

APPENDIX C

Water Shortage Contingency Plan with Sample Emergency Water Conservation Ordinance and Regulation 15

CUWCC BMP Retail Coverage Report 2009-2010

CUWCC BMP Self Certification/Compliance Documentation

**NORTH MARIN WATER DISTRICT'S
WATER SHORTAGE CONTINGENCY PLAN
FOR GREATER NOVATO AREA**

**NORTH MARIN WATER DISTRICT
WATER SHORTAGE CONTINGENCY PLAN
FOR GREATER NOVATO AREA**

March 2006

Customer Notification

1. NMWD notifies customers by bill message
 - A. Dry water supply conditions exist on the Russian River. Please reduce your water use by 15%. Consult the NMWD website for water saving tips and the latest news on water supply status.
 - B. Critical dry water supply conditions exist on the Russian River. A mandatory _____% reduction in water use is required. Consult the NMWD website for more information.
2. Special issue of NMWD WaterLine will be mailed to all customers during critical dry conditions stipulating mandatory requirements.

Specific Triggers

Stage 1 Trigger: When the Sonoma County Water Agency adopts a Stage 1 Water Emergency (Criteria: Dry Conditions¹ prevail for at least 30 days on the Russian River system.

Stage 2 Trigger: When the Sonoma County Water Agency adopts a Stage 2 Water Emergency provided that storage is not projected to fall below 70,000-acre feet in Lake Sonoma.

Stage 3 Trigger: When the Sonoma County Water Agency adopts a Stage 3 Water Emergency.

Consumption Limits

Stage 1: (Request for up to 15% voluntary reduction)

Residential: 15% voluntary reduction in water use from prior year for similar billing period

¹ Dry Conditions are defined in State Water Resources Control Board Decision 1610 as follows:

Date	Cumulative Inflow to Lake Pillsbury
January 1	8,000 acre feet
February 1	39,200 acre feet
March 1	65,700 acre feet
April 1	114,500 acre feet
May 1	145,000 acre feet
June 1	160,000 acre feet

Commercial and Industrial 15% voluntary reduction in water use from prior year for similar billing period (exceptions may be granted in order to preserve jobs)

Stage 2: (Up to 30% mandatory reduction)

Residential 30% reduction in water use from prior year for similar billing period

Commercial and Industrial: 30% reduction in water use from prior year for similar billing period (exceptions may be granted in order to preserve jobs)

Stage 3: (Up to 50% mandatory reduction)

Residential: Equivalent to X² gallons per person per day

Commercial and Industrial 50% reduction in water use from prior year for similar billing period (exceptions may be granted to preserve jobs)

Stages of Action

Stage 1 Voluntary - achieve up to a 15% reduction³ in water use by implementation of the following

- a. Encourage voluntary rationing
- b. Pursue vigorous enforcement of water wasting regulations and provisions of District's Water Conservation Regulation 15 which requires water saving devices in new construction, prohibits installation of certain wasteful types of turf configurations, and encourages turf avoidance
- c. Request customers to make conscious efforts to conserve water
- d. Request other governmental agencies to demonstrate leadership and implement restrictive water use programs
- e. Distribute water saving kits upon customer request, to assure availability to existing and new customers. (Note: Similar kits were distributed system wide to all customers during the 1976-77 California drought.)
- f. Encourage private sector to use alternate water sources such as recycled water or use of private wells.
- g. Encourage the non-commercial washing of privately owned motor vehicles, trailers and boats only from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.
- h. Encourage nighttime irrigation

Stage 2 Mandatory - achieve up to a 30% reduction³ in water use by declaring a water shortage emergency and implementing Phase 1 (introductory) and Phase 2 (mandatory) of the District's Emergency Water Conservation Ordinance

- a. Under Phase 1, the following uses are declared to be non-essential:

² gpcd is to be determined when the water shortage emergency is declared

³ Exact amount and Districtwide measurement of goal and method of achievement to be established by Board of Directors after examining projected supplies from SCWA, Stafford Lake and treatment plant and emergency well sources and after holding water shortage emergency hearing.

- (1) washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Novato Fire Protection District or other public agency for the purpose of public safety;
 - (2) refilling a swimming pool;
 - (3) Non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.
 - (4) Request restaurants to serve water only upon request.
- b. The following additional uses are declared to be non-essential under Phase 2:
- (1) any use of water from a fire hydrant except for fighting fires, human consumption, essential construction needs or use in connection with animals;
 - (2) watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a hand-held hose or container or drip irrigation system except sprinklers can be used if customer maintains a 30% reduction compared to prior year's use in same billing period;
 - (3) watering any portion of a golf course except the tees and greens except where private well or recycled water supply is used;
 - (4) use of water for dust control at construction sites;
 - (5) initial filling of any swimming pool;
 - (6) use by a vehicle washing facility in excess of 30% less than the amount used by it during the corresponding billing period in prior year;
 - (7) any non-residential use in excess of 30% less than the amount used by the customer during the corresponding billing period in prior year

Stage 3 Mandatory - achieve up to a 50%² reduction in water use by enacting Phase 3 of the District's Emergency Water Conservation Ordinance.

- a. The following additional uses are declared to be non-essential:
- (1) Watering any residential lawn, or any commercial or industrial area lawn maintained for aesthetic purposes, at any time day or night during the period of March 1, through September 30, when a Stage 3 rationing plan is in progress. (These designated lawns will be allowed to dry up for the summer. Affected customers will be advised on tested methods for re-greening the lawns at minimum expense beginning on October 1, during a Stage 3 rationing period if operating conditions permit. By following the prescribed instructions, the affected customers will likely avoid the cost of replacing the lawns.)
 - (2) Planting any new landscaping, except for designated drought resistant landscaping prescribed by the District.
 - (3) Public agencies may apply to the General Manager for exemptions for watering specific public lawns used extensively for community wide recreation. Such public area lawn watering shall only be done under methods and time periods prescribed by the General Manager. Such exemptions will only be given by the General Manager, if a 50% or greater conservation level can otherwise be achieved on a service area basis.

- (4) Golf courses may only use private well or recycled water for general irrigation. Golf courses may apply to the General Manager for specific exemptions to water greens only, and then only under methods and time periods prescribed by the General Manager. Such exemptions will only be given by the General Manager, if a 50% or greater conservation level can otherwise be achieved on a service area basis.
 - (5) All day and nighttime sprinkling will be discontinued. Any and all outside watering will be done only with a hand held nozzle. An exception will be made to permit drip irrigation for established perennial plants and trees using manual or automatic time controlled water application sufficient only for assured plant survival.
 - (6) No new annual plants, vegetables, flowers or vines may be planted until the Stage 3 emergency is over. An exception will be made for customers who are eliminating existing thirsty landscaping and replacing same with drought resisting landscaping prescribed by the District, as in (2) above.
- b. The following additional voluntary actions will be recommended for District customers:
- (1) Navy style showering will be promoted (e.g., turn on water to wet person or persons, turn off water, lather up, scrub, then turn on water for a quick rinse, then turn off shower).
Customers will be provided push button showerhead control valves upon request, and at no direct charge to them, to better allow them to take "Navy style showers."
 - (2) Customers will be urged not to regularly flush their toilets for disposal of urine only.

Plan Preparation

This plan has been coordinated with the Sonoma County Water Agency and the other regular contractors which utilize the Sonoma County Water Agency Aqueduct System and the City of Novato, and County, State and Federal Emergency Services Offices.

Adoption of Plan

The emergency rationing plan will be enacted after public hearing required by the District's Emergency Water Conservation Ordinance and a determination by the District's Board of Directors that a Water Shortage Emergency exists.

Monitoring of Actual Water Use

Monitoring of water use will be by meters with data analysis using the District's computers.

Mandatory Prohibitions

Wasting of water is prohibited by Regulation 15 of the North Marin Water District.

Phase 2 and Phase 3 of the Emergency Ordinance contain specific mandatory provisions.

Revenue and Expenditure Analysis

Assessment of potential revenue losses will be made as each stage is implemented and rate adjustments thereafter will be made in a timely manner to guarantee continued operation of the water system with reduced water sales.

The District Board of Directors will review all aspects of rate design and its reserve position before deciding whether to pass on the revenue loss, in part or in full, in the form of a rate adjustment to the ratepayers.

DRAFT
NORTH MARIN WATER DISTRICT
EMERGENCY WATER CONSERVATION ORDINANCE

Section 1. Declaration of a Water Shortage Emergency	1
Section 2. Purpose and Authority	1
Section 3. Effect of Ordinance	2
Section 4. Suspension of New Connections to the District's Water System	2
Section 5. Waste of Water Prohibited.....	2
Section 6. Prohibition of Non-Essential Use of Water.....	2
Phase 1 - Introductory Phase	2
Phase 2 - Moderate Mandatory Rationing (30% reduction).....	3
Phase 3 - Severe Mandatory Rationing (50% reduction)	3
Section 7. Variances	4
Section 8. Violations	4
Section 9. Signs on Lands Supplied from Private Wells or Recycled Water	4
Section 10. Use of Sprinklers Conditional.....	5

DRAFT
EMERGENCY WATER CONSERVATION ORDINANCE
ORDINANCE NO.

AN ORDINANCE OF NORTH MARIN WATER DISTRICT DECLARING THE EXISTENCE OF A WATER SHORTAGE EMERGENCY CONDITION WITHIN A PORTION OF THE DISTRICT, PROHIBITING THE WASTE AND NON-ESSENTIAL USE OF WATER, AND PROVIDING FOR THE CONSERVATION OF THE WATER SUPPLY OF THE DISTRICT

BE IT ORDAINED by the Board of Directors of North Marin Water District as follows:

Section 1. Declaration of a Water Shortage Emergency

This Board of Directors does hereby find and declare as follows:

(a) Pursuant to Resolution No. _____ duly adopted by this Board on _____, a public hearing was held on _____, on the matter of whether this Board of Directors should declare a water shortage emergency condition exists within the water service area of this District which is served by Stafford Lake and the North Marin Aqueduct.

(b) Notice of said hearing was published in the _____, a newspaper of general circulation printed and published within said water service area of the District.

(c) At said hearing all persons present at said hearing were given an opportunity to be heard and all persons desiring to be heard were heard.

(d) Said hearing was called, noticed and held in all respects as required by law.

(e) This Board heard and has considered each protest against the declaration and all evidence presented at said hearing.

