

**NORTH MARIN
WATER DISTRICT**

**NORTH MARIN WATER DISTRICT
AGENDA - REGULAR MEETING
August 16, 2011 – 7:30 p.m.
District Headquarters
999 Rush Creek Place
Novato, California**

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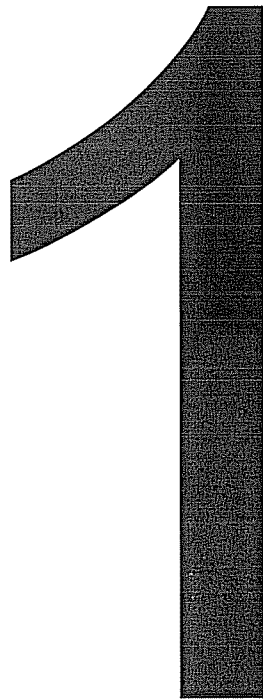
Est. Time	Item	Subject
7:30 p.m.	CALL TO ORDER	
	1.	APPROVE MINUTES FROM REGULAR MEETING , August 2, 2011
	2.	GENERAL MANAGER'S REPORT
	3.	OPEN TIME: (Please observe a three-minute time limit) This section of the agenda is provided so that the public may express comments on any issues not listed on the agenda that are of interest to the public and within the jurisdiction of the North Marin Water District. When comments are made about matters not on the agenda, Board members can ask questions for clarification, respond to statements or questions from members of the public, refer a matter to staff, or direct staff to place a matter of business on a future agenda. The public may also express comments on agenda items at the time of Board consideration.
	4.	STAFF/DIRECTORS REPORTS
	5.	MONTHLY PROGRESS REPORT w/Bacteriological Quality Monitoring Report
		CONSENT CALENDAR The General Manager has reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person.
	6.	Consent – Approve ACWA Region 1 Board Election
	7.	Consent – Approve Out-of-State Travel for Stacie Goodpaster
8:00 p.m.	INFORMATION ITEMS	
	8.	Fiscal Year Improvement Projects - Year End Report – Engineering Department
	9.	FY 11 Operations/Maintenance -Year End Report
	10.	Fourth Quarter FY 10/11 Report – Water Quality
	11.	MISCELLANEOUS Disbursements Letter Re Local Coastal Program Amendments SCWA Water supply public tours scheduled Photo of NFPD Board and NMWD employee Mike Baccei Press Release – NMWD awarded GFOA award

All times are approximate and for reference only.

The Board of Directors may consider an item at a different time than set forth herein.

(Continued)

Est. Time	Item	Subject
		<u>News Articles:</u> Commission hears reports on block water and pikeminnow programs at Potter Valley Project Novato students learn algebra on the job Sonoma County's electricity-from-ocean-waves project canceled River estuary report set for final approval
	12.	CLOSED SESSION: Conference with Legal Counsel – Pending Litigation Pursuant to Subdivision (a) of Government Code Section 54956.9 – (Wayne vs NMWD) CLOSED SESSION: In accordance with Government Code Section 54957.6; Conference with Labor Negotiators; District's Designated Representatives – Chris DeGabriele and David Bentley; Employee Organization – North Marin Water District Employee Association CLOSED SESSION: In accordance with California Government Code Section 54957 for Public Employee Performance Evaluation (One), Title: General Manager.
9:30 p.m.	13.	ADJOURNMENT



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DRAFT
NORTH MARIN WATER DISTRICT
MINUTES OF REGULAR MEETING
OF THE BOARD OF DIRECTORS
August 2, 2011

6 **CALL TO ORDER**

7 President Schoonover called the regular meeting of the Board of Directors of North Marin
8 Water District to order at 7:30 p.m. at the District headquarters and the agenda was accepted as
9 presented. Present were Directors Jack Baker, Rick Fraiters and Dennis Rodoni. Also present were
10 General Manager Chris DeGabriele, Secretary Renee Roberts, Auditor-Controller David Bentley and
11 Chief Engineer Drew McIntyre. Director Petterle was absent.

12 District employees Robert Clark (Operations/Maintenance Superintendent) and Doug Moore
13 (Construction/Maintenance Superintendent) were in the audience.

14 **MINUTES**

15 On motion of Director Rodoni and seconded by Director Fraiters, the Board approved the
16 minutes from the previous meeting as amended by the following vote:

17 AYES: Directors Baker, Fraiters, Rodoni, Schoonover

18 NOES: None

19 ABSENT: Director Petterle

20 ABSTAIN: None

21 **GENERAL MANAGER'S REPORT**

22 Mr. DeGabriele reported that the Novato Fire Protection District will recognize Mike Baccei
23 for his heroic efforts during a dog attack last December. He said the presentation will occur at the
24 Fire District's Board of Directors meeting, Wednesday, August 3, 2011 at the Fire District's Station
25 House on Redwood Boulevard.

26 **OPEN TIME**

27 President Schoonover asked if anyone in the audience wished to bring up an item not on the
28 agenda and there were no comments.

29 **STAFF / DIRECTORS' REPORTS**

30 President Schoonover asked if staff or Directors wished to bring up an item not on the
31 agenda and the following items were discussed:

1 Stolen Hydrant Meters

2 David Bentley informed the Board that two hydrant meters located near the base of Ammo
3 Hill were stolen on Friday morning; one was a floating meter and the other was a fixed meter and
4 both were chained and padlocked to the hydrants. He said the meters were worth about \$1,000
5 each and a police report has been filed. Drew McIntyre added that the District will incur the cost of
6 the stolen fixed meter; however, the contractor will be billed for the floating meter. He stated that
7 fixed meters will no longer be put on the hydrants in that area.

8 Director Out of Town

9 Director Baker advised that he will be unable to attend the first Board meeting in October as
10 he will be out of town.

11 **PRELIMINARY FY11 FINANCIAL STATEMENT**

12 Mr. Bentley presented the Preliminary FY11 Financial Statement. He said that overall, last
13 year's performance was good, costs were kept under control, but budgeting did not foresee the drop
14 in development and low water sales. He said that looking at all combined operations, the budgeted
15 deficit was \$885,000 and the actual FY deficit was \$1.8M primarily due to connection fees not
16 collected as estimated and water sales volume, budgeted at 3.1BG, came in at 2.8BG. Mr. Bentley
17 said that in comparison, this fiscal year 20 dwelling units are budgeted and that the Warner Creek
18 Senior Housing with 61 apartments and 27 dwelling units will enable the District to meet and
19 surpass its connection fee goal. He advised that last year's cash balance decreased more than
20 anticipated - \$2.1M. Mr. Bentley reported on each District individually.

21 Mr. Bentley advised that for Novato Water operating expenses were up 2% for the year, the
22 reason being the 7% water cost increase from the SCWA. He said that 884MG were produced from
23 Stafford Treatment Plant, the second highest ever; and as a consequence, the cost of production at
24 Stafford fell 18% from the prior year. Mr. Bentley stated that 46% of the Improvement Projects
25 Budget was expended. He said that staff had budgeted \$2.4M of District funds for the Solar Power
26 Project but a Power Purchase Agreement has been executed so no District funds will be expended
27 for that project. He reported that the cash balance for Novato Water at the end of June stood at
28 \$4M.

29 Mr. Bentley stated that Recycled Water operating expenses were down 18% and cost of
30 production is \$6,780/MG (three times the cost of SCWA water), but was down 5% from the previous
31 year. Annual sales to StoneTree remained flat at 55MG. He advised that the Recycled Water

1 System received \$1.2M from Novato Water to fund the expansion project and ended the year with a
2 \$33,000 cash balance.

3 Mr. Bentley reported that for West Marin Water, water consumption remains static at 74MG
4 and expenses were also unchanged from the previous year. He said that 54% of the Improvement
5 Projects Budget was expended; two projects were deferred so that the Point Reyes Treatment Plant
6 Solids Handling Project could move forward. He advised that West Marin Water paid back Novato
7 Water \$63,000, reducing their debt to \$356,000; however, it is anticipated that \$125,000 will be
8 borrowed from Novato to cover costs for the Solids Handling Project.

9 Mr. Bentley informed the Board that Oceana Marin gained two more customers for a total of
10 227 and the operating expense increased 4%; 17% of the Improvement Projects Budget was
11 expended. He stated that the big project is the cross-country sewer line replacement which was not
12 completed last year as planned (it is budgeted for this year) and as a consequence there is a cash
13 balance of \$315,000.

14 Mr. Bentley said that the Board will hear a report on the final FY 2011 Financial Statement
15 after the audit in October.

16 **CONSENT CALENDAR**

17 On the motion of Director Fraites, seconded by Director Rodoni and carried by those
18 Directors present, the following item was approved on the consent calendar:

19 **LAIF SIGNATORIES UPDATE**

20 The State Treasurer's Office advised that the Local Agency Investment Fund (LAIF)
21 Authorizing Resolution to authorize District Officers to transact business with LAIF has been revised.
22 This resolution is required by LAIF prior to allowing the transfer of funds to and from U.S. Bank. The
23 Board approved Resolution No. 11-22 entitled, "Resolution of the Board of Directors of North Marin
24 Water District Authorizing Investment of Monies in the Local Agency Investment Fund."

25 **ACTION CALENDAR**

26 **LOCAL COASTAL PROGRAM AMENDMENT**

27 Mr. DeGabriele presented a comment letter on the Local Coastal Program (LCP)
28 Amendments for the Board's approval. He said that the LCP update is addressed in two
29 documents, the Local Coastal Program Draft Policy Amendment and the Proposed Development
30 Code Amendments. He said that there are a couple of items of concern to the District and are
31 reflected in the comment letter.

1 Mr. DeGabriele stated that the current LCP requires that new development within a village
2 connect to a sewer main if the sewer main is within 400 feet. He advised that this has not been
3 updated in the amendments, and his letter states that this requirement is of concern to the District.
4 Mr. DeGabriele said that in Oceana Marin there are a limited number of customers being served by
5 the District in old Dillon Beach, and there is a number of failing septic systems there. He said it does
6 not make sense to piecemeal them into the sewer system one at a time; it would be very expensive
7 and difficult for the District to plan for more treatment and disposal capacity.

8 Mr. DeGabriele advised that a new segment of the LCP addresses the prohibition on any
9 development of desalinization facilities. He explained that even though it is not anticipated at this
10 time that desalinization may be needed, it is an alternative to extending a pipeline and building
11 another well at Gallagher. He said his comment reflects his opinion that that option should be
12 authorized in the Point Reyes community if necessary.

13 Mr. DeGabriele stated that the text in the LCP is outdated with regard to the description of
14 water supply and facilities in the Point Reyes Station area. He informed the Board that he had
15 already submitted the updated information to the county in April, but the comments were not
16 incorporated in the proposed amendments to the LCP.

17 Director Rodoni suggested that a map be included with the comment letter so that it will be
18 clear what parcels on Ocean View Avenue in Dillon Beach the General Manager is referring to.

19 Director Baker said that in regards to the "400 foot" threshold, it is not clear in the letter what
20 the General Manager is requesting.

21 Mr. DeGabriele said that he will revise the letter to say that this policy element should not be
22 applicable to the parcels highlighted on the map.

23 On motion of Director Frites, seconded by Director Rodoni, and carried by those Directors
24 present, the Board authorized the General Manager to send the comment letter on the Marin Local
25 Coastal Program Amendment with revisions to the Marin County Community Development Agency.

26 **BANK OF MARIN LOAN**

27 Mr. Bentley stated that staff is looking for the Board's approval to secure an \$8M loan with
28 the Bank of Marin for costs for the Aqueduct Energy Efficiency Project (AEEP). He summarized the
29 terms of the 20-year loan for the Board. He noted that the last requirement addresses the District's
30 debt ratio; the bank can call the loan if the District fails to maintain a debt coverage ratio of 1.2. He
31 explained that the District must maintain an annual net income over the term of the loan equal to at

1 least 120% of its annual debt service obligation. Mr. Bentley advised that the District's FY10 debt
2 coverage ratio was 1.8 and is expected to be 2.0 through FY 13 and to remain at that ratio due to
3 the recent water rate increases approved by the Board. He advised that the loan fee is \$80,000.

4 Director Baker commented that the commitment letter from Bank of Marin included in the
5 Board packet has minor hand-annotated edits and asked if they have any significance with respect
6 to the action the Board is requested to take.

7 Mr. Bentley responded that the Bank of Marin sent a replacement letter that arrived too late
8 to be included in the Board packet which included the minor edits and two other changes to the
9 District's benefit. He said the interest rate has dropped and is reflected in the new letter, and the
10 date for the return of the execution of the commitment letter has been moved to August 29th.

11 On motion of Director Baker, seconded by Director Rodoni and carried by those directors
12 present, the Board approved Resolution No. 11-23 entitled, "Resolution of the Board of Directors of
13 North Marin Water District Authorizing the General Manager to Enter into a Loan Agreement and the
14 Execution of Financing Documents with Bank of Marin."

15 Director Baker thanked Mr. Bentley for his thoroughness and diligence in negotiating this
16 loan.

17 **SOLAR PROJECT INCENTIVE**

18 Mr. Bentley presented a draft letter to Assembly Member Jared Huffman in support of
19 Senate Bill 585, Reinstatement of California Solar Initiative (CSI) Incentive, for the Board's approval.
20 He explained that the District's solar power project was halted last December when the incentive
21 was suspended. He informed the Board that the District's solar project is "shovel ready" and is
22 number 37 on PG&E's CSI Incentive waiting list, and the passage of this bill would allow the solar
23 project to move forward immediately. Mr. Bentley said that the bill will be heard by the State Senate
24 on August 15th.

25 On motion of Director Fraites, seconded by Director Baker, and carried by those Directors
26 present, the Board authorized the Board President to sign the letter to Assembly Member Huffman
27 supporting reinstatement of the CSI Incentive.

28 **INFORMATION ITEMS**

29 **UPDATE FOR PROPOSED ON AIR/VERIZON CELLULAR TOWER AT WINGED FOOT TANK** 30 **SITE**

31 Robert Clark reminded the Board that in February he advised that On Air/Verizon Cellular
32 Tower was interested in performing a feasibility study of the Winged Foot tank site to determine if

1 the site would be suitable for a cellular communication facility similar to that installed by them at
2 Little Mountain/Stafford Treatment Plant. He said it was determined that access to the tank site
3 would require On Air be granted an easement from Marin County Open Space District and that On
4 Air's application for said easement is included for the Board's information tonight. Mr. Clark stated
5 that at the February meeting, Directors Rodoni and Petterle expressed concern that neighboring
6 residents be notified of the project, and he advised that as part of the county's easement process,
7 On Air and County of Marin will notify local residents of their request. He further advised that once
8 the easement is granted, the project will move forward, and he will return to the Board with the public
9 hearing feedback, feasibility study findings and preliminary license agreement for Board information
10 and consideration.

11 Director Rodoni asked if it was unusual for the vendor's application to provide alternative
12 sites not requiring an easement to the Open Space District rather than to the Planning Department.

13 Mr. Clark stated that On Air gave that information to the county to advise that they have
14 already looked at alternative locations and that the Winged Foot site is the preferred site.

15 **WAC/TAC MEETING – AUGUST 1, 2011**

16 Director Rodoni provided a summary on the WAC/TAC meeting of August 1, 2011 including
17 a report by the Water Supply Coordination Council, updates on the status of the Urban Water
18 Management Plans and the Sonoma-Marin Saving Water Partnership, Biological Opinion, Water
19 Supply/Transmission System improvements for the Hazard and Reliability Program, and Integrated
20 Regional Water Management Plan. Director Rodoni stated that he updated the committee on the
21 District's Recycled Water Programs for the North and South Service Areas status and that the EIR
22 for the Aqueduct Energy Efficiency Project was approved by the District Board of Directors at the
23 July 19th meeting.

24 **MISCELLANEOUS**

25 The Board received the following miscellaneous information: Disbursements, June 2011
26 Equipment Auction Report and Residential Consumption 20-year History.

