Brief Overview of SARCCUP

- Five year timeline in Grant Agreement
- Timeline includes task completion for
  - Conjunctive use modeling,
  - Land acquisition
  - Engineering,
  - CEQA and permitting,
  - Construction
- Five project proponents (SAWPA member agencies)
- Support services needed to assist in project management
**Project Management RFP**

- W&C selected through a 2016 Request for Proposals (RFP) coordinated by SAWPA with member agencies
- Their proposal provided contract amounts per fiscal year

<table>
<thead>
<tr>
<th>Task Order No.</th>
<th>Fiscal Year Ending</th>
<th>W&amp;C 2016 RFP Proposal</th>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$1,284,490</strong></td>
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W&C’s Ongoing SARCCUP Project Management

- Scope Includes:
  - Web-based database to track and compile quarterly progress reports and invoices that are required by the Grant Agreement,
  - Develop a grant-required project monitoring plan,
  - Lead bi-monthly coordination meetings.
### Status of Funding

<table>
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<td><strong>$1,284,489</strong></td>
<td><strong>$535,321 (42%)</strong></td>
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Scoped in 2016, the W&C workload originally anticipated more involvement in facilitating the completion of construction activities and State-required signage at construction sites, but some of those duties have been assumed by the SARCCUP agencies.
### Proposed Task Order for Fiscal Year Ending 2020

<table>
<thead>
<tr>
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<td>Total</td>
<td>$1,284,490</td>
<td></td>
<td>$535,321</td>
</tr>
</tbody>
</table>

- Note if SARCCUP Delayed Beyond Five Years:
  If W&C performs well under contract, the saved costs from the recent task orders could be utilized for future W&C project management task orders beyond the five year timeline.
Recommendation

- It is recommended that the Commission authorize the approval of Task Order No. 4 in the amount not-to-exceed $229,046 with Woodard & Curran (formerly named RMC Water & Environment Inc.) for project management services to support SARCCUP.
**Key Agreements:**
- Habitat CEQA
- Joint CEQA
- Master Plan - Decision Support Model
- Staff CEQA
- OCWD: Arundo Removal Study/Permits/Design
- OCWD: Design/Construction of New Wells
- OCWD: Planning/Permits/Design
- San Jacinto Watermaster: Arundo Removal Study/Permits/Design
- San Jacinto Watermaster: Design/Bio Surveys/Agency Review/Engineering
- Joint CEQA - Decision Support Model
- MWD Operating Agreements (2)*
  - Amendment No. 2
  - Capital Funding
- Sub-Grantee Agreements (5)
- SAWPA: Implementation – Smartscape and Conservation-Based Rates
- MWD Operating Agreements (2)*
  - Amendment No. 1
  - Capital Funding
- SAWPA: Implementation – Smartscape and Conservation-Based Rates
- WMWD: Planning/Design/Well Siting/Permits
- SAWPA: Implementation – Smartscape and Conservation-Based Rates
- SBVMWD: Design/Bio Surveys/Agency Review/Engineering
- WMWD: Planning/Design/Well Siting/Permits
- Construction: Well Drilling, PS, CRA Crossing, JCSD
- Construction – Sterling, La Sierra Pipeline
- Construction – Water Bank
- Construction – Arundo Removal
- OCWD: Design/Construction of New Wells
- OCWD: Planning/Permits/Design
- Construction – Habitat
- EMWD: Planning/Permits/Design
- Construction – Habitat
- New Projected Construction Completion Date - Sept 2023
- Current Deadline Sept. 2021

---

*Agreement 1 between: MWDSC and SBVMWD; Agreement 2 between: MWDSC and EMWD/WMWD/IEUA/MWDOC
SAWPA Water Use Efficiency Project

Key Agreements and Grant Deliverables:
- SAWPA-OCCK Sub-Agreement
- Project Monitoring Plans
- State-SAWPA Grant Agreement Amendment No. 1
- Amendment No. 2
- Retail Agency Sub-Agreements for Water Rates
- Conservation Rates - Outreach
- Conservation Rates - Implementation
- OCCK Smartscape - Implementation