(f) A water shortage emergency condition exists and prevails within the portion of the territory of this District served by Stafford Lake and the North Marin Aqueduct. Said portion of this District is hereinafter referred to as the Novato area and consists in all the territory of this District except the portions hereof in the western part of Marin County denominated Annexations 2, 3, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15 and 16 generally known as Point Reyes Station, Inverness Park, Olema, Oceana Marin, and territories on the east shore of Tomales Bay. Said water shortage exists by reason of the fact that the ordinary demands and requirements of the water consumers in the Novato area cannot be met and satisfied by the water supplies now available to this District in the Novato area without depleting the water supply to the extent that there would be insufficient water for human consumption, sanitation and fire protection.

Section 2. Purpose and Authority

The purpose of this ordinance is to conserve the water supply of the District for the greatest public benefit with particular regard to public health, fire protection and domestic use, to conserve water by reducing waste, and to the extent necessary by reason of drought and the existing water shortage emergency condition to reduce water use fairly and equitably. This ordinance is adopted pursuant to Water Code Section 350 to and including 358, and Sections 31026 to and including 31029.

Section 3. Effect of Ordinance

This ordinance shall take effect immediately, shall be effective only in the Novato area, shall supersede and control over any other ordinance or regulation of the District in conflict herewith, and shall remain in effect until the Board of Directors declares that the water shortage emergency has ended.

Section 4. Suspension of New Connections to the District's Water System

(a) From and including _____, the Board of Directors by resolution declares that the water shortage has ended, which period is hereinafter referred to as the suspension period, no new or enlarged connection shall be made to the District's water system except the following:

- (1) connection pursuant to the terms of connection agreements which prior to _____, had been executed or had been authorized by the Board of Directors to be executed;
- (2) connections of fire hydrants;
- (3) connections of property previously supplied with water from a well which runs dry.
- (4) connection of property for which the Applicant agrees to defer landscape installation until after the suspension period.

(b) During the suspension period applications for water service will be processed only if the Applicant acknowledges in writing that such processing shall be at the risk and expense of the Applicant and that if the application is approved in accordance with the District's regulations, such approval shall confer no right upon the Applicant or anyone else until the suspension period has expired, and that the Applicant releases the District from all claims of damage arising out of or in any manner connected with the suspension of connections.

(c) Upon the expiration of the suspension period, the District will make connections to its water system in accordance with its regulations and the terms of connection agreements for all said applications approved during the suspension period. The water supply then available to the District will be apportioned equitably among all the customers then being served by the District without discrimination against services approved during the suspension period.

(d) Nothing herein shall prohibit or restrict any modification, relocation or replacement of a connection to the District's system if the General Manager determines that the demand upon the District's water supply will not be increased thereby.

Section 5. Waste of Water Prohibited

No water furnished by the District shall be wasted. Waste of water includes, but is not limited to, the following:

- (a) permitting water to escape down a gutter, ditch or other surface drain;
- (b) failure to repair a controllable leak of water;
- (c) failure to put to reasonable beneficial use any water withdrawn from the District's system.

Section 6. Prohibition of Non-Essential Use of Water

(a) No water furnished by the District shall be used for any purpose declared to be non-essential by this ordinance.

Phase 1 - Introductory Phase

- (b) The following uses are declared to be non-essential from and after _____:

- (1) washing sidewalks, driveways, parking areas, tennis courts, patios or other exterior paved areas except by the Novato Fire Protection District or other public agency for the purpose of public safety;
- (2) refilling a swimming pool drained after _____;
- (3) non-commercial washing of privately-owned motor vehicles, trailers and boats except from a bucket and except that a hose equipped with a shut-off nozzle may be used for a quick rinse.

Phase 2 - Moderate Mandatory Rationing (30% reduction)

- (c) The following additional uses are declared to be non-essential from and after _____:
- (1) any use of water from a fire hydrant except for fighting fires, human consumption, essential construction needs or use in connection with animals;
 - (2) watering of any lawn, garden, landscaped area, tree, shrub or other plant except from a handheld hose or container or drip irrigation system except as provided in Section 10 hereof;
 - (3) watering any portion of a golf course except the tees and greens except as provided in Section 10 hereof or where private well or recycled water supply is used;
 - (4) use of water for dust control at construction sites;
 - (5) initial filling of any swimming pool for which application for a building permit was made after _____;
 - (6) use by a vehicle washing facility in excess of 30% less than the amount used by it during the corresponding billing period in _____. If the facility was not operating in _____, an assumed amount shall be computed by the District from its records. This subsection shall not apply to any facility that recycles water in a manner satisfactory to the District.
 - (7) any non-residential use in excess of 30% less than the amount used by the customer during the corresponding billing period in _____. If connection to the District system was not in existence or use in _____, an assumed amount will be computed from the District's records.

Phase 3 - Severe Mandatory Rationing (50% reduction)

(d) From and after the date that the Board of Directors, by resolution, determines that the water shortage emergency requires severe rationing, the following additional uses are declared to be non-essential:

- (1) Watering any residential lawn, or any commercial or industrial area lawn maintained for aesthetic purposes, at any time of the day or night during the period of March 1, through September 30, when a Stage 3 is in progress.
- (2) Planting any new landscaping, except for designated drought resistant landscaping prescribed by the District.
- (3) All day and nighttime sprinkling will be discontinued. Any and all outside watering will be done only with a hand held nozzle. An exception will be made for carefully timed drip irrigation for established perennial plants and trees. Only sufficient water for assured plant survival may be applied.
- (4) No new annual plants, vegetables, flowers or vines may be planted during the Stage 3 emergency period. An exception will be made for customers who are eliminating

existing thirsty landscaping and replacing same with drought resisting landscaping prescribed by the District, as in (2) above.

The combined rationing including Phase 1, 2, and 3 is designed to achieve a minimum reduction of 50% or more in Novato service territory water consumption as compared with normal annual usage.

(e) The percentages stipulated in Phase 2 and Phase 3 may be increased by the General Manager for any class of customer if the General Manager determines that such increase is necessary to protect the public health, safety and welfare or to spread equitably among the water users of the District the burdens imposed by the drought and the shortage in the District's water supply.

Section 7. Variances

Applications for a variance from the provisions of Section 6 of this ordinance may be made to the General Manager. The General Manager may grant a variance to permit a use of water otherwise prohibited by Section 6 if the General Manager determines that the variance is reasonably necessary to protect the public health and safety. Any decision of the General Manager under this section may be appealed to the Board of Directors.

Section 8. Violations

(a) If and when the District becomes aware of any violation of any provision of Section 5 or 6 of this ordinance, a verbal warning will be given, then if the violation continues or is repeated, a written notice shall be placed on the property where the violation occurred and mailed to the person who is regularly billed for the service where the violation occurs and to any other person known to the District who is responsible for the violation or its correction. Said notice shall describe the violation and order that it be corrected, cured and abated immediately or within such specified time as the General Manager determines is reasonable under the circumstances. If said order is not complied with, the District may forthwith disconnect the service where the violation occurs.

(b) For the first offense, a fee of \$50 shall be paid for the reconnection of any service disconnected pursuant to subsection (a) during the suspension period. For each subsequent violation of Section 8 (a), the fee for reconnection shall be \$75.

(c) No service which is disconnected twice because of a violation of Section 5 or 6 of this ordinance during the suspension period, shall be reconnected unless a device supplied by the District which will restrict the flow of water to said service is installed. Furthermore, the fee for reconnection of such a service during the suspension period shall be \$100 in lieu of the fee required by subsection (b) hereof.

(d) In the event the District determines that water furnished by the District has been used to fill a swimming pool in violation of Section 5 or 6 hereof, service shall be disconnected and shall be reconnected pursuant to Section 8 (b) hereof, as applicable, except that the reconnection fee shall be \$200 for each subsequent offense.

Section 9. Signs on Lands Supplied from Private Wells or Recycled Water

The owner or occupant of any land within the Novato water service area that is supplied with water from a private well or with recycled water shall post and maintain in a conspicuous place thereon a sign furnished by the District giving public notice of such supply.

Section 10. Use of Sprinklers Conditional

Any customer of the District may use a sprinkler or sprinkler system to apply water furnished by the District to irrigate any lawn, garden, landscaped area, trees or shrubs provided said application is attended, properly controlled, performed in a non-wasteful manner and confined to the hours between 7:00 p.m. and 9:00 a.m. of the next day. The term sprinkler shall be defined to include soaker hoses or lines. The privilege to use a sprinkler or sprinkler system shall be banned for all customers in the event the Board of Directors of the District determines that the aggregate water use by all customers exceeds 50% of the amount of water used by all customers for a similar period 12 months prior. The General Manager of the District may temporarily prohibit the use of sprinklers in part of or the entire water system if in his judgement such use may reduce the District's water supplies below levels adequate for human consumption, sanitation and fire protection purposes. The District reserves the right to check the water use of any customer and if such use exceeds 50% of the use by the same customer or account for the corresponding period in _____ or if sprinkled water is used in a wasteful manner, the General Manager may prohibit sprinkling by that customer.

* * * * *

I hereby certify that the foregoing is a true and complete copy of an ordinance duly and regularly adopted by the Board of Directors of North Marin Water District at a regular meeting thereof held on _____ by the following vote:

- AYES: Directors
- NOES:
- ABSENT:
- ABSTAINED:
- (SEAL)

Secretary
North Marin Water District

**NORTH MARIN WATER DISTRICT
REGULATION 15
WATER CONSERVATION - NOVATO SERVICE AREA**

A. Purpose

The purpose of this regulation is to assure that water resources available to the District are put to reasonable beneficial use, that the instream values of Novato Creek and the Russian River are preserved to the maximum possible extent and that the benefits of the District's water service extend to the largest number of persons.