27 The Board also received the following news articles: Algebra Academy adds up for students
28 and Legal Notice - Ordinance 25 Summary.

1 **ADJOURNMENT**

2 President Schoonover adjourned the meeting at 8:27 p.m.

3 Submitted by

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Renee Roberts
District Secretary

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NORTH MARIN WATER DISTRICT
MONTHLY PROGRESS REPORT FOR July 2011
 August 16, 2011

1.

Novato Potable Water Prod - RR & STP Combined - in Million Gallons - FYTD

Month	FY11/12	FY10/11	FY09/10	FY08/09	FY07/08	12 vs 11 %
July	371	379	360	419	417	-2%

West Marin Potable Water Production - in Million Gallons - FY to Date

Month	FY11/12	FY10/11	FY09/10	FY08/09	FY07/08	11 vs 10 %
July	9.2	9.9	10.0	11.8	11.5	-7%

Stafford Treatment Plant Production - in Million Gallons - FY to Date

Month	FY11/12	FY10/11	FY09/10	FY08/09	FY07/08	11 vs 10 %
July	115	109	152	131	131	6%

Recycled Water Production - in Million Gallons - FY to Date

Month	FY11/12	FY10/11	FY09/10	FY08/09	FY07/08	11 vs 10 %
July	11.0	11.9	12.0	13.6	13.4	-8%

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2. Stafford Lake Data

	July Normal	July 2010	July 2011
Rainfall this month	0.00 Inches	0.00 Inches	0.00 Inches
Rainfall this FY to date	0.00 Inches	0.00 Inches	0.00 Inches
Lake elevation*	188.10 Feet	189.80 Feet	189.70 Feet
Lake storage**	870.00 MG	968.40 MG	962.20 MG

* Spillway elevation is 196.0 feet

** Lake storage less 390 MG = quantity available for production

Temperature (in degrees)

	Minimum	Maximum	Average
July 2010	48	97	66
July 2011	51	94	68

3. Number of Services

July 31	Novato Water			Recycled Water			West Marin Wtr			Oceana Marin Swr		
	FY12	FY11	Incr %	FY12	FY11	Incr %	FY12	FY11	Incr %	FY12	FY11	Incr %
Total meters installed	20,739	20,733	0.0%	3	3	0.0%	816	815	0.1%	-	-	-
Total meters active	20,466	20,443	0.1%	3	3	0.0%	770	769	0.1%	-	-	-
Active dwelling units	23,861	23,872	0.0%	0	0	-	803	801	0.2%	227	226	0.4%

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4. Oceana Marin Monthly Status Report (July)

Description	FY 10-11	FY 11-12
Effluent Flow Volume (MG)	0.66	0.72
Irrigation Field Discharge (MG)	0.55	0.61
Treatment Pond Freeboard (ft)	3.4	3.4
Storage Pond Freeboard (ft)	6.4	5.2

5. Developer Projects Status Report (July)

Job No.	Project	% Complete	% This month
2756	Circle Bank	60	60
2793	Novato Sanitary District- Lea Drive	99	2

District Projects Status Report - Const Dept (July)

Job No.	Project	% Complete	% This month
7067	So. Novato Blvd/Rowland Main Break Repair	30	20
8716.08	City Paving Coordination	8	8

Employee Hours to Date, FY 11/12

As of Pay Period Ending July 31, 2011

Percent of Fiscal Year Passed = 8%

Developer Projects	Actual	Budget	% YTD Budget	District Projects			
				Actual	Budget	% YTD Budget	
Construction	26	1,800	1	Construction	348	4,944	7
Engineering	65	1,393	5	Engineering	627	5,564	11

6. Safety/Liability

	Industrial Injury with Lost Time			Liability Claims Paid		
	Lost Days	OH Cost of Lost Days (\$)	No. of Emp. Involved	No. of Incidents	Incurred (FYTD)	Paid (FYTD) (\$)
FY through July 11	0	0	0	0	0	0
FY through July 10	0	0	0	0	0	\$735

Days without a lost time accident through July 31, 2011 = 143 days

7. Energy Cost

FYE	Kwh	June		Fiscal Year-to-Date thru June		
		¢/Kwh	Cost/Day	Kwh	¢/Kwh	Cost/Day
2011 Stafford TP	90,929	16.7¢	\$475	883,763	15.7¢	\$380
Pumping	81,913	15.9¢	\$502	1,429,714	14.8¢	\$560
Other*	42,030	21.7¢	\$295	470,957	19.5¢	\$251
	214,872	17.4¢	\$1,496	2,784,434	15.9¢	\$1,201
2010 Stafford TP	93,600	15.1¢	\$441	773,476	15.9¢	\$335
Pumping	163,542	15.3¢	\$864	1,317,613	15.1¢	\$543
Other*	49,419	20.4¢	\$326	477,319	18.8¢	\$247
	306,561	16.1¢	\$1,589	2,568,408	16.0¢	\$1,121
2009 Stafford TP	112,500	16.2¢	\$627	698,798	15.1¢	\$289
Pumping	181,117	15.4¢	\$932	1,727,760	14.1¢	\$664
Other*	49,259	20.3¢	\$313	515,906	17.2¢	\$243
	342,876	16.4¢	\$2,079	2,942,464	14.9¢	\$1,200

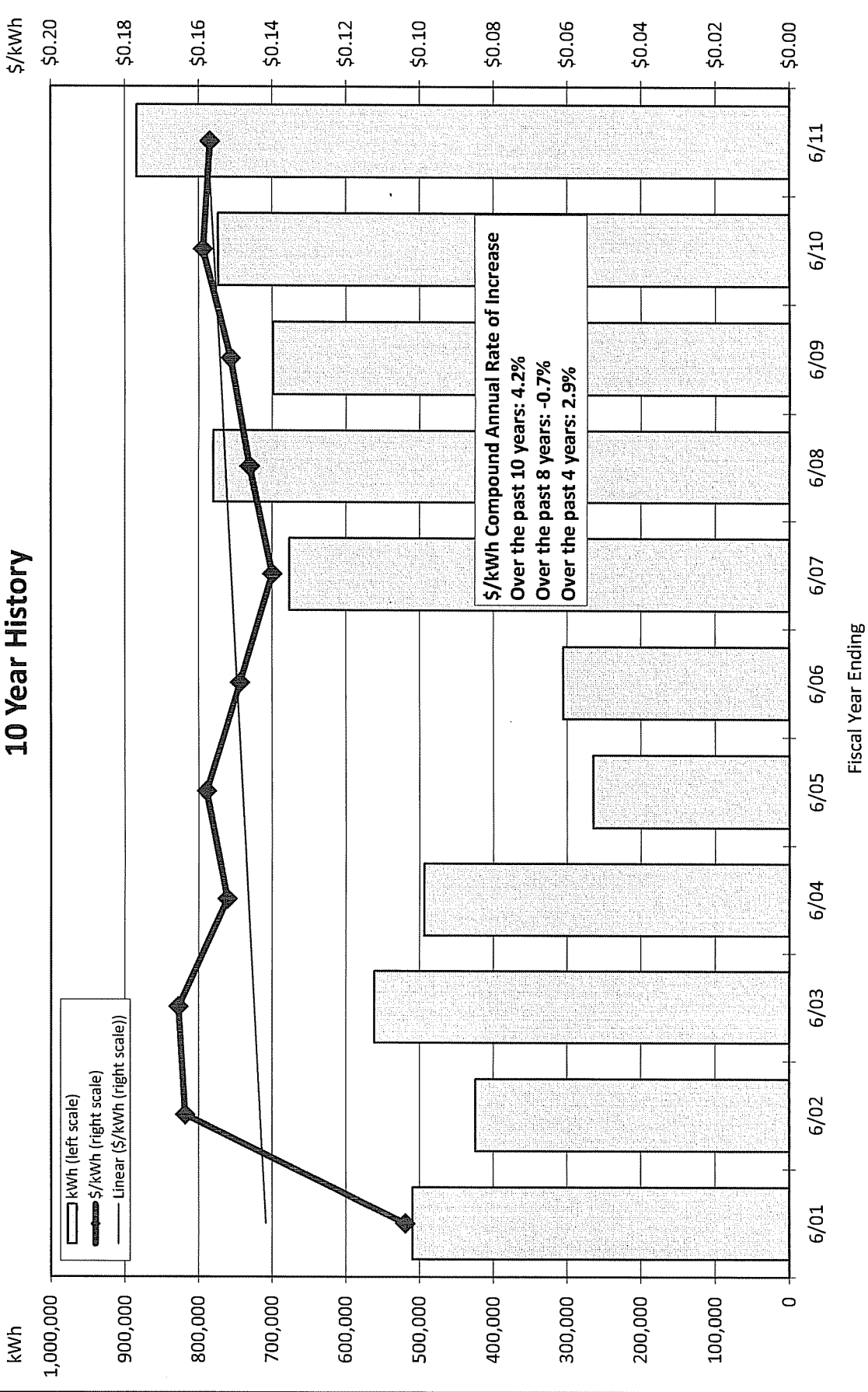
*Other includes West Marin Facilities

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8. Water Conservation Update (July)

	Month of July 2011	Program Total to Date
High Efficiency Toilet (HET) Rebate (\$150 each)	24	2,210
Retrofit Certificates Filed	18	4,201
Cash for Grass Rebates Paid Out	3	452
Washing Machine Rebates	25	5,562
Water Smart Home Survey	28	1,385

STP Power Demand and Cost 10 Year History



NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Order July 2011

Prepared: 08/09/11

Type	Jul-11	Jul-10	Action Taken July 2011
<u>Consumers' System Problems</u>			
Consumer Service Line Leaks	4	0	Notified Customer
Meter Leak Consumer's Side	15	15	Notified Customer
House Plumbing	0	0	~
Noisy Plumbing	0	1	~
Seepage or Other	0	0	~
House Valve / Meter Off	6	7	Turned Back On
Nothing Found	7	5	Notified Customer
Low Pressure	0	1	~
High Pressure	0	1	~
Water Waster Complaints	0	0	~
Total	32	30	
<u>Service Repair Reports</u>			
Register Replacements	0	0	~
Meter Replacement	0	0	~
Meter Box Alignment	0	0	~
Meter Noise	0	0	~
Dual Service Noise	0	0	~
Box and Lids	0	5	~
Water Off/On Due To Repairs	4	10	Notified Customer
Misc. Field Investigation	2	3	Notified Customer
Total	6	18	
<u>Leak Complaints</u>			
Main-Leak	0	0	~
Mains-Nothing Found	0	0	~
Mains-Damage	0	3	~
Service- Leak	16	18	Repaired
Services-Nothing Found	6	2	Notified Customer
Service-Damaged	0	0	~
Fire Hydrant-Leak	1	3	Repaired
Fire Hydrants-Nothing Found	0	1	~
Fire Hydrants-Damaged	3	0	Repaired
Meter Replacement	0	4	~
Meters-Leak	0	1	~
Meters-Nothing Found	0	0	~
Meters Damaged	0	0	~
Washer Leaks	7	9	Replaced
Total	33	41	
<u>High Bill Complaints</u>			
Consumer Leaks	4	6	Notified Customer
Meter Testing	0	0	~
Meter Misread	1	2	Notified Customer
Nothing Found	17	12	Notified Customer
Projected Consumption	0	0	~
Excessive Irrigation	2	1	Notified Customer
Total	24	21	

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Order July 2011

Prepared: 08/09/11

Type	Jul-11	Jul-10	Action Taken July 2011
<u>Low Bill Reports</u>			
Meter Misread	0	0	~
Stuck Meter	0	0	~
Nothing Found	0	2	~
Projected Consumption	0	0	~
Minimum Charge Only	0	0	~
Total	0	2	
<u>Water Quality Complaints</u>			
Taste and Odor	3	1	<p>Customer wanted water tested for chlorine levels. (Andreas Ct) Chlorine analyzed from customer's kitchen was normal & typical for Novato. Customer was notified of results.</p> <p>Customer reported strong chlorine odor. (Ranch Ct) Chlorine level normal. Customer was notified of results.</p> <p>Customer reported a funny taste & odor in water. (Center Rd) Pressurized hose may have caused bad taste & odor noted by customer. All results normal.</p>
Color	0	0	~
Turbidity	0	0	~
Suspended Solids	0	0	~
Other	3	1	<p>Customer requested testing for lead. (Shady Ln) Lead was not detected. Customer was notified.</p> <p>Customer involved with rehabilitation wanted swimming pool tested. (Santa Maria Dr) All results normal and typical. Customer was notified of results.</p>
Total	6	2	
TOTAL FOR MONTH:	101	114	-11%
<u>Fiscal YTD Summary</u>			
Consumer's System Problems	32	30	7%
Service Repair Report	6	18	-67%
Leak Complaints	33	41	-20%
High Bill Complaints	24	21	14%
Low Bills	0	2	-100%
Water Quality Complaints	6	2	200%
Total	101	114	-11%
			<p><u>Change Primarily Due To</u> Increase In Consumer Line Leaks Decrease in Water Off/On To Repairs Decrease In "Nothing Found" Increase In "Nothing Found" Decrease In "Nothing Found" Increase In Taste & Odor</p>

NORTH MARIN WATER DISTRICT

Summary of Complaints & Service Order July 2011

Prepared: 08/09/11

<u>Type</u>	<u>Jul-11</u>	<u>Jul-10</u>	<u>Action Taken July 2011</u>
<u>"In House" Generated and Completed Work Orders</u>			
<u>Check Meter:</u> possible consumer/District leak, high bill, flooded, need read, etc.	317	244	
<u>Change Meter:</u> leaks, hard to read	2	13	
<u>Possible Stuck Meter</u>	3	5	
<u>Repair Meter:</u> registers, shut offs	0	0	
<u>Replace Boxes/Lids</u>	19	5	
<u>Hydrant Leaks</u>	0	4	
<u>Trims</u>	68	97	
<u>Dig Outs</u>	42	56	
<u>Letters to Consumer:</u> meter obstruction, trims, bees, gate access, etc.	0	2	
<u>Misc:</u> locate meter, get meter number, cross connection follow ups, kill service, etc.	0	0	
	<u>451</u>	<u>426</u>	

Bill Adjustments Under Board Policy:

July 11 vs. July 10

Jul-11	15	\$2,184
Jul-10	20	\$5,381

Fiscal Year to Date vs. Prior FYTD

11/12 FYTD	15	\$2,184
10/11 FYTD	20	\$5,381

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**NORTH MARIN
WATER DISTRICT**

North Marin Water District- 4th Quarter FY2010/2011

Bacteriological Quality Monitoring

Novato: 243 Samples Analyzed. No samples positive for coliform bacteria
 Point Reyes: 23 Samples analyzed. No samples positive for coliform bacteria.

Chemical Quality Monitoring

Constituent	Units	Maximum Contaminant level	SCWA North Marin Aqueduct	Stafford Treatment Plant	Point Reyes Treatment Plant
Conductivity	umhos/cm	900 *	314	307	322
TDS	mg/L	500 *	190	154	171
Hardness	mg/L	-	125	82.6	68.4
Alkalinity	mg/L	-	151	72.3	127
Calcium	mg/L	-	27.8	18.4	13.9
Magnesium	mg/L	-	15.2	10.2	10.8
Copper	mg/L	1.0*	ND	ND	ND
Iron	mg/L	0.3*	ND	ND	ND
Manganese	mg/L	0.05 *	ND	ND	ND
Zinc	mg/L	5.0 *	ND	ND	ND
Sodium	mg/L	-	21	26	42
Chloride	mg/L	250 *	7.00	42.7	18.6
Sulfate	mg/L	250 *	14.2	7.78	8.39
Fluoride	mg/L	2.0 (1.4-2.4)	ND	0.107	ND
Nitrite as N	mg/L	1.0	ND	ND	ND
Nitrate as N	mg/L	10	0.389	0.249	0.158
pH	pH units	8.5 *	8.45	8.37	7.35
Turbidity	NTU	5	0.09	0.11	0.08
Color	PCU	15	<2.5	<2.5	<2.5
Free Chlorine	mg/L	4.0	0.72	1.35	0.79
Total Chlorine	mg/L	4.0	0.78	1.48	0.90
Temperature	° C	-	16.5	17.8	14.9
Odor	TON	3	<1	<1	<1

*Indicates secondary drinking water standard

ND = Not Detected
 NA = Not Analyzed

6

MEMORANDUM

To: Board of Directors
From: Chris DeGabriele, General Manager
Subject: ACWA Region 1 Board Election
T:\GM\ACWA\2011\ACWA Ballot memo.doc

August 12, 2011

RECOMMENDED ACTION: Authorize General Manager to Vote for Nominating Committee's Recommended Slate
FINANCIAL IMPACT: None

Attached is the Region 1 Board Ballot with the recommended slate of officers for the upcoming two-year term (2012-2013). Also attached is an email from ACWA describing the election rules and regulations. The General Manager has participated on the Nominating Committee and recommends that the Board authorize the General Manager to vote for the Nominating Committee's recommended slate.

