Inland Empire Brine Line Rate

FY 2017-18 (Proposed)
Effective July 1, 2017

FY 2018-19 (For Planning Purposes Only)
Recommendation

- Commission adopt Resolution No. 2017.08, establishing new Inland Empire Brine Line rates effective July 1, 2017
Brine Line Rate

- Rate (5 components)
  - Pass-through BOD and TSS costs from OCSD

- Flow:
  - OCSD Treatment
  - OCSD O&M of SARI in Orange County (SAWPA share)
  - Variable O&M (example: line cleaning)
  - Contribution to Flow Imbalance Fund
  - Contribution to Capital Program

- Fixed Pipeline and Treatment:
  - Fixed O&M (example: Dig Alert markings)
  - Contributions to Flow Imbalance, Self Insurance Funds
  - Contribution to Capital Improvement, Pipeline Replacement
  - Debt Retirement, Self Insurance, OCSD Capital Program (SAWPA share)
Brine Line Rate

- Proposed FY18 rates based on Financial Model
  - Flow projections
    - Chino Preserve (domestic) to IEUA RP-5
  - CIP
    - Repayment of SRF loan for re-lining of Reaches IV-A and IV-B ($15.85M, 2012)
    - Reach V Repair, Nichols Road Relocation (Ongoing) ($15.0M SRF loan, 2018)
    - Reach IV-D Corrosion Repair (2018/19) $4.4M
    - Capital Repairs $0.5M – seal Mission Tunnel, Access Structures, raise MAS lids
  - OCSD Costs
    - Rock Removal Project $3.0M (76% SAWPA share of total)
    - O&M (SAWPA share for Reaches 1 – 8, 37.5% to 100%)
  - Maintain minimum reserves
Brine Line Rate

- New “Whereas” – Lease Capacity Pool may be considered during FY18
  - Included as part of draft Ordinance No. 8
<table>
<thead>
<tr>
<th></th>
<th>Fixed Pipe</th>
<th>Fixed Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>$5,639</td>
<td>$11,433</td>
</tr>
<tr>
<td>FY 17-18</td>
<td>$5,921</td>
<td>$12,007</td>
</tr>
<tr>
<td>FY 18-19 (planning)</td>
<td>$6,217</td>
<td>$12,607</td>
</tr>
</tbody>
</table>

Notes:
1. Fixed Pipe Million Gallons (MG) per Month based on pipeline capacity owned
2. Fixed Treatment Million Gallons Per Month based on treatment capacity owned
## Rates

<table>
<thead>
<tr>
<th></th>
<th>Flow</th>
<th>BOD</th>
<th>TSS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current</strong></td>
<td>$858</td>
<td>$307</td>
<td>$429</td>
</tr>
<tr>
<td><strong>FY 17-18</strong></td>
<td>$901</td>
<td>$307</td>
<td>$429</td>
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<tr>
<td><strong>FY 18-19</strong></td>
<td>$946</td>
<td>$313</td>
<td>$438</td>
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</tbody>
</table>

**Notes:**

1. Flow in Million Gallons (MG), BOD and TSS per 1,000 pounds (lbs)
2. BOD, TSS rates are “pass-through” from OCSD
## Rates

<table>
<thead>
<tr>
<th>Waste Strength</th>
<th>BOD or TSS Concentration</th>
<th>FY 17-18</th>
<th>FY 18-19 (a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brine</td>
<td>Less than 100 mg/l</td>
<td>$0.012</td>
<td>$0.012</td>
</tr>
<tr>
<td>Non-Brine Tier 1</td>
<td>100 to 999 mg/l</td>
<td>$0.017</td>
<td>$0.017</td>
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<tr>
<td>Non-Brine Tier 2</td>
<td>1,000 to 2,499 mg/l</td>
<td>$0.035</td>
<td>$0.036</td>
</tr>
<tr>
<td>Non-Brine Tier 3</td>
<td>2,500 and higher</td>
<td></td>
<td>(b)</td>
</tr>
</tbody>
</table>

(a) Future rate for planning purposes only. The Commission will separately evaluate and set the rates annually for each FY.

(b) Concentrations over 2,500 mg/l will be charged based on the actual concentration of the waste discharged using the following costs components:

$0.003/gallon, $0.729/pound of BOD, and $0.695/pound of TSS.
Permit Fees

No Change

- Direct Discharger $550/year
- Indirect Discharger $250/year
- Liquid Waste Hauler $225/year
- Emergency $1,000/year
  - Most emergency connections have no discharge
  - Permit preparation and administration, inspection, sampling, reporting still required
Recommendation

- Commission adopt Resolution No. 2017.08, establishing new Inland Empire Brine Line rates effective July 1, 2017
END
Inland Empire Brine Line
Reach V Rehabilitation and Improvement Project – Phase 1

Item 7.E

May 16, 2017
Work Completed

- By-pass System
  - 13,200 ft (100%)
- Maintenance Access Structures
  - 2 (22%)
- Access Pits
  - 27 (73%)
- Line Cleaning
  - 8,925 ft (70%)
- CCTV
  - 8,925 ft (70%)
- Laser Profiling
  - 8,925 ft (70%)
- CIPP Lining
  - 0.0 Ft (0%)
Ovality Results

11. Sta. 460+90 – 457+40
   - Range 0.7% - 9.0% / CIPP Line

12. Sta. 457+40 – 453+00
   - Range 0.7% - 9.0% / CIPP Line

13. Sta. 453+00 - 450+60
   - Range 1.5% - 10.0% / CIPP Line
   - One location 6 ft in length up to 12% Ovality
   - CIPP Line – Increase wall thickness at 12% Ovality

14. Sta. 446+00 – 450+60
   - Range 4.0% - 18%
   - Several locations 2 – 9 ft in length up to 14% Ovality
   - One location 9 feet in length up to 18% Ovality
   - Evaluate CIPP Liner with increase in wall thickness
11. Sta. 460+90 – 457+40
   - Range 0.7% - 9.0% / CIPP Line
12. Sta. 457+40 – 453+00
   - Range 0.7% - 9.0% / CIPP Line
13. Sta. 453+00 - 450+60

- Range 1.5% - 10.0% / CIPP Line
- One location 6 ft in length up to 12%
- CIPP Line possible thicker liner at 12% location
14. Sta. 446+00 – 450+60
- Range 4.0% - 18%
- Several locations 2 – 9 ft in Length >10%
- One location 9 feet in length up to 18%
- Evaluate CIPP Liner with increase in wall thickness
Public Outreach

- Attend Temescal Valley MAC Meeting
- Attend Temescal Valley Community Faire
- Project Website
What's Next

- Manufacture CIPP Liner
- Clean/CCTV/Laser Profile Reach 3
- Receive and Review Laser Profile Data Reach 2
- Preparation for Liner Installation
- Install Liners 1 – 4
  - Beginning June 6th
Reach V Rehabilitation and Improvement Project Phase 1

Task 1: Remove defective liner/PVC pipe and replace with new PVC pipe.
Task 2: Complete CKC deficiencies and place liners 1-10 into service.
Task 3: Remove by-pass system, complete CKC deficiencies.
Task 4: Rehabilitate Brine Line with Cured-In-Place Pipe.
Disadvantaged Communities Involvement Program

Mike Antos, Ph.D.
Senior Watershed Manager

SAWPA Commission Meeting
May 16, 2017
Active Participation of a diverse group of stakeholders
Successful implementation of an integrated regional water resource plan
DCI Program Background

- Scope was developed through significant stakeholder and partner engagement throughout 2016.
- OWOW Steering Committee feedback was instrumental and helped refine the scope.
- Funded entirely by Prop 1 grant to SAWPA
DCI Program Scope

- Three Program Elements
  - Strengths & Needs Assessment ($793,644)
  - Education & Engagement ($1,853,068)
  - Project Development ($3,338,288)

- Grant Administration ($315,000)

- Each element has multiple specific tasks
DCI Program Partners
The memo recommends:

1. That the Commission adopt Resolution No. 2017.9 authorizing the General Manager, or designee, to execute the Disadvantaged Community Involvement Program Grant Agreement 4600011889, and associated sub-agreements.
Homelessness & Water Symposium

Mike Antos, Ph.D.
Senior Watershed Manager

SAWPA Commission Meeting
May 16, 2017
Active Participation of a diverse group of stakeholders
Successful implementation of an integrated regional water resource plan
Symposium Background

- DCI Program serves underrepresented communities
- During outreach, unsheltered people were recommended by several as a community to engage
- Organized by SAWPA staff, CivicSpark Fellows, and hired contractor
Symposium Contractor

