

Technical Support Services: Well Service Request Groundwater Sustainability Plan Development

“The Department of Water Resources’ (DWR) Technical Support Services (TSS) supports Groundwater Sustainability Agencies (GSAs) as they develop their Groundwater Sustainability Plans (GSPs).”



TSS activities offered:

Field Activities

- Monitoring Well Installation
 - Geophysical Logging
 - Geologic Logging
- Groundwater Level Monitoring Training
- Borehole Video Logging
- Monitoring Well Installation

Modeling

- Modeling Training and Support (pending DWR updated model release)

Obligations of receiving the TSS:

- Share data with DWR and the public
- Comply with all applicable laws related to the technical support service
- Work in an open manner toward the development of a GSP
- Complete GSA’s responsibilities related to the requested technical support within given timeframe
- Support DWR staff and contractors who provide the technical support services.

The TSS service must satisfy at least one of the following GSP Development Needs in the basin:

- Fill data gaps and enhance the monitoring network
- Reduce data uncertainty
- Help characterize the basin/subbasin groundwater conditions
- Data collection for establishing and monitoring measurable objectives and minimum thresholds

The TSS request will need to explicitly identify and define the purpose and objective for your “Projects”

Possible TSS options for the Cosumnes Subbasin:

(1) Install nested monitoring wells in areas of existing data gaps or key areas of interest within the basin:

- Wells will be sited and designed to:
 - Function as dedicated monitoring wells
 - Screen all principal aquifer units within the basin
 - Provide a refined understanding of groundwater recharge sources, vertical gradients, spatial/temporal trends in groundwater elevations, cross-boundary flows and impacts to pumping within each principal aquifer unit

(2) Borehole video logging to retrofit existing wells for use as permanent monitoring wells:

- Candidate wells:
 - Must still be intact (i.e., not destroyed)
 - Screen interval should be representative of principal aquifer unit within the basin
 - Can be converted into a permanent monitoring well
 - Are regularly accessible by the GSAs and/or other monitoring entities

Projects need to be planned in detail before submitting a Project-specific request to DWR.

See back page for a listing of Project application information requirements.

A Well Service Request form is completed for each "Project" and must be submitted as one application per Basin by a designated "Basin Coordinator" (in the Cosumnes Subbasin, the designated coordinator is the Water Forum).

Information needed for EACH Project (well) site:

- Landowner
 - Name: _____
 - Address: _____
 - Phone number: _____
- Lease Holder
 - Name _____
 - Phone number _____
- Well
 - Location Name _____
 - Location Type: Planned or Contingent
 - Address of property location where TSS Well Service Request will occur
 - Coordinates (WGS84 or NAD83): Latitude: _____ Longitude: _____
- Public Land Survey System Information
 - Base Map _____
 - Quadrangle _____
 - Township _____
 - Range _____
 - Section _____
 - Describe distances from mapped landmarks: _____
 - Describe access to well: _____
 - Describe surrounding land use: _____
 - Describe on-site water supplies (e.g. city meter, well, canal, stream, none, etc.): _____
 - Describe any known cultural or biological restrictions: _____
 - Describe ground surface at well location (e.g. asphalt, concrete, grass, etc.): _____
 - List any known subsurface investigations, studies, or monitoring reports: _____
 - Are there nearby geophysical surveys available?: yes or no
 - Are there nearby borings or wells? (<1 mile): yes or no
 - Are there nearby well logs available? (<1 mile): yes or no
- Describe on-site access to power, telephone or digital line services to the well location: _____
- Seasonal/Historical Groundwater Level Data
 - Seasonal: Shallow Depth (feet, bgs): _____ Date: _____
 - Seasonal: Deep Depth (feet, bgs): _____ Date: _____
 - Historic: Shallow Depth (feet, bgs): _____ Date: _____
 - Historic: Deep Depth (feet, bgs): _____ Date: _____
- TSS Well Service Request Details for well location:
 - Planned Well Drilling Services (circle all that apply): Hollow Stem Auger Drilling, Mud Rotary Drilling, Geophysical Logging, Well Development
 - Total Depth of Planned Exploration (ft bgs): _____
- Targeted Depths of Monitored Aquifer Zones:
 - Zone 1 (ft bgs): _____ to _____
 - Zone 2 (ft, bgs): _____ to _____
 - Zone 3 (ft, bgs): _____ to _____
 - Zone 4 (ft, bgs): _____ to _____
- Cost Estimate for this Well Service Location: \$ _____