PURSUANT TO THE PROVISIONS OF EXECUTIVE ORDERS N-29-20 AND N-08-21 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:

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<th>Meeting Access Via Computer (Zoom)*:</th>
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* 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.

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, Chair
Michael Markus, General Manager, Orange County Water District, Vice Chair
Craig Miller, General Manager, Western Municipal Water District

TUESDAY, SEPTEMBER 14, 2021 – 8:30 A.M.

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Joe Mouawad, 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: JUNE 8, 2021 ............................................................... 5
4. COMMITTEE DISCUSSION/ACTION ITEMS

A. RECONSIDER PROJECT AGREEMENT 22 COMMITTEE REGULAR MEETING SCHEDULE

Presenter: Jeff Mosher
Recommendation: Effective December 2021, regular meetings of the Project Agreement (PA) 22 Committee will be held at 8:30 a.m. quarterly, on the 2nd Tuesday of March, June, September and December, at 11615 Sterling Avenue, Riverside, California; and, the October 12 and November 9, 2021 regular meetings are cancelled.

B. SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROGRAM (SARCCUP) WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.9)

Presenter: Ian Achimore
Recommendation: Receive and file.

C. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION SUPPORT TOOL PROJECT UPDATE (PA22#2021.10)

Presenter: Rick Whetsel
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 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 Committee 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, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on September 9, 2021, 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.
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.)

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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.
1. **CALL TO ORDER**
The regular meeting of the PA 22 Committee was called to order at 8:30 a.m. by Chair Joe Mouawad 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: MAY 11, 2021**
MOVED, approve the May 11, 2021 meeting minutes.

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

4. **COMMITTEE DISCUSSION ITEMS**
   A. **WATER EFFICIENCY BUDGET ASSISTANCE PROJECT UPDATE (PA22#2021.5)**
   Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages 11-22. Mr. Achimore reviewed background information about the Water Efficiency Budget Assistance Project, the second task under the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP). In February 2021, the Project Agreement 22 Committee approved a contract with NV5 (formerly known as Quantum Spatial) to assist with creating
water use efficiency budgets for the respective retail agency’s customers. Per the PA 22
Committee’s feedback at the last meeting, staff is recommending executing an agreement to
transfer to MWDOC approximately 1/5th (i.e. $118,000) of the existing contract amount of
approximately $594,000 between SAWPA and NV5. This agreement would be with OCWD,
who already has a sub-grantee agreement with SAWPA for implementing the Arundo Donax
Removal and Conjunctive Use tasks of SARCCUP. The amendment to the sub-grantee
agreement will:

- Reiterate the intent of the PA 22 Committee that this amendment between OCWD and
SAWPA will allow OCWD to contract with MWDOC on implementation of the
SARCCUP task,
- Require the implementation of efficiency budgets for at least 284 customers, and
- OCWD to contract with MWDOC for approximately $118,000 in funding for this work.

Once OCWD executes an agreement with MWDOC, MWDOC would work with all Orange
County agencies, including the two that would have been managed by SAWPA. As
discussed with the PA 22 Committee at their May meeting, there are benefits to this approach
in Orange County, including streamlining the overall process, reducing SAWPA’s
management costs, and would allow grant-funded benefits support MWDOC’s retail water
agencies in the Santa Ana River Watershed. SAWPA is recommending that the existing
SAWPA-NV5 contract remain unmodified despite the $118,000 budget transfer to OCWD for
MWDOC because the existing SAWPA-NV5 task order is defined as a not-to-exceed value,
still provides the flexibility of increased support at set threshold rates if upper watershed
needs exceed early estimates and does not change the minimum guaranteed contract
amount.

MOVED, approve execution of a Sub-Agreement Amendment with Orange County Water
District (OCWD) in order to contract with the Municipal Water District of Orange County
(MWDOC) for approximately $118,000 in funding to implement the SARCCUP Water Use
Efficiency Budget Assistance Task in North Orange County.

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

B. ENHANCEMENTS TO WATERSHED-WIDE WATER BUDGET DECISION
SUPPORT TOOL PROJECT UPDATE (PA22#2021.6)

Ian Achimore provided the PowerPoint presentation contained in the agenda packet on pages
31-41. Mr. Achimore reviewed the main objectives of the project timeline and objectives.
Recent updates to the Project include:

- Geophex, Ltd. (consultant for the upper watershed aerial imagery) are starting aerial
capture through aircraft in late May 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.

