



**EASTERN SAN JOAQUIN
GROUNDWATER AUTHORITY**

**GWA Advisory Committee
June 12, 2019**

Agenda



1. Approval of Minutes of May 8, 2019
2. Bundle Review & GSP Draft Chapter Release Process
3. Implementation Phase
4. Funding Sources
5. Inter-basin Coordination
6. Fourth Informational Meeting – July 18, 5-8 PM, Ag. Center
7. County Coordination Process/Plan Coordinator
8. July Agenda Items and Meeting Location Change



**Bundle Review & GSP Draft Chapter Release
Process**

Important Deadlines



- Bundle 2 and 3 are available for review on website. Comments due back July 1
- Full public draft (all chapters) will be released for public comment July 10 – Aug 25. Comments are due Aug 25. The fourth Informational Meeting will be held July 18.

Process for Adopting



- Finalize GSP after public comments
- JPA recommendation – Nov. 13
- GSAs adopt – Individual GSAs adopt Final Draft GSP **Nov. 5 – Jan. 1**
- JPA adopts – Jan. 8

- Notice of Intent to Adopt (NOI) – Required 90 days prior to adoption. Woodard & Curran to draft template NOI.
 - Option 1: One on behalf of all agencies; GSAs provide adoption dates
 - Option 2: Form letter with each agency responsible for their own NOI

Timeline Countdown



- 28 days until Public draft GSP release is scheduled (July 10, 2019)
- 233 days until GSP submittal deadline
- (Jan 31, 2020)

Comment Received on Draft GSP



- Comment on groundwater level minimum thresholds:

In areas where either the 1992 or 2015-16 historic groundwater level is above 0 msl and has no previous issues with undesirable results, the minimum threshold is 100 feet below the ground surface elevation (minimum annular seal depth for domestic wells per SJC Well Drilling standards) of the representative monitoring well depth.

- Consultant recommendation: Consider minimum DTW consistent with well construction requirements.
- Would require Board approval to change minimum threshold definition.

Comment Received on Draft GSP



- Use of municipal wells in place of domestic wells in defining minimum thresholds for groundwater levels
- The minimum thresholds for chronic lowering of groundwater levels are established as the shallower of 1992 and 2015 2016 historical groundwater levels with a buffer of 100 percent of historical range applied, or the 10th percentile domestic or **municipal well** total depth (**as appropriate**), whichever is shallower at each representative monitoring well site.

Comment Received on Draft GSP



Proposed change to measurable objective for seawater intrusion

- Previous: use the current condition, using 2015-2018 average chloride concentrations.
- Consultant recommendation: **Isocontour set at 500 m/L chloride (same as SMCL for chloride)** for consistency in methodology, using the same isocontour line location as for minimum thresholds (between the most westerly and next westerly monitoring points). Min. threshold is 2,000 mg/L; trigger is set at 1,000 mg/L.
- Would require Board approval to change minimum threshold definition



Implementation Phase and Funding Next Steps

JPA Agreement



- JPA agreement set up with primary focus of GSP preparation.
- JPA agreement lacks specificity for implementation elements.
 - Approach 1: Use as is for implementation
 - Approach 2: Amendment with clarifying language
 - Approach 3: Entirely new agreement

The JPA agreement is available on the GWA website under the 'About Us' tab.

Implementation Elements and Initial Planning-Level Estimates



- Monitoring and Reporting
 - 2020 Annual Report (due April 2020)
 - DMS Updates
- Data Collection and Analysis
- Administrative Actions
- 5-year Update
- Public Outreach and Website Maintenance
- Grant Writing

Implementation Elements and Initial Planning-Level Estimates



- Discussion: What are expectations for implementation?
- A range of options is presented for each implementation item

Monitoring



- At the last meeting, the Board approved a monitoring schedule that included quarterly monitoring of 19 GWL representative monitoring wells with clarification of costs to be provided.
- Nested wells changed from 21 to 16 based on available data (143 to 138 total).
- Staff recommended groundwater level monitoring to stay consistent with semi-annual CASGEM monitoring (move from quarterly to semi-annual for cost savings).
- **Action Recommendation Needed:** Confirm groundwater level monitoring stay quarterly or change to semi-annual based on staff recommendation.

