



**EASTERN SAN JOAQUIN
GROUNDWATER AUTHORITY**

**GWA Board Meeting
July 10, 2019**

Agenda



- Approval of June Meeting Minutes
- Draft GSP Public Review Period & Process for Adopting
- Outreach & Groundwater Sustainability Workgroup Update
- Comments Received on Draft GSP
 - Minimum DTW requirement for GWL minimum thresholds
 - Use of Municipal Wells in criteria for GWL minimum thresholds for municipalities
 - Use of isocontour line for seawater intrusion measurable objective
 - Updates to monitoring network
- Proposition 68 Application
- Plan Manager Position
- Implementation Phase and Funding Next Steps
- Fourth Informational Meeting – July 18, 5-8 PM, Robert J. Cabral Agricultural Center
- DWR Update



**Draft GSP Public Review Period & Process
for Adopting**

Draft GSP Public Review Period



The full Draft GSP is available July 10 – Aug 25.

- The Draft Plan is posted to the website homepage:
www.esjgroundwater.org
- Comments are due Aug 25, 2019 to
info@esjgroundwater.org
- An Informational Meeting will be held July 18 in Stockton, 5-8 PM at the Robert J. Cabral Agricultural Center, Assembly Room #1.

Draft Groundwater Sustainability Plan – Chapter Overview



1. Agency Information, Plan Area, and Communication
2. Basin Setting
 - Hydrogeologic Conceptual Model
 - Water Budget
 - Current & Historical Conditions
3. Sustainable Management Criteria
4. Monitoring Networks
5. Data Management System
6. Projects & Management Actions
7. Plan Implementation

Process for Adopting



- Public Draft comment period July 10 – Aug. 25
- NOI to adopt GSP distributed – July 20
- Final Draft distributed – Nov. 5
- JPA recommendation to adopt – Nov. 13
- GSAs adopt – Individual GSAs adopt Final Draft GSP – Nov. 5 – Jan. 1
- JPA adopts – Jan. 8
- GSP submittal deadline – Jan. 31, 2020

