

Appendix J: Tariff Rule 14.1 Water Conservation and Rationing Plan, and Local Conservation Ordinances

- Tariff Rule and Schedule 14.1
- Atherton Landscaping Plan Requirements
- Atherton Municipal Code Water Efficiency Landscape Ordinance
- Menlo Park Water Efficiency Landscaping Ordinance
- Menlo Park Water Regulations
- Portola Valley Indoor Water Conservation Ordinance
- Portola Valley Outdoor Water Conservation Ordinance

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Cal. P.U.C. Sheet No. 10202 -W

Rule No. 14.1

WATER SHORTAGE CONTINGENCY PLAN (continued)

(Page 1)

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A. APPLICABILITY

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- 1. This schedule applies to all of California Water Service’s regulated ratemaking areas in California, as well as Grand Oaks Water.

B. GENERAL INFORMATION

- 1. All expenses incurred by utility to implement Rule 14.1, and Schedule 14.1, and requirements of the California State Water Resources Control Board (“Water Board”) that have not been considered in a General Rate Case or other proceeding shall be accumulated by Cal Water in a separate memorandum account, authorized in Resolution W-4976, for disposition as directed or authorized from time to time by the Commission.
- 2. To the extent that a Stage of Mandatory Water Use Restrictions in Schedule 14.1 has been activated, and a provision in this Rule is inconsistent with the activated Stage in Schedule 14.1, the provisions of Schedule 14.1 apply.

C. DEFINITIONS

For the purposes of this Rule, the following terms have the meanings set forth in this section.

- 1. “Commercial nursery” means the use of land, buildings or structures for the growing and/or storing of flowers, fruit trees, ornamental trees, vegetable plants, shrubs, trees and similar vegetation for the purpose of transplanting, for use as stock or grafting, and includes the retail sale or wholesale distribution of such items directly from the premises/lot.
- 2. “Drip irrigation system” means a non-spray, low-pressure, and low volume irrigation system utilizing emission devices with a precipitation or flow rate measured in gallons per hour (GPH), designed to slowly apply small volumes of water at or near the root zone of plants or other landscaping.
- 3. “Flow rate” means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute (GPM), gallons per hour (GPH), inches per hour (IPH), hundred cubic feet (Ccf), or cubic feet per second (CFS).
- 4. “Flow-restricting device” means valves, orifices, or other devices that reduce the flow of potable water through a service line, which are capable of passing a minimum of 3 Ccf per person, per month, based upon the U.S. Census calculation of the average number of people in a household in the area.
- 5. “High-efficiency sprinkler systems” means an irrigation system with emission devices, such as sprinkler heads or nozzles, with a precipitation or flow rate no greater than one IPH.
- 6. “Irrigation” means the application of potable water by artificial means to landscape.
- 7. “Irrigation system” means the components of a system meant to apply water to an area for the purpose of irrigation, including, but not limited to, piping, fittings, sprinkler heads or nozzles, drip tubing, valves, and control wiring.
- 8. “Landscape” means all of the outdoor planting areas, turf areas, and water features at a particular location.
- 9. “Measureable rainfall” means any amount of precipitation of more than one-tenth of an inch (0.1”).
- 10. “Micro spray irrigation system” means a low-pressure, low-volume irrigation system utilizing emission devices that spray, mist, sprinkle, or drip with a precipitation or flow rate measured in GPH, designed to slowly apply small volumes of water to a specific area.

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Rule No. 14.1

WATER SHORTAGE CONTINGENCY PLAN (continued)

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C. DEFINITIONS (Continued)

- 11. "Ornamental landscape" means shrubs, bushes, flowers, ground cover, turf, lawns, and grass planted for the purpose of improving the aesthetic appearance of property, but does not include crops or other agricultural products or special landscape areas.
- 12. "Ornamental turf" means a ground cover surface of grass that can be mowed and is planted for the purpose of improving the aesthetic appearance of the property, but does not include crops or other agricultural products or special landscape areas.
- 13. "Plumbing fixture" means a receptacle or device that is connected to a water supply system, including, but not limited to, pipes, toilets, urinals, showerheads, faucets, washing machines, water heaters, tubs, and dishwashers.
- 14. "Potable water" means water supplied by Cal Water which conforms to the federal and state standards for human consumption.
- 15. "Properly programmed" means a smart irrigation controller that has been programmed according to the manufacturer's instructions and site-specific conditions.
- 16. "Real-time water measurement device" means a device or system that provides regularly updated electronic information regarding the customer's water use.
- 17. "Runoff" means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape onto other areas.
- 18. "Smart irrigation controller" means an automatic device used to remotely control valves that operate an irrigation system that has been tested by an American National Standards Institute accredited third-party certifying body or laboratory in accordance with the Environmental Protection Agency's WaterSense program (or an analogous successor program), and certified by such body or laboratory as meeting the performance and efficiency requirements of such program, or the more stringent performance and efficiency requirements of another similar program.
- 19. "Special landscape area" means an area of the landscape dedicated solely to edible plants and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a playing surface.
- 20. "Turf" means a ground cover surface of grass that can be mowed.
- 21. "Water feature" means a design element where open, artificially supplied water performs an aesthetic or recreation feature, including, but not limited to, ponds, lakes, waterfalls, fountains, and streams.
- 22. "Water use evaluation" means an evaluation of the efficiency of indoor water-using devices, including, but not limited to, measurement of flow rates for all existing showerheads, faucets, and toilets, inspection for leaks, and providing written recommendations to improve the efficiency of the indoor water-using fixtures and devices and/or an evaluation of the performance of an irrigation system, including, but not limited to, inspection for leaks, reporting of overspray or runoff, and providing written recommendations to improve the performance of the irrigation system.

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Rule No. 14.1

WATER SHORTAGE CONTINGENCY PLAN (continued)

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D. ENFORCEMENT

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Each Stage of this Rule establishes certain restrictions on the use of potable water. Violating the restrictions set forth in a particular Stage while it is in effect is declared a non-essential, wasteful use of potable water. Subject to the schedule and conditions outlined below, Cal Water is authorized to install a flow-restricting device on the service line of any customer when its personnel verify a customer is using potable water for non-essential, wasteful uses. No person shall have any right or claim in law or in equity, against Cal Water because of, or as a result of, any matter or thing done or threatened to be done pursuant to the restrictions on using potable water for non-essential, wasteful uses.

1. **FIRST VIOLATION:** Cal Water shall provide the customer with a written notice of violation.
2. **SECOND VIOLATION:** If Cal Water verifies that the customer has used potable water for non-essential, wasteful uses after having been notified of the first violation, Cal Water shall provide the customer with a second written notice of violation and is authorized to install a flow-restricting device on the customer's service line. Cal Water shall not be held liable for any injuries, damages, and/or consequences arising from the installation of a flow restricting device.
3. **NOTICES OF VIOLATION:**
 - A. Written notices of violation provided to customers pursuant to this Rule shall document the verified violation and alert the customer to the fact that future violations of the restricted uses of potable water may result in the installation of a flow-restricting device on the customer's service line or the discontinuation of the customer's service.
 - B. If Cal Water elects to install a flow-restricting device on a customer's service line, the written notice of violation shall explain that a flow-restricting device has or will be installed on the customer's service line, document the steps the customer must take in order for the flow-restricting device to be removed, and explain that after the flow-restricting device is removed, it may be reinstalled, without further notice, if the customer is again verified by Cal Water's personnel to be using potable water for non-essential, wasteful uses.
4. **FLOW RESTRICTING DEVICE CONDITIONS:** The installation of a flow-restricting device on a customer's service line is subject to the following conditions:
 - a. The device shall be capable of providing the premise with a minimum of 3 Ccf per person, per month, based upon the U.S. Census calculation of the average number of people in a household in the area.
 - b. The device may only be removed by Cal Water, and only after a minimum three-day period has elapsed.
 - c. Any tampering with the device may result in the discontinuation of the customer's water service and the customer being charged for any damage to Cal Water's equipment or facilities and any required service visits.

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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D. ENFORCEMENT (Continued)

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d. After the removal of the device, if Cal Water verifies that the customer is using potable water for non-essential, wasteful uses, Cal Water may install another flow-restricting device without prior notice. This device may remain in place until water supply conditions warrant its removal. If, despite the installation of the device, Cal Water verifies that the customer is using potable water for non-essential and, unauthorized wasteful uses, then Cal Water may discontinue the customer's water service, as provided in its Rule No. 11.

5. **FLOW-RESTRICTING DEVICE REMOVAL CHARGES:** The charge to customers for removal of a flow-restricting device installed pursuant to this Rule is \$100 during normal business hours, and \$150 for the device to be removed outside of normal business hours.

E. WASTEFUL USES OF WATER

Except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency, customers are prohibited, at all times, from using potable water for the following actions, as each is declared a non-essential, wasteful use of water:

1. Use of potable water through a broken or defective plumbing fixture or irrigation system when Cal Water has notified the customer in writing to repair the broken or defective plumbing fixture or irrigation system, and the customer has failed to effect such repairs within seven (7) business days of receipt of such notice;
2. The application of potable water to landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;
3. The use of a hose that dispenses potable water to wash vehicles, including cars, trucks, buses, boats, aircraft, and trailers, whether motorized or not, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.

F. MANDATORY STAGED RESTRICTIONS OF WATER USE

1. **ADOPTION OF STAGED MANDATORY RESTRICTIONS:** Cal Water may implement the following staged mandatory restrictions of water use, after notifying the Director of the Commission's Division of Water and Audits (DWA), by a Tier 1 advice letter in both hard-copy and emailed formats, of Cal Water's intent to implement a particular stage, if:

- a. Water supplies are projected to be insufficient to meet normal customer demand by Cal Water; or
- b. A water supply shortage or threatened shortage exists; or
- c. Water supplies are curtailed by a wholesale water supplier; or
- d. Directed to do so under a duly adopted emergency regulation by the Commission or other authorized government agencies.

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

- 2. **PUBLIC NOTICE:** Thirty (30) days prior to implementing a mandatory staged reduction in water use in this Rule, Cal Water shall notify its customer of the requirements of the particular stage implemented by Cal Water by bill insert, direct mailing, email, or bill message directing the customer to additional information on Cal Water's website.
- 3. **STAGE 1 WATER SHORTAGE:** A Stage 1 Water Shortage occurs when Cal Water, the Commission, a wholesale water supplier, or other authorized government agency determines that measures are needed to reduce water consumption by customers served by public water suppliers. In addition to the prohibitions outlined in **Section E**, the following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency:
 - a. Outdoor Irrigation Restrictions (Stage 1)
 - i. Irrigating ornamental landscapes with potable water is limited to no more than **three (3) days** per week, on a schedule established and posted by Cal Water on its website or otherwise provided to customers by bill message, bill insert, direct mail, or email, or as follows:
 - 1. Customers with even-numbered addresses may irrigate on Saturdays, Tuesdays, and Thursdays.
 - 2. Customers with odd-numbered addresses may irrigate on Sundays, Wednesdays, and Fridays.
 - 3. Customers without a street address may irrigate on Saturdays, Tuesdays, and Thursdays.
 - 4. Notwithstanding the foregoing restrictions, irrigation of special landscape areas or commercial nurseries may occur as needed, provided that the customer who wishes to irrigate a special landscape area or commercial nursery presents Cal Water with a plan to achieve water use reductions commensurate with those that would be achieved by complying with foregoing restrictions.
 - 5. Notwithstanding the foregoing restrictions, when a city, county, or other local public agency in one of Cal Water's service areas duly adopts restrictions on the number of days or hours of the day that customers may irrigate which are different than those adopted by Cal Water, Cal Water may enforce the city, county, or other local public agency's restrictions.
 - ii. Irrigating ornamental landscape with potable water is prohibited during the hours between **8:00 a.m. and 6:00 p.m.**
 - iii. The foregoing restrictions do **not** apply to:
 - 1. Landscape irrigation zones that exclusively use drip irrigation systems and/or micro spray irrigation system;

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 1 (cont.)]

- 2. Irrigating ornamental landscapes with the use of a hand-held bucket or similar container, with a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored, or for the express purpose of adjusting or repairing an irrigation system.
- b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the customer's plumbing fixture(s) or irrigation system(s) must be repaired within **five (5) business days** of written notification by Cal Water, unless other arrangements are made with Cal Water.
- c. **Prohibited Uses of Water:** Customers are prohibited from using potable water for the following actions:
 - i. The application of potable water to driveways and sidewalks;
 - ii. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - iii. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall.
- d. Other duly adopted restrictions on the use potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.
- 4. **STAGE 2 WATER SHORTAGE:** A Stage 2 Water Shortage occurs when the Stage 1 Water Shortage restrictions are deemed insufficient to achieve identified water use goals established by Cal Water, the Commission, a wholesale water supplier, or other authorized government agency. In addition to the prohibited wasteful water use practices listed in Section D, the following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency. Differences from or additions to the previous Stage are underlined.
 - a. **Outdoor Irrigation Restrictions (Stage 2)**
 - i. Irrigating ornamental landscapes with potable water is limited to no more than **three (3) days** per week, on a schedule established and posted by Cal Water on its website or otherwise provided to customers by bill message, bill insert, direct mail, or email, or as follows:
 - 1. Customers with even-numbered addresses may irrigate on Saturdays, Tuesdays, and Thursdays.
 - 2. Customers with odd-numbered addresses may irrigate on Sundays, Wednesdays, and Fridays.

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 2 (cont.)]

3. Customers without a street address may irrigate on Saturdays, Tuesdays, and Thursdays.
 4. Notwithstanding the foregoing restrictions, irrigation of special landscape areas or commercial nurseries may occur as needed, provided that the customer who wishes to irrigate a special landscape area or commercial nursery presents Cal Water with a plan to achieve water use reductions commensurate with those that would be achieved by complying with foregoing restrictions.
 5. Notwithstanding the foregoing restrictions, when a city, county, or other public agency in one of Cal Water's service areas duly adopts restrictions on the number of days or hours of the day that customers may irrigate which are different than those adopted by Cal Water, Cal Water may enforce the city, county, or other local public agency's restrictions.
- ii. Irrigating ornamental landscape with potable water is prohibited during the hours between **8:00 a.m. and 6:00 p.m.**
 - iii. The foregoing restrictions do **not** apply to:
 1. Landscape irrigation zones that exclusively use drip irrigation systems and/or micro spray irrigation system;
 2. Irrigating ornamental landscapes with the use of a hand-held bucket or similar container, a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored, or for the express purpose of adjusting or repairing an irrigation system.
 - b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the customer's plumbing fixture(s) or irrigation system(s) must be repaired within **three (3) business days** of written notification by Cal Water, unless other arrangements are made with Cal Water.
 - c. **Prohibited Uses of Water:** Customers are prohibited from using potable water for the following actions:
 - i. The application of potable water to driveways and sidewalks;
 - ii. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - iii. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall;
 - iv. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 2 (cont.)]

- v. Irrigation of ornamental landscape on public street medians;
 - vi. Irrigation outside of newly constructed homes and buildings with potable water in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.
 - d. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.
 - e. Limits on Filling Ornamental Lakes or Ponds: Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Rule.
 - f. Other duly adopted restrictions on the use of potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.
5. STAGE 3 WATER SHORTAGE: A Stage 3 Water Shortage occurs when the Stage 2 Water Shortage restrictions are deemed insufficient to achieve identified water use goals established by Cal Water, the Commission, a wholesale water supplier, or other authorized government agency. In addition to the prohibited wasteful water use practices listed in Section D, the following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency. Differences from or additions to the previous Stages are underlined.

a. Outdoor Irrigation Restrictions

- i. Irrigating ornamental landscapes with potable water is limited to no more than **two (2) days** per week, on a schedule established and posted by Cal Water on its website or otherwise provided to customers by bill message, bill insert, direct mail, or email, or as follows:
 1. Customers with even-numbered addresses may irrigate on Saturdays and Tuesdays (previous Stages allowed Thursdays as well).
 2. Customers with odd-numbered addresses may irrigate on Sundays and Wednesdays (previous Stages allowed Fridays as well).
 3. Customers without a street address may irrigate on Saturdays and Tuesdays (previous Stages allowed Thursdays as well).

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 3 (cont.)]

4. Notwithstanding the foregoing restrictions, irrigation of special landscape areas or commercial nurseries may occur as needed, provided that the customer who wishes to irrigate a special landscape area or commercial nursery presents Cal Water with a plan to achieve water use reductions commensurate with those that would be achieved by complying with foregoing restrictions.
5. Notwithstanding the foregoing restrictions, when a city, county, or other local public agency in one of Cal Water's service areas duly adopts restrictions on the number of days or hours of the day that customers may irrigate which are different than those adopted by Cal Water, Cal Water may enforce the city, county, or other local public agency's restrictions.
- ii. Irrigating ornamental landscape with potable water is prohibited during the hours between **8:00 a.m. and 6:00 p.m.**
- iii. The foregoing restrictions do **not** apply to:
 1. Landscape irrigation zones that exclusively use drip irrigation systems and/or micro spray irrigation system;
 2. Irrigating ornamental landscapes with the use of a hand-held bucket or similar container, a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored, or for the express purpose of adjusting or repairing an irrigation system.
- b. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the customer's plumbing fixtures and/or irrigation system must be repaired within **two (2) business days** of written notification by Cal Water, unless other arrangements are made with Cal Water.
- c. **Prohibited Uses of Water:** Customers are prohibited from using potable water for the following actions:
 - i. The application of potable water to driveways and sidewalks;
 - ii. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - iii. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall;
 - iv. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;
 - v. Irrigation of ornamental turf on public street medians;
 - vi. Irrigation outside of newly constructed homes and buildings with potable water in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.
 - vii. Use of potable water for street cleaning with trucks, except for initial wash-down for construction purposes (if street sweeping is not feasible);

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 3 (cont.)]

- viii. Use of potable water for construction purposes, such as consolidation of backfill, dust control, or other uses unless no other source of water or other method can be used.
 - d. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.
 - e. Limits on Filling Ornamental Lakes or Ponds: Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Rule.
 - f. Other duly adopted restrictions on the use of potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.
6. STAGE 4 WATER SHORTAGE: A Stage 4 Water Shortage occurs when the Stage 3 Water Shortage restrictions are deemed insufficient to achieve identified water use goals established by Cal Water, the Commission, a wholesale water supplier, or other authorized government agency. In addition to the prohibited wasteful water use practices listed in Section D, the following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency. Differences from or additions to the previous Stage are underlined.
- a. Irrigating ornamental landscape with potable water is prohibited, except when a hand-held bucket or a similar container, or a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored is used to maintain vegetation, including trees and shrubs.
 - b. Obligation to Fix Leaks, Breaks or Malfunctions: All leaks, breaks, or other malfunctions in the customer's plumbing fixtures or irrigation system must be repaired within **one (1) business day** of written notification by Cal Water, unless other arrangements are made with Cal Water.

Prohibited Uses of Water: Customers are prohibited from using potable water for the following actions:

- i. The application of potable water to driveways and sidewalks;
- ii. The use of potable water in a water feature, except where the water is part of a recirculating system;
- iii. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall;

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WATER SHORTAGE CONTINGENCY PLAN (continued)

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F. MANDATORY STAGED RESTRICTIONS OF WATER USE (Continued)

[Stage 4 (cont.)]

iv. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;

[Note that items previously identified as (v) and (vi) in Stage 3 have been eliminated.]

v. Use of potable water for street cleaning with trucks (the previous Stage allowed certain exceptions);

vi. Use of potable water for construction purposes, such as consolidation of backfill, dust control, or other uses (the previous Stage allowed certain exceptions).

c. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.

d. Limits on Filling Ornamental Lakes or Ponds: Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Rule.

f. Other duly adopted restrictions on the use of utility-supplied potable water as prescribed from time to time by the Commission or other authorized government agencies, commissions, or officials are incorporated herein by reference.

G. ADOPTION OF STAGED MANDATORY WATER USE REDUCTIONS (for Schedule 14.1)

1. ADDITION OF SCHEDULE 14.1: If, in the opinion of Cal Water, more stringent water conservation measures are required due to supply conditions or government directive, Cal Water may request the addition of a Schedule No. 14.1 – Staged Mandatory Water Use Reductions, via a Tier 2 advice letter.

A. Cal Water may not activate Schedule No. 14.1 until it has been authorized to do so by the California Public Utilities Commission, as delegated to its Division of Water and Audits.

B. A Schedule No. 14.1 that has been authorized by the California Public Utilities Commission shall remain dormant until triggered by specific conditions detailed in the Schedule 14.1 tariff and Cal Water has requested and received authorization for activating a stage by the California Public Utilities Commission.

(N)

(continued)

(To be inserted by utility)
Advice Letter No. 2167-A
Decision No. -

Issued by
PAUL G. TOWNSLEY
NAME
Vice President
TITLE

(To be inserted by Cal. P.U.C.)
Date Filed _____
Effective _____
Resolution No. _____

This tariff has been approved by the
California Public Utilities Commission.

New

Canceling

Cal. P.U.C. Sheet No. _____
Cal. P.U.C. Sheet No. _____

Rule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN (continued)

(Page 12)

G. ADOPTION OF STAGED MANDATORY WATER USE REDUCTIONS (for Schedule 14.1) (continued)

- c. Notice of the Tier 2 advice letter and associated public participation hearing, if required, shall be provided to customers through a bill insert or a direct mailing, as set forth in Subsection 5 (Public Notice) below.
- d. Cal Water shall comply with all requirements of Sections 350-358 of the California Water Code.
- e. The Tier 2 advice letter requesting the addition of a Schedule No. 14.1 shall include, but not be limited to:
 - i. A proposed Schedule No. 14.1 tariff, which shall include but not be limited to:
 - 1. Applicability,
 - 2. Territory applicable to,
 - 3. A detailed description of each stage of water budgets (the number of stages requested for a ratemaking area may vary depending on the specifics of the water shortage event),
 - 4. A detailed description of the trigger(s) that activates each stage of water budgets,
 - 5. A detailed description of each water use restriction for each stage of water budgets,
 - 6. Water use violation levels, written warning levels, associated fines, if applicable, and exception procedures,
 - 7. Conditions for installation of a flow restrictor,
 - 8. Charges for removal of flow restrictors, and
 - 9. Special conditions
 - ii. Justification for, and documentation and calculations in support of the water budgets.