Monitoring and Reporting



Well Type	#	Monitoring Network	Constituent Monitored		Proposed Frequency
			Elevation	Water Quality	
Dedicated Level Threshold	19	Representative Monitoring	X		Semi-Annually
Dedicated Groundwater Quality Threshold	10	Representative Monitoring	X	X	Semi-Annually
CASGEM Wells (Official)	76	Broad	X		Semi-Annually
Nested &/or Clustered Wells	16	Broad	X	X	Semi-Annually
TSS Wells + 10 New Wells (Planned)	12	Broad	X	X	Semi-Annually
Additional local wells in water quality network	5	Broad	X	X	Semi-Annually

**Parameters: TDS, Arsenic, Cations/Anions;
Field: EC, Temp, pH**

Monitoring and Reporting



- Total wells for water levels: 138, water quality: 43
- Assumptions:
 - Field crew - \$50k-\$60k
 - Equipment rental – truck, level meter, pumps (\$7-10k/yr)
 - Sample cost - \$12-\$15k
- Annual Monitoring Total: \$70-\$85k

Current Monitoring & Reporting - CASGEM



- County conducts monitoring (CASGEM +)
- Groundwater levels only, semi-annual
- Current program costs for monitoring & reporting (\$50-\$70k)
- Monitoring post-GSP – Coordinate between new GSP monitoring and existing monitoring program

Monitoring and Reporting – Annual Reports and DMS



Annual Reports (Annual)

- DWR requires annual reporting starting April 1, 2020 for adaptive management
- Provide monitoring and total groundwater use data to DWR
- Compare monitoring data to sustainable management criteria
- Cost range estimate: \$50k - \$75k

DMS Updates (Annual)

- Update and maintain Data Management System (annual)
- First year including refinements: \$30-50k, following years \$20k

Data Collection and Analysis



- One time costs
 - Mokelumne River Loss Study project (\$100k)
 - Model refinements (\$250k)
 - Historical calibration
 - Scenarios
 - SW-GW refinement monitoring
 - Additional Wells if needed
- Annual:
 - Review of water quality data in Broad network (\$20k)

Administrative Actions (Annual)



- Governance structure
- Regular meeting structure
- Coordinate on specific studies
- Track and evaluate implementation and sustainability conditions
- Assess benefit to subbasin

- Cost range estimate: \$70k – \$180k per year (depending on quarterly or monthly meeting frequency and level of monthly coordination)

5-Year GSP Update (Annual/5-Year)



- 5-Year GSP Assessment due 2025
- Evaluate GSP to assess if achieving sustainability goal
- Addressing data gaps and deficiencies identified in the 2020 Plan
- Rerunning and changes to Sustainable Management Criteria
- Includes new information since adoption and subsequent changes to plan
- Cost range estimate: \$800k-2M

Public Outreach and Website Maintenance



- Public outreach – two approaches:
 1. GSAs provide routine outreach to the public
 2. Outreach consultant performs regular outreach meetings across basin (assume quarterly), newsletter, general outreach – \$30k-\$40k
- Website maintenance (posting meeting information, data, reports) – \$5,000

Grant Writing



- Varies based on application type. State grants \$45-60k typical. Federal grants typically \$50k+

Implementation Elements and Initial Planning-Level Estimates



- Monitoring and Reporting – \$70k - \$85k annual
 - 2020 Annual Report (due April 2020) – \$50k - \$75k annual
 - DMS Updates – \$30-50k first year, following years \$20k
- Administrative Actions – \$70k - \$180k annual
- Data Collection and Analysis – \$350k + annual \$20k
- 5-year Update – \$800k - \$2M
- Public Outreach and Website Maintenance – \$35k - \$45k annual
- Grant Writing – \$45k - \$60k per application



Funding Sources

Funding Sources



GSA-Level:

- IRWM projects – GSA level
- Proposition 1 – GSA level
- Local GSA assessments or regional tax
- Pumping Fees

Additional funding options:

- Proposition 68 – \$500k available to ESJ (near-term administration needs)
- Eligible for Zone 2 Funding (investigation and planning)

Funding Sources - Discussion



Does the JPA want to pursue funding for Plan administration through Proposition 68?