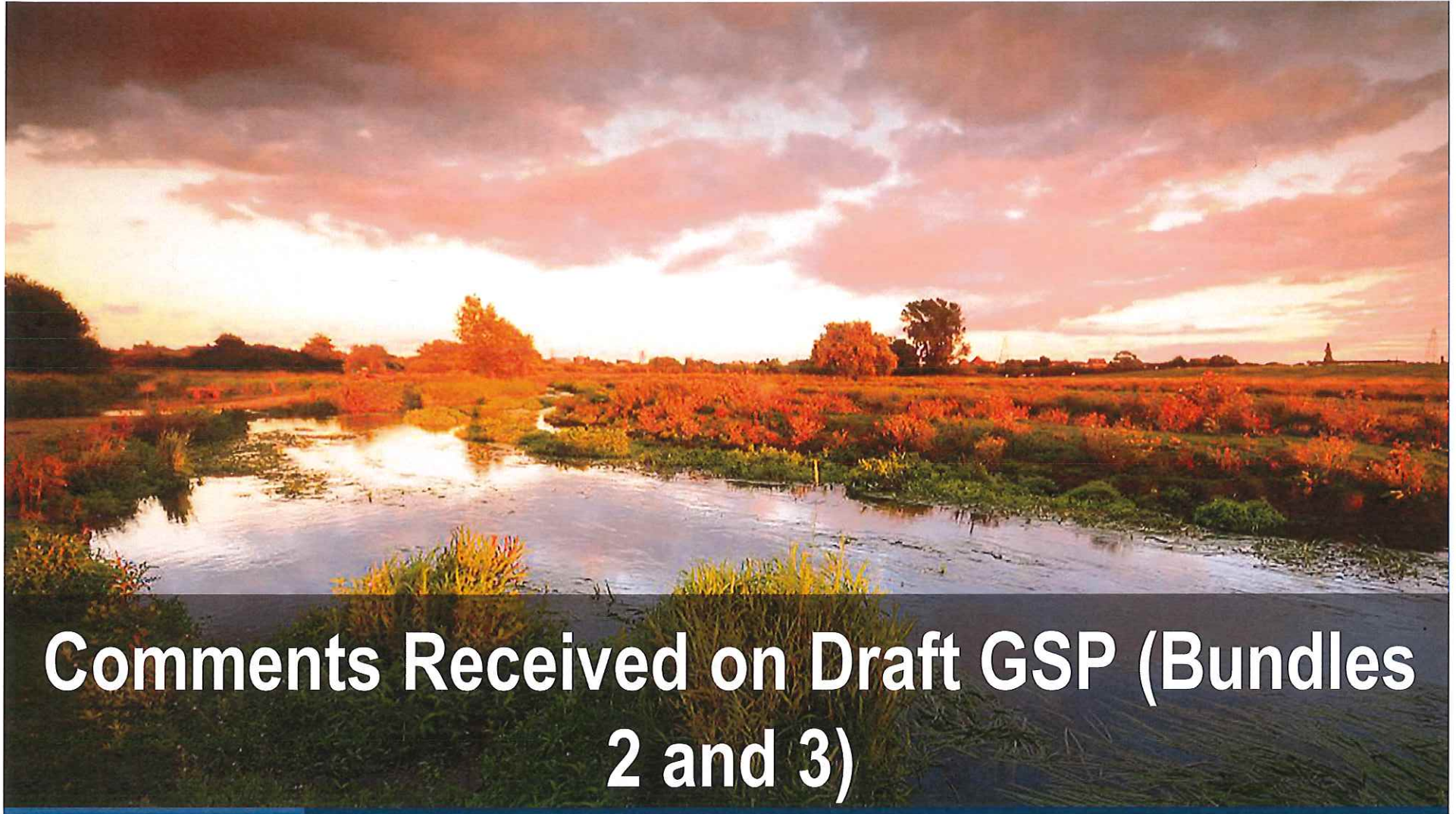


**Outreach & Groundwater Sustainability
Workgroup Update**

Groundwater Sustainability Workgroup Update



- 9 Workgroup members and 1 member of the public attended the Groundwater Sustainability Workgroup meeting held on June 12th
- The next Workgroup meeting will be held in September (date TBD) at the San Joaquin County Public Works Department
- Notes from Workgroup meeting are available on the website, esjgroundwater.org (under 'Agendas' tab)
- Workgroup discussion focused on groundwater recharge projects, outreach, and implementation plan next steps



Comments Received on Draft GSP (Bundles 2 and 3)

1. Minimum DTW for Thresholds (GW Levels)



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Action Needed: Board to vote on whether or not to change minimum threshold definition to consider a minimum DTW (could be consistent with well construction requirements). This would make the GW levels threshold shallower in areas with historically high groundwater.

Advisory Committee Recommendation: No change at this time

2. Use of Municipal Wells



Action Needed: Board to vote on whether or not to change the GW level minimum thresholds definition to use the 10th percentile municipal well criteria in place of 10th percentile domestic well criteria for municipalities with ordinances requiring use of City water.

Advisory Committee Recommendation: Approve change for use of municipal well criteria for representative monitoring wells located in cities requiring use of City water.

3. Use of Isocontour for Seawater Intrusion Measurable Objective



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Action Needed: Board to vote on whether or not to change the seawater intrusion measurable objective definition to reference an isocontour line set at 500 m/L chloride (same as SMCL for chloride). This is required for consistency with the minimum threshold. Previously the thresholds was defined as the current condition, using 2015-2018 average chloride concentration. The proposed isocontour line would be at the same location as for minimum thresholds (between the most westerly and next westerly monitoring points). The minimum threshold is currently 2,000 mg/L with a monitoring trigger is set at 1,000 mg/L.

Advisory Committee Recommendation: Approve change to use proposed isocontour line for the seawater intrusion measurable objective

4. Monitoring Network



1) Action Needed: *Board to vote to confirm change in groundwater level monitoring frequency to semi-annual (previously quarterly) based on staff recommendation.*

Advisory Committee Recommendation: Approve change to semi-annual

2) Action needed: *Board to vote to approve change in number of monitoring wells from 21 to 16 based on available data (143 to 138 total)*

Advisory Committee Recommendation: Approve change

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**



Proposition 68 Funding

Proposition 68



Action Needed: Should the JPA 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