B. Waste of Water Prohibited

- (1) Customers shall not permit any water furnished by the District for the following nonessential uses:
 - (a) The washing of sidewalks, walkways, driveways, parking lots and other hard surfaced areas by direct hosing when runoff water directly flows to a gutter or storm drain, except as may be necessary to properly dispose of flammable or other dangerous liquids or substances, wash away spills that present a trip and fall hazard, or to prevent or eliminate materials dangerous to the public health and safety;
 - (b) The escape of water through breaks or leaks within the customers' plumbing or private distribution system for any substantial period of time within which such break or leak should reasonably have been discovered and corrected. It shall be presumed that a period of seventy-two (72) hours after the customer discovers such a break or leak or receives notice from the District, is a reasonable time within which to correct such break or leak, or, as a minimum, to stop the flow of water from such break or leak;
 - (c) Irrigation in a manner or to an extent which allows excessive run-off of water or unreasonable over-spray of the areas being watered. Every customer is deemed to have his/her water system under control at all times, to know the manner and extent of his/her water use and any run-off, and to employ available alternatives to apply irrigation water in a reasonably efficient manner;
 - (d) Washing cars, boats, trailers or other vehicles and machinery directly with a hose not equipped with a shutoff nozzle;
 - (e) Water for non-recycling decorative water fountains;
 - (f) Water for new non-recirculating conveyor car wash systems;
 - (g) Water for new non-recirculating industrial clothes wash systems;
 - (h) Water for single pass coolant systems.
- (2) Exempt Water Uses. All water use associated with the operation and maintenance of fire suppression equipment or employed by the District for water quality flushing and sanitation purposes shall be exempt from the provisions of this section. Use of water supplied by a private well or from a reclaimed wastewater, gray water or rainwater utilization system is also exempt.
- (3) Variances. Any customer of the District may make written application for a variance. Said application shall describe in detail why Applicant believes a variance is justified.

- (a) The General Manager of the District may grant variances for use of water otherwise prohibited by this section upon finding and determining that failure to do so would cause an emergency condition affecting the health, sanitation, fire protection or safety of the Applicant or public; or, cause an unnecessary and undue hardship on Applicant or public, including but not limited to, adverse economic impacts, such as loss of production or jobs.
 - (b) The decision of the General Manager of the District may be appealed to the Board of Directors by submitting a written appeal to the District within fifteen (15) calendar days of the day of the General Manager's decision. Upon granting any appeal, the Board of Directors may impose any conditions it determines to be just and proper. Variances granted by the Board of Directors shall be prepared in writing and the Board of Directors may require the variance be recorded at Applicant's expense.
- (4) Enforcement. Depending on the extent of the water waste, the District may, after written notification to customer and after a reasonable time to correct the violation as solely determined by the District, take some or all of the following actions:
- (a) Telephone the customer to inform of the water waste violation including a specified period of time to correct the violation;
 - (b) Personal contact with the customer at the address of the water service. If personal contact is unsuccessful, written notice of the violation including a date that the violation is to be corrected may be left on the premises with a copy of the notice sent by certified mail to the customer;
 - (c) The District may install a flow-restricting device on the service line;
 - (d) The District may cause termination of water service and the charge for same shall be billed to the customer. Except in cases of extreme emergency as solely determined by the General Manager of the District, service shall not be reinstated until verified by the District that the violation has been corrected and all outstanding charges have been paid.

C. Use of Water Saving Devices

Each customer of the District is urged to install devices to reduce the quantity of water to flush toilets and to reduce the flow rates of showers and interior faucets.

D. Water-Saving Kits

The District will make available, without cost to program participants for use in each residence receiving water service from the District and constructed prior to January 1, 1992, a water-saving kit containing the following:

- (1) A device or devices for reducing shower flow rates;
- (2) A dye tablet or tablets for determining if a toilet tank leaks;
- (3) Other devices from time to time approved by the District;
- (4) Installation and other instructions and information pertinent to conservation of water.

E. Water-Saving Devices and Restrictions for New Development

- (1) Water service will not be furnished to any Applicant unless the water-saving devices hereinafter described are installed. Applicants for single service installations serving one dwelling unit (d.u.) or one d.u. and an accessory d.u. shall pay a \$1,000

deposit per d.u. to be refunded upon post inspection of the installation of the water-saving devices and restrictions and compliant water efficient landscape (section F) herein. All other projects may be subject to a water conservation deposit with amount and applicability determined by the General Manager on a case-by-case basis.

- (2) All interior plumbing and appliances in new development shall meet the following requirements:
 - (a) Toilets and associated flush valves shall be High Efficiency Toilets (HETs), rated at not more than 1.28 gallons per flush on average, and shall be listed on the approved District HET list;
 - (b) Urinals and associated flush valves shall be rated at not more than 0.125 gallons per flush or be a District approved non-water using urinal;
 - (c) Shower heads shall have a rated flow of 2.0 gallons per minute or less, and only one shower head will be allowed per bathroom;
 - (d) Lavatory faucets and hand-washing sinks shall have aerators or laminar flow devices together with flow control inserts, valves, devices or orifices that restrict flow to a maximum of 1.5 gallons per minute in residential construction and 0.5 gallons per minute in commercial construction. Kitchen faucets shall have a maximum flow of 2.2 gallons per minute in all construction;
 - (e) Laundry facility washing machines shall be front loading horizontal axis models with an Energy Star rating and a modified water factor of 5.5 or less;
 - (f) Dishwashers shall be high efficiency models with an Energy Star rating that use no more than 5 gallons per cycle;

F. Water Efficient Landscape Requirement

- (1) Purpose. Section 2 of Article X of the California Constitution specifies that the right to use water is limited to the amount reasonably required for the beneficial use to be served and the right does not and shall not extend to waste or unreasonable method of use. This Regulation protects water supplies through the implementation of a whole systems approach to design, construction, installation and maintenance of the landscape resulting in water conserving climate-appropriate landscapes, improved water quality and the minimization of natural resource inputs.
- (2) Applicability
 - a. Requirements stated herein shall apply to all of the following new and rehabilitated landscape projects that require a Building or Grading Permit, Plan Check, Design Review or water service upgrade:
Commercial, industrial and institutional landscaping, park and greenbelt landscaping, multiple-family residential and single-family residential landscaping.
 - b. Requirements stated herein shall:
 - i. Registered local, state or federal historical landscape area;
 - ii. Ecological restoration or mined-land reclamation projects that do not require a permanent irrigation system.
- (3) Landscape Design Plan. For each landscape project subject to this Regulation, applicants shall submit a landscape design plan and install a landscape in accordance with the following:

- a. Amendments, Mulching and Soil Conditioning
 - i. A minimum of 8" of non-mechanically compacted soil shall be available for water absorption and root growth in planted areas.
 - ii. Incorporate compost or natural fertilizer into the soil to a minimum depth of 8" at a minimum rate of 6 cubic yards per 1000 square feet or per specific amendment recommendations from a soils laboratory report.
 - iii. A minimum 3" layer of mulch shall be applied on all exposed soil surfaces of planting areas except in turf areas, creeping or rooting groundcovers or direct seeding applications.
- b. Plants
 - i. Selected plants shall not cause the Estimated Water Use to exceed the Maximum Applied Water Allowance using 0.6 of evapotranspiration.
 - ii. Plants with similar water use needs shall be grouped together in distinct hydrozones and where irrigation is required the distinct hydrozones shall be irrigated with separate valves.
 - iii. Low and moderate water use plants can be mixed, but the entire hydrozone will be classified as moderate water use for MAWA calculations.
 - iv. High water use plants shall not be mixed with low or moderate water use plants.
 - v. All non-turf plants shall be selected, spaced and planted appropriately based upon their adaptability to the climatic, soils, and topographical conditions of the project site.
 - vi. Turf shall not be planted in the following conditions:
 - 1. Slopes exceeding 10%
 - 2. Planting areas 8 feet wide or less
 - 3. Street medians, traffic islands, planter strips or bulbouts of any size
 - vii. Total turf areas shall not exceed the following
 - 1. Single Family: 800 square feet
 - 2. Townhouse/Condominium (THC): 400 square feet
 - 3. Apartment (APT): 130 feet
 - 4. Commercial and/or non-residential: 0 square feet
 - viii. Invasive plants as listed by the California Invasive Plant Council are prohibited.
- c. Water Features
 - i. Recirculating water systems shall be used for water features
 - ii. Recycled water shall be used when available onsite.
- (4) Irrigation Design Plan. For each landscape project subject to this Regulation, applicants shall submit an irrigation design plan that is designed and installed to meet the MAWA irrigation efficiency criteria and in accordance with the following:
 - a. Dedicated irrigation meter or private landscape water or submeter for residential must be specified
 - b. Irrigation systems with meters 1 1/2" or greater require a high-flow sensor that can detect high-flow conditions and have the capabilities to shut off the system.

- c. Isolation valves shall be installed at the point of connection and before each valve or valve manifold.
- d. Weather-based or other sensor based self-adjusting irrigation controllers shall be required.
- e. Rain sensors shall be installed for each irrigation controller
- f. Pressure regulation and/or booster pumps shall be installed so that all components of the irrigation system operate at the manufacturer's recommended optimal pressure.
- g. Irrigation system shall be designed to prevent runoff or overspray onto non-targeted areas.
- h. Point source irrigation is required where plant height at maturity will affect the uniformity of an overhead system.
- i. Minimum 24" setback of overhead irrigation is required where turf is directly adjacent to a continuous hardscape that flows into the curb and gutter.
- j. Slopes greater than 15% shall be irrigated with point source or other low-volume irrigation technology.
- k. A single valve shall not irrigate hydrozones that mix high water use plants with moderate or low water use plants.
- l. Trees shall not be placed on separate valves except when planted in turf areas.
- m. All non-turf landscape areas shall be irrigated with District approved drip irrigation systems or other alternative point source irrigation.
- n. Sprinkler heads, rotors and other emission devices on a valve shall have matched precipitation rates. All spray irrigation systems shall be a brake rotary type and be multi-stream, multi-trajectory, adjustable arc, rotating stream sprinkler with matched precipitation rates. All rotating stream sprinkler units shall be installed in a 40 psi pressure regulated spray head body and provide the highest potential distribution uniformity.
- o. Head-to-head coverage is required unless otherwise directed by the manufacturer's specifications
- p. Swing joints or other riser protection components are required on all risers.
- q. Check valves shall be installed to prevent low-head drainage.

G. Rebate for Energy Star Washing Machines in Residences

District customers in the Novato Service area are eligible for rebate as available from time to time for front loading / horizontal axis, Energy Star washing machines in existing residences. New residential construction in the District's Novato service area are required to be equipped with washing machines in accordance with Section E. (2) (e) of this regulation. District rebates are not available for Energy Star Washing Machines in new residential construction.