Current Construction Deadline: Sept. 2021
Reporting extends through 2024
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<td>Riverside Basin – Wells/Cannon Campbell Pump Station/Colorado River</td>
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<td>La Sierra Pipeline/Sterling PS</td>
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<td>Riverside Basin – Wells/Cannon Campbell Pump Station/Colorado River</td>
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<td>Current Construction Deadline Sept. 2024</td>
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<tr>
<td>2020</td>
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Santa Ana River Conservation and Conjunctive Use Program (SARCCUP)

Update for PA-23 Committee

June 4, 2019
Meeting Agenda

• SARCCUP Background
• Purpose of Agreement, SARCCUP Operational Principles and Major Terms and Conditions with MWD
• SARCCUP Operational Scenarios and Examples
  – Example I  Put: Direct MWD Delivery  
     Take: Pump and Use Locally
  – Example II Put: Indirect MWD Delivery  
     Take: Direct Local Delivery
  – Example III Put: Indirect MWD Delivery  
     Take: In-lieu MWD Delivery
  – Example IV Put: Delivery to Valley Bank (50% to MWD/50% to SARCCUP)  
     Take: Direct Local Delivery
• SARCCUP Operating & Finance Committee
• Next Steps
SARCCUP Background

Background and Status:

• Watershed-scale program that will bank imported water to enhance water supply reliability and increase available dry-year supplies in the Santa Ana River Watershed

• $150 million plus program developed by the five regional water agencies in a collaborative effort to secure Proposition 84 funding

• Successfully received over $55 million in grant funding in the last round of Proposition 84 funding
SARCCUP Background (continued)

SARCCUP elements:

• **Water Use Efficiency**: Assistance for agencies to develop conservation-based rates

• **Habitat Creation**: Establish habitat for Santa Ana Sucker fish and water-consuming non-native *arundo donax* removal along the Santa Ana River

• **Watershed-Scale Cooperative Water Banking Program**: Water banking facilities in four locations with coordinated operations to store water in wet years and provides a new extraordinary supply during droughts and emergencies resulting in additional regional Dry-Year Yield (DYY)
Storage by Location

- San Bernardino Area Basin: 64,000
- San Jacinto: 19,500
- Chino: 14,000
- Orange County: 36,000
- Riverside: 6,000
- Elsinore: 4,500

Total = 136-144,000 AF

Anticipated Storage Allocation by Agency

- EMWD: 36,000 AF
- Valley: 36,000 AF
- WMWD: 36,000 AF
- OCWD/MWDOC: 36,000 AF

Total = 136-144,000 AF
SARCCUP Background

Storage by Location

Chino Basin (0-14,000 af)

San Bernardino Area Basin* (64,000 af)

Riverside Basin (6,000 af)

San Jacinto Basin (19,500 af)

Orange County Basin (36,000 af)

Bedford-Coldwater (Elsinore) (4,500 af)

* Not a MWD Member Agency; Valley is a SWP Contractor
Purpose of Agreement
SARCCUP Operational Principles
Major Terms and Conditions with MWD
Purpose of Agreement

• Establish Terms and Conditions for the purchase, delivery and use of surplus Valley State Water Project (SWP) water pursuant to MWD’s Administrative Code.

• Describe relationship with SARCCUP-MWD member agencies, MWD and Valley.

• Document rate for surplus Valley water and financial arrangements.

• Determine processes for water deliveries and exchanges for the “Put” and “Take” scenarios.

