Recommendation to Commission:

- That the Commission approve Work Orders with E.S. Babcock Laboratories in the amount of $87,000 for water quality sampling and analysis services and Western Municipal Water District in the amount of $117,000 for Brine Line maintenance and operations activities; and approve the budget for Year Two of the existing Task Order with Houston Harris PCS, Inc. in the amount of $225,000 for pipeline cleaning.
Inland Empire Brine Line
# Brine Line Service Contracts

<table>
<thead>
<tr>
<th>Service Provider</th>
<th>Scope of Work</th>
<th>Amount</th>
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<tbody>
<tr>
<td>WMWD</td>
<td>Water Quality Sampling</td>
<td>$117,000</td>
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<td></td>
<td>Brine Line Maintenance</td>
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<tr>
<td></td>
<td>Emergency Response</td>
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<tr>
<td>E.S. Babcock Laboratories</td>
<td>2,700 sample analysis</td>
<td>$87,000</td>
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<tr>
<td>Houston Harris</td>
<td>20 days Reach 4B Cleaning</td>
<td>$225,000</td>
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<tr>
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<td>7 days Reach 4E Cleaning</td>
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<tr>
<td></td>
<td>Water Truck</td>
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<tr>
<td></td>
<td>Line Cleaning Equipment</td>
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</tr>
<tr>
<td></td>
<td>Traffic Control</td>
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</tr>
<tr>
<td></td>
<td>CCTV inspection post-cleaning</td>
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</table>
Brine Line Service Contracts

Recommendation to Commission:

- That the Commission approve Work Orders with E.S. Babcock Laboratories in the amount of $87,000 for water quality sampling and analysis services and Western Municipal Water District in the amount of $117,000 for Brine Line maintenance and operations activities; and approve the budget for Year Two of the existing Task Order with Houston Harris PCS, Inc. in the amount of $225,000 for pipeline cleaning.
Inland Empire Brine Line
Sewer System Management Plan (SSMP) Audit

SAWPA Commission
Item 5.C
June 21, 2016
Sewer System Management Plan

Recommendation to Commission:

- Receive and file
## Sewer System Management Plan

<table>
<thead>
<tr>
<th>SSMP Sections</th>
<th>Plan and Schedule</th>
<th>FOG Control Program</th>
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<tbody>
<tr>
<td>Goals and Organizational Structure</td>
<td>System Evaluation and Capacity Assurance Plan</td>
<td></td>
</tr>
<tr>
<td>Legal Authority</td>
<td>Monitoring, Measurement and Program Modifications</td>
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<tr>
<td>O&amp;M Program</td>
<td>Program Audits</td>
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<tr>
<td>Design and Performance Standards</td>
<td>Communication Program</td>
<td></td>
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<tr>
<td>Overflow Emergency Response Plan</td>
<td>Certification</td>
<td></td>
</tr>
</tbody>
</table>
SSMP Organization

Volume 1
- Executive Summary
- SSMP Sections

Volume 2
- 40 Appendices
- SSMP Internal Audit
  - Based on SWRCB Pre-inspection Questionnaire
  - Major finding focuses on requiring Overflow Emergency Response for Contractors
Sewer System Management Plan

Recommendation to Commission:

- Receive and file
GIS Tools - DigAlert
GIS Tools – MAS Inspections
SSMP Major Changes

- Develop GIS Asset Management Tools
- Adjustment of Line Cleaning Frequencies and Approach
- Training Protocols and Requirements
- Documentation of Utility Markings – Contractor Coordination
- Aggressive A/V Maintenance and Replacement Program
- Installation of 2 sediment traps to facilitate maintenance
Sewer System Management Plan

- **Strategic Goals**
  - Facilitate water supply through groundwater desalting and protecting watershed resources
  - Manage and operate the Brine Line in an environmentally and sustainable way
  - Provide adequate capacity for existing and projected future customers
  - Continue to improve Brine Line planning and operations
Approval of Submitting a Proposal to the Bureau of Reclamation on Basin Planning

SAWPA Commission
June 21, 2016
Recommendation

- That the Commission approve the submittal of Santa Ana Basin Study Update Proposal to the Bureau of Reclamation.
Basis for Recommendation

- OWOW Strategic Goals for SAWPA
- Allows SAWPA to meet State requirements
- Furthers relationship with Bureau
Basin Study Update

2011-2013

RECLAMATION
Managing Water in the West

SANTA ANA WATERSHED BASIN STUDY
INLAND EMPIRE INTERCOURSE INFECTION ANALYSIS
SCHEMATIC REPORT
JULY 2013 (FINAL – 16 JUL 2013)

2017-2018

Baseline Study Update

Santa Ana River Watershed

Moving into Implementation

FINAL

ONE WATER
ONE WATERSHED

SAWPA
Bureau Scoring Criteria

- Demand and supply study required
- Climate change analysis required
- Build on Basin Study

