

Questions for RFP Responders

Instructions: Please review the questions below and provide responses. If you think the question does not apply, please type N/A.

1. QA/QC What processes are in play for quality assurance and quality control for data?

The Groundwater Accounting Platform takes data input from a variety of sources, including remote sensed ET data, metered extractions, and GIS. Data can be imported via bulk uploaders, one record at a time, or automatically using system-to-system API integrations. All data is validated during import to ensure the data has the expected structure and that all required data is present. Data sources are combined within the Platform to create derived data products, such as calculating consumed groundwater from remote-sensed ET, delivered surface water, and precipitation. Maps and tables are provided to visualize outliers and any missing data, which can later be corrected directly in-system if needed.

2. Data Security How do you make sure that your data is securely shared and stored?

The Groundwater Accounting Platform includes a hierarchical role-based access control system that allows authorized users to access only their own data. Roles include Water Managers who are district staff that can see data for all water accounts, Account Holders who receive usage / billing statements and can view all data for their water accounts, and Account Viewers who have read-only access to water account data. Data is protected via username and password and stored in encrypted databases in a secure cloud environment.

3. Mobile Apps Does your product have a mobile applications or interface?

Yes, the Groundwater Accounting Platform includes a responsive user-interface that can be accessed on mobile devices including tablets, phones, and laptops. The Platform can integrate with mobile data collection devices to ingest data collected in the field such as meter readings.

4. Use by Other GSAs Please list any other Groundwater Sustainability Agencies (GSAs) using your products.

Active GSA users include: Merced-Irrigation Urban GSA, Merced Subbasin GSA, East Turlock Subbasin GSA, and the Rosedale-Rio Bravo Water Storage District. Demonstration of pilot GSA users include Yolo Flood Control and Water Storage District, a coalition of agencies in South Colusa / North Yolo subbasins, Pajaro Valley Water, and Paso Robles

Area Groundwater Authority. Additionally the Platform has been deployed for districts in Kansas and Nebraska.

- 5. NOAA** Are any of your satellites/data collection capabilities affected by the loss of weather prediction in NOAA data?

N/A – The Platform does not directly generate data from satellites, but rather ingests data from other providers. Those providers may be impacted by changes to NOAA data.

- 6. Crops** Is there a list of crops covered by either the ET data collection or platform service? If so, can the public see it?

The Platform can ingest and display any crop type through configurable interfaces. Crop types are dependent on available data providers.

7. Grower Accessible Platform:

- Does the platform have the ability to aggregate ET data over unique geospatial polygons provided by the GSA (fields)?
 - *Yes, the Platform supports accounting for ET and all other Water Measurements at the field-scale.*
- Does the platform have the ability for growers and /or the GSA to combine field polygons into larger management groups (farm units)?
 - *Yes, field-level data can be aggregated up to the Parcel, Farm Unit, GSA, and Basin scales.*
- Does the platform have the ability to display and compare groundwater allocation amounts to current groundwater use (budgets) by farm unit or grower account?
 - *Yes; allocations typically occur at the parcel / land ownership level. Usage is measured at the field-scale, allocations are managed at the parcel scale, and usage can be compared against allocations (supply) at the parcel and farm unit scales.*
- Does the platform have the ability to incorporate allocation adjustments provided by the GSA (recharge credits, surface water credits, carryover)?
 - *Yes, the Platform includes the ability to adjust both supply and usage manually. The types of water that required adjustments can be configured in the Platform by a Water Manager.*
- Does the platform have the hold grower-uploaded, geotagged photos?
 - *Yes, the Platform supports grower self-reporting of fallowing, surface water delivery, and meter data. Photos can be attached to any grower uploaded data.*
- Explain why your platform is the best.
 - *Our grower-centric user experience has been deployed and tested by thousands of growers across 10+ geographies*

- *Our Platform is fully configurable to align with GSA policies and preferences through user interfaces – we can show this quickly in a demonstration instance*
- *Through NGO partnerships and active grant funding ,the Groundwater Accounting Platform has received state and federal investment in scalability, user experience, support tools*
- *Our active user community meets regularly to inform the Platform roadmap, provides opportunities for capacity building for GSA staff and managers, and cost-sharing for adding new functionality*
- *The Groundwater Accounting Platform is open-source, which means the underlying technology is in the public domain and there is no vendor lock-in; GSAs can hire any consultant to configure and build on this Platform*

8. ET Data :

- a. Does your service calculate for ET? ETAW? If so, how does the calculation work (and why do you think it's the best). If not, where does the data come from?
 - i. N/A
- b. Can your firm's ET data be integrated into a groundwater accounting platform?
 - i. N/A
- c. Does your firm have the capability of providing ET data through an automated method (such as an API) to an accounting platform and at what frequency and with what delay factor?
 - i. N/A
- d. What is the expected accuracy of your calculation of ETAW, including its margin of error? Explain how the accuracy figure is calculated. Feel free to discuss "absolute accuracy" and accuracy relative to others. Quantify the improved accuracy.
 - i. N/A
- e. What details can be shared on how the data is validated?
 - i. N/A