H. Rebate for Removing Irrigated Turf from Residential Properties

- (1) The owner of property containing a formal lawn area or areas shall be eligible for a cash rebate from the District if said owner removes all or part of the formal lawn area(s) and replaces same with eligible plant materials and meets the qualification requirements. "Formal lawn area" means an existing lawn in good condition which is irrigated regularly, by an automatic inground irrigation system, with water furnished by the District and mowed regularly.
- (2) Qualification requirements:
 - (a) Application for rebate must be made on District's form prior to removing the formal lawn area(s). All applicable information requested must be supplied;
 - (b) Application for rebate must include a landscape plan or sketch showing the size, in square feet, and location of all formal lawn area(s) on the Applicant's parcel and the location of formal lawn area(s) that will be removed and replaced;
 - (c) The Applicant must utilize only eligible replacement materials for the formal lawn area(s) removed which are to be considered in calculating the rebate. Eligible replacement materials are District approved water-conserving and low water use California native plants or District-approved synthetic turf;
 - (d) If the automatic in-ground irrigation system will continue to serve some remaining formal lawn area(s), Applicant must modify the system so that water is not served to the proposed replacement area;
 - (e) Formal lawn area(s) removed and replanted with eligible replacement materials shall be mulched with material suitably thick to prevent weed growth (minimum three inches) and reduce water loss. Areas shall not be irrigated except for limited supplemental hand-watering or temporary drip irrigation to establish the plant material;
 - (f) The owner of the property must sign a statement promising not to reinstall lawn in formal lawn area(s) where lawn has been removed as long as the owner holds property. The owner may be relieved of this promise at any time by returning the full amount of the District's rebate;
 - (g) The General Manager may at any time halt or suspend acceptance of applications for rebate if the District's funds appropriated for this purpose become exhausted.
- (3) After reviewing the information supplied by the Applicant and making at least one site inspection to assure that qualification conditions have been met, District shall mail a rebate check.
- (4) The amount of the rebate shall be determined by the Board from time-to-time.

Rebates may be available for non-residential property or for hotels, motels, hospitals, government housing or a senior citizen complex on a parcel which is separately owned and assessed. Maximum rebate amount for a non-residential property shall be determined by General Manager on a case-by-case basis.
- (5) Synthetic turf replacements of formal lawn area may be eligible for a higher rebate level to be determined by the General Manager on a case-by-case basis.

I. Landscape Rebate Alternatives

- (1) The District will consider, and may approve, requests to substitute for any of the requirements in section F, well-designed alternatives or innovations that will effect similar significant and continuing reductions of water requirements.
- (2) The District will rebate \$50 for landscape installation in existing dwellings meeting the standards listed in Section H and over 500 square feet in area if the customer has:
 - (a) Removed or killed the lawn area prior to making application for rebate;
 - (b) Replaced the lawn with landscape no more than one month before alerting the District;
 - (c) Re-landscaping a lawn area that was not regularly mowed and irrigated turf.Determination of eligibility shall be at the sole discretion of the General Manager or Designee.

J. High Efficiency Toilet Replacement Program(s)

- (1) A High Efficiency Toilet (HET) is defined as any toilet that is rated at 20% or less water use on average than a standard 1.6 gallon per flush toilet. This includes District approved 1.0 gallons per flush pressure assist toilets or dual flush models.
- (2) Any qualifying customer of the District who removes and recycles all toilets rated to use more than 1.6 gallons per flush and replaces same with a District approved HET may request and receive a cash rebate in an amount established by the Board of Directors from time to time for each such toilet removed, recycled and replaced.
- (3) To qualify for a rebate(s) hereunder, application shall be made on a form available from the District and person signing application shall:
 - (a) Request District make a brief inspection of customer's structure at a time and date approved in advance by customer to identify water conservation measures appropriate and effective for the customer to implement. Should customer refuse access for an inspection, District shall not be under any obligation to make a rebate. Inspection requirements are subject to available staff time;
 - (b) Be a customer of the District and the customer's structure in which the replaced toilet(s) is located shall be served water in the District's Novato Service Area;
 - (c) Provide District with bill of sale or original receipt of sale within the current fiscal year and made out to said customer by person or vendor selling customer the HET or, in lieu thereof, provide District with letter addressed to said customer signed by a licensed plumber or contractor stating that a HET(s) has been installed by said plumber or contractor at the customer's address;

- (d) Recycle toilets at a predetermined District site with all internal mechanisms, toilet seat and all other wood, metal and plastic removed, if recycling outlet is available.
- (4) If the customer is renting the structure, a rebate will be made provided customer includes with the application a letter from the owner of the property consenting to District making rebate payment to customer for the replacement of a non-water conserving toilet(s).
- (5) Rebates are not available for toilets installed in buildings constructed after January 1, 1992 or for replacement of toilets rated to use 1.6 gallons per flush.
- (6) Free or subsidized HET giveaways may be available to customers from time to time. Eligibility requirements listed in J (3) (a) to (d) apply to this program should it become available.

K. Landscape Water Efficiency Rebate

- (1) Landscape water efficient rebates are available to customers who install District qualified water efficient landscape equipment including:
 - (a) Drip irrigation systems
 - (b) Water pressure-regulating devices
 - (c) Check valves
 - (d) Multi-stream rotating sprinkler nozzles (lawn areas only)
 - (e) Rain shut-off devices
 - (f) Mulch
 - (g) Soil conditioner/amendment
- (2) Rebate amounts will be established by the Board of Directors from time to time depending on customer classification and water savings potential. Customers are allowed only up to the maximum rebate level for the life of the program.
- (3) Applicant shall request and agree to a brief District pre-inspection of customer's property to identify water efficient landscape actions to be taken. District will pre-approve and post inspect to confirm the retrofit installations. Inspections are subject to available staff time.
- (4) Applicant shall provide District with a complete bill of sale or original receipt of sale within the current fiscal year, clearly showing the purchase of the landscape water efficiency installed items noted in the pre-inspection.
- (5) Free or subsidized water efficient landscape items such as rain sensors, and mulch may be available to customers. Eligibility requirements listed in K (1) through (3) apply should items become available.

L. Rebates for District Approved Swimming Pool Covers

District customers are eligible for rebates as available from time to time for purchasing District approved swimming pool covers. Eligible pool covers must be a solar or safety cover with non-netted type material, at least 12 mil in thickness, and at least 450 square feet.

M. Requirement for Installation of Water Conserving Plumbing Fixtures Upon Change of Property Ownership

(1) Definitions.

- (a) "Water Conserving Plumbing Fixtures" means any toilet rated at 1.6 gallons of water per flush or less, urinals that are rated at 1.0 gallons of water per flush, showerheads with a flow rated at 2.0 gallons of water per minute or lavatory faucets that can emit no more than 1.5 gallons of water per minute;
- (b) "Change in Property Ownership" means a transfer of present interest of real property, or a transfer of the right to beneficial use thereof, the value of which is substantially equal to the proportion of ownership interest transferred.
- (c) "Retrofit" means replacing "Existing Plumbing Fixtures" with "Water-Conserving Plumbing Fixtures;"
- (d) "Existing Plumbing Fixtures" means any toilet using more than 1.6 gallons of water per flush, urinals using more than 1.0 gallons of water or more per flush, showerheads with a flow rated more than 2.0 gallons of water per minute or lavatory faucets that emit more than 1.5 gallons of water per minute.
- (e) "Existing Structure" means any structure built and available for use or occupancy on or before January 1, 1992, which is equipped with a toilet using more than 1.6 gallons of water per flush or a urinal using more than 1.0 gallons of water per flush.

(2) Retrofit Upon Change of Property Ownership.

All existing plumbing fixtures in existing structures receiving water from the District's water system shall, at the time of change of ownership, be retrofitted, if not already done, exclusively with water conserving plumbing fixtures as defined in Section m.(1) of this regulation.

(3) Compliance and Penalties

Compliance shall be by the honor system. It shall be the Seller's responsibility to obtain, in addition to any normal permits required by agencies other than the District, from the District a Certificate of Compliance acknowledging that the Seller or title holder has stated that the retrofit installation required by this Regulation has been completed. If the District later determines or finds that the work was not done or was not completed or that water conserving plumbing fixtures are no longer present, the District may assess an annual fee of 20% of the estimated annual water bill as determined by the District until the owner of the property demonstrates that the required retrofit work has in fact been done. A site inspection shall be required in such cases and the owner shall be charged \$35 for each such site inspection as an added fee on the owner's water bill.

(4) Alternative Compliance Procedure for Transfers of Residential Property

At Seller's option, Seller shall pay the District \$315 per bathroom that does not fully comply with Regulation 15 M. Half bathrooms shall count as one bathroom. The District shall thereupon immediately provide a Certificate of Compliance to Seller. Buyer shall then be responsible for installation of the water conserving plumbing

fixtures and Seller shall provide Buyer with a copy of District Regulation 15 M. and shall notify Buyer of this requirement in writing before close of escrow. Buyer shall have one year from the date of close of escrow to install such fixtures. Upon being notified that said fixtures have been installed and making a brief inspection confirming installation, the District shall pay the Buyer an amount equal to the payment made to District by Seller. If after one year, the water conserving plumbing fixtures have not been installed, the District shall use this money for any other Board approved water conservation program and shall be under no obligation to pay said money to Buyer.

(5) Responsibility for Compliance Negotiable

The Seller is responsible for compliance with Regulation 15 M, however responsibility for payment of the deposit specified in Section M(4) may be assumed by the Buyer so long as the agreement is not otherwise inconsistent with the terms of Regulation 15 M. Any such agreement shall be evidenced in a writing signed by both the Buyer and Seller.

N. Weather Based Irrigation Controller Installation Program

- (1) A weather based irrigation controller is defined as any irrigation controller using weather data to create the actual irrigation schedule and which schedule is automatically adjusted by the controller to meet the applied water demand based on actual weather data. Weather based irrigation controllers may either receive "real time" weather data or generate their weather data using an integrated solar radiation sensor.
- (2) District customers using more than an average of 600 gallons per day are eligible for rebates or vouchers as available from time to time for purchasing District approved weather based irrigation controllers. Directly installed weather based irrigation controllers may be available from time to time. Customers receiving weather based irrigation controller rebates or vouchers may be subject to a pre and post installation inspection.

O. Exemptions from Provisions Set Forth in Regulation 15 (A. through N.)

(1) Retrofit Exemptions

The District's General Manager may grant an exemption from section M in the following instances:

- (a) Unavailability of Water Conserving Plumbing Fixtures to either match a well-defined historic architectural style fitted with authentic plumbing fixtures or accommodate existing house plumbing without bathroom alteration;
- (b) Special health circumstances upon submittal of reasonable evidence that demonstrates that specific plumbing fixtures are required by the user that may not meet the Water Conserving Plumbing Fixture criteria defined by this regulation.
- (c) Faucets at kitchen sinks or antique faucets which do not have standard threaded openings for aerators.