2. Conditions for Activating Schedule No. 14.1: Cal Water may file a Tier 1 advice letter to request activation of a particular stage of its Schedule No. 14.1 tariff if:

- a. Cal Water, the California Public Utilities Commission, wholesale water supplier, or other government agency declares an emergency requiring mandatory water budgets, mandatory water rationing, or mandatory water allocations; or
- b. A government agency declares a state of emergency in response to severe drought conditions, earthquake or other catastrophic event that severely reduces Cal Water's water supply; or
- c. Cal Water is unable to achieve water conservation targets set by itself; or
- d. Water conservation targets set by itself or a governing agency are insufficient; or
- e. Cal Water chooses to subsequently activate a different stage of its Schedule No. 14.1 tariff.

(continued)

(To be inserted by utility)

Advice Letter No. 2167-A

Decision No. -

Issued by

PAUL G. TOWNSLEY

NAME

Vice President

TITLE

(To be inserted by Cal. P.U.C.)

Date Filed _____

Effective _____

Resolution No. _____

This tariff has been approved by the
California Public Utilities Commission.

 New
Canceling

Cal. P.U.C. Sheet No. _____
Cal. P.U.C. Sheet No. _____

Rule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN (continued)

(Page 13)

G. ADOPTION OF STAGED MANDATORY WATER USE REDUCTIONS (for Schedule 14.1) (continued)

- a. Include, but not be limited to, a justification for activating the particular stage of mandatory water use reductions, as well as the period during which the particular stage will be in effect.
 - b. Be accompanied by the customer notification measures detailed in sub-section 5 (Public Notice) below.
4. De-Activating Schedule No. 14.1: When Schedule No. 14.1 is activated and Cal Water determines that water supplies are again sufficient to meet normal demands, and mandatory water use reductions are no longer necessary, Cal Water shall seek the approval of the California Public Utilities Commission, via a Tier 1 advice letter, to deactivate the particular stage of mandatory water use reductions that had been authorized.

5. Public Notice

- a. When Cal Water requests the addition of a Schedule 14.1 – Staged Mandatory Water Use Reductions Tariff, via a Tier 2 advice letter, it shall provide notice of the Tier 2 advice letter and associated public hearing provided to customers through bill inserts or direct mailing, and it shall comply with all requirements of Sections 350-358 of the California Water Code (CWC), including but not limited to the following:
 - i. In order to be in compliance with both the General Order 96-B and CWC, notice shall be provided via both newspaper and bill insert/direct mailing.
 - ii. One notice shall be provided for each advice letter filed, that includes both notice of the filing of the Tier 2 advice letter as well as the details of the public hearing (date, time, place, etc.).
 - iii. The public meeting shall be held after the Tier 2 advice letter is filed, and before the Commission authorizes the addition of Schedule 14.1 to the tariff except in cases of emergency water shortages approved by DWA.
 - iv. Cal Water shall consult with Division of Water and Audits staff prior to filing advice letter, in order to determine details of public meeting.
- b. In the event that Schedule No. 14.1- Staged Mandatory Water Use Reductions Tariff is triggered, and Cal Water requests activation through the filing of a Tier 1 advice letter, Cal Water shall notify its customers and provide each customer with a summary of Schedule No. 14.1 by means of bill insert or direct mailing. Notification shall take place prior to imposing any penalties associated with this plan. If activation of Schedule No. 14.1 occurs one year or more since the public hearing associated with adding Schedule 14.1 to its tariffs, then Cal Water shall conduct a public hearing pursuant to California Water Code Section 351 prior to activating a stage of its Mandatory Water Use Reduction Tariff.
- c. During the period that a stage of Schedule No. 14.1 is activated, Cal Water shall provide customers with updates in at least every other bill, regarding its water supply status and the results of customers' conservation efforts.

(N)

[end]

(To be inserted by utility)
Advice Letter No. 2167-A
Decision No. -

Issued by
PAUL G. TOWNSLEY
NAME
Vice President
TITLE

(To be inserted by Cal. P.U.C.)
Date Filed _____
Effective _____
Resolution No. _____



CALIFORNIA WATER SERVICE COMPANY
 1720 NORTH FIRST STREET
 SAN JOSE, CA 95112 • (408) 367-8200 • F (408) 367-8428

May 27, 2015

Advice Letter No. 2168-A

CALIFORNIA WATER SERVICE COMPANY (U 60 W)

To The Public Utilities Commission of the State of California:

California Water Service Company (“Cal Water”) hereby transmits for filing the following changes in its tariffs:

New/Revised C.P.U.C. Sheet No.	Title of Sheet	Schedule No.	Cancelling C.P.U.C. Sheet No.
xxxxx-W	Schedule No. 14.1 (Pages 1 – 14)	Not Applicable	xxxxx-W
xxxxx-W	Table of Contents (Page 1)	Not Applicable	xxxxx-W
xxxxx-W	Table of Contents (Page2)	Not Applicable	xxxxx-W

Summary

Via this Tier 2 advice letter, Cal Water requests Commission approval to add Schedule 14.1, which contains the Staged Mandatory Reductions and Drought Surcharges associated with its Water Shortage Contingency Plan. This filing is consistent with Resolution W-5034, adopted by the Commission on April 9, 2015, ordering compliance with requirements of the State Water Resources Control Board. Cal Water requests an effective date of **June 1, 2015**.

This supplement to AL 2168 makes several changes to the language in the originally-proposed Schedule 14.1, some of which correct typographical and formatting errors, and some of which are substantive, as discussed below.

Background

The Division of Water and Audits, with input from interested parties, substantially modified the sample Rule 14.1 originally provided in the July 2007 SP U-40 document. The result – “Example Rule 14.1” – is now contained in the Drought Procedures adopted in Res. W-4976.



CALIFORNIA WATER SERVICE COMPANY

Advice Letter 2168-A – Addition of Schedule 14.1 – Drought Surcharges

Page 2

In Advice Letter 1881, Cal Water sought, and the Commission approved, a proposed Rule 14.1 that was based upon the sample Rule 14.1 in Standard Practice U-40-W (“SP U-40”), dated July 2007. Cal Water’s Rule 14.1 became effective on September 15, 2008.

On February 27, 2014, the Commission adopted Drought Procedures in Resolution No. (“Res.”) W-4976. Appendix B to those Drought Procedures contains an “Example of Rule 14.1” that modifies the sample Rule 14.1 in the July 2007 version of SP U-40. For Class A and B water companies like Cal Water that have an existing Rule 14.1, Ordering Paragraph (“OP”) 2 of Res. W-4976 requires the submission of a letter notifying the Division of Water & Audits (“DWA”) that the companies are activating their Tariff Rule 14.1 to call for a 20% voluntary reduction in water use. Cal Water submitted that notification to DWA on March 28, 2014.

Discussion

In Resolution W-5034, the Commission articulated the steps that its regulated water utilities should take to comply with the mandatory use restrictions and penalties for violations established by the State Water Resources Control Board (“Water Board”). As required by that resolution, Cal Water submits the attached proposed Schedule 14.1.

In addition, Cal Water has been holding the public hearings required by California Water Code Sections 350 *et seq.* as follows:

District/Service Area	In May	Time	Location
Los Altos	11 Mon	6 p.m.	Covington School 201 Covington Road, Los Altos, CA 94024
East Los Angeles	12 Tues	5:30 p.m.	City building TBD
Dominguez (Rancho Dominguez)	12 Tues	6 p.m.	Customer Center 2632 West 237th St., Torrance, CA 90505
Lucerne (Redwood Valley District)	12 Tues	6 p.m.	Lucerne Elementary School 3351 Country Club Drive, Lucerne, CA 95458
Palos Verdes (Rancho Dominguez)	13 Wed	6 p.m.	Customer Center 2632 West 237th St., Torrance, CA 90505
Guerneville (Redwood Valley District)	13 Wed	6 p.m.	Guerneville Elementary School 14630 Armstrong Woods Road, Guerneville, 95446
Visalia	13 Wed	6 p.m.	Visalia Marriott 300 South Court St., Visalia, CA 93291
Oroville	14 Thurs	5:30 p.m.	Customer Center 1905 High Street, Oroville, CA 95965



CALIFORNIA WATER SERVICE COMPANY

Advice Letter 2168-A – Addition of Schedule 14.1 – Drought Surcharges

Page 3

District/Service Area	In May	Time	Location
Dixon	14 Thurs	6:45 p.m.	Dixon Senior/Multi-Use Center 201 South Fifth St., Dixon, CA 95620
Selma	14 Thurs	6 p.m.	Selma City Hall 1710 Tucker St., Selma, CA 93662
Salinas	18 Mon	6 p.m.	Customer Center 254 Commission St., Salinas, CA 93901
Willows	18 Mon	6 p.m.	Willows City Hall
South San Francisco (Bayshore District)	19 Tues	6 p.m.	City of SSF Orange Park – Joseph A. Fernekes Bldg 781 Tennis Drive, South San Francisco, CA 94080
Bear Gulch	19 Tues	6 p.m.	Las Lomas Elementary School - Cano Hall
Mid-Peninsula (Bayshore District)	20 Wed	5:30 p.m.	Customer Center 341 N. Delaware St., San Mateo, CA 94401
Livermore	20 Wed	6 p.m.	Livermore City Council Chambers 3575 Pacific Ave., Livermore, CA 94550
Westlake	20 Wed	6 p.m.	Evanstar Clubhouse 1040 Evanstar, XXXX
Hermosa-Redondo (Rancho Dominguez)	21 Thurs	6 p.m.	Customer Center 2632 West 237th St., Torrance, CA 90505
King City	21 Thurs	6 p.m.	City Hall Council Chambers 212 S. Vanderhurst Ave., King City, 93930
Bakersfield	21 Thurs	6 p.m.	Operations Center 3725 South H St., Bakersfield, CA 93304
Antelope Valley	26 Tues	6 p.m.	Leona Valley Community Building 8367 Elizabeth Lake Road, Leona Valley, CA 93551
Marysville	27 Wed	5:30 p.m.	Customer Center 131 D Street, Marysville, CA 95901
Chico	27 Wed	6 p.m.	City Council Chambers 95927 421 Main St., Chico, CA
Stockton	28 Thurs	5:30 p.m.	Operations Center 1602 E. Lafayette St., Stockton, CA 95205
Kern River Valley	28 Thurs	6 p.m.	Moose Lodge 6732 Lake Isabella Blvd., Lake Isabella, 93240

This supplement corrects several typographical and formatting errors. In addition, in response to concerns expressed by customers, this supplement makes the following substantive changes to the Schedule 14.1 originally proposed in AL 2168, changes that are mirrored in the supplement to AL 2167 also being submitted today:



- Adding a definition for “ornamental lawns” and modifying related water use restrictions.
- Eliminating the water use prohibition on the filling and re-filling of single-family, residential swimming pools.
- Modifying the advice letter to activate stages from Tier 1 to Tier 2.
- Adding specific details relating to the appeals procedures, banking procedures, water budgets, and drought surcharges.

Tier Designation

Pursuant to Resolutions W-4976 and W-5034, Cal Water submits this as a Tier 2 advice letter.

Requested Effective Date

Cal Water requests that this advice letter become effective on **June 1, 2015**.

Notice

Customer Notice – Cal Water is providing customer notice of this Tier 2 filing via a bill message, a bill insert, or separate mailing.

Service Lists – In accordance with General Order 96-B, General Rule 4.3 and 7.2 and Water Industry Rule 4.1, a copy of this **supplement** will be mailed or electronically transmitted on **May 27, 2015**, to competing and adjacent utilities and other utilities or interested parties having requested such notification.

Response or Protest

Anyone may respond to or protest this advice letter. A response supports the filing and may contain information that proves useful to the Commission in evaluating the advice letter. A protest objects to the advice letter in whole or in part and must set forth the specific grounds on which it is based. These grounds are:

- (1) The utility did not properly serve or give notice of the advice letter;
- (2) The relief requested in the advice letter would violate statute or Commission order, or is not authorized by statute or Commission order on which the utility relies;
- (3) The analysis, calculations, or data in the advice letter contain material error or omissions;
- (4) The relief requested in the advice letter is pending before the Commission in a formal proceeding; or



- (5) The relief requested in the advice letter requires consideration in a formal hearing, or is otherwise inappropriate for the advice letter process; or
- (6) The relief requested in the advice letter is unjust, unreasonable, or discriminatory (provided that such a protest may not be made where it would require relitigating a prior order of the Commission.)

A protest shall provide citations or proofs where available to allow staff to properly consider the protest. A response or protest must be made in writing or by electronic mail and must be received by the Division of Water and Audits within 20 days of the date this advice letter is filed. The advice letter process does not provide for any responses, protests or comments, except for the utility's reply, after the 20-day comment period. The address for mailing or delivering a protest is:

Tariff Unit, Division of Water and Audits, 3rd floor
California Public Utilities Commission,
505 Van Ness Avenue, San Francisco, CA 94102
water_division@cpuc.ca.gov

On the same date the response or protest is submitted to the Division of Water and Audits, the respondent or protestant shall send a copy by mail (or e-mail) to us, addressed to:

Darin Duncan
California Water Service Company
1720 North First Street,
San Jose, California 95112
Fax 408/367-8430 or
E-mail dduncan@calwater.com

Cities and counties that need Board of Supervisors or Board of Commissioners approval to protest should inform the Division of Water and Audits, within the 20-day protest period, so that a late filed protest can be entertained. The informing document should include an estimate of the date the proposed protest might be voted on.

Replies

The utility shall reply to each protest and may reply to any response. Each reply must be received by the Division of Water and Audits within 5 business days after the end of the protest period, and shall be served on the same day to the person who filed the protest or response. If you have not received a reply to your protest within 10 business days, contact California Water Service Company at 408/367-8200.



CALIFORNIA WATER SERVICE COMPANY

Advice Letter 2168-A – Addition of Schedule 14.1 – Drought Surcharges

Page 6

_____/s/
Natalie D. Wales
Regulatory Counsel

Enclosures

cc: Ting-Pong Yuen, ORA

CALIFORNIA PUBLIC UTILITIES COMMISSION DIVISION OF WATER AND AUDITS Advice Letter Cover Sheet				(Date Filed / Received Stamp by CPUC)	
AL #2168- A	Date Mailed to Service List: May 27, 2015	Requested Effective Date: June 1, 2015		Requested Tier: <input type="checkbox"/> Tier 1 <input checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 3	
Replacing AL#: #2168	Authorized by: Resolutions W-4976 and W-5034	Compliance Filing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Rate Impact	\$	None
				%	None
<u>The public has 20 days from Date Mailed (above) to protest this advice letter. If you chose to protest or respond to the advice letter, send Protest and/or Correspondence within 20 days to:</u>				Director Division of Water and Audits 505 Van Ness Ave. San Francisco, CA 94102	
<u>and if you have email capability, also email to:</u>				water_division@cpuc.ca.gov	
<u>Your protest also must be served on the Utility</u>			(see attached advice letter for more information and grounds for protest)		
Company Name: California Water Service Company				CPUC Utility	
Address: 1720 North First Street				Number:	
City, State, Zip: San Jose, CA 95112				WTA U-60-W	
Contact Name:		Phone No.	Fax No.	Email Address:	
r	NATALIE WALES	408-367-8566	408-367-8340	nwales@calwater.com	
ate	DARIN DUNCAN	408-367-8227	408-367-8340	dduncan@calwater.com	
Description: In this space or on the back of this form: 1. Explain justification for requested Tier – Res. W-4976 and W-5034 2. Describe service affected and how it is affected – Drought surcharges and penalties 3. Describe differences from related Advice Letters (Similar service, replacement filing) – replacement for AL 2168					
(FOR CPUC USE ONLY)					
WTS Budget/Activity/Type _____/_____/_____			Process as: <input type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 3		
Project Manager:			20th Day		30th Day
Analyst:			Suspended on:		
Due Date:			Extended on:		
Completion Date:			Resolution No.:		
			AL/Tariff Effective Date:		

Appendix 1 - Tariff Sheet Changes in Advice Letter 2168-A

New/Revised C.P.U.C. Sheet No.	Title of Sheet	Schedule No.	Cancelling C.P.U.C. Sheet No.
xxxxx -W	Table of Contents (Page 1)	Not Applicable	10620 -W
xxxxx -W	Table of Contents (Page 2)	Not Applicable	10610 -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 1 of 12)	14.1 (Page 1)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 2 of 12)	14.1 (Page 2)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 3 of 12)	14.1 (Page 3)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 4 of 12)	14.1 (Page 4)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 5 of 12)	14.1 (Page 5)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 6 of 12)	14.1 (Page 6)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 7 of 12)	14.1 (Page 7)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 8 of 12)	14.1 (Page 8)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 9 of 12)	14.1 (Page 9)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 10 of 12)	14.1 (Page 10)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 11 of 12)	14.1 (Page 11)	- -W
xxxxx -W	Schedule 14.1 - Drought Surcharges (Page 12 of 12)	14.1 (Page 12)	- -W

Table of Contents (Page 1 of 8)

The following listed tariff sheets contain all effective rates and rules affecting the rates and service of the Utility together with information relating thereto:

<u>Sheet Subject Matter</u>	<u>Cal. P.U.C. Sheet No.</u>
Title Page	5613-W
Table of Contents .....	.....xxxxx-xxxxx-10626-10608-xxxxx-10197-10452-10212-2926-W (C)
Preliminary Statement A	9240-8212-W
Preliminary Statement B-D .....	.610-W
Preliminary Statement F .....	.8312-W
Preliminary Statement H .....	.6686-W
Preliminary Statement J2	10438-W
Preliminary Statement K .....	.7313-W
Preliminary Statement M	7345-8372-10605-10374-10604-10488-10603-10480-10601-W
Preliminary Statement M	10481-10408-10602-10489-10600-10409-10599-10482-10598-W
Preliminary Statement M	10597-10596-10391-10595-10594-10483-10395-10593-10397-W
Preliminary Statement P .....	.7446-W
Preliminary Statement Q .....	.10043-W
Preliminary Statement S .....	.8013-W
Preliminary Statement T .....	.8017-W
Preliminary Statement U .....	.8446-W
Preliminary Statement V .....	.8154-W
Preliminary Statement W .....	.8156-W
Preliminary Statement X .....	.8314-W
Preliminary Statement Z1 .....	.10439-W
Preliminary Statement Z2 .....	.10440-W
Preliminary Statement AA1 .....	.10441-W
Preliminary Statement AA2 .....	.10442-W
Preliminary Statement AB2 .....	.10443-W
Preliminary Statement AC .....	.8637-W
Preliminary Statement AD .....	.10451-W
Preliminary Statement AE .....	.10444-W, 10445-W
Preliminary Statement AF .....	.9025-W
Preliminary Statement AG .....	.9032-W
Preliminary Statement AI .....	.10221-W
Preliminary Statement AJ .....	.9671-W
Preliminary Statement AK .....	.10101-W
Preliminary Statement AL .....	.10208-W
Preliminary Statement AM .....	.10446-W
Preliminary Statement AN .....	.10447-W
Preliminary Statement AO .....	.10448-W
Preliminary Statement AP .....	.10449-W
Preliminary Statement AQ .....	.10450-W
Preliminary Statement AR .....	.10447-W

(continued)

(To be inserted by utility)
 Advice Letter No. 2168-A
 Decision No. -

Issued by
PAUL G. TOWNSLEY
NAME
Vice President
TITLE

(To be inserted by Cal. P.U.C.)
 Date Filed
 Effective
 Resolution No.

Table of Contents (Page 2 of 8)
 (continued)

<u>Sheet Subject Matter</u>	<u>Service Area</u>	<u>Schedule Number</u>	<u>Cal. P.U.C. Sheet No.</u>
<u>RATE SCHEDULES:</u>			
ALL DISTRICTS			
Service to Company Employees		ED-1	5168-W
Rate Support Fund		RSF	10369-W
Low Income Ratepayer Assistance (Page 1 of 3)		LIRA	10370-W
Low Income Ratepayer Assistance (Page 2 of 3)		LIRA	10371-W
Low Income Ratepayer Assistance (Page 3 of 3)		LIRA	10553-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 1 of 13)		14.1	xxxxx-W (N)
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 2 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 3 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 4 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 5 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 6 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 7 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 8 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 9 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 10 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 11 of 13)		14.1	xxxxx-W
Schedule 14.1 - Staged Mand. Reductions and Drought Surcharges (Page 12 of 13)		14.1	xxxxx-W (N)
PBOP Surcharge		PB	7049-W
Additional Surcharges/Surcredits		AS	10199-W
Additional Surcharges/Surcredits Page 2		AS pg 2	10464-W
Additional Surcharges/Surcredits Page 3		AS pg 3	10554-W
Additional Surcharges/Surcredits Page 4		AS pg 4	10555-W
ANTELOPE VALLEY DISTRICT			
Residential Metered Service - Leona Valley Service Area		AV-LEO-1-R	10592-W
Nonresidential Metered Service - Leona Valley Service Area		AV-LEO-1-NR	10591-W
Residential Metered Service-Lancaster Service Area		AV-LAN-1-R	10590-W
Nonresidential Metered Service- Lancaster Service Area		AV-LAN-1-NR	10589-W
General Metered Service-Fremont Valley Lake Hughes Service Area		AV-FM-1	10588-W
Limited Residential Flat Rate Service-Lake Hughes Service Area		AV-LH-2R	6550-W
Private Fire Protection Service-All Antelope Valley Service Areas		AV-4	10266-W
BAKERSFIELD DISTRICT			
Residential Metered Service		BK-1-R	10267-W
Nonresidential Metered Service		BK-1-NR	10268-W
Residential Flat Rate Service		BK-2R	10269-W
Private Fire Protection Service		BK-4	10270-W
Public Fire Hydrant Service		BK-5	10271-W
BAYSHORE DISTRICT			
Residential Metered Service - South San Francisco Service Area		BAY-1-R	10587-W
Nonresidential Metered Service - South San Francisco Service Area		BAY-1-NR	10586-W
Private Fire Protection Service		BAY-4	10278-W
BEAR GULCH DISTRICT			
Residential Metered Service		BG-1-R	10484-W
Nonresidential Metered Service		BG-1-NR	10485-W
Private Fire Protection Service		BG-4	10281-W
Public Fire Hydrant Service		BG-5	9547-W
CHICO - HAMILTON CITY DISTRICT			
Residential Metered Service		CH-1-R	10585-W
Nonresidential Metered Service		CH-1-NR	10584-W
Private Fire Protection Service		CH-4	10285-W
DIXON DISTRICT			
Residential Metered Service		DX-1-R	10472-W
Nonresidential Metered Service		DX-1-NR	10473-W
		DX-4	10288-W

(continued)

Schedule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN

WITH STAGED MANDATORY REDUCTIONS AND DROUGHT SURCHARGES

Page 1

A. APPLICABILITY

- 1. This schedule applies to all of California Water Service’s regulated ratemaking areas in California, as well as Grand Oaks Water.