Note: $2,000,000 available across Reclamation regions
Proposal to Reclamation

- **Spatially analyze** the projected impacts modeled in the original 2013 Santa Ana Basin Plan
- **Present the data** from the Basin Study and the Basin Study Update to the stakeholders
- **Other Prop 1** Integrated Regional Water Management Requirements
Proposal to Reclamation

- **Spatially analyze** the projected impacts modeled in the original 2013 Santa Ana Basin Plan
- **Present the data** from the Basin Study and the Basin Study Update to the stakeholders
- **Other Prop 1** Integrated Regional Water Management Requirements
Spatial/Data Analysis (Impacts)

- Water Supply
- Water Quality
- Flooding
- Ecosystem and Habitat
Spatial Analysis Example

- Ecosystem and Habitat
Data Analysis Example

- Ecosystem and Habitat

<table>
<thead>
<tr>
<th>Time</th>
<th>Observed Air Temperature</th>
<th>Observed Water Temperature</th>
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</thead>
<tbody>
<tr>
<td>1990</td>
<td>95</td>
<td>100</td>
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<tr>
<td>2010</td>
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<td>100</td>
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</table>
Data Analysis Example

- Ecosystem and Habitat

<table>
<thead>
<tr>
<th>Time</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>95</td>
</tr>
<tr>
<td>2010</td>
<td>100</td>
</tr>
</tbody>
</table>

Observed Air Temperature
Observed Water Temperature

ISOLATE RELATIONSHIP
Data Analysis Example

- Ecosystem and Habitat

Projected Air Temperature

2013 Basin Study

Temperature

95 100

Time

2020 2025

Projected Air Temperature
Data Analysis Example

- Ecosystem and Habitat

2013 Basin Study

Projected Air Temperature

Calculated Water Temperature?

<table>
<thead>
<tr>
<th>Time</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>95</td>
</tr>
<tr>
<td>2025</td>
<td>100</td>
</tr>
</tbody>
</table>

Time

Temperature
Data Analysis Example

- Ecosystem and Habitat

Projected Air Temperature

2013 Basin Study

Calculation Water Temperature?

RELATIONSHIP
Data Analysis Example

- **Ecosystem and Habitat**

<table>
<thead>
<tr>
<th>Time</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>95</td>
</tr>
<tr>
<td>2025</td>
<td>100</td>
</tr>
</tbody>
</table>

2013 Basin Study

- Projected Air Temperature
- Calculated Water Temperature

2018 Basin Study Update
Proposal to Reclamation

- **Spatially analyze** the projected impacts modeled in the original 2013 Santa Ana Basin Plan
- **Present the data** from the Basin Study and the Basin Study Update to the stakeholders
- **Other Prop 1 Integrated Regional Water Management Requirements**
Proposition 1 IRWM Requirements for Plans

- SAWPA Commission briefed April 19, 2016
- Prioritize vulnerabilities
- Plan to further gather data related to climate
- Disadvantaged Community impacts/vulnerabilities
- Groundwater Sustainability Plans Connection
- Stormwater Resources Plan Connection
Basin Study Update Overall Timeline

- **June 22, 2016** Proposal due to Bureau
- **Aug/Sept 2016** Bureau decides
- **Early 2017** Bureau execute Agreement
- **2017-2018** Implement Scope of Work
## Basin Study Update Scope of Work Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Task Description</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Data Gathering and Collaborative Outreach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1a</td>
<td>Review and update</td>
<td>Qtr 1</td>
<td>Qtr 2</td>
</tr>
<tr>
<td>1b</td>
<td>Collaborate with stakeholders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1c</td>
<td>Identify data sets available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1d</td>
<td>Finalize MOU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Modeling and Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2a</td>
<td>Find the relationship between data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2b</td>
<td>Use climate projections from Basin Study</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2c</td>
<td>Perform an integrated watershed analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2d</td>
<td>Perform vulnerabilities analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2e</td>
<td>Rank vulnerabilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Coordinate Planning on a Watershed Scale</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3a</td>
<td>Conduct an integrated gap analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3b</td>
<td>Develop a watershed approach</td>
<td></td>
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<tr>
<td>3c</td>
<td>Coordinate planning cycles</td>
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<td>3d</td>
<td>Coordinate water quality analysis</td>
<td></td>
<td></td>
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<tr>
<td>3e</td>
<td>Coordinate water supply/demand analysis</td>
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<tr>
<td>4</td>
<td>Stakeholder Engagement (Outreach)</td>
<td></td>
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</tr>
<tr>
<td>4a</td>
<td>Create Outreach Plan</td>
<td></td>
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<tr>
<td>4b</td>
<td>Share Basin Study Update results</td>
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</table>