(2) Other Exemptions

The District's General Manager may grant exemptions from section A. through N. for purposes of health, safety and sanitation or if Applicant demonstrates an "at least as effective as" water efficiency alternative. The District's General Manager shall have the sole decision of determining whether Applicant has demonstrated an "at least as effective as" water efficiency alternative.



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010
Foundation Best Management Practices for Urban Water Efficiency

Agency: **North Marin Water District** District Name: **North Marin Water District** CUWCC Unit #: **6274**

Retail

Primary Contact: **Ryan Griso** Telephone: **(415) 897-4133 ext** Email: **ryan@nmwd.com**

Compliance Option Chosen By Reporting Agency:
 (Traditional, Flex Track or GPCD)

GPCD if used:

GPCD in 2010	124
GPCD Target for 2018	143

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	168	100%	175
2012	2	92.8%	162	96%	168
2014	3	89.2%	156	93%	162
2016	4	85.6%	149	89%	156
2018	5	82.0%	143	82%	143

Not on Track if 2010 GPCD is ≥ than target

GPCD in 2010 **124**
 Highest Acceptable GPCD for 2010 **175**

On Track

Agency: North Marin Water District
Retail

District Name: North Marin Water District

CUWCC Unit #: 6274



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

Foundational BMPs

BMP 1.1 Operational Practices

	2009	2010	Conservation Coordinator provided with necessary resources to implement BMPs?
1. Conservation Coordinator provided with necessary resources to implement BMPs?	Name: Ryan Grisso Title: Water Conservation Coordinator Email: [Redacted] On Track	Name: Ryan Grisso Title: Water Conservation Coordinator Email: ryan@nmwd.com On Track	
2. Water waste prevention documentation			
Descriptive File	Regulation 15	[Redacted]	
Descriptive File 2010	[Redacted]	[Redacted]	On Track if any one of the 6 ordinance actions done, plus documentation or links provided
URL	NMWD enforces a Water Waste Prevention Regulation	[Redacted]	
URL 2010	[Redacted]	http://www.nmwd.com/regulations/Reg15.pdf	
Describe Ordinance Terms	NMWD enforces a Water Waste Prevention Regulation	[Redacted]	
Describe Ordinance Terms 2010	[Redacted]	[Redacted]	0
	On Track	On Track	



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

BMP 1.2 Water Loss Control

	2009	
Complete a prescreening Audit	yes	On Track
Metered Sales	9,801	
Ventilable Other Uses	13	
Total Supply	9,576	
(Metered Sales + System uses) / Total Supply >0.89	1.02	On Track
If ratio is less than 0.9, complete a full scale Audit in 2009?	Yes	On Track
Verify Data with Records on File?	Yes	On Track
Operate a system Leak Detection Program?	Yes	On Track

from water delivers sheet

On Track if Yes

GPCD	143.705
	140.406

On Track if =>.89

On Track if Yes

On Track if Yes

On Track if Yes

Note: North Marin WD believes the reason that their agency sold slightly more water than what is shown as supplied into the system has to do with a timing issue in the meter reading. The meter reading is not synchronized with the supply and storage in the system which can create the discrepancy in sold versus supplied numbers. The other compounding reason, may have to do with an over estimation of back-feeding Russian River water supply from our wholesaler into our Stafford Lake supply. We will continue to review the data to check for errors and will send an updated file with corrected numbers should we find an error.

	2010	
Compile Standard Water Audit using AWWA Software?	Yes	On Track
AWWA file provided to CUWCC?		On Track
AWWA Water Audit Validity Score?	NMWD Water Loss FY10	
Completed Training in AWWA Audit Method?	81	
Completed Training in Component Analysis Process?	no	
Complete Component Analysis?	No	
Repaired all leaks and breaks to the extent cost effective?	Yes	On Track
Locate and repair unreported leaks to the extent cost effective.	Yes	On Track
Maintain a record-keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.		
Provided 7 types of Water Loss Control Info		
Leaks Repaired	Value Real Losses	Value Apparent Losses
136	\$ -	\$ -
Miles Surveyed	Press Reduction	Cost of Interventions
-		\$ 482,000
Water Saved		

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

Agency: **North Marin Water District**
Retail

District Name: **North Marin Water District**

CUWCC Unit #: **6274**



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010
Foundation Best Management Practices for Urban Water Efficiency

1.3 METERING WITH COMMODITY RATES FOR ALL NEW CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS

Exemption or 'At least as Effective As' accepted by CUWCC

Numbered Unmetered Accounts **2008**

Metered Accounts billed by volume of use

Number of CII accounts with Metered Use meters

Conducted a feasibility study to assess merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

Feasibility Study provided to CUWCC?

Completed a written plan, policy or program to test, repair and replace meters

2009
0
Yes
315
No
Yes
Yes

On Track
On Track

On Track
On Track

2010
0
Yes
315
No
No
Yes

On Track
On Track

On Track
On Track

If signed MOU prior to 31 Dec 1997, On Track if all connections metered; if signed after 31 Dec 1997, complete meter installations by 1 July 2012 or within 6 yrs of signing and 20% biannual reduction of unmetered connections.

On Track if no unmetered accounts

Volumetric billing required for all connections on same schedule as metering
Info only

Due in 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

Agency: **North Marin Water District**

District Name: **North Marin Water District**

CUWCC Unit #: **6274**

Retail

Coverage Report Date: **June 9, 2011**

Primary Contact: **Ryan Grisso**

Email: **ryan@nmwd.com**

1.4 Retail Conservation Pricing

Date 2009 data received **June 1, 2011**

On Track if: Increasing Block, Uniform,
Allocation, Standby Service; Not on Track if
otherwise

Metered Water Rate Structure

Date 2010 data received **June 1, 2011**

Customer Class	2009 Rate Type	Conserving Rate?	Customer Class	2010 Rate Type	Conserving Rate?
Single-Family	Increasing Block	Yes	Single-Family	Increasing Block	Yes
Multi-Family	Increasing Block	Yes	Multi-Family	Increasing Block	Yes
Commercial	Increasing Block Seasonal	Yes	Commercial	Increasing Block Seasonal	Yes
Institutional	Increasing Block Seasonal	Yes	Institutional	Increasing Block Seasonal	Yes
Dedicated Irrigation	Increasing Block Seasonal	Yes	Dedicated Irrigation	Increasing Block Seasonal	Yes
On Track			On Track		

Year Volumetric Rates began for Agencies with some Unmetered Accounts

Info only

Agencies with Partially Metered Service Areas: If signed MOU prior to 31 Dec. 1997, implementation starts no later than 1 July 2010. If signed MOU after 31 Dec. 1997, implementation starts no later than 1 July 2013, or within seven years of signing the MOU,

Agency: **North Marin Water District**
Retail

District Name: **North Marin Water District**

CUWCC Unit #: **6274**
Coverage Report Date: **June 9, 2011**



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

Adequacy of Volumetric Rates) for Agencies with No Unmetered Accounts

Customer Class	2009 Rate Type	2009 Volumetric Revenues \$1000s	2010 Rate Type	2010 Volumetric Revenues \$1000s
Single-Family	Increasing Block	\$ 6,533	Single-Family	\$ 6,780
Multi-Family	Increasing Block	\$ 603	Multi-Family	\$ 710
Commercial	Increasing Block Seas	\$ 1,157	Commercial	\$ 1,224
Institutional	Increasing Block Seas	\$ 707	Institutional	\$ 634
Dedicated Irrigation	Increasing Block Seas	\$ 525	Dedicated Irrigation	\$ 529
Select a Customer Type		\$ -		\$ -
Select a Customer Type		\$ -		\$ -
Total Revenue Commodity Charges (V):		\$ 9,525	\$ 9,877	
Total Revenue Fixed Charges (M):		\$ 1,444	\$ 1,794	
Calculate: V / (V + M):		87%	85%	
		On Track	On Track	

Agency Choices for rates:

A) Agencies signing MOU prior to 13 June2007, implementation starts 1 July2007: On Track if $(V / (V + M)) \geq 70\% \times .8 = 56\%$ for 2009 and $70\% \times 0.90 = 63\%$ for 2010; Not on track if $(V / (V + M)) < 70\%$;

B) Use Canadian model. Agencies signing MOU after 13 June2007, implementation starts July 1 of year following signing.

Canadian Water & Wastewater Rate Design Model Used and Provided to CUWCC
If Canadian Model is used, was 1 year or 3 year period applied?

No
On Track

No
On Track

Wastewater Rates
Does Agency Provide Sewer Service?

2009 **No** If 'No', then wastewater rate info not required.

2010 **No**



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

BMP 2. EDUCATION PROGRAMS

BMP 2.1 Public Outreach Actions Implemented and Reported to CUWCC

Does a wholesale agency implement Public Outreach Programs for this unility's benefit?