Landscape analysis (Task 2) is expected to begin in July 2021, after imagery is shared by the Southern California Association of Governments (SCAG) with SAWPA and the U.S. Bureau of Reclamation. Work on the Decision Support Tool (Task 3) is expected to begin in late 2021, as SAWPA begins to develop a detailed scope for the decision support tool, which will likely be provided by a third-party consultant.

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

5. **FUTURE AGENDA ITEMS**

   Committee Member Miller requested an agenda item to discuss moving to a quarterly meeting schedule. Jeff Mosher assured the Committee that staff will prepare a future agenda item addressing a revised schedule.

6. **ADJOURNMENT**

   There being no further business for review, the meeting ended at 8:57 a.m.

   **Approved at a Regular Meeting of the Project Agreement 22 Committee on Tuesday, September 14, 2021.**

   ________________________________
   Joe Mouawad, Chair

   Attest :

   ________________________________
   Sara Villa
   Clerk of the Board
Proposed Quarterly Regular Meetings

2021 Project Agreement 22 Committee Regular Meetings
Interregional Landscape Water Demand Reduction Program
(Note: All meetings begin at 8:30 a.m., unless otherwise noticed, and are held at SAWPA.)

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2022 Project Agreement 22 Committee Regular Meetings
Interregional Landscape Water Demand Reduction Program
Quarterly, on the 2nd Tuesday of March, June, September, and December
(Note: All meetings begin at 8:30 a.m., unless otherwise noticed, and are held at SAWPA.)

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DATE: September 14, 2021

TO: SAWPA Project Agreement 22 Committee

SUBJECT: Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Water Efficiency Budget Assistance Project Update

PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

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 Smartscape 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.

The following recent Project activities have occurred:

- In May 2021, SAWPA hosted two workshops with NV5 to recruit retail water agency partners,
- In June 2021, the PA 22 Committee approved OCWD (as well as MWDOC) taking the lead in Orange County as they would receive $118,000 in grant and local match to partner with at least two retail water agency partners in the northern Orange County. MWDOC has a separate contract with the same consultant that SAWPA does – NV5,
- In August 2021, OCWD signed an agreement with MWDOC and MWDOC held a kick-off meeting with their retail water agencies and consultant NV5 for their portion of the Project,
- In August and September 2021, the following retail water agencies partnered with SAWPA by signing the project MOU:
  - Riverside Public Utilities
  - Monte Vista Water District
  - City of Hemet
  - City of Perris
As of September 2021, SAWPA and various SAWPA member agencies are still working with the following retailers to encourage them to participate:
  o San Bernardino Municipal Water Department
  o City of Loma Linda
  o City of Chino Hills
  o Jurupa Community Services District

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

All costs for this project are included in the budget and are on track.

ATTACHMENT

  • PowerPoint Presentation
SARCCUP Water Efficiency Budget Assistance Project Update

Agenda Item 4.B.
Ian Achimore | Senior Watershed Manager
PA 22 Committee | September 14, 2021
Project Purpose

- Help 10 retail agencies comply with State regulations* that require water agencies to adhere to agency-wide water use efficiency budgets,
  - Project specifically creates dedicated landscape meter water efficiency budgets through GIS and in-field consultant work.
- PA 22 Committee approved two retail water agency partners per SAWPA member agency.

* Senate Bill 606 and Assembly Bill 1668
Overall Project Schedule

[Diagram showing project timeline with phases indicated]

= Current phase

3

15
Estimated 3 Year Project Costs

- Consultant = 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.

* $594,387 represents contract approved by PA 22 Committee.
** Includes outreach and MOU execution with retailers.

Total Costs = Approximately $1,031,000
Latest Progress with Retail Partners

- In August and September 2021, the following retail water agencies partnered with SAWPA by signing the project MOU:
  - Riverside Public Utilities
  - Monte Vista Water District
  - Hemet, and
  - Perris.
Ongoing Recruitment with Retailers

- As of September, 2021, SAWPA and various SAWPA member agencies are still working with the following retailers to encourage them to participate:
  - San Bernardino Municipal Water Department,
  - Loma Linda,
  - Chino Hills, and
  - Jurupa Community Services District.
Recommendation

Receive and file.
DATE: September 14, 2021

TO: Project Agreement 22 Committee

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

PREPARED BY: Rick Whetsel, 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:
- Geophex, Ltd. (consultant for the upper watershed aerial imagery) finalized their aerial imagery acquisition in August 2021. SAWPA performed quality control review of the imagery through a GIS portal,
- SAWPA and Reclamation are starting to craft GIS model that will classify common outdoor landscape objects (such as trees, shrubs, and grass), and
- The Orange County imagery files have been received by Reclamation and will be analyzed beginning in September and done by Spring 2022.
- SAWPA has begun meeting internally and with the Reclamation to discuss the web-based decision support tool and data that will be featured in it. SAWPA has also initially discussed it with the PA 22 agencies and MWDOC.

