



COUNTY OF NEVADA COMMUNITY DEVELOPMENT AGENCY

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REQUIREMENTS FOR NEW PUBLIC WATER WELLS

Prior to issuance of a Permit to Construct A Small Diameter Well:

- Submit to this Department 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 setbacks can be established.
 - Design plans and specifications for the well.
 - Documentation required for compliance with the California Environmental Quality Act (CEQA).
- Each public water system applying for an initial domestic public water system permit must submit a permit application and applicable fees as per *CCR Title 22 Section 64552*. The application must include the following:
 - A detailed project description.
 - 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.
 - As-built drawings of existing facilities.
 - The estimated MDD and PHD.
 - 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.

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.
 - Installation of a casing vent and air release vent.
 - Installation of a check valve downstream of the well head sample site.
 - 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.

Once the well is completed and prior to approval for a permit to operate a domestic public water system, submit the following:

- Technical, Managerial and Financial (TMF) Capacity Assessment. For assistance, visit the website at: <http://www.cdph.ca.gov/certlic/drinkingwater/Pages/TMF.aspx>
- Well completion report.
- Copy of the pump test (see above).
- Bacteriological Sample Site Plan.
- Emergency Notification Plan.
- Bacteriological and Chemical water quality tests as per CCR Title 22.
- As-built plans

REFERENCES

California Code of Regulations (CCR):

<http://ww2.cdph.ca.gov/certlic/drinkingwater/Documents/Lawbook/dwregulations-01-01-2009.pdf>

California Well Standards (Bulletin 74-81 and 74-90):

http://www.dpla.water.ca.gov/sd/groundwater/california_well_standards/wws/wws_combined_sec9.html

American Water Works Association Standards:

<http://www.awwa.org/>