- Selected IEWK from three proposals
- Will be a not-to-exceed $18,000 contract
- DCI Program Grant supports the symposium
Symposium Purpose

- Create or strengthen relationships between individuals and organizations in the water and social services sectors.
- Link water management efforts to regional partnerships seeking to serve homeless people.
- Share best practices from water management through the region (and beyond), to engage social services sector with these approaches.
- Consider what water sector policies can be revised or added to support unsheltered people.
Symposium Logistics

- June 29, 2017, 8am – 1pm
- Stewarts Boathouse at Fairmount Park in Riverside
- Invitees:
  - Will be broadcast on OWOW Mailing list, as well as distributed by social services partners (county departments, sheriffs, advocates)
  - Hope to have water sector staff, public social service department staff, water quality advocates, homelessness advocates, water regulatory staff, perhaps some elected official staff.
  - Press release / media attendance expected
  - Between 60-100 expected
Symposium Panels (invited)

Panel 1 - **The State of Homelessness in the Santa Ana River Watershed**
- Michelle Davis, Riverside Housing Authority
- Eve Garrow, ACLU
- Mike Jones, San Bernardino Sheriff’s HOPE team
- Susan von Zabern, Riverside DPSS

Panel 2 - **Considering a Human Right to Water in California**
- Rev. Amanda Ford, Environmental Justice Coalition for Water
- Hope Smythe, Santa Ana Regional Water Quality Control Board
- A person who was formerly homeless (via SBC Sheriffs Dept)
- Anne Rios, Think Dignity

Keynote - Chris Brokate of the Clean River Alliance
The memo recommends:

1. That the Commission receive and file this informational report.
1. Combined Budget
2. Budget Detail by Fund Type
3. Assumptions Used
4. Benefit and Indirect Cost Allocations
5. Member Agency Contributions
Combined Revenues

- Discharge Fees
- Financing Proceeds
- Grant Proceeds
- Member Agency Contributions
- Participant Fees
- Mitigation Credit Sales
- Operating Transfers
- Use of Reserves
- Other Income
- Interest & Investments

2017:
- Discharge Fees: ~11
- Financing Proceeds: ~7
- Grant Proceeds: ~4
- Member Agency Contributions: ~2
- Participant Fees: ~1
- Mitigation Credit Sales: ~0
- Operating Transfers: ~0
- Use of Reserves: ~9
- Other Income: ~0
- Interest & Investments: ~0

2018:
- Discharge Fees: ~10
- Financing Proceeds: ~7
- Grant Proceeds: ~4
- Member Agency Contributions: ~2
- Participant Fees: ~1
- Mitigation Credit Sales: ~0
- Operating Transfers: ~0
- Use of Reserves: ~9
- Other Income: ~0
- Interest & Investments: ~0

2019:
- Discharge Fees: ~10
- Financing Proceeds: ~7
- Grant Proceeds: ~4
- Member Agency Contributions: ~2
- Participant Fees: ~1
- Mitigation Credit Sales: ~0
- Operating Transfers: ~0
- Use of Reserves: ~9
- Other Income: ~0
- Interest & Investments: ~0
### Combined Revenues

<table>
<thead>
<tr>
<th>Revenue</th>
<th>FYE 2017 Budget</th>
<th>FYE 2018 Budget</th>
<th>%(Inc.)/Dcr.</th>
<th>FYE 2019 Budget</th>
<th>%(Inc.)/Dcr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge Fees</td>
<td>$10,417,136</td>
<td>$11,427,616</td>
<td>(10.9%)</td>
<td>$11,090,587</td>
<td>3.0%</td>
</tr>
<tr>
<td>Financing Proceeds</td>
<td>0</td>
<td>7,500,000</td>
<td>(100.0%)</td>
<td>3,000,000</td>
<td>60.0%</td>
</tr>
<tr>
<td>Grant Proceeds</td>
<td>4,296,936</td>
<td>5,741,297</td>
<td>(33.6%)</td>
<td>4,777,256</td>
<td>16.8%</td>
</tr>
<tr>
<td>Member Agency Contributions</td>
<td>1,439,307</td>
<td>1,442,118</td>
<td>(0.2%)</td>
<td>1,471,695</td>
<td>(2.1%)</td>
</tr>
<tr>
<td>Participant Fees</td>
<td>946,878</td>
<td>1,682,056</td>
<td>(77.6%)</td>
<td>1,309,273</td>
<td>22.2%</td>
</tr>
<tr>
<td>Mitigation Credit Sales</td>
<td>44,490</td>
<td>88,980</td>
<td>(100.0%)</td>
<td>88,980</td>
<td>0.0%</td>
</tr>
<tr>
<td>Operating Transfers</td>
<td>0</td>
<td>144,252</td>
<td>(100.0%)</td>
<td>144,252</td>
<td>0.0%</td>
</tr>
<tr>
<td>Use of Reserves</td>
<td>5,805,215</td>
<td>9,280,479</td>
<td>(59.9%)</td>
<td>6,995,901</td>
<td>24.6%</td>
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<td>Other Income</td>
<td>171,782</td>
<td>202,027</td>
<td>(17.6%)</td>
<td>206,674</td>
<td>(2.3%)</td>
</tr>
<tr>
<td>Interest &amp; Investments</td>
<td>1,878,952</td>
<td>1,994,772</td>
<td>(6.2%)</td>
<td>1,173,582</td>
<td>41.2%</td>
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<tr>
<td><strong>Total</strong></td>
<td>$25,000,696</td>
<td>$39,503,596</td>
<td>(58.0%)</td>
<td>$30,258,199</td>
<td>23.4%</td>
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</tbody>
</table>
FYE 2018 Revenues - $39.5 M

- Discharge Fees: $11.4 M (29%)
- Financing Proceeds: $7.5 M (19%)
- Grant Proceeds: $5.7 M (15%)
- Use of Reserves: $9.3 M (23%)
- Interest & Investments: $2.0 M (5%)
- Other Income: $0.2 M (1%)
- Operating Transfers: $0.1 M (0%)
- Mitigation Credit Sales: $0.1 M (0%)
- Participant Fees: $1.7 M (4%)
- Member Agency Contributions: $1.4 M (4%)

Total Revenues: $39.5 M
FYE 2019 Revenues - $30.3 M

- Discharge Fees, $11.1, 37%
- Use of Reserves, $7.0, 23%
- Grant Proceeds, $4.8, 16%
- Financing Proceeds, $3.0, 10%
- Operating Transfers, $0.1, 0%
- Mitigation Credit Sales, $0.1, 0%
- Participant Fees, $1.3, 4%
- Member Agency Contributions, $1.5, 5%
- Other Income, $0.2, 1%
- Interest & Investments, $1.2, 4%

Combined Budget
Combined Expenses

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brine Line</td>
<td>10</td>
<td>13</td>
<td>16</td>
</tr>
<tr>
<td>BL Debt Service</td>
<td>5</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>General Fund</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>OWOW Fund</td>
<td>6</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Roundtable Fund</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>BL Capital Fund</td>
<td>15</td>
<td>16</td>
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</table>
## Combined Expenses

<table>
<thead>
<tr>
<th>Revenue</th>
<th>FYE 2017 Budget</th>
<th>FYE 2018 Budget</th>
<th>%(Inc.)/Dcr.</th>
<th>FYE 2019 Budget</th>
<th>%(Inc.)/Dcr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brine Line Enterprise Fund</td>
<td>$9,539,179</td>
<td>$11,427,616</td>
<td>(19.8%)</td>
<td>$11,090,587</td>
<td>3.0%</td>
</tr>
<tr>
<td>Brine Line Debt Service</td>
<td>3,028,588</td>
<td>3,060,719</td>
<td>(1.1%)</td>
<td>3,183,451</td>
<td>(4.0%)</td>
</tr>
<tr>
<td>General Fund</td>
<td>699,307</td>
<td>646,118</td>
<td>7.6%</td>
<td>650,695</td>
<td>(0.7%)</td>
</tr>
<tr>
<td>OWOW Fund</td>
<td>4,963,864</td>
<td>7,403,317</td>
<td>(49.1%)</td>
<td>6,380,106</td>
<td>13.8%</td>
</tr>
<tr>
<td>Roundtables Fund</td>
<td>1,772,928</td>
<td>1,419,206</td>
<td>20.0%</td>
<td>1,475,981</td>
<td>(4.0%)</td>
</tr>
<tr>
<td>BL Capital Fund</td>
<td>5,533,536</td>
<td>15,714,532</td>
<td>(184.0%)</td>
<td>7,986,032</td>
<td>49.2%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$25,537,400</strong></td>
<td><strong>$39,671,508</strong></td>
<td><strong>(55.8%)</strong></td>
<td><strong>$30,766,852</strong></td>
<td><strong>22.4%</strong></td>
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</tbody>
</table>
FYE 2018 Expenses - $39.7 M