**Total** | | | | | | | |
## Basin Study Update Budget

<table>
<thead>
<tr>
<th>Task</th>
<th>Task Description</th>
<th>Cost</th>
<th>SAWPA Share</th>
<th>Reclamation Share</th>
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<tr>
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<td>Data Gathering and Collaborative Outreach</td>
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<td>Review and update</td>
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<td>1b</td>
<td>Collaborate with stakeholders</td>
<td>$15,000</td>
<td>100%</td>
<td>0%</td>
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<tr>
<td>1c</td>
<td>Identify data sets available</td>
<td>$20,000</td>
<td>50%</td>
<td>50%</td>
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<tr>
<td>1d</td>
<td>Finalize MOU</td>
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<td>50%</td>
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<tr>
<td>2</td>
<td>Modeling and Analysis</td>
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<td>2a</td>
<td>Find the relationship between data</td>
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<td>2b</td>
<td>Use climate projections from Basin Study</td>
<td>$135,000</td>
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<td>2c</td>
<td>Perform an integrated watershed analysis</td>
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<td>Perform vulnerabilities analysis</td>
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<td>Rank vulnerabilities</td>
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<td>5%</td>
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<td>3</td>
<td>Coordinate Planning on a Watershed Scale</td>
<td>$157,000</td>
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<tr>
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<td>Conduct an integrated gap analysis</td>
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<td>Develop a watershed approach</td>
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<td>0%</td>
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<tr>
<td>3c</td>
<td>Coordinate planning cycles</td>
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<td>100%</td>
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<td>3d</td>
<td>Coordinate water quality analysis</td>
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<td>Stakeholder Engagement (Outreach)</td>
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<td>5%</td>
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<tr>
<td>4a</td>
<td>Create Outreach Plan</td>
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<td>5%</td>
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<td>4b</td>
<td>Share Basin Study Update results</td>
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<td><strong>Total</strong></td>
<td><strong>$798,000</strong></td>
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</table>

**SAWPA Share**
- $399,000

**Reclamation Share**
- $399,000
Basin Study = Bureau Partnership

- Partnership - no transfer of funding
  - SAWPA pledges resources (Fund 373)
  - Bureau pledges resources
- Agreement required, similar to 2010 agreement
Recommendation

- That the Commission approve the submittal of Santa Ana Basin Study Update Proposal to the Bureau of Reclamation.
State Support

- Grant Funds – up to $250,000
- Local match must be spent - $25,000 to $125,000
- Applications due August 2016
Purpose and Objectives

- Fulfill **SAWPA’s role** as a CA IRWM Program Regional Water Management Group and provide for process of determining IRWM funding determinations. Meet statutory requirements.
- **Prepare an integrated watershed-wide water management plan that is updated regularly** that meets regional needs and DWR IRWM plan requirements, and provides safe, clean, reliable and affordable water for the Santa Ana River Watershed. Write a good plan. Credible regional plan that best serves the watershed that complies with funding requirements.
- **Facilitate** the discovery and development of new watershed solutions.
- **Maximize funding opportunities** and policy influence by uniting efforts watershed wide.
Quality Assurance Program

Proposition 84

June 21, 2016

Item 5F
Quality Assurance Program RFP

- Recommendation: the Commission authorize the release of a Request for Proposals for Quality Assurance Services to support the Proposition 84 grant program.

- Purpose: augment SAWPA staff performance of grant administration by providing independent verification of agreement compliance and project invoices
Tasks

- Prepare a Quality Assurance Plan, implement
- Quarterly certification of sub-grantee agreement compliance. Identification of differences
- Review of agreement deliverables (non-technical)
- Quarterly program updates/project summaries
- Review of agreement amendment requests
- Coordination with SAWPA, sub-grantee, conduct tours, respond to questions
- Review invoices, quarterly status reports, conduct site visits
- Final program summary, support annual audit (SAWPA), special audits (DOF)
Projects

- Round 1 – 13 projects, 6 projects remain active
- Round 2 – 18 projects, 18 projects remain active
- Drought Round – 2 projects with 4 components
- Final Round - 3 programs
Duration

- Duration of Proposition 84 (FY 17 – FY 21)

- Agreement for FY17 with annual review of follow-on FY scope of work, level of effort, cost
Proposals

- **Selection Criteria**
  - Understanding
  - Approach
  - Qualifications
  - Location of staff
  - Level of effort/cost
  - Proposal quality
  - References

- **Schedule**
  - July 6, 2016 Pre-proposal meeting
  - July 14, 2016 Proposals Due
  - July 21, 2016 Interviews
  - August 2, 2016 Recommendation to Commission
Recommendation: the Commission authorize the release of a Request for Proposals for Quality Assurance Services to support the Proposition 84 grant program.
Questions