• Document consistency with MWD’s policy regarding Extraordinary Supply designation.
SARCCUP Operational Principles

• In all cases, MWD pays for surplus Valley SWP water and SARCCUP-MWD member agencies pay MWD full-service Tier 1 rate at time of delivery.
• All deliveries are through MWD facilities or MWD “virtual meter”.
• No banked groundwater introduced into MWD system - in-lieu deliveries.
• Put Scenarios (Storage):
  – **Put Scenario A (Direct MWD Delivery)** – MWD water purchased by a SARCCUP-MWD member agency for direct delivery to its SARCCUP storage facilities.
  – **Put Scenario B (Indirect MWD Delivery)** – MWD water purchased for one SARCCUP-MWD member agency for delivery to another SARCCUP-MWD member agency’s storage facilities.
  – **Put Scenario C (Delivery to Valley)** – Delivery of a SARCCUP-MWD member agency’s water to Valley’s SARCCUP recharge facilities (MWD “virtual meter”) for storage in the SBBA bank (outside the MWD service area).
SARCCUP Operational Principles (continued)

• Take Scenarios (Recovery) involving MWD:
  – **Take Scenario 1 (Direct Local Delivery)** – Pumping and direct conveyance of stored water between SARCCUP-MWD member agencies using local interagency conveyance facilities.
  – **Take Scenario 2 (In-lieu MWD Delivery)** – Pumping and local use of water by a SARCCUP-MWD member agency (pumping agency) that was previously stored on behalf of another SARCCUP-MWD member agency (benefitting agency), accompanied by an equivalent reduction in the pumping agency’s MWD deliveries and an equivalent increase in the benefitting agency’s MWD purchases.

• SARCCUP operations as described are consistent with MWD’s Administrative Code and MWD’s Water Supply Allocation Plan.
Major Terms and Conditions

• MWD to purchase surplus water from Valley.
• MWD makes available an amount equivalent to 50% of the amount purchased to SARCCUP-MWD member agencies at the full-service Tier 1 rate.
• MWD/Valley have a separate agreement for purchase of water.
Major Terms and Conditions (continued)

• Agencies may purchase more than 50% equivalent if MWD does not take all water offered by Valley.

• All water purchased by agencies from MWD equivalent to amounts made available by Valley to MWD can be designated as Extraordinary Supply.
SARCCUP Operational Scenarios and Examples
## Examples with Put and Take Scenarios

<table>
<thead>
<tr>
<th>Examples</th>
<th>Put Scenarios¹</th>
<th>Take Scenarios¹</th>
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<tbody>
<tr>
<td>I</td>
<td>A – Direct MWD Delivery</td>
<td>Pump and Use Locally</td>
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<tr>
<td>II</td>
<td>B – Indirect MWD Delivery</td>
<td>1 – Direct Local Delivery</td>
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<tr>
<td>III</td>
<td>B – Indirect MWD Delivery</td>
<td>2 – In-Lieu MWD Delivery</td>
</tr>
<tr>
<td>IV</td>
<td>C – Delivery to Valley</td>
<td>1 – Direct Local Delivery</td>
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¹ Based on Operational Term Sheet for MWD and SARCCUP-MWD Member Agencies’ Agreement
Example I
Put Scenario A (Direct MWD Delivery)
Take Scenario (Pump and Use Locally)
Example I (Water) – Put Scenario A (Direct MWD Delivery)

MWD purchases available surplus Valley water for MWD and WMWD for storage
• WMWD banks 1,000 AF in its own basins
MWD purchases available surplus Valley water for MWD and WMWD for storage
• WMWD banks 1,000 AF in its own basins
Example I (Water) – Take Scenario (Pump and Use Locally)

- WMWD pumps the stored water and uses it locally
- MWD Member Agencies
  - San Jacinto
  - EMWD
  - Riverside
  - Elsinore
- State Water Project
  - Valley
  - SBBA
- MWDOC (OCWD)
  - Orange County
- WMWD
  - 1,000 AF Extracted
  - Elsinore & Riverside
- Start Here
Example II
Put Scenario B (Indirect MWD Delivery)
Take Scenario 1 (Direct Local Delivery)
Example II (Water) – Put Scenario B (Indirect MWD Delivery)