- Capital Fund, $15.7, 39%
- Brine Line, $11.4, 29%
- General Fund, $0.6, 2%
- Debt Service, $3.1, 8%
- Roundtable Fund, $1.4, 3%
- OWOW Fund, $7.4, 19%
Combined Budget

FYE 2019 Expenses - $30.8 M

Capital Fund, $8.0, 26%
Brine Line, $11.1, 36%
Roundtables Fund, $1.5, 5%
OWOW Fund, $6.4, 21%
General Fund, $0.7, 2%
Debt Service, $3.2, 10%
Changes to Budget

• Changed the BOD rate:
  – FYE 2018 from $322 to $307
  – FYE 2019 from $330 to $313

• Changed the TSS rate:
  – FYE 2018 from $450 to $429
  – FYE 2019 from $462 to $438

• Reduced Non-Recurring Costs by $125K (FYE 2018) and $130K (FYE 2019)
  – Reduced Consulting by $40K per year
  – Reduced BL Operating Costs by $30K (FYE 2018) and $35K (FYE 2019)
  – Reduced Facility Repair & Maintenance by $55K per year
Changes to Budget

• Increased Reserve Contributions by $125K (FYE 2018) and $130K (FYE 2019)

• Revenue change
  – FYE 2018 reduced by $127,545
  – FYE 2019 reduced by $118,280

• Expense change
  – FYE 2018 reduced by $252,545
    • BOD/TSS Costs $127,545
    • Operating Costs $125,000
  – FYE 2019 reduced by $248,280
    • BOD/TSS Costs $118,280
    • Operating Costs $130,000
Brine Line Enterprise - Revenue

- Revenue
- Use of Reserves
- Interest & Investments

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge Fees</td>
<td></td>
<td></td>
<td>11</td>
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<tr>
<td>Use of Reserves</td>
<td></td>
<td>1</td>
<td></td>
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<tr>
<td>Interest &amp; Investments</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
FYE 2018

Brine Line Revenues $14.49 M

- Discharge Fees, $11.43, 79%
- Use of Reserves, $1.07, 7%
- Interest & Investments, $1.99, 14%
Brine Line Revenues $14.27 M

- Discharge Fees, $11.09, 78%
- Use of Reserves, $2.01, 14%
- Interest & Investments, $1.17, 8%
Brine Line Expenses $14.49 M

- Contribution to Reserves, $3.74, 26%
- Mgmt Costs, $2.94, 20%
- Consulting, $0.30, 2%
- Facility Repair, $0.70, 5%
- Treatment Costs, $3.34, 23%
- Debt Service, $3.06, 21%
- Operating Costs, $0.41, 3%
Brine Line Expenses $14.27 M

- Contribution to Reserves, $3.48, 25%
- Mgmt Costs, $3.33, 23%
- Consulting, $0.29, 2%
- Facility Repair, $0.72, 5%
- Debt Service, $3.18, 22%
- Treatment Costs, $2.87, 20%
- Operating Costs, $0.41, 3%
Reserve Contributions

<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipeline Repair/Replacement</td>
<td>$1,500,000</td>
<td>$1,500,000</td>
</tr>
<tr>
<td>Self Insurance Reserve</td>
<td>100,000</td>
<td>100,000</td>
</tr>
<tr>
<td>Debt Service Reserve</td>
<td>2,136,173</td>
<td>1,879,144</td>
</tr>
<tr>
<td><strong>Total Contribution to Reserves</strong></td>
<td><strong>$3,736,173</strong></td>
<td><strong>$3,479,144</strong></td>
</tr>
<tr>
<td>Fund</td>
<td>From</td>
<td>To</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>Pipeline Repair/Replacement</td>
<td>$0</td>
<td>$5,843,450</td>
</tr>
<tr>
<td>OCSD Rehabilitation Reserve</td>
<td>4,000,000</td>
<td>0</td>
</tr>
<tr>
<td>Brine Line Operating Reserve</td>
<td>1,843,450</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Contribution to Reserves</strong></td>
<td><strong>$5,843,450</strong></td>
<td><strong>$5,843,450</strong></td>
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## Reserve Balance (EOY)

<table>
<thead>
<tr>
<th>Reserve</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipeline Repair/Replacement</td>
<td>$13,519,815</td>
<td>$13,033,783</td>
</tr>
<tr>
<td>OCSD Rehabilitation</td>
<td>3,491,290</td>
<td>4,912,290</td>
</tr>
<tr>
<td>OCSD Future Capacity</td>
<td>1,722,932</td>
<td>1,722,932</td>
</tr>
<tr>
<td>Self-Insurance Reserve</td>
<td>3,937,788</td>
<td>4,037,788</td>
</tr>
<tr>
<td>Flow Imbalance Reserve</td>
<td>83,645</td>
<td>83,645</td>
</tr>
<tr>
<td>Debt Service Reserve</td>
<td>4,774,603</td>
<td>2,756,741</td>
</tr>
<tr>
<td>Capacity Management</td>
<td>7,815,546</td>
<td>7,815,546</td>
</tr>
<tr>
<td>Operating Reserve</td>
<td>2,000,000</td>
<td>2,000,000</td>
</tr>
<tr>
<td><strong>Total Reserves</strong></td>
<td><strong>$37,345,619</strong></td>
<td><strong>$31,941,726</strong></td>
</tr>
</tbody>
</table>
### Proposed Brine Line Rates

<table>
<thead>
<tr>
<th>Component</th>
<th>Actual FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>$858+5%</td>
<td>$901+5%</td>
<td>$946</td>
</tr>
<tr>
<td>BOD (per 1,000 lbs.)</td>
<td>$307+0%</td>
<td>$307+2%</td>
<td>$313</td>
</tr>
<tr>
<td>TSS (per 1,000 lbs.)</td>
<td>$429+0%</td>
<td>$429+2%</td>
<td>$438</td>
</tr>
<tr>
<td>Fixed Pipeline</td>
<td>$5,639+5%</td>
<td>$5,921+5%</td>
<td>$6,217</td>
</tr>
<tr>
<td>Fixed Treatment</td>
<td>$11,433+5%</td>
<td>$12,007+5%</td>
<td>$12,607</td>
</tr>
</tbody>
</table>
Capital Improvement Projects

- Brine Line Protection
- Reach V Repairs
- Reach IV-D Corrosion Repair

Years: 2017, 2018, 2019

Millions of Dollars
## Capital Project Funding – FYE 2018

<table>
<thead>
<tr>
<th>Project</th>
<th>Reserves</th>
<th>SRF Loan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brine Line Protection</td>
<td>$812,572</td>
<td>$0</td>
<td>$812,572</td>
</tr>
<tr>
<td>Reach V Repairs</td>
<td>6,987,574</td>
<td>7,500,000</td>
<td>14,487,574</td>
</tr>
<tr>
<td>Reach IV-D Corrosion Repairs</td>
<td>414,386</td>
<td>0</td>
<td>414,386</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$8,214,532</strong></td>
<td><strong>$7,500,000</strong></td>
<td><strong>$15,714,532</strong></td>
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</tbody>
</table>
### Capital Project Funding – FYE 2019

<table>
<thead>
<tr>
<th>Project</th>
<th>Reserves</th>
<th>SRF Loan</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brine Line Protection</td>
<td>$3,736,548</td>
<td>$0</td>
<td>$3,736,548</td>
</tr>
<tr>
<td>Reach V Repairs</td>
<td>269,167</td>
<td>0</td>
<td>269,167</td>
</tr>
<tr>
<td>Reach IV-D Corrosion Repairs</td>
<td>980,317</td>
<td>3,000,000</td>
<td>3,980,317</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,986,032</strong></td>
<td><strong>$3,000,000</strong></td>
<td><strong>$7,986,032</strong></td>
</tr>
</tbody>
</table>
OWOW Funds - Revenues

Millions

2.5
2.0
1.5
1.0
0.5
0.0

2017
2018
2019

Basin Planning General
USBR Partnership Studies
Watershed Mgmt - OWOW
Energy - Water DAC Grant
Prop 1 - DACI
Prop 84 Program Mgmt
Prop 84 Drought Projects
Prop 84 SARCCUP & Other
Revenues $7.34 M

