

**Cosumnes Subbasin - SGMA Technical Advisory Committee
September 19, 2018 Meeting Support Materials**

Technical Support Services Grant Fact Sheet

(Item 1 of 4)

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 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".

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: \$ _____

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Public Water Supply Data Request

(Item 2 of 4)

Dear _____,

The Sustainability Groundwater Management Act (SGMA) provides the State of California's framework for managing public groundwater resources in a way that will benefit all Californians, especially future generations.

The Cosumnes Subbasin SGMA Working Group is preparing a Groundwater Sustainability Plan under SGMA to characterize groundwater conditions within the Cosumnes Groundwater Subbasin (Subbasin), and to outline challenges faced by the Subbasin for future sustainable use of local groundwater. We are reaching out to you because you either operate wells within the Subbasin or supply potable water to customers within the Subbasin. We are requesting the following supply or monitoring well data from 1995 to the present, and any earlier if possible:

- Exact well locations as GPS coordinates (decimal latitude/longitude preferred), or detailed maps
- Well construction information:
 - date of installation
 - primary well use (agricultural, domestic, industrial, monitoring, etc.)
 - total well depth
 - screened intervals
 - casing diameter and material
 - pump intake depth, discharge pipe diameter
 - pump plate info (horsepower)
 - measuring point elevation
 - instrumentation (if any; e.g., pressure transducer, flowmeter, airline with gauge)
- Well construction logs, geologic logs, and/or geophysical logs
- Groundwater level data as depth to water and/or groundwater elevation. Please also provide date, time, and method used to measure water level, if known
- Monthly pumping rates and units of measure (gallons per minute, cubic feet per day, etc.)
- Groundwater quality data
- Aquifer pumping test data and analyses/reports

We hope you can provide us with data from all wells you operate, so that we can more accurately characterize the Basin's historical and current groundwater conditions. More data allows a better understanding of current conditions, and therefore better-informed decisions for all Subbasin stakeholders.

Please email or call with any questions.

Sincerely,

XXXX

[\[GSA Point of Contact\]](#)

**Cosumnes Subbasin - SGMA Technical Advisory Committee
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Landowner Data Request

(Item 3 of 4)

Cosumnes Subbasin SGMA Working Group Well Construction Data Request Form



Available at <http://cosumnes.waterforum.org>

The Sustainable Groundwater Management Act of 2014 (SGMA) provides the State of California's framework for managing public groundwater resources in a way that will benefit all Californians, especially future generations. The Cosumnes Subbasin SGMA Working Group is doing its part to implement SGMA in the Cosumnes Groundwater Subbasin by gathering data that will help us understand the challenges faced by subbasin residents in their path to sustainable use of local groundwater. If you can provide us information regarding wells, groundwater levels, pumping and crops, streamflow, or other pertinent data, please do! More data means more-informed decisions and a better outcome for all subbasin residents.

Data Provider / Owner:	
Contact Address:	
Phone / Email (optional):	

Groundwater Well Construction Data (Form #1 of 4)

All fields are optional, but please complete as much information as you can, and email the completed PDF form back to [\[GSA POC email\]](#). You also can print the form, fill it out manually, and mail it to [\[GSA POC name\]](#) at [\[GSA POC mailing address\]](#). If you have driller's reports, well logs, e-logs, other geophysical logs, pumping test reports, chemical analytical reports, driller's invoices, or other documents that can help us understand your well's construction or use, please include copies of these documents (but please do not send originals). If you need more copies of these forms, please email us, or download forms from the Water Forum website at <http://cosumnes.waterforum.org> Thank you for your help!

Owner's Well Number or Name	(Well #1)	(Well #2)	(Well #3)	(Well #4)	(EXAMPLES)
Well Location Address <i>(if different than owner's address)</i>					123 Main Street Anytown, CA 93243
California State Well Number					09N/19W/35G12S
Well Location Data, As Available <i>(can use mobile phone coordinates)</i>	Latitude (°N)				34.827360° N
	Longitude (°E)				-118.869217° E
	Elevation (ft, MSL)				3647.63 ft MSL
	Township				9 N
	Range				19 W
	Section				35
	Tract				6
Primary Well Use <i>(e.g., Agricultural, Domestic, Industrial, Monitoring)</i>					Agricultural
Casing Diameter (inches)					14-in
Casing Material <i>(e.g., PVC, mild steel, stainless steel, other)</i>					Steel
Total Cased Well Depth (ft, BGS)					400
Screened Interval Depth(s) (ft, BGS)					310-340, 380-400
Pump Intake Depth (ft, BGS)					300
Nominal Pump Rating (HP)					30
Date of Well Drilling / Construction					1986
<i>Please Provide Logs, Reports, or Data if Available</i>	Geologic Log?				Yes, attached
	Geophysical Logs ? <i>(e-logs)</i>				Yes, attached
	Pumping Test?				Yes, attached
	Water Quality Data?				Yes, attached