B. GENERAL INFORMATION

- 1. All expenses incurred by utility to implement Rule 14.1, and Schedule 14.1, and requirements of the California State Water Resources Control Board (“Water Board”) that have not been considered in a General Rate Case or other proceeding shall be accumulated by Cal Water in a separate memorandum account, authorized in Resolution W-4976, for disposition as directed or authorized from time to time by the Commission.
- 2. All monies collected by Cal Water through waste of water penalties established in this schedule shall be recorded in the appropriate memorandum account and used to offset the expenses described in Section 1 above.
- 3. Except in the case of Grand Oaks, all monies collected by Cal Water through drought surcharges, as established by the Mandatory Water Budgets found in Schedule 14.1, shall be recorded in the appropriate Water Revenue Adjustment Mechanism (“WRAM”) account and used to offset under-collected revenues.
- 4. To the extent that any provision in this Schedule is inconsistent with Rule 14.1, the provisions of this Schedule apply.
- 5. A customer may request installation of a real-time water measurement device on the customer's service line. The cost of the device, including installation and ongoing operating costs, shall be billed to the customer, and nonpayment may result in discontinuance of service.
- 6. On April 1, 2015, the Governor of the State of California issued Executive Order B-29-15 due to severe drought conditions. The Executive Order, among other requirements, directs the State Water Resources Control Board (“Water Board”) to impose restrictions on urban water suppliers like Cal Water to achieve a statewide 25% reduction in potable urban usage, as compared with the amount used in 2013, through February 2016.
 - A. The restrictions must take into consideration the relative per capita water usage of each water supplier’s service area such that those with high per capital use are required to achieve proportionally greater reductions than those with less use.
 - B. Urban water suppliers must develop rate structures and other pricing mechanisms, such as surcharges and penalties, to achieve 25% water conservation.
- 7. On May 5, 2015, the Water Board issued an Emergency Regulation by Resolution No. 2015-0032 due to continuing drought conditions with specific water use reductions, by service area, and prohibitions on how end-use customers can use potable water. On May 7, 2015, the California Public Utilities Commission (“Commission”) issued Resolution W-5041 ordering compliance with the mandates of the Governor and the Water Board.

C. DEFINITIONS

For the purposes of this Schedule, the following terms have the meanings set forth in this section.
(These are the same as in Rule 14.1, unless otherwise specified.)

- 1. “Commercial nursery” means the use of land, buildings or structures for the growing and/or storing of flowers, fruit trees, ornamental trees, vegetable plants, shrubs, trees and similar vegetation for the purpose of transplanting, for use as stock or grafting, and includes the retail sale or wholesale distribution of such items directly from the premises/lot.

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C. DEFINITIONS (Continued)

2. "Drip irrigation system" means a non-spray, low-pressure, and low volume irrigation system utilizing emission devices with a precipitation or flow rate measured in gallons per hour (GPH), designed to slowly apply small volumes of water at or near the root zone of plants or other landscaping.
3. "Flow rate" means the rate at which water flows through pipes, valves, and emission devices, measured in gallons per minute (GPM), gallons per hour (GPH), inches per hour (IPH), hundred cubic feet (Ccf), or cubic feet per second (CFS).
4. "Flow-restricting device" means valves, orifices, or other devices that reduce the flow of potable water through a service line, which are capable of passing a minimum of 3 Ccf per person, per month, based upon the U.S. Census calculation of the average number of people in a household in the area.
5. "High-efficiency sprinkler systems" means an irrigation system with emission devices, such as sprinkler heads or nozzles, with a precipitation or flow rate no greater than one IPH.
6. "Irrigation" means the application of potable water by artificial means to landscape.
7. "Irrigation system" means the components of a system meant to apply water to an area for the purpose of irrigation, including, but not limited to, piping, fittings, sprinkler heads or nozzles, drip tubing, valves, and control wiring.
8. "Landscape" means all of the outdoor planting areas, turf areas, and water features at a particular location.
9. "Measureable rainfall" means any amount of precipitation of more than one-tenth of an inch (0.1").
10. "Micro spray irrigation system" means a low-pressure, low-volume irrigation system utilizing emission devices that spray, mist, sprinkle, or drip with a precipitation or flow rate measured in GPH, designed to slowly apply small volumes of water to a specific area.
11. "Ornamental landscape" means shrubs, bushes, flowers, ground cover, turf, lawns, and grass planted for the purpose of improving the aesthetic appearance of property, but does not include crops or other agricultural products or special landscape areas.
12. "Ornamental turf" means a ground cover surface of grass that can be mowed and is planted for the purpose of improving the aesthetic appearance of the property, but does not include crops or other agricultural products or special landscape areas.
13. "Plumbing fixture" means a receptacle or device that is connected to a water supply system, including, but not limited to, pipes, toilets, urinals, showerheads, faucets, washing machines, water heaters, tubs, and dishwashers.
14. "Potable water" means water supplied by Cal Water which conforms to the federal and state standards for human consumption.
15. "Properly programmed" means a smart irrigation controller that has been programmed according to the manufacturer's instructions and site-specific conditions.
16. "Real-time water measurement device" means a device or system that provides regularly updated electronic information regarding the customer's water use.
17. "Runoff" means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape onto other areas.
18. "Smart irrigation controller" means an automatic device used to remotely control valves that operate an irrigation system that has been tested by an American National Standards Institute accredited third-party certifying body or

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C. DEFINITIONS (Continued)

laboratory in accordance with the Environmental Protection Agency’s WaterSense program (or an analogous successor program), and certified by such body or laboratory as meeting the performance and efficiency requirements of such program, or the more stringent performance and efficiency requirements of another similar program.

- 19. “Special landscape area” means an area of the landscape dedicated solely to edible plants and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a playing surface.
- 20. “Turf” means a ground cover surface of grass that can be mowed.
- 21. “Water feature” means a design element where open, artificially supplied water performs an aesthetic or recreation feature, including, but not limited to, ponds, lakes, waterfalls, fountains, and streams.
- 22. “Water use evaluation” means an evaluation of the efficiency of indoor water-using devices, including, but not limited to, measurement of flow rates for all existing showerheads, faucets, and toilets, inspection for leaks, and providing written recommendations to improve the efficiency of the indoor water-using fixtures and devices and/or an evaluation of the performance of an irrigation system, including, but not limited to, inspection for leaks, reporting of overspray or runoff, and providing written recommendations to improve the performance of the irrigation system.

D. WASTE OF WATER PENALTIES

Each Stage of this Schedule establishes certain restrictions on the use of potable water. essential, wasteful use of potable water. Cal Water is authorized to take the following actions when its personnel verify a customer is using potable water for non-essential, wasteful uses. No person shall have any right or claim in law or in equity, against Cal Water because of, or as a result of, any matter or thing done or threatened to be done pursuant to the restrictions on using potable water for non-essential, wasteful uses.

Note: When a Stage in this Schedule has been activated, Section D in this Schedule supersedes Section D (Enforcement) in Rule 14.1.

- 1. **FIRST VIOLATION**: Cal Water shall provide the customer with a written notice of violation. In addition, Cal Water is authorized to take the following actions:
 - A. If the customer currently receives service through a metered connection, install a real-time water measurement device on the customer’s service line and provide the customer with access to information from the device. The cost of the device, including installation and ongoing operating costs, shall be billed to the customer, and nonpayment may result in discontinuance of service.
 - B. If the customer does not currently receive service through a metered connection, install a water meter on the customer’s service line, charge the customer for water use pursuant to Cal Water’s metered service tariffs and rules, and install a real-time water measurement device on the customer’s service line and provide the customer with access to information from the device. The cost of the device, including installation and ongoing operating costs, shall be billed to the customer, and nonpayment may result in discontinuance of service.
- 2. **SECOND VIOLATION**: If Cal Water verifies that the customer has used potable water for non-essential, wasteful uses after having been notified of the first violation, Cal Water shall provide the customer with a second written notice of violation. In addition to the actions prescribed under the first violation above, Cal Water is authorized to take the following actions:
 - A. Apply the following waste of water penalties, which are in addition to any other charges authorized by this Schedule or other Cal Water tariffs.
 - i. If Stage 1 is in effect, \$25 (Stage 1 is detailed below in Section E).
 - ii. If Stage 2 is in effect, \$50 (Stage 2 is detailed below in Section F).

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WATER SHORTAGE CONTINGENCY PLAN
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D. WASTE OF WATER PENALTIES (Continued)

- iii. If Stage 3 is in effect, \$100 (Stage 3 is detailed below in Section G).
 - iv. If Stage 4 is in effect, \$200 (Stage 4 is detailed below in Section H).
 - B. At its sole discretion, waive the waste of water penalty if the customer participates in a water use evaluation provided by Cal Water and/or provides documentation to Cal Water proving that a drip irrigation system, micro spray irrigation system, high-efficiency sprinkler system, or properly programmed smart irrigator controller has been installed, after a notice of violation was delivered, and is in use at the customer's service address.
3. **THIRD VIOLATION:** If Cal Water verifies that the customer has used potable water for non-essential, wasteful uses after having been notified of the second violation, Cal Water shall provide the first and second violations above, Cal Water is authorized to take the following actions:
- A. Apply the following waste of water penalties, which are in addition to any other charges authorized by this Schedule or other Cal Water tariffs.
 - i. If Stage 1 is in effect, \$50 (Stage 1 is detailed below in Section E).
 - ii. If Stage 2 is in effect, \$100 (Stage 2 is detailed below in Section F).
 - iii. If Stage 3 is in effect, \$200 (Stage 3 is detailed below in Section G).
 - iv. If Stage 4 is in effect, \$400 (Stage 4 is detailed below in Section H).
 - B. At its sole discretion, waive the waste of water surcharge if the customer participates in a water use evaluation provided by Cal Water and/or provides documentation to Cal Water proving that a drip irrigation system, micro spray irrigation system, high-efficiency sprinkler system, or properly programmed smart irrigation controller has been installed, after notice of violations have been delivered, and is in use at the customer's service address.
4. **FOURTH VIOLATION:** If Cal Water verifies that the customer has used potable water for non-essential, wasteful uses after having been notified of the third violation, Cal Water shall provide the customer with a fourth written notice of violation. In addition to actions set forth in previous violations prescribed above, Cal Water is authorized to install a flow-restricting device on the customer's service line. Cal Water shall not be held liable for any injuries, damages, and/or consequences arising from the installation of a flow restricting device.
5. **EGREGIOUS VIOLATIONS:** Notwithstanding the foregoing framework for penalties, customers who Cal Water has verified are egregiously using potable water for non-essential, wasteful uses are subject to having a flow-restricting device installed on their service line. After providing the customer with one notice of egregious violation, either by direct mail or door hanger, which documents the egregious use of potable water for non-essential, wasteful uses and explains that failure to correct the violation may result in the installation of a flow-restricting device on the customer's service line, Cal Water is authorized to install a flow-restricting device on the customer's service line. Cal Water shall not be held liable for any injuries, damages, and/or consequences arising from the installation of a flow restricting device.
6. **NOTICES OF VIOLATION:**
- A. Unless otherwise specified, written notices of violation provided to customers pursuant to this Schedule shall document the verified violation and alert the customer to the fact that future violations of the restricted uses of potable water may result in a real-time water management device being installed on the customer's service line at the customers expense, waste of water surcharges being applied to the customer's bill, the installation of a flow-restricting device on the customer's service line, or the discontinuation of the customer's service.

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WATER SHORTAGE CONTINGENCY PLAN
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D. WASTE OF WATER PENALTIES (Continued)

- B. If Cal Water elects to install a flow-restricting device on a customer's service line, the written notice service line, shall document the steps the customer must take in order for the flow-restricting device to be removed, and shall explain that after the flow-restricting device is removed, it may be reinstalled, without further notice, if the customer is again verified by Cal Water to be using potable water for non-essential, wasteful uses.
- 7. **FLOW RESTRICTING DEVICE CONDITIONS:** The installation of a flow-restricting device on a customer's service line is subject to the following conditions:
 - A. The device shall be capable of providing the premise with a minimum of 3 Ccf per person, per month, based upon the U.S. Census calculation of the average number of people in a household in the area.
 - B. The device may only be removed by Cal Water, and only after a minimum three-day period has elapsed.
 - C. Any tampering with the device may result in the discontinuation of the customer's water service and the customer being charged for any damage to Cal Water's equipment or facilities and any required service visits.
 - D. After the removal of the device, if Cal Water verifies that the customer is using potable water for non-essential, wasteful uses, Cal Water may install another flow-restricting device without prior notice. This device shall remain in place until water supply conditions warrant its removal. If, despite the installation of the device, Cal Water verifies that the customer is using potable water for non-essential and, unauthorized wasteful uses, then Cal Water may discontinue the customer's water service, as provided in its Rule No. 11.
- 8. **FLOW-RESTRICTING DEVICE REMOVAL CHARGES:** The charge to customers for removal of a flow-restricting device installed pursuant to this Schedule is \$100 during normal business hours, and \$150 for the device to be removed outside of normal business hours.

E. STAGE ONE WATER USE RESTRICTIONS

1. WASTEFUL USES OF WATER (STAGE 1)

The following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need, or to comply with a term or condition in a permit issued by a state or federal agency:

- A. Outdoor Irrigation Restrictions (Stage 1)
 - i. Irrigating ornamental landscapes with potable water is limited to no more than **three (3) days per week**, on a schedule established and posted by Cal Water on its website or otherwise provided to customers by bill message, bill insert, direct mail, or email, or as follows:
 - 1. Customers with even-numbered addresses may irrigate on Saturdays, Tuesdays, and Thursdays.
 - 2. Customers with odd-numbered addresses may irrigate on Sundays, Wednesdays, and Fridays.
 - 3. Customers without a street address may irrigate on Saturdays, Tuesdays, and Thursdays.

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WATER SHORTAGE CONTINGENCY PLAN
WITH STAGED MANDATORY REDUCTIONS AND DROUGHT SURCHARGES (continued)

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E. STAGE ONE WATER USE RESTRICTIONS (Continued)

- 4. Notwithstanding the foregoing restrictions, irrigation of special landscape areas or commercial nurseries landscape area or may occur as needed, provided that the customer who wishes to irrigate a special commercial nursery presents Cal Water with a plan to achieve water use reductions commensurate with those that would be achieved by complying with foregoing restrictions.
- 5. Notwithstanding the foregoing restrictions, when a city, county, or other local public agency in one of Cal Water’s service areas duly adopts restrictions on the number of days or hours of the day that customers may irrigate that are different than those adopted by Cal Water, Cal Water may enforce the city, county, or other local public agency’s restrictions.
- ii. Irrigating ornamental landscape with potable water is prohibited during the hours between **8:00 a.m. and 6:00 p.m.**
- iii. The foregoing restrictions do **not** apply to:
 - 1. Landscape irrigation zones that exclusively use drip irrigation systems and/or micro spray irrigation system;
 - 2. Irrigating ornamental landscapes with the use of a hand-held bucket or similar container, with a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored, or for the express purpose of adjusting or repairing an irrigation system.
- B. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the customer’s plumbing fixtures and/or irrigation system must be repaired within **five (5) business days** of written notification by Cal Water, unless other arrangements are made with Cal Water.
- C. **Prohibited Uses of Water:** Customers are prohibited from using potable water for the following actions:
 - i. The application of potable water to landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;
 - ii. The use of a hose that dispenses potable water to wash vehicles, including cars, trucks, buses, shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.
 - iii. The application of potable water to driveways and sidewalks;
 - iv. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - v. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall (see Definitions);
 - vi. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;
 - vii. Irrigation of ornamental turf on public street medians with potable water;
 - viii. Irrigation outside of newly constructed homes and buildings with potable water in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.
- D. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.

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E. STAGE ONE WATER USE RESTRICTIONS (Continued)

[Stage 1 (cont.)]

- e. Limits on Filling Ornamental Lakes or Ponds: Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Schedule.
- f. Other duly adopted restrictions on the use of potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.

F. STAGE TWO WATER USE RESTRICTIONS

1. MANDATORY WATER BUDGETS AND BANKING (STAGE 2)

The Governor’s Executive Order mandates a 25% reduction in potable urban usage, as compared with the amount used in 2013, through February 2016. To carry out this mandate, the Water Board must develop water use restrictions that take into consideration the relative per capita water usage of each water supplier’s service area such that those with high per capita use are required to achieve proportionally greater reductions than those with less use. In addition, water suppliers must develop rate structures and other pricing mechanisms, such as surcharges and penalties, to achieve 25% water conservation.

A. Mandatory Reduction Percentage: The Water Board has established increasing levels of required water reduction based upon residential per capita per day use (R-GPCD) for the three summer months of July through September 2014.

- i. The Mandatory Reduction Percentage for each of Cal Water’s service areas [and Grand Oaks] is in **Appendix B**. This Mandatory Reduction Percentage is the percentage by which customers in that area must reduce their total potable water use, as compared to their use in 2013.

B. Customer Water Budgets: Each customer with metered potable water service (residential and non-residential customers) will receive an individualized “water budget” for each billing period.

- i. The water budget will be the amount of water the customer can use in that billing period without incurring a “drought surcharge.” The water budget will be based on the units of water (Ccfs) that customer used in the same billing period in 2013, minus the Mandatory Reduction Percentage established by the Water Board (as identified in **Appendix B**). A customer’s water budget will vary according to their monthly water usage in 2013.
- ii. If a customer was not in his or her current location in 2013, the average monthly consumption will be used as a starting budget. If customers have a unique situation and the average budget is not appropriate, they can file an appeal to have their water budget increased. Cal Water may also modify the starting budget to reflect suitable use.
- iii. The water budget for the following billing period will appear on each customer’s water bill. Customers will also be able to find their water budgets, and their individual water use history dating back to 2013, by going to usage.calwater.com (do not include “www”), and entering their account number, street (or house) number, and ZIP code.
- iv. **Water budgets will become effective with the first billing period that begins in the month of June 2015.** No Drought Surcharges will be applied for billing periods that include any days in the month of May 2015.

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F. STAGE TWO WATER USE RESTRICTIONS (Continued)

[Stage 2 (cont.)]

- C. **Minimum Water Budgets:** A minimum monthly amount of water that protects the health and safety of customers will be established for each service area as a Minimum Water Budget for single-family residential customers.
 - i. No single-family residential customer will have a water budget that is below the threshold of the monthly Minimum Water Budget, even if applying the Mandatory Reduction Percentage to that customer’s 2013 usage would result in a lower amount.
 - ii. The Minimum Water Budget for each service area is identified in **Appendix A**. (For areas with bi-monthly billing and bi-monthly water budgets, the Minimum Water Budget in Appendix A should be doubled for the billing period.)
- D. **Drought Surcharges:** If a customer uses more units of potable water (Ccf) than their Water Budget in a billing period, that customer’s water bill will reflect an additional “Drought Surcharge” for each unit of water over the Water Budget.
 - i. The Drought Surcharge per unit of water for each service area is identified in **Appendix A**.
 - ii. Customers will continue to pay the normal tariffed rates for potable water, in addition to any applicable Drought Surcharges. Cal Water retains the right to increase the surcharges if there are changes to the rates in the future.
- E. **Water Banking:** Customers will be able to “bank” unused units of water from their water budget for use in future billing periods.
 - i. Should a customer exceed his or her monthly budget, any banked units of water will be applied to the overage before drought surcharges are imposed.
 - ii. Banked water units can only offset future usage that exceeds a water budget.
- F. **Water Budget Appeals:** If specified criteria are met, a customer can file an appeal to have his or her water budget increased.
 - i. The reasons appeals may be considered include: water use necessary for health and safety; business or economic needs, including process-water requirements; significant long-term savings achieved since 2011; average monthly water use in 2014 that is at least 50% lower than district average; and large animal care (e.g. horse).
 - ii. All appeals must be submitted online at www.calwater.com/appeal or via a written application form (available at www.calwater.com/appeal or from our local Customer Center).
 - iii. Surcharges incurred during the appeal review period may be waived if the review takes an extended period of time.

G. STAGE THREE WATER USE RESTRICTIONS

1. MANDATORY WATER BUDGETS AND BANKING (STAGE 3)

Water budgets will be based on a customer’s consumption during a historical base period and will include a percentage reduction designed to meet necessary water-use reductions. Cal Water may include provisions such as minimum water budgets to protect the health and safety of customers, and water banking allowing customers additional flexibility with regard to their required reductions.

In addition to the normal rate paid for the unit of water, a drought surcharge will be charged to a customer for each unit of water used over the established water budget for the billing period. Cal Water may implement surcharges up to three (3) times those charged in Stage 2. Cal Water will establish an appeals process for customers that will allow for requests for increased water budgets.

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WATER SHORTAGE CONTINGENCY PLAN
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G. STAGE THREE WATER USE RESTRICTIONS (Continued)

[Stage 3 (cont.)]

2. WASTEFUL USES OF WATER (STAGE 3)

The following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency.