- Cover costs associated with Plan administration, 2020 Annual Reporting.
- Budget for grant application would be needed, \$45k-60k
- Cost share for grant options - discussion

Example – Paso Robles Subbasin Groundwater Pumping Fee

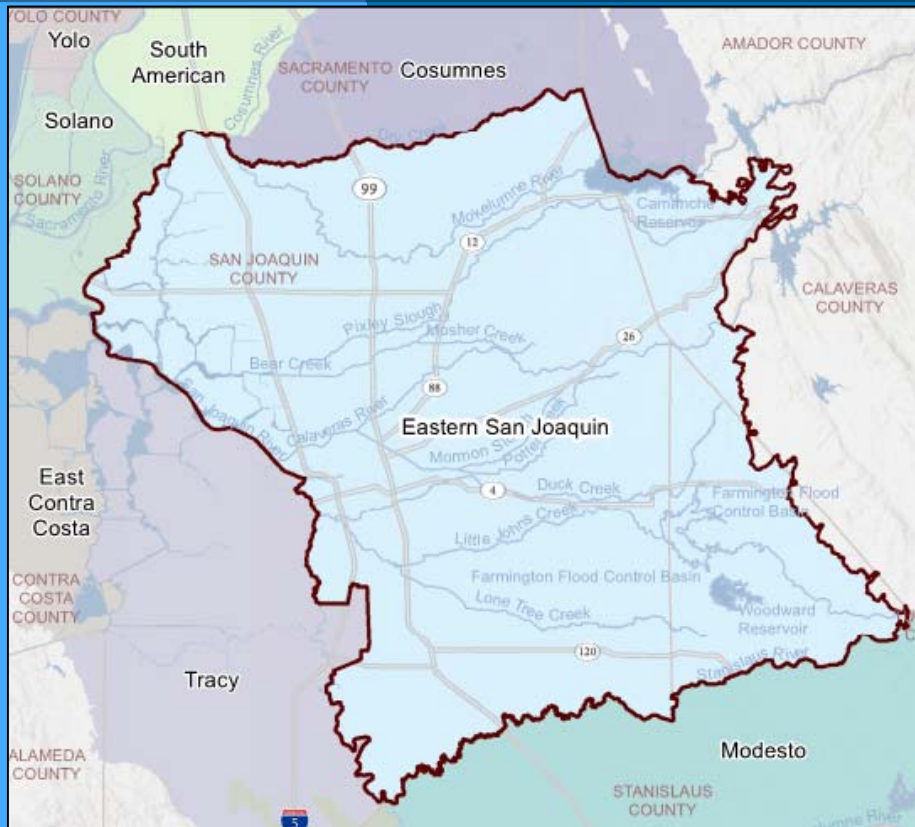


- The Paso Robles Subbasin has proposed a groundwater pumping fee to cover GSP implementation costs
- The proposed fee would be charged to groundwater users on per-AF basis.
- Under the draft proposals, domestic users who pump less than 2 AFY will be exempt from fees (de minimus). Heavier users would be charged a "base pumping assessment" up to a specific threshold based on historical water use. Any additional pumping that exceeds that threshold would be charged an "overproduction surcharge".



Inter-basin Coordination

Inter-basin Coordination



Next Step: Reach out to neighboring subbasins

- Cosumnes (2022 timeline)
- South American (Alternative plan)
- Solano (2022 timeline)
- Tracy (2022 timeline)
- Modesto (2022 timeline)
- East Contra Costa (2022 timeline)



Fourth Informational Meeting

Fourth Informational Meeting



July 18th, 5:00-8:00 PM

Robert J. Cabral Agricultural Center
Assembly Room 1
2101 E. Earhart Ave.
Stockton, CA

- Format will be open house style beginning with a brief presentation
- Focus will be on the Draft GSP Public Comment Period
- GSAs are strongly encouraged to attend
- Outreach materials will be sent to GSAs and posted to website



**County Coordination Process/Plan
Coordinator**

Coordination Process/Plan Manager



- County Coordination: changes and update to group
- “Plan Manager”: Delegated contact who has been delegated authority for submitting the GSP and who has been identified as a DWR point of contact in the basin.



July Agenda Items

July Agenda Items



- Draft GSP Public Review Period (anticipated July 10 – Aug. 25)
- Implementation Phase and Funding Next Steps

The July 10 Board and Advisory Committee meetings will be held at the Manteca Transit Center (220 Moffat Blvd., Manteca, CA)



**EASTERN SAN JOAQUIN
GROUNDWATER AUTHORITY**

**GWA Advisory Committee
June 12, 2019**