Abbreviations:

- ft, MSL = feet above mean sea level
- ft, BGS = feet below ground surface
- HP = Horsepower

Cosumnes Subbasin SGMA Working Group Water Level Data Request Form



Available at <http://cosumnes.waterforum.org>

Data Provider / Owner:	
Contact Address:	
Phone / Email (optional):	

Groundwater Depth Measurements (Form #2 of 4)

Please be sure to complete Form #1 (Well Construction Info) for all wells with water-level data recorded on this form

All fields are optional, but please complete as much information as you can, and email the completed PDF form back to [\[GSA POC email\]](#). You also can print the form, fill it out manually, and mail it to [\[GSA POC name\]](#) at [\[GSA POC mailing address\]](#). Thank you for your help!

Owner's Well Number or Name	Date of Water Level Measurement	Depth to Water Below Measuring Point (ft, BMP)	Description of Measuring Point <small>(e.g., top of casing, sounding port, pump plate, etc.)</small>	Elevation of Measuring Point (ft, MSL)	Above-Ground Height of Measuring Point (ft, AGS)	Method Used to Measure Water Level <small>(e.g., air line, electric sounder, sonic sounder, chalk line, tape)</small>
Smith #2	7/1/2018	62.54 ft	3/4-inch threaded port in top plate	3647.63 ft MSL	1.63 ft	100-ft steel tape with chalk

Abbreviations:
 ft, AGS = feet above ground surface
 ft, BMP = feet below measuring point
 ft, MSL = feet above mean sea level

Cosumnes Subbasin SGMA Working Group Pumping and Crops Data Request Form



Available at <http://cosumnes.waterforum.org>

Data Provider / Owner:	
Contact Address:	
Phone / Email (optional):	

Groundwater Pumping Measurements (Form #3 of 4)

Please be sure to complete Form #1 (Well Construction Info) for all wells with pumping data recorded on this form

All fields are optional, but please complete as much information as you can, and email the completed PDF form back to [\[GSA POC email\]](#). You also can print the form, fill it out manually, and mail it to [\[GSA POC name\]](#) at [\[GSA POC mailing address\]](#). If your well is not metered, please estimate "typical" pumping rates, pumping hours per day, and pumping days per month over the year. If pumping rates, cropping, etc. have changed significantly in the last few years, please get additional copies of this form, and provide data or estimates for each period, one per form. Thank you for your help!

Owner's Well Number or Name		(Well #1)	(Well #2)	(Well #3)	(Well #4)	(EXAMPLES)
						Smith #2
Usual Pumping Rate <i>(estimate if not metered)</i>						725
Pumping Rate Units <i>(e.g., GPM, CFS, MGD, AFD, AFY)</i>						GPM
Calendar Year (or Years) for Pumping Data						2010 - 2017
January	Hours per Day					0
	Days per Month					0
February	Hours per Day					0
	Days per Month					0
March	Hours per Day					0
	Days per Month					0
April	Hours per Day					0
	Days per Month					0
May	Hours per Day					24
	Days per Month					2.5
June	Hours per Day					18
	Days per Month					10
July	Hours per Day					18
	Days per Month					10
August	Hours per Day					18
	Days per Month					10
September	Hours per Day					18
	Days per Month					5
October	Hours per Day					0
	Days per Month					0
November	Hours per Day					0
	Days per Month					0
December	Hours per Day					0
	Days per Month					0

Abbreviations:

GPM = gallons per minute
CFS = cubic feet per second

MGD = million gallons per day
AFD = acre-feet per day

AFY = acre-feet per year

Stakeholder Survey

(Item 4 of 4)

Cosumnes Subbasin SGMA Working Group Stakeholder Survey

The Cosumnes Subbasin SGMA Working Group (Working Group) is conducting this survey to understand more about groundwater users (stakeholders) in the Cosumnes Subbasin. Any answers provided to these questions will help support the development of a more accurate, fair, and useful Groundwater Sustainability Plan (GSP) for the Cosumnes Subbasin.

