

RULE 142 - WATER EFFICIENCY STANDARDS

A. Water Efficiency Standards.

1. All Sites supplied with water from a Water Distribution System regulated by the District shall comply with these standards.
2. All New Construction of New Structures shall install and maintain plumbing fixtures and conservation standards as set forth in this Rule.
3. No plumbing fixture shall be replaced with fixtures which allow greater water use.
4. All new and replacement water fixtures shall comply with then-current California plumbing and energy standards/codes when more restrictive than the District's.
5. Manufactured Homes shall be subject to these standards.

B. Former Rules. Water Permit requirements change periodically to reflect current efficiencies. Sites with uncompleted Water Permits that have not received a final inspection shall at a minimum comply with the requirements in place at the time the Water Permit was issued unless required to install more efficient fixtures as a result of a subsequent triggering event (e.g. new/amended Water Permit or Change of Ownership/ Use).

C. Residential Water Efficiency Standards for New Structures.

All Residential New Structures receiving a Water Permit, shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals, when installed in a Residential use, shall be designed to flush with one (1) gallon of water. After January 1, 2016, newly installed Urinals shall flush with no more than 0.125 gallon per flush;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
5. High Efficiency Clothes Washer(s) and High Efficiency Dishwasher(s) shall be required when installed in a Residential use;
6. Lavatory Sink faucets shall emit a maximum of 1.2 gallons of water per minute at 60 psi;

7. Kitchen Sink, Utility Sink, and Bar Sink faucets shall emit a maximum of 1.8 gallons of water per minute at 60 psi. Faucets may have the capability to temporarily increase flow to 2.2 gallons per minute for filling pots and pans, but must default back to a maximum Flow Rate of 1.8 gallons per minute measured at 60 psi;
8. Instant-Access Hot Water Systems shall be installed;
9. All hot water pipes shall be insulated;
10. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be re-charged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
11. Landscaping. All New Construction (including new buildings with landscape or other new landscape, such as a park, playground, or Greenbelt without an associated building) shall install and maintain landscapes that comply with Rule 142.1.
12. Rainwater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.
13. Graywater collection/Irrigation Systems are encouraged to supplement irrigation for new Landscaping. Systems must be compliant with local catchment system standards, including Monterey County Environmental Health Bureau.
14. All Sites utilizing a Graywater reuse system shall install and maintain a Backflow Prevention Device as required by any Water Distribution System Operator that supplies water to the Site.

D. Non-Residential Water Efficiency Standards for New Structures.

All Non-Residential New Structures receiving a Water Permit shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals shall be Pint Urinals or Zero Water Consumption Urinals and shall be clearly specified on the final Construction Drawings. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
3. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and

- manufactured to emit a maximum of 2.0 gallons per minute of water;
4. All shower fixtures should be equipped with scald protection valves rated for 2.0 gallons per minute Showerheads;
 5. Public Washbasins shall emit a maximum of 0.5 gallon of water per minute at 60 psi. Private Washbasins (e.g. hotel or motel guest rooms and hospital patient rooms) shall emit a maximum of 1.2 gallons of water per minute at 60 psi. All other sinks shall emit a maximum of 2.2 gallons of water per minute at 60 psi unless higher flow is required by Health and Safety Code;
 6. Public Washbasins equipped with automatic shut off devices or sensor faucets shall operate with a maximum flow of 0.25 gallons per cycle;
 7. High Efficiency Clothes Washers shall be installed when a Clothes Washer is installed in a New Structure permitted under this Regulation;
 8. High Efficiency Dishwashers or High Efficiency Commercial Dishwashers shall be installed and maintained on the Site when a Dishwasher is installed in a New Structure permitted by a Water Permit;
 9. Instant-Access Hot Water System(s) shall be installed for hot water access points to ensure that hot water is available within ten (10) seconds;
 10. All hot water pipes shall be insulated;
 11. Sodium chloride (salt) water softeners shall be discouraged in New Construction. Alternate technologies, such as potassium chloride shall be recommended. When a sodium chloride water softener is to be installed within the MPWMD, the unit shall use demand-initiated regeneration which senses when the resin must be recharged, either electronically or with a meter that measures and calculates usage. This requirement shall be specified on the Construction Drawings;
 12. Water Efficient Pre-Rinse Spray Valves shall be utilized when a pre-rinse spray valve is installed;
 13. There shall be no single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
 14. Water cooled refrigeration equipment shall be prohibited when there is alternative cooling technology available at the time the Water Permit is issued;
 15. Cooling Towers shall be equipped with conductivity controllers that are used to increase the number of cycles that can be achieved;