- Prop 1 - DACI, $2.00, 27%
- Energy - Water DAC Grant, $1.67, 23%
- Prop 84 Program Mgmt, $0.69, 9%
- Watershed Mgmt - OWOW, $0.53, 7%
- USBR Partnership Studies, $0.07, 1%
- Basin Planning General, $0.36, 5%
- Prop 84 SARCCUP & Other, $0.76, 11%
- Prop 84 Drought Projects, $1.27, 17%
Revenues $7.34 M

Grant Proceeds, $5.74, 78%

Member Agency Contributions, $0.78, 11%

Participant Fees, $0.82, 11%
Revenues $6.02 M

Prop 1 - DACI, $1.75, 29%
Prop 84 Drought Projects, $1.18, 20%
Prop 84 SARCCUP & Other, $0.81, 13%
Basin Planning General, $0.36, 6%
USBR Partnership Studies, $0.07, 1%
Watershed Mgmt - OWOW, $0.55, 9%
Prop 84 Program Mgmt, $0.72, 12%
Energy - Water DAC Grant, $0.59, 10%
FYE 2019

Revenues $6.02 M

- Grant Proceeds, $4.78, 80%
- Member Agency Contributions, $0.80, 13%
- Participant Fees, $0.44, 7%
OWOW Fund - Expenses

- Basin Planning General
- USBR Partnership Studies
- Watershed Mgmt - OWOW
- Energy - Water DAC Grant
- Prop 1 - DACI
- Prop 84 Program Mgmt
- Prop 84 Drought Projects
- Prop 84 SARCCUP & Other

Years: 2017, 2018, 2019

Expenses in Millions:

0.0, 0.5, 1.0, 1.5, 2.0, 2.5
<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin Planning General</td>
<td>$348,350</td>
<td>$371,009</td>
<td>$385,131</td>
</tr>
<tr>
<td>USBR Partnership Studies</td>
<td>69,853</td>
<td>69,178</td>
<td>70,365</td>
</tr>
<tr>
<td>Watershed Management – OWOW</td>
<td>298,725</td>
<td>523,362</td>
<td>551,346</td>
</tr>
<tr>
<td>Prop 84 Program Management (all rounds)</td>
<td>1,062,225</td>
<td>686,522</td>
<td>718,154</td>
</tr>
<tr>
<td>Energy – Water DAC Grant Project</td>
<td>941,539</td>
<td>1,721,860</td>
<td>918,104</td>
</tr>
<tr>
<td>Proposition 1 – DACI</td>
<td>0</td>
<td>2,003,206</td>
<td>1,747,121</td>
</tr>
<tr>
<td>Prop 84 Drought Capital Projects</td>
<td>2,243,172</td>
<td>1,265,683</td>
<td>1,182,042</td>
</tr>
<tr>
<td>Prop 84 SARCCUP &amp; Other Projects</td>
<td>0</td>
<td>762,496</td>
<td>807,844</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,963,864</strong></td>
<td><strong>$7,403,317</strong></td>
<td><strong>$6,380,106</strong></td>
</tr>
</tbody>
</table>
Expenses $7.40 M

- **Prop 84 Drought Projects**, $1.27, 17%
- **Prop 84 SARCCUP & Other**, $0.76, 11%
- **Basin Planning General**, $0.37, 5%
- **USBR Partnership Studies**, $0.07, 1%
- **Watershed Mgmt - OWOW**, $0.52, 7%
- **Prop 84 Program Mgmt**, $0.69, 9%
- **Energy - Water DAC Grant**, $1.72, 23%
- **Prop 1 - DACI**, $2.00, 27%
FYE 2019

Expenses $6.38 M

- **Prop 84 SARCCUP & Other, $0.81, 13%**
- **Prop 84 Drought Projects, $1.18, 19%**
- **Energy - Water DAC Grant, $0.92, 14%**
- **Prop 1 - DACI, $1.75, 27%**
- **USBR Partnership Studies, $0.07, 1%**
- **Watershed Mgmt - OWOW, $0.55, 9%**
- **Prop 84 Program Mgmt, $0.72, 11%**
- **Basin Planning General, $0.39, 6%**
- **Prop 84 - DACI, $1.75, 27%**

Prop 84 - SARCCUP & Other
$0.81, 13%

Prop 84 Drought Projects
$1.18, 19%

Energy - Water DAC Grant
$0.92, 14%

Prop 1 - DACI
$1.75, 27%

USBR Partnership Studies
$0.07, 1%

Watershed Mgmt - OWOW
$0.55, 9%

Prop 84 Program Mgmt
$0.72, 11%

Basin Planning General
$0.39, 6%

Total Expenses: $6.38 M
## Prop 84 Projects (passthrough)

<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prop 84 Projects – Round I</td>
<td>$750,000</td>
<td>$750,000</td>
<td>$0</td>
</tr>
<tr>
<td>Prop 84 Projects – Round II</td>
<td>4,008,806</td>
<td>6,780,247</td>
<td>2,075,000</td>
</tr>
<tr>
<td>Prop 84 Project – Drought Round</td>
<td>1,622,500</td>
<td>4,133,341</td>
<td>100,000</td>
</tr>
<tr>
<td>Prop 84 – Final Round (SARCCUP)</td>
<td>0</td>
<td>9,416,637</td>
<td>10,612,335</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$6,381,306</strong></td>
<td><strong>$21,080,225</strong></td>
<td><strong>$12,787,335</strong></td>
</tr>
</tbody>
</table>
Roundtables Funds - Revenue

- Imported Water Recharge
- Basin Monitoring
- SAR Fish Conservation
- MSAR TMDL
- RWQ Monitoring
- Arundo Mgmt
- Emerging Constituents
- Forest First
- LESJWA Admin

Millions

- 2017
- 2018
- 2019
Revenues $1.32 M

- LESJWA Admin, $0.21, 16%
- Basin Monitoring, $0.27, 21%
- Forest First, $0.10, 8%
- Emerging Constituents, $0.04, 3%
- Arundo Mgmt, $0.09, 7%
- SAR Fish Conservation, $0.03, 2%
- Middle SAR TMDL, $0.22, 16%
- RWQ Monitoring, $0.36, 27%
FYE 2018

Revenues $1.32 M

- Participant Fees, $0.86, 65%
- Mitigation Credit Sales, $0.09, 7%
- Operating Transfer, $0.14, 11%
- Other Income, $0.20, 15%
- Member Agency Contributions, $0.02, 2%
FYE 2019

Revenues $1.33 M

- Imported Water Recharge, $0.01, 1%
- Basin Monitoring, $0.27, 20%
- SAR Fish Conservation, $0.03, 2%
- MSAR TMDL, $0.22, 16%
- RWQ Monitoring, $0.36, 27%
- LESJWA Admin, $0.22, 16%
- Forest First, $0.10, 8%
- Emerging Constituents, $0.04, 3%
- Arundo Mgmt, $0.09, 7%
FYE 2019

Revenues $1.33 M

- Participant Fees, $0.87, 65%
- Mitigation Credit Sales, $0.09, 7%
- Operating Transfer, $0.14, 11%
- Other Income, $0.21, 16%
- Member Agency Contributions, $0.02, 1%
Roundtables Funds – Expenses

- Imported Water Recharge
- Basin Monitoring
- SAR Fish Conservation
- MSAR TMDL
- RWQ Monitoring
- Arundo Mgmt
- Emerging Constituents
- Forest First
- LESJWA Admin

- 2017
- 2018
- 2019

Millions

2017
2018
2019
<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imported Water Recharge</td>
<td>$10,523</td>
<td>$7,698</td>
<td>$10,804</td>
</tr>
<tr>
<td>Basin Monitoring Program TF</td>
<td>739,511</td>
<td>404,772</td>
<td>280,534</td>
</tr>
<tr>
<td>SAR Fish Conservation</td>
<td>41,030</td>
<td>53,156</td>
<td>106,303</td>
</tr>
<tr>
<td>Middle SAR TMDL TF</td>
<td>354,456</td>
<td>196,554</td>
<td>200,470</td>
</tr>
<tr>
<td>RWQ Monitoring TF</td>
<td>149,546</td>
<td>327,988</td>
<td>333,802</td>
</tr>
<tr>
<td>Arundo Management &amp; Habitat</td>
<td>180,687</td>
<td>72,281</td>
<td>183,367</td>
</tr>
<tr>
<td>Emerging Constituents TF</td>
<td>59,166</td>
<td>40,528</td>
<td>40,719</td>
</tr>
<tr>
<td>Forest First</td>
<td>56,227</td>
<td>104,202</td>
<td>103,308</td>
</tr>
<tr>
<td>LESJWA Administration</td>
<td>181,782</td>
<td>212,027</td>
<td>216,674</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,772,928</strong></td>
<td><strong>$1,419,206</strong></td>
<td><strong>$1,475,981</strong></td>
</tr>
</tbody>
</table>
FYE 2018