Differences from or additions to previous Stages are underlined. (The following restrictions are the same as those provided in Stage 3 of Rule 14.1.)

a. Outdoor Irrigation Restrictions (Stage 3)

i. Irrigating ornamental landscapes with potable water is limited to no more than **two (2) days per week.** on a schedule established and posted by Cal Water on its website or otherwise provided to customers by bill message, bill insert, direct mail, or email, or as follows:

1. Customers with even-numbered addresses may irrigate on Saturdays and Tuesdays (previous Stages allowed Thursdays as well).
2. Customers with odd-numbered addresses may irrigate on Sundays and Wednesdays (previous Stages allowed Fridays as well).
3. Customers without a street address may irrigate on Saturdays and Tuesdays (previous Stages allowed Thursdays as well).
4. Notwithstanding the foregoing restrictions, irrigation of special landscape areas or irrigate a special landscape area or commercial nursery presents Cal Water with a plan to achieve water use reductions commensurate with those that would be achieved by complying with foregoing restrictions.
5. Notwithstanding the foregoing restrictions, when a city, county, or other local public agency in one of Cal Water's service areas duly adopts restrictions on the number of days or hours of the day that customers may irrigate which are different than those adopted by Cal Water, Cal Water may enforce the city, county, or other local public agency's restrictions.

ii. Irrigating ornamental landscape with potable water is prohibited during the hours between **8:00 a.m. and 6:00 p.m.**

iii. The foregoing restrictions do **not** apply to:

1. Landscape irrigation zones that exclusively use drip irrigation systems and/or micro spray irrigation system;
2. Irrigating ornamental landscapes with the use of a hand-held bucket or similar container, a continuously monitored hose which is fitted with an automatic shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored, or for the express purpose of adjusting or repairing an irrigation system.

B. Obligation to Fix Leaks, Breaks or Malfunctions: All leaks, breaks, or other malfunctions in the customer's plumbing fixtures and/or irrigation system must be repaired within **two (2) business days** of written notification by Cal Water, unless other arrangements are made with Cal Water.

C. Prohibited Uses of Water: Customers are prohibited from using potable water for the following actions:

- i. The application of potable water to landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures (note: this provision appears under Section E in Rule 14.1);

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WATER SHORTAGE CONTINGENCY PLAN
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G. STAGE THREE WATER USE RESTRICTIONS (Continued)

[Stage 3 (cont.)]

- ii. The use of a hose that dispenses potable water to wash vehicles, including cars, trucks, buses, boats, aircraft, and trailers, whether motorized or not, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use (note: this provision appears under Section E in Rule 14.1).
 - iii. The application of potable water to driveways and sidewalks;
 - iv. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - v. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall;
 - vi. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;
 - vii. Irrigation of ornamental turf on public street medians with potable water;
 - viii. Irrigation outside of newly constructed homes and buildings with potable water in a manner inconsistent with regulations or other requirements established by the California Building Standards Commission and the Department of Housing and Community Development.
 - ix. Use of potable water for street cleaning with trucks, except for initial wash-down for construction purposes (if street sweeping is not feasible);
 - x. Use of potable water for construction purposes, such as consolidation of backfill, dust control, or other uses unless no other source of water or other method can be used.
- D. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.
- E. Limits on Filling Ornamental Lakes or Ponds: Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Schedule.
- F. Other duly adopted restrictions on the use of potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.

H. STAGE FOUR WATER USE RESTRICTIONS

1. MANDATORY WATER BUDGETS AND BANKING (STAGE 4)

Water budgets will be based on a customer's consumption during a historical base period and will include a percentage reduction designed to meet necessary water-use reductions. Cal Water may include provisions such as minimum water budgets to protect the health and safety of customers, and water banking allowing customers additional flexibility with regard to their required reductions.

In addition to the normal rate paid for the unit of water, a drought surcharge will be charged to a customer for each unit of water used over the established water budget for the billing period. For Stage 4, Cal Water may implement surcharges up to three (3) times those charged in Stage 2. Cal Water may require customer consumption reductions of up to 50%.

Cal Water will establish an appeals process for customers that will allow for requests for increased water budgets.

(N)

(continued)

(To be inserted by utility)

Issued by

(To be inserted by Cal. P.U.C.)

Advice Letter No. 2168-A

PAUL G. TOWNSLEY

Date Filed _____

Decision No. -

Vice President
NAME
TITLE

Effective _____

Resolution No. _____

Schedule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN
WITH STAGED MANDATORY REDUCTIONS AND DROUGHT SURCHARGES (continued)

Page 11

H. STAGE FOUR WATER USE RESTRICTIONS (Continued)

[Stage 4 (cont.)]

2. WASTEFUL USES OF WATER (STAGE 4)

The following restrictions may be imposed by Cal Water, except where necessary to address an immediate health or safety need or to comply with a term or condition in a permit issued by a state or federal agency. Differences from or additions to previous Stages are underlined. (The following restrictions are the same as those provided in Stage 4 of Rule 14.1.)

- A. Irrigating ornamental landscape with potable water is prohibited, except when a hand-held bucket nozzle or device attached to it that causes it to cease dispensing water immediately when not in use or monitored is used to maintain vegetation, including trees and shrubs.
- B. **Obligation to Fix Leaks, Breaks or Malfunctions:** All leaks, breaks, or other malfunctions in the customer's plumbing fixtures or irrigation system must be repaired within one (1) business day of written notification by Cal Water, unless other arrangements are made with Cal Water.
- C. **Prohibited Uses of Water:** Customers are prohibited from using potable water for the following actions:
 - i. The application of potable water to landscapes in a manner that causes runoff such that water flows onto adjacent property, non-irrigated areas, private and public walkways, roadways, parking lots, or structures;
 - ii. The use of a hose that dispenses potable water to wash vehicles, including cars, trucks, buses, boats, aircraft, and trailers, whether motorized or not, except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use.
 - iii. The application of potable water to driveways and sidewalks;
 - iv. The use of potable water in a water feature, except where the water is part of a recirculating system;
 - v. The application of potable water to outdoor landscapes during and within forty-eight (48) hours after measurable rainfall;
 - vi. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased;
[Note that items previously identified as (ix) and (x) in Stage 3 have been eliminated.]
 - vii. Use of potable water for street cleaning with trucks (previous Stage allowed certain exceptions);
 - viii. Use of potable water for construction purposes, such as consolidation of backfill, dust control, or other uses (previous Stage allowed certain exceptions).
- D. Operators of hotels and motels shall provide guests with the option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guest room using clear and easily understood language.
- E. **Limits on Filling Ornamental Lakes or Ponds:** Filling or re-filling ornamental lakes or ponds with potable water is prohibited, except to the extent needed to sustain aquatic life, provided that such animals are of significant value and have been actively managed within the water feature prior to the implementation of any staged mandatory restrictions of water use as described in this Schedule.
- F. Other duly adopted restrictions on the use of potable water as prescribed from time to time by the Commission or other authorized government agencies are incorporated herein by reference.

(N)

(continued)

(To be inserted by utility)

Issued by

(To be inserted by Cal. P.U.C.)

Advice Letter No. 2168-A

PAUL G. TOWNSLEY

Date Filed

Decision No. -

NAME
Vice President
TITLE

Effective

Resolution No.

Schedule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN
WITH STAGED MANDATORY REDUCTIONS AND DROUGHT SURCHARGES (continued)

Page 12

APPENDIX A

Drought surcharges apply to all metered customers of potable water.

District	Tariff Area	Drought Surcharge Non-LIRA Customers (a)	Drought Surcharge LIRA Customers (b)	Minimum Monthly Water Budget (Ccf) (c)	Rate Support Fund (RSF) Areas
Antelope Valley	Fremont Valley & Lake Hughes	\$4.5200	\$2.2600	5	RSF Area
	Lancaster	\$7.1180	\$3.5590	5	
	Leona Valley	\$4.5200	\$2.2600	5	RSF Area
Bakersfield		\$4.1868	\$2.0934	7	
Bayshore	Mid-Peninsula	\$10.0000	\$5.0000	6	
	South San Francisco	\$5.6492	\$2.8246	6	
Bear Gulch		\$10.0000	\$5.0000	6	
Chico		\$3.1314	\$1.5657	6	
Dixon		\$7.9402	\$3.9701	7	
Dominguez		\$6.9934	\$3.4967	7	
East Los Angeles		\$3.7605	\$1.8803	9	
Grand Oaks		\$2.1236	\$1.0618	5	
Hermosa Redondo		\$9.1586	\$4.5793	5	
Kern River Valley		\$4.5200	\$2.2600	4	RSF Area
King City		\$6.7536	\$3.3768	9	
Livermore		\$7.6194	\$3.8097	6	
Los Altos		\$8.1608	\$4.0804	6	
Marysville		\$5.1470	\$2.5735	6	
Oroville		\$6.1840	\$3.0920	6	
Palos Verdes		\$9.5358	\$4.7679	6	
Redwood Valley		\$4.5200	\$2.2600	4	RSF Area
Salinas		\$5.7776	\$2.8888	7	
Selma		\$3.0122	\$1.5061	8	
Stockton		\$5.5506	\$2.7753	7	
Visalia		\$2.9796	\$1.4898	7	
Westlake		\$9.2378	\$4.6189	6	
Willows		\$4.1356	\$2.0678	6	

- (a) The Drought Surcharge is equal to two (2) times the highest residential tier rate with a \$10.00 maximum EXCEPT:
 The Drought Surcharge in Rate Support Fund (RSF) areas is equal to \$4.52.
 The Drought Surcharge for districts with a 10% or less water reduction requirement is equal to the highest residential tier rate.
- (b) The Drought Surcharge for LIRA customers is 50% of the Drought Surcharge for Non-LIRA customers.
- (c) The Minimum Water Budget is set at 55 gpcd (gallons per capita per day) multiplied by the number of people per household for the area according to the U.S. Census.

(N)

[end]

Schedule No. 14.1

(N)

WATER SHORTAGE CONTINGENCY PLAN
WITH STAGED MANDATORY REDUCTIONS AND DROUGHT SURCHARGES (continued)

Page 13

APPENDIX B

Supplier Name	Total Water Production 2013 (Jun - Feb)	Percent Saved (Jun-14 - Feb-15, compared to 2013)	Jul-Sep 2014 R-GPCD	Tier	Conservation Standard	Estimated Savings (Gallons)
California Water Service Company South San Francisco	2,075,673,590	8%	48.8	2	8%	166,053,887
California Water Service Company East Los Angeles	3,998,522,861	4%	51.4	2	8%	319,881,829
California Water Service Company King City	428,820,478	6%	67.7	3	12%	51,458,457
California Water Service Company Dominguez	8,444,765,582	4%	83.7	4	16%	1,351,162,493
California Water Service Company Salinas District	4,612,101,098	12%	86.0	4	16%	737,936,176
California Water Service Company Mid Peninsula	3,986,792,209	11%	87.4	4	16%	637,886,753
California Water Service Company Redwood Valley	108,182,674	24%	93.3	4	16%	17,309,228
California Water Service Company Hermosa/Redondo	2,984,799,071	0%	96.4	5	20%	596,959,814
California Water Service Company Stockton	6,808,665,567	7%	97.6	5	20%	1,361,733,113
California Water Service Company Livermore	2,781,467,781	31%	120.5	6	24%	667,552,267
California Water Service Company Marysville	575,127,769	14%	125.5	6	24%	138,030,664
California Water Service Company Oroville	830,595,287	18%	131.6	7	28%	232,566,680
California Water Service Company Dixon, City of	382,549,575	9%	144.3	7	28%	107,113,881
California Water Service Company Kern River Valley	222,882,376	10%	148.9	7	28%	62,407,065
California Water Service Company Willows	364,301,895	13%	168.6	7	28%	102,004,531
California Water Service Company Los Altos/Suburban	3,714,706,268	16%	173.8	8	32%	1,188,706,006
California Water Service Company Selma	1,492,399,536	17%	189.2	8	32%	477,567,851
California Water Service Company Visalia	8,033,215,230	11%	191.7	8	32%	2,570,628,874
California Water Service Company Bakersfield	18,863,864,960	11%	197.6	8	32%	6,036,436,787
California Water Service Company Chico District	6,759,462,002	16%	210.4	8	32%	2,163,027,841
California Water Service Company Bear Gulch	3,623,142,017	11%	252.5	9	36%	1,304,331,126
California Water Service Company Palos Verdes	5,184,622,055	4%	255.4	9	36%	1,866,463,940
California Water Service Company Antelope Valley	186,061,165	-16%	296.7	9	36%	66,982,019
California Water Service Company Westlake	2,085,449,133	8%	336.7	9	36%	750,761,688

(N)

(To be inserted by utility)
 Vice Letter No. 2168-A
 Decision No. -

Issued by
PAUL G. TOWNSLEY
NAME
Vice President
TITLE

(To be inserted by Cal. P.U.C.)
 Date Filed _____
 Effective _____
 Resolution No. _____



Antelope Valley District

ADVICE LETTER FILING MAILING LIST
PER SECTION 111 (G) OF GENERAL ORDER NO. 96-A

Interested Parties

Peggy Fuller, Treasurer
Leona Valley Town Council
P.O. Box 795
Leona Valley, CA 93551
pfuller@leonavalleytc.org

Jack L. Chacanaca
Leona Valley Cherry Growers Association
26201 Tuolumne St.
Mojave, CA 93501

Joseph S. Lucido, President
Leona Valley Cherry Growers Association
26201 Tuolumne St
Mojave, CA 93501

Service Area Maps Only

Los Angeles LAFCO
Executive Officer
383 Hall of Administration
Los Angeles, CA 90012

Fire Chief
Los Angeles County
500 W. Temple Street, Room 358
Los Angeles, CA 90012

CDF, Battalion 11
8723 Elizabeth Lake Road
Leona Valley, CA 93550



Bakersfield District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Competing and Adjacent Utilities:

City of Bakersfield
1501 Truxtun Avenue
Bakersfield, CA 93301501
jwstinson@bakersfieldcity.us

City of Bakersfield
Water Resources Dept.
1000 Buena Vista Rd.
Bakersfield, CA 93311
mrandall@bakersfieldcity.us

Casa Loma Water Company
1016 Lomita Drive
Bakersfield, CA 93307

East Niles Community Services District
Manager: Timothy Ruiz
P.O. Box 6038
Bakersfield, CA 93386-6038
Email: truiz@eastnilescsd.org

Victory Mutual Water Company
P.O. Box 40035
Bakersfield, CA 93304

Krista Mutual Water Company
7025 Cuddy Valley Road
Frazir Park, CA 93225

Oildale Mutual Water Company
Attn: Manager Douglas Nunneley
P.O. Box 5638
Bakersfield, CA 93388
Email: dnunneley@yahoo.com

Stockdale Annex Mutual Water Company
P.O. Box 9726
Bakersfield, CA 93386-9726



Bakersfield District

Other Utilities and Interested Parties Requesting Notification:

Kern County Water Agency
Attn: Eric Averett
P.O. Box 58
Bakersfield, CA 93302

Robert Norwood
2803 Loyola St.
Bakersfield, CA 93306

Service Maps

Kern County LAFCO
Executive Officer
5300 Lennox Avenue Ste.303
Bakersfield, CA 93309
Email: KCLAFCO@bak.rr.com

Kern County Fire Department
Attn: Fire Chief
1115 Truxtun Avenue
Bakersfield, CA 93301

City of Bakersfield
Attn: Fire Chief
2101 H St.
Bakersfield, CA 93301
Email: rfraze@bakersfieldfire.us



Bayshore District

ADVICE LETTER FILING MAILING LIST PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of San Carlos
Attn: Linda Navarro
600 Elm Street
San Carlos, CA 94070
Email: rweil@cityofsancarlos.org

City of San Mateo, City Hall
330 West 20th Ave.
San Mateo, CA 94403
Email: vhansen@cityofsanmateo.org

Adjacent Private and Public Utilities

Mid-Peninsula Water District
Attn: Tammy Rudock
P.O. Box 129
Belmont, CA 94002
tammyr@midpeninsulawater.org

Justin Ezell
Public Works Superintendent
1400 Broadway
Redwood City, CA 94063-2505
Email: jezell@redwoodcity.org

Ray Towne, Director of Public Works
Foster City
610 Foster City Blvd.
Foster City, CA 94404
Email: rtowne@fostercity.org

City of Burlingame
501 Primrose Rd.
Burlingame, CA 94010
Email: amorimoto@burlingame.org

Town of Hillsborough
1600 Floribunda Ave.
Hillsborough, CA 94010

City of South San Francisco
400 Grand Avenue
South San Francisco, CA 94080
Attn: Barry Nagal

San Bruno Water Department
567 El Camino Real
San Bruno, CA 94066

Daly City DWWR
Attn: Patrick Sweetland
153 Lake Merced Blvd.
Daly City, CA 94005
Email: psweetland@dalcycity.org

City of Brisbane
Attn: Betsy Cooper
50 Park Place
Brisbane, CA 94005
Email: bcooper@ci.brisbane.ca.us

Westborough Water District
P.O. Box 2747
South San Francisco, CA 94083



Bayshore District

Email: mdebry@hillsborough.net

ADVICE LETTER FILING MAILING LIST PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Other Interested Parties

Mr. John Gardner
Tilden Engineering
P.O. Box 897
Menlo Park, CA 94026

Service Area Maps Only

LAFCO (Local Agency Formation Commission)
Executive Officer, San Mateo LAFCO
County Government Center, Redwood City, CA 94063
Email: mpoyatos@co.sanmateo.ca.us

Fire Department Servicing
Affected Area



Bear Gulch District

ADVICE LETTER FILING MAILING LIST PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Menlo Park
Attn: Carol Augustine
701 Laurel Street
Menlo Park, CA 94025
Email: ctaugustine@menlopark.org

City of Menlo Park
Attn: Lisa Ekers
701 Laurel Street
Menlo Park, CA 94025
Email: leakers@menlopark.org

City of Palo Alto
Attn: Erik Keniston
250 Hamilton Avenue
Palo Alto, CA 94301
Email: eric.keniston@cityofpaloalto.org

Service Area Maps - only

Gail Sredanovic
2161 Ashton Avenue
Menlo Park, CA 94025

Town of Portola Valley
Public Works Director
765 Portola Rd.
Portola Valley, CA 94028
Email: hyoung@portolavalley.net

LAFCO
Executive Officer Ms. Martha Poyatos
455 County Center, 2nd Floor
Redwood City, CA 94063-1663

Town of Atherton
Attn: Duncan Jones
91 Ashfield Rd.
Atherton, CA 94027
Email: djones@ci.atherton.ca.us

Fire Department Servicing Affected Area

Town of Woodside
P.O. Box 620005
Woodside, CA 94062

Adjacent Private and Public Utilities

City of Menlo Park Water Dept.
701 Laurel Street
Menlo Park, CA 94025
Email: jpmcgirr@menlopark.org

Redwood City Water Department
P.O. Box 391
Redwood City, CA 94064

Los Trancos Water District
1263 Los Trancos Road
Portola Valley, CA 94025



Chico District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Chico
Attn: Frank Fields
P.O. Box 3420
Chico, CA 95927-3420
Email: ffields@ci.chico.ca.us

City of Chico
Attn: Dave Burkland
City Manager
P.O. Box 3420
Chico, Ca 95927
dburkland@ci.chico.ca.us

City of Chico
Attn: John Rucker
Assistant City Manager
P.O. Box 3420
Chico, Ca 95927
jrucker@ci.chico.ca.us

Service Area Maps

Butte LAFCO
1453 Downer Street, Suite C
Oroville, CA 95965
Email: jstover@buttecounty.net

(Service in Unincorporated Butte County)
Butte County Fire Rescue
Attn: Fire Chief
176 Nelson Ave
Oroville, CA 95965



Dixon District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Dixon
Attn: Finance Dept.
600 East A Street
Dixon, CA 95620
(Dixon finance department only wants notices of rate increases, not other filings)

Adjacent Private and Public Utilities

Solano Irrigation District
Attn: General Manager
508 Elmira Road
Vacaville, CA 95687
Email: admin@sidwater.org

Maine Prairie Water District
P.O. Box 73
Dixon, CA 95620

Service Area Maps

LAFCO (Local Agency Formation Commission)
Executive Officer
Solano LAFCO
675 Texas Street
Fairfield, CA 94533

Fire Chief
City of Dixon
600 East A Street
Dixon, CA 95620



Dominguez District

ADVICE LETTER FILING MAILING LIST
PER SECTION 111 (G) OF GENERAL ORDER NO. 96-A

Adjacent Privately and Publicly Owned Utilities

City of Torrance Water Department
Attn: Alan Berndt
20500 Madrona Ave
Torrance, CA 90630
Email: aberndt@torranceca.gov

City of Compton Municipal Water Department
205 S. Willowbrook Avenue
Compton, CA 90220

City of Los Angeles
Department of Water and Power
P.O. Box 51111, Room 956
Los Angeles, CA 90051-0100
Email: Richard.west@ladwp.com

City of Long Beach Water Department
1800 East Wardlow Road
Long Beach, CA 90807

Golden State Water Company
Attn: Regulatory Affairs
630 East Foothill Blvd.
San Dimas, CA 91733

Park Water Company
P.O. Box 7002
Downey, CA 90241-7002
Email: pwcadviceletterservice@parkwater.com

Service Area Maps

Los Angeles LAFCO
Executive Officer
383 Hall of Administration
Los Angeles, Ca 90012

Fire Department Servicing Affected Area



East Los Angeles District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Commerce
Attn: Bob Zarrihi
2535 Commerce Way
Commerce, CA 90040

City of Montebello, Engineering Dept
Attn: Roberta King,
1600 W. Beverly Blvd.
Montebello, CA 90640

City of Vernon
4305 Santa Fe Ave.
Vernon, CA 90058

City of Monterey Park
Attn: Victor Meza
Water Department
320 W. Newmark Ave.
Monterey Park, CA 91754

City of Los Angeles
Dept. of Water & Power
Attn: Richard West
P.O. Box 51111, Room 956
Los Angeles, CA 90051-0100
Email: richard.west@ladwp.com

Adjacent Private and Public Utilities

Park Water Company
P.O. Box 7002
Downey, CA 90241-7002
Email: pwcadviceletterservice@parkwater.com

San Gabriel Valley Water Company
Attn: Daniel A. Dell'Osa
11142 Garvey Ave.
El Monte, CA 91733
Email: dadellosa@sgvwater.com

Montebello Land & Water Company
Attn: Kenneth S. Bradbury
344 E. Madison Avenue
Montebello, CA 90640
Email: ken@mtblw.com

South Montebello Irrigation District
Attn: David Herrera
864 W. Washington Blvd.
Montebello, CA 90640