16. Boilerless steamers or connectionless steamers shall be installed in place of boiler-based steamers when a steamer is installed in New Construction;
17. Landscaping. All New Construction (including new buildings with landscape or other new landscape, such as a park, playground, or Greenbelt without an associated building) shall install and maintain landscapes that comply with Rule 142.1.
18. Rainwater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. New Structures shall be encouraged to include one or more rainwater Cisterns and a system to provide at least 75 percent of exterior irrigation during normal rainfall years. Systems must be compliant with local catchment system standards.
19. Graywater collection/Irrigation Systems are encouraged to supplement irrigation for new landscaping. Systems must be compliant with local catchment system standards, including Monterey County Environmental Health Bureau.
20. All Sites utilizing a Graywater reuse system shall install and maintain a Backflow Prevention Device as required by any Water Distribution System Operator that supplies water to the Site.
21. The implementation of water conservation Best Management Practices shall be integrated into construction and operation of the project to the extent possible.
22. The use of Alternative Water Sources for indoor toilet flushing and other uses allowed by the Jurisdiction shall be encouraged.
23. Visitor-Serving and Public and Quasi-Public Facilities shall display in visible locations in all restrooms, kitchens, and dining areas, placards or decals approved by the District promoting public awareness of the need for water conservation and/or advising the public that waste of water is prohibited.
24. The owner and/or manager of rental property shall provide current and new tenants with information about the water conservation requirements, including the Water Waste and Non-Essential Water Use regulations of the District. This information shall be readily accessible on a tenant portal website with annual notification of its presence, or when notice is not provided electronically, the owner and/or manager shall annually provide written information to existing tenants and to new tenants as they move in.
25. Visitor-Serving Facilities shall promote towel and linen reuse programs by providing written notice in the rooms, whereby towels and linens are changed every three days or as requested by action of the guest.
26. Visitor-Serving Facilities shall provide written notice that drinking water is available only upon request. Notification of this requirement shall be provided on

the table(s) or menu(s) of each facility. Visitor-Serving Facilities shall not provide drinking water from the Monterey Peninsula Water Resource System at the table unless specifically requested.

27. Facilities utilizing alternative sources of irrigation water (i.e. purified recycled water, Non-Potable Water, rainwater and Graywater, etc.) shall be encouraged to provide notice of the alternative supply, either by erecting a sign in compliance with local codes or by identifying the alternative supply in other venues such as in newsletters, websites, menus, etc.

E. Residential and Non-Residential Change of Ownership, Change of Use, and Expansion of Use Water Efficiency Standards

Sites that have a Change of Ownership, or receive a Water Permit for a Change of Use or Expansion of Use or shall meet or exceed the following standards:

1. High Efficiency or Ultra High Efficiency Toilets shall be installed;
2. Urinals shall be at a minimum High Efficiency Urinals (when installed prior to January 1, 2016). Newly installed Urinals shall be Pint Urinals or Zero Water Consumption Urinals. Zero Water Consumption Urinals shall be encouraged in settings where there is a regular maintenance staff;
3. Showerhead Flow Rates shall meet or exceed water efficiency standards for New Structures;
4. Bathroom faucet Flow Rates shall meet or exceed water efficiency standards for New Structures;
5. Kitchen faucet Flow Rates shall meet or exceed water efficiency standards for New Structures;
6. Remodels or relocations of water fixtures or appliances that involve hot water shall be encouraged to install an Instant-Access Hot Water System and insulate all new hot water pipes;
7. Pre-rinse spray valves shall meet or exceed the District's definition for Water Efficient Pre-Rinse Spray Valves;
8. Changes of Use and Expansions of Use that require a Water Permit shall not install any single-pass water use systems in ice machines, hydraulic equipment, refrigeration condensers, X-ray processing equipment, air compressors, vacuum pumps, etc. Air-cooled or better technology shall be installed when available;
9. Changes of Use and Expansions of Use that require a Water Permit shall not install any water cooled refrigeration equipment when there is alternative water efficient cooling technology available at the time the Water Permit is issued;

