

MEMORANDUM

To:

Kim Rosmaier
CA Dept of Water Resources
Central District
901 P Street, 3rd Floor
Sacramento, CA 95814

Date:

March 27, 2008

From:

Kevin O'Connell, GM
North Coast County Water District
2400 Francisco Boulevard
Pacifica, CA 94044

Subject:

North Coast County Water District
2005 Urban Water Management Plan
Amendments

This Memorandum presents the additions and amendments we have made to our 2005 Urban Water Management Plan, in response to your agency's review comments that are summarized in your Memo of October 25, 2006. To facilitate your review, we have organized our responses to follow the order of your review comments.

Comment 1: WC 10631(e)(1)(2) RT12 Projections of water use by sector is required. Also, projection of number of connections by sector is requested.

Response 1: See that attached Table 9, Revised. This Table has been expanded to show our best estimates of future water demand in the coming five 5-year planning periods. Our projected production requirements remain unchanged and the divisions by sector are generally proportional to our experience over the past 5 years. The revised Table also includes projections of the numbers of connections. These projections were derived from the analysis and conclusions found on page 23 of the UWMP.

Comment 2: WC 106321(e)(1)(2) RT14 Please provide projection of any other water use, specifically unaccounted-for water.

Response 2: Revised Table 9, attached, has been modified to include projections for unmetered and unaccounted-for water, equivalent to the difference between water sales

implementation of commercial water audits, which is the core of DMM 9, would have a benefit – cost ratio of 0.8. The cost effectiveness of implementing this measure is summarized in the table below:

TABLE 1: COST EFFECTIVENESS OF CII SURVEYS	
Total Costs (first 5 years)	\$59,347
Total Benefits	(\$21,932)
Water Savings	0.003 mgd (3.36 AFY)
Cost of Savings per unit volume (\$/MG)	\$2,517
Benefit Cost Ratio	0.8
Source: SFPUC, <i>Final Results of Conservation Measures Evaluation</i> , Appendix D20 (NCCWD), 8/4/04	

As indicated in the UWMP (page 46) all customers (including CII customers) are eligible for our toilet rebate programs. Furthermore, we offer low flow spray rinse nozzles to restaurants and commercial kitchens, as we believe that this program has a strongly positive benefit-cost ratio.

Comment 4: WC10632(g) RT 29 Does NCCWD have reserves available to overcome revenue and expenditure impacts?

Response 4: Yes. The District has approximately \$8 million in reserves available. Funds from reserves could be applied to on-going operations in the event of reduced revenues during a water shortage. In the event of a severe dry year or multiple dry years, the Board could review , and raise rates to compensate for revenue shortfalls or to pay for increased wholesale costs and conservation initiatives.

Comment 5: WC10632(h) EL468 Does NCCWD have a draft water shortage contingency ordinance or resolution available to enact in time of supply shortage? If yes, please provide a copy.

Response 5: The District has experience in the implementation of programs very similar to the Stage One through Stage 3 Programs described in Chapter VII, *Water Shortage Contingency Plan*. As indicated, the ordinances used to implement these programs would serve as the models, or drafts, of future ordinances implementing any water rationing programs. A copy of Ordinance 53 is attached.

Comment 6: WC10633(a) RT33 Please provide wastewater past, current, and projected wastewater volumes collected and treated in NCCWD's service area and the volumes that meet recycled standard.

Response 6:

Comment 7: WC10633(a) RT34 Please provide current and projected volumes and methods of disposal of non-recycled wastewater.

Response 7:

Comment 8: WC10633(b-e) RT35,36 Please provide current and projected volumes and uses of recycled water.

Response 8: This is described in the UWMP on pps. 53- 54 and summarized in the following table:

TABLE 2: CURRENT AND PROJECTED VOLUMES AND USES OF RECYCLED WATER			
Time Period	Total Amount	Deliveries to NCCWD Customers	Type of Use
Current (2005)	Up to 4 mgd	0	Wetland Restoration
2010	120 AFY	0	Sharp Park Golf Course
2015	172.5 AFY	52.5	Sharp Park Golf Course, Highway Landscaping, School Playing Fields
2015-2030	172.5 AFY	52.5	Same

Comment 9: WC10633(e) RT37 Please provide volumes of projected and actual recycled water use as identified in the 2000 urban water management plan. If none projected, please indicate such.