Service Area Maps

Los Angeles LAFCO
Executive Officer
383 Hall of Administration
Los Angeles, CA 90020

Los Angeles County Fire Dept.
Attn: Alfie Blanch
5847 Rickenbacker Rd.
Commerce, CA 90040
ablanch@fire.lacounty.gov

Fire Department Servicing Affected Area



Hermosa-Redondo District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Hermosa Beach
1315 Valley Drive
Hermosa Beach, CA 90254
Email: rmorgan@hermosabch.org

City of Redondo Beach, Public Works Dept.
Attn: Rob Osborne
415 Diamond Street,
Redondo Beach, CA 90277
Email: rob.osborne@redondo.org

City of Torrance, Dept. of Water
Attn: Alan Berndt
20500 Madrona Ave
Torrance, CA 90630
Email: ab Berndt@torranceca.gov

Adjacent Private and Public Utilities

City of Manhattan Beach
Attn: Rob Erikson
3621 Bell Avenue
Manhattan Beach, CA 90266

City of Hawthorne
4455 W. 126th St.
Hawthorne, CA 90250

City of Los Angeles, Dept. of Water & Power
Mr. Richard A. West, Rates Manager
P.O. Box 51111, Room 956
Los Angeles, CA 90051-0100
Email: richard.west@ladwp.com

Golden State Water Company
Attn: Ronald Moore, Regulatory Affairs
630 East Foothill Blvd.
San Dimas, CA 91773

Park Billing Company
Attn: Tina Davis and Vicky Miller
P. O. Box 910
Dixon, CA 95620
Email: vmiller@parkbilling.com
Email: tdavis@parkbilling.com

Service Area Maps

Los Angeles LAFCO
Executive Officer
383 Hall of Administration
Los Angeles, Ca 90012

Los Angeles County Fire Dept.
Attn: Alfie Blanch
5847 Rickenbacker Rd.
Commerce, CA 90040
ablanch@fire.lacounty.gov

Fire Department Servicing Affected Area



Kern River Valley District

ADVICE LETTER FILING MAILING LIST
PER SECTION 111 (G) OF GENERAL ORDER NO. 96-A

Interested Parties

Jim Davis
8824 Cache
Leona Valley, CA 93551

Rob Benson
PO Box 1557
Kernville, Ca 93238
rcbenson@earthlink.net

Darlene Studdard
Committee Member
Residents Against Water Rates
PO Box 3701
Wofford Heights, Ca 93285-3701
For: Residents Against Water Rates (Raw)

Jeremy Callihan
Department of Water Resources
Safe Drinking Water Program
1416 Ninth Street, Rm. 816
Sacramento, CA 95814

Linda Ng
Department of Water Resources
Safe Drinking Water Program
1416 Ninth Street, Rm. 816
Sacramento, CA 95814

Service Area Map only

Kern County LAFCO
Executive Officer
5300 Lennox Avenue
Suite 303
Bakersfield, CA 93309
Email: KCLAFCO@bak.rr.com



King City District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

King City
212 S. Vanderhurst Avenue
King City, CA 93930
Attn: Jim Larson, Finance Director

Adjacent Private and Public Utilities

Little Bear Water Company
51201 Pine Canyon Road, Space #125
King City, CA 93930

Park Billing Company
Attn: Tina Davis and Vicky Miller
P. O. Box 910
Dixon, CA 95620
Email: vmiller@parkbilling.com
Email: tdavis@parkbilling.com

Service Area Maps Only

Kate McKenna, E.O.
LAFCO of Monterey County
Local Agency Formation Commission
P O Box 1369, Salinas, CA 93902

Fire Chief
King City
212 S. Vanderhurst Avenue
King City, CA 93930



Livermore District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Livermore
Utility Billing Division
Attn: Erik Peterson
1052 S. Livermore Ave.
Livermore, CA 94550
Email: etpeterson@ci.livermore.ca.us

Alameda County Flood Control
& Water Conservation District
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

Service Area Maps Only

Mona Palacios Executive Officer
Alameda LAFCO
1221 Oak Street Room 555
Oakland, CA 94612
Email: mona.palacios@acgov.org

Fire Chief
City of Livermore
1052 S. Livermore Avenue
Livermore, CA 94550



Los Altos District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Cupertino
Attn: Timm Borden
10300 Torre Avenue
Cupertino, CA 95014-3202

City of Los Altos
Attn: Jim Gustafson
1 North San Antonio Rd.
Los Altos, CA 94022

Town of Los Altos Hills
Attn: Carl Cahill
26379 Fremont Road
Los Altos Hills, CA 94022

Adjacent Private and Public Utilities

San Jose Water Company
Attn: Palle Jensen
374 W. Santa Clara St.
San Jose, CA 95196
Email: palle.jensen@sjwater.com

Purissima Hills County Water District
Attn: Patrick D. Walter
26375 Fremont Rd.
Los Altos, CA 94022
Email: pwalter@purissimawater.org

City of Mountain View, Water Dept.
231 N. Whisman Rd.
Mt. View, CA 94043
Email: will.medina@mountainview.gov

City of Sunnyvale, Water Dept.
Attn: Val Conzet Water Operations Manager
P.O. Box 3707
Sunnyvale, CA 94088-3703
Email: vconzet@ci.sunnyvale.ca.us
jperry@ci.sunnyvale.ca.us

City of Santa Clara, Water Dept.
Attn: Alan Kurotori
Water and Sewer Utilities
1500 Warburton Ave.
Santa Clara, CA 95050

City of Palo Alto, City Hall
Attn: Catherine Cox
250 Hamilton Ave.
Palo Alto, CA 94301
Email: catherine.cox@cityofpaloalto.org

Other Parties Requesting Notification

Great Oaks Water Company
15 Great Oaks Blvd. #100
San Jose, CA 95119
Email: bloehr@greatoakswater.com

Santa Clara Valley Water District
5750 Almaden Expressway
San Jose, CA 95118
Email: dtaylor@valleywater.org

Service Area Maps Only

LAFCO of Santa Clara County
Neelima Palacherla, Executive Director
70 W. Hedding St. 11th Floor
San Jose, CA 95110
Email: neelima.palacherla@ceo.sccgov.org

Fire Department Serving Affected Area



Marysville District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Marysville
Attn: Dixon Coulter
P.O. Box 150
Marysville, CA 95901
Email: dcoulter@marysville.ca.us

Adjacent Private and Public Utilities

City of Yuba City
Utilities Director
302 Burns Drive
Yuba City, CA 95991

Olivehurst Public Utility District
Attn: Gary Plasterer
P.O. Box 670
Olivehurst, CA 95961

Linda County Water District
Attn: Dave Gothrow, Mgr.
1280 Scales
Marysville, CA 95901

Service Area Maps only

Yuba County LAFCO
915 8th Street, Suite 107
Marysville, CA 95901

CDF – Northern Region Chief
P.O. Box 944246
Sacramento, CA 94244-2460

Fire Department Serving Affected Area



Oroville District

ADVICE LETTER FILING MAILING LIST
PER SECITON III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Oroville
Attn: Diane MacMillian
1735 Montgomery Street
Oroville, CA 95965

Adjacent Private and Public Utilities

Thermalito Irrigation District
Attn: Jayme Boucher
410 Grand Ave.
Oroville, CA 95965
Email: jboucher@twsd.info

South Feather Water & Power
Attn: Mike Glaze
2310 Oroville Quincy Hwy.
Oroville, CA 95966
Email: glaze@southfeather.com

Service Area Maps Only

Butte County LAFCO
1453 Downer St. Ste. C
Oroville, CA 95965
Email: jstover@buttecounty.net

Fire Chief
City of Oroville
1735 Montgomery Street
Oroville, CA 95965



Palos Verdes District

ADVICE LETTER FILING MAILING LIST
PER SECITON III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Lomita
Attn: Woody Thurlow
P.O. Box 339
Lomita, CA 90717

City of Palos Verdes Estates
Attn: Judy Smith
340 Palos Verdes Drive West
Palos Verdes Estates, CA 90274
Email: cityclerk@pvestates.org

City of Rancho Palos Verdes
30940 Hawthorne Blvd.
Rancho Palos Verdes, CA 90275
Email: publicworks@rpv.com

City of Rolling Hills
No. 2 Portuguese Bend Road
Rolling Hills, CA 90274
Email: hluce@cityofrh.net

City of Rolling Hills Estates
Attn: Mike Whitehead
4045 Palos Verdes Drive North
Rolling Hills Estates, CA 90274

Adjacent Private and Public Utilities

City of Torrance, Water Dept.
Attn: Alan Berndt
20500 Madrona Ave
Torrance, CA 90630
Email: aberndt@torranceca.gov

Mr. Richard A. West, Rates Manager
City of Los Angeles, Dept. of Water & Power
P.O. Box 51111
Los Angeles, CA 90051-0100
Email: richard.west@ladwp.com

Service Area Maps

Los Angeles LAFCO
Executive Officer
383 Hall of Administration
Los Angeles, CA 90012

Los Angeles County Fire Dept.
Attn: Alfie Blanch
5847 Rickenbacker Rd.
Commerce, CA 90040
ablanch@fire.lacounty.gov

Fire Department Servicing Affected Area



Redwood Valley District

ADVICE LETTER FILING MAILING LIST PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Jeffrey Young
473 Woodley Place
Santa Rosa, CA 95409
Email: jffyng@gmail.com

Marcos Pareas
P. O. Box 152
Dillon Beach, CA 94929
Email: mapreas@gmail.com

County of Marin
Director of Public Works
P. O. Box 4186
San Rafael, CA 94913-4186

County of Lake
Special Districts
230 North Main
Lakeport, CA 95453

Joshua Ziese
California Department of Public Health
P.O. Box 997377, MS 7418
1616 Capital Ave.
Sacramento, CA 95899

Lance Reese
California Department of Public Health
P.O. Box 997377, MS 7418
1616 Capital Ave.
Sacramento, CA 95899

Service Area Maps only

County of Marin LAFCO
3501 Civic Center Drive
San Rafael, CA 94903

Fire Department Serving Affected Area



Salinas District

ADVICE LETTER MAILING LIST PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Salinas
City Engineer
200 Lincoln Avenue
Salinas, CA 93901

City of Salinas
City Attorney
200 Lincoln Avenue
Salinas, CA 93901
Email: vanessav@ci.salinas.ca.us
Email: chrisc@ci.salinas.ca.us

Adjacent Private and Public Utilities

Park Billing Company
Attn: Tina Davis and Vicky Miller
P.O. Box 910
Dixon, CA 95620
Email: vmiller@parkbilling.com
Email: tdavis@parkbilling.com

Gavilan Water Company
644 San Juan Grade Road
Salinas, CA 93906

Alco Water Service
Attn: Tom Adcock
249 Williams Road
Salinas, CA 93905

Monterey County Administration
855 East Laurel Drive, Bldg C
Salinas, CA 93905

Service Area Maps

Executive Officer
LAFCO of Monterey County
P.O. Box 1369
Salinas, CA 93902

Fire Chief
City of Salinas
200 Lincoln Avenue
Salinas, CA 93901



Selma District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Selma, City Hall
1710 Tucker Street
Selma, CA 93662
Email: DBH@CityofSelma.com

Adjacent Private and Public Utilities

City of Fowler
Attn: D. Weisser
128 S. 5th Street
Fowler, CA 93625
Email: DWeisser@ci.fowler.ca.us

Other Parties Request Notification

City of Fresno, Dept. of Public Works
2600 Fresno Street
Fresno, CA 93721-3624

Service Area Maps only

LAFCO (Local Agency Formation Commission)
Attn: Executive Officer
2115 Kern St. Ste.310
Fresno, CA 93721
Email: jewitte@co.fresno.ca.us

Fire Chief
City of Selma
1710 Tucker Street
Selma, CA 93662



Stockton District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Stockton
Attn: Sara Cortes
425 N. El Dorado St.
Stockton, CA 95202

San Joaquin County Board of Supervisors
44 N. San Joaquin St. Ste. 627
Stockton, CA 95202
Email: lsahyoun@sjgov.org

Adjacent Private and Public Utilities

City of Stockton Municipal Utility Dept.
2500 Navy Drive
Stockton, CA 95206

Director of Public Works, County of San Joaquin
1810 East Hazelton Ave.
Stockton, CA 95205
Email: vaguilar@sjgov.org

Stockton-East Water District
6767 East Main Street
Stockton, CA 95215
Email: sewd@sewd.net

Other Parties Requesting Notification

Heinz, USA
Attn: Tom McMurty
P.O. Box 57
Stockton CA 95201

Commanding Officer (Code 136)
Naval Facilities Engineering Com.
Re: Cont. #N68711-74-M-7250-P00999
Cont. #N68711-75-C-5006-P00999
1220 Pacific Highway
San Diego CA 92132

Service Area Maps

San Joaquin LAFCO
509 W. Weber Ave. Ste 420
Stockton, CA 95203

City of Stockton
Fire Chief
425 North El Dorado St.
Stockton, CA 95202

Park Billing Company
Attn: Tina Davis and Vicky Miller
P. O. Box 910
Dixon, CA 95620
Email: vmiller@parkbilling.com
Email: tdavis@parkbilling.com

Pearl West
3731 Portsmouth Circle North
Stockton, CA 95219



Visalia District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Visalia
c/o Dooley, Herr, Carlson & Peltzer
100 Willow Plaza, Suite 300
Visalia, CA 93291
Attn: Kenneth Richardson
559-636-5600 Fax 559-636-9759
559-636-5601 Email: kenr@dhlaw.net

Osa Wolff
wolff@smwlaw.com

Adjacent Private and Public Utilities

Bedel Water Company
Attn: Glen Lublin
2536 E. College Ave
Visalia, CA 93292
559-713-0794

Service Area Maps

Tulare County Resource Management Agency
LAFCO
Executive Officer
5961 S. Mooney Blvd.
Visalia, CA 93277
559-733-6291 Fax 559-730-2653

Fire Chief
City of Visalia
707 West Acequia Street
Visalia, CA 93291



Westlake District

ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A

Municipalities and Governmental Agencies

City of Thousand Oaks
Attn: Jay Spurgin, Deputy Public Works Director
2100 Thousand Oaks Blvd.
Thousand Oaks, CA 91362-2903

Adjacent Private and Public Utilities

City of Los Angeles, Dept. of Water & Power
Mr. Richard A. West, Rates Manager
P.O. Box 51111, Room 956
Los Angeles, CA 90051-0100
Email: Richard.west@ladwp.com

California-American Water Company
4701 Beloit Drive
Sacramento, CA 95838-2434
Email: ca.rates@amwater.com

Ventura Regional Sanitation District
Attn: Jocelyn Blysmá
1001 Partridge Dr., Suite 150
Ventura, CA 93003

Las Virgenes Municipal Water District
Attn: Carol Palma
4232 Las Virgenes Road
Calabasas, CA 91302

Service Area Maps

Fire Department Servicing Affected Area
Ventura LAFCO
Executive Officer
800 S. Victoria Avenue
Ventura, CA 93009-1850
Email: kim.uhlich@ventura.org



Willows District

**ADVICE LETTER FILING MAILING LIST
PER SECTION III (G) OF GENERAL ORDER NO. 96-A**

City of Willows
Civic Center
201 N. Lassen Street
Willows, CA 95988

Service Area Maps Only

Christy Leighton, Executive Officer
County of Glenn Local Agency Formation Commission
125 South Murdock
Willows, California 95988

Fire Chief
City of Willows
201 North Lassen Street
Willows, CA 95988
Email: wpeabody@cityofwillows.org



WATER EFFICIENCY IN LANDSCAPING ORDINANCE Plan Requirements

Town of Atherton
Building Department
91 Ashfield Road
Atherton, California 94027
Phone: (650) 752-0560

Atherton Municipal Code Chapter 15.48
www.codepublishing.com/CA/atherton.html

All new construction and rehabilitated landscapes with irrigated landscape areas greater than 5,000 square feet, requiring a building or landscape permit, plan check, or requiring new or expanded water service (Generally; new homes, projects that require a grading permit (including replacing turf or replacements that exceed 5000 S.F.)

Submittal requirements:

- Landscape plan**, including planting plan shall include the following:
 - Delineate & label each hydrozone
 - Identify each hydrozone as low, moderate, high water, or mixed water use
 - Identify type of mulch and application depth
 - Identify hardscape areas
 - The landscape & Irrigation Design Plan shall include the following statement on the plans, “I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them for the efficient use of water in the Landscape and Irrigation Design Plan” *
- Irrigation System Design Plan*** shall include the following:
 - Location and size of water meter(s)
 - Location, type and size of all components of the irrigation system, including weather based controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators and backflow prevention devices
 - Static water pressure at the point of connection to the public water supply
 - Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station
 - Irrigation Schedule
- Grading** – If the landscape project includes grading of 50 cubic yards or more or disturbs more than 5000 S.F. of earth or meet any of the criteria on the Grading and Drainage Checklist a detailed grading plan/civil drawings permit submittal is required. Checklist is available at www.ci.atherton.ca.us
- Outdoor Water Use Efficiency Checklist** – either the project applicant or certified/authorized professional shall complete the submittal checklist.
- Water Budget Calculations** (if more than 25% of the LS area is turf, water budget calcs are required)

A post installation Landscape Audit Report is required to be submitted by a certified/authorized professional prior to Building Final of the project.

Chapter 15.48 WATER-EFFICIENT LANDSCAPING

Sections:

- [15.48.010](#) Applicability.
- [15.48.020](#) Definitions.
- [15.48.030](#) Water conservation in landscaping ordinance requirements.
- [15.48.040](#) Compliance with ordinance.
- [15.48.050](#) Landscape project application.
- [15.48.060](#) Outdoor water use efficiency checklist.
- [15.48.070](#) Water budget calculations.
- [15.48.080](#) Landscape and irrigation design plans.
- [15.48.090](#) Landscape audit report.
- [15.48.100](#) Landscape and irrigation maintenance schedule.
- [15.48.110](#) Provisions for existing landscapes over one acre in size.
- [15.48.120](#) Penalties.
- [15.48.130](#) Public education.

15.48.010 Applicability.

- A. The provisions of this chapter shall apply to all newly constructed and rehabilitated landscapes with irrigated landscape areas equal to or greater than five thousand square feet requiring a building or landscape permit, plan check or design review or requiring new or expanded water service.
- B. The provisions of this chapter shall not apply to:
1. New construction or rehabilitated landscapes with irrigated landscape areas less than five thousand square feet or that do not require a building or landscape permit, plan check or design review, or new or expanded water service;
 2. Landscapes, or portions of landscapes, that are only irrigated for an establishment period;
 3. Registered local, state or federal historical sites where landscaping establishes a historical landscape style, as determined by a public board or commission responsible for architectural review or historic preservation;
 4. Community gardens or plant collections, as part of botanical gardens and arboretums that are open to the general public. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.020 Definitions.

- A. "Applied water" means the portion of water supplied by the irrigation system to the landscape.
- B. "Automatic irrigation controller" means an automatic timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.
- C. "Backflow prevention device" means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.
- D. "Certified irrigation designer" means a person certified to design irrigation systems by an accredited academic institution, a professional trade organization or other program such as the U.S. Environmental Protection Agency's

WaterSense irrigation designer certification program and Irrigation Association's certified irrigation designer program.

E. "Certified landscape irrigation auditor" means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the U.S. Environmental Protection Agency's WaterSense irrigation auditor certification program and Irrigation Association's certified landscape irrigation auditor program.

F. "Certified professional" or "authorized professional" means a certified irrigation designer, a certified landscape irrigation auditor, a licensed landscape architect, a licensed landscape contractor, a licensed professional engineer, or any other person authorized by the state to design a landscape, an irrigation system, or authorized to complete a water budget.

G. "Conversion factor" means the number (sixty-two-hundredths) that converts acre-inches per acre per year to gallons per square foot per year.

H. "Drip irrigation" means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.

I. "Ecological restoration project" means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.

J. "Effective precipitation" or "usable rainfall" (Eppt) means the portion of total precipitation which becomes available for plant growth.

K. "Establishment period" means the first year after installing the plant in the landscape or the first two years if irrigation will be terminated after establishment.

L. "Estimated total water use" (ETWU) means the total water used for the landscape as described in Section [15.48.070](#), Water budget calculations.

M. "ET adjustment factor" (ETAF) means a factor that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. ETAF for a special landscape area shall not exceed one. ETAF for existing non-rehabilitated landscapes shall not exceed eight-tenths.

N. "Evapotranspiration rate" means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.

O. "Flow rate" means the rate at which water flows through pipes, valves and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.

P. "Hardscapes" means any durable material (pervious and non-pervious).

Q. "Hydrozone" means a portion of the landscaped area having plants with similar water needs. A hydrozone may be irrigated or non-irrigated.

R. "Invasive plant species" means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database.

S. "Irrigation audit" means an in-depth evaluation of the performance of an irrigation system. An irrigation audit includes,

but is not limited to: inspection, system tune-up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule.

T. "Irrigation efficiency" (IE) means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The minimum average irrigation efficiency for purposes of this chapter is seventy percent. Greater irrigation efficiency can be expected from well-designed and maintained systems.

U. "Irrigation survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test, and written recommendations to improve performance of the irrigation system.

V. "Irrigation water use analysis" means an analysis of water use data based on meter readings and billing data.

W. "Landscape architect" means a person who holds a license to practice landscape architecture in California as further defined by the California Business and Professions Code, Section [5615](#).

X. "Landscape area" means all the planting areas, turf areas, and water features in a landscape design plan subject to the maximum applied water allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation), agricultural uses, commercial nurseries and sod farms.

Y. "Landscape contractor" means a person licensed by the state of California to construct, maintain, repair, install, or subcontract the development of landscape systems.

Z. "Landscape project" means the total area comprising the landscape area, as defined in this chapter.

AA. "Lateral line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.

BB. "Local water purveyor" means any entity, including a public agency, city, county, district or private water company that provides retail water service.

CC. "Low volume irrigation" means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers.

DD. "Low water use plant" means a plant species whose water needs are compatible with local climate and soil conditions. Species classified as "very low water use" and "low water use" by WUCOLS (defined in subsection EEE of this section), having a regionally adjusted plant factor of zero through three-tenths, shall be considered low water use plants.