MWD purchases available surplus Valley water for MWD and EMWD for storage in WMWD’s Bank
- WMWD banks 1,000 AF in Elsinore/Riverside basins for EMWD
Example II (Payment) – Put Scenario B (Indirect MWD Delivery)

MWD purchases available surplus Valley water for MWD and EMWD for storage in WMWD’s Bank

- EMWD pays WMWD the MWD cost and recharge cost for the delivered water
- WMWD passes through the MWD cost to pay MWD for the delivered water
- WMWD keeps the recharge cost

MWD Member Agencies

State Water Project

Valley Surplus

1,000 AF

EMWD

WMWD

MWDOC (OCWD)

Orange County

SBBA

San Jacinto

Orange County

MWDOC (OCWD)
Example II (Water/Payment) – Take Scenario 1 (Direct Local Delivery)

EMWD calls on its banked supply from WMWD’s Bank
- WMWD directly delivers 1,000 AF to EMWD
- EMWD pays WMWD extraction cost

MWD Member Agencies

State Water Project

WMWD delivers water to EMWD via existing connections
Example III
Put Scenario B (Indirect MWD Delivery)
Take Scenario 2 (In-Lieu MWD Delivery)
Example III (Water) – Put Scenario B (Indirect MWD Delivery)

MWD purchases available surplus Valley water for MWD and EMWD for storage in WMWD’s Bank
- WMWD banks 1,000 AF in Elsinore/ Riverside basins for EMWD

MWD Member Agencies

State Water Project

Start Here

Valley

SBBA

EMWD

San Jacinto

MWDOC (OCWD)

Orange County

WMWD

Elsinore & Riverside

1,000 AF

1,000 AF Recharged

2,000 AF Valley Surplus

MWD purchases available surplus Valley water for MWD and EMWD for storage in WMWD’s Bank
- WMWD banks 1,000 AF in Elsinore/ Riverside basins for EMWD
Example III (Payment) – Put Scenario B (Indirect MWD Delivery)

MWD purchases available surplus Valley water for MWD and EMWD for storage in WMWD’s Bank
- EMWD pays WMWD the MWD cost and recharge cost for the delivered water
- WMWD passes through the MWD cost to pay MWD for the delivered water
- WMWD keeps the recharge cost
Example III (Water) – Take Scenario 2 (In-lieu MWD Delivery)

EMWD calls on banked water from WMWD’s bank and delivery is in-lieu via MWD
- EMWD receives additional supply from MWD
- WMWD extracts the water from its basin and uses it locally in-lieu of imported water from MWD
Example III (Payment) – Take Scenario 2 (In-lieu MWD Delivery)

EMWD calls on banked water from WMWD’s bank and delivery is in-lieu via MWD
- WMWD pays MWD for normal imported water deliveries less the same amount of extracted water
- WMWD pays MWD cost to EMWD
- EMWD pays MWD for normal imported water deliveries plus the same amount of extracted water
- EMWD pays WMWD extraction cost

EMWD calls on banked water from WMWD’s bank and delivery is in-lieu via MWD
- WMWD pays MWD for normal imported water deliveries less the same amount of extracted water
- WMWD pays MWD cost to EMWD
- EMWD pays MWD for normal imported water deliveries plus the same amount of extracted water
- EMWD pays WMWD extraction cost
Examples using the SARCCUP Valley Bank
Goals and Objectives

• The Valley Bank (SBBA) is critical to SARCCUP program success and DWR Prop 84 funding requirements.

• While location is outside of the MWD service area, SARCCUP-MWD member agencies are paying MWD the current full-service Tier 1 rate for surplus Valley water that MWD purchases.

