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GSA Administration

- GSA Board Meetings
- Advisory Committee Meetings
- Finance support (accounting, financial audits, budget development and tracking, etc.)
- Operational support (insurance, supplies and materials, GUIDE program dataset maintenance and updates)
- Legal support, as-needed

Communication and Stakeholder Engagement

- Maintaining and Improvements to Website
- Maintaining and Improvements to GUIDE Interface
- Roll-out and maintaining Groundwater Data Dashboard (under development)
- Periodic Community Meetings
- Focused stakeholder group briefings and engagement
- Engagement and coordination with other agencies and regional partnerships:
  - Local: County and City Planning, Permit Sonoma, other GSAs
  - State: DWR, SWRCB (Drinking Water and Water Rights Divisions), RWQCB

Routine Monitoring, Data Evaluation and Annual Reporting

- Groundwater-level Monitoring
  - 16 RMP wells for GWL SMC
  - ~ 20 other wells from full monitoring network for analyzing trends and developing contour maps
  - 3 shallow-zone RMP wells for ISWD SMC
- Streamflow Measurements
  - Compile and evaluate from existing gauges
- Groundwater Quality Monitoring
  - Compile and evaluate data collected and reported through existing programs (i.e., public drinking water systems)
- Subsidence Monitoring
  - Compile and evaluate InSAR data provided by DWR
- Groundwater Storage Calculations
  - Calculate and report annual storage change using groundwater-level contour maps developed from full GSP groundwater-level monitoring network

Data collected will follow DWR requirements and BMPs for data standards and monitoring protocols, checked for quality, stored in a data management system and uploaded to DWR online monitoring module.

Primary Data Gaps

- Amounts and locations of groundwater pumping (rural residential, agricultural, commercial, and industrial)
- Three-dimensional data gaps in the monitoring network for each primary aquifer, including spatial coverage and aquifer interconnection
- Role of faults within and along the boundaries of the Basin
- Basin boundary characteristics, such as the direction and magnitude of groundwater fluxes across Basin boundaries
- Interconnection of streams to the shallow aquifer system, including seasonal variability and how groundwater pumping can affect streamflow
- Aquifer characteristics, recharge and discharge mechanisms and volumes for both the shallow and deep aquifer systems
- Distribution and extent of brackish groundwater along margins of Baylands area

Addressing Data Gaps

Studies and Information Gathering:

- Outreach and information sharing with well owners (e.g., GUIDE program)
- Improve data/information on existing water wells and stream diversions
- Evaluate future airborne geophysical data (DWR funded)
- Additional geophysical surveys
- Aquifer tests
- Additional GDE mapping/remote sensing for vegetation health
- Compile and evaluate existing and relevant habitat field surveys

Monitoring Network Improvements

- Install additional multi-depth monitoring wells with focus on developing Seawater Intrusion RMP network and addressing data gaps in Groundwater-Level RMP network
- Consider expansion of voluntary groundwater-level network
- Additional shallow monitoring wells near streams, as-needed

Maintaining, Updating and Improvements to Model

- Focus improvements on initial 3 years of implementation to facilitate reassessing preliminary SMCs, as appropriate, and planning for any projects and actions

- Model updates and refinements will be informed by data and information collected during early stages of implementation (e.g., monitoring data, tracking of land-use data etc.)

- Preliminary areas of focus:
  - Focused calibration of surface water and groundwater interaction
  - Assessment of model boundary conditions
  - Improve how model represents groundwater pumping
  - Assessment of aquifer properties assigned to model

Refinement, Study, and Implementation of Potential Projects and Actions

- Assessment of conservation and groundwater-use efficiency opportunities (study of groundwater use characteristics, existing levels of water-use efficiency, preferred tools and strategy recommendations, etc.)
- Implementation of planned recycled water expansion and assessment of additional recycled water irrigation opportunities
- Managed Aquifer Recharge (MAR):
  - Study of On-Farm and other dispersed recharge opportunities
  - Stormwater capture and recharge site specific investigations
  - Feasibility Study for aquifer storage and recovery (ASR) opportunities and pilot studies

- Study of potential policy options for future GSA consideration

Five-Year GSP Update

- First update scheduled for 2027
- Evaluation of new information and refinement of SMCs
- Update 50-year projected water budget
- Used to assess progress towards sustainability goal or to show how sustainability has been maintained
- Include any significant new information or changes that have been made after submittal of 2022 GSP

Five-Year Budget, Schedule and Funding Strategy

Focus will be on initial 5-years of GSP implementation

- Prioritize studies and information gathering that will reduce uncertainty and advance refinement of SMCs

Potential funding sources:

- GSA fee program (rate and fee study planned for 2021/2022)
- Grant funding (DWR, federal and local grant opportunities)
- DWR technical support (new RMP wells, airborne geophysics, etc.)
- Partnerships with member agencies, other GSAs and other entities that leverage mutually-beneficial programs, projects and studies
- Others?

Next Steps

- Prioritize activities and recommended studies
- Further develop descriptions of activities
- Develop cost estimates and funding strategy
- Refine implementation schedule

Questions/Discussion