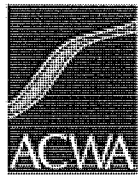
RECOMMENDATION

Board authorize General Manager to concur with Region 1 Nominating Committee's recommended slate and authorize Board President signature on Region 1 Board Ballot.

Approved by GM CD
Date 8/12/2011

Region 1 Board Ballot

2012-2013 TERM



**Association
of California
Water Agencies**
Since 1910
Leadership
Advocacy
Information

**Please return completed ballot
by September 30, 2011**

E-mail: katied@acwa.com
Fax: 916-561-7124
Mail: ACWA
910 K Street, Suite 100
Sacramento, CA 95814

General Voting Instructions:

1. Please complete your agency information. The authorized representative is determined by your agency in accordance with your agency's policies and procedures.
2. You may either vote for the slate recommended by the Region 1 Nominating Committee or vote for individual region board members. Please mark the appropriate box to indicate your decision.

Region 1 Nominating Committee's Recommended Slate

- I concur with the Region 1 Nominating Committee's recommended slate below.

Chair:

Paul Helliker, Marin Municipal Water District

Vice Chair:

Aldaron Laird, Humboldt Bay Municipal Water District

Board Members:

Jennifer Burke, City of Santa Rosa

Dennis Mayo, McKinleyville Community Services District

Judy Mirbegian, Hidden Valley Lake Community District

Region 1 Individual Board Candidate Nominations

- I do not concur with the Region 1 Nominating Committee's recommended slate. I will vote for individual candidates below as indicated.

Candidates for Chair: (Choose one)

- Paul Helliker, Marin Municipal Water District

Candidates for Vice Chair: (Choose one)

- Aldaron Laird, Humboldt Bay Municipal Water District

Candidates for Board Members: (Max of 5 choices)

- Jennifer Burke, City of Santa Rosa

- Dennis Mayo, McKinleyville Community Services District

- Judy Mirbegian, Hidden Valley Lake Community Service District

AGENCY NAME

AUTHORIZED REPRESENTATIVE

DATE

SUBMIT FORM

Renee Roberts

From: Chris DeGabriele
Sent: Tuesday, August 02, 2011 8:26 AM
To: Renee Roberts
Subject: FW: Ballot: ACWA Region 1 Election For the 2012-2013 Term
Attachments: Region 1 Board Ballot.pdf

Renee,

Please prepare a consent item for the next agenda.

Thanks,

Chris

From: Katie Dahl [mailto:KatieD@acwa.com]
Sent: Monday, August 01, 2011 10:03 AM
To: Katie Dahl
Cc: Marcia Wulff
Subject: Ballot: ACWA Region 1 Election For the 2012-2013 Term

TO: ACWA REGION 1 MEMBER AGENCY BOARD PRESIDENT AND GENERAL MANAGER

It is time to elect the 2012-2013 ACWA Region 1 officers and board members who will represent and serve the members of Region 1. Attached, you will find the official ballot which includes the Region 1 Nominating Committee's recommended slate as well as individual candidates running for the Region 1 Board.

Your agency is entitled to cast only one vote. Please review the attached ballot and have your agency's authorized representative cast its vote for the slate as recommended by the Region 1 Nominating Committee or cast its vote for individuals for a Region 1 chair, vice chair and three to five board members.

Return the ballot to ACWA by SEPTEMBER 30, 2011*

Attention: Katie Dahl, ACWA Region Coordinator
Please e-mail to katied@acwa.com or fax to 916-561-7124 or mail to:
Association of California Water Agencies
910 K Street, Suite 100
Sacramento, CA 95814

****Ballots received after September 30 will not be accepted.***

REMEMBER, YOUR VOTE IS IMPORTANT. Region 1 board members are elected to represent the issues, concerns and needs of your region. The Region 1 chair and vice chair will serve on ACWA's board of directors for the next two year-term of office beginning January 1, 2012. Additionally, the newly elected chair and vice chair will make the Region 1 committee appointment recommendations t

the ACWA president for the 2012-2013 term. Also, either the chair or vice chair will hold a seat on the ACWA Finance Committee.

If you have questions, please contact your Regional Affairs Representative, Marcia Wulff, at marciaw@acwa.com or call 916-441-4545. Thank you for your careful consideration and participation in the Region 1 election process.

Katie Dahl

Region Coordinator
Association of CA Water Agencies
916-441-4545 | katied@acwa.com

You have received this message from the Association of California Water Agencies (ACWA) on behalf of its members, supporters, and allied interests. To protect their privacy, ACWA policy prohibits the unauthorized reuse, redistribution, reproduction or retransmittal of this material or the distribution list.

7

MEMORANDUM

To: Board of Directors

August 12, 2011

From: Pablo Ramudo, Water Quality Supervisor

Subject: Request Out-of-State Travel for Stacie Goodpaster

P:\LAB\WQ Supv\2011\Memo re stacie nevada2011.doc

RECOMMENDED ACTION: Approve Out-of-State Travel for Stacie Goodpaster to attend AWWA fall conference.

FINANCIAL IMPACT: \$1200

Stacie Goodpaster has been a member of the AWWA California Nevada section Laboratory Analyst Certification Committee for over four years and currently serves as Vice Chairwoman. Stacie faithfully meets with other members of the committee at regular monthly teleconferences. The committee meets bi-annually at the AWWA CA-NV spring and fall conferences.

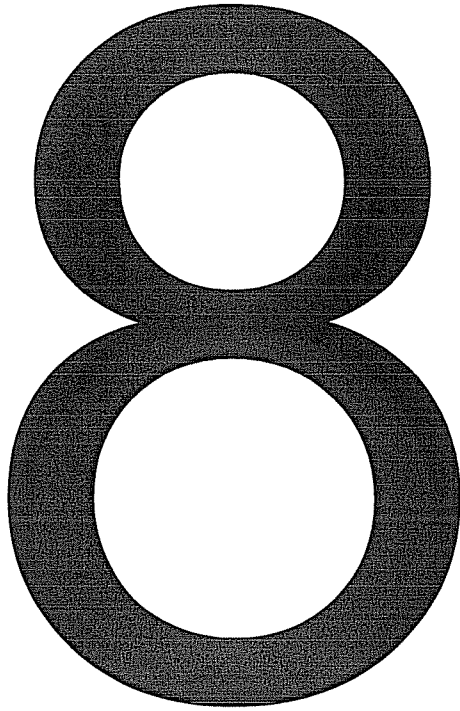
The annual fall conference this year is taking place in Reno, Nevada from October 16th through the 20th. In addition to the committee meeting Stacie will attend technical sessions for continuing education credits necessary for maintenance of Distribution System Operator certificate and Laboratory Analyst certificate. Stacie's expenses will be covered by the Water Quality budget for meetings and training.

Recommendation:

Authorize Stacie Goodpaster to travel out of state to attend the AWWA Fall conference.

Approved by GM CR

Date 8/12/2011



MEMORANDUM

To: Board of Directors

Date: August 12, 2011

From: Drew McIntyre, Chief Engineer

Subject: Fiscal Year Improvement Projects Year End Report – Engineering Department

Z:\CHIEF ENGINCINTYRE\BUDGETS\FY10 11 Budget\eng dept perf recap-4th Qtr 10-11.doc

The purpose of this memo is to provide a year-end status report to the Board on the District's performance in completing budgeted FY10-11 Improvements Projects (IP). The following information is being provided to supplement the progress report summary provided to the Board each month.

SUMMARY

	Annual Project Costs		Project Completion ⁽¹⁾ %		Earned Value ⁽²⁾ (\$)	
	Budget (\$)	Actual (\$)	Planned	Actual	Planned	Actual
Novato System	5,624,000	3,470,936	100	94	2,984,000	3,450,937
West Marin	419,000	171,047	100	72	396,000	148,719

(1) Includes credit for partial completion on projects

(2) From Attachment B

The above tabulation shows that actual IP expenditures were 62% of the approved FY10-11 budget for Novato (versus a mid-year forecast of 67%). With respect to West Marin (including Oceana Marin), IP expenditures were 41% of the approved FY10-11 budget value (versus a mid-year forecast of 92%).

Performance Status for Special Improvement Projects

The attached tables and figures summarize the District's year-end performance in completing FY10-11 Improvements Projects. This review encompasses all District IP's in both Novato and West Marin.

A total of 43 projects were originally budgeted in FY10-11 for the Novato, West Marin and Oceana Marin service areas (see Attachments A and B). Ten projects have been added, five projects were carried over from FY09-10 and seven projects have been deferred resulting in an adjusted budget total of 51 projects (versus 59 projects in the prior fiscal year). Of these 51 Improvement Projects, 29 are under the lead responsibility of the Engineering Department for completion (26 in Novato and 3 in West Marin). The remaining 22 projects are under the responsibility of the other departments: 15 – E/M Maintenance, 3 – Operations, 2 – Construction, and 2 – General Manager). A detailed project milestone schedule is provided in Attachment C.

At year end, 44 out of the 51 projects (i.e., 86%) have been completed by all departments and 25 out of the 44 projects (i.e., 57%) have been completed by Engineering. When broken down by service areas, 36 of the Novato IPs have been completed and 8 West Marin IPs have also been finished. As shown in Attachment A, overall progress in completing Novato IPs (i.e., 88%) was above the mid-year projected completion percentage of 67%. From a strictly IP budget expenditure standpoint, approximately 62% of the authorized Novato IP budget was expended (compared to 43% in FY09-10).

With respect to West Marin IPs, overall progress in completing IPs (i.e., 80%) was lower than the mid-year projected completion percentage of 92%.

Project Cost Variances (see Attachment B)

Novato Service Area

Of the 41 FY10-11 Novato IPs, 35 (or 85%) were at or below original budget (compared to 84% in FY09-10). The projects exceeding the FY10-11 budgets were: (1) Bel Marin Keys Looping, (2) 4" Storm Drain Lowering – Sunset, (3) Marin Sonoma Narrows Aqueduct Relocation, (4) Emergency Power Connections, (5) Stafford Lake Sediment Survey, (6) NBWRA Grant Outreach and (7) Reservoir Hill Tank Property Transfer. From a strictly IP expenditure standpoint, lack of progress in the Stafford Treatment Plant Solar project represents a \$2.4 million shortfall. Without considering this project, overall actual Novato IP expenditures would have exceeded the approved budget by approximately 8%. When reviewing total project expenditures for all Novato system improvements, it is apparent that no budget augmentation was needed during this fiscal year.

West Marin Service Area – including Oceana Marin³

All ten FY10-11 West Marin projects (i.e., 100%) were at or below the original budget (compared to 80% in FY09-10). Based on a review of total project expenditures for all West Marin Improvement Projects, no budget augmentation was required during this fiscal year.

Engineering Department IP Labor Hours

The Engineering Department provides a multitude of functions supporting overall operation, maintenance and expansion of water and wastewater facilities. The development work classifications are: (1) General Engineering, (2) Developer Projects and (3) District (i.e., IP) Projects. Out of approximately 14,900 engineering labor hours available annually, the FY10-11 labor budget for Developer Projects and District Projects was 2,180 (15% of total) and 4,858 (33% of total), respectively. A chart of actual hours expended versus budget for both Developer and District projects during FY10-11 is provided in Attachment D. At year-end, Engineering labor hours for Developer work total 1154 hours (vs. 1,555 hours in FY 09-10) compared against a forecast of 2,180 hours (53% of forecast). With respect to District projects, 7,623 engineering labor hours (vs. 6,101 hours in FY09-10) have been expended on Improvement Projects compared against the estimate of 4,858 hours (or 160% of forecast). In summary, labor hours for Developer Projects have continued to lag while District projects labor efforts track significantly higher than budgeted hours (primarily due to work on the Recycled Water Expansion Project).

³ Supplement to information provided to Board on July 5th as part of the Preliminary West Marin Year End Progress Report.

FY 10-11
 IMPROVEMENTS PROJECTS

	NOVATO SERVICE AREA	WEST MARIN/ OCEANA MARIN	TOTAL
PROJECTS BUDGETED			
Original Budget	32	11	43
Added	8	2	10
FY 09-10 Carryover	5	0	5
Deferred/Dropped	(4)	(3)	(7)
Adjusted Budget	41	10	51
FISCAL YEAR COMPLETION STATUS			
No. of Projects Fully Completed	36	8	44
Mid-Year Projected Completion Performance	67%	92%	80%
<u>Year-End Completion Performance</u>	88%	80%	86%

FY09-10 CARRYOVER

- PB Replacement – Cheda Knolls
- Inaccurate Meter Replacement Program
- Detector Check Assembly Replacement
- STP Backflow Meter & Check Valve (CDPH Grant)
- Chlorine Dioxide Generator

Date Brought to Board

- 1st Quarter Report
- 1st Quarter Report
- 1st Quarter Report
- 1st Quarter Report
- 1st Quarter Report

DEFERRED/DROPPED

Novato

- Admin Office/Lab/Yard Remodel Design
- Solar Panel Installation
- Repl T1 Line from STP
- Local Water Supply Enhancement Study

- 3rd Quarter Report
- 3rd Quarter Report
- 3rd Quarter Report
- 1st Quarter Report

West Marin

- Cable Connection to TP
- Water System Master Plan Update
- Repl PRE Tank #4A

- 1st Quarter Report
- 1st Quarter Report
- 3rd Quarter Report

PROJECTS ADDED

Novato

- So. Novato/Rowland Main Break No. 2
- So. Novato Main Break – Sunset Pkwy
- So. Petaluma Blvd Water Main Upsizing
- C Street Water Main Upsize
- PB Serv. Repl. – Leslie Ct/San Blas Ct/Spinosa Way
- 18" Flanged Gate Valve Repl – San Marin & San Carlos
- GAC Building Rehab/Paving
- Recycled Water Expansion to South Service Area

- 2nd Quarter Report
- 3rd Quarter Report
- 3rd Quarter Report
- 3rd Quarter Report
- 3rd Quarter Report
- 3rd Quarter Report
- 1st Quarter Report
- 1st Quarter Report

