

MEETING AGENDA

- Introductions/Agenda Review
- Participant Outreach
- Preliminary Identification of Permitted Dischargers
- Initial Groundwater Assessment Update
- Areas With Wells Exceeding Nitrate Objective Update
- Early Action Plan Process to Identify Domestic Well Residents
- Project Schedule
- Posting Pilot Study Materials
- Review Action Items
- Scheduling Future Meetings

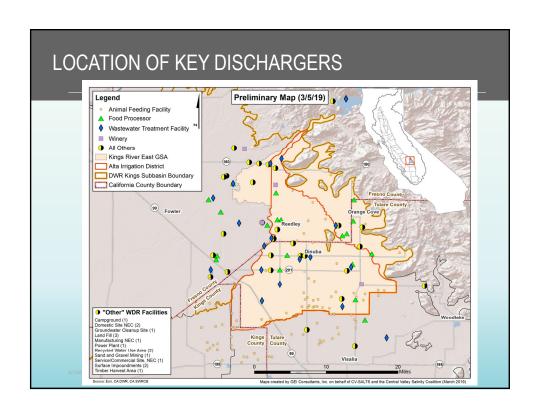
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IDENTIFICATION OF PERMITTED DISCHARGERS: PURPOSE

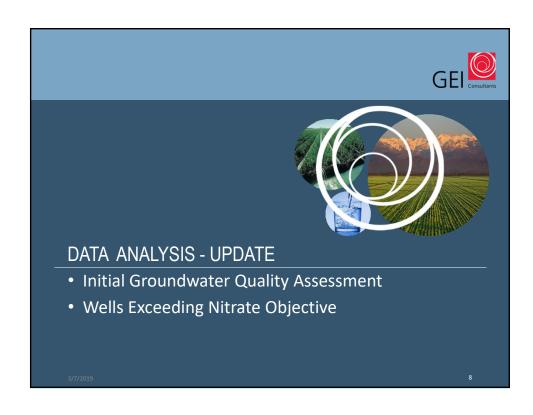
- Preliminary Management Zone Proposal must include the following:
 - Identification of other dischargers and stakeholders in the Management Zone area that the initiating group is in contact with regarding participation in the management zone
 - Identification/summary of current treatment and control efforts, or management practices

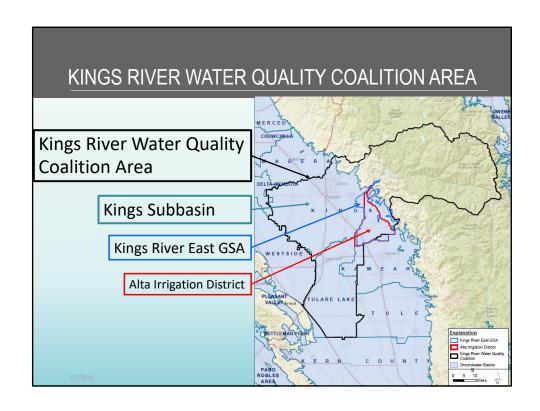


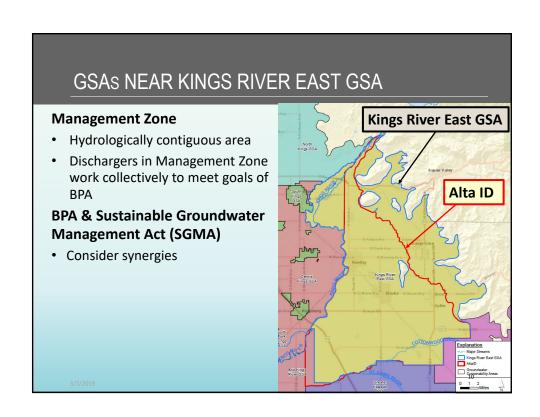
PRELIMINARY DISCHARGER IDENTIFICATION: INITIAL FINDINGS

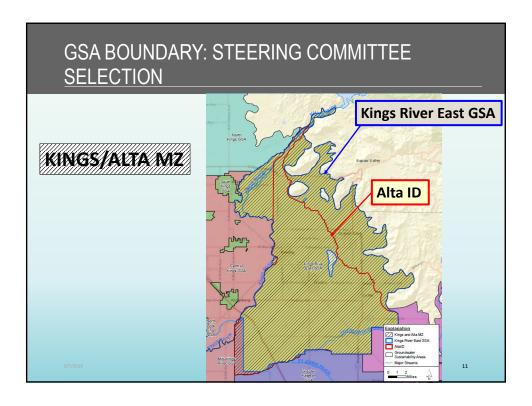
- Handouts Preliminary List of Dischargers within Management Zone Boundary; Source: California Integrated Water Quality System Project (CIWQS)
- List is preliminary only; generated by overlaying GIS coordinates of facilities with GSA boundaries
- Next Steps
 - Work with the Regional Board staff on refining the list
 - Conduct additional outreach where needed
 - For dischargers interested in Management Zone participation, obtain information on current nitrate management practices

