### Cost Estimate Summary

**Water Supply Project Option**

**September 2018 Prices**

**Wichita Falls - Lake Ringgold**

*Cost based on ENR CCI 11170.28 for September 2018 and a PPI of 201.9 for September 2018*

<table>
<thead>
<tr>
<th>Item</th>
<th>Estimated Costs for Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPITAL COST</strong></td>
<td></td>
</tr>
<tr>
<td>Dam and Reservoir (Conservation Pool, 17,280 acres)</td>
<td>$72,731,000</td>
</tr>
<tr>
<td>Transmission Pipeline (48 in dia., 29.7 miles)</td>
<td>$59,057,000</td>
</tr>
<tr>
<td>Intake Pump Stations (43 MGD)</td>
<td>$40,481,000</td>
</tr>
<tr>
<td>Transmission Pump Station(s) &amp; Storage Tank(s)</td>
<td>$0</td>
</tr>
<tr>
<td>Pipeline Crossings</td>
<td>$16,372,000</td>
</tr>
<tr>
<td>Integration, Relocations, &amp; Other</td>
<td>$7,911,000</td>
</tr>
<tr>
<td><strong>TOTAL COST OF FACILITIES</strong></td>
<td>$196,552,000</td>
</tr>
<tr>
<td>Engineering and Feasibility Studies, Legal Assistance, Financing, Bond Counsel, and Contingencies (30% for pipes &amp; 35% for all other facilities)</td>
<td>$65,022,000</td>
</tr>
<tr>
<td>Environmental &amp; Archaeology Studies and Mitigation</td>
<td>$86,683,000</td>
</tr>
<tr>
<td>Land Acquisition and Surveying (17,486 acres)</td>
<td>$41,076,000</td>
</tr>
<tr>
<td>Interest During Construction (3% for 5 years with a 0.5% ROI)</td>
<td>$53,534,000</td>
</tr>
<tr>
<td><strong>TOTAL COST OF PROJECT</strong></td>
<td>$442,867,000</td>
</tr>
<tr>
<td><strong>ANNUAL COST</strong></td>
<td></td>
</tr>
<tr>
<td>Debt Service (3.5 percent, 20 years)</td>
<td>$13,175,000</td>
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<tr>
<td>Reservoir Debt Service (3.5 percent, 40 years)</td>
<td>$11,970,000</td>
</tr>
<tr>
<td>Operation and Maintenance</td>
<td></td>
</tr>
<tr>
<td>Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)</td>
<td>$833,000</td>
</tr>
<tr>
<td>Intakes and Pump Stations (2.5% of Cost of Facilities)</td>
<td>$1,012,000</td>
</tr>
<tr>
<td>Dam and Reservoir (1.5% of Cost of Facilities)</td>
<td>$1,091,000</td>
</tr>
<tr>
<td>Water Treatment Plant</td>
<td>$5,269,000</td>
</tr>
<tr>
<td>Pumping Energy Costs (986,6677 kW-hr @ 0.08 $/kW-hr)</td>
<td>$789,000</td>
</tr>
<tr>
<td><strong>TOTAL ANNUAL COST</strong></td>
<td>$34,139,000</td>
</tr>
</tbody>
</table>

**Available Project Yield (acft/yr)** 23,450

**Annual Cost of Water ($ per acft), based on PF=2** $1,456

**Annual Cost of Water After Debt Service ($ per acft), based on PF=2** $384

**Annual Cost of Water ($ per 1,000 gallons), based on PF=2** $4.47

**Annual Cost of Water After Debt Service ($ per 1,000 gallons), based on PF=2** $1.18

*Note: One or more cost element has been calculated externally*

Jeremy Rice 7/1/2019