Date: _____

Affiliated organization or business name (if applicable): _____

Contact information:

Name: _____

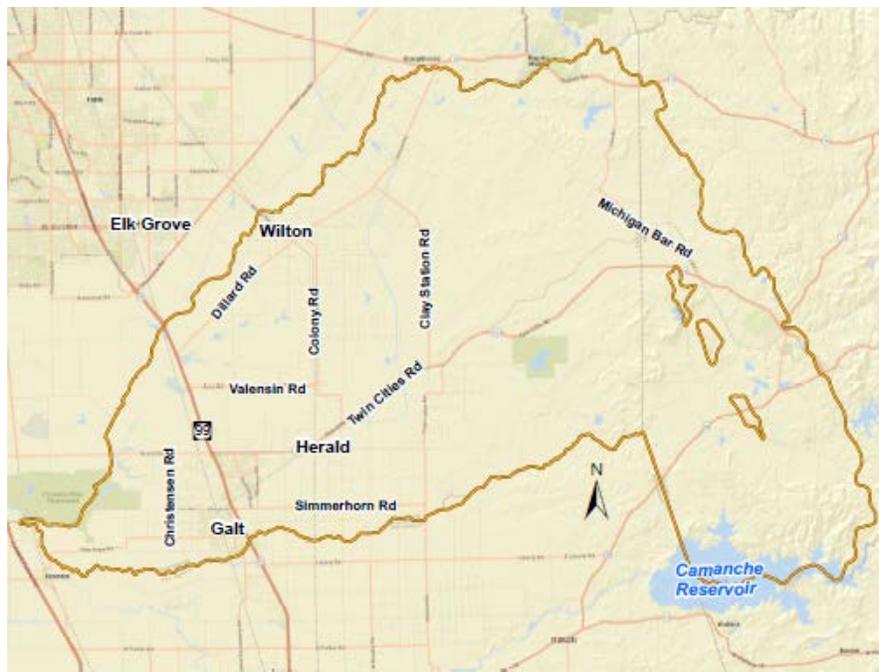
Email: _____

Phone Number: _____

Address: _____

Website: _____

Please mark the approximate location of your land, home, business, or well(s) with a dark-colored X on the map below of the Cosumnes Subbasin:



Stakeholder Type (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Groundwater User | <input type="checkbox"/> Surface Water User |
| <input type="checkbox"/> Domestic Well Owner/User | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> Municipal Well Operator | <input type="checkbox"/> Native American Tribe |
| <input type="checkbox"/> Commercial/Industrial Groundwater User | <input type="checkbox"/> Disadvantaged Community Resident or Organization |
| <input type="checkbox"/> Public Water System | <input type="checkbox"/> City Resident |
| <input type="checkbox"/> Local Land Use Planning Agency | <input type="checkbox"/> Groundwater Monitoring Entity |
| <input type="checkbox"/> Environmental User | |

Cosumnes Subbasin SGMA Working Group Stakeholder Survey

Questions:

1. Are you familiar with the Sustainable Groundwater Management Act (SGMA) regulations?
2. Are you currently engaged in activities or discussions regarding groundwater management in this region?
3. Do you own or manage land in this region?
4. Where do you get your water supply?
 - City or Community Water System
 - Surface Water
 - Groundwater
 - Both Groundwater and Surface Water
 - Unknown
5. What is your primary interest in land or water resources management?
6. (For agricultural and domestic well owners/users): Are you willing to share the following data with the Working Group to support GSP development?¹ (check all that apply). Please provide as much information as you can on the attached data request forms.
 - Location
 - Total Depth
 - Screened Interval
 - Reference Point Elevation
 - Well Completion Report(s)
 - Pumping test report(s)
 - Water level data
 - Water quality data
 - Other: _____
7. (For agricultural and domestic well owners/users): Have any of your supply wells ever gone dry or otherwise been affected by declining water levels? If so, which wells and when?
8. Do you have concerns about groundwater management? If so, what are they?
9. Do you have recommendations that you would like the Working Group to consider while developing a GSP? If so, what are they?

¹ Documents and data can be sent to [\[GSA POC name\]](#) at [\[GSA POC email\]](#) or to [\[GSA POC\]](#) at [\[GSA POC mailing address\]](#)