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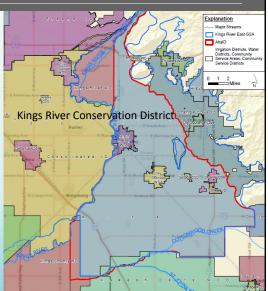
ADDITIONAL DATA INQUIRIES

- DACs/DUCs/Related
 - Policy Link: DUC polygon information (2013 data; 2014 published)
- Domestic Wells
 - Fresno Co. Env. Health has domestic well data; would have to go to their office to look up info for each well of interest (not all sampled)
 - Tulare Lake Bed (Mike Hickey Tulare Co.): provided very large database
- Groundwater quality (Seeking data not available on public websites)
 - Fresno Co. State Smalls: list of 23 state smalls; have NO₃ data on most for recent years; website has a lookup utility (individual docs/not tabulated)
 - Tulare Co. State Smalls: list of 30 state smalls (provided as PDFs)
 - Tulare Lake Bed (Mike Hickey Tulare Co.): provided very large database
 - Kings County: indicate 8 state smalls; no info on location yet
 - Hydrogeologic Conceptual Model (including GW quality)
- Permitted discharge sites
 - Regional Board update

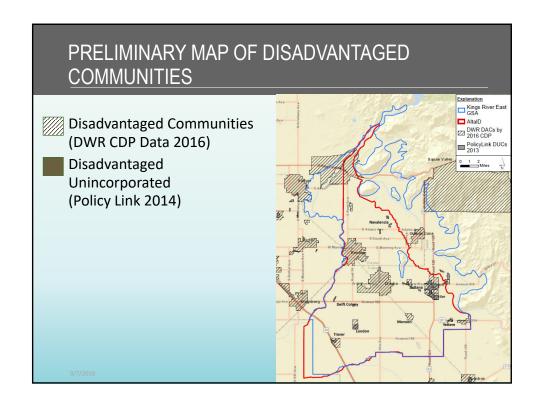
OTHER AGENCIES IN KINGS EAST RIVER GSA (INCLUDING ALTA ID)

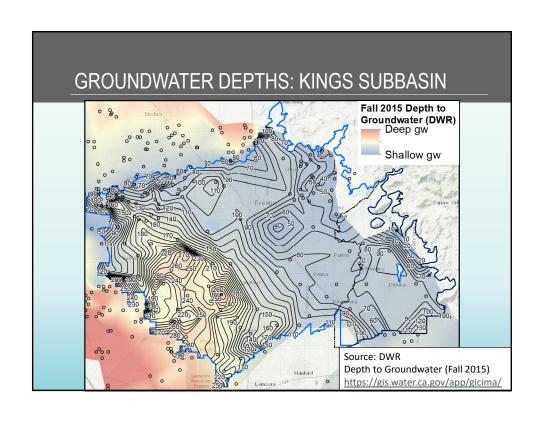
Kings River East GSA

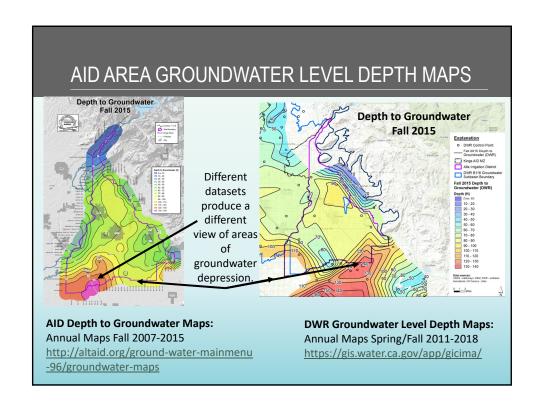
- Kings River Conservation District
- Alta ID
 - City of Reedley
 - City of Dinuba
 - Sultana
 - Cutler
 - Orosi
- Tri Valley WD
- Hills Valley ID
- City of Orange Cove
- Orange Cove ID