West Marin

- Pt. Reyes Well #3 Rehab
- Water Rights Legal/Staff Time

- 2nd Quarter Report
- 2nd Quarter Report

NOVATO SYSTEM IMPROVEMENT PROJECTS SUMMARY FY10-11
AS OF JUNE 30, 2011

STATUS	DEPT	ITEM #	PROJECT NO.	DESCRIPTION	PROJECT COSTS		% COMPLETE		EARNED VALUE	
					Budget	Actual	Baseline	Actual	Planned	Actual
				1. PIPELINE REPLACEMENTS/ADDITIONS						
PC	Eng	1	1.a.1	So. Novato/Rowland Main Break #2	\$0	\$96,392	100	100	\$0	\$96,392
C	Eng	2	1.a.3	So. Petaluma Blvd Water Main Upsize	\$0	\$20,124	100	100	\$0	\$20,124
C	Eng	3	1.a.4	C Street Water Main Upsize	\$0	\$28,085	100	100	\$0	\$28,085
PC	Eng	4	1.a.5	So. Novato/Rowland Main Break - Sunset Pkwy	\$100,000	\$10,654	100	100	\$0	\$10,654
C	Eng	5	1.b.1	Bel Marin Keys Looping	\$46,000	\$101,392	100	100	\$100,000	\$101,392
C	Eng	6	1.c.1	PB Repl - Holstrom Cir/Jan Way	\$64,000	\$30,362	100	100	\$46,000	\$30,362
C	Eng	7	1.c.2	PB Repl - San Domingo Way	\$60,000	\$42,898	100	100	\$64,000	\$42,898
C	Eng	8	1.c.3	PB Repl - Sanchez Way	\$0	\$54,438	100	100	\$60,000	\$54,438
C	Eng	9	1.c.4	PB Repl - Cheda Knolls	\$0	\$17,759	100	100	\$0	\$17,759
C	Eng	10	1.c.5	PB Repl - Leslie Ct/San Blas Ct/Spinosa Way	\$0	\$30,480	100	100	\$0	\$30,480
C	Eng	11	1.d.1	City Paving Coordination (Meas. B)	\$20,000	\$18,373	100	100	\$20,000	\$18,373
C	Eng	12	1.d.2.a	4' Storm Drain Lowering - Sunset	\$20,000	\$30,259	100	100	\$20,000	\$30,259
C	Eng	13	1.d.2.b	County Relocation - Atherton Ave	\$10,000	\$9,887	100	100	\$10,000	\$9,887
C	Eng	14	1.e.1-5	MSN Aqueduct Relocation	\$300,000	\$500,398	100	100	\$300,000	\$500,398
				SubTotal	\$620,000	\$991,501				
				2. SYSTEM IMPROVEMENTS						
C	Eng	15	2.a	Sampling Stations	\$24,000	\$19,329	100	100	\$24,000	\$19,329
PC	Maint	16	2.b	System Cathodic Protection Maintenance/Upgrades	\$20,000	\$1,113	100	75	\$20,000	\$835
C	Maint	17	2.c	RTU Upgrades	\$50,000	\$43,817	100	100	\$50,000	\$43,817
C	Maint	18	2.d	Emergency Power Connections	\$25,000	\$28,238	100	100	\$25,000	\$28,238
PC	Maint	19	2.e	BMK Cross-Connect Upgrades	\$45,000	\$28,826	100	100	\$45,000	\$28,826
C	Maint	20	2.f	Inaccurate Meter Replacement Program	\$0	\$3,475	100	100	\$0	\$3,475
C	Maint	21	2.g	Detector Check Assy Repl FY10	\$0	\$12,841	100	100	\$0	\$12,841
C	Eng	22	2.h	18' Flanged Gate Valve Repl-San Marin/San Carlos	\$0	\$27,688	100	100	\$0	\$27,688
				SubTotal	\$164,000	\$165,327				
				3. BUILDINGS, YARD, & S.T.P. IMPROVEMENTS						
C	Maint	23	3.a.1	Admin-Office/Lab/Yard Remed-Design - DEFER	\$100,000	\$0	0	0	\$0	\$0
C	Maint	24	3.a.2	Other Admin Bldg Improvements	\$20,000	\$0	100	100	\$20,000	\$0
C	Ops	25	3.b.1	Other Yard Improvements	\$15,000	\$5,316	100	100	\$15,000	\$5,316
PC	Ops	26	3.c.1.a	Watershed Erosion Control - Straw Project	\$9,000	\$3,000	100	100	\$9,000	\$3,000
C	Ops	27	3.c.1.b	Watershed Erosion Control - Dairy Nutrient Containment	\$50,000	\$9,683	100	20	\$50,000	\$1,937
C	Eng	28	3.c.2	Solar Panel-Installation - DEFER	\$2,400,000	\$11,974	0	0	\$0	\$0
C	Eng	29	3.c.3	Leveroni Creek Bank Repair - Design Phase	\$30,000	\$20,862	100	100	\$30,000	\$20,862
C	Eng	30	3.c.4	Laake Sediment Survey/Dredging Specs	\$25,000	\$36,317	100	100	\$25,000	\$36,317
C	Eng	31	3.c.5	Disinfection Building Roof Replacement	\$50,000	\$9,957	100	100	\$50,000	\$9,957
C	Const	32	3.c.6	Replace T4 Line from STP - DEFER	\$15,000	\$0	0	0	\$0	\$0
C	Const	33	3.c.7	Dam Concrete Apron Repairs	\$50,000	\$38,488	100	100	\$50,000	\$38,488
C	Eng	34	3.c.8	GAC Building Rehab/Paving	\$0	\$22,049	100	100	\$0	\$22,049
C	Eng	35	3.c.9	BF Meter/Check Valve CDPH Grant	\$0	\$2,710	100	100	\$0	\$2,710
C	Eng	36	3.c.10	Chlorine Dioxide Generator	\$0	\$60,915	100	100	\$0	\$60,915
				SubTotal	\$2,764,000	\$221,271				
				PROJECT FORECAST REVISED						
				Baseline projects with revised forecast budget increases (indicated by shaded box)						
				Baselined projects to be deferred (indicated in bold)						
				New projects added (indicated in bold)						
				Prior year projects carried over (indicated in <i>italics</i>)						

**NOVATO SYSTEM IMPROVEMENT PROJECTS SUMMARY FY10-11
AS OF JUNE 30, 2011**

STATUS ¹	DEPT	ITEM #	PROJECT NO.	DESCRIPTION	PROJECT COSTS		% COMPLETE		EARNED VALUE	
					Budget	Actual	Baseline	Actual	Planned	Actual
				4. STORAGE TANKS & PUMP STATIONS						
C	Eng	34	4.a.1	Crest Tank #2	\$1,000,000	\$826,345	100	100	\$1,000,000	\$826,345
PC	Maint	35	4.b.1	Lynwood PS Motor Control Center	\$188,000	\$30,003	100	15	\$188,000	\$30,003
PC	Eng	36	4.c	Pacheco Tank C12 Mixing System (Part 1)	\$75,000	\$8,653	100	15	\$75,000	\$8,653
				SubTotal	\$1,263,000	\$865,001				
				5. PRELIMINARY PROJECT ENGINEERING & STUDY						
C	Eng	37	5.a	Facility Map Database	\$20,000	\$16,731	100	100	\$20,000	\$16,731
C	Eng	38	5.b	STP Capacity/Solids Disposal Study	\$25,000	\$24,911	100	100	\$25,000	\$24,911
C	GM	39	5.c	Urban Water Management Plan	\$15,000	\$11,096	100	100	\$15,000	\$11,096
				5.d Local Water Supply Enhancement Study - DEFER	\$100,000	\$0	0	0	\$0	\$0
				SubTotal	\$160,000	\$52,738				
				6. RECYCLED WATER FACILITY						
C	Eng	40	6.a	NBWRA Grant Outreach	\$35,000	\$133,319	100	100	\$35,000	\$133,319
C	Eng	41	6.b	Reservoir Hill Tank Property Transfer	\$5,000	\$38,811	100	100	\$5,000	\$38,811
C	Eng	42	6.c	Expansion to North Service Area	\$613,000	\$454,813	100	100	\$613,000	\$454,813
C	Eng	43	6.d	RW Expansion to South Service Area	\$0	\$548,155	100	100	\$0	\$548,155
				SubTotal	\$653,000	\$1,175,098				
				TOTALS	\$5,624,000	\$3,470,936	100	94	\$2,984,000	\$3,450,937
				PROJECT FORECAST REVISED						
				Baseline projects with revised forecast budget increases (indicated by shaded box)						
				Baselined projects to be deferred (indicated in strikeout)						
				New projects added (indicated in bold)						
				Prior year projects carried over indicated in <i>italics</i>						
				¹ C - Completed						
				PC - Partially completed						

WEST MARIN SYSTEM IP PROJECT SUMMARY FY10-11
AS OF JUNE 30, 2011

STATUS	DEPT	ITEM #	PROJECT NO.	DESCRIPTION	PROJECT COSTS		% COMPLETE		EARNED VALUE	
					Budget	Actual	Baseline	Actual	Planned	Actual
				1. PROJECTS BENEFITING BOTH WATER SYSTEMS						
				System Improvements						
PC	Eng	1		1.a Tank Seismic Upgrades	\$60,000	\$6,647	100	10	\$60,000	\$6,647
C	Eng	2		1.b TP Solids Handling	\$100,000	\$63,400	100	100	\$100,000	\$63,400
				1.c Cable Connection to TP - DEFER	\$13,000	\$0	0	0	\$0	\$0
				1.d Replace PRE Tank #4A - DEFER	\$55,000	\$22,328	100	0	\$55,000	\$0
C	Const	3		1.e Replace Retaining Wall at PRE 2	\$30,000	\$28,696	100	100	\$30,000	\$28,696
C	Maint	4		1.f Pt. Reyes Well #3 Rehab	\$0	\$15,415	100	100	\$0	\$15,415
					\$258,000	\$136,486				
				Special Projects/Studies						
				1.h Water System Master Plan Update- DEFER	\$10,000	\$0	0	0	\$0	\$0
C	GM	5		1.i Water Rights Legal/Staff Time	\$0	\$8,201	100	100	\$0	\$8,201
				6-8 SubTotal	\$10,000	\$8,201				
				1-8 Subtotal	\$268,000	\$144,687				
				2. Oceana Marin Sewer System						
C	Ops	6		2.a Infiltration Study & Repair	\$15,000	\$0	100	0	\$15,000	\$0
C	Maint	7		2.b Oceana Marin Remote Alarms	\$15,000	\$9,699	100	100	\$15,000	\$9,699
C	Maint	8		2.c Replace Siphon Dosage Tank	\$11,000	\$4,115	100	100	\$11,000	\$4,115
PC	Eng	9		2.d Cross Country Sewer Line Rehab	\$100,000	\$12,546	100	12	\$100,000	\$12,546
C	Maint	10		2.e Equipment Replacement/Upgrade	\$10,000	\$0	100	100	\$10,000	\$0
				SubTotal	\$151,000	\$26,360				
				TOTALS	\$419,000	\$171,047	100	72	\$396,000	\$148,719
				PROJECT FORECAST REVISED						
1C - Completed				<i>Baseline projects with revised forecast, budget increases (indicated by shaded box)</i>						
PC - Partially completed				Baseline projects to be deferred (indicated in strikethru)						
				New projects added (indicated in bold)						
				<i>Prior year projects carried over indicated in italics</i>						

FY10_11 IMPROVEMENT PROJECTS

ID	Task Name	Start	Finish	% Complt	1st Quarter												2nd Quarter												3rd Quarter												4th Quarter											
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
1	1 A PIPELINE REPLACEMENTS/ADDITIONS	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
2	1B MAIN/PIPELINE ADDITIONS	Mon 11/1/10	Tue 3/1/11	100%	[Progress bar: 100% complete]																																															
3	1B1 Bel Marin Keys Looping	Mon 11/1/10	Tue 3/1/11	100%	[Progress bar: 100% complete]																																															
4	1C PB SERVICE LINE REPLACEMENTS	Mon 8/2/10	Wed 6/1/11	100%	[Progress bar: 100% complete]																																															
5	1C1 Holstrom Cir/Jan Way	Mon 8/2/10	Mon 11/1/10	100%	[Progress bar: 100% complete]																																															
6	1C2 San Domingo Way	Fri 10/1/10	Tue 2/1/11	100%	[Progress bar: 100% complete]																																															
7	1C3 Sanchez Way	Wed 12/1/10	Wed 6/1/11	100%	[Progress bar: 100% complete]																																															
8	1D RELOCATIONS TO SYNC W/CITY & COUNTY CIP	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
9	1D1 City Paving Coordination (Measure B)	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
10	2 SYSTEM IMPROVEMENTS	Thu 7/1/10	Thu 6/30/11	97%	[Progress bar: 97% complete]																																															
11	2A Sampling Stations	Wed 12/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
12	2B System & Tank Cathodic Protection Maint/Upgrade	Mon 1/3/11	Mon 5/30/11	75%	[Progress bar: 75% complete]																																															
13	2C RTU Upgrades	Thu 7/1/10	Thu 3/31/11	100%	[Progress bar: 100% complete]																																															
14	2D Emergency Power Connections	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
15	2E BMK Cross-Connect Upgrades	Fri 10/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
16	3 BUILDING, YARD, STP IMPROVEMENTS	Thu 7/1/10	Thu 6/30/11	74%	[Progress bar: 74% complete]																																															
17	3A ADMIN BUILDING	Thu 7/1/10	Thu 6/30/11	75%	[Progress bar: 75% complete]																																															
18	3A1 Admin/Office/Lab/Yard Remodel Design DEFERRED	Mon 2/28/11	Thu 6/30/11	0%	[Progress bar: 0% complete]																																															
19	3A2 Other Admin Bldg Improvements	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
20	3B CORP YARD/WAREHOUSE/CONSTRUCTION OFFICE	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
21	3B1 Other Yard Improvements	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
22	3C STAFFORD TREATMENT PLANT	Thu 7/1/10	Thu 6/30/11	67%	[Progress bar: 67% complete]																																															
23	3C1a Watershed Erosion Control - Straw Project	Mon 8/2/10	Wed 12/15/10	100%	[Progress bar: 100% complete]																																															
24	3C1b Watershed Erosion Control - Dairy Nutrient Containment	Thu 7/1/10	Tue 5/3/11	20%	[Progress bar: 20% complete]																																															
25	3C2 Solar Panel Installation DEFERRED	Mon 1/3/11	Thu 6/30/11	0%	[Progress bar: 0% complete]																																															
26	3C4 Leveroni Creek Bank Repair - Permits	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															
27	3C5 Lake Sediment Survey/Dredging Specs	Thu 7/1/10	Thu 6/30/11	100%	[Progress bar: 100% complete]																																															

Date: Fri 8/12/11

NMWD

Engineering/non job issues/MIS project files/FY10-11


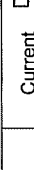

PROJECT STATUS AS OF: June 30, 2011

Page 1

FY10_11 IMPROVEMENT PROJECTS

ID	Task Name	Start	Finish	% Complet	1st Quarter			2nd Quarter			3rd Quarter			4th Quarter		
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
28	3C6 Disinfection Building Roof Replacement	Thu 7/1/10	Thu 9/30/10	100%	█	█	█									
29	3C7 Replace T1 Line from STP DEFERRED	Thu 3/31/11	Thu 6/30/11	0%												
30	3C8 Dam Concrete Apron Repairs	Fri 10/1/10	Fri 12/31/10	100%	█	█	█									
31	4 STORAGE TANKS/PUMP STATIONS	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
32	4A CONSTRUCTION	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
33	4A1 Crest Tank #2	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
34	4B REHABILITATION	Thu 7/1/10	Thu 6/30/11	15%												
35	4B1 Lynwood PS Motor Control Center	Thu 7/1/10	Thu 3/31/11	15%												
36	4C Pacheco Tank C-12 Mixing System	Thu 7/1/10	Thu 6/30/11	15%												
37	5 WATER CONSERVATION	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
38	5A Residential	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
39	5A Residential	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
40	5B Commerical	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
41	5C Public Outreach/Information	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
42	5D Large Landscape	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
43	6 PRELIMINARY PROJECT ENGINEERING & STUDY	Thu 7/1/10	Thu 6/30/11	84%	█	█	█									
44	6A Facility Map Database	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
45	6B STP Solids Disposal Study	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
46	6D Aqueduct Relocation - Hwy 101 Widening	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
47	6H Urban Water Management Plan	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
48	6I Local Water Supply Enhancement Study - DEFERRED	Fri 10/1/10	Thu 6/30/11	0%												
49	7 RECYCLED WATER	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
50	7A NBWRA Grant Outreach	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
51	7B Reservoir Hill Tank Property Transfer	Thu 7/1/10	Mon 2/28/11	100%	█	█	█									
52	7C RW Expansion to North Area	Thu 7/1/10	Thu 6/30/11	100%	█	█	█									
53	8 WEST MARIN WATER SYSTEM IMPROVEMENTS	Thu 7/1/10	Thu 6/30/11	42%	█	█	█									
54	SYSTEM IMPROVEMENTS	Thu 7/1/10	Thu 6/30/11	42%	█	█	█									