Yes

Yes

Name of Wholesale Agencies

Sonoma County Water Agency

Sonoma County Water Agency

- 1) Contacts with the public (minimum = 4 times per year)
- 2) Water supplier contacts with media (minimum = 4 times per year, i.e., at least quarterly).
- 3) An actively maintained website that is updated regularly (minimum = 4 times per year, i.e., at least quarterly).
- 4) Description of materials used to meet minimum requirement.
- 5) Annual budget for public outreach program.
- 6) Description of all other outreach programs

	2009	2010
	3	38
	4	16
	Yes	Yes
Website Newsletter articles on conservation Select a public contact Articles or stories resulting from outreach News releases Newspaper contacts Written editorials		Newsletter articles on conservation Website Email Messages Flyers and/or brochures, bill stuffers
	\$ 22,500	\$ 63,000
Description is too large for text area. Data will be stored in the BMP Reporting database when online.		Description is too large for text area. Data will be stored in the BMP Reporting database when online.
See Wholesale Report Sonoma CWA on Track		See Wholesale Report Sonoma CWA on Track

All 6 action types implemented and reported to CUWCC to be 'On Track'



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

2.2 School Education Programs Implemented and Reported to CUWCC

	2009	2010	
Does a wholesale agency implement School Education Programs for this utility's benefit? Name of Wholesale Supplier?	Yes Sonoma County Water Agency implements the School Education Programs for North Marin Water District	Yes Sonoma County Water Agency implements the School Education Programs for North Marin Water District	
1) Curriculum materials developed and/or provided by agency			Yes/ No
2) Materials meet state education framework requirements and are grade-level appropriate?	=		All 5 actions types implemented and reported to CUWCC to be
3) Materials Distributed to K-6? Describe K-6 Materials			Describe materials to meet minimum requirements
Materials distributed to 7-12 students?			Info Only
4) Annual budget for school education program.	\$ -	\$ -	
5) Description of all other water supplier education programs			
	See Wholesale Report Sonoma County Water Agency On Track for School Education Programs	See Wholesale Report Sonoma County Water Agency On Track for School Education Programs	



NORTH MARIN
WATER DISTRICT

MEMORANDUM

To: Department of Water Resources

May 5, 2011

From: Ryan Grisso, North Marin Water District Water Conservation Coordinator

Subject: CUWCC BMP Self Certification/Compliance Documentation

\\Nmwd\svr1\water conservation\Memos to Board\Memos to Management\CUWCC BMP Compliance Documentation.doc

NMWD's 2009/2010 BMP reporting consists of the Foundational BMPs and the GPCD Programmatic Option. NMWD has carefully reviewed each BMP and the coverage requirements, and has self-certified the NMWD Water Conservation Program to be in full compliance with the CUWCC MOU. This memo summarizes the coverage requirements of each of the Foundational BMPs and GPCD Programmatic BMP Option and documents NMWD's compliance. NMWD has attached all of the CUWCC 2008 Baseline Report Sheet (Attachment 1), CUWCC Foundational BMP reporting pages for 2010 (Attachment 2) and Programmatic GPCD Compliance Calculator Report page for 2010 (Attachment 3). NMWD has also attached AB1420 self certification tables (previously submitted in July 2009) and compliance determination letter from Department of Water Resources (Attachment 4).

Foundational BMPs

BMP 1.1.1 (Water Conservation Coordinator) Coverage Requirement: Staff and maintain the position of trained conservation coordinator, or equivalent consulting support, and provide that function with the necessary resources to implement BMPs.

NMWD Compliance Documentation for BMP 1.1.1: NMWD currently employs one Water Conservation Coordinator to implement the Water Conservation Program including the BMPs and Public Outreach Program. The CUWCC Database entry form for BMP 1.1.1 is included in Attachment 2.

BMP 1.1.2 (Water waste prevention) Coverage Requirement:

Water Agency shall do one or more of the following:

- a. Enact and enforce an ordinance or establish terms of service that prohibits water waste.
- b. Enact and enforce an ordinance or establish terms of service for water efficient design in new development.
- c. Support legislation or regulations that prohibit water waste.

- d. Enact an ordinance or establish terms of service to facilitate implementation of water shortage response measures.
- e. Support local ordinances that prohibit water waste.
- f. Support local ordinances that establish permits requirements for water efficient design in new development.

NMWD Compliance Documentation for BMP 1.1.2: NMWD currently enforces District Regulation 15, which includes Section b., prohibiting waste of water with a list of prohibitions and enforcement actions, and Sections e. and f. which enforce strict new development standards for both indoor fixtures/appliances and outdoor landscaping consistent with the State Model Landscape Ordinance. NMWD has submitted Regulation 15 to CUWCC for their records. The CUWCC Database entry form for BMP 1.1.2 is included in Attachment 2.

BMP 1.1.3 (Wholesale Agency Assistance) Coverage Requirement: CUWCC BMP 1.1.3 requires wholesale agency assistance in the following areas: 1) Financial investments and building partnerships; 2) Technical Support; 3) Program Management; 4) Water Shortage Allocation; and 5) Non-signatory reporting.

NMWD Compliance Documentation for BMP 1.1.3: NMWD is not a wholesale agency and is not required to implement this BMP.

BMP 1.2 (Water Loss Control) Coverage Requirement: Agencies are required to compile the standard water audit and balance annually using the AWWA Software and Beginning in the 2nd year of implementation agencies to test source, import, and production meters annually. Agencies shall improve the data accuracy and data completeness of the standard water balance during the first four years of implementation. Agency shall submit the completed AWWA Standard Water Audit and Water Balance worksheets in the BMP 1.2 report form every reporting period.

NMWD Compliance Documentation for BMP 1.2: NMWD has completed the Standard Water Audit and Water Balance Worksheet using the AWWA software and has submitted the worksheets to CUWCC as a part of the BMP reporting for FY 2009/2010. The CUWCC Database entry for BMP 1.2 is included in Attachment 2.

BMP 1.3 (Metering) Coverage Requirement: 100% of existing unmetered accounts to be metered and billed by volume of use within above specified time periods. Service lines dedicated to fire suppression systems are exempt from this requirement.

NMWD Compliance Documentation for BMP 1.3: NMWD currently has 100% of all water services metered. The CUWCC Database entry form for BMP 1.3 is included in Attachment 2.

BMP 1.4 (Retail Conservation Pricing) Coverage Requirement: Agency shall maintain a rate structure that satisfies at least one of the options specified in Section A. NMWD has chosen to use Option One which required volumetric rates to greater than 70% of all revenue.

NMWD Compliance Documentation for BMP 1.4: NMWD currently bills all water service accounts using a tiered rate system for residential accounts and a seasonal rate for non-residential accounts. Total revenue derived from volumetric rates far exceeds the 70% requirement. The CUWCC BMP database form for BMP 1.4 is included in Attachment 2.

BMP 2.1 (Public Information) Coverage Requirement: Agencies shall maintain an active public information program to promote and educate customers about water conservation.

At minimum a public information program shall consist of the following components:

- 1) Contacts with the public (minimum = 4 times per year, i.e., at least quarterly).
- 2) Water supplier contacts with media (minimum = 4 times per year, i.e., at least quarterly).
- 3) An actively maintained website that is updated regularly (minimum = 4 times per year, i.e., at least quarterly).
- 4) Description of materials used to meet minimum requirement.
- 5) Annual budget for public outreach program.
- 6) Description of all other outreach programs

NMWD Compliance Documentation for BMP 2.1: NMWD currently implements a comprehensive public information program fully compliant with BMP 2.1 documented in the BMP reporting sheets. Some of the program highlights include twice yearly newsletter, Facebook page, bill stuffers, outreach event staffing and a regularly updated website. NMWD has regular contact with the media and has provided the yearly budget and actual expenditures in the BMP reporting sheets. The

CUWCC Database entry form for BMP 2.1 is included in Attachment 2.

BMP 2.2 (School Education) Coverage Requirements: Agencies shall maintain an active school education program to educate students in the agency's service area about water conservation and efficient water use. At a minimum a school information program shall consist of the following:

- 1) Curriculum materials developed and/or provided by the agency (including confirmation that materials meet state education framework requirements and are grade-level appropriate).
- 2) Materials distributed to K-6 students. When possible, school education programs will reach grades 7-12 as well.
- 3) Description of materials used to meet minimum requirement.
- 4) Annual budget for school education program.
- 5) Description of all other water supplier education programs.

NMWD Compliance Documentation for BMP 2.2: NMWD has a fully BMP compliant school education program implemented by the Sonoma County Water Agency (wholesaler). The school education program consists of all of the elements, and more, listed in the coverage requirements.

Programmatic BMPs

Programmatic BMP (BMP 3 through 5) Coverage Requirements: The revised CUWCC MOU allows for a GPCD Compliance Option for Programmatic BMPs (BMP 3 through 5). For retail water agencies choosing the GPCD Compliance Option, the retail water agency shall submit the following calculations along with supporting data as part of their first normal biennial report for that period:

- 1) Potable Water GPCD for each year in the baseline period;
- 2) 2018 GPCD Target and five Biennial GPCD Targets; and

A retail water agency shall be considered to be in compliance with the BMPs in any reporting period when it submits the following:

- 1) Complete "Water Supply & Reuse" and "Accounts & Water Use";
- 2) Supporting data necessary to calculate that reporting period's Potable Water GPCD; and
- 3) Calculations showing the reporting period's Potable Water GPCD is less than or equal to that period's Biennial GPCD Target, or Highest Acceptable Bound when the period's Potable Water GPCD has been weather-adjusted.

Compliance will be evaluated in relation to the Compliance Table below and relative progress

toward the goal will be acknowledged in Council Compliance Reports.

Compliance Table

Year	Compliance Report	Target (% Baseline)	Highest Acceptable Bound (% Baseline)
2010	1	96.4	100
2012	2	92.8	96.4
2014	3	89.2	92.8
2016	4	85.6	89.2
2018	5	82	82

NMWD Compliance Documentation for Programmatic BMPs 3 through 5: NMWD has completed and submitted the "Water Supply & Reuse" and "Accounts & Water Use" sheets and has also submitted the CUWCC GPCD Compliance Calculator Report page. NMWD's 2010 goal for compliance is 168 GPCD and NMWD's actual 2010 use is 124 GPCD. The CUWCC GPCD Calculator Report page is included as Attachment 3.

The fields in red are required.

Primary contact:

Agency name: First name:

Reporting unit name (District name): Last name:

Reporting unit number: Email:

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



Base Year Data

[Link to FAQs](#)

Reporting Unit Base Year

What is your reporting period?

Base Year

BMP 1.3 Metering

Number of unmetered accounts in Base Year

BMP 3.1 & BMP 3.2 & BMP 3.3 Residential Programs

Number of Single Family Customers in Base Year

Number of Multi Family Units in Base Year

BMP 3.4 WaterSense Specification (WSS) Toilets

Number of Single Family Housing Units constructed prior to 1992

Number of Multi Family Units prior to 1992

Average number of toilets per single family household

Average number of toilets per multi family household

Five year average resale rate of single family households

Five-year average resale rate of multi family households

Average number of persons per single family household

Average number of persons per multi family household

BMP 4.0 & BMP 5.0 CII & Landscape

Total water use (in Acre Feet) by CII accounts

Number of accounts with dedicated irrigation meters

Number of CII accounts without meters or with Mixed Use Meters

Number of CII accounts

Comments:

The fields in red are required.



Agency name: Primary contact: First name: Last name: Email:

Reporting unit name (District name): Reporting unit number:

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

[Link to FAQs](#)

2010

BMP 1.1 Operations Practices

Comments:

[See the complete MOU:](#) [View MOU](#)

[See the coverage requirements for this BMP:](#)

Conservation Coordinator

Conservation Coordinator Yes No

Contact Information

First Name:

Last Name:

Title:

Phone:

Email:

Note that the contact information may be the same as the primary contact information at the top of the page. If this is your case, excuse the inconvenience but please enter the information again.