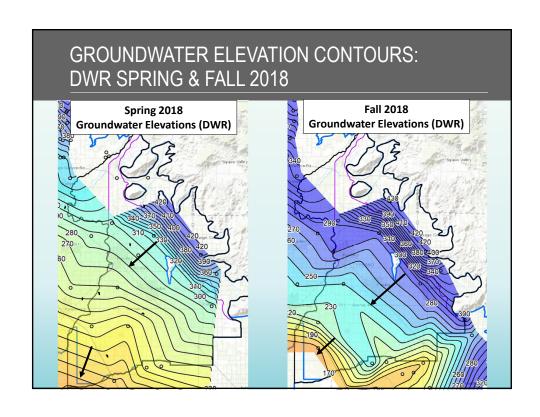


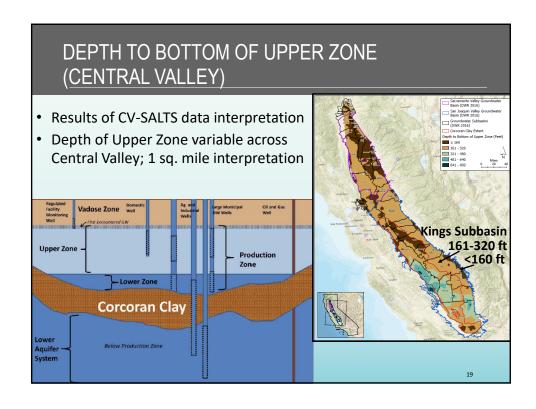
PUBLIC WATER SYSTEMS - City of Reedley - City of Dinuba - Sultana - Cutler - Orosi - Monson Water System

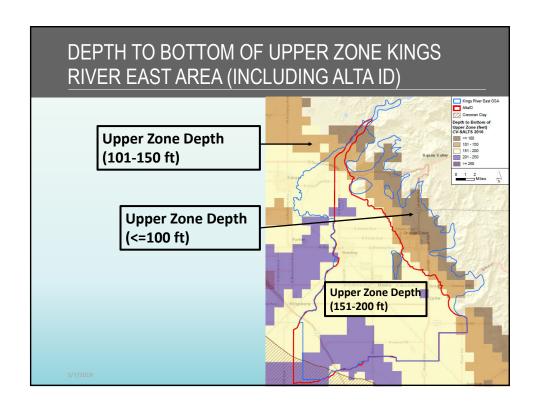


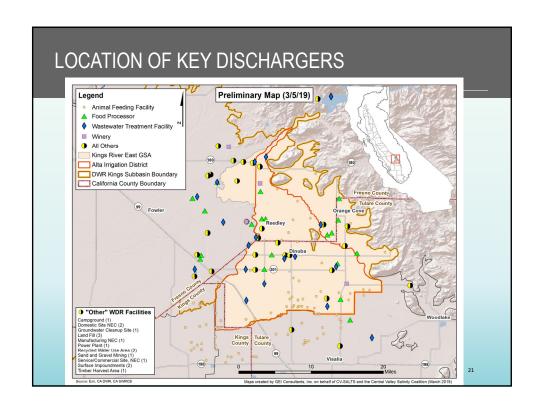


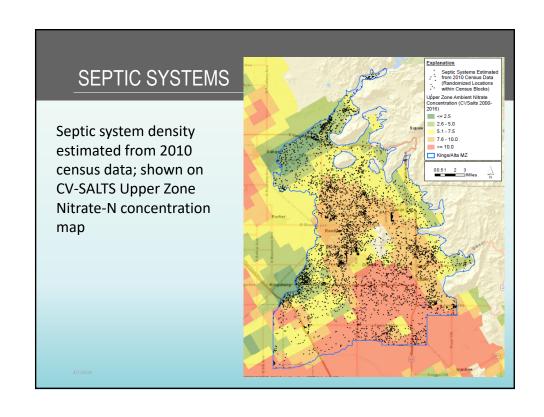




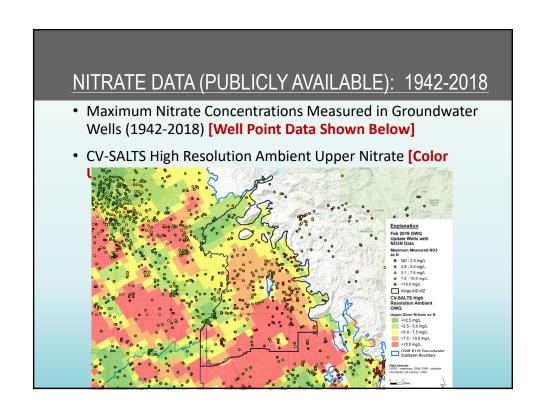








NITRATE GROUNDWATER DATA UPDATE (PUBLICLY AVAILABLE DATA) • Maximum Nitrate Concentrations in Groundwater Wells: All Publicly Available Data | Februaria | Febru