Date: Fri 8/12/11

Current  Baseline  Progress 



NIMWD

FY'10_11 IMPROVEMENT PROJECTS

ID	Task Name	Start	Finish	% Complt	1st Quarter			2nd Quarter			3rd Quarter			4th Quarter				
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun		
55	8A Tank Seismic Upgrades	Thu 7/1/10	Thu 6/30/11	10%	█													
56	8B TP Solids Handling & Land Acquisition	Thu 7/1/10	Thu 6/30/11	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
57	8C Cable Connection to TP - DEFERRED	Fri 4/1/11	Thu 6/30/11	0%														
58	8D Replace PRE Tank #4A - DEFERRED	Fri 10/1/10	Thu 6/30/11	0%														
59	8E Replace Retaining Wall at PRE 2	Wed 9/1/10	Wed 12/1/10	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
60	SPECIAL PROJECTS/STUDIES	Thu 7/1/10	Thu 6/30/11	63%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
61	8G Water Conservation Program	Thu 7/1/10	Thu 6/30/11	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
62	8H Water System Master Plan Update - DEFERRED	Wed 12/1/10	Thu 6/30/11	0%														
63	9 OCEANA MARIN SEWER SYSTEM	Thu 7/1/10	Thu 6/30/11	73%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
64	9A Infiltration Study & Repair	Thu 3/31/11	Thu 6/30/11	0%														
65	9B Oceana Marin Remote Alarms	Fri 10/1/10	Thu 6/30/11	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
66	9C Replace Siphon Dosage Tank	Tue 2/1/11	Thu 6/30/11	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█
67	9D Cross Country Sewer Line Rehab	Mon 11/1/10	Thu 6/30/11	12%	█													
68	9E Equipment Replacement/Upgrade	Thu 7/1/10	Thu 6/30/11	100%	█	█	█	█	█	█	█	█	█	█	█	█	█	█

Date: Fri 8/12/11



NMWD

Current



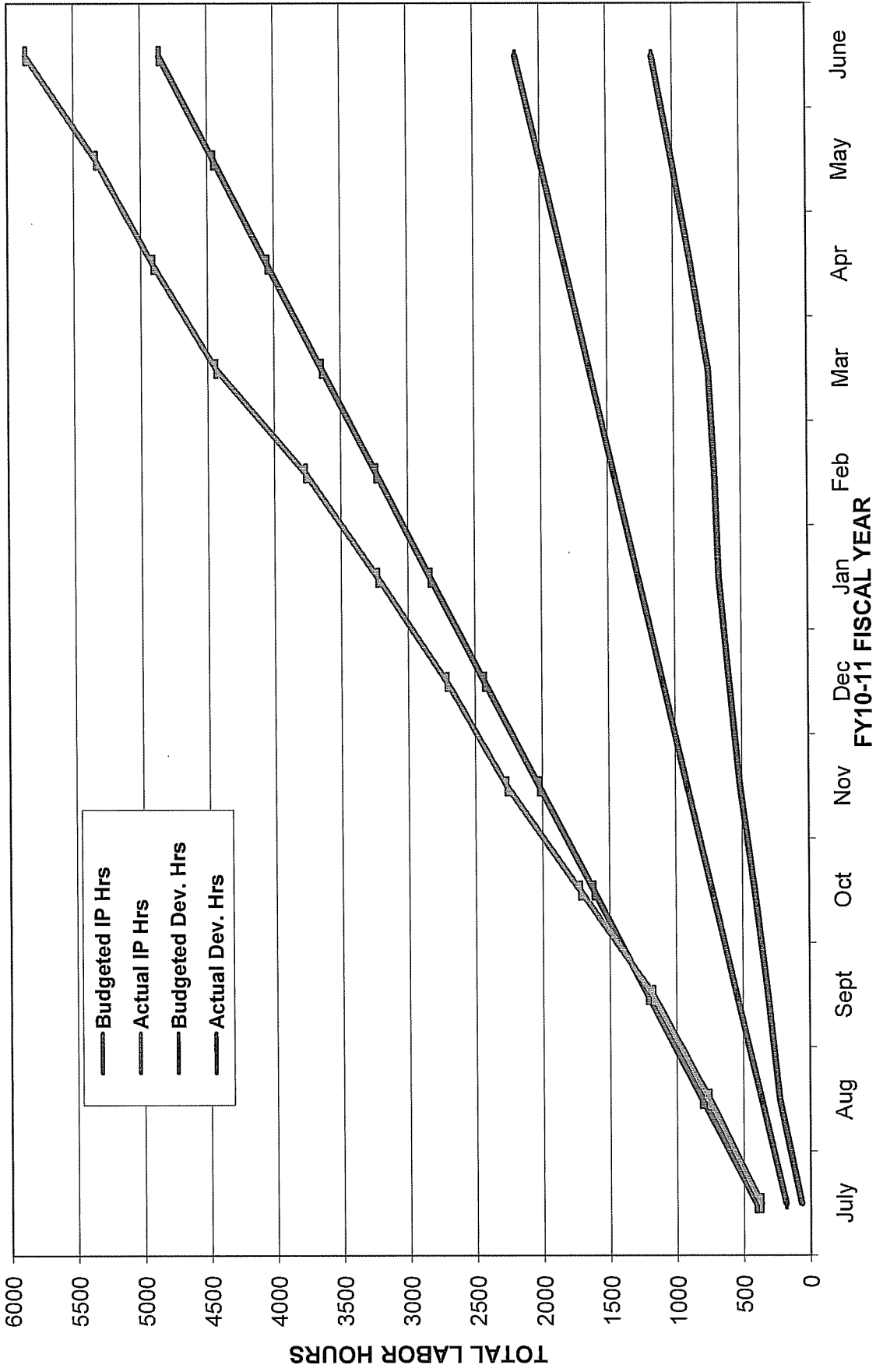
Baseline



Progress



ENGR. DEPT DEVELOPER & DISTRICT (IP) PROJECTS



9

MEMORANDUM

To: Board of Directors
From: Robert Clark, Operations / Maintenance Superintendent
Subject: FY 11 Operations /Maintenance – Year End Report
X:\MAINT SUP\2011\BOD\Q4 10-11 O&M Update.doc

August 12, 2011



RECOMMENDED ACTION: Information
FINANCIAL IMPACT: None

Operations Summary

Over this past year the Distribution / Treatment group staffing level was reduced due to the retirement of Jonathan Van Bourg in June 2010 and in December, the departure of John Young (hired by Marin Municipal). To say the least, the group has been running lean this year. As a whole staff have performed remarkably; there has been some added stress and there have been some tasks that have been deferred, but the Stafford Treatment Plant has produced well and the distribution system has held up. We have accumulated a back log of maintenance tasks to be performed this winter after the plant shuts down in December and the recent hire of a temporary operator will help accomplish these tasks.

Stafford Production

- The production season started early again this year in order to take advantage of spring runoff. Startup began the first week of April and we were able to average 3.3 mgd because of an agreement with the Novato Sanitary District to temporarily modify the STP discharge limits. Full production continued through the period producing 1070 AF for the period, 261 AF more than the same period the prior year. The plant average production was slightly down at 3.2 mgd with three primary operators working rotating shifts to cover approximately 16 hours a day operation.
- Lake water quality is much improved this year due primarily to the increased reservoir spillover and natural flushing of the lake that the late winter and spring rains provided. This has contributed to improved filter runs and overall treatment plant efficiencies.
- The Granular Activated Carbon (GAC) filter beds 3 and 4 were replaced with new media in June. The previous year's modifications to the supernatant discharge, tower gate operation and chlorine dioxide dosing continue to improve GAC influent water quality, but the increased production volumes have leveled the impact on the GAC over the past few years.

Replacement of two GAC filter beds looks to be an annual event.

- Stafford Lake Park has installed a temporary fence to keep the goose population down leading to a reduction in excrement accumulation on the park lawns. This should help in next winter's nutrient reduction efforts.

Novato Water system Flows

- Novato consumption was slightly up from a year ago but remained down from a five-year average due primarily to the cool wet spring weather. Average production during the period was 8.5 mgd with a peak day of 13.8 mgd.
- Improved Stafford Treatment Plant chlorine residual and Sonoma County Water Agency increased chlorine booster doses have contributed to a better overall Novato distribution system chlorine residual resulting in fewer tank chlorine boost requirements.
- Recycled water production for the period was 19.6 mg, still below the average production for the past few years for this same period. This reduction is a result of the Stone Tree Golf Course not needing the water again until April.

West Marin System Flows, Demands and Storage

- West Marin consumption, a bit higher than last year, is still trending down from a five-year average, as a result of cooler weather and a continued customer conservation response. Average production was 215,020 gallons per day with a peak day of 386,600 gallons.
- Production at the Point Reyes wells began to show signs of reduced production flows during the period. Staff began to look into the causes and effects of this issue and will have results and a plan to move forward in the coming months.

Oceana Marin

- During the period, force main pump flow has averaged 16,900 gallons per day with a peak on Memorial Day of 36,200 gallons. The total discharge to the irrigation field is slightly up but consistent with the previous years, leaving a freeboard of 5.2 feet at the end of June.
- Phillips and Associates continue to perform the Oceana Marin daily operations and maintenance tasks. However, there have been several issues during the period that staff has been working with the Phillips field staff on and will continue to do so over the next few months.

Maintenance Summary

Maintenance staff has been consistent over the past year with temporary help coming in to help with the spring clean up and summer backflow program activities. Jim Diggs retired after 25 years of service on April 30, 2011. Eric Kurfirst earned certification as a Cross Connection Specialist and has taken on more responsibilities for the backflow program after Jim Diggs' retirement. Joe Cilia has received a second certification for pesticide applicator to address the aquatic pesticides as our back up to the treatment plant staff. Kent LeBrun received re-certification for nine of his seventeen areas of certification in the Automotive Service Excellence (ASE) certification program.

Electrical Mechanical

- Staff completed emergency generator power connections to the Cherryhill, School road; Eagle drive and Davies pump stations.
- Staff completed an audit of the Crest Tank antenna use, removed five unused antenna and relocated four of the antennas to the new Tank.
- Staff assisted Weeks Drilling Inc. on the Point Reyes Well inspection and operational evaluations, performing a draw down test, pump removal and well inspection.

Cross Connection Control

- Staff transitioned the Cross Connection Control (CCC) program tasks after the retirement of Jim Diggs, in a continued effort to make improvements to the inspection, testing, repair and documentation processes.

Building and Grounds


- Staff completed the Oceana Marin siphon dosing tank rehabilitation with an internal clean out and an external clean up and recoat with an epoxy paint typical of our new water tank coatings.
- The Crest Tank irrigation and landscape plantings were completed by staff during the period on time and under budget.
- The large tank and treatment plant lots had weeds removed in April and needed a second cutting in early June due to spring rains. Staff again hired two summer temporary employees to help out with the extra work this year.

Fleet Operations

- Staff coordinated the annual crane and hoist inspections, all systems passed with the exception of the mobile crane on truck #10.
- The California Highway Patrol performed an audit of the Biennial Inspection of Terminals (BIT) Program, inspecting the past three years of our 90 day inspection and maintenance records. Our program passed with excellent results and no findings.
- The Environmental Protection Agency performed a field audit of our heavy duty diesel vehicle emissions smoke testing program. They reviewed the past three years of test and maintenance records and passed us with satisfactory findings.
- Major overhaul efforts included the hydraulic pump systems on the Bobcat and the older backhoe along with the rear axel of dump truck #5.

10

MEMORANDUM

To: Board of Directors
From: Pablo Ramudo, Water Quality Supervisor 
Subject: Fourth Quarter FY 10/11 – Water Quality Report
P:\LAB\WQ Supv\WQ Reports\4th Qtr FY11\WQ Rpt.doc

August 12, 2011

RECOMMENDED ACTION: Information
FINANCIAL IMPACT: \$0

The water served to the communities of Novato and Point Reyes met federal and state primary and secondary water quality standards during the fourth quarter of fiscal year 2010-2011.

Following is a review of the activities and water quality issues in regards to:

- Source Water
- Treatment Performance
- Distribution System Water Quality
- Recycled Water

NOVATO SYSTEM

Source Water: Stafford Lake

Stafford Lake water was used as a source of drinking water throughout the 4th quarter of FY 2011. Water quality was monitored on a weekly basis throughout the quarter for chemical and mineral components as well as microbiological activity.

Algae from the raw water intake were identified and enumerated. High numbers of algae were observed throughout the quarter and species diversity was very high. Seventeen species were observed in appreciable numbers while seven dominant species had significant blooms. These were the blue-greens *Anabaena*, *Aphanizomenon*, the diatom *Stephanodiscus*, and the green algae *Eudorina*, *Pediastrum*, *Coelastrum*, and *Tribonema*.

Total organic carbon in the lake water was down approximately 15% from the same period last year.

Treatment Performance: Stafford Treatment Plant

Total organic carbon (TOC) removal ranged from 55 to 56%, well above the required 35% throughout the quarter. Operators performed most of this reduction through the plant's enhanced coagulation and filtration, while a smaller portion of the TOC was removed by the granular activated charcoal (GAC) filters. The TOC concentration in the finished water throughout the quarter ranged from 2.2 to 2.5 mg/L, close to our goal of 2.0 mg/L.

Treatment Performance: Stafford Treatment Plant (continued)

Several complaints of adverse taste and odor in the distribution system prompted three actions in mitigation. First, the level of raw water intake was lowered in order to use water that contained less algae and algae products. Third, the flow through the plant was slowed to allow more time for taste and odor compounds to be removed. Lastly, the GAC in two of the four filter cells was replaced the week of June 20th after it became clear the capacity of the carbon to remove taste and odor compounds had been exhausted. Following the replacement of carbon, taste and odor of the treated water returned to normal.

Distribution System: Novato

There were no coliform positive samples this quarter. Chlorine residual concentrations throughout our distribution system were adequate. Disinfection byproducts were low to moderate for the quarter and within standards of the Stage 2 Disinfection By-Product Rule.

Several taste and odor complaints were received from areas served by Stafford Treatment Plant water. These complaints were attributed to algae which produce taste and odor compounds and a decline in GAC capacity.

POINT REYES SYSTEM

Source Water: Coast Guard Wells

Raw water quality was good throughout the quarter. Water quality parameters affected by salt water intrusion fell slightly throughout the quarter. The sodium concentration ranged from 38 to 50 mg/L, chloride ranged from 17 to 31 mg/L, and hardness ranged from 68-86 mg/L.

The recent decrease in capacity from the Coast Guard wells that has affected treatment and pumping operations has not translated to any obvious affects to water quality. It does make us more vulnerable to salinity intrusion as we have lost the ability to conduct our tide avoidance pumping procedure.

