



REQUIREMENTS FOR NEW PUBLIC WATER WELLS

- A Preliminary Technical Report shall be submitted to Nevada County Environmental Health prior to doing any water related construction to ensure the capability of obtaining a permit for a public water system. You can find guidance on the [Preliminary Technical Report](#) on the State Water Resources Control Board's website using the link below.

https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/permits/ptr_guidance_aug2021.pdf

- Submit to Environmental Health an application to construct a Class II well, applicable fees and the following for review (California Code of Regulations (CCR) Title 22 Section 64560(a)):
 - Documentation demonstrating that a well site control zone with all required set-backs can be established.
 - Design plans and specifications for the well.
 - Documentation required for compliance with the California Environmental Quality Act (CEQA).
- Well Construction Requirements (CCR Title 22 Section 64560(c)):
 - The well must be constructed in accordance with the public water system well requirements in California Department of Water Resources Bulletins 74-81 and 74-90. Construction features must include, but are not limited to the following:
 - Minimum of a 50 ft. annular surface seal extending at least 5 ft. into a consolidated layer. The Annular seal must have a minimum radial thickness of 3 inches.
 - The well head shall terminate a minimum of 18 inches above grade.
 - A casing vent shall be installed a minimum of 36 inches above finished grade, be inverted and screened.
 - Installation of a check valve downstream of the well head sample tap.
 - The pump pedestal shall be a minimum of 2 feet lateral in all directions, a minimum of 4 inches thick and the upper surface of the base shall slope away from the casing.
 - The well house shall be constructed to be secure and limit access to the well.
 - All equipment and materials must be NSF approved (CCR Title 22 Section 64590, 64591).
 - Be constructed in accordance with the American Water Works Association (AWWA) Standard A100-06 (Water Wells).
 - Be installed as per requirements in CCR Title 22 Section # 64560(c) (3) (A-E).
 - The well must have a flow meter installed between the source and the entry point to the distribution system (CCR Title 22 Section 64561).
- Well Capacity Test
 - Bedrock Formation
 - Provide this Department information required for review and approval prior to conducting the well capacity test as per CCR Title 22 Section # 64554(e):
 - Determine well capacity by one of the following methods:
 - Submit a report proposing well capacity based on well tests and the evaluation and management of the aquifer from which the well draws water (CCR Title 22 Section 64554(g)(1)).
 - Conduct a 72-hour well capacity test during the months of August – October as per CCR Title 22 Section #64554(g)(2)(A,C). The well capacity shall be twenty five percent of the pumping rate at the end of the completed test.
 - Conduct a 10 day well capacity test during the months of August – October as per CCR Title 22 Section #64554(g)(2)(B,C). The well capacity shall be fifty percent of the pumping rate at the end of the completed test.

- Each public water system applying for an initial domestic small public water system permit shall submit a major water plan check and applicable fees as per CCR Title 22 Section 64552. The application shall include the following:
 - A detailed project description.
 - [Domestic small Public Water System permit application](#).
 - A map and description of the entire existing and proposed service area.
 - The population, and number and type of residential, commercial, agricultural, and industrial service connections, in the system's projected service area.
 - Design drawings of proposed facilities drawn to scale, showing location, size, and construction material.
 - Well, storage and treatment data sheets if applicable.
 - As-built drawings of existing facilities.
 - The estimated Max Day Demand (MDD) and Peak Hourly Demand (PHD) as determined by a civil engineer with experience in water supply engineering.
 - A [source water assessment](#) and description of each source of water proposed for use.
 - Information that demonstrates how the system proposes to reliably meet four hours of PHD using available source capacity and distribution reservoirs.
 - [Technical, Managerial and Financial \(TMF\) Capacity Assessment](#).
 - Well completion report.
 - Copy of the source capacity test (see above).
 - [Bacteriological Sample Site Plan](#).
 - [Emergency Notification Plan](#).
 - Bacteriological and Chemical water quality tests as per CCR Title 22.
 - As-built plans
 - [Certificate of Operation Application](#)