Response 9: WC10633(f) RT38 Please describe actions to be taken to encourage recycled water use, specifically any financial incentives. Please provide projected

results of these actions. The City of Pacifica's Calera Creek Water Recycling plant was opened in 2000, and the 2000 UWMP noted that its effluent was to be discharged to support an adjacent wetland, pending the development of distribution systems to support other uses. The feasibility studies for distribution to potential users were underway at that time, and Sharp Park Golf Course was the first priority. The golf course is irrigated with SFWD water and is not a NCCWD customer. The potential users and volumes of use shown in Table 2, above, were still being determined when the 2000 UWMP was prepared.

Comment 10: WC10633(f) RT38 Please describe actions to be taken to encourage recycled water use, specifically any financial incentives. Please provide projected results of these actions.

Response10: The North Coast County Water District has no jurisdiction over wastewater collection or distribution, and currently no sources of recycled wastewater are available to any of the District's customers. The District fully supports the City of Pacifica's efforts to find feasible uses for the recycled water that is available.

Comment 11: WC10633(g) EL579 Does NCCWD have a recycled optimization plan? If yes, please describe.

Response11: No

Comment 12: WC10642 EL751-753 Did NCCWD have the plan available for public inspection and where? Did NCCWD have a public hearing, if so when? Was the meeting information provided to local governments?

Response12: No, but the District has worked with the City of Pacifica in the development of their Recycled Water Feasibility Planning effort, which the District believes is the equivalent of a recycled optimization plan.

Comment 13: WC10643 EL756-758 Did NCCWD review its implementation plan and schedule identified in its 2000 UWMP? Was the plan implemented as scheduled?

Response13: Yes, the District's past efforts with respect to the individual DMMs are

noted in the introductory paragraphs for DMMs 1 – 9, 13 and 14. (DMM 10 is not applicable, and DMMs 11 (conservation pricing) and 12 (conservation coordinator) are ongoing. Indeed, implementation of many of the other DMMs were classified as ongoing in the 2000 UWMP, and in some cases the past efforts extend as far back as 1985, or earlier.

Between 2000 and 2005, the District's primary focus was on DMM 1(SF and MF Residential Water Survey programs), DMM 6 (High Efficiency Washing Machine Rebates), and DMM 14 (ULFT replacements).

Comment 14: Please provide quantification of NCCWD's DMM activities. If quantification not available, please provide an explanation. If NCCWD so chooses, it can provide copies of its 2003 and 2004 BMP reports filed with the CUWCC. This will eliminate the need to provide quantification.

Response14: The 2003 and 2004 BMP reports are provided as Attachment 3.

Comment 15: DMM 9 requires a Benefit/Cost analysis as highlighted on the DMM review sheet.

Response15: See Table 1 above. As noted, the District has utilized the analyses provided by the SFPUC in its *Wholesale Customer Water Conservation Potential* study.

**ATTACHMENT 1:
TABLE 9, REVISED**

TABLE 9 (Revised)						
PROJECTED GROWTH IN CONNECTIONS AND WATER DEMAND						
5-Year Increments, 2005 – 2030 ^a						
	2005	2010	2015	2020	2025	2030
PROJECTED CONNECTIONS BY SECTOR ^b						
Residential Sector	11,257	11,457	11,657	11,857	12,057	12,357
Commercial Sector	317	332	347	362	327	392
Industrial Sector	0	0	0	0	0	0
Public Authorities	108	111	114	117	120	123
Irrigation	64	66	68	70	72	74
PROJECTED WATER DEMAND BY SECTOR (AFY)						
Residential Sector	2,816	3,044	3,120	3,162	3,205	3,239
Commercial Sector	275	296	303	308	312	315
Industrial Sector	0	0	0	0	0	0
Public Authorities	234	251	258	262	265	268
Irrigation	64	68	70	71	72	72
Unmetered & Unaccounted-for water	315	339	349	353	358	362
Projected Production Requirement (AFY)	3,704 ^b	3,988	4,100	4,156	4,212	4,256
Net Production Requirement (mgd)	3.31 mgd ^c	3.56 mgd	3.66 mgd	3.71mgd	3.76 mgd	3.80 mgd
^a Source: SFPUC, <i>SFPUC Purchases: North Coast County Water District</i> , June 1, 2005						
^b Note: All connections are metered. The District has no unmetered customer connections.						
^c The 2005 data is a projection based on 10 months of data plus estimated values for the final two months.						

**ATTACHMENT 2:
SAMPLE ORDINANCE**

**ATTACHMENT 3:
2003 AND 2004 BMP REPORTS**