10. Automatic Irrigation Systems, with the exception of Weather- Based Irrigation Systems, shall be retrofit to include a Rain Sensor;
 11. The implementation of Non-Residential Best Management Practices shall be integrated into construction and operation of Non-Residential uses to the extent possible;
 12. Projects that include Rehabilitated Landscapes (modified Landscape Area is equal to or greater than two thousand five hundred (2,500) square feet) shall comply with Rule 20-B and Rule 142.1
- F. Water Efficiency Standards for Multi-Family Residential Sites and Common Interest Developments:
1. Multi-Family Residential Sites and Common Interest Developments with four or more Dwelling Units, shall meet or exceed the following water efficiency standards before January 1, 2019¹:
 - a. High Efficiency or Ultra High Efficiency Toilets shall be installed. Multi-Family Residential Sites and Common Interest Developments with Ultra-Low Flush Toilets installed prior to January 1, 2014, shall be exempt from this toilet retrofit requirement.;
 - b. Urinals shall be at a minimum High Efficiency Urinals (if installed prior to January 1, 2016). Newly installed Urinals shall be Pint Urinals or Zero Water Consumption Urinals;
 - c. Showerheads, Rain Bars, or Body Spray Nozzles must be designed and manufactured to emit a maximum of 2.0 gallons per minute of water at 60 psi;
 - d. Washbasin faucets shall emit a maximum of 1.2 gallons of water per minute at 60 psi;
 - e. Kitchen Sink, Utility Sink, and Bar Sink faucets shall emit a maximum of 1.8 gallons of water per minute at 60 psi. Faucets may have the capability to temporarily increase flow to 2.2 gallons per minute for filling pots and pans, but must default back to a maximum Flow Rate of 1.8 gallons per minute measured at 60 psi;
 - f. Common Laundry Rooms. By January 1, 2019 all Clothes Washers installed in Common Laundry Rooms within the District shall meet the definition of High Efficiency Clothes Washer rated with a Water Factor of 5.0. Washer/extractors that do not comply with the 5.0 Water

¹ Individually owned condominiums and cooperatives that are subject to Rule 142-E shall be exempt from this requirement.

Factor shall be programmed by a manufacturer/vendor technician to only function on the low water setting (non-user selected setting). A written statement shall be provided to MPWMD by the manufacturer/vendor's technician stating that the machines have been programmed to only use the low water setting and that there is no way to manipulate the water usage via a user setting. This statement shall be maintained by MPWMD.

- g. Clothes Washers located inside Dwelling Units should be encouraged to replace Clothes Washers with High Efficiency Clothes Washers;
 - h. Water Pressure Regulating Devices shall be installed and maintained to maintain water pressure between 50 and 65 psi.
 - i. Automatic Irrigation Controllers properly adjusted to adhere to the District's Stage 1 Water Conservation Requirements (Rule 162) shall be installed, used, and maintained.
2. The owner (or his authorized agent) of a Multi-Family Residential Site or Common Interest Development manager shall certify compliance with this regulation by one of the following methods:
- a. Provide the District with a District-certified inspection report that provides all Site information required by the District and that verifies installation of Low Water Use Plumbing Fixtures throughout the Site, as required by Regulation XIV and Regulation XV; or
 - b. Provide documentation to the District from a District-certified city or county building official that provides all Site information required by the District and that certifies installation of Low Water Use Plumbing Fixtures throughout the Site, as required by Regulation XIV and Regulation XV; or
 - c. Provide owner/association certification that plumbing fixtures throughout the Site have been retrofitted in compliance with Regulation XIV and Regulation XV. The owner, his authorized agent, or CID manager shall forward a copy of this certification, together with a dated copy of the purchase receipt for each Low Water Use Plumbing Fixture and a dated copy of the labor contract or a statement of self-installation which evidences complete installation to the District. The District may verify certification by an onsite inspection.

Rule added by Ordinance No. 30 (7/13/87); amended by Ordinance No. 71 (12/20/1993); Ordinance No. 125 (9/18/2006); Ordinance No. 141 (11/16/2009); Ordinance No. 151 (11/19/2012); Ordinance No. 170 (5/16/2016); Ordinance No. 172 (8/15/2016); Ordinance No. 177 (9/18/2017); Ordinance No. 178 (11/13/2017); Ordinance No. 182 (5/20/2019)