Water Waste Prevention

Water Agency shall do one or more of the following:

- a. Enact and enforce an ordinance or establish terms of service that prohibit water waste
- b. Enact and enforce an ordinance or establish terms of service for water efficient design in new development
- c. Support legislation or regulations that prohibit water waste
- d. Enact an ordinance or establish terms of service to facilitate implementation of water shortage response measures
- e. Support local ordinances that prohibit water waste
- f. Support local ordinances that establish permits requirements for water efficient design in new

To document this BMP, provide the following:

- a. A description of, or electronic link to, any ordinances or terms of service
- b. A description of, or electronic link to, any ordinances or requirements adopted by local jurisdictions or regulatory agencies with the water agency's service area.
- c. A description of any water agency efforts to cooperate with other entities in the adoption or enforcement of local requirement
- d. description of agency support positions with respect to adoption of legislation or regulations

You can show your documentation by providing files, links (web addresses), and/or entering a description.

File name(s): Email files to natalie@cuwcc.org

Web address(s) URL: comma-separated list

Enter a description:

The fields in red are required.

Primary contact:

Agency name: North Marin Water District

First name: Ryan

Reporting unit name (District name): North Marin Water District

Last name: Grisso

Reporting unit number: 6274

Email: ryan@nmwd.com

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



[Link to FAQs](#)

2010 BMP 1.2 Water Loss Control

[View MOU](#)

AWWA Water Audit

Agency to complete a Water Audit & Balance Using The AWWA Software Yes No
Email to natalie@cuwcc.org - Worksheets (AWWA Water Audit). Enter the name of the file below:

NMWD Water Loss FY10

Water Audit Validity Score from AWWA spreadsheet

Agency Completed Training In The AWWA Water Audit Method Yes No

Agency Completed Training In The Component Analysis Process Yes No

Completed/Updated the Component Analysis (at least every 4 years)? Yes No

Component Analysis Completed/Updated Date

Water Loss Performance

Agency Repaired All Reported Leaks & Breaks To The Extent Cost Effective Yes No

Recording Keeping Requirements:

Date/Time Leak Reported	Leak Location
Type of Leaking Pipe Segment or Fitting	Leak Running Time From Report to Repair
Leak Volume Estimate	Cost of Repair

Agency Located and Repaired Unreported Leaks to the Extent Cost Effective Yes No

Type of Program Activities Used to Detect Unreported Leaks

Annual Summary Information

Complete the following table with annual summary information (required for reporting years 2-5 only)

Total Leaks Repaired	Economic Value Of Real Loss	Economic Value Of Apparent Loss	Miles Of System Surveyed For Leaks	Pressure Reduction Undertaken for loss reduction	Cost Of Interventions	Water Saved (AF/Year)
136			0		\$462,000.00	

Comments:

The fields in red are required.

Primary contact:

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

Agency name: North Marin Water District

First name: Ryan

Reporting unit name (District name): North Marin Water District

Last name: Grisso

Reporting unit number: 6274

Email: ryan@nmwd.com



BMP 1.3 Metering with Commodity 2010

[Link to FAQs](#)

[See the complete MOU: View MOU](#)

[See the coverage requirements for this BMP:](#)

Implementation

Does your agency have any unmetered service connections? Yes No

If YES, has your agency completed a meter retrofit plan? Yes No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered? Yes No

Are all new service connections being billed volumetrically? Yes No

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters? Yes No

Please Fill Out The Following Matrix

Account Type	# Metered Accounts	# Metered Accounts Read	# Metered Accounts Billed by Volume	Billing Frequency Per Year	# of estimated bills/yr
Single-Family	18,031	18,031	18,031	Bi-monthly	0
Multi-Family	681	681	681	Bi-monthly	0
Commercial	1,078	1,078	1,078	Bi-monthly	0
Institutional	114	114	114	Bi-monthly	0
Dedicated Irrigatic	427	427	427	Bi-monthly	0
Agricultural	1	1	1	Bi-monthly	0
Fire Lines				Bi-monthly	0
Other				Other	
Other				Other	
Other				Other	

Number of CII Accounts with Mixed-use Meters

Number of CII Accounts with Mixed-use Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters? Yes No

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

B. Describe, upload or provide an electronic link to the Feasibility Study Upload File

File name(s): Email files to natalie@cuwcc.org

Web address(s) URL: comma-separated list

Comments:

The fields in red are required.

Agency name: North Marin Water District

Reporting unit name (District name): North Marin Water District

Reporting unit number: 6274

Primary contact:

First name: Ryan

Last name: Grisso

Email: ryan@nmwd.com

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



2010

BMP 1.4 Retail Conservation Pricing

[Link to FAQs](#)

[View MOU](#)

If you are reporting more rate structures than this form allows, add the structures to a spreadsheet and send the file to natalie@cuwcc.org.

Implementation (Water Rate Structure)

Enter the Water Rate Structures that are assigned to the majority of your customers, by customer class

Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Increasing Block	Single-Family	6,780,403.00		1,470,832.00
Increasing Block	Multi-Family	709,949.00		88,033.00
Increasing Block Se	Commercial	1,223,683.00		136,142.00
Increasing Block Se	Institutional	633,876.00		51,079.00
Increasing Block Se	Dedicated Irrigation	528,680.00		47,756.00
Increasing Block Se	Select a Customer Tv			
Increasing Block Se	Select a Customer Tv			

Implementation Option (Conservation Pricing Option)

- Use Annual Revenue As Reported
- Use Canadian Water & Wastewater Association Rate Design Model

If CWWA is select, enter the file name and email the spreadsheet to natalie@cuwcc.org

Retail Waste Water (Sewer) Rate Structure by Customer Class

Agency Provide Sewer Service Yes No

Select the Retail Waste Water(Sewer) Rate Structure assigned to the majority of your customers within a specific customer class.

Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			

Comments:

The fields in red are required.

Primary contact:

Agency name: First name:
 Reporting unit name (District name): Last name:
 Reporting unit number: Email:

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.



[Link to FAQs](#)

[View MOU](#)

2010

BMP 2.1 Public Outreach - Retail Reporting

Is a Wholesale Agency Performing Public Outreach?

Are there one or more wholesale agencies performing public outreach which can be counted to help your agency comply with the BMP?

Yes No

Enter the name(s) of the wholesale agency (comma delimited)

Is your agency performing public outreach?

Report a minimum of 4 water conservation related contacts your agency had with the public during the year.

Public Information Programs List

Did at least one contact take place during each quarter of the reporting year?

Number of Public Contacts	Public Information Programs
3	Newsletter articles on conservation
20	Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets
25	Website
15	Email Messages
	Select a public contact

Contact with the Media

Are there one or more wholesale agencies performing media outreach which can be counted to help your agency comply with the BMP?

Yes No

Enter the name(s) of the wholesale agency (comma delimited)

OR Retail Agency (Contacts with the Media)

Did at least one contact take place during each quarter of the reporting year?

Media Contacts List

Number of Media Contacts	Did at least one contact take place during each quarter of the reporting year?	Media Contact Types
3		Articles or stories resulting from outreach
5		News releases
1		Written editorials
7		Newspaper contacts
		Select a type of media contact
		Select a type of media contact

Is a Wholesale Agency Performing Website Updates?

Did one or more CUWCC wholesale agencies agree to assume your agency's responsibility for meeting the requirements of and for CUWCC reporting of this BMP? Yes No

Enter the name(s) of the wholesale agency (comma delimited)

Is Your Agency Performing Website Updates?

Enter your agency's URL (website address):

Describe a minimum of four water conservation related updates to your agency's website that took place during the year:

- 1) Information was added for the Emergency Conservation Ordinance
- 2) Information was updated for the High Efficiency Toilet Rebate Program
- 3) Information was updated for the Cash for Grass Program
- 4) Information was updated for the High Efficiency Washer Rebate Program
- 5) Information was added for the Demand Offset Program (Rainwater/Greywater rebate)

Did at least one Website Update take place during each quarter of the reporting year? Yes No

Public Outreach Annual Budget

Enter budget for public outreach programs. You may enter total budget in a single line or brake the budget into discrete categories by entering many rows. Please indicate if personnel costs are included in the entry.

Category	Amount	Personnel Costs Included? <small>If yes, check the box.</small>	Comments
Newsletters	\$32,000	<input type="checkbox"/>	
Marketing	\$25,000	<input checked="" type="checkbox"/>	
Public Outreach	\$6,000	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Comments:

The fields in red are required.



Agency name: Primary contact:
 Reporting unit name (District name): First name:
 Last name:
 Reporting unit number: Email:

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.

[Link to FAQs](#)

2010

BMP 2.1 Public Outreach Cont'd

[View MOU](#)

Public Outreach Expenses

Enter expenses for public outreach programs. Please include the same kind of expenses you included in the question related to your budget (Section 2.1.7, above). For example, if you included personnel costs in the budget entered above, be sure to include them here as well.

Expense Category	Expense Amount	Personnel Costs Included?
Newsletters	\$16,547	<input type="checkbox"/> If yes, check the check box.
Marketing	\$5,174	<input checked="" type="checkbox"/>
Public Outreach	\$4,827	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Additional Public Information Program

Please report additional public information contacts. List these additional contacts in order of how your agency views their importance / effectiveness with respect to conserving water, with the most important/ effective listed first (where 1 = most important).

Were there additional Public Outreach efforts?

Yes No

Public Outreach Additional Information

Public Information Programs	Importance

Social Marketing Programs

Branding

Does your agency have a water conservation "brand," "theme" or mascot? Yes No

Describe the brand, theme or mascot.

Market Research

Have you sponsored or participated in market research to refine your message? Yes No

Market Research Topic

How to get more participation in the outdoor water use efficiency programs. Focused groups were utilized for customers in different water use levels.

Brand Message

Water Smart

Brand Mission Statement

Community Committees

Do you have a community conservation committee?

Yes No

Enter the names of the community committees:

[Empty text box for community committee names]

Training

Training Type	# of Trainings	# of Attendees	Description of Other

Social Marketing Expenditures

Public Outreach Social Marketing Expenses

Expense Category	Expense Amount	Description
Marketing	\$500	Facebook Advertising

Partnering Programs - Partners

Name

Type of Program

CLCA?