Expenses $1.42 M

Imported Water Recharge, $0.01, 1%
Basin Monitoring, $0.40, 28%
SAR Fish Conservation, $0.05, 4%
MSAR TMDL, $0.20, 14%
RWQ Monitoring, $0.33, 23%
Forest First, $0.10, 7%
Emerging Constituents, $0.04, 3%
Arundo Mgmt, $0.07, 5%

LESJWA Admin, $0.21, 15%
FYE 2019

Expenses $1.48 M

- RWQ Monitoring, $0.33, 23%
- MSAR TMDL, $0.20, 13%
- SAR Fish Conservation, $0.11, 7%
- MSAR TMDL, $0.20, 13%
- EMERG CONSTITUENTS, $0.04, 3%
- Forest First, $0.10, 7%
- LESJWA Admin, $0.22, 15%
- Imported Water Recharge, $0.01, 1%
- Basin Monitoring, $0.28, 19%

Total Expenses: $1.48 M
General Fund Costs

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fund</td>
<td>450</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td>State Lobbying</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Federal Lobbying</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
## General Fund Costs

<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fund</td>
<td>$450,000</td>
<td>$450,000</td>
<td>$450,000</td>
</tr>
<tr>
<td>State Lobbying</td>
<td>223,005</td>
<td>181,154</td>
<td>184,980</td>
</tr>
<tr>
<td>Federal Lobbying</td>
<td>26,302</td>
<td>14,962</td>
<td>15,715</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$699,307</strong></td>
<td><strong>$646,118</strong></td>
<td><strong>$650,695</strong></td>
</tr>
</tbody>
</table>
## General Fund Costs

<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor and Benefits</td>
<td>$2,109,540</td>
<td>$2,095,924</td>
<td>$2,300,239</td>
</tr>
<tr>
<td>Education &amp; Training</td>
<td>56,300</td>
<td>57,300</td>
<td>57,300</td>
</tr>
<tr>
<td>Consulting &amp; Professional Services</td>
<td>95,000</td>
<td>146,000</td>
<td>134,400</td>
</tr>
<tr>
<td>Operating Costs</td>
<td>7,500</td>
<td>5,820</td>
<td>6,090</td>
</tr>
<tr>
<td>Repair &amp; Maintenance</td>
<td>131,085</td>
<td>103,270</td>
<td>105,540</td>
</tr>
<tr>
<td>Phone &amp; Utilities</td>
<td>71,000</td>
<td>68,200</td>
<td>73,620</td>
</tr>
<tr>
<td>Equipment &amp; Computers</td>
<td>212,710</td>
<td>274,800</td>
<td>232,900</td>
</tr>
<tr>
<td>Meeting &amp; Travel</td>
<td>54,200</td>
<td>57,500</td>
<td>57,500</td>
</tr>
<tr>
<td>Other Administrative Expenses</td>
<td>186,970</td>
<td>220,956</td>
<td>226,277</td>
</tr>
<tr>
<td>Insurance &amp; Fixed Assets</td>
<td>105,000</td>
<td>157,956</td>
<td>164,703</td>
</tr>
<tr>
<td>Retiree Medical &amp; Building Reserves</td>
<td>230,580</td>
<td>213,000</td>
<td>213,000</td>
</tr>
<tr>
<td>Total Before Indirect Cost Allocations</td>
<td>$3,259,885</td>
<td>$3,400,725</td>
<td>$3,571,569</td>
</tr>
<tr>
<td>Less Indirect Cost Allocations</td>
<td>(2,809,885)</td>
<td>(2,950,725)</td>
<td>(3,121,569)</td>
</tr>
<tr>
<td>Total General Fund Costs</td>
<td>$450,000</td>
<td>$450,000</td>
<td>$450,000</td>
</tr>
</tbody>
</table>
# Cash Flow Projections – FYE 2018

<table>
<thead>
<tr>
<th>Fund</th>
<th>Balance 06/30/17</th>
<th>Revenues/ Reserve Contributions</th>
<th>Expenses/ Use of Reserves</th>
<th>Balance 06/30/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fund</td>
<td>$2,267,163</td>
<td>$646,118</td>
<td>$646,118</td>
<td>$2,267,163</td>
</tr>
<tr>
<td>OWOW Fund</td>
<td>457,257</td>
<td>7,335,908</td>
<td>7,403,317</td>
<td>389,848</td>
</tr>
<tr>
<td>Roundtables Fund</td>
<td>1,782,561</td>
<td>1,318,704</td>
<td>1,419,206</td>
<td>1,682,059</td>
</tr>
<tr>
<td>Brine Line Enterprise</td>
<td>43,955,872</td>
<td>17,158,561</td>
<td>23,768,814</td>
<td>37,345,619</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$48,462,853</strong></td>
<td><strong>$26,459,291</strong></td>
<td><strong>$33,237,455</strong></td>
<td><strong>$41,684,689</strong></td>
</tr>
</tbody>
</table>
## Cash Flow Projections – FYE 2019

<table>
<thead>
<tr>
<th>Fund</th>
<th>Balance 06/30/17</th>
<th>Revenues/ Reserve Contributions</th>
<th>Expenses/ Use of Reserves</th>
<th>Balance 06/30/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fund</td>
<td>$2,267,163</td>
<td>$650,695</td>
<td>$650,695</td>
<td>$2,267,163</td>
</tr>
<tr>
<td>OWOW Fund</td>
<td>389,848</td>
<td>6,015,977</td>
<td>6,380,106</td>
<td>25,718</td>
</tr>
<tr>
<td>Roundtables Fund</td>
<td>1,682,059</td>
<td>1,331,457</td>
<td>1,475,981</td>
<td>1,537,534</td>
</tr>
<tr>
<td>Brine Line Enterprise</td>
<td>37,345,619</td>
<td>15,743,313</td>
<td>21,147,207</td>
<td>31,941,726</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$41,684,689</strong></td>
<td><strong>$23,741,442</strong></td>
<td><strong>$29,653,989</strong></td>
<td><strong>$35,772,140</strong></td>
</tr>
</tbody>
</table>
Labor Assumptions Used

• 28 FTE
  – 26 filled and approved FTE
  – 2 unfilled budgeted positions

• 4 Interns

• Approved 4% Merit Pool (both years)

• Approved 1.25% or annual indexed COLA using the LA-Riverside-Orange County CPI index (whichever is greater)
Labor Hours Distribution – FYE 2018

- General Fund: 38.6%
- Site Operations: 28.3%
- OWOW: 24.3%
- BL Capital: 5.1%
- Roundtable: 3.7%
- JPA Operations: 59.8%
- Paid Leave: 40.2%
Labor Hours Distribution – FYE 2019

- General Fund: 39.7%
- JPA Operations: 60.6%
- Paid Leave: 39.4%
- Roundtable: 3.6%
- BL Operations: 29.4%
- BL Capital: 4.1%
- OWOW: 23.2%
Total Labor Hours Distribution

<table>
<thead>
<tr>
<th>Fund</th>
<th>FYE 2018</th>
<th>% of Total</th>
<th>FYE 2019</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fund</td>
<td>23,953</td>
<td>38.6%</td>
<td>24,625</td>
<td>39.7%</td>
</tr>
<tr>
<td>Brine Line Operating Fund</td>
<td>17,550</td>
<td>28.3%</td>
<td>18,250</td>
<td>29.4%</td>
</tr>
<tr>
<td>Brine Line Capital Fund</td>
<td>3,176</td>
<td>5.1%</td>
<td>2,515</td>
<td>4.1%</td>
</tr>
<tr>
<td>OWOW Funds</td>
<td>15,075</td>
<td>24.3%</td>
<td>14,429</td>
<td>23.2%</td>
</tr>
<tr>
<td>Roundtable Funds</td>
<td>2,326</td>
<td>3.7%</td>
<td>2,261</td>
<td>3.6%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>62,080</strong></td>
<td><strong>100.0%</strong></td>
<td><strong>62,080</strong></td>
<td><strong>100.0%</strong></td>
</tr>
</tbody>
</table>
Benefit Assumptions Used