Advisory Committee Recommendation: Pursue funding through Prop. 68



Plan Manager Position

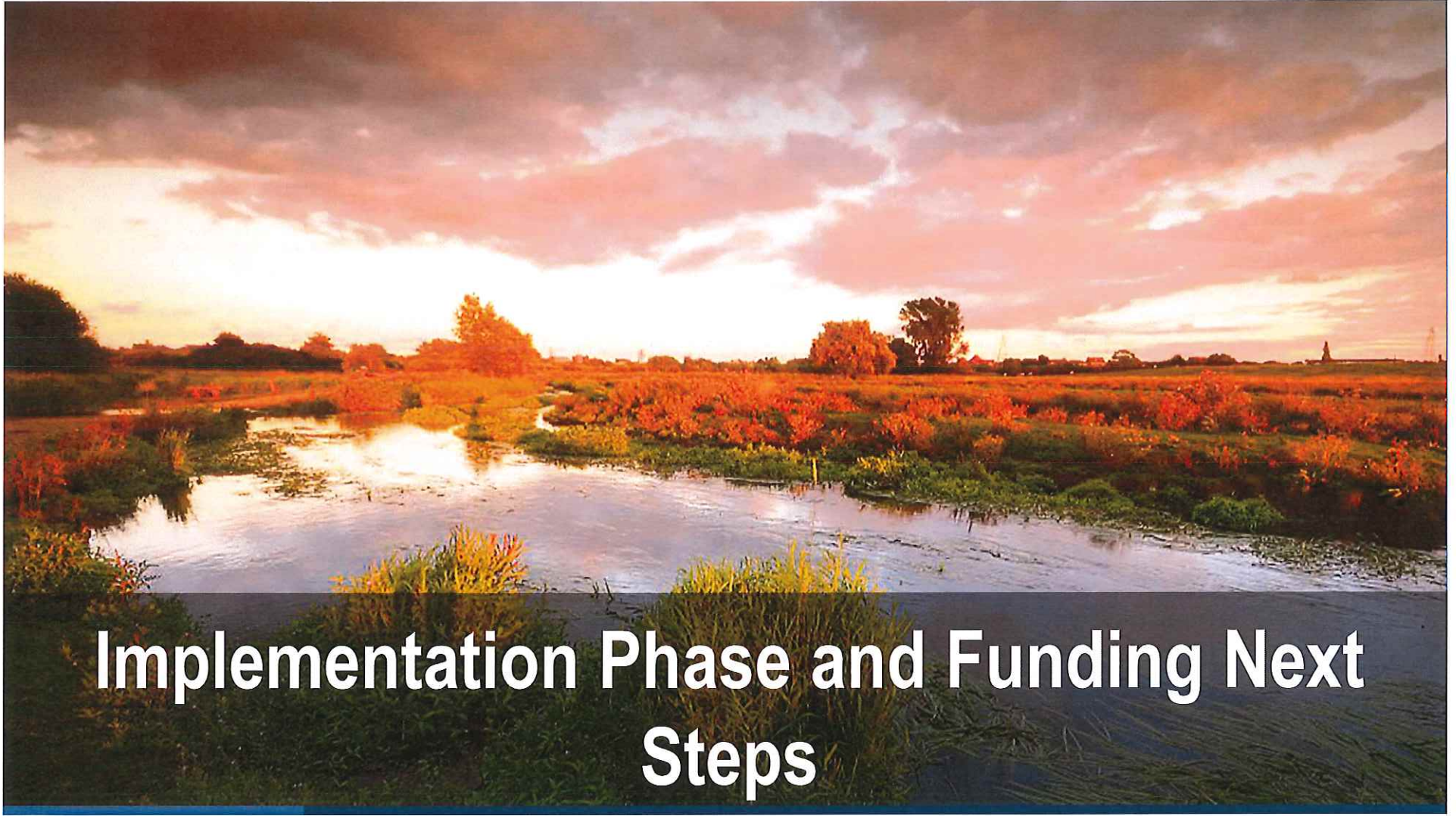
Plan Manager



Action Needed: *The Board to vote to identify a Plan Manager*

A **Plan Manager** is a “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.”