1

1

DISBURSEMENTS - DATED AUGUST 3, 2011

Date Prepared: 8/2/11

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
1	Advanced Reproduction Center	Plans & Specs for Recycled Water North Segment 3 Project (8 sets)	\$645.36
2	American Family Life Ins	July Employee Contrib for Accident, Disability & Cancer Ins	3,471.90
3	Athens Administrators	July Admin Fee	1,000.00
4	AT&T Mobility	Cellular Charges: Monthly (\$448) & Airtime (\$24) (15)	471.46
5	Bacon, Steven	Novato "Toilet Rebate" Program	75.00
6	Baker, Jack	July Director Fee	100.00
7	Baker-Baez, Janna	Novato "Washer Rebate" Program	50.00
8	Basic Chemical Solutions	Sodium Hypochlorite (1,000 gals)	3,615.69
9	Bender, Matthew	CA Gov't Codes Updates	335.20
10		Cafeteria Plan - Uninsured Medical	15.00
11	Business Card	Temperature Sensor for SCADA System (\$84), Ref Fee: Water Distribution Sys Operation & Maint Course & Manual (Sjoblom) (\$109), Lantern Battery (Eng) (\$17), Internet Pynt Gateway Fee (\$102), Reg Fee: ACWA 2011 Regulatory Summit (Ramudo) (\$225), Display Ad: RW North Svc Area Seg 3 Notice Inviting Bids (\$590), Request for Qualifications Advertisement-RW South Expansion Project (\$52), Const Management (\$65) & Reg Fee: ACWA Fall Conference (De Gabriele) (\$635)	1,879.41
12	California Dept of Fish & Game	Application Fee for Recycled Water Expansion South Segment	840.25
13	California State Disbursement	Wage Assignment Order (3)	1,478.50
14	Castillo, Patricia	Novato "Toilet Rebate" Program	150.00

*Prepaid

Seq	Payable To	For	Amount
15	CDW-Government	Backup CD/DVD Drive (3) (Stock)	81.44
16	Chung, Dennis	Refund Alternative Compliance Reg 15 Deposit	315.00
17	Connolly, Gail	Novato "Cash for Grass" Program	617.00
18	Costello, Michael	Novato "Washer Rebate" Program	50.00
19	CSW/Stuber-Stroeh Engineering	Prog Pymt #5: Aqueduct Energy Efficiency Project (Balance Remaining on Contract \$8,702), Consulting Services: So Novato Blvd Main Rehabilitation (\$3,672), Hamilton School Pipe Location (\$5,940) (Balance Remaining on Contract \$15,218) & Prog Pymt #5: Reservoir Hill Tank Rehabilitation (Balance Remaining on Contract \$10,725)	23,816.75
20	Dunn, Robert & Kahn, Georgia	Novato "Washer Rebate" Program	50.00
21	Elliott, Louise	Novato "Washer Rebate" Program	75.00
22	Environmental Science Assoc	Prog Pymt #8: NMWD - SRF Environmental Support Services-North (Balance Remaining on Contract \$20,827)	716.70
23	Fraites, Rick	July Director's Fee (\$200) & North Bay Watershed Assoc Meeting - 7/8/11 (\$100)	300.00
24	Grady, Ken	Membranes & Electrolytes for Chlorine Analyzer @ RWF	104.04
25	Grainger	Anti-Seize Compound (24 8oz) (\$367), Hand Scratch Brush (20) (\$43) & Reciprocating Saw	612.28
26		Cafeteria Plan: Childcare Reimbursement	208.33
27	Hach	Annual Service Contract for Hach Equipment @ STP & Thorsson	11,230.00
28	Harrington Industrial Plastics	2" PVC Tees (3) (\$57), 2" Ells (2), 2" Couplings (4) (\$43) & 2" Bushings	152.09
29	Kem, Noeung	Novato "Washer Rebate" Program	75.00
30		Vision Reimbursement & Cafeteria Plan: Unreimbursed Medical Reimbursement	435.00
31	Lambert, Eric	Refund Alternative Compliance Reg 15 Deposit	315.00
32	Limeta, Aquileo	Novato "Washer Rebate" Program	50.00

*Prepaid

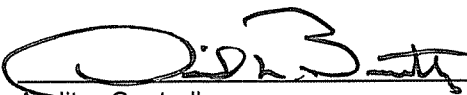
Seq	Payable To	For	Amount
33	Lincoln Life	Deferred Compensation PPE 7/31	9,384.83
34		Cafeteria Plan: Childcare Reimbursement	416.66
35	Magid, Sandy	Novato "Washer Rebate" Program	75.00
36	MCC Control Systems	Programming Modifications for STP PLC's (Balance Remaining on Contract \$1,076)	1,150.00
37	McLellan, WK	Misc Paving: Novato Area (132 S.F.)	1,848.00
38	McLaughlin, L.	Novato "Washer Rebate" Program	75.00
39		Wage Assignment Order	284.00
40	Murphy, John & Laura	Novato "Washer Rebate" Program	50.00
41	National Deferred	Deferred Compensation PPE 7/31	750.00
42	Novato Police Dept	Telephone Answering Service (May-July)	600.00
43	NTU Technologies	Polymer (47,970 lbs)	28,302.30
44	Obert, Jeri	Novato "Washer Rebate" Program	50.00
45	Office Depot Business Service	Quarterly Office Supply Order: Envelopes (200), Reg Tap (10), Alphabetic Files (10), Walnut Frame, Sheet Protectors (100), Red Stamp Pad, Pens (98), Post-it Notes (36), Scissors (2), Banker Boxes (12), Chair Mat (\$33), Labels (1002), X-Acto Basic Knife Set (2) (\$34), X-Acto Knives (2), Document Holder (\$62), Memo Pads (9), Binder Clips (120), Paper Cups (1200), Staples, Scotch Tape (20), Report Covers (20), Calculator Tape (24), Highlighters (12), Footrest, Monitor Riser (3), Wire File, Binders (5), Pencils (6), Lead, 3-Hole Punch & Dividers (62)	610.42
46	O'Hara, Jill	Novato "Toilet Rebate" Program	225.00
47	Olson, Elaine	Novato "Washer Rebate" Program	75.00
48	Pace Supply	Tapping Sleeve (\$662), Nipple, Spring Check Valve (2) (\$276), Swing Check Valves (2) (\$98), Gate Valves (2) (\$66), Flanges (2) (\$81), Meter Boxes (9) (\$299), Meter Lids (7) (\$232), PVC Pipe (60') (\$254) & Meter Lid Bolts (8)	1,998.23

Seq	Payable To	For	Amount
49	Pacific Coast Cutters	Saw Cut @ Rowland & So Novato Blvd (\$1,078) & Drill Concrete Manhole @ Zandra Place (\$269)	1,347.50
50	Pape Material Handling	Pump Drive Belt (\$66), Oil Filters (2) (\$73) & Oil (25 gals) (\$461)	600.53
51	PERS Retirement System	Additional Pension Contribution PPE 7/15	4,608.23
52	PERS Health Benefits	Aug Health Insurance Premium (Employees \$46,486, Retirees \$10,462 & Employee Contrib \$6,943)	63,891.46
53	Petterle, Stephen	July Director's Fee	100.00
54	Regional Water Quality Control	Application Fee for 401 Certification (RW Expansion South)	2,016.00
55	Rieger, Waldemar	Novato "Washer Rebate" Program	75.00
56	Roberts, Renee	Reimbursement for Mailing Retirement Documents (Diggs)	36.93
57		Cafeteria Plan - Uninsured Medical Reimbursement & Child Care Reimbursement	711.75
58	Rodoni, Dennis	July Director's Fee	200.00
59	R & S Erection of San Francisco	Surge Arrestor for Automatic Gate (STP)	124.27
60	Ryan, Noel	Novato "Washer Rebate" Program	75.00
61	Rytter, Verena	Novato "Toilet Rebate" Program	63.00
62	Schoonover, John	July Director's Fee Less Deferred	150.00
63	Shirrell Consulting Services	August Dental Insurance Administration Fee	293.80
64	Sierra Chemical	Chlorine (2 tons)	1,013.33
65	Skowronek, Frances	Novato "Toilet Rebate" Program	75.00
66	SMART Real Estate	Application, Associated Materials & Plans for RW Expansion South Project	300.00
67	Staples Advantage	Desk Calendar, Return Address Labels (2,000) & Write-On Dividers (40)	34.19
68	Stempel, Susan & Gregory	Novato "Washer Rebate" Program	75.00
69	Strader, Barbara	Novato "Landscape Efficiency Rebate" Program	134.28

*Prepaid

Seq	Payable To	For	Amount
70	Tarasoff, Barbara	Novato "Washer Rebate" Program	50.00
71	Thornton, Peter	Novato "Washer Rebate" Program	50.00
72	United Parcel Service	Delivery Service: Return Locking Hydrant Caps, Plans & Specs for RW North Project & Urban Water Management Plan	122.48
73	USA BlueBook	Sample Collector for Sludge Thickener (\$148) & Anodes (2) (\$139) (STP)	287.93
74	Van Den Toorn, Cattarina	Novato "Toilet Rebate" Program	75.00
75	Vantage Point Consulting	Perform a Review of Tank Coating Results Performed by Paso Robles Tank	585.00
76	VWR International	Titrant (1 gal) (\$56) & Buffer Solution (\$147) (Lab)	203.08
77	Winzer Corporation	Nuts (50), Washers (100), Grinding Disks (60) (\$84), Floor Sweeps (6) (\$110) & Wire Ties (25)	348.82
78	Wright, Walter	Novato "Washer Rebate" Program	75.00
79	Young, Katie	Reimbursement for Mileage & Toll for Facebook Marketing Seminar	57.07
TOTAL DISBURSEMENTS			<u>\$177,005.49</u>

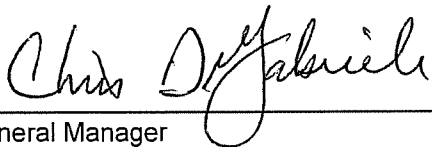
The foregoing payroll and accounts payable vouchers totaling \$177,005.49 are hereby approved and authorized for payment.



Auditor-Controller

Date

8/2/11



General Manager

Date

8/2/2011

NORTH MARIN WATER DISTRICT CHECK REQUEST

(Check Request form to be used only when payee cannot provide an invoice or statement)

PAYEE: FRAITES, RICK 50 FORREST RD NOVATO, CA 94947	DATE 7/13/11 TOTAL 100.00
---------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

PURPOSE:


CHARGE TO:

DISPOSITION OF CHECK

- MAIL TO PAYEE
- HOLD FOR
- OTHER

REQUESTED BY _____

APPROVED TO PAY BY _____

Prepared by <i>msd</i>	Accounting Review	POST DATE <i>7/11</i>	Vendor No. FRAI01	 NORTH MARIN WATER DISTRICT
---------------------------	-------------------	--------------------------	----------------------	---------------------------------------------------------------------------------------------------------------------

Invoice Number	Invoice Date	Invoice Amount
<i>CR 0719 11</i>	<i>7/13/11</i>	<i>100.00</i>

NMWD Comment

*North Bay Water Users Assoc Meeting - 7/8 (*10)*

Job Number	GL Account	Amount
	56001.01.11	<i>100.00</i>
TOTAL		<i>100.00</i>

DISBURSEMENTS - DATED AUGUST 10, 2011

Date Prepared: 8/9/11

The following demands made against the District are listed for approval and authorization for payment in accordance with Section 31302 of the California Water Code, being a part of the California Water District Law:

Seq	Payable To	For	Amount
P/R*	Employees	Net Payroll PPE 7/31	\$119,789.28
EFT*	US Bank	Federal & FICA Taxes PPE 7/31	44,755.43
1*	North Marin Water District	Transfer from Bank of the West to US Bank	140,000.00
2	Able Tire & Brake	Tires (6) ('91 5 yd Dump Truck - \$1075 & '10 F150 - \$883), Tire Repair (\$22)	1,980.10
3	Athens Administrators	August Worker's Comp Admin Fee	1,000.00
4	Bastogne	Refund Overpayment on Closed Account	37.63
5	Bay Area Barricade Service	36" Flagger Symbol (3), 36" Men Working Symbol (3)	205.07
6	Bergeson, Edythe	Novato "Washer Rebate" Program	50.00
7	Bold & Polisner	June Legal Services: Aqueduct Reloc-Seg B1 (\$74), Aqueduct Reloc-Non-Reimb(\$240), Lagunitas Water Rights (\$468), RW Expansion North (\$240), RW Expansion So (\$92), Sewer Rate Increase (\$388), Stafford Lake Basin Plan Designation (\$58) & Stone Tree Golf Water Service Agreement (\$555)	2,117.50
8	Borges & Mahoney	pH Probe (STP)	325.08
9	State of California	State Tax & SDI PPE 7/31	8,984.55
10	HSBC Business Solutions	Coffee (\$93) & Coffee Supplies (\$36)	128.85
11	Cummings Trucking	Rock (48 yds)	1,432.49
12	Curry Discount	Quarterly Toner Supply	1,262.08
13	De Gabriele, Chris	Vision Reimbursement	315.24
14	Friedman Brothers	18V Battery (6)	385.56
15	Golden Gate Petroleum	Gasoline (\$3.87/gal) & Diesel (\$4.04/gal)	4,305.24

Seq	Payable To	For	Amount
16		Cafeteria Plan-Uninsured Medical Reimbursement	60.00
17	Groeniger	Vault Lids (2) & Bushings (2)	2,640.76
18	IDI-Dupont	Sodium Chlorite (30,100 lbs)	19,173.70
19	Kemira Water Solutions	Ferric Chloride (9.11 tons)	6,737.57
20	Marin County Tax Collector	LAFCO Expense Allocation FY 11/12 (Budget \$6,164)	6,093.00
21	Marin Landscape Materials	Concrete (62 sacks) & Crushed Rock (6 CY)	641.90
22	McNeil Benefits Insurance	Aug Group Life Ins Premium	666.06
23	MSC Industrial Supply	Process Sample Pump (STP) (2)	574.01
24	North Marin Auto Parts	Oil Filters (10) (\$205), Electrical Switch, Spark Plugs (9) (\$113), Motor Oil (14 qts) (\$53), Hose & Hose Ends (\$28), Fan Belt (\$36), Radiator Hoses (2) (\$42), Water Pump (\$40), Socket (\$27), Hydrant Filter (\$58), Hose Clamps (50) (\$36), Trailer Stop Lights (2)(\$13), Transmission Mount Oil Filter Cap (\$41), Rags (60 lbs) (\$163), Air Filters (2) (\$86), Hydraulic Oil (5 gal) (\$56), Oil Stabilizer (\$13), Hose Fitting (\$16), Spray Paint (3-12oz cans) (\$18), Light Plug (\$11), U-Bolts (4) (\$12), & Painting Supplies (\$67)	1,027.26
25	Novato Builders Supply	Building Supplies (\$40), & Plywood (\$537)	577.52
26	NTU Technologies	Polymer (1,800 lbs) (STP)	2,628.00
27	O'Reilly Auto Parts	Brake Cleaner (24) (\$52), Glass Cleaner, Degreaser, & Car Wash Liquid	103.26
28	Pace Supply	16" Elbow (\$555), Ells (5)(\$58), Nipples (2) (\$5), Corp Stops (10) (\$390), Copper Pipe (540') (\$1,857), Valves (6) (\$29), & Replacement Parts for Emergency Eye Wash Station (RWF) (\$336)	3,228.69
29	Pacific Coast Cutters	Sawing Services (Novato Blvd)	400.00
30	PERS Retirement System	Pension Contribution PPE 7/31	41,967.26

Seq	Payable To	For	Amount
31	Pacific Gas & Electric	Power: Bldgs/Yard (\$3,408), Rectifier Controls (\$296), Pumping (\$18,487), Treatment (\$15,289), & Other (\$121)	37,600.69
32	Pini Hardware	Brush (STP), Screwdriver Set, Adaptors (4), Ant Spray, Computer Connector, Coupler (STP), Adaptor, Network Cable Ends (STP), Drop Cloth, Vinyl Numbers, Vinegar (RWF), Light Bulbs, Broom & Sprayer Bottle	106.35
33	Roberts, Renee	Reimbursement for Algebra Academy Lunch Seminar	177.31
34	Schuler's Welding	Welding Services on RWF SS Air Lift	540.00
35	Scott's Office Equipment	Quarterly Maintenance Agreement on Eng Copier (4/16/11-7/15/11)	578.83
36	Shirrell Consulting Services	July Dental Expense	5,968.00
37	Smith, R.C.	Novato "Washer Rebate" Program	50.00
38	Underground Service Alert	Annual Membership Dues (Underground Service Alert) (Budget \$900)	865.32
39	United Parcel Service	Delivery Service: Sent Plans & Specs for RW Expansion South Project & Meter Reading Device for Repair	27.88
40	Univar	Sodium Hydroxide (25,000 lbs)	8,096.69
41	Verizon California	Telephone Charges: Leased Lines (\$825) & Minimum (\$38)	863.48
42	Verizon Wireless	July CIMIS Station Data Transfer Fee (2)	19.20
43	VWR International	Dust Masks (20) (Lab), & Chlorine Reagent	111.51
44	Wilson Bohannan	Lock Cylinders for Tank Control	70.24
45	Workforce Boots & Clothing	Safety Boots (LeBrun & Hennessy)	255.51
TOTAL DISBURSEMENTS			<u>\$468,924.10</u>

Seq Payable To For Amount

The foregoing payroll and accounts payable vouchers totaling \$122,473.46 are hereby approved and authorized for payment.

