

# Information Requirements for Sellers Proposing to Transfer Water Made Available Through Groundwater Substitution

**The following information should be submitted to the appropriate Project Agency for review and approval with any water transfer proposal based on groundwater substitution. The information should be submitted by March 1 of the transfer year.**

- Seller contact Information.
- Surface water source that will be replaced by groundwater pumping.
- Identify the surface water rights covering the proposed transfer and provide documentation demonstrating compliance with the California Environmental Quality Act or the State Water Resources Control Board approval process as appropriate.
- Location, construction details, and other relevant information for each proposed transfer well.
  - Well Identification: Well owner name and identification number, water district, and district's well identification number.
  - Well Location: Latitude and longitude (DWR standard coordinate system and datum (GCS, NAD 83, decimal degrees)), map (similar detail to 7.5 minute USGS quad sheet) with well location and all surface water features within two miles of District boundary.
  - Well Completion Report.
  - Well Construction: well depth, depth of annular surface seal, gravel pack interval(s), casing size, casing perforation interval, and well's construction method.
  - Geologic Log.
  - Estimated Well Capacity.
  - Photographic evidence of an instantaneous reading and totalizing flow meter installed on each participating well.
  - Certification by a Professional Engineer or Professional Geologist of flow meter installation consistent with the manufacturer's specifications and calibrated in accordance with Section 3.3.1, Item 4.b (link to template).
  - If applicable, for Project Agencies consideration, technical analysis that supports a streamflow depletion factor (SDF) other than a minimum of 13% and/or information sufficient to demonstrate that a well likely does not have a significant hydraulic connection to the surface water system tributary to the Delta according to the well acceptance criteria (Appendix D). For this specific information, it is recommended transfer proponents provide adequate time for Project Agency review and consideration.
  - Additional Information (If available): PG&E well pump efficiency test, independent well drawdown tests, water quality data, and/or site-specific studies with aquifer properties surrounding the well or extent of the well's hydrologic connection with any surface waters.

- Pump Power: Verification of an electric power source for each well, or if a pump is diesel or natural gas powered, verification of compliance with California Air Resources Board or local Air Pollution Control District Rules and Regulations.
- Schedule and volume of water to be pumped.
  - Proposed Operations: Description of the well's projected operation and the beneficial use of pumped groundwater.
- Baseline from which the additional groundwater pumping will be measured.
- Historic Operations: Operation records indicating the volume of groundwater pumped from each proposed transfer well for the three previous non-transfer years during the months when transfer pumping will occur; identify and document area(s) normally irrigated by wells.

Monitoring Program – submit the monitoring plan to the Project Agencies along with the transfer proposal. The seller shall begin monitoring groundwater levels in March of the transfer year.

- A monitoring well network that adequately covers the surface area and aquifer intervals within the affected pumping area. The Project Agencies recommend using dedicated monitoring wells to the maximum extent possible.
- Meter readings of instantaneous flow (gpm or cfs) and total discharge volume (af) at each of the transfer wells (collected as specified).
- Groundwater level measurements (collected as specified)
- Groundwater quality monitoring (when groundwater pumping is initiated, monthly during the transfer period, and at the termination of pumping).
- Method to detect land subsidence or a determination that land subsidence is unlikely to occur.
- Plans to coordinate data collection and cooperate with regional monitoring efforts.
- Data evaluation and reporting.

Mitigation Plan – submit a mitigation plan to the Project Agencies at the time the transfer proposal is submitted.

- A procedure for the seller to receive reports of purported environmental or local economic effects and to report that information to the Project Agencies and, as required, to local agencies.
- A procedure for investigating any reported effect.
- Development of mitigation options, in cooperation with the affected third parties, for legitimate effects.
- Assurances that adequate financial resources are available to cover reasonably anticipated mitigation needs.