• SARCCUP-MWD member agencies pay the MWD full-service Tier 1 rate at time of “Put,” consistent with deliveries to SARCCUP storage facilities within MWD service area.
Example IV: Storage in SARCCUP Valley Bank
(50% MWD, 50% SARCCUP-MWD Member Agencies)

Put Scenario C (Delivery to Valley)
Take Scenario 1 (Direct Local Delivery)
Example IV (Water) – Put Scenario C (Delivery to Valley)

MWD purchases available surplus Valley water for MWD & SARCCUP-MWD member agencies to store in Valley Bank
- Valley declares surplus of 6,000 AF
- 50% is delivered to MWD
- 50% is delivered through a MWD “virtual meter” (VM) for recharge in Valley’s Bank for benefit of SARCCUP-MWD member agencies
- Banked water is purchased through MWD at time of “Put”
Example IV (Payment) – Put Scenario C (Delivery to Valley)

MWD purchases available surplus Valley water for MWD & SARCCUP-MWD member agencies to store in Valley Bank
- MWD pays Valley ($Commodity + $Energy) for the full 6,000 AF
- SARCCUP-MWD member agencies pay MWD full-service Tier 1 rate at time of “Put” for 50% (3,000 AF)
- SARCCUP-MWD member agencies pay Valley to recharge the 3,000 AF at time of “Put”
Example IV (Water/Payment) – Take Scenario 1 (Direct Local Delivery)

SARCCUP-MWD member agencies call on their banked supply from Valley Bank
- WMWD extracts and delivers banked water to SARCCUP-MWD member agencies through WMWD/SARCCUP facilities
- SARCCUP-MWD member agencies pay WMWD to extract and deliver the banked water
SARCCUP Operating & Finance Committee

1. To be formed prior to project operations

2. Committee Members
   – Representatives from SARCCUP Member Agencies

3. Purpose of Committee
   – To coordinate purchases, delivery and extractions of water for water banking facilities
   – Manage and oversee related activities (consultant?)
     • Track transactions among MWD, Valley and SARCCUP-MWD Member Agencies
     • Prepare annual reports and other reports as needed
     • Prepare, maintain and periodically update financial and operational model
   – Prepare recommendations for SARCCUP member agencies’ governing boards as needed
Next Steps
Proposed Next Steps

1. Receive input from MWD staff on draft Operational Term Sheet
2. Update draft Operational Term Sheet
3. Obtain final concurrence from MWD staff on terms and conditions in Operational Term Sheet
4. Prepare Draft MWD-SARCCUP Agreement based upon Operational Term Sheet and circulate for review/comment
5. Obtain concurrence from MWD staff and legal and finalize MWD-SARCCUP Agreement
6. Obtain Valley-MWD Agreement approval by MWD Board
7. Administratively execute the MWD-SARCCUP Agreement
Presented on behalf of the SARCCUP Agencies

Thank you!
Appendix
Additional Slides
Example V: MWD Declines to Participate
(0% MWD, 100% SARCCUP-MWD Member Agencies)

Put Scenario C (Delivery to Valley)
Take Scenario 1 (Direct Local Delivery)
Example V (Water) – Put Scenario C (Delivery to Valley)

MWD declines to participate in available surplus Valley water but purchases surplus water for benefit of SARCCUP-MWD member agencies to store in Valley Bank
- Valley declares surplus of 6,000 AF
- MWD declines to participate
- SARCCUP-MWD member agencies choose to participate (100% share)
- 6,000 AF is delivered through a MWD “virtual meter” (VM) for recharge in Valley’s Bank for the benefit of SARCCUP-MWD member agencies
- Banked water is purchased through MWD at time of “Put”
Example V (Payment) – Put Scenario C (Delivery to Valley)

MWD declines to participate in available surplus Valley water but purchases surplus water for benefit of SARCCUP-MWD member agencies to store in Valley Bank
- MWD pays Valley ($Commodity + $Energy) for the full 6,000 AF recharged
- SARCCUP-MWD member agencies pay MWD the full-service Tier 1 rate at time of “Put”
- SARCCUP-MWD member agencies pay Valley to recharge the 6,000 AF at time of “Put”

MWD Member Agencies

State Water Project

- $MWD \times 6,000 \text{ AF}
- (SMWD + $Recharge) \times 4,000 \text{ AF}
- (SMWD + $Recharge) \times 2,000 \text{ AF}
- $Recharge \times 6,000 \text{ AF}