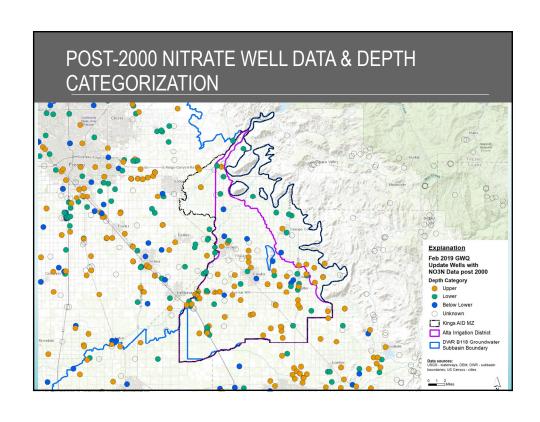
NITRATE DATA WELL DEPTH CATEGORIZATION

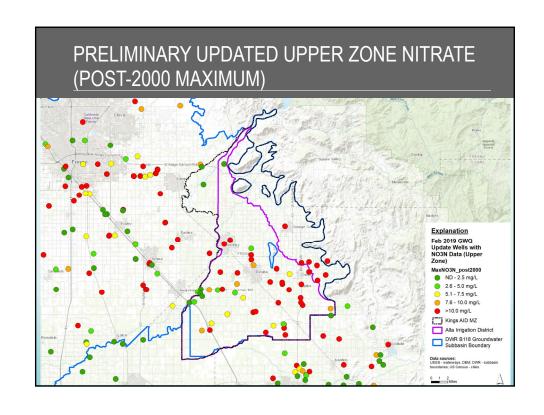
- First by Well Depth, if available
- Second (if no well depth info is available) by Well Type
 - Monitoring Wells (regulated facility) = Upper
 - Domestic Wells = Upper
 - Municipal Wells: use DWR's Well Completion Report statistics for township/range-sections mean well depth
 - Unknown Well Type =
 Unknown Well Type

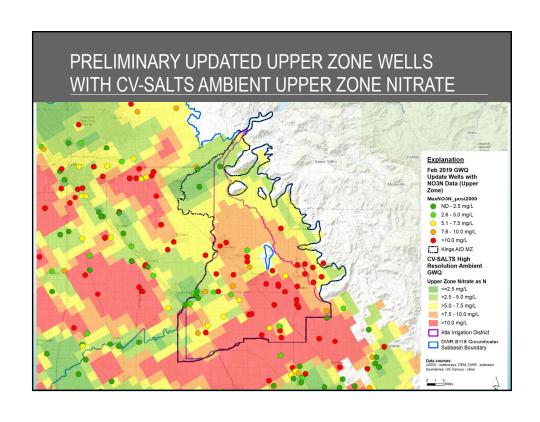
Wells with Nitrate Data in Kings/AID MZ (all dates):

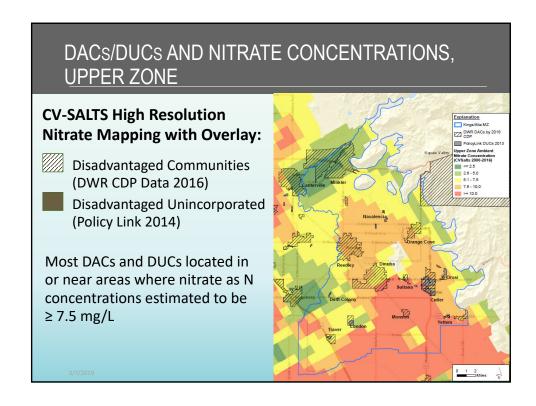
| Total Number of Wells in MZ | 268 |
|-----------------------------|-----------|
| Wells without Depth Info | 230 (86%) |
| Wells with Depth Info | 38 (14%) |