Green Building Programs?

with City of Novato Building Department

Master Gardeners?

Cooperative Extension?

Local Colleges?

Water Management Technology Education Center (w/College of Marin)

Other

Retail and wholesale outlet; name(s) and type(s) of programs:

[Empty text box for retail and wholesale outlet details]

Partnering Programs - Newsletters

Number of newsletters per year

[Empty text box for number of newsletters per year]

Number of customers per year

Partnering with Other Utilities

Describe other utilities your agency partners with, including electrical utilities

NMWD partners with Sonoma County Water Agency (SCWA) and the other 8 retail water utilities provided water by SCWA, through the Sonoma Marin Saving Water Partnership. NMWD also partners with Marin Municipal Water District on a variety of programs.

Conservation Gardens

Describe water conservation gardens at your agency or other high traffic areas or new

NMWD maintains a demonstration garden at the main office building, which includes a nice mix of Ca Native plants and other low water use and drought tolerant plantings. NMWD also has a partner non-pyrophytic/low water use demo garden with Novato Fire District.

Landscape contests or awards

Describe water wise landscape contest or awards program conducted by your agency

NMWD sponsors a yearly award at the Marin County Fair for best low water use landscape.

Comments:

The fields in red are required.

Primary contact:

Agency name: North Marin Water District

First name: Ryan

Reporting unit name (District name): North Marin Water District

Last name: Grisso

Reporting unit number: 6274

Email: ryan@nmwd.com

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.



[Link to FAQs](#)

[View MOU](#)

2010

BMP 2.2 School Education Programs, Retail Agencies School Programs

Is your agency implementing school programs which can be counted to help another agency comply with this BMP?

Yes No

Enter Wholesaler Names, separated by commas:

Sonoma County Water Agency

Materials meet state education framework requirements?

Description of Materials

Materials distributed to K-6 Students?

Description of materials distributed to K-6 Students

Number of students reached

Materials distributed to 7-12 Students?

Description of materials distributed to 7-12 Students

Number of Distribution

Annual budget for school education program

Description of all other water supplier education programs

School Program Activities

Classroom presentations:

Number of presentations

Number of attendees

Large group assemblies:

Number of presentations

Number of attendees

Children's water festivals or other events:

Number of presentations

Number of attendees

Cooperative efforts with existing science/water education programs (various workshops, science fair awards or judging) and follow-up:

Number of presentations

Number of attendees

Other methods of disseminating information (i.e. themed age-appropriate classroom loaner kits):

Description

Number distributed

Staffing children's booths at events & festivals:

Number of booths

Number of attendees

Water conservation contests such as poster and photo:

Description

Number distributed

Offer monetary awards/funding or scholarships to students:

Number Offered

Total Funding

Teacher training workshops:

Number of presentations

Number of attendees

Fund and/or staff student field trips to treatment facilities, recycling facilities, water conservation gardens, etc.:

Number of tours or field trips

Number of participants

College internships in water conservation offered:

Number of internships

Total funding

Career fairs/workshops:

Number of presentations

Number of attendees

Additional program(s) supported by agency but not mentioned above:

Description

Number of events (if applicable)

Number of participants

Total reporting period budget expenditures for school education programs (include all agency costs):

Comments

Sonoma County Water Agency implements the School Education Programs for North Marin Water District and program specif





TARGETS / COMPLIANCE (CUWCC MOU)

Baseline / Initial GPCD
(Use option buttons to select)

GPCD in 2006 158.5
 Baseline GPCD (1997 to 2006) 174.6

GPCD in 2010 123.7
 GPCD Target for 2018 143.1

Potable Water GPCD for each Year in the
Baseline Period

Year	GPCD
2006	158.5
2005	151.3
2004	180.2
2003	169.3
2002	177.6
2001	193.5
2000	184.9
1999	178.3
1998	163.5
1997	188.4

Biennial GPCD Compliance Table

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	168.3	100%	174.6
2012	2	92.8%	162.0	96.4%	168.3
2014	3	89.2%	155.7	92.8%	162.0
2016	4	85.6%	149.4	89.2%	155.7
2018	5	82.0%	143.1	82.0%	143.1

Monthly GPCD Data for Weather Normalization

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2010	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
Baseline avg*	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6	174.6

* The average for each month is based on the baseline period 1997 to 2006

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



July 14, 2009

Mr. Chris DeGabriele
General Manager
North Marin Water District
999 Rush Creek Place
Novato, California 94948

Dear Mr. DeGabriele:

The Department of Water Resources (DWR) has reviewed the North Marin Water District's (NMWD) Self-Certification Statement Tables 1 and 2 submitted on July 9, 2009 regarding implementation of the Urban Best Management Practices (BMPs).

The purpose of DWR's review is to determine eligibility of NMWD to receive water management grant or loan funds. DWR has followed the Compliance with AB 1420 Requirements dated June 1, 2009. For detailed information, please visit www.owue.water.ca.gov/finance/index.cfm.

Based on DWR's review of the information in Tables 1 and 2, NMWD has and is currently implementing the BMPs consistent with AB 1420 and, therefore, is eligible to receive water management grant or loan funds.

DWR reserves the right to request additional information and documentation, including reports from NMWD to substantiate the accuracy of the information provided in Tables 1 and 2. DWR may reverse or modify its eligibility determination and notify you and the funding agency if inaccuracies are found in the supporting documentation or in Tables 1 and 2.

If you have any questions, please contact me at (916) 651-9666 or Chriss Fakunding at (916) 651-0673.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Davidoff".

Baryohay Davidoff, Chief
Agricultural Water Management Planning
and Financial Assistance

AB 1420 Certification Statement Table 1

Note: Table 1 documents Status of Past and Current BMP implementation.

Self-Certification Statement: The Urban Water Supplier and its authorized representative certifies, under penalty of perjury, that all information and claims, stated in this table, regarding compliance and implementation of the BMPs, including alternative conservation approaches, are true and accurate. This signed AB 1420 Self-Certification Statement Table 1, and Table 2 and in any supporting documents substantiating such claims may, at the discretion of the funding agency, result in loss of all State funds to the applicant. Additionally, the Funding Agency, in its sole discretion, may halt disbursement of grant or loan funds, not pay pending invoices, and/or pursue any other applicable legal remedy and refer the matter to the Attorney General's Office.

Name of Signatory Chris DeGabriele Title of Signatory General Manager Signature of signatory Chris DeGabriele Date 5/20/2010

Application Date: 5/19/2010

Proposal Identification Number: CUWCC Member? Yes/No Yes

Has Urban Water Supplier submitted a 2005 Urban Water Management Plan? Yes/No Yes Is the UWM Plan Deemed Complete by DWR? Yes/No Yes

Applicant Name: North Marin Water District

Project Title: NMWD Recycled Water Project Phase 2, North Service Area

Applicant's Contact Information: Name: Chris DeGabriele Phone: (415)-897-4133 E-mail: c.degabriele@nmwd.com

Participants:

Retailer (List Below)	Wholesaler (List Below)
	<u>Sonoma County Water Agency</u>

C1 C2 C3 C4 C5 *C6 C7 **C8 **C9 **C10 C11 C12 C13 C14 C15 C16 C17 C18

BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	BMPs	BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)		BMP Is Exempt (2)			BMP Implementation Requirements Met							
			Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Support Documents have been Submitted Yes/No		
	✓	BMP 1 Water Survey for Single/Multi-Family Residential Customers	Yes			x									Yes		12/29/2008	
	✓	BMP 2 Residential Plumbing Retrofit	Yes			x									Yes		12/29/2008	
✓	✓	BMP 3 System Water Audits, Leak Detection	Yes			x									Yes		12/29/2008	
✓	✓	BMP 3 Leak Repairs	Yes			x									Yes		12/29/2008	
	✓	BMP 4 Metering with Commodity Rates for All New connections	Yes			x									Yes		12/29/2008	
	✓	BMP 4 Retrofit of Existing Connections	Yes			x									Yes		12/29/2008	

BMPs required for Wholesale Supplier	BMPs required for Retail Supplier	BMPs	BMP Implemented by Retailers and/or Wholesalers / BMP			Compliance Options/Alternative Conservation Approaches (1)			BMP Is Exempt (2)			BMP Implementation Requirements Met						
			Retailer Yes/No	Wholesaler Yes/No	Regional Yes/No	BMP Checklist	Flex Track	Gallons Per Capita Per Day GPCD	Not Cost Effective	Lack of Funding	Lack of Legal Authority	CUWCC MOU Requirement Met: Retailer Yes/No	CUWCC MOU Requirement Met: Wholesaler Yes/No	Date of BMP Report Submitted to CUWCC for (2007-2008) (MOU Signatories)	Date BMP Implementation Data Submitted to DWR in CUWCC Format (Non MOU Signatories) (3)	All Supporting Documents have been Submitted Yes/No		
	✓	BMP 5 Large Landscape Conservation Programs and Incentives	Yes			x								Yes		12/29/2008		
	✓	BMP 6 High-Efficiency Washing Machine Rebate Programs	Yes			x								Yes		12/29/2008		
✓	✓	BMP 7 Public Information	Yes			x								Yes		12/29/2008		
✓	✓	BMP 8 School Education	Yes		Yes	x								Yes		12/29/2008		
	✓	BMP 9 Conservation programs for Commercial, Industrial, and Institutional (CII) Accounts	Yes			x								Yes		12/29/2008		
✓		BMP 10 Wholesale Agency Assistance Programs																
	✓	BMP 11 Conservation Pricing	Yes			x								Yes		12/29/2008		
✓	✓	BMP 12 Conservation Coordinator	Yes			x								Yes		12/29/2008		
	✓	BMP 13 Water Waste Prohibitions	Yes			x								Yes		12/29/2008		
	✓	BMP 14 Residential ULFT Replacement Programs	Yes			x								Yes		12/29/2008		

*C6: Wholesaler may also be a retailer (supplying water to end water users)

**C8, **C9, **, and C10: Agencies choosing an alternative conservation approach are responsible for achieving water savings equal or greater than that which they would have achieved using only BMP list.

(1) For details, please see: <http://www.cuwcc.org/mou/exhibit-1-bmp-definitions-schedules-requirements.aspx>.

(2) BMP is exempt based on cost-effectiveness, lack of funding, and lack of legal authority criteria as detailed in the CUWCC MOU

(3) Non MOU signatories must submit to DWR reports and supporting documents in the same format as CUWCC.