- Health insurance cap based on the lowest cost plan (Kaiser family) - $1,505.65/month
- Classic PERS 2% @ 55, PEPRA 2% @ 62
  - FYE 2018 employers rate (includes increase for lowered discount rate)
    - Classic = 10.0%
    - PEPRA = 7.5%
  - FYE 2019 employers rate (includes increase for lowered discount rate)
    - Classic = 10.9%
    - PEPRA = 8.0%
- Employer Paid Member Contribution (EPMC)
  - FYE 2018 = 4.2%
  - FYE 2019 = 2.8%
- GASB 45 Compliance – Annual Required Contribution (ARC)
  - FYE 2018 = $113,000
  - FYE 2019 = $113,000
## Total Payroll & Benefit Costs

<table>
<thead>
<tr>
<th>FYE</th>
<th>Benefits</th>
<th>Payroll</th>
<th>Total</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$1,107,707</td>
<td>$2,642,113</td>
<td>$3,749,820</td>
<td>3.7%</td>
</tr>
<tr>
<td>2016 *</td>
<td>1,228,101</td>
<td>2,912,184</td>
<td>4,140,285</td>
<td>10.4%</td>
</tr>
<tr>
<td>2017 **</td>
<td>1,441,728</td>
<td>3,323,389</td>
<td>4,765,117</td>
<td>15.1%</td>
</tr>
<tr>
<td>2018</td>
<td>1,569,289</td>
<td>3,592,414</td>
<td>5,161,703</td>
<td>8.3%</td>
</tr>
<tr>
<td>2019</td>
<td>1,686,262</td>
<td>3,859,112</td>
<td>5,545,374</td>
<td>7.4%</td>
</tr>
</tbody>
</table>

* Hired Project Manager in February 2016

** 2017 numbers are budgeted not actual, hired QC Manager in Sept 2016
<table>
<thead>
<tr>
<th>FYE</th>
<th>Benefits</th>
<th>Indirect Cost</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>0.419%</td>
<td>1.494%</td>
<td>1.913%</td>
</tr>
<tr>
<td>2016</td>
<td>0.422%</td>
<td>1.651%</td>
<td>2.073%</td>
</tr>
<tr>
<td>2017</td>
<td>0.434%</td>
<td>1.579%</td>
<td>2.013%</td>
</tr>
<tr>
<td>2018</td>
<td>0.437%</td>
<td>1.411%</td>
<td>1.848%</td>
</tr>
<tr>
<td>2019</td>
<td>0.437%</td>
<td>1.411%</td>
<td>1.848%</td>
</tr>
</tbody>
</table>
## Member Contributions

<table>
<thead>
<tr>
<th>FYE</th>
<th>Per Member Agency</th>
<th>Inc/(Dcr) Over Prior Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$339,090</td>
<td>$8,723</td>
<td>2.64%</td>
</tr>
<tr>
<td>2016</td>
<td>269,559</td>
<td>(69,531)</td>
<td>(20.51%)</td>
</tr>
<tr>
<td>2017</td>
<td>287,861</td>
<td>18,302</td>
<td>6.79%</td>
</tr>
<tr>
<td>2018</td>
<td>288,423</td>
<td>562</td>
<td>0.20%</td>
</tr>
<tr>
<td>2019</td>
<td>294,339</td>
<td>5,916</td>
<td>2.05%</td>
</tr>
</tbody>
</table>
## Member Contributions per Agency

<table>
<thead>
<tr>
<th>Activity</th>
<th>FYE 2017</th>
<th>FYE 2018</th>
<th>FYE 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Planning</td>
<td>$70,000</td>
<td>$71,200</td>
<td>$71,200</td>
</tr>
<tr>
<td>USBR Partnership Studies</td>
<td>4,000</td>
<td>4,000</td>
<td>4,000</td>
</tr>
<tr>
<td>Watershed Management (OWOW)</td>
<td>60,000</td>
<td>80,000</td>
<td>85,000</td>
</tr>
<tr>
<td>SA River Fish Conservation</td>
<td>2,000</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>Stormwater Quality Standards TF</td>
<td>10,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>LESJWA Management</td>
<td>2,000</td>
<td>2,000</td>
<td>2,000</td>
</tr>
<tr>
<td>State/Federal Lobbying</td>
<td>49,861</td>
<td>39,223</td>
<td>40,139</td>
</tr>
<tr>
<td>General Fund</td>
<td>90,000</td>
<td>90,000</td>
<td>90,000</td>
</tr>
<tr>
<td><strong>Total Agency Contribution</strong></td>
<td><strong>$287,861</strong></td>
<td><strong>$288,423</strong></td>
<td><strong>$294,339</strong></td>
</tr>
</tbody>
</table>
Staff Recommendation

• Adopt the FYE 2018 and 2019 Budget as presented and direct each member agency to:
  – Notice the consideration of the FYE 2018 and 2019 SAWPA Budget on their next Board of Directors Meeting agenda;
  – Approve by Board Resolution (pursuant to the Joint Powers Authority Agreement) the FYE 2018 and 2019 SAWPA Budget; and
  – Provide SAWPA with a certified copy of the signed Board Resolution.

• Approve the Reserve Transfers presented

• Approve the Brine Line Pipeline Operator position and direct staff to fill the position
Questions?
Proposition 84 Projects
Status Update

May 16, 2017 Commission Meeting

Nicole D. Weideman, PE
Quality Assurance Manager
## Proposition 84 Project Status

<table>
<thead>
<tr>
<th>Round</th>
<th>No. of Proponents</th>
<th>Projects Complete</th>
<th>Grant Amount</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1</td>
<td>13</td>
<td>7</td>
<td>$12M</td>
<td>$260M</td>
</tr>
<tr>
<td>Round 2</td>
<td>18</td>
<td>0</td>
<td>$14.5M</td>
<td>$150M</td>
</tr>
<tr>
<td>Drought Round</td>
<td>9</td>
<td>0</td>
<td>$12M</td>
<td>$23M</td>
</tr>
<tr>
<td>2015 Round</td>
<td>7</td>
<td>0</td>
<td>$61M</td>
<td>$237M</td>
</tr>
</tbody>
</table>
Projected Watershed-Wide Benefits of All Four Rounds of OWOW Prop 84 IRWM Projects

• Reduces water demand by 18,000 AFY representing 36,000 households
• Recharges 180,000 AF of additional imported water
• Produces 18,000 AFY of desalted groundwater
• Removes 29,000 tons of salt from groundwater per year
• Creates 11,000 AFY of additional recycled water
• Captures 44,000 AFY of stormwater for beneficial use
• Restores 3,800 acres of environmental habitat
• Reduces nonpoint source pollution by 29,000 pounds per year
• Reduces flood risk damage by $91 million
• Creates about 11,000 construction related jobs
Round 1 Projects
(August 2011 – December 2017)
# Proposition 84 Round 1
## Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
<th>Add'l Cost Share</th>
<th>Total Project Cost</th>
<th>% Grant Billed</th>
<th>% Construct. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Agreement Administration</td>
<td>SAWPA</td>
<td>$660,004</td>
<td>$0</td>
<td>$0</td>
<td>$660,004</td>
<td>54%</td>
<td>N/A</td>
<td>54%</td>
</tr>
<tr>
<td>GWRS Flow Equalization</td>
<td>OCWD</td>
<td>$1,000,000</td>
<td>$1,180,760</td>
<td>$13,218,920</td>
<td>$15,399,680</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Sludge, Dewatering, Odor Control &amp; Primary Sludge Thickening</td>
<td>OCSD</td>
<td>$1,000,000</td>
<td>$36,638,218</td>
<td>$103,278,005</td>
<td>$140,916,223</td>
<td>100%</td>
<td>94%</td>
<td>93.8%</td>
</tr>
<tr>
<td>Santa Ana Watershed Vireo Monitoring</td>
<td>SAWA</td>
<td>$600,000</td>
<td>$225,994</td>
<td>$43,213</td>
<td>$869,207</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Mill Creek Wetlands</td>
<td>Ontario</td>
<td>$1,000,000</td>
<td>$1,615,000</td>
<td>$15,635,000</td>
<td>$18,250,000</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