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 accessor 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
All costs for this project are included in the budget and are on track.

ATTACHMENT

1. PowerPoint Presentation
Prop 1 Enhanced Decision Support Tool Update

Rick Whetsel | Senior Watershed Manager
Project Agreement 22 Committee | Item 4.C.
September 14, 2021
Purpose of Project

Capture Photos → Orthorectify Photos to Create Maps → Analyze Maps to Create Efficiency Budgets → Share Budgets via Web-Based Tool
Project Budget

Total Cost = Approximately $1.5 Million
Orange County Area of Interest

Imagery data provided by Southern California Association of Governments and the Municipal Water District of Orange County to SAWPA (at not cost to SAWPA or member agencies).

- 948 square miles
- 31 retailers
Upper Watershed Area of Interest

Imagery data provided by SAWPA Consultant - Geophex. Cost of data funded by upper watershed SAWPA member agencies.

- 2,032 square miles
- 45 retailers
### Geophex Schedule Update

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*Note: The highlighted area indicates May 23 to Aug 1.*
Initial Imagery Portal

- Allows staff to view initial captured upper watershed aerial imagery from Geophex, and
- Imagery not orthorectified so each pixel is not associated with an accurate coordinate.
Crafting model that will classify common outdoor landscape objects (such as trees, shrubs, grass),

Trying to get mask layers from DWR 2018 landscape imagery project with Quantum Spatial,
  - Horse Corrals Mask,
  - Undeveloped Lands Mask, and
  - Agricultural Lands Mask.

Received initial data from Orange County to begin landscape classification,

We’ve continued to coordinate with USBR on the landscape classification list that DWR used for 2018 project (i.e. the 10 category table shown on upcoming slide).
Schedule Related Updates from the Bureau

- Orange County deliverables (i.e. area measurement estimates using Bureau GIS classification model) will be ready in Spring 2022.

- Bureau won't start upper watershed classification until they are done with OC due to limited staff resources.

- By early September 2021 - they will have looked at first retail agency (City of Orange) and start analysis.
### Classification Table Bureau To Use

#### Canopy Priority Classification System

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<tbody>
<tr>
<td>1. Impervious</td>
<td>Impervious</td>
<td>Not Irrigable</td>
</tr>
<tr>
<td>2. Pools</td>
<td>Swimming pools/man made water features</td>
<td>Irrigated</td>
</tr>
<tr>
<td>3. Irrigated</td>
<td>3.1 Turf grass/ground cover</td>
<td>Irrigated</td>
</tr>
<tr>
<td></td>
<td>3.2 Canopy/planting beds</td>
<td>Irrigated</td>
</tr>
<tr>
<td>4. Irrigable not irrigated</td>
<td>4.1 Turf grass/ground cover</td>
<td>Irrigable not irrigated</td>
</tr>
<tr>
<td></td>
<td>4.2 Canopy/other</td>
<td>Irrigable not irrigated</td>
</tr>
<tr>
<td>5. Non irrigated vegetation</td>
<td>Undeveloped for the purposes of irrigation</td>
<td>Not Irrigable</td>
</tr>
<tr>
<td>6. Undeveloped lands</td>
<td>Undeveloped lands</td>
<td>Not Irrigable</td>
</tr>
<tr>
<td>7. Horse Corrals</td>
<td>Horse Corrals</td>
<td>Irrigated</td>
</tr>
<tr>
<td>8. Open Water</td>
<td>Other open natural water (rivers/ponds)</td>
<td>Not Irrigable</td>
</tr>
<tr>
<td>9. Artificial Turf</td>
<td>Artificial Turf</td>
<td>Not Irrigable</td>
</tr>
<tr>
<td>10. Agricultural Land</td>
<td>Agricultural Land (.25 acre mmu)</td>
<td>Irrigated</td>
</tr>
</tbody>
</table>
Update on Web-Based Tool

- Had internal staff meeting with GIS and planning department in August.
- Coordinated with Bureau on file formats needed to “upload” into eventual tool.
- OC imagery and area measurement polygons will “uploaded” into eventual tool first,
  - OC area measurement polygons ready (per previous slide) in Spring 2022.
- Staff will start to draft scope and work with Advisory Workgroup.
Questions