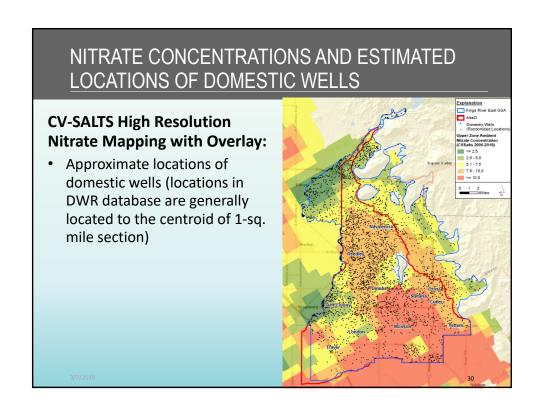
| · | | |
|-----------------------|-----------------|--|
| Depth Category | Number of Wells | |
| Upper | 88 (33%) | |
| Lower | 42 (42%) | |
| Below Lower | 9 (3%) | |
| Outside Valley Floor | 7 (3%) | |
| Unknown | 122 (46%) | |
| Total | 268 | |

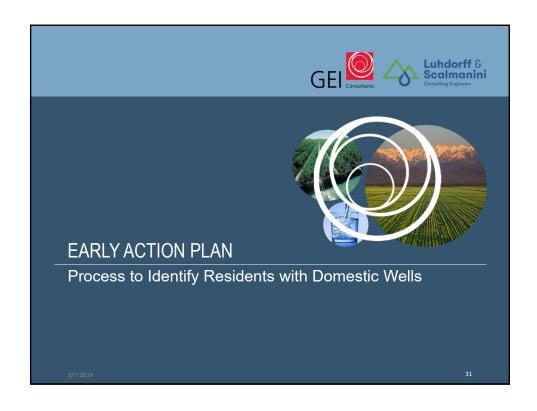












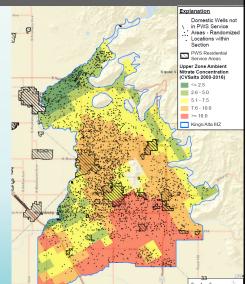
POTENTIAL APPROACHES TO IDENTIFY AREAS FOR EARLY ACTION PLAN

- 1. ID areas most likely served by community water system groundwater source
 - Identify PWS service areas
 - Identify state small water system locations (wells; service areas if known)
- 2. Domestic wells
 - Focus on wells likely located outside of areas most likely served by community water system
- 3. Nitrate exceeding Drinking Water Standard
- 4. Other? (e.g., update information with future domestic well WQ data)
- ➤ Intersect subset of Domestic wells with Nitrate areas where groundwater likely to exceed 10 mg/L as NO₃-N

INTERSECTION OF PWS, DOMESTIC WELL AND ELEVATED NITRATE DATASETS (PRELIMINARY EXAMPLE)

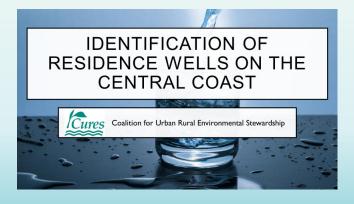
- Estimated number of domestic wells located in areas where NO₃-N concentrations (outside of PWS service areas) appear to be elevated
 - 472 Wells
 - ____ 1,189 Wells

NOTE: This preliminary example uses the CV-SALTS Ambient NO3-N Concentration mapping; the NO3-N concentrations in the updated well data through 2018 show more wells exceeding 10 mg/L.

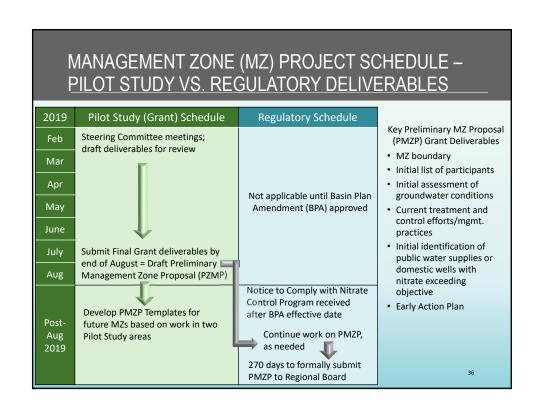


EXAMPLE OF A DOMESTIC WELL IDENTIFICATION PROCESS

 Presentation – Coalition for Urban Rural Environmental Stewardship









FINAL AGENDA ITEMS

- Posting Pilot Study Materials
- Review of Action Items
- Scheduling Future Meetings

3/7/2010