1 $13,218,920 in Other State Funds
2 $15,420,000 in Other State Funds

Green – Project on schedule or ahead of schedule
Yellow/Green – Delay experienced, but will finish prior to Grant completion date.
Yellow – Project delay experienced, not on schedule per the Agreement, unsure if project will complete on time.
Orange/Red – Project behind schedule, unsure if project will complete on time, or not enough information known at this time to determine.
# Proposition 84 Round 1
## Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
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<th>Add’l Cost Share</th>
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<th>% Grant Billed</th>
<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cactus Basin</td>
<td>SBCFCD</td>
<td>$1,000,000</td>
<td>$4,427,155 29.96%</td>
<td>$9,350,026</td>
<td>$14,777,181</td>
<td>100%</td>
<td>77%</td>
<td>77%</td>
</tr>
<tr>
<td>Inland Empire Brine Line Rehabilitation / Enhancement</td>
<td>SAWPA</td>
<td>$1,000,000</td>
<td>$698,153 10.07%</td>
<td>$5,234,576</td>
<td>$6,932,729</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Arlington Desalter Interconnection Project</td>
<td>Corona</td>
<td>$400,000</td>
<td>$350,493 26.00%</td>
<td>$597,556</td>
<td>$1,348,049</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Perris II Desalination Facility*</td>
<td>EMWD</td>
<td>$1,000,000</td>
<td>$607,296 26.00%</td>
<td>$728,456</td>
<td>$2,335,752</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Perchlorate Wellhead Treatment System Pipelines</td>
<td>WVWD</td>
<td>$1,000,000</td>
<td>$368,940 26.00%</td>
<td>$50,060</td>
<td>$1,419,000</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

3 $5,234,576 in Other State Funds
4 $9,956,000 in Other State Funds

* Retention not paid yet

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Yellow/Green – Delay experienced, but will finish prior to Grant completion date.
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<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
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<th>Add'l Cost Share</th>
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<th>% Grant Billed</th>
<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chino Creek Wellfield Development Project</td>
<td>WMWD</td>
<td>$ 1,000,000</td>
<td>$ 1,646,091 26.00%</td>
<td>$ 3,685,027</td>
<td>$ 6,331,118</td>
<td>100%</td>
<td>98%</td>
<td>98%</td>
</tr>
<tr>
<td>Impaired Groundwater Recovery</td>
<td>IRWD</td>
<td>$ 1,000,000</td>
<td>$ 20,148,848 53.99%</td>
<td>$ 16,173,122</td>
<td>$ 37,321,970</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Alamitos Barrier Improvement Project</td>
<td>OCWD</td>
<td>$ 1,000,000</td>
<td>$ 650,600 5.61%</td>
<td>$ 9,956,000 4</td>
<td>$ 11,606,600</td>
<td>100%</td>
<td>63%</td>
<td>63%</td>
</tr>
<tr>
<td>Arlington Basin Water Quality Improv Project</td>
<td>WMWD</td>
<td>$ 1,000,000</td>
<td>$ 900,000 33.21%</td>
<td>$ 809,670</td>
<td>$ 2,709,670</td>
<td>16.6%</td>
<td>0%</td>
<td>55%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$ 12,660,004</strong></td>
<td><strong>$ 69,457,548 26.62%</strong></td>
<td><strong>$ 179,419,635</strong></td>
<td><strong>$ 261,537,187</strong></td>
<td><strong>91%</strong></td>
<td><strong>89%</strong></td>
<td></td>
</tr>
</tbody>
</table>

3 $ 5,234,576 in Other State Funds
4 $ 9,956,000 in Other State Funds

Green – Project on schedule or ahead of schedule
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Round 2 Projects
(February 2014 – June 2020)
# Proposition 84 Round 2 Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
<th>Add’l Cost Share</th>
<th>Total Project Cost</th>
<th>% Grant Billed</th>
<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Agreement Administration</td>
<td>SAWPA</td>
<td>$625,310</td>
<td>$0 0.00%</td>
<td>$0</td>
<td>$625,310</td>
<td>33%</td>
<td>N/A</td>
<td>39%</td>
</tr>
<tr>
<td>Perris Desalination Program Well 94</td>
<td>EMWD</td>
<td>$1,000,000</td>
<td>$0 0.00%</td>
<td>$9,238,280</td>
<td>$10,238,280</td>
<td>0%</td>
<td>0%</td>
<td>46%</td>
</tr>
<tr>
<td>Quail Valley Subarea 9 Phase I Sewer System</td>
<td>EMWD</td>
<td>$1,930,000</td>
<td>$2,960,000 37.00%</td>
<td>$3,110,000</td>
<td>$8,000,000</td>
<td>19%</td>
<td>0%</td>
<td>18%</td>
</tr>
<tr>
<td>Forest First</td>
<td>USFS</td>
<td>$1,000,000</td>
<td>$2,055,039 37.00%</td>
<td>$2,499,121</td>
<td>$5,554,160</td>
<td>0%</td>
<td>50%</td>
<td>49%</td>
</tr>
<tr>
<td>Wineville Regional Recycled Wtr Pipeline/GW Recharge System Upgrades</td>
<td>IEUA</td>
<td>$1,000,000</td>
<td>$0 0.00%</td>
<td>$29,500,000 1</td>
<td>$30,500,000</td>
<td>100%</td>
<td>75%</td>
<td>74%</td>
</tr>
</tbody>
</table>

1 $29,500,000 in Other State Funds

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Yellow/Green – Delay experienced, but will finish prior to Grant completion date.
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## Proposition 84 Round 2 Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
<th>Add’l Cost Share</th>
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<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plunge Creek Water Recharge and Habitat Improvement</td>
<td>SBVWCD</td>
<td>$ 500,000</td>
<td>$ 184,731</td>
<td>$ 25,769</td>
<td>$ 710,500</td>
<td>21%</td>
<td>0%</td>
<td>40%</td>
</tr>
<tr>
<td>Prado Basin Sediment Mgmt Demonstration Project</td>
<td>OCWD</td>
<td>$ 750,000</td>
<td>$ 2,910,050</td>
<td>$ 4,204,950</td>
<td>$ 7,865,000</td>
<td>0%</td>
<td>0%</td>
<td>20%</td>
</tr>
<tr>
<td>San Sevaine GW Recharge Basin</td>
<td>IEUA</td>
<td>$ 750,000</td>
<td>$ 925,001</td>
<td>$ 1,184,999</td>
<td>$ 2,860,000</td>
<td>43%</td>
<td>0%</td>
<td>64%</td>
</tr>
<tr>
<td>Corona/Home Gardens Multi-Jurisdictional Wtr Transmission Line</td>
<td>Corona</td>
<td>$ 1,300,000</td>
<td>$ 2,327,494</td>
<td>$ 2,663,031</td>
<td>$ 6,290,525</td>
<td>1%</td>
<td>0%</td>
<td>40%</td>
</tr>
<tr>
<td>Enhanced SW Capture/Recharge Along the SAR</td>
<td>SBVMWD</td>
<td>$ 1,000,000</td>
<td>$ 11,581,000</td>
<td>$ 18,719,000</td>
<td>$ 31,300,000</td>
<td>0%</td>
<td>0%</td>
<td>28%</td>
</tr>
</tbody>
</table>
## Proposition 84 Round 2
Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
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<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional Residential Landscape Retrofit</td>
<td>IEUA</td>
<td>$ 500,000</td>
<td>$ 370,000 37.00%</td>
<td>$ 130,000</td>
<td>$ 1,000,000</td>
<td>66%</td>
<td>N/A</td>
<td>95%</td>
</tr>
<tr>
<td>Canyon Lake Hybrid Treatment Process</td>
<td>LESJWA</td>
<td>$ 500,000</td>
<td>$ 327,635 37.00%</td>
<td>$ 57,865</td>
<td>$ 885,500</td>
<td>62%</td>
<td>100%</td>
<td>98%</td>
</tr>
<tr>
<td>Customer Handbook to Using Water Efficiently</td>
<td>WMWD</td>
<td>$ 120,000</td>
<td>$ 42,000 25.93%</td>
<td>$ 0</td>
<td>$ 162,000</td>
<td>0%</td>
<td>N/A*</td>
<td>75%</td>
</tr>
<tr>
<td>Lower Day Basin</td>
<td>IEUA</td>
<td>$ 750,000</td>
<td>$ 917,599 37.00%</td>
<td>$ 812,401</td>
<td>$ 2,480,000</td>
<td>0%</td>
<td>0%</td>
<td>50%</td>
</tr>
<tr>
<td>CII Performance Based WUE Program</td>
<td>MWDOC</td>
<td>$ 500,000</td>
<td>$ 898,179 37.00%</td>
<td>$ 1,029,333</td>
<td>$ 2,427,512</td>
<td>100%</td>
<td>N/A*</td>
<td>42%</td>
</tr>
</tbody>
</table>