EE. "Maximum applied water allowance" (MAWA) means the upper limit of annual applied water for the established landscaped area as specified in Section [15.48.070](#), Water budget calculations.

FF. "Mulch" means any organic material such as leaves, bark, straw, compost, or inorganic mineral materials such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.

GG. "Native plant" means a plant indigenous to a specific area of consideration. For the purposes of this chapter, the term shall refer to plants indigenous to the coastal ranges of Central and Northern California, and more specifically to such plants that are suited to the ecology of the present or historic natural community(ies) of the project's vicinity.

HH. "New construction" means the construction of a new building or structure containing a landscape or other new land improvement, such as a park, playground, or greenbelt without an associated building.

II. "No-water using plant" means a plant species with water needs that are compatible with local climate and soil conditions such that regular supplemental irrigation is not required to sustain the plant after it has become established.

JJ. "Noxious weeds" means any weed designated by the Weed Control Regulations in the Weed Control Act and identified on a regional district noxious weed control list.

KK. "Operating pressure" means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.

LL. "Overhead sprinkler irrigation systems" means systems that deliver water through the air (e.g., spray heads and rotors).

MM. "Overspray" means the irrigation water which is delivered beyond the target area.

NN. "Permit" means an authorizing document issued by local agencies for new construction or rehabilitated landscapes.

OO. "Pervious" means any surface or material that allows the passage of water through the material and into the underlying soil.

PP. "Plant factor" or "plant water use factor" is a factor, when multiplied by ETo (defined in subsection UU of this section), estimates the amount of water needed by plants.

QQ. "Precipitation rate" means the rate of application of water measured in inches per hour.

RR. "Project applicant" means the individual or entity submitting a landscape project application required under Section [15.48.050](#), to request a permit, plan check, or design review from the local agency or requesting new or expanded water service from the water district. A project applicant may be the property owner or his or her designee.

SS. "Rain sensor" or "rain sensing shutoff device" means a component which automatically suspends an irrigation event when it rains.

TT. "Recreational area" means areas open to the general public dedicated to active play such as parks, sports fields, and golf courses where turf provides a playing surface.

UU. "Reference evapotranspiration" or "ETo" means a standard measurement of environmental parameters which affect the water use of plants.

VV. "Rehabilitated landscape" means any re-landscaping project that requires a permit, plan check, design review, or requires a new or expanded water service application.

WW. "Runoff" means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area.

XX. "Soil moisture sensing device" or "soil moisture sensor" means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.

YY. "Special landscape area" (SLA) means an area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, water features using recycled water and areas open to the public dedicated to active play such as parks,

sports fields, golf courses, and where turf provides a playing surface.

ZZ. "Sprinkler head" means a device which delivers water through a nozzle.

AAA. "Station" means an area served by one valve or by a set of valves that operate simultaneously.

BBB. "Turf" means a ground cover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, perennial ryegrass, red fescue, and tall fescue are cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are warm-season grasses.

CCC. "Valve" means a device used to control the flow of water in the irrigation system.

DDD. "Water feature" means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied).

EEE. "WUCOLS" means the Water Use Classification of Landscape Species published by the University of California Cooperative Extension, the Department of Water Resources and the Bureau of Reclamation, 2000. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.030 Water conservation in landscaping ordinance requirements.

A. All owners of new construction and rehabilitated landscapes of applicable sizes shall: (1) complete the landscape project application (Section 15.48.050) and (2) comply with the landscape and irrigation maintenance schedule (Section 15.48.100) requirements of this chapter.

B. All owners of existing landscapes over one acre in size, even if installed before enactment of this chapter, shall: (1) comply with Atherton's programs that may be instituted relating to irrigation audits, surveys and water use analysis, and (2) shall maintain landscape irrigation facilities to prevent water waste and runoff. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.040 Compliance with ordinance.

A. The town shall:

1. Provide the project applicant with the ordinance and landscape project application requirements and the procedures for permits, plan checks, design reviews, or new or expanded water service;
2. Review the landscape project application submitted by the project applicant;
3. Approve or deny the project applicant's landscape project application submittal;
4. Issue or approve a permit, plan check or design review that complies with the approved landscape project application or approve a new or expanded water service application that complies with the approved landscape project application.

B. The project applicant shall:

1. Prior to construction, submit all portions of the landscape project application, except the landscape audit report, to the town's building/planning department; and
2. After construction, submit the landscape audit report portion of the landscape project application to the building/planning department. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.050 Landscape project application.

A. The elements of a landscape must be designed to achieve water efficiency and will comply with the criteria described in this chapter. In completing the landscape project application, project applicants may choose one of two options to demonstrate that the landscape meets this chapter's water efficiency goals. Regardless of which option is selected, the applicant must complete and comply with all other elements of this chapter. The options include:

1. Planting Restrictions.
 - a. The turf area may not be more than twenty-five percent of the landscaped area; and
 - b. At least eighty percent of the plants in non-turf landscape areas shall be native plants, low-water using plants, or no-water using plants; or
2. Water budget calculation option (Section 15.48.070).

B. The landscape project application shall include the following elements:

1. Project information;
2. Outdoor water use efficiency checklist;
3. Water budget calculations, if applicant selects to use a water budget approach rather than comply with the turf area limitations or specified plant type restrictions;
4. Landscape and irrigation system design plans; and
5. Landscape audit report. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.060 Outdoor water use efficiency checklist.

The town of Atherton has developed an outdoor water use efficiency checklist (checklist), based on the criteria described below. Either the project applicant or a certified or authorized professional shall complete the checklist and submit it to the Atherton building/planning department along with the landscape and irrigation design plan.

A. Plant Material.

1. Each hydrozone shall have plant materials with similar water use that are selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site.
2. The turf area shall not be more than twenty-five percent of the landscape area unless the project applicant develops a site-specific water budget and the ETWU of the landscape area does not exceed the MAWA.
3. Turf shall not be planted on slopes greater than twenty-five percent or in areas that are less than eight feet wide, unless irrigated with subsurface irrigation or a low volume irrigation system.
4. At least eighty percent of the plants in non-turf landscape areas shall be native plants, low-water using plants, or no-water using plants, unless the project applicant develops a site-specific water budget and the ETWU of the landscaped area does not exceed the MAWA.
5. Fire-prone plant materials and highly flammable mulches should be avoided.
6. The use of invasive and/or noxious plant species is strongly discouraged.

7. The architectural guidelines of a common interest development shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.

B. Mulch. A minimum two-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas, although a three-inch layer is recommended.

C. Irrigation System. An irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management, and maintenance.

1. Landscapes are required to have automatic irrigation controllers that utilize either evapotranspiration or soil moisture sensor data for irrigation scheduling.
2. Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems.
3. Rehabilitated landscapes greater than two thousand five hundred square feet shall have automatic irrigation controllers that utilize either evapotranspiration or soil moisture sensor data for irrigation scheduling and sensors, either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions.
4. The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions.
5. Low volume irrigation shall be in mulched areas, in areas with slope greater than twenty-five percent, and within twenty-four inches of a non-permeable surface, or in narrow or irregularly shaped areas that are less than eight feet in width in any direction.
6. Average irrigation efficiency is assumed to be seventy percent for the purpose of calculating estimated total water use in water budget calculations. Irrigation systems shall be designed, maintained, and managed to meet or exceed an average landscape irrigation efficiency of seventy percent.
7. Irrigation shall be scheduled between eight p.m. and ten a.m., unless unfavorable weather prevents it or otherwise renders irrigation unnecessary.
8. Although not required, it is highly recommended to install dedicated landscape water meters for residential landscape areas greater than five thousand square feet.

D. Hydrozone.

1. Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use.
2. Sprinkler heads and other emission devices shall be selected based on what is appropriate for the plant type within that hydrozone.
3. Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf.
4. Individual hydrozones that mix plants with different water uses may be allowed if a water budget is performed, and the plant factor calculation is based on the proportion of the respective plant water uses or the plant factor of the higher water using plant is used.

E. Water Features.

1. Recirculating water systems shall be used for water features.
2. The surface area of a water feature shall not exceed ten percent of the landscape area and will be counted as a high-water using plant for purposes of a water budget calculation.
3. Although not required, pool and spa covers are highly recommended.

F. Soil Amendments. Soil amendments, such as compost, shall be incorporated according to the soil conditions at the project site and based on what is appropriate for the selected plants. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.070 Water budget calculations.

Project applicant may elect to complete a water budget calculation for the landscape project. Water budget calculations must be completed by a certified or authorized professional. Water budget calculations, if prepared, shall adhere to the following requirements:

- A. The plant factor used shall be from WUCOLS. The plant factor ranges from zero to three-tenths for low water use plants, from four-tenths to six-tenths for moderate water use plants, and from seven-tenths to one for high water use plants.
- B. The wet surface areas of all non-covered water features shall be included in the high water use hydrozone. The covered wet surface areas of pools and spas equipped with covers shall be included in the medium use hydrozone.
- C. All special landscape areas (SLA) shall be identified and their water use included in the water budget calculations.
- D. The reference evapotranspiration adjustment factor (ETAF) for SLA shall not exceed one. The ETAF for all other landscaped areas shall not exceed seven-tenths.
- E. Irrigation system efficiency shall be greater than or equal to seventy percent.
- F. Maximum applied water allowance (MAWA) shall be calculated using the equation below:

$$\text{MAWA} = (\text{ETo}) (0.62) [(0.7 \times \text{LA}) + (0.3 \times \text{SLA})]$$

Where:

MAWA	=	Maximum Applied Water Allowance (gallons per year)
ETo	=	Reference Evapotranspiration (inches per year)
0.62	=	Conversion Factor (to gallons)
0.7	=	Reference Evapotranspiration Adjustment Factor (ETAF)
LA	=	Landscape Area Including SLA (square feet)
0.3	=	Additional Water Allowance for

SLA

SLA = Special Landscape Area (square feet)

G. The town or project applicant may consider effective precipitation (twenty-five percent of annual precipitation) in tracking water use and may use the following equation to calculate the MAWA:

$$MAWA = (ET_o - Eppt) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

H. Estimated total water use (ETWU) shall be calculated using the equation below. The sum of the ETWU calculated for all hydrozones shall not exceed the MAWA.

$$ETWU = (ET_o)(0.62) \left(\frac{PF \times HA}{IE} + SLA \right)$$

Where:

ETWU = Estimated Total Water Use per Year (gallons)

ET_o = Reference Evapotranspiration (inches)

PF = Plant Factor from WUCOLS (see Section 491)

HA = Hydrozone Area [high, medium, and low water use areas] (square feet)

SLA = Special Landscape Area (square feet)

0.62 = Conversion Factor

IE = Irrigation Efficiency (minimum 0.70)

(Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.080 Landscape and irrigation design plans.

A. The components of the landscape and irrigation design plan shall be prepared as follows:

1. The landscape design portion shall be prepared by, and bear the signature of, a licensed landscape architect, licensed landscape contractor, or that of a certified or authorized professional; and
2. The irrigation design portion shall be prepared by, and bear the signature of, a licensed landscape architect, certified irrigation designer, licensed landscape contractor, or that of a certified or authorized professional.

B. The landscape design portion of the landscape and irrigation design plan, at a minimum, shall:

1. Delineate and label each hydrozone;
2. Identify each hydrozone as low, moderate, high water, or mixed water use;
3. Identify special landscape areas (i.e., recreational areas; areas permanently and solely dedicated to edible plants; areas irrigated with recycled water);
4. Identify type of mulch and application depth;
5. Identify type and surface area of water features and any covers;
6. Identify hardscapes (pervious and non-pervious); and
7. Contain the following statement:

I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them for the efficient use of water in the Landscape and Irrigation Design Plan.

C. The irrigation design portion of the landscape and irrigation design plan, at a minimum, shall contain:

1. Location and size of water meters;
2. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads, moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices;
3. Static water pressure at the point of connection to the public water supply;
4. Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station;
5. Irrigation schedule;
6. The following statement:

I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the Landscape and Irrigation Design Plan.

D. Grading. If the landscape project will be graded, then the grading shall be designed to minimize soil erosion, runoff, and water waste. All grading should be conducted to:

1. Maintain all irrigation and normal rainfall within property lines and avoid drainage on to non-permeable hardscapes;
2. Avoid disruption of natural drainage patterns and undisturbed soil;
3. Avoid soil compaction in landscape areas; and
4. Be consistent with city and county grading requirements. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.090 Landscape audit report.

A. Landscape irrigation audits for new or rehabilitated landscapes installed after December 17, 2010, shall be conducted after the landscaping and irrigation systems have been installed. The audit may be conducted by the project applicant or

by a certified landscape irrigation auditor.

B. The landscape audit report shall include, but is not limited to: inspection to confirm that the landscaping and irrigation system were installed as specified in the landscape and irrigation design plan, system tune-up, system test with distribution uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule.

C. The landscape audit report shall include the following statement:

The landscape and irrigation system has been installed as specified in the Landscape and Irrigation Design Plan and complies with the criteria of the Ordinance and the permit.

D. The town shall administer on-going programs that may include, but not be limited to, post-installation landscape inspection, irrigation water use analysis, irrigation audits, irrigation surveys and water budget calculations to evaluate compliance with the MAWA. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.100 Landscape and irrigation maintenance schedule.

A. Landscapes shall be maintained to ensure water use efficiency.

B. A regular maintenance schedule shall include, but not be limited to, routine inspection; adjustment and repair of the irrigation system and its components; aerating and dethatching turf areas; replenishing mulch; fertilizing; pruning; weeding in all landscape areas; and removing obstructions to emission devices.

C. Repair of all irrigation equipment shall be done with the originally installed components or their equivalents.

D. Project applicants are encouraged to implement sustainable or environmentally friendly practices for overall landscape maintenance. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.110 Provisions for existing landscapes over one acre in size.

This section shall apply to all existing landscapes that were installed before December 17, 2010, and are over one acre in size.

A. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.

1. For landscapes that have a water meter, the town may administer programs that may include, but not be limited to, irrigation water use analyses, irrigation surveys, and irrigation audits to evaluate water use and provide recommendations as necessary to reduce landscape water use to a level that does not exceed the MAWA for existing landscapes. The MAWA for existing landscapes shall be calculated as:

$$\text{MAWA} = (0.8) (\text{ETo})(\text{LA})(0.62)$$

2. For landscapes that do not have a meter, the town may administer programs that may include, but not be limited to, irrigation surveys and irrigation audits to evaluate water use and provide recommendations as necessary in order to prevent water waste.

3. All landscape irrigation audits for existing landscapes that are greater than one acre in size shall be conducted by an authorized professional.

B. Water Waste Prevention. No person shall allow water waste resulting from inefficient landscape irrigation by prohibiting runoff from leaving the target landscape due to low head drainage, overspray, or other similar conditions where water

flows onto adjacent property, non-irrigated areas, walks, roadways, parking lots, or structures. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.120 Penalties.

A. Violation and Notice of Correction. It is unlawful for any person, firm, partnership, association, or corporation subject to the requirements of this chapter to fail to comply with the outdoor water use efficiency requirements of this chapter. The town of Atherton has the authority to conduct such inquiries, audits or surveys to ensure compliance with the requirements of this chapter. Whenever the building official or designee determines that a violation of this chapter has occurred, the building official may serve a notice of correction on the owner(s) of the property on which the violation is situated. The building official may allow the owner(s) of record up to ninety days to take corrective action. (Ord. 589 § 2 (Exh. A) (part), 2010)

15.48.130 Public education.

The town shall provide information to all applicants regarding the design, installation, management, and maintenance of water-efficient landscapes and irrigation systems. (Ord. 589 § 2 (Exh. A) (part), 2010)

The Atherton Municipal Code is current through Ordinance 616, passed September 16, 2015.

Disclaimer: The City Clerk's Office has the official version of the Atherton Municipal Code. Users should contact the City Clerk's Office for ordinances passed subsequent to the ordinance cited above.

Water efficient landscaping ordinance

The [Water Efficient Landscaping Ordinance](#) applies to all new and rehabilitated landscapes exceeding 2,500 square feet associated with projects requiring the following types of city review and approval:



- All building additions or modifications that require grading and drainage plan approval
- Grading and drainage improvements including all stormwater treatment and detention measures
- New construction subject to a building permit
- New water service
- Subdivision improvements

How to Comply in Four Steps

Step One: Hire a certified / licensed professional to complete and submit the required documentation

The property owner can hire any one of the following professionals to complete and submit the required documentation:

- Certified irrigation designer
- Certified landscape irrigation auditor
- Licensed landscape architect
- Licensed landscape contractor
- Licensed professional engineer
- Other person authorized by the State of California to design a landscape or an irrigation system

Step Two: Decide which option to comply with - Water Budget Method or Turf Limitation

Contact Us

Environmental Programs

650-330-6720

[Staff Directory](#)

Add or Change Garbage/Recycling Service

Recology

Customer Service

650-595-3900



Related Document

S

- [Outdoor Water Use Efficiency Checklist](#)
- [Current List of Invasive / Noxious Plants](#)
- [Example of How to Calculate a](#)



The Water Efficient Landscape Ordinance provides two options to demonstrate landscape water efficiency:

1. Water Budget Calculation Option

Using this method allows additional flexibility as long as the applicant does not exceed their allowable water budget that is measured in gallons. If using this option, a certified / licensed professional must submit either the [interactive water budget form](#) or a [water budget form](#). Calculations must demonstrate that the landscape stays within a maximum applied water allowance.

2. Turf Area Limitation Option

Total turf area must be 25% or less of landscaped area. Please note that in order to use the turf area limitation option, at least 80% of the plants in non-turf landscape areas are required to be native plants, low-water using plants, or no-water using plants. In the event that a residential subdivision would result in each lot being allowed less than 500 square feet of turf, the Ordinance allows up to 500 square feet of turf per new home.

Step Three: Submit documentation from certified / licensed professional to obtain development permit

Before construction, submit the following:

- [Landscape Application / Outdoor Water Use Efficiency Checklist](#)
- [Landscape and Irrigation Design Plans](#)
- If applicable, a [Water Budget Form](#) or [Interactive Water Budget Form](#)

A non-refundable processing fee of \$300 will be collected at the time of either the Planning or Building Permit Application, whichever is applied for first.

Step Four: After construction submit a [Landscape Audit Report](#) from a certified licensed professional

Related Links

- [Alternatives to Invasive Species](#)
- [Invasive Plant List](#)
- [Irrigation Controllers](#)
- [Plant Water Needs](#)
- [San Jose Area Native Plants](#)
- [Searchable Plant Information Database](#)

[View All](#)

Water regulations

Water is a precious resource that is used every day. About 75% of the Earth's surface is covered by water, but only 1% can be used for drinking because most water found on the planet contains salt. The limited availability of water combined with population and economic growth requires good conservation practices to ensure adequate supplies are available for the future.

On May 5, 2015, the City Council adopted the following water regulations to adhere to the Governor's April 2015 Executive Order and State Water Board's regulations. These apply to potable water only.

1. Potable water to irrigate outdoor ornamental landscapes or turf shall be limited to the following two days per week schedule.
 - ODD addresses / No address - Mondays and Thursdays
 - EVEN addresses - Tuesdays and Fridays
 - No watering allowed between 8:00 am - 6:00 pm
2. Water customers may be granted an exception to the two days per week schedule upon review and approval of a Drought Response Plan that demonstrates an equivalent or greater reduction in water use. Water customers may be granted an exception to the two days per week schedule upon review and approval of a Drought Response Plan that demonstrates an equivalent or greater reduction in water use. Please refer to the [Drought Response Plan Guidelines](#).
3. Irrigation of outdoor ornamental landscapes or turf is not allowed between 8:00 am - 6:00 pm.
4. Must not use potable water on outdoor landscapes that causes runoff.
5. Hoses must be fitted with an automatic shutoff nozzle for washing vehicles, sidewalks, driveways, walkways, or buildings.
6. Must not apply potable water to any driveway or sidewalk except to address immediate health or safety concerns.

Contact Us

Water Conservation Program

[Email](#)

650-330-6750

Report Water Waste

[Online form](#)

650-330-6750

Related Links

- [Report Water Waste](#)
- [Water Districts in Menlo Park](#)
- [Drought Response Plan Application](#)
- [Water Conservation Rebates & Incentives](#)
- [Menlo Park Municipal Water District](#)

[View All](#)

Drought

FAQs

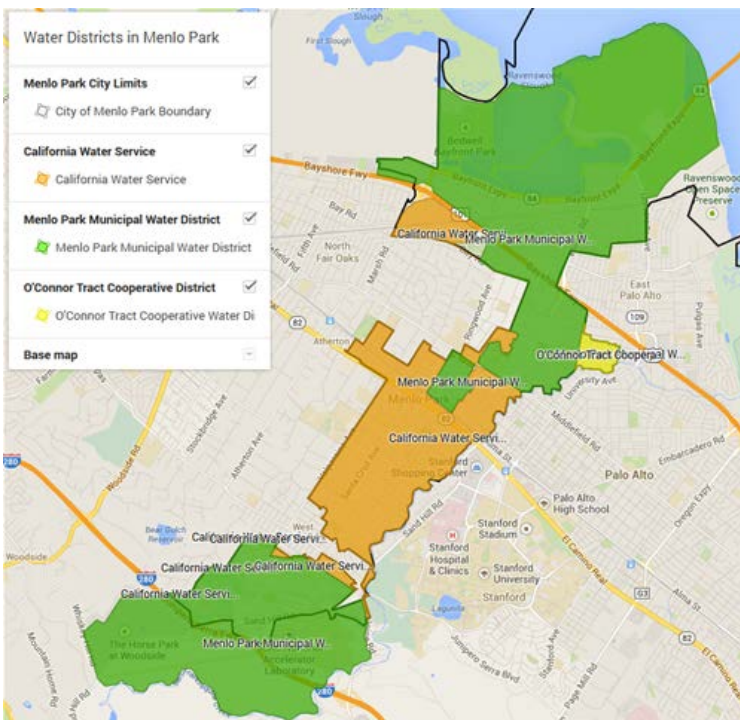
[Select Language](#) ▼

7. Pools, spas, and hot tubs shall be covered when not in use.
8. Cannot use potable water in a decorative feature, unless the water recirculates.
9. Must repair defective/broken plumbing and irrigation systems within a reasonable time period.
10. Potable water shall not be used to water outdoor landscapes during and within 48 hours after measurable rainfall.
11. Restaurants must serve water only upon request.
12. Hotels and motels shall provide guests an option of choosing not to have towels and linens laundered daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.
13. Single-pass cooling systems on new construction shall not be allowed.
14. Permits for construction of new pools shall include a requirement that MPMWD water shall not be used to fill new pools.
15. Newly constructed homes and buildings must deliver potable water through drip or micro-spray systems to water outside.
16. Potable water shall not be used to irrigate ornamental turf on public street medians.

