The Sustainable Groundwater Management Act

• Passed in 2014, effective January 1, 2015
• Required creation of a Groundwater Sustainability Agency (GSA) by July 1, 2017
• Development of a Groundwater Sustainability Plan (GSP) by January 1, 2022
• Achieve Sustainable Management by 2042
• Failure results in state intervention
What Do We Have to Do?

• Partner with other GSAs in the basin
• Engage with basin stakeholders (nasbgroundwater.org)
• Fill some data gaps
  • New monitoring wells
  • Collect water quality information
  • Collect surface water data
• Develop some tools
  • Regional database system
  • Regional groundwater model (water budget, sustainable yield, pumping estimates)
• Prepare a GSP (and then implement it)
## Total Budget

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Grant</td>
<td>$994,276</td>
</tr>
<tr>
<td>Local In-Kind Contribution/Past Expenses</td>
<td>$325,985</td>
</tr>
<tr>
<td>Direct Funding Contributions</td>
<td>$726,402</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2,046,663</strong></td>
</tr>
</tbody>
</table>

## Local Funding Share

<table>
<thead>
<tr>
<th>GSA</th>
<th>Percent of Area</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGA</td>
<td>36.2</td>
<td>$262,682</td>
</tr>
<tr>
<td>West Placer</td>
<td>33.4</td>
<td>$242,980</td>
</tr>
<tr>
<td>South Sutter WD</td>
<td>19.4</td>
<td>$141,021</td>
</tr>
<tr>
<td>RD 1001 w/ PG-VMWC</td>
<td>5.2</td>
<td>$37,525</td>
</tr>
<tr>
<td>Sutter County w/NCMWC</td>
<td>5.8</td>
<td>$42,194</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100</td>
<td><strong>$726,402</strong></td>
</tr>
</tbody>
</table>
What is in a GSP?

• They will include:
  • Description of the GSAs and a funding plan for future implementation of GSP
  • Description of Past and Current Conditions
  • Projected future (50 years) – Based upon planned development, agricultural projections, and future climate conditions
  • Sustainable Management Criteria (SMC)
  • Description of monitoring network used to evaluate SMC
  • Projects and Management Actions
What are the SMC Indicators?

- Lowering of GW Levels
- Reduction of GW Storage
- Seawater Intrusion
- Water Quality Degradation
- Land Subsidence
- Depletion of Interconnected Streams
Sustainable Management Criteria Overview

- SMC are determined locally
- SMC Include:
  - Sustainability Goal (Basin-wide)
  - Undesirable Results (Basin-wide)
  - Minimum Thresholds (Site-Specific)
  - Measurable Objectives (20 yrs, Site-Specific)
  - Interim Milestones (5 yrs, Site-Specific)
- DWR expects these to be specific and quantifiable

Source: DWR
An example of an existing SMC approach at SGA
Subsidence due to Groundwater Withdrawal
Historic Local Subsidence Information
Recent Subsidence Information

Sutter Extensometer
Considerations when establishing land subsidence thresholds:

- Is aquifer material susceptible to subsidence?
- Current, projected and historical low groundwater levels
- Historic rate and extent of subsidence
- Susceptible infrastructure and land uses
- Adjacent basin thresholds

Source: DWR SMC BMP
Key Points for Engagement

- Start development of SMCs – late summer 2020
- Draft of SMCs – winter of 2021
- Public Draft of GSP – summer of 2021