Advisory Committee Recommendation: Plan Manager position to run with San Joaquin County



Implementation Phase and Funding Next Steps

JPA Role Update



- An ad-hoc committee has been formed to discuss what the role of the JPA will be going forward
- First meeting was held July 8

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 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)



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- 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



Fourth Informational Meeting

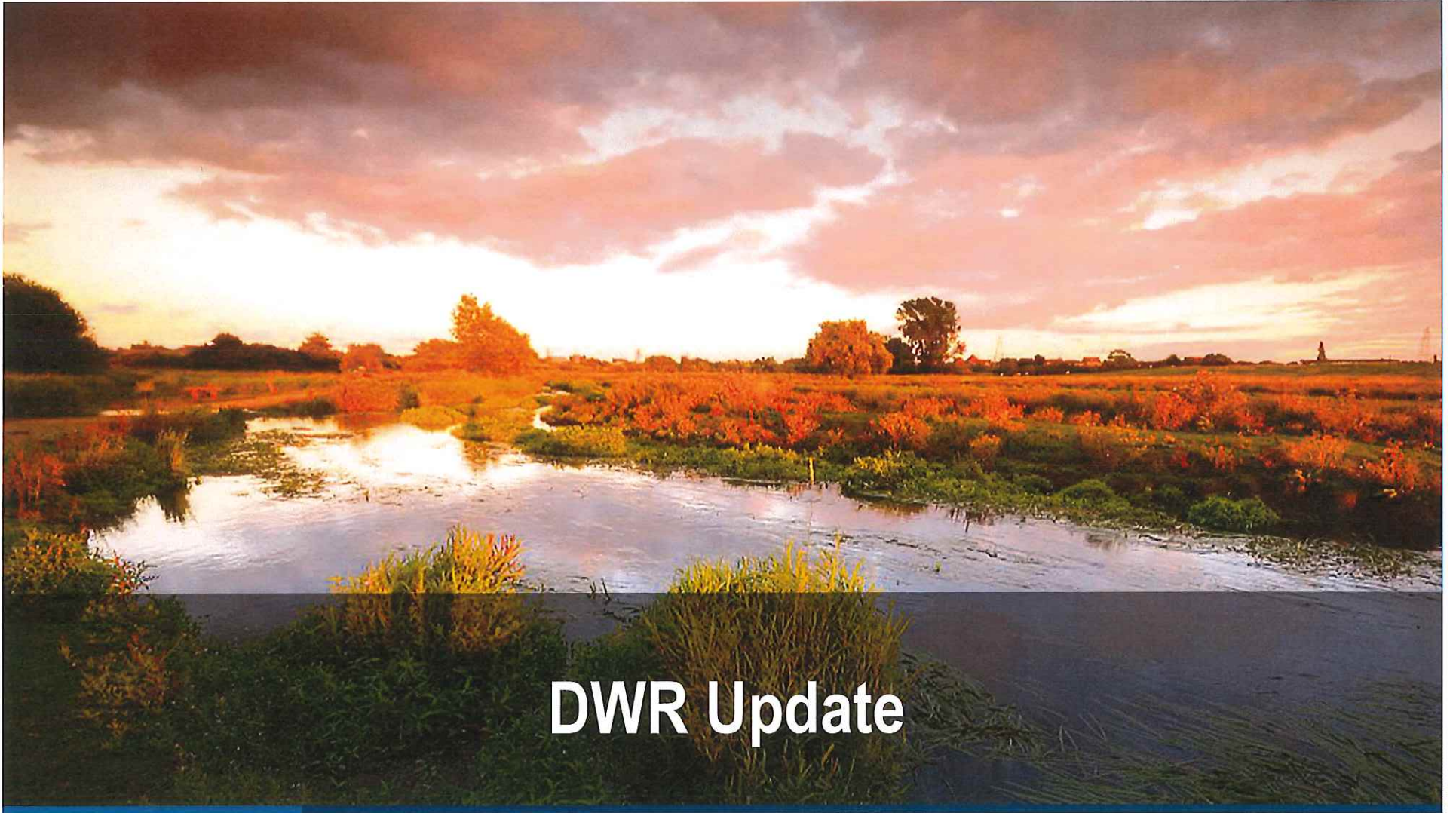
Fourth Informational Meeting



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
- Outreach materials have been sent to GSAs and posted to the website



DWR Update



August Agenda Items

August Agenda Items



- Suggestion to meet next in September once comments are back on the Draft GSP (no August meetings).



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**GWA Board Meeting
July 10, 2019**