SARCCUP Operating & Finance Committee

Valley

- 6,000 AF Valley Surplus
- 6,000 AF delivered for benefit of SARCCUP-MWD member agencies (MWD paid at “Put”)

SBBA

EMWD
- MWDOC (OCWD)
- San Jacinto Orange County (4,000 AF)

WMWD
- Elsinore & Riverside (2,000 AF)
Example V (Water/Payment) – Take Scenario 1 (Direct Local Delivery)

SARCCUP-MWD Member Agencies call on their banked supply from Valley Bank
• Call for 6,000 AF of banked supply
• WMWD extracts and delivers banked water to SARCCUP-MWD member agencies through WMWD/SARCCUP facilities
• SARCCUP-MWD member agencies pay WMWD to extract and deliver their portion of the banked water

MWD Member Agencies

State Water Project

SARCCUP Operating & Finance Committee

EMWD
MWDOC (OCWD)

San Jacinto Orange County
(4,000 AF)

WMWD

Elsinore & Riverside
(2,000 AF)

SBBA
6,000 AF Bank

Valley

Start Here

4,000 AF via Existing Connections & SA River
$Extract x 4,000 AF

6,000 AF via RPU PL & Cannon Campbell PS
EXAMPLE I: WMWD Purchases Water, Pumps and Uses it Locally

*Reads across rows*

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**LEGEND**

- $ Money Paid
- -$ Money Received
### EXAMPLE II: WMWD Stores Water for EMWD

*Reads across rows*

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<th>PUT - Indirect MWD Delivery</th>
<th>TAKE - Direct Local Delivery</th>
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</tr>
<tr>
<td>MWD Full-Service Tier 1 Rate</td>
<td>$</td>
<td>+/-</td>
</tr>
<tr>
<td>Recharge Rate</td>
<td>$</td>
<td>-$</td>
</tr>
<tr>
<td>Extraction Rate</td>
<td>$</td>
<td>-$</td>
</tr>
</tbody>
</table>

**LEGEND**

- $ Money Paid
- -$ Money Received
EXAMPLE III: EMWD Stores Water in WMWD Bank and Purchases MWD Water In-lieu of Pumping

**Reads across rows**

<table>
<thead>
<tr>
<th>Description</th>
<th>PUT - Indirect MWD Delivery</th>
<th>TAKE - In-Lieu MWD Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MWD</td>
<td>Valley</td>
</tr>
<tr>
<td>Commodity and Energy Rates</td>
<td>-$</td>
<td>$</td>
</tr>
<tr>
<td>MWD Full-Service Tier 1 Rate</td>
<td>$</td>
<td>+/-</td>
</tr>
<tr>
<td>Recharge Rate</td>
<td>$</td>
<td>-$</td>
</tr>
<tr>
<td>Extraction Rate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LEGEND**

- $ Money Paid
- $ Money Received
- $ Pass-through funds to MWD
## EXAMPLES IV/V: Water is Stored in Valley's Bank

### Reads across rows

<table>
<thead>
<tr>
<th>Description</th>
<th>PUT - Delivery to Valley</th>
<th>TAKE - Direct Local Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commodity and Energy Rates</td>
<td>MWD</td>
<td>Valley</td>
</tr>
<tr>
<td></td>
<td>-$</td>
<td>$</td>
</tr>
<tr>
<td>MWD Full-Service Tier 1 Rate</td>
<td>$</td>
<td>-$⅓$</td>
</tr>
<tr>
<td>Recharge Rate</td>
<td>$</td>
<td>-$⅓$</td>
</tr>
<tr>
<td>Extraction Rate*</td>
<td>$</td>
<td>-$⅔$/-$⅓$</td>
</tr>
</tbody>
</table>

* Western funds the extraction costs for water pumped and is reimbursed by Eastern and MWDOC (OCWD) for their share.

**LEGEND**

- $ Money Paid
- $ Money Received