Dianne Landero 8/8/11
Auditor-Controller Date

Chris DeFabrizio 8/8/2011
General Manager Date



**NORTH MARIN
WATER DISTRICT**

999 Rush Creek Place
P.O. Box 146
Novato, CA 94948

PHONE
415.897.4133

FAX
415.892.8043

EMAIL
info@nmwd.com

WEB
www.nmwd.com

August 4, 2010

Jack Leibster
Marin County Community Development Agency
3501 Civic Center Drive, Room 308
San Rafael, CA 94903-4157

Re: North Marin Water District Comments on Local Coastal Program Amendments

Dear Mr. Leibster:

North Marin Water District (NMWD) has reviewed the June 2011 Draft Marin County Local Coastal Program Policy Amendments and Proposed Development Code Amendments. We offer the following comments to be incorporated into your proposed amendments prior to adoption by the Planning Commission and Board of Supervisors:

Marin Local Coastal Program Draft LCP Policy Amendments

1. Page 93, **C-PFS-5, Community Sewer Systems**. "Require new development within a village limit boundary to connect to a public sewer system if the sewer system is within 400 linear feet of the parcel on which the development is proposed, unless the County Health Officer finds that such connection is legally or physically impossible."

Comment: NMWD provides sewer service to the Oceana Marin development adjacent to old Dillon Beach. NMWD does provide sewer service to a handful of dwelling units (ten) within old Dillon Beach on Ocean View Avenue. Extension of sewer service to other properties within old Dillon Beach would be outside the Oceana Marin Improvement District boundaries and the cost of providing public sewer service for the old Dillon Beach community on a piecemeal basis is very expensive and would result in an unreliable, expensive and difficult to operate mixture of private and public sewer facilities. NMWD has previously identified those lots in old Dillon Beach which have an existing gravity sewer fronting the property and which may be considered for annexation by the District Board of Directors in the future in accordance with NMWD regulations (see attached map). The prescriptive "400 foot" threshold will not work in old Dillon Beach as there is not sufficient collection, treatment or disposal capacity or financing available to carry out such expansion. NMWD requests the policy apply only for those properties identified on the attached map in old Dillon Beach.

2. Page 94, **C-PFS-10, Adequate Onsite Sewage Disposal Systems for Existing Development...** "1. Require connection to a public sewer, if the property is within 400 feet of a public sewer main and it is physically and legally possible to connect to such main;"

Comment: See comment 1.

Jack Leibster
Marin County Community Development Agency
August 4, 2011
Page 2

3. Page 130, **C-PFS-19, Desalination facilities.** "Due to the Coastal Zone's unique natural resources and recreational opportunities of nationwide significance prohibit development of desalination facilities."

Comment: NMWD currently provides community water supply to Point Reyes Station, Olema, Bear Valley, Inverness Park and Paradise Ranch communities from wells adjacent to Lagunitas Creek. Due to the wells' location in the upper tidal reach of Lagunitas Creek, they are under the influence of flows in the tidal reach and subject to periodic salinity intrusion and occasional flooding. A desalination project may be needed to address the water quality concerns resulting from salinity intrusion to the wells. For these reasons we request that limited desalination be authorized in the Point Reyes community water supply if necessary to address drinking water quality requirements.

4. Additionally, we recommend that the description of NMWD water service in West Marin be updated to better reflect existing conditions. A detailed response to Kristin Drumm's request for this information provided on April 21, 2011 is included herein for your ready reference in preparing this description update.

Marin County Local Coastal Program Proposed Development Codes Amendments

5. Page 54, "**5. Community sewer systems.** New Development within a village limit boundary shall connect to a public sewer system within 400 feet of the parcel per Land Use Policy C-PFS-5, unless such connection is prohibited by the County."

Comment: See comment 1.

6. Page 55, "**18. Desalination facilities.** Due to the Coastal Zone's unique natural resources and recreational opportunities of nationwide significance, development of desalination facilities shall be prohibited."

Comment: See comment 3.

Thank you for the opportunity to comment.

Sincerely,



Chris DeGabriele
General Manager

Enclosures

CD/rr

Chris DeGabriele

From: Chris DeGabriele
Sent: Thursday, April 21, 2011 9:44 AM
To: 'Drumm, Kristin'
Subject: RE: West Marin Water Information

Kristin,

Attached is a detailed response to your information request below. I'm assuming you'll use the info for the Local Coastal Plan update for the WM communities at the base of Tomales Bay. There's more here than you likely need, but you can cut and paste as you see fit. I'd appreciate the opportunity to comment on any draft that you prepare prior to publication.

Thanks,
Chris DeGabriele

From: Drumm, Kristin [mailto:KDrumm@co.marin.ca.us]
Sent: Wednesday, April 13, 2011 3:42 PM
To: Chris DeGabriele
Subject: RE: West Marin Water Information

Hi Chris,

I apologize for my delayed response. I am interested in information for the following:

1. The number of active connections in the entire Point Reyes Water System, and for each of these communities: Point Reyes Station, Olema, and Inverness (including Paradise Ranch Estates).
2. A breakdown of connections by users per community, for example, the number of residential, commercial, agriculture, etc.
3. Are there any improvements or upgrades planned?
4. What are the projected water use demands for the next 20 years for these areas? Is there enough supply?

Thanks,
Kristin

From: Chris DeGabriele [mailto:cdegabriele@nmwd.com]
Sent: Tuesday, March 29, 2011 4:39 PM
To: Drumm, Kristin
Subject: West Marin Water Information

Hi Kristin,

I'm happy to send you a copy of the NMWD 2005 UWMP but it doesn't address our West Marin Water Improvement District because the communities served don't meet the thresholds requiring an UWMP. Give me a call to let me know what specifically you'd like to know and we'll get it for you.

Chris DeGabriele
(415)897-4133

Email Disclaimer: <http://www.co.marin.ca.us/nav/misc/EmailDisclaimer.cfm>

The communities of Point Reyes Station, Olema, Inverness Park, and Paradise Ranch Estates utilize groundwater that is pumped from two wells adjacent to Lagunitas Creek. The wells serving the West Marin distribution system are founded in the alluvial aquifer that underlies the Lagunitas Valley and operated by the North Marin Water District (NMWD). Significant aquifer recharge occurs through streambed infiltration along Lagunitas Creek. The local watershed runoff and upstream reservoir releases provide more than sufficient recharge to meet the water use demands of the West Marin service area and to maintain instream flows for fish.

Below are the numbers of active accounts today:

	Point Reyes Station	Olema	Inverness Park	Paradise Ranch Estates	Total
Agriculture	5	3	1	0	9
Commercial	61	14	3	2	80
Residential	340	28	153	154	675
Total	406	45	157	156	764

NMWD historically has relied on the Coast Guard Wells to supply water for the NMWD West Marin service area. The wells are located to the south of the NMWD Point Reyes Water Treatment Plant, which is located approximately 500 feet from the end of Commodore Webster Drive at the Point Reyes Station Coast Guard Housing Facility. Due to the wells' location in the upper tidal reach of Lagunitas Creek, they are under the influence of flows in the tidal reach of Lagunitas Creek and subject to periodic salinity intrusion and occasional flooding.

NMWD diverts water from Lagunitas Creek through a Water License and two Water Right Permits. Water License 4324B allows NMWD to divert water between May 1 and November 1 of each year at a rate not exceeding 0.67 cubic feet per second (cfs) for a maximum diversion of 148.8 acre-feet per year. The authorized points of diversion (POD) under this License include the Giacomini Ranch site (POD 1), the Coast Guard Wells (POD 2), and the Downey Well (POD 3). The License contains a number of stipulations that limit or prohibit diversion when streamflow in Lagunitas Creek falls below levels needed to protect fish and wildlife.

Water Right Permit 19724 allows diversion of 0.699 cfs (maximum of 212.7 acre-feet diverted) on a year-round basis. Water Right Permit 19725 allows a maximum diversion of 0.961 cfs (292.5 acre-feet maximum) on a year-round basis. The Permits authorize diversion from the Coast Guard Wells. Pursuant to State Water Resources Control Board Water Right Order 95-17 (WR 95-17) the water rights under these two Permits are junior rights that are not available during the summer months (July through October) of dry years. A dry year is defined as a year in which the total precipitation that occurs from October 1 through April 1 is less than 28 inches as measured at the Marin Municipal Water District's Kent precipitation gauge. Since WR 95-17 has been in place no dry years have occurred.

The NMWD Gallagher Pipeline project proposes to change POD 1 from the Giacomini Ranch site to the Gallagher Well site and includes drilling one additional well at NMWD's Gallagher Wells site and constructing a pipeline to connect the existing and new well at this well site to NMWD's Point Reyes water treatment plant. There is one existing well at the Gallagher Well site, but the well is not connected to the NMWD treatment and delivery system, and it has not been used since it was developed. The water from these wells would be used to supplement the

existing Coast Guard Wells, which are the primary water source for the Point Reyes Water Treatment Plant. The proposed project also includes construction of a new stream gauging station, demolition and abandonment of the existing NMWD Downey Well, and the change in purpose of use of existing NMWD Water Right Permit 19724 from municipal and irrigation to instream uses. A project site map is shown on Figure 1.

The Gallagher Ranch site is upstream of any flooding and tidal reaches of Lagunitas Creek. However, the existing NMWD Gallagher supply well has a limited flow capacity (170 gallons per minute) and is not connected to the West Marin distribution system. This project would increase the Gallagher Well site's capacity and integrate those wells into the District distribution system. Because the Coast Guard Wells largely have good water quality, are reliable during most months, and have ample recharge, the Coast Guard Wells will continue to be the primary source of supply.

The historic salinity intrusion problem at the Coast Guard Wells may be exacerbated by sea level rise and the National Park Service's conversion of the Giacomini Ranch to tidal wetland, which will increase salinity in portions of Lagunitas Creek. According to the Final EIS/EIR for the Giacomini Wetland Restoration Project, the Park Service will not implement the Olema Marsh portion of the restoration project until either further studies are done to determine whether that part of the restoration would increase salinity; new information is received showing that the project would not adversely pose a threat to NMWD water quality; or NMWD constructs the pipeline connecting the Gallagher Wells to the treatment plant.¹ The proposed project would satisfy the third criterion, thereby allowing the Park Service to conduct the proposed Olema Marsh restoration.

The Gallagher Well site is located on a small parcel of land (130 feet by 85 feet) owned by NMWD on property commonly called the Gallagher Ranch (14500 Point Reyes-Petaluma Road), which is located 1.3 miles northeast of Highway 1 at Point Reyes Station. Access is provided by Point Reyes-Petaluma Road. The well site is on the south bank of Lagunitas Creek, across the creek from Point Reyes-Petaluma Road near the east end of the private Gallagher Ranch bridge.

NMWD will abandon the existing Downey Well that lies within the Lagunitas Creek stream channel. This well is a hazard, causes adverse impacts to the stream and produces water with poor water quality. The well was originally constructed on the bank of the stream, but the creek has migrated and captured the wellhead, so that currently it is located in the middle of the creek. From 1994 through 2007, this well was used solely to deliver raw water to the Giacomini Ranch for irrigation.

NMWD proposes to amend Water Right License 4324B and Permit 19725 to add the Gallagher Well site as a point of diversion (Proposed POD1). NMWD is petitioning the State Water Resources Control Board (SWRCB) to change the approved points of diversion for License 4324B from the Giacomini Ranch, Coast Guard Wells, and Downey Well to the Coast Guard Wells, Downey Well site, and the Gallagher Wells.

An existing stream gauging station is located between Point Reyes-Petaluma Road and Lagunitas Creek immediately north of the Gallagher Ranch driveway. In order to gauge the streamflow downstream of the area where the existing and the new Gallagher Well would be located, the stream gauge will be relocated to a point about 1,200 feet south of the existing

¹ National Park Service, Giacomini Wetland Restoration Project: Final EIS/EIR, Response C-20, Volume 2, page 8, 2007.

Gallagher Well. This site was identified as an appropriate site by NMWD and U.S. Geological Survey (USGS) staff during a March 17, 2008 site visit. The stream gauge station meets USGS standards; it would be a very small installation measuring approximately 3 feet by 3 feet by 4 feet; it would be elevated to be above the 100-year flood elevation. It would be constructed on the east side of the creek with access from the Gallagher Ranch pasture that borders this section of the creek. It would be powered by either an electrical line from a nearby power pole or a solar cell. It would contain a telephone or cell phone connection to send data.

As allowed under California Water Code Section 1707, NMWD proposes to dedicate the water that the District can now divert under its Water Right Permit 19724 to permanent instream use. The Permit allows diversion of 212.7 acre feet of water per year (at a maximum rate of 0.699 cubic feet per second) at the Coast Guard Well site for municipal and irrigation purposes. NMWD is petitioning the State Water Resources Control Board (SWRCB) to change the place of use and purpose of use for 0.699 cubic feet per second (cfs) of water diverted from Lagunitas Creek under Water Right Permit 19724 for municipal uses in the NMWD West Marin Service Area for the purpose of preserving and enhancing wetland habitat, and also for the purpose of preserving and enhancing fish and wildlife resources in Lagunitas Creek pursuant to Water Code Section 1707. The new place of use is defined as instream flows for the protection, preservation, restoration and recovery of aquatic organisms, including but not limited to coho salmon and steelhead trout pursuant to Recovery Planning measures to be developed under the Memorandum of Understanding Among National Marine Fishery Service, California Department of Fish and Game, Army Corps of Engineers, Fish Net4C, Counties of Mendocino, Sonoma, Marin, San Mateo, Santa Cruz and Monterey and the County of Humboldt as executed on May 16, 2002.⁶

Lagunitas Creek is classified as a Flow-Regulated Mainstem River pursuant to the Policy for Maintaining Instream Flows in Northern California Coastal Streams. The above noted change petition(s) and the proposed changed point of diversion result in no additional diversion of water beyond that currently licensed (License 4324B) and permitted (Permit 19725). In fact, the petition to change the purpose of use of Permit 19724 to instream purposes reduces NMWD's cumulative authority to divert water from Lagunitas Creek to a maximum quantity of 441.3 acre feet per year. The available water supply is sufficient to meet the forecast at build-out pursuant to current County of Marin growth estimates (see forecast Attachment 1).

NMWD has made significant improvements to the West Marin Water System and has several large planned projects (Attachment 2). It's not likely the Gallagher Pipeline or Treatment Plant upgrade projects will proceed without grant or loan funding to lessen the cost impact on the small customer base.

