WRMWSD MA PLAN OVERVIEW

- Prepared by WRMWSD
- Covers “WRMWSD Management Area” and some White Lands
- Developed to meet SGMA regulatory requirements while reflecting local needs and preserving local control over water resources
- Process included active coordination and stakeholder engagement
- Overlap issues coordinated with AEWSD

BASIN AND LOCAL WATER BUDGETS HAVE BEEN COORDINATED AND WILL BE REFINED AFTER 2020

- Basin-wide Checkbook is a coordinated water budget approach for the entire Kern Subbasin that documents GSA-specific contributions to groundwater recharge
  - Total Supply: 187,737 AFY
  - Total Demand: 202,402 AFY
  - Balance/Deficit: -14,665 AFY
- WRMWSD used conservative ("worst case") estimate of -21,429 AFY as basis for P/MAAs and meeting MOs/MTs
- All water budgets have uncertainty and will be refined as part of GSP implementation
PROJECTS AND MANAGEMENT ACTIONS (P/MAS) DESIGNED TO ADDRESS PROJECTED DEFICIT

- P/MAs are designed to close water budget gap (-21,429 AFY based on 2030 climate change scenario)
  - Supply Augmentation
  - Demand Reduction
- Plan B: P/MAs will be accelerated if water level MTs are reached in 20% of Representative Monitoring Sites (RMS).
- Undesirable Result is defined as MTs are exceeded in 40% or more of the RMS.

![Projected Shortfall = 21,429 AFY](image)

2040 “Glide Path” for P/MA Implementation

PROJECTED WATER LEVELS INDICATE NO SMC EXCEEDANCES

- Preliminary future model results including P/MAs suggest that Management Area will not have Undesirable Results at current monitoring well locations

![Projected Water Levels Indicate No SMC Exceedances](image)

Note that RMW-016 and RMW-103 are AEWSO wells

Source: TODD, email via KGA, 12/1/2019
SUSTAINABLE MANAGEMENT CRITERIA

- The MOs/MTs are defined to allow for a gradual balancing of the budget through supply augmentation and demand reduction
- All SMCs have been closely coordinated with Basin GSAs and stakeholders

<table>
<thead>
<tr>
<th>Sustainability Indicator</th>
<th>Site Type</th>
<th>Site Count</th>
<th>SMC Consideration</th>
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</thead>
<tbody>
<tr>
<td>Chronic Lowering of Groundwater Levels</td>
<td>Well</td>
<td>14</td>
<td>Historical lows, recent 10-year groundwater level trends, temporal variability, and well construction</td>
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<tr>
<td>Reduction of Groundwater Storage</td>
<td>Well</td>
<td>14</td>
<td>Groundwater levels will be used as a proxy</td>
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<tr>
<td>Degraded Water Quality</td>
<td>Well</td>
<td>9</td>
<td>No unique MTs are set for this Sustainability Indicator</td>
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<tr>
<td>Land Subsidence</td>
<td>Stationary GPS</td>
<td>40</td>
<td>Max rate of subsidence observed from 1975-2019</td>
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</tbody>
</table>

WRMWSD CONDUCTED EXTENSIVE STAKEHOLDER OUTREACH

- Broad distribution of letters, surveys, email updates, and flyers
- Direct outreach to Landowners and Well owners
- Stakeholder Workshops
- Active coordination with KGA members and other Basin GSAs

<table>
<thead>
<tr>
<th>Public Meeting Type</th>
<th>Number of Meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>KGA GSA Board Meetings</td>
<td>29</td>
</tr>
<tr>
<td>KGA GSA SGMA Stakeholder Workshops, Meetings, and Open Houses</td>
<td>29</td>
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<tr>
<td>WRMWSD Board Meetings</td>
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<tr>
<td>WRMWSD Stakeholder Workshops</td>
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<tr>
<td>KGA Miscellaneous Meeting</td>
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<tr>
<td><strong>Total Meetings to Date</strong></td>
<td><strong>196</strong></td>
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</tbody>
</table>
Comments Received
1. Multiple Landowners on 27 November 2019
2. Chevron (email to WRMWSD on 19 November 2019)

* Comments received by KGA were reviewed for local applicability.

WRMWSD Response to Comments
- In-line Comment Log in MA Plan
- Detailed comments response in Appendix
- Limited in-line changes to MA Plan; record included in Appendix

Additional Revisions:
- Added additional discussion of water budget methodologies, including Checkbook, and incorporated the updated model results.