- [When do the regulations start?](#)
- [Who is affected?](#)
- [How do I determine my water provider?](#)

[View All](#)

To determine your water provider, click on the [interactive map](#) of Water Districts in Menlo Park below and enter in your address.



Water Facts

- Approximately 94% of Menlo Park's water is supplied from the Hetch Hetchy watershed with the remainder supplied by the Alameda watershed.
- More than 50% of residential water use is dedicated to landscaping.
- About 1/3 of all the water used in California's urban areas are used by the commercial, institutional, and industrial sectors.

ORDINANCE NO. 2010-384

**ORDINANCE OF THE TOWN COUNCIL OF THE TOWN OF
PORTOLA VALLEY ADDING CHAPTER 15.30 [INDOOR WATER
CONSERVATION] TO TITLE 15 [BUILDINGS AND
CONSTRUCTION] OF THE PORTOLA VALLEY MUNICIPAL CODE**

WHEREAS, the Town of Portola Valley ("Town") desires to add Chapter 15.30 [Indoor Water Conservation] to Title 15 [Buildings and Construction] of the Portola Valley Municipal Code to establish indoor water conservation regulations.

WHEREAS, a reliable minimum supply of potable water is essential to the public health, safety and welfare of the people and economy of the Town. The adoption and enforcement of this Ordinance is necessary to manage the Town's potable water supply in the short- and long-term and to avoid or minimize the effects of drought and shortage within the Town.

WHEREAS, San Mateo County, in which the Town is located, is a semi-arid region and is largely dependent upon imported water supplies. Factors, such as drought, a growing population, climate change, and environmental and regulatory concerns affect the region's water reliability and make it highly susceptible to water supply challenges.

WHEREAS, the more restrictive building standards for water conserving fixtures provided for in this Ordinance are reasonably necessary because of local climatic, geological or topographical conditions.

WHEREAS, careful water management requires active water conservation measures, not only in times of drought but at all times, in order to ensure a reliable minimum supply of water to meet current and future water supply needs.

WHEREAS, current supply and demand projections for the Bay Area Water Supply and Conservation Agency ("BAWSCA") member agencies, including the Town, indicate that, in the absence of increased water conservation, water demands will exceed available water supplies in 2015 and implementation of water conserving ordinances is one mechanism by which agencies can reduce future water demands and remain within existing supplies.

WHEREAS, this Ordinance is consistent with the provisions requiring high efficiency water conserving fixtures and reductions in indoor water use in the 2007 California Plumbing Code and the California Green Building Standards Code, respectively, as such provisions will be implemented in the coming years. Implementation of this Ordinance is necessary to expedite the use of high efficiency water conserving fixtures and assist BAWSCA member agencies in achieving water savings.

WHEREAS, the State Legislature has identified the provision of a more reliable water supply and the protection, restoration and enhancement of the Delta ecosystem as a high priority for the State. Pursuant to this, in November 2009, the State Legislature passed Senate Bill 7 requiring certain urban water suppliers to reduce per capita urban water use by 20% by the year 2020. Implementation of this Ordinance is consistent with the policies and goals established by the State Legislature in enacting Senate Bill 7.

WHEREAS, the State Legislature has identified urban water conservation as a cost-effective approach to addressing water supply needs and determined that there are many water conservation practices that produce significant energy and water resource savings that should be encouraged as a matter of state policy. Pursuant to this finding, the State Legislature passed Senate Bill 407, requiring all residential and commercial property owners to replace existing plumbing fixtures with water-conserving fixtures by 2017 and 2019, respectively, and to upgrade existing plumbing fixtures upon any remodel initiated after January 1, 2014. Senate Bill 407 further authorizes the Town to enact local ordinances that promote compliant use of water efficient plumbing fixtures or which will result in a greater amount of water savings than those provided for in Senate Bill 407. This Ordinance is consistent with the mandates of Senate Bill 407 and will result in water savings.

WHEREAS, the Town's local water purveyor, California Water Service Company has a long-standing policy of promoting efficient water management measures and practices and will work cooperatively with the Town to maximize effectiveness of the Ordinance.

NOW, THEREFORE, THE COUNCIL DOES ORDAIN AS FOLLOWS:

1. Addition to Code. Chapter 15.30 [Indoor Water Conservation] of Title 15 [Buildings and Construction] of the Portola Valley Municipal Code is hereby added to read as follows:

**CHAPTER 15.30
INDOOR WATER CONSERVATION**

15.30.010	Applicability
15.30.020	Definitions
15.30.030	Minimum Indoor Fixture Requirements
15.30.040	Application Requirements
15.30.050	Enforcement

15.30.010 Applicability

A. The provisions of this Ordinance shall apply to the following projects:

1. All new construction, regardless of building classification, requiring a building permit, plan check or design review, or requiring new or expanded water service.

2. All kitchen and bathroom remodels requiring a building permit, plan check, design review, new or expanded water service, except that the provisions of this Ordinance will only apply to the fixtures normally included in the kitchen or bathroom, as the case may be, to be remodeled.

B. This provisions of this Ordinance shall not apply to:

1. Existing buildings not requiring a building permit, plan check or design review.

2. Registered local, state or federal historical sites.

15.30.020 Definitions

A. "Certified professional" means a licensed contractor, architect or professional engineer.

B. "Energy Star Qualified" means that a given fixture meets the United States Environmental Protection Agency standard for an energy efficient product.

C. "LSI" means Langlier Saturation Index providing an indication of the degree of saturation of water with respect to calcium carbonate related to cooling tower efficiency.

D. "Local water purveyor" means any entity, including a public agency, city, county, or private water company that provides retail water service.

E. "Project applicant" means the individual or entity submitting a project application which requires an Indoor Water Use Efficiency Checklist pursuant to this chapter.

F. "Water factor" means the number of gallons per cycle per cubic foot that a clothes washer uses.

15.30.030 Minimum Indoor Fixture Requirements

All new construction and applicable remodels will have, at a minimum, fixtures that comply with the efficiency standards listed below in the Indoor Water Use Efficiency Table.

INDOOR WATER USE EFFICIENCY TABLE

Fixture	Residential	Non-Residential
Toilets	≤ 1.28 gpf, and ≥ 350 grams	≤ 1.28 gpf, and ≥ 350 grams
Urinals	≤ 0.5 gpf	≤ 0.5 gpf
Showers	≤ 2.0 gpm	≤ 2.0 gpm
Bathroom faucets	≤ 1.5 gpm	≤ 0.5 gpm
Kitchen faucets	≤ 2.2 gpm	≤ 2.2 gpm
Clothes washers	≤ 6.0 Water Factor	≤ 6.0 Water Factor
Dishwashers	≤ 6.5 gal/cycle, or Energy Star Qualified	Energy Star Qualified
Cooling towers	≥ 5 - 10 cycles, or ≥ 2.5 LSI	≥ 5 - 10 cycles, or ≥ 2.5 LSI
Food steamers	--	Boiler less, or Self-contained
Ice machines	--	≤ 25 gal/100 lbs ice, or Air-cooled
Pre-rinse spray valves	--	≤ 1.15 gpm
Automatic vehicle wash facilities	--	≥ 50% of water that is recycled on site
Commercial refrigeration	--	Closed loop, or Air-cooled
Water Meters	Submeters for RMF, and Separate meter for outdoor if landscape >5000 sq. ft.	Submeters, and Separate meter for outdoor if landscape >5000 sq. ft.

"gal/cycle" means gallons per cycle; "gal/100 lbs ice" means gallons per hundred pounds of ice; "gpf" means gallons per flush; "gpm" means gallons per minute

15.30.040 Application Requirements

A. The Town shall:

1. Provide the project applicant with the Indoor Water Use Efficiency Checklist when it provides project applicant with the procedures for permits, plan checks, design reviews or new or expanded water service applications;
2. Review the Indoor Water Use Efficiency Checklist submitted by the project applicant;

3. Approve or deny the project applicant's Indoor Water Use Efficiency Checklist submittal;

4. Only upon approval of the Indoor Water Use Efficiency Checklist, issue a permit or approve the plan check, design review or new or expanded water service application;

5. Inspect the installation of the water efficient fixtures and appliances to verify that they have been installed and are performing at the required use levels; and

6. Submit a copy of the complete Indoor Water Use Efficiency Checklist to the local water purveyor.

B. The Project Applicant shall:

1. Meet the minimum water use efficiency standards for indoor fixtures and appliances provided for in the Indoor Water Use Efficiency Table and Checklist.

2. Submit all portions of the Indoor Water Use Efficiency Checklist to the local agency for approval that includes, at a minimum:

a. Project information;

b. Quantity and unit water use factors of all indoor fixtures and appliances relative to the standards listed in the Indoor Water Use Efficiency Table and Checklist;

c. Contains the following statement to be completed by the Project Applicant: "I certify that the subject project meets the specified requirements of the Indoor Water Use Efficiency Ordinance"; and

d. Bears the signature of the project applicant, or that of a certified professional.

15.30.050 Enforcement

Compliance with this chapter shall be conducted in accordance with chapter 1.12.

2. Environmental Review. This Ordinance is not subject to the California Environmental Quality Act (Public Resources Code Section 2100 et seq.) ("CEQA") pursuant to Section 15307 and Section 15378(b)(2) of the State CEQA Guidelines, California Code of Regulations, Title 14, Chapter 3, because it makes and implements policies and procedures for ensuring that water resources are conserved by reducing water consumption through the use of water efficient indoor plumbing fixtures.

3. Severability. If any section, subsection, provision or part of this Ordinance, or its application to any person or circumstance, is held to be unconstitutional or otherwise invalid, the remainder of this Ordinance, and the application of such provision to other person or circumstances, shall not be affected

thereby and shall remain in full force and effect and, to that end, the provisions of this Ordinance are severable.

4. Effective Date; Posting. This Ordinance shall become effective thirty (30) days after the date of its adoption and shall be posted within the Town in three (3) public places.

INTRODUCED: February 24, 2010

PASSED: March 10, 2010


AYES: Councilmember Derwin, Vice Mayor Driscoll, Councilmember Richards,
Mayor Toben and Councilmember Wengert

NOES: None

ABSTENTIONS: None


ABSENT: None

ATTEST:

By: 

Mayor

ATTEST:



Town Clerk

APPROVED AS TO FORM:



Town Attorney

ORDINANCE NO. 2010-383

ORDINANCE OF THE TOWN COUNCIL OF THE TOWN OF PORTOLA VALLEY ADDING CHAPTER 15.32 [WATER CONSERVATION IN LANDSCAPING] TO TITLE 15 [BUILDINGS AND CONSTRUCTION] OF THE PORTOLA VALLEY MUNICIPAL CODE

WHEREAS, the Town of Portola Valley ("Town") desires to add Chapter 15.32 [Water Conservation in Landscaping] to Title 15 [Buildings and Construction] of the Portola Valley Municipal Code to establish outdoor water conservation regulations.

WHEREAS, a reliable minimum supply of potable water is essential to the public health, safety and welfare of the people and economy of Town.

WHEREAS, the California Water Conservation in Landscaping Act, also known as the State Landscape Model Ordinance ("Model Ordinance"), has been implemented by a Statewide Landscape Task Force which was overseen by the California Urban Water Conservation Council. The California Water Conservation in Landscaping Act was amended pursuant to AB 2717 and AB 1881.

WHEREAS, AB 1881 requires cities and counties, no later than January 1, 2010, to adopt the updated Model Ordinance or an equivalent document which is "at least as effective as" the Model Ordinance in conserving water. In the event cities and counties do not take such action, the State's Model Ordinance will be deemed to be automatically adopted by statute.

WHEREAS, the Town has developed this Water Conservation In Landscaping Ordinance to meet the requirements and guidelines of the Model Ordinance and to address the unique physical characteristics, including average landscaped areas, within the Town's jurisdiction in order to ensure that this Ordinance will be "at least as effective as" the Model Ordinance in conserving water.

WHEREAS, although this Water Conservation in Landscaping ordinance is more streamlined and simplified than the Model Ordinance, the Town finds that it is "at least as effective as" the Model Ordinance for the following reasons: (1) this Ordinance applies to more accounts than the Model Ordinance does because it lowers the size threshold for applicable landscapes from 2,500 square feet (or, in the case of single-family residences, from 5,000 square feet) to 1,000 square feet, to better reflect the typical landscaped areas located within this Town's boundaries; (2) this Ordinance includes a default turf restriction of 25% or 1,000 square feet (whichever is smaller) of the irrigated area and requires that at least 80% of the plants in non-turf landscape areas be native plants, low-water using plants, or no-water using plants (unless the applicant elects to perform a water budget); and (3) this Ordinance expands the requirement for dedicated irrigation meters to all accounts with landscaping greater than 5,000 square feet. The Model Ordinance does not contain any such default turf restrictions or specified plant requirements and only requires dedicated irrigation meters on non-residential accounts with landscaping greater than 5,000 square feet.

WHEREAS, although this Water Conservation in Landscaping Ordinance is more streamlined and simplified than the Model Ordinance, the Town Council further finds that it is "at least as effective as" the Model Ordinance because this Ordinance includes water budget parameters and values and landscape parameters that are consistent with the Model

Ordinance. By using the same water budget parameters as the Model Ordinance (e.g., plant factors, irrigation efficiency), this Ordinance will be as effective as the Model Ordinance in developing landscape water budgets. By using the same landscape parameters as the Model Ordinance for, among other things, slope restrictions and width restrictions for turf, irrigation times, and minimum mulch requirements, this Ordinance will be at least as effective as the Model Ordinance in achieving water savings.

WHEREAS, Article X, Section 2 of the California Constitution and Section 100 of the California Water Code declare that the general welfare requires water resources be put to beneficial use, waste or unreasonable use or unreasonable method of use of water be prevented, and conservation of water be fully exercised with a view to the reasonable and beneficial use thereof.

WHEREAS, the San Francisco Public Utilities Commission has imposed an interim water supply limitation on its wholesale customers, including local water suppliers, until at least 2018.

WHEREAS, current supply and demand projections for the Bay Area Water Supply and Conservation Agency ("BAWSCA") member agencies indicate that, in the absence of increased water conservation, water demands will exceed available water supplies in 2015 and implementation of water conserving ordinances is one mechanism by which agencies can reduce future water demands and remain within existing supplies.

WHEREAS, The Town Council finds and determines that this Ordinance is consistent with the provisions requiring reductions in outdoor water use for landscaping in the California Green Building Standards Code, as such provisions will be implemented in the coming years. Such requirements include the development of a water budget for landscape irrigation in accordance with methodology outlined in either the Model Ordinance or pursuant to a locally adopted ordinance.

WHEREAS, the State Legislature has identified the provision of a more reliable water supply and the protection, restoration and enhancement of the Delta ecosystem as a high priority for the state. Pursuant to this, in November 2009, the State Legislature passed Senate Bill 7 (7th Extraordinary Session) requiring certain urban water suppliers to reduce per capita urban water use by 20% by the year 2020. Accordingly, the Town Council finds that implementation of this Ordinance is consistent with the policies and goals established by the State Legislature in enacting SB 7 (7th Extraordinary Session).

WHEREAS, Article XI, Section 7 of the California Constitution declares that a city or county may make and enforce within its limits all local, policy, sanitary, and other ordinances and regulations not in conflict with general laws.

WHEREAS, pursuant to AB 1881, enforcement of this Ordinance will require supportive measures by California Water Service Company, the local water provider within these jurisdictions, so as to ensure the successful implementation and enforcement of this Ordinance.

WHEREAS, the Town's local water purveyor, California Water Service Company has a long-standing policy of promoting efficient water management measures and practices and will work cooperatively with the Town to maximize effectiveness of the Ordinance.

WHEREAS, the adoption and enforcement of this Ordinance is necessary to manage the Town's potable water supply in the short and long-term and to avoid or minimize the effects

of drought and shortage within the Town. This Ordinance is essential to ensure a reliable and sustainable minimum supply of water for the public health, safety and welfare.

NOW, THEREFORE, THE COUNCIL DOES ORDAIN AS FOLLOWS:

1. Addition to Code. Chapter 15.32 [Water Conservation in Landscaping] of Title 15 [Buildings and Construction] of the Portola Valley Municipal Code is hereby added to read as follows:

**CHAPTER 15.32
WATER CONSERVATION IN LANDSCAPING**

15.32.010	Applicability
15.32.020	Definitions
15.32.030	Water Conservation in Landscaping Requirements
15.32.040	Compliance with Ordinance
15.32.050	Landscape Project Application
15.32.060	Outdoor Water Use Efficiency Checklist
15.32.070	Water Budget Calculations
15.32.080	Landscape and Irrigation Design Plans
15.32.090	Landscape Audit Report
15.32.100	Landscape and Irrigation Maintenance Schedule
15.32.110	Stormwater Management
15.32.120	Provisions for Existing Landscapes Over One Acre in Size
15.32.130	Penalties

15.32.010 Applicability

A. The provisions of this Ordinance shall apply to all of the following landscape projects:

- i. Tier 1 Landscapes: All new construction and rehabilitated landscapes with irrigated landscape areas between 1,000 square feet and 2,500 square feet requiring a building or landscape permit, plan check or design review, or requiring new or expanded water service.
- ii. Tier 2 Landscapes: All new construction and rehabilitated landscapes with irrigated landscape areas equal to or greater than 2,500 square feet requiring a building or landscape permit, plan check or design review or requiring new or expanded water service.
- iii. Existing landscapes, including existing cemeteries, shall only be subject to the provisions for existing landscapes provided for in Section XIII "Provisions for Existing Landscapes Over One Acre in Size," and
- iv. New and rehabilitated cemeteries shall only be subject to the provisions of Section VIII "Water Budget Calculations", Section X "Landscape Audit Report", and Section XI "Landscape and Irrigation Maintenance Schedule."

- B. The provisions of this Ordinance shall not apply to:
- i. New construction and rehabilitated landscapes with irrigated landscape areas less than 1,000 square feet or that do not require a building or landscape permit, plan check or design review, or new or expanded water service;
 - ii. Landscapes, or portions of landscapes, that are only irrigated for an establishment period;
 - iii. Registered local, state or federal historical sites where landscaping establishes a historical landscape style, as determined by a public board or commission responsible for architectural review or historic preservation;
 - iv. Ecological restoration or mined-land reclamation projects that do not require a permanent irrigation system; or
 - v. Community gardens or plant collections, as part of botanical gardens and arboretums open to the public, agricultural uses, commercial nurseries and sod farms.

15.32.20 Definitions

- A. "Applied water" means the portion of water supplied by the irrigation system to the landscape.
- B. "Automatic irrigation controller" means an automatic timing device used to remotely control valves that operate an irrigation system. Automatic irrigation controllers schedule irrigation events using either evapotranspiration (weather-based) or soil moisture data.
- C. "Backflow prevention device" means a safety device used to prevent pollution or contamination of the water supply due to the reverse flow of water from the irrigation system.
- D. "Certified irrigation designer" means a person certified to design irrigation systems by an accredited academic institution a professional trade organization or other program such as the U.S. Environmental Protection Agency's WaterSense irrigation designer certification program and Irrigation Association's Certified Irrigation Designer program.
- E. "Certified landscape irrigation auditor" means a person certified to perform landscape irrigation audits by an accredited academic institution, a professional trade organization or other program such as the U.S. Environmental Protection Agency's WaterSense irrigation auditor certification program and Irrigation Association's Certified Landscape Irrigation Auditor program.

- F. "Certified professional" means a certified irrigation designer, a certified landscape irrigation auditor, a licensed landscape architect, a licensed landscape contractor, a licensed professional engineer, or any other person authorized by the state to design a landscape.
- G. "Conversion factor (0.62)" means the number that converts inches per square foot to gallons. This conversion factor represents the amount of water that will fill one square-foot, to 1 inch of depth.
- H. "Drip irrigation" means any non-spray low volume irrigation system utilizing emission devices with a flow rate measured in gallons per hour. Low volume irrigation systems are specifically designed to apply small volumes of water slowly at or near the root zone of plants.
- I. "Ecological restoration project" means a project where the site is intentionally altered to establish a defined, indigenous, historic ecosystem.
- J. "Effective precipitation" or "usable rainfall" (Eppt) means the portion of total precipitation which becomes available for plant growth.
- K. "Establishment period" means the first year after installing the plant in the landscape or the first two years if irrigation will be terminated after establishment. Typically, most plants are established after one or two years of growth.
- L. "Estimated Total Water Use" (ETWU) means the total water used for the landscape as described in Section VIII "Water Budget Calculations."
- M. "ET adjustment factor" (ETAF) means a factor of 0.7, that, when applied to reference evapotranspiration, adjusts for plant factors and irrigation efficiency, two major influences upon the amount of water that needs to be applied to the landscape. ETAF for a Special Landscape Area shall not exceed 1.0. ETAF for existing non-rehabilitated landscapes shall not exceed 0.8.
- N. "Evapotranspiration rate" means the quantity of water evaporated from adjacent soil and other surfaces and transpired by plants during a specified time.
- O. "Flow rate" means the rate at which water flows through pipes, valves and emission devices, measured in gallons per minute, gallons per hour, or cubic feet per second.
- P. "Hardscapes" means any durable material (pervious and non-pervious).
- Q. "Hydrozone" means a portion of the landscaped area having plants with similar water needs. A hydrozone may be irrigated or non-irrigated.
- R. "Invasive plant species" means species of plants not historically found in California that spread outside cultivated areas and can damage environmental or economic resources. Lists of invasive plants are maintained at the California Invasive Plant Inventory and USDA invasive and noxious weeds database.
- S. "Irrigation audit" means an in-depth evaluation of the performance of an irrigation system. An irrigation audit includes, but is not limited to: inspection, system tune-

up, system test with distribution uniformity or emission uniformity, reporting overspray or runoff that causes overland flow, and preparation of an irrigation schedule.