GALLAGHER WELLS & PIPELINE PROJECT

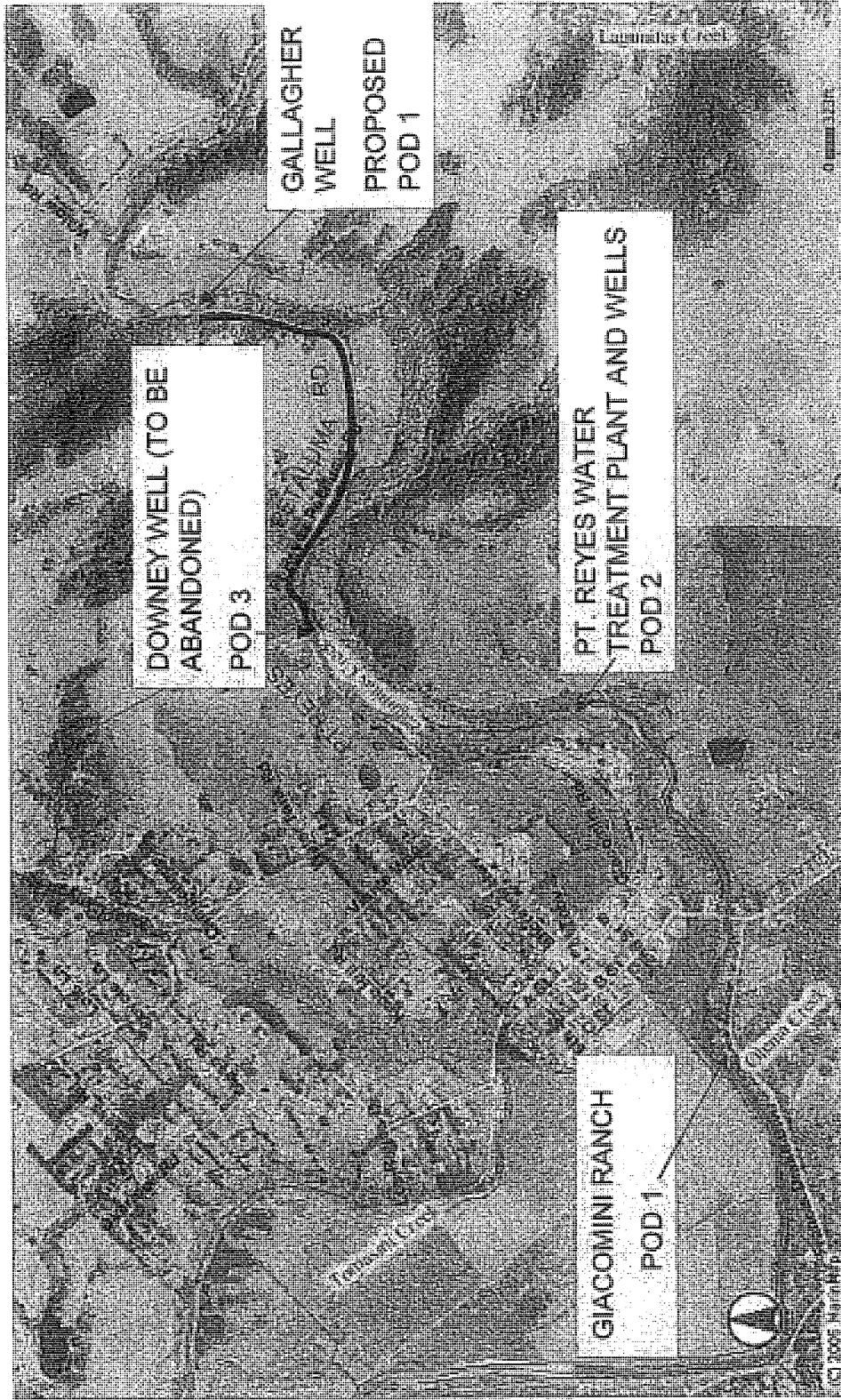


FIGURE 1

Forecast of Water Demands - Pt Reyes Water System

By: CD
 Orig: 2/26/1992 12:29
 Updated: 4/3/2007 0:00
 Last: 4/19/2011 15:12

c:\profiles\prswm 2007 Demand\new.xls
 References:
 i:\files\dlb\excel\wtr use\wrm use fy02.xls
 i:\files\cadale\spreadsheet\production\point_reyes\Point Reyes Water Production.xls

Basic Breakdown in Water Use in 2005 was (DLB spreadsheet - vtr use\wrm by type.xls)2005):

	All	AFA	Accounts
Residential	61.43%	160	693
Commercial	16.04%	47	68
Agriculture	9.90%	29	8
Government	12.63%	37	16
All	100%	293	785

Household population density of area is 2.33 according to Census 2000 (Draft Marin Countywide Plan Figure 3-58).

Therefore each person explains 26% of annual residential use per DU.

Pt Reyes Water System Statistics As of June 30, 2006:

	Pt Reyes Station	Olema	PRE	Inv Park/BV	O'side/Other	All	
System Capacity:							
Finished Water Storage, gal.	580,000	150,000	138,000	160,000	-	1,028,000	ref WMA Storage Data
Filter Plant, gpm						700	
Well #1 & Pump, operating alone						360	
Well #2 & Pump, operating alone						200	
Well #1 & #2 Operating in Tandem						530	c-limiting
Connections:							
Active						753	ref 6/06 Monthly Rpt
Inactive						41	
Total						794	
DUs:							
Active						777	ref 6/06 Monthly Rpt
Inactive						41	
Correction for Coast Guard(1)						36	
Total						854	
Sales:							
Avg Ann 2002 - 2005 (Acre Feet)						292	
Pk BkMo 1998 - 2002 (Acre Feet)						65	
In FY 2005/06:							
a/a (w/o unaccounted for)						255	
a/a/active acct						0.34	
a/a (w unaccounted for)						324	
mgd Pk BkMo						0.35	
gpd/active acct						464	
FY 2002-2006 avg:							
CCF/SF DU or EDU						121	
a/a/SF DU or EDU						0.28	
Equivalent SF Units(2):						918	
Storage per EDU:						1120	
Production:							
Unaccounted For Water as % of Sales (1997-2006 avg)						18%	
Avg Annual, Acre Feet (1997-2006 avg)						352	
Avg day, cfs (1997-2006 avg)						0.49	
Avg day, gpm (1997-2006 avg)						218	
Avg day of Pk Mo., cfs (July 2001)						0.66	
Avg day of Pk Mo., gpm (July 2001)						295	
Avg day of Pk Week, FY 2001/02, cfs						0.75	
Avg day of Pk Week, FY 2001/02, gpm						335	
Pk Mo to Avg Mo Ratio						1.4	
Pk Week to Pk Mo Ratio						1.1	

County's Estimate of Growth contained in 2001 PRS Community Plan & 2005 Draft Countywide Plan Update:

	Existing (3)	Potential (buildout, 4)	Increase DUs	Increase %
	445	44	154	158
	688	53	214	191
	243	9	60	33
	55%	21%	39%	21%
				0%
				42%

Footnotes:

- (1) Included in "Govt" in NMWD records.
 Note: There are 36 of USCG apts and 18 bachelor units currently.
 Latter are bedroom w. sink, Share bathrooms. Also mess hall.
- (2) Based on annual use of typical SF DU = 0.28 a/a.
- (3) "Existing" includes 409 Point Reyes Units (from DLB's spreadsheet\wrm cust by rate code 063006.xls) and 36 gov't dus.
 Olema, PRE, Inv Park/BV and O'side/Other also from DLB spreadsheet.
- (4) "Potential" from 2001 PRS Community Plan and 21% growth in Olema and Inv Park/BV.
 For PRE NMWD estimate as already subdivided is used.

end

Predicted Ultimate Demand:

Assumptions:

- (1) Residential will grow per County's prediction & growth will be SF type DUs.
- (2) Agriculture will decrease as result of NPS purchase of Giacomini Ranch.
- (3) Commercial and Gov't will grow and maintain their same relative relationship or share of residential. I.e. 47%
- (4) Unaccounted For Water will ultimately be: 10%
- (5) Pk Mo to Avg Mo ratio remains at: 1.4
- (6) Pk Week Mo to Pk Mo ratio remains at: 1.1
- (6) Additional Water Conservation achieved between now and buildout is limited to residential fraction and will amount to: 15%
- (7) Household Density ultimately increases from current 2.33 to: 2.5
 Associated increase in demand is: 4%

	PR Station	Olema	PRE	Inv Park/BV	All
Existing Base Demand (Avg 1997-2006):					
a/a					298
residential portion, a/a					183
New Base Demand:					
New Residential, DU's	243	9	60	33	345
Demand, a/a/DU					0.28
Demand, a/a					95
New Commercial & Gov't, a/a					45
Less Agricultural (Giacomini Ranch)					-25
Existing + New Base Demand, a/a:					382
Ultimate Demand**:					
Annual, a/a:					420
Peak Mo, cfs:					0.78
Peak Week, cfs:					0.89
Peak Week, gpm:					401

** Includes Unaccounted For Water & adjustments for increased household density and water conservation.

West Marin Long Range Improvement Project Plan

4/1/2011

Status Report

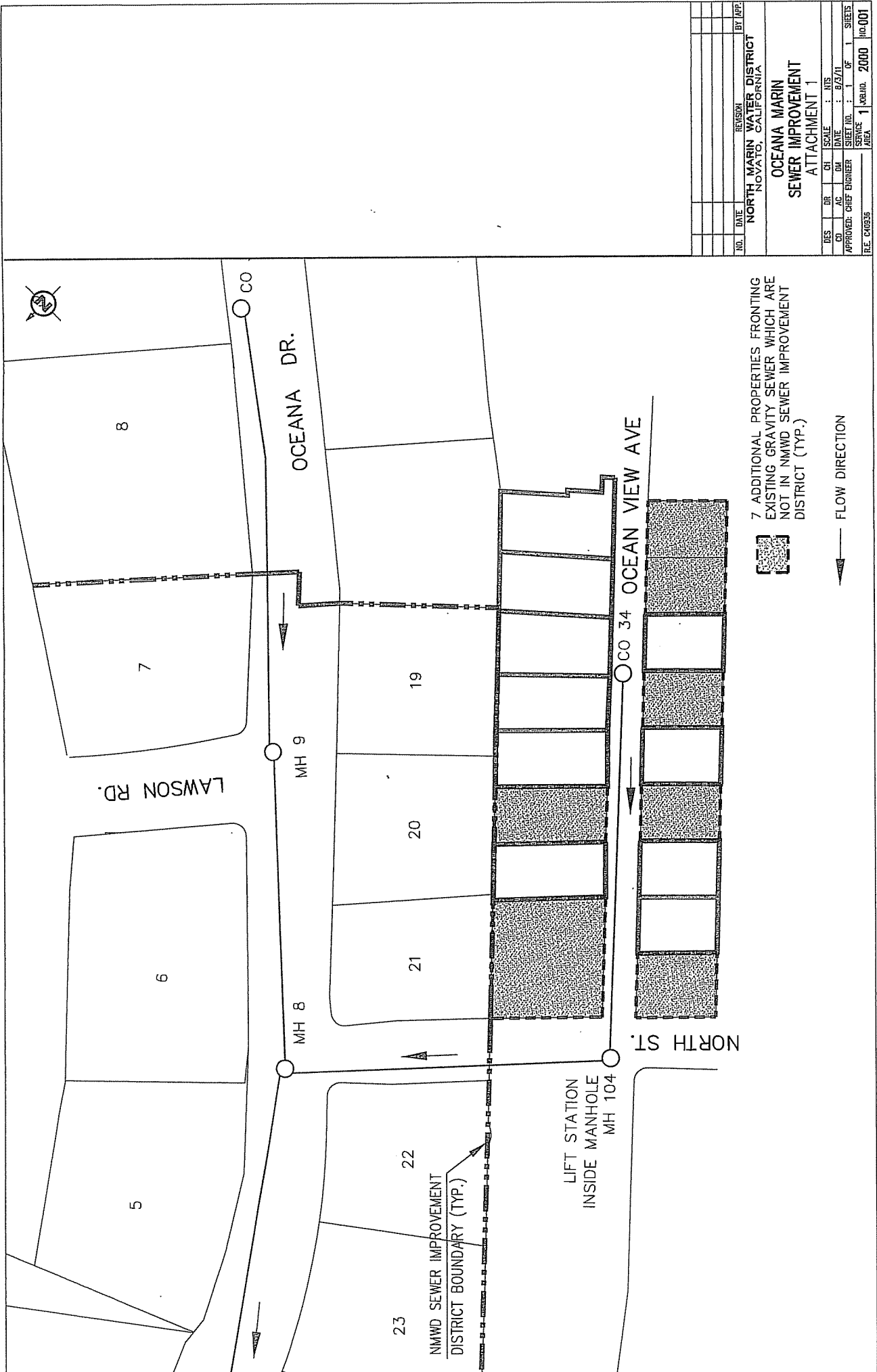
t:\gml\west marin\gallagher well\wmlripp status report 0411.xls\ripp (2)

Completed Projects

	<u>4/30/2009</u>	
1 Replace PRE Tank #3 - 25,000 gal	\$91,759	Complete
2 Install 3 Standby Booster Pumps & Controls @ PRE	159,990	Complete
3 Bear Valley Pump Station Upgrade	88,132	Complete
4 Replace Pt Reyes 100,000 gal tank w/180,000 gal	399,707	Complete
5 Replace Olema 80,000 gal tank w/150,000 gal	561,742	Complete
6 Install Parallel 8" Main on Hwy 1	180,000	Complete
7 Upgrade Inverness Park PS w/2 150 gpm pumps	157,888	Complete
8 Install Pressure Reducing Valve @ Inverness Pk PS	13,046	Complete
9 Replace 30,000 gal Inverness Park Bolted Steel Tank	164,262	Complete
10 Tank Seismic Upgrades	70,881	In Progress
	<u>\$1,887,407</u>	

Planned Projects

1 Replace PRE 25,000 gal Tank #4A w/82,000 gal	\$255,000
2 Treatment Plant Solids Handling Facility	200,000
3 Gallagher Pipeline	1,600,000
4 Treatment Plant Upgrade	1,200,000
	<u>\$3,255,000</u>



7 ADDITIONAL PROPERTIES FRONTING
EXISTING GRAVITY SEWER WHICH ARE
NOT IN NMWD SEWER IMPROVEMENT
DISTRICT (TYP.)



← FLOW DIRECTION

NO.	DATE	REASON	BY APP.
		NORTH MARIN WATER DISTRICT NOVATO, CALIFORNIA	
OCEANA MARIN SEWER IMPROVEMENT ATTACHMENT 1			
DES	DR	CH	SCALE
CD	AC	DA	DATE
APPROVED: CHIEF ENGINEER			SHEET NO. : 1 OF 1
R.E. CARBON			DATE : 6/27/11
			PROJECT NO. : 2000
			SHEET NO. : 001

Chris DeGabriele

From: Brad Sherwood [Brad.Sherwood@scwa.ca.gov]
Sent: Wednesday, August 10, 2011 8:17 AM
Subject: Sonoma County Water Agency press release: Water supply tours scheduled



Sonoma County Water Agency PRESS RELEASE

For Immediate Release
August 10, 2011

CONTACT:
Brad Sherwood
707.547.1927 (Office)
707.570.7448 (Cell)
sherwood@scwa.ca.gov

Water supply public tours scheduled

Saturday, September 17 and Saturday, October 15

(Santa Rosa, CA) The Sonoma County Water Agency (Water Agency) invites the public to attend one of two free half day tours of the Russian River water supply system. The tours are scheduled for Saturday, September 17 and Saturday, October 15, and will start at 9 a.m. and conclude at noon. Tour participants will visit Water Agency facilities that divert, pump and treat the drinking water delivered to more than 600,000 residents in portions of Sonoma and Marin counties. These facilities will include the inflatable rubber dam on the Russian River, fish ladders, infiltration ponds and groundwater pumping plants.

“Turning on the tap will never be the same after attending the Water Agency’s water supply tour,” said Water Agency Chairman Efren Carrillo. “The tour offers a behind the scenes look into how our drinking water supply relies on a unique system of reservoirs, creeks and one of the largest groundwater pumping plants in the world.”

Space on the tour is limited and will be reserved on a first-come-first-served basis. To reserve a seat, complete the online tour registration form at www.sonomