana River Watershed and South Orange County. These budgets will be more accurate for single-family residential (SFR) scale where SFR assessor parcels represent the same SFR customer for the overlying retail agency. When there is a one-to-one relationship like this, SAWPA can use the assessor parcels

as the de facto meter service area that captures the customer's outdoor watering extents. The water efficiency budgets will be created through the collection of aerial imagery, weather and other data. Reclamation will analyze this imagery with the aid of imagery processing software to create area measurements of irrigable and irrigated vegetation across the entire Santa Ana River Watershed and South Orange County. This analysis will be done regardless of parcel type (or customer classification such as residential) within the watershed and South Orange County because it is largely driven by software computing power. SAWPA is working on assisting retail water agencies with more complicated water efficiency budgets, through a companion-project presented in this Committee meeting – the SARCCUP Water Budget Assistance Project. Through that SARCCUP Project, SAWPA is working with a consultant (NV5 formerly known as Quantum Spatial) to create accurate meter service area boundaries for dedicated landscape meter customers as they often cover multiple accessor parcels.

### **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**

None.

Attachment:

1. PowerPoint Presentation

# Enhancements to Watershed-Wide Water Budget Decision Support Tool Update

Ian Achimore | Senior Watershed Manager

PA 22 Committee | Agenda Item 4.B

May 11, 2021

Proposition 1  
IRWM Grant



# Recommendation

Receive and file.

# Overall Project Scope

Proposition 1  
IRWM Grant

Formal Project Name: Enhancements to Watershed-Wide Water Budget Decision Support Tool

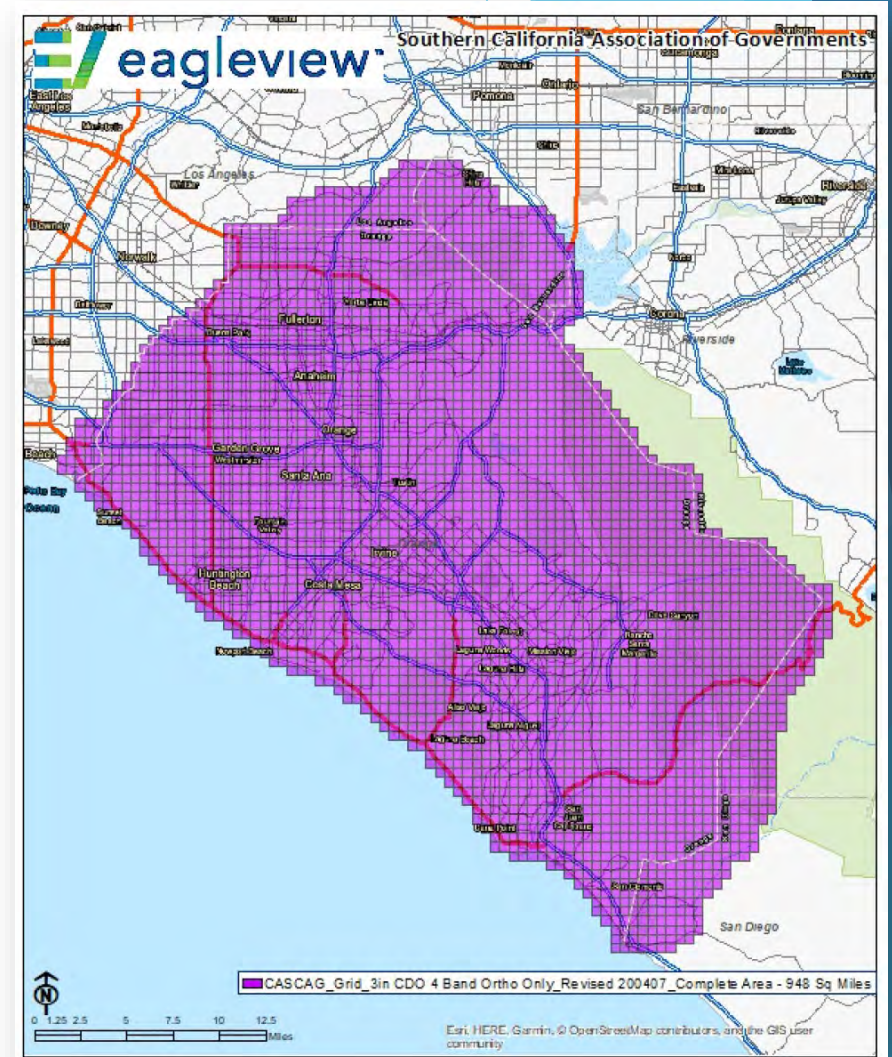
- ▶ **Task 1 - Imagery:** Evaluate and acquire imagery to evaluate landscape for the entire urbanized Santa Ana River Watershed and South Orange County.
- ▶ **Task 2 - Landscape Analysis:** Measure landscapes to provide water budgets to retail agencies to support the achievement of water efficiency targets 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.

# Previous PA 22 Committee Action Regarding Project

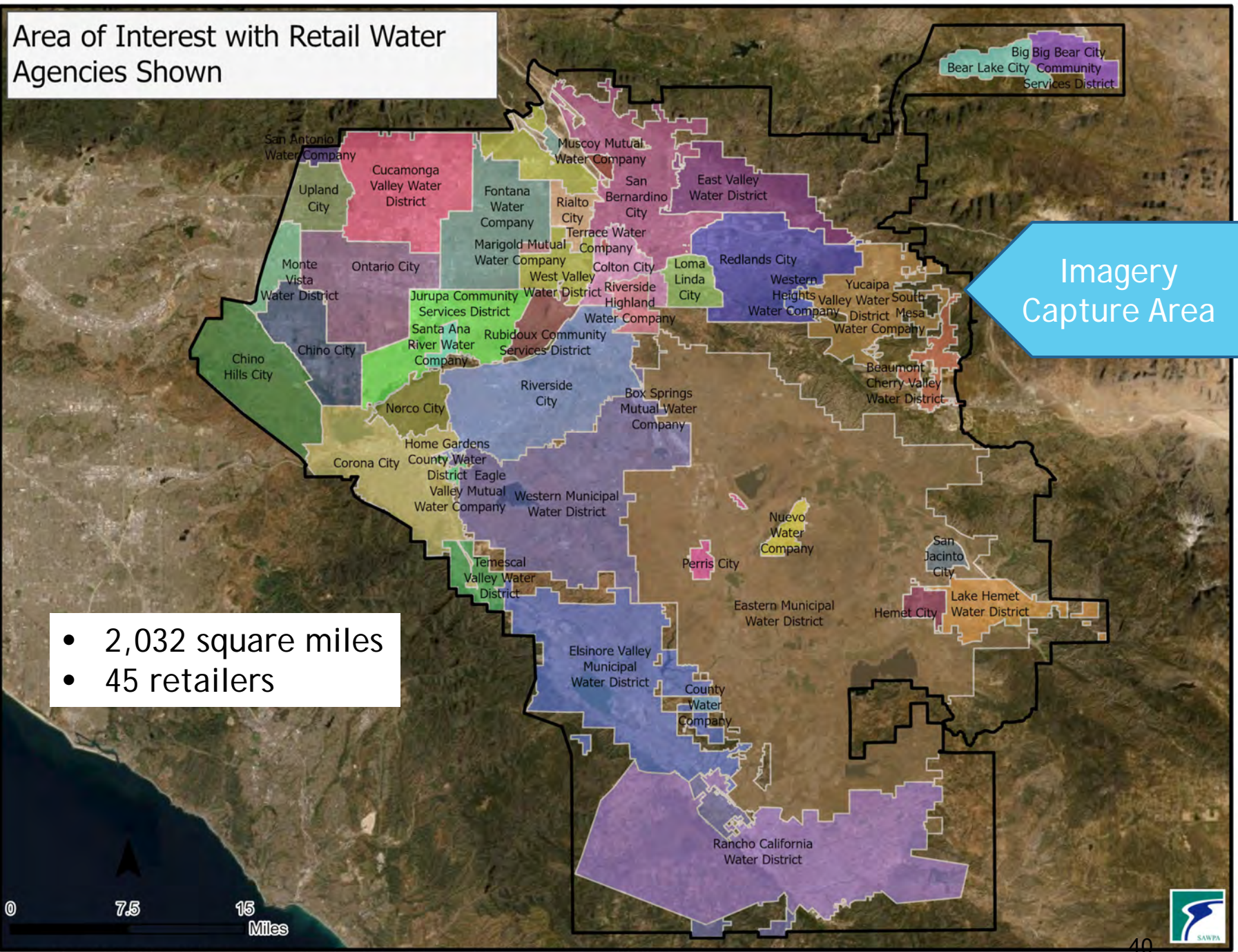
Meeting Date	Committee Action
March 2019	Approval of: 1) Application submission to Bureau of Reclamation for \$597,500 in-kind staff time partnership, 2) Application submission to DWR for \$500,000 Prop 1 IRWM Round 1 grant funding.
July 2020	Approval of cost share for upper watershed SAWPA member agencies using formula.
February 2021	Consider approval of RFP for upper watershed imagery and elevation measurements.
April 2021	Approval of contract with Geophex, Ltd. For upper watershed aerial imagery.

# Orange County Imagery Status

- ▶ 3-inch resolution imagery produced by Eagle View via contract with Southern California Association of Governments (SCAG),
- ▶ Final imagery files available for analysis by SAWPA and partner, Bureau of Reclamation, in July 2021, and
- ▶ Effort funded, in part, by OCWD and MWDOC.
  - ▶ Not funded by Proposition 1 or USBR partnership, but the 3-inch data is available to SAWPA to implement the Enhanced Decision Support Tool Project.



# Area of Interest for Upper Watershed





# Geophex Schedule Update

Project Phase	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Project Start-up	█								
Ground Control	█								
Air Photo Acquisition	█	█	█	█					
Internal Air Photo Imagery Review and Quality Confirmation		█	█	█					
Online Air Photo Review Portal for SAWPA		█	█	█	█				
Raw Air Photo Post Proc. to Lvl02				█	█				
Aerial Triangulation					█	█			
Raw Air Photo Color Balance and generation of Lvl03 non-proprietary TIFF imagery						█	█		
Orthorectifications / QC						█	█	█	█
Orthophoto Deliveries								█	█
Project Wrap-up									█

# Bureau of Reclamation Work Status



- ▶ Monthly check-in meetings with SAWPA staff,
- ▶ Finalizing server storage to use for maintaining large terabytes of upper watershed and Orange County imagery,
- ▶ Starting to craft model that will classify common outdoor landscape objects (such as trees, shrubs, grass), and
- ▶ Awaiting initial data from Orange County to begin landscape classification.

# Recommendation

Receive and file.