*Project does not include construction, but rather implementation of a plan.*

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<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peters Canyon Channel Water Capture and Reuse Pipeline</td>
<td>Irvine</td>
<td>$ 1,000,000</td>
<td>$ 3,211,086 37.00%</td>
<td>$ 4,467,523</td>
<td>$ 8,678,609</td>
<td>100%</td>
<td>100%</td>
<td>88%</td>
</tr>
<tr>
<td>Soboba Band of Luiseno Indians Wastewater Project</td>
<td>Soboba</td>
<td>$ 150,000</td>
<td>$ 53,000 26.11%</td>
<td>$ 0</td>
<td>$ 203,000</td>
<td>0%</td>
<td>N/A*</td>
<td>95%</td>
</tr>
<tr>
<td>Recycled Water Project Phase I</td>
<td>Riverside</td>
<td>$ 1,000,000</td>
<td>$ 8,030,000 37.00%</td>
<td>$ 12,670,000</td>
<td>$ 21,700,000</td>
<td>0%</td>
<td>0%</td>
<td>10%</td>
</tr>
<tr>
<td>Wilson III Basins Project and Wilson Basins/Spreading Grounds</td>
<td>Yucaipa</td>
<td>$ 750,000</td>
<td>$ 4,825,807 37.00%</td>
<td>$ 7,466,914</td>
<td>$ 13,042,721</td>
<td>0%</td>
<td>0%</td>
<td>30%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$ 15,125,310</td>
<td>$ 40,151,571 26.67%</td>
<td>$ 95,279,236</td>
<td>$ 151,178,427</td>
<td>29%</td>
<td></td>
<td>53%</td>
</tr>
</tbody>
</table>

*Project does not include construction, but rather implementation of a plan.

Green – Project on schedule or ahead of schedule
Yellow/Green – Delay experienced, but will finish prior to Grant completion date.
Yellow – Project delay experienced, not on schedule per the Agreement, unsure if project will complete on time.
Orange/Red – Project behind schedule, unsure if project will complete on time, or not enough information known at this time to determine.
Drought Round Projects

(January 2014 – June 2018)
## Proposition 84 Drought Round Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
<th>Add’l Cost Share</th>
<th>Total Project Cost</th>
<th>% Grant Billed</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Agreement Administration</td>
<td>SAWPA</td>
<td>$625,000</td>
<td>$0</td>
<td>$0</td>
<td>$625,000</td>
<td>47%</td>
<td>52%</td>
</tr>
<tr>
<td>Project Agreement 22 Committee Admin</td>
<td>SAWPA</td>
<td>$300,000</td>
<td>$0</td>
<td>$0</td>
<td>$300,000</td>
<td>65%</td>
<td>71%</td>
</tr>
<tr>
<td>Conserv. Based Report Tools/Rate Structure</td>
<td>SAWPA</td>
<td>$6,662,610</td>
<td>$0</td>
<td>$0</td>
<td>$6,662,610</td>
<td>40%</td>
<td>40%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit SARW</td>
<td>EMWD</td>
<td>$906,800</td>
<td>$1,212,770</td>
<td>$600,830</td>
<td>$2,720,400</td>
<td>2%</td>
<td>58%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>EMWD</td>
<td>$420,000</td>
<td>$561,715</td>
<td>$278,285</td>
<td>$1,260,000</td>
<td>2%</td>
<td>58%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>IEUA</td>
<td>$807,564</td>
<td>$1,080,050</td>
<td>$535,077</td>
<td>$2,422,691</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>OCWD</td>
<td>$880,894</td>
<td>$1,178,123</td>
<td>$583,666</td>
<td>$2,642,683</td>
<td>0.27%</td>
<td>57%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>WMWD</td>
<td>$851,243</td>
<td>$1,138,467</td>
<td>$564,019</td>
<td>$2,553,729</td>
<td>52%</td>
<td>88%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>SBVMWD</td>
<td>$828,499</td>
<td>$1,108,049</td>
<td>$548,949</td>
<td>$2,485,497</td>
<td>0%</td>
<td>35%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>WMWD</td>
<td>$52,500</td>
<td>$70,214</td>
<td>$34,786</td>
<td>$157,500</td>
<td>47%</td>
<td>88%</td>
</tr>
<tr>
<td>High Visibility Turf Removal &amp; Retrofit USMW</td>
<td>RCWD</td>
<td>$525,000</td>
<td>$702,145</td>
<td>$447,855</td>
<td>$1,675,000</td>
<td>99%</td>
<td>99%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$12,860,110</td>
<td>$7,051,533</td>
<td>$3,593,467</td>
<td>$23,505,110</td>
<td>36%</td>
<td>68%</td>
</tr>
</tbody>
</table>

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2015 Round Projects
(January 2014 – December 2021)
## Proposition 84 2015 Round Project Status Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Agency</th>
<th>Grant Amount</th>
<th>Required Funding Match</th>
<th>Add'l Cost Share</th>
<th>Total Project Cost</th>
<th>% Grant Billed</th>
<th>% Constr. Complete</th>
<th>% Project Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Agreement Admin.</td>
<td>SAWPA</td>
<td>$3,213,384</td>
<td>$0 0.00%</td>
<td>$0</td>
<td>$3,213,384</td>
<td>0%</td>
<td>N/A</td>
<td>0%</td>
</tr>
<tr>
<td>Newhope – Placentia Trunk Sewer Replacement Project</td>
<td>OCSD</td>
<td>$1,000,000</td>
<td>$30,000,000 28.60%</td>
<td>$73,890,000</td>
<td>$104,890,000</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Integrated Watershed Protection Program</td>
<td>RCFCWCD</td>
<td>$5,054,302</td>
<td>$9,060,000 29.71%</td>
<td>$16,379,698</td>
<td>$30,494,000</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>SARCCUP Member Agencies</td>
<td>Member Agencies</td>
<td>$55,000,000</td>
<td>$30,500,000 30.12%</td>
<td>$15,772,899</td>
<td>$101,272,899</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$64,267,686</strong></td>
<td><strong>$69,560,000 29.00%</strong></td>
<td><strong>$106,042,597</strong></td>
<td><strong>$239,870,283</strong></td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

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A Closer Look

Round 1

• Santa Ana Watershed Vireo Monitoring (SAWA)
  (To be presented on at June 6th Commission Mtg.)

Round 2

• Forest First: Increase Stormwater Capture and Decrease Sediment Loading (USFS)
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)

Phase 1 – Bluff Mesa

Phase 2 – 1N09

Seven Oaks Dam

Big Bear Lake

N.D. Weideman, PE
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)
Feasibility - Increase Stormwater Capture & Decrease Sediment Loading (USFS)

Treatment Level 1 –
• Main fuel break
• Approximately 85 acres
• Located on top of the ridge and follows existing roads and trails

Treatment Level 2 –
• Outer edges of main fuel break
• Along several internal roads as secondary fire-fighting zones,
• Escape routes for both firefighters and residents

N.D. Weideman, PE
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)

Treatment Level 3 –
- Threat zones outside of fuel breaks
- No special concerns for sensitive biological or cultural resources
- Reduce potential for crown fires

Treatment Level 4 –
- Threatened, endangered, and sensitive plants
- California spotted owl, willow flycatcher, mountain yellow-legged frog, snakes, bats, and the Bald Eagle
- Limited treatment
**Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)**

<table>
<thead>
<tr>
<th>TL</th>
<th>Acres</th>
<th>Treatment Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>85</td>
<td>Fuel Break, intensive</td>
</tr>
<tr>
<td>2</td>
<td>245</td>
<td>Fuel Break, less intensive</td>
</tr>
<tr>
<td>3a</td>
<td>486</td>
<td>Forest Health, Montane Chaparral</td>
</tr>
<tr>
<td>3b</td>
<td>372</td>
<td>Forest Health, Montane Conifer</td>
</tr>
<tr>
<td>3c</td>
<td>17</td>
<td>Plantation Thinning, 20-40 yrs old pine</td>
</tr>
<tr>
<td>4a</td>
<td>65</td>
<td>Sensitive Areas; Spotted Owl/Bald Eagle</td>
</tr>
<tr>
<td>4b</td>
<td>303</td>
<td>Sensitive Areas; Spotted Owl habitat</td>
</tr>
<tr>
<td>4c</td>
<td>26</td>
<td>Sensitive Areas; Montane Meadows</td>
</tr>
</tbody>
</table>

N.D. Weideman, PE
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)

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N.D. Weideman, PE
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)

N.D. Weideman, PE
Forest First: Increase Stormwater Capture & Decrease Sediment Loading (USFS)

- Description: Reduce the fire risk and improve forest health in the Bluff Mesa and Santa Ana Unit 3 areas.
- Overall Percent Complete: 49%
- Estimated Completion: December 2018
- Benefits: Sediment reduction, water quality, improved resiliency of the forest, and limit fuel loading.
Thank You