# Monitoring to Maintain Sustainability in the Solano Subbasin

## The Importance of Groundwater

Groundwater is water below ground contained in formations known as aquifers, which supply significant quantities of water to wells and springs. Groundwater is a vital resource of water supply in the Solano Subbasin. Many residents, businesses, and farms rely on groundwater, as do natural habitats, including wildlife and fish. These water demands make it essential that we:

- Preserve the quality and availability of local and imported water supplies;
- Sustain groundwater supplies and meet water needs during drought conditions;
- Anticipate and avoid potential negative environmental effects due to groundwater use;
- Anticipate and avoid adverse changes in long-term groundwater availability and quality.

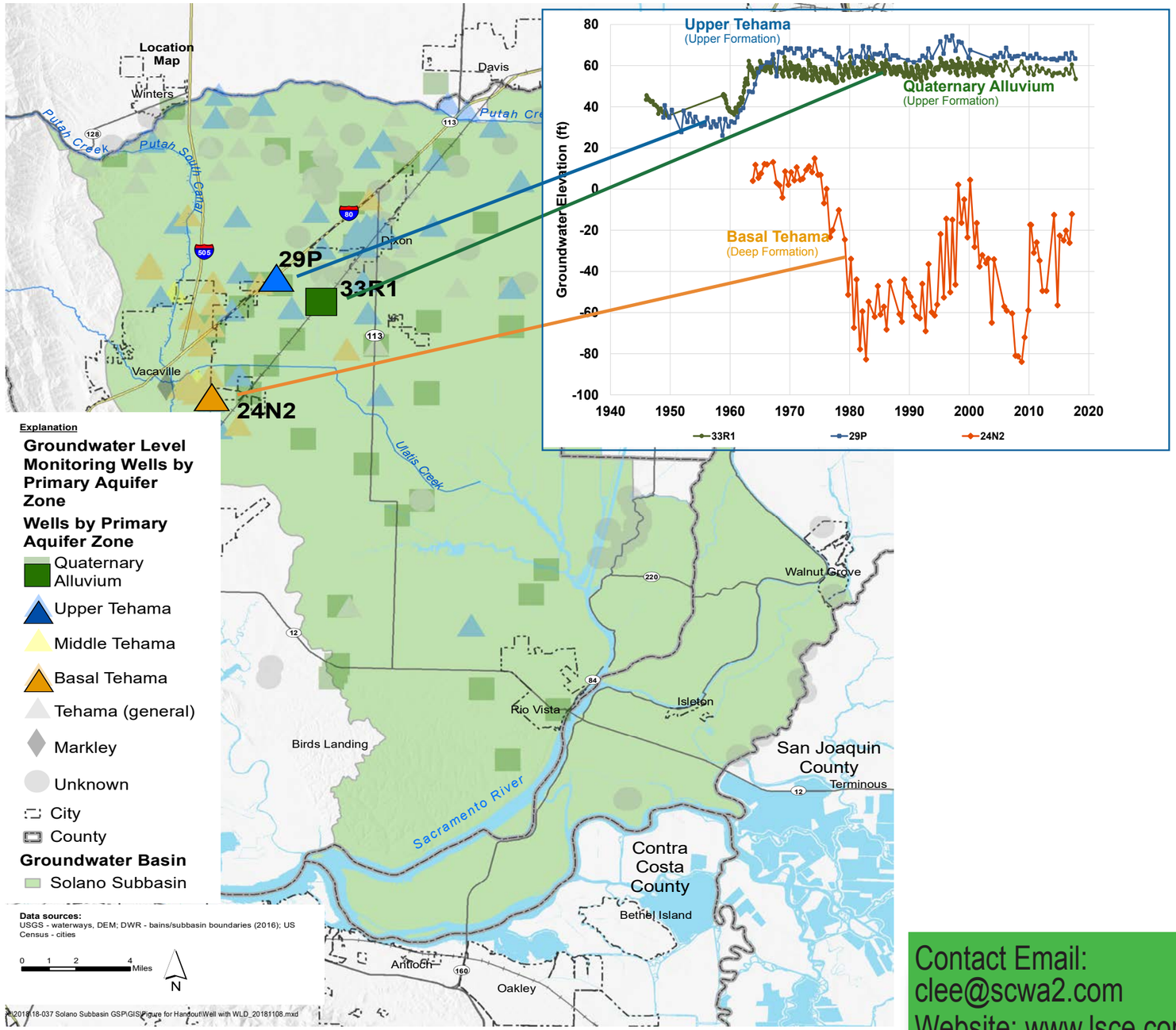
## What We Know

Counties and agencies within the Solano Subbasin have been monitoring groundwater resources for decades. Based on long-term data and recent studies, agencies within the Solano Subbasin continue to:

- Develop and implement better groundwater data collection procedures;
- Report on annual groundwater conditions and trends and;
- Implement actions in compliance with the Sustainable Groundwater Management Act (SMGA).

## What We Are Trying to Learn

- How does groundwater move through our aquifer system?
- What is the overall status of the groundwater aquifers within the subbasin?
- What are the amounts of loss and replenishment to creeks, rivers, and aquifers?
- What are the key relationships between groundwater and surface water in our creeks, rivers and other bodies of water?





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