- T. "Irrigation efficiency" (IE) means the measurement of the amount of water beneficially used divided by the amount of water applied. Irrigation efficiency is derived from measurements and estimates of irrigation system characteristics and management practices. The minimum average irrigation efficiency for purposes of this Ordinance is 70%. Greater irrigation efficiency can be expected from well-designed and maintained systems.
- U. "Irrigation survey" means an evaluation of an irrigation system that is less detailed than an irrigation audit. An irrigation survey includes, but is not limited to: inspection, system test, and written recommendations to improve performance of the irrigation system.
- V. "Irrigation water use analysis" means an analysis of water use data based on meter readings and billing data.
- W. "Landscape architect" means a person who holds a license to practice landscape architecture in California as further defined by the California Business and Professions Code, Section 5615.
- X. "Landscape area" means all the planting areas, turf areas, and water features in a landscape design plan subject to the Maximum Applied Water Allowance calculation. The landscape area does not include footprints of buildings or structures, sidewalks, driveways, parking lots, decks, patios, gravel or stone walks, other pervious or non-pervious hardscapes, other non-irrigated areas designated for non-development (e.g., open spaces and existing native vegetation), agricultural uses, commercial nurseries and sod farms.
- Y. "Landscape contractor" means a person licensed by the State of California to construct, maintain, repair, install, or subcontract the development of landscape systems.
- Z. "Landscape project" means the total area comprising the landscape area, as defined in this Ordinance.
- AA. "Lateral line" means the water delivery pipeline that supplies water to the emitters or sprinklers from the valve.
- BB. "Local water purveyor" means any entity, including a public agency, city, county, district or private water company that provides retail water service.
- CC. "Low volume irrigation" means the application of irrigation water at low pressure through a system of tubing or lateral lines and low-volume emitters such as drip, drip lines, and bubblers.
- DD. "Low water use plant" means a plant species whose water needs are compatible with local climate and soil conditions. Species classified as "very low water use" and "low water use" by *WUCOLS*, having a regionally adjusted *plant factor* of 0.0 through 0.3, shall be considered low water use plants.

- EE. "Maximum Applied Water Allowance" (MAWA) means the upper limit of annual applied water for the established landscaped area as specified in Section VIII "Water Budget Calculations."
- FF. "Mined-land reclamation projects" means any surface mining operation with a reclamation plan approved in accordance with the Surface Mining and Reclamation Act of 1975.
- GG. "Mulch" means any organic material such as leaves, bark, straw, compost, or inorganic mineral materials such as rocks, gravel, and decomposed granite left loose and applied to the soil surface for the beneficial purposes of reducing evaporation, suppressing weeds, moderating soil temperature, and preventing soil erosion.
- HH. "Native plant" means a plant indigenous to a specific area of consideration. For the purposes of these guidelines, the term shall refer to plants indigenous to the coastal ranges of Central and Northern California, and more specifically to such plants that are suited to the ecology of the present or historic natural community(ies) of the project's vicinity.
- II. "New construction" means the construction of a new building or structure containing a landscape or other new land improvement, such as a park, playground, or greenbelt without an associated building.
- JJ. "No-water using plant" means a plant species with water needs that are compatible with local climate and soil conditions such that regular supplemental irrigation is not required to sustain the plant after it has become established.
- KK. "Noxious weeds" means any weed designated by the Weed Control Regulations in the Weed Control Act and identified on a Regional District noxious weed control list.
- LL. "Operating pressure" means the pressure at which the parts of an irrigation system are designed by the manufacturer to operate.
- MM. "Overhead sprinkler irrigation systems" means systems that deliver water through the air (e.g., spray heads and rotors).
- NN. "Overspray" means the irrigation water which is delivered beyond the target area.
- OO. "Permit" means an authorizing document issued by the Town for new construction or rehabilitated landscapes.
- PP. "Pervious" means any surface or material that allows the passage of water through the material and into the underlying soil.
- QQ. "Plant factor" or "plant water use factor" is a factor, when multiplied by ETo, estimates the amount of water needed by plants.
- RR. "Precipitation rate" means the rate of application of water measured in inches per hour.

- SS. "Project applicant" means the individual or entity submitting a Project Landscape Application required under Section VI, to request a permit, plan check, or design review from the Town or requesting new or expanded water service from the water district. A project applicant may be the property owner or his or her designee.
- TT. "Rain sensor" or "rain sensing shutoff device" means a component which automatically suspends an irrigation event when it rains.
- UU. "Recreational area" means areas dedicated to active play such as parks, sports fields, and golf courses where turf provides a playing surface.
- VV. "Reference evapotranspiration" or "ETo" means a standard measurement of environmental parameters which affect the water use of plants.
- WW. "Rehabilitated landscape" means any re-landscaping project that requires a permit, plan check, design review, or requires a new or expanded water service application.
- XX. "Runoff" means water which is not absorbed by the soil or landscape to which it is applied and flows from the landscape area.
- YY. "Soil moisture sensing device" or "soil moisture sensor" means a device that measures the amount of water in the soil. The device may also suspend or initiate an irrigation event.
- ZZ. "Special Landscape Area" (SLA) means an area of the landscape dedicated solely to edible plants, areas irrigated with recycled water, water features using recycled water and areas dedicated to active play such as parks, sports fields, golf courses, and where turf provides a playing surface.
- AAA. "Sprinkler head" means a device which delivers water through a nozzle.
- BBB. "Station" means an area served by one valve or by a set of valves that operate simultaneously.
- CCC. "Turf" means a ground cover surface of mowed grass. Annual bluegrass, Kentucky bluegrass, Perennial ryegrass, Red fescue, and Tall fescue are cool-season grasses. Bermuda grass, Kikuyu grass, Seashore Paspalum, St. Augustine grass, Zoysia grass, and Buffalo grass are warm-season grasses.
- DDD. "Valve" means a device used to control the flow of water in the irrigation system.
- EEE. "Water feature" means a design element where open water performs an aesthetic or recreational function. Water features include ponds, lakes, waterfalls, fountains, artificial streams, spas, and swimming pools (where water is artificially supplied).
- FFF. "WUCOLS" means the Water Use Classification of Landscape Species published by the University of California Cooperative Extension, the Department of Water Resources and the Bureau of Reclamation, 2000.

15.32.030

Water Conservation in Landscaping Requirements

- A. All owners of new construction and rehabilitated landscapes of applicable sizes shall: (1) complete the Landscape Project Application and (2) comply with the Landscape and Irrigation Maintenance Schedule requirements of this Ordinance.
- B. All owners of existing landscapes over one acre in size, even if installed before enactment of this Ordinance, shall: (1) comply with Town programs that may be instituted relating to irrigation audits, surveys and water use analysis, and (2) shall maintain landscape irrigation facilities to prevent water waste and runoff.

15.32.040

Compliance with Ordinance

- A. The Town shall:
 - i. Provide the project applicant with the Landscape Project Application requirements and the procedures for permits, plan checks, design reviews, or new or expanded water service;
 - ii. Review the Landscape Project Application submitted by the project applicant;
 - iii. Approve or deny the project applicant's Landscape Project Application submittal;
 - iv. Issue or approve a permit, plan check or design review that complies with the approved Landscape Project Application or approve a new or expanded water service application that complies with the approved Landscape Project Application;
 - v. Submit a copy of the complete Landscape Project Application to the local water purveyor or land use authority, as the case may be.
- B. The project applicant shall:
 - i. Prior to construction, submit all portions of the Landscape Project Application, except the Landscape Audit Report, to the Town; and
 - ii. After construction, submit the Landscape Audit Report portion of the Landscape Project Application to the Town.

15.32.050

Landscape Project Application

- A. The elements of a landscape must be designed to achieve water efficiency and will comply with the criteria described in this Ordinance. In completing the Landscape Project Application, project applicants may choose one of two options to demonstrate that the landscape meets the Ordinance's water efficiency goals. Regardless of which option is selected, the applicant must complete and comply with all other elements of the Ordinance. The options include:
 - i. Planting restrictions:
 - a. 1,000 square feet maximum of irrigated lawn area. Only drought resistant varieties shall be used; and
 - b. 1,000 square feet maximum of ornamental planting including flower and vegetable gardens. All planting in this area shall be watered by drip irrigation.
 - ii. Water Budget Calculation option.
- B. The Landscape Project Application shall include the following elements:
 - i. Project Information;
 - ii. Outdoor Water Use Efficiency Checklist;
 - iii. Water Budget Calculations, if applicant selects to use a water budget approach rather than comply with the turf area limitations or specified plant type restrictions;
 - iv. Landscape and Irrigation System Design Plans; and
 - v. Landscape Audit Report.

15.32.060

Outdoor Water Use Efficiency Checklist

The Town will develop an Outdoor Water Use Efficiency Checklist ("Checklist"), based on the criteria described below. For Tier 1 projects, either the project applicant or a landscape professional shall complete the Checklist and submit it to the Town along with the Landscape and Irrigation Design Plan. For Tier 2 projects, the Checklist shall be completed by a landscape professional and submit it to the Town along with the Landscape and Irrigation Design Plan.

- A. Plant Material
 - i. Each hydrozone shall have plant materials with similar water use that are selected and planted appropriately based upon their adaptability to the climatic, geologic, and topographical conditions of the project site.

- ii. The turf area shall not be more than 25% of the landscape area, unless the project applicant develops a site-specific water budget and the ETWU of the landscape area does not exceed the MAWA.
- iii. Turf shall not be planted on slopes greater than 25% or in areas that are less than eight feet wide, unless irrigated with subsurface irrigation or a low volume irrigation system.
- iv. At least 80% of the plants in non-turf landscape areas shall be native plants, low-water using plants, or no-water using plants; unless the project applicant develops a site-specific water budget and the ETWU of the landscaped area does not exceed the MAWA.
- v. Fire-prone plant materials and highly flammable mulches should be avoided.
- vi. The use of invasive and/or noxious plant species is strongly discouraged.
- vii. The architectural guidelines of a common interest development shall not prohibit or include conditions that have the effect of prohibiting the use of low-water use plants as a group.

B. Mulch

A minimum two-inch layer of mulch shall be applied on all exposed soil surfaces of planting areas, although a three-inch layer is recommended.

C. Irrigation System

An irrigation system shall meet all the requirements listed in this section and the manufacturers' recommendations. The irrigation system and its related components shall be planned and designed to allow for proper installation, management, and maintenance.

- i. Dedicated landscape water meters shall be required for landscape areas greater than 5,000 square feet and are highly recommended for landscape areas greater than 2,500 square feet.
- ii. Tier 2 Landscapes are required to have automatic irrigation controllers that utilize either evapotranspiration or soil moisture sensor data for irrigation scheduling.
- iii. Sensors (rain, freeze, wind, etc.), either integral or auxiliary, that suspend or alter irrigation operation during unfavorable weather conditions shall be required on all irrigation systems.
- iv. The irrigation system shall be designed to prevent runoff, low head drainage, overspray, or other similar conditions.
- v. Low volume irrigation required in mulched areas, in areas with slope greater than 25%, and within 24-inches of a non-permeable surface, or in

narrow or irregularly shaped areas that are less than eight feet in width in any direction.

- vi. Average irrigation efficiency is assumed to be 70%. Irrigation systems shall be designed, maintained, and managed to meet or exceed an average landscape irrigation efficiency of 70%.
- vii. Irrigation shall be scheduled between 8:00 p.m. and 10:00 a.m., unless unfavorable weather prevents it or otherwise renders irrigation unnecessary.

D. Hydrozone

- i. Each valve shall irrigate a hydrozone with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use.
- ii. Sprinkler heads and other emission devices shall be selected based on what is appropriate for the plant type within that hydrozone.
- iii. Where feasible, trees shall be placed on separate valves from shrubs, groundcovers, and turf.
- iv. Individual hydrozones that mix plants with different water uses may be allowed if a water budget is performed, and the plant factor calculation is based on the proportion of the respective plant water uses or the plant factor of the higher water using plant is used.

E. Water Features

- i. Recirculating water systems will be used for water features.
- ii. The surface area of a water feature will not exceed 10% of the landscape area and will be counted as a high-water using plant for purposes of a water budget calculation.
- iii. Pool and spa covers are highly recommended.

F. Soil Amendments

Soil amendments, such as compost, shall be incorporated according to the soil conditions at the project site and based on what is appropriate for the selected plants.

15.32.070 Water Budget Calculations

Project applicant may elect to complete a water budget calculation for the landscape project. A Tier 1 water budget may be developed and completed by the project applicant. A Tier 2 water budget calculation must be completed by a certified professional who is authorized to complete a water budget. Water budget calculations, if prepared, shall adhere to the following requirements:

- A. The plant factor used shall be from WUCOLS. The plant factor ranges from 0.0 to 0.3 for low water use plants, from 0.4 to 0.6 for moderate water use plants, and from 0.7 to 1.0 for high water use plants.
- B. All water features shall be included in the high water use hydrozone.
- C. All Special Landscape Areas ("SLA") shall be identified and their water use included in the water budget calculations.
- D. The reference evapotranspiration adjustment factor (ETAF) for SLA shall not exceed 1.0. The ETAF for all other landscaped areas shall not exceed 0.7.
- E. Irrigation system efficiency shall be greater than or equal to 70%.
- F. Maximum Applied Water Allowance (MAWA) shall be calculated using the equation below:

$$MAWA = (ET_o) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

Where:

- MAWA = Maximum Applied Water Allowance (gallons per year)
- ET_o = Reference Evapotranspiration (inches per year)
- 0.62 = Conversion Factor (to gallons)
- 0.7 = Reference Evapotranspiration Adjustment Factor (ETAF)
- LA = Landscape Area including SLA (square feet)
- 0.3 = Additional Water Allowance for SLA
- SLA = Special Landscape Area (square feet)

- G. The Town or project applicant may consider Effective Precipitation (25% of annual precipitation) in tracking water use and may use the following equation to calculate the MAWA:

$$MAWA = (ET_o - Eppt) (0.62) [(0.7 \times LA) + (0.3 \times SLA)]$$

- H. Estimated Total Water Use (ETWU) will be calculated using the equation below. The sum of the ETWU calculated for all hydrozones will not exceed the MAWA.

$$ETWU = (ET_o)(0.62) \left(\frac{PF \times HA}{IE} + SLA \right)$$

Where:

- ETWU = Estimated Total Water Use per year (gallons)
- ET_o = Reference Evapotranspiration (inches)
- PF = Plant Factor from WUCOLS (see Section 491)
- HA = Hydrozone Area [high, medium, and low water use areas] (square feet)
- SLA = Special Landscape Area (square feet)

- 0.62 = Conversion Factor
IE = Irrigation Efficiency (minimum 0.70)

15.32.80 Landscape and Irrigation Design Plans

- A. Tier 1 Landscapes: The Landscape and Irrigation Design Plan may be prepared by, and bear the signature of, the project applicant, or that of a certified professional.
- B. Tier 2 Landscapes: The components of the Landscape and Irrigation Design Plan shall be prepared as follows:
- i. The landscape design portion shall be prepared by, and bear the signature of, a licensed landscape architect, licensed landscape contractor, or that of a certified professional who is authorized to design a landscape; and
 - ii. The irrigation design portion shall be prepared by, and bear the signature of, a licensed landscape architect, certified irrigation designer, licensed landscape contractor, or that of a certified professional who is authorized to design an irrigation system.
- C. The landscape design portion of the Landscape and Irrigation Design Plan, at a minimum, shall:
- i. Delineate and label each hydrozone;
 - ii. Identify each hydrozone as low, moderate, high water, or mixed water use;
 - iii. Identify Special Landscape Areas (i.e., recreational areas; areas permanently and solely dedicated to edible plants; areas irrigated with recycled water);
 - iv. Identify type of mulch and application depth;
 - v. Identify type and surface area of water features;
 - vi. Identify hardscapes (pervious and non-pervious); and
 - vii. Contain the following statement: "I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them for the efficient use of water in the Landscape and Irrigation Design Plan."
- D. The irrigation design portion of the Landscape and Irrigation Design Plan, at a minimum, shall contain:
- i. Location and size of separate water meters for landscape;
 - ii. Location, type and size of all components of the irrigation system, including controllers, main and lateral lines, valves, sprinkler heads,

moisture sensing devices, rain switches, quick couplers, pressure regulators, and backflow prevention devices;

- iii. Static water pressure at the point of connection to the public water supply;
- iv. Flow rate (gallons per minute), application rate (inches per hour), and design operating pressure (pressure per square inch) for each station;
- v. Irrigation schedule;
- vi. The following statement: "I have complied with the criteria of the Water Conservation in Landscaping Ordinance and applied them accordingly for the efficient use of water in the Landscape and Irrigation Design Plan."

E. Grading

If the Landscape Project will be graded, then the grading shall be designed to minimize soil erosion, runoff, and water waste. All grading should be conducted to:

- i. Maintain all irrigation and normal rainfall within property lines and avoid drainage on to non-permeable hardscapes;
- ii. Avoid disruption of natural drainage patterns and undisturbed soil;
- iii. Avoid soil compaction in landscape areas; and
- iv. Be consistent with city and county grading requirements.

15.32.090 Landscape Audit Report

- A. Tier 1 Landscapes: Landscape irrigation audits for new or rehabilitated landscapes installed after the effective date of this Ordinance shall be conducted after the landscaping and irrigation systems have been installed. The audit may be conducted by the project applicant or by a certified landscape irrigation auditor.
- B. Tier 2 Landscapes: Landscape irrigation audits for new or rehabilitated landscapes installed after the effective date of this Ordinance shall be conducted by a certified landscape irrigation auditor after the landscaping and irrigation system have been installed.
- C. The Landscape Audit Report shall include, but is not limited to: inspection to confirm that the landscaping and irrigation system were installed as specified in the Landscape and Irrigation Design Plan, system tune-up, system test with distribution uniformity, reporting overspray or run off that causes overland flow, and preparation of an irrigation schedule.
- D. The Landscape Audit Report shall include the following statement: "The landscape and irrigation system has been installed as specified in the Landscape and Irrigation Design Plan and complies with the criteria of the Ordinance and the permit".

- E. The Town shall administer on-going programs that may include, but not be limited to, post-installation landscape inspection, irrigation water use analysis, irrigation audits, irrigation surveys and water budget calculations to evaluate compliance with the MAWA.

15.32.100 Landscape and Irrigation Maintenance Schedule

- A. Landscapes shall be maintained to ensure water use efficiency.
- B. A regular maintenance schedule shall include, but not be limited to, routine inspection; adjustment and repair of the irrigation system and its components; aerating and dethatching turf areas; replenishing mulch; fertilizing; pruning; weeding in all landscape areas; and removing obstructions to emission devices.
- C. Repair of all irrigation equipment shall be done with the originally installed components or their equivalents.
- D. A Project applicant is encouraged to implement sustainable or environmentally-friendly practices for overall landscape maintenance.

15.32.110 Stormwater Management

Stormwater best management practices should be implemented into the landscape and grading design plans to minimize runoff and to increase on-site retention and infiltration and should be consistent with Town and county stormwater management requirements.

15.32.120 Provisions for Existing Landscapes Over One Acre in Size

This section shall apply to all existing landscapes that were installed before the effective date of this Ordinance and are over one acre in size.

- A. Irrigation Audit, Irrigation Survey, and Irrigation Water Use Analysis.
 - i. For landscapes that have a water meter, the Town shall administer programs that may include, but not be limited to, irrigation water use analyses, irrigation surveys, and irrigation audits to evaluate water use and provide recommendations as necessary to reduce landscape water use to a level that does not exceed the MAWA for existing landscapes. The MAWA for existing landscapes shall be calculated as:

$$\text{MAWA} = (0.8) (\text{ET}_o)(\text{LA})(0.62).$$

- ii. For landscapes that do not have a meter, the Town shall administer programs that may include, but not be limited to, irrigation surveys and irrigation audits to evaluate water use and provide recommendations as necessary in order to prevent water waste.

- iii. All landscape irrigation audits for existing landscapes that are greater than one acre in size shall be conducted by a certified landscape irrigation auditor.

B. Water Waste Prevention.

The Town shall prevent water waste resulting from inefficient landscape irrigation by prohibiting runoff from leaving the target landscape due to low head drainage, overspray, or other similar conditions where water flows onto adjacent property, non-irrigated areas, walks, roadways, parking lots, or structures.

15.32.130 Penalties


Compliance with this Ordinance shall be conducted in accordance with Chapter 1.12 of the Town's Municipal Code.

2. Environmental Review. This Ordinance is not subject to the California Environmental Quality Act (Public Resources Code Section 2100 et seq.) ("CEQA") pursuant to Section 15307 and Section 15378(b)(2) of the State CEQA Guidelines, California Code of Regulations, Title 14, Chapter 3, since it makes and implements policies and procedures to ensure that water resources are conserved by reducing water consumption through the establishment of a structure for planning, designing, installing, maintaining and managing water-efficient landscapes.

3. Severability. If any section, subsection, provision or part of this Ordinance, or its application to any person or circumstance, is held to be unconstitutional or otherwise invalid, the remainder of this Ordinance, and the application of such provision to other person or circumstances, shall not be affected thereby and shall remain in full force and effect and, to that end, the provisions of this Ordinance are severable.

4. Effective Date. This Ordinance shall become effective thirty (30) days from the date of its passage, and shall be posted within the Town in three (3) public places.

INTRODUCED:	February 24, 2010
PASSED:	March 10, 2010
AYES:	Councilmember Derwin, Vice Mayor Driscoll, Councilmember Richards, Mayor Toben and Councilmember Wengert
NOES:	None
ABSTENTIONS:	None
ABSENT:	None

By: 

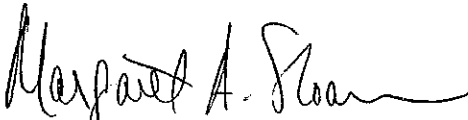
Mayor

ATTEST



Town Clerk

APPROVED AS TO FORM:



Town Attorney