Proposed 2014 Water Supply Impact Fee

Darren Thompson
Director, Water Resources

Sam Mills
Director, Infrastructure Planning

December 5, 2013
Outline

• SAWS Planned Water Resources

• Impact Fee Calculation

• Disclaimers
SAWS Planned Water Resources

Regional Carrizo

- Regional Partnership with Schertz-Seguin Local Government Corporation (SSLGC)
- SAWS Permit 11,688 AFY
- Excess from SSLGC and Gonzales Water Supply Corporation 5,512 AFY
- Total **17,200 AFY** (up to amount)
- Delivery began November 12
SAWS Planned Water Resources

Regional Carrizo

- Mutual Regional Water Supply Contract
  - Gives SAWS ability to purchase SSLGC surplus water
  - Provides SSLGC an emergency supply
  - *Reduces cost* for all parties

- **$124.1 million** estimated pre-2023 CIP
  - $124.1 million pre-2014 CIP
  - $0 2014-2023 CIP

- **13,138 AFY supply in 2023**, or **37,443 EDUs**

- Capital Cost = $3,316 per EDU
Planned Supplies

Brackish Groundwater Desalination

- Three-Phase Program
  - Phase 1: 13,440 ac-ft/yr (2016)
  - Phase 2: 13,440 ac-ft/yr (2021)
  - Phase 3: 6,720 ac-ft/yr (2026)
  - Total: 33,600 ac-ft/yr

- $280.5 million estimated pre-2023 CIP
  - $188.4 million pre-2014 CIP
  - $92.1 million 2014-2023 CIP

- 24,420 AFY supply in 2023, or 69,597 EDUs

- Capital Cost = $4,031 per EDU
SAWS Planned Water Resources

Expanded Carrizo

• Works in cooperation with the ASR Local Carrizo off-site wells

• Will utilize property owned by SAWS

• **$29.4 million** estimated pre-2023 CIP
  – $0 million pre-2014 CIP
  – $29.4 million 2014-2023 CIP

• 14,000 AFY supply in 2023, or **39,900 EDUs**

• Capital Cost = $737 per EDU
SAWS Planned Water Resources

Water Resources Integration Pipeline (WRIP)

- 45-mile integration pipeline
  - Phase I complete by 2016
  - Phase II complete by 2022

- **$235.7 million** estimated pre-2023 CIP
  - $29.2 million pre-2014 CIP
  - $206.5 million 2014-2023 CIP

- Provides flexibility for transport of existing and future Twin Oaks supplies

- Cost prorated between ASR, desalination, local & expanded Carrizo
## Proposed 2014 Water Supply Impact Fee Calculation

### 2014 to 2023 Water Supply Impact Fee Study

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acre</td>
<td>Feet</td>
<td>MGD</td>
<td>EDUs</td>
<td>% Capacity</td>
<td>Share</td>
<td>EDUs</td>
<td>% Capacity</td>
</tr>
<tr>
<td><strong>Existing Projects</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Existing Edwards</td>
<td>$ 234,035,444</td>
<td>$ 234,035,444</td>
<td>215,477</td>
<td>192.4</td>
<td>614,109</td>
<td>97.5%</td>
<td>$ 226,257,902</td>
<td>15,160</td>
</tr>
<tr>
<td>Local Carrizo</td>
<td>$ 14,823,566</td>
<td>$ -</td>
<td>7,400</td>
<td>6.6</td>
<td>21,090</td>
<td>97.5%</td>
<td>$ 14,457,623</td>
<td>521</td>
</tr>
<tr>
<td>Trinity-WECO, Olivar Ranch, BSR</td>
<td>$ 12,488,536</td>
<td>$ -</td>
<td>6,760</td>
<td>6.0</td>
<td>19,266</td>
<td>97.5%</td>
<td>$ 12,180,236</td>
<td>476</td>
</tr>
<tr>
<td>GBRA-Western Canyon</td>
<td>$ 14,179,261</td>
<td>$ -</td>
<td>5,470</td>
<td>5.6</td>
<td>18,668</td>
<td>97.5%</td>
<td>$ 13,829,223</td>
<td>666</td>
</tr>
<tr>
<td>CRWA</td>
<td>$ -</td>
<td>$ -</td>
<td>6,550</td>
<td>5.8</td>
<td>15,248</td>
<td>97.5%</td>
<td>$ 14,238,360</td>
<td>476</td>
</tr>
<tr>
<td>Medina System Surface Water</td>
<td>$ 18,700,000</td>
<td>$ -</td>
<td>5,330</td>
<td>4.6</td>
<td>15,248</td>
<td>97.5%</td>
<td>$ 14,238,360</td>
<td>376</td>
</tr>
<tr>
<td><strong>Total Existing Projects</strong></td>
<td>$ 294,226,807</td>
<td>$ -</td>
<td>251,007</td>
<td>224.1</td>
<td>715,371</td>
<td>97.5%</td>
<td>$ 286,963,344</td>
<td>17,660</td>
</tr>
<tr>
<td><strong>2014 to 2023 Projects</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average New Edwards</td>
<td>$ 44,121,763</td>
<td>$ 44,121,763</td>
<td>7,106</td>
<td>6.3</td>
<td>20,253</td>
<td>0%</td>
<td>$ 10,773</td>
<td>9,481</td>
</tr>
<tr>
<td>Regional Carrizo/SSLGC Delivery</td>
<td>$ 124,146,817</td>
<td>$ 124,146,817</td>
<td>13,138</td>
<td>11.7</td>
<td>37,443</td>
<td>0%</td>
<td>$ 19,916</td>
<td>17,527</td>
</tr>
<tr>
<td>Desalination 2015 &amp; 2021</td>
<td>$ 188,433,050</td>
<td>$ 92,102,641</td>
<td>290,535,691</td>
<td>24,420</td>
<td>21.8</td>
<td>69,597</td>
<td>0%</td>
<td>$ 37,018</td>
</tr>
<tr>
<td>Expanded Carrizo 2017 &amp; 2022</td>
<td>$ -</td>
<td>$ 29,392,069</td>
<td>32,984,138</td>
<td>14,000</td>
<td>12.5</td>
<td>39,900</td>
<td>0%</td>
<td>$ 21,223</td>
</tr>
<tr>
<td>Integration Pipeline</td>
<td>$ 29,236,925</td>
<td>$ 206,458,843</td>
<td>235,695,768</td>
<td>0.0</td>
<td>-</td>
<td>-</td>
<td>$ 91,155,477</td>
<td>37,018</td>
</tr>
<tr>
<td><strong>Total 2014 to 2023 Projects</strong></td>
<td>$ 341,816,791</td>
<td>$ 372,075,316</td>
<td>713,892,107</td>
<td>51,558</td>
<td>46</td>
<td>146,940</td>
<td>0%</td>
<td>$ 91,155,477</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$ 636,043,596</td>
<td>$ 372,075,316</td>
</tr>
</tbody>
</table>

### Assumptions:
1. 1 EDU = 313 gallons/day (gpd)
2. Conservation programming @ 135 gpcd * 2.3 people/EDU = 310.5 gpd/edu
3. 1 acre foot = 2.85 EDUs
4. Integration pipeline 75MGD capacity allocated as: ASR, desalination, local & expanded Carrizo.
5. The total pipeline cost is prorated based on 22.4 MGD Edwards (ASR), 6.6 MGD Local Carrizo, 21.8 MGD Desalination, 12.5 MGD expanded Carrizo, plus 11.7 MGD for remaining phases of desalination & Expanded Carrizo for post 2023 customers.
6. Existing supplies based on average estimated from 2014 to 2023 assuming drought of record during period.
Disclaimers

• Capital figures presented here represent all capital costs prior to 2023. Some projects have capital costs after 2023, which is why capital figures might be different from previous water supply presentations, which included total capital costs for entire project.
Proposed 2014 Water Supply Impact Fee

Darren Thompson
Director, Water Resources

Sam Mills
Director, Infrastructure Planning

December 5, 2013
Regional Water Supply Project

Integration

• Map
• Calculations
SAWS Current Water Resources

Edwards Aquifer

Proposed 2014 Water Supply Impact Fee
SAWS Current Water Resources

Twin Oaks Facility

• ASR
  • 3rd-Largest in Nation
  • “Savings account for a sunny day”
  • Currently ~80,000 acre-feet (AF) in storage, or six months of supply
• Local Carrizo
  • Additional 7,400 acre-feet per year (AFY)
SAWS Current Water Resources

Trinity Aquifer

- WECO Stein Tract/Rogers Tract
- DSP Trinity Aquifer wells

- Oliver Ranch: ~3,000 AFY
- BSR: ~500 AFY
- First Non-Edwards Supply for SAWS
SAWS Current Water Resources

Western Canyon

• Base 4,000 AFY (up to 11,000 AFY)
• 2005 – 2007
• First surface-water supply for SAWS
• Supplies north San Antonio
• Contract currently expires in 2037
SAWS Current Water Resources

Canyon Regional Water Authority (CRWA)

- Lake Dunlap – 4,000 AFY*
- Wells Ranch – 2,800 AFY (Carrizo)
- Total – 6,800 AFY*

Supply Assumptions

- *500 AFY lease to Cibolo through 2018
- Lake Dunlap supply may go away in 2024 as per agreement with Guadalupe-Blanco River Authority
- Agreement with Canyon Regional Water Authority concerning Wells Ranch expires in 2047, extendable
SAWS Current Water Resources

Medina Lake

- Inherited from Bexar Met
- SAWS Lease from BMA = 19,974 AFY
- SAWS Run-of-River Rights = ~9,000 AFY
- SAWS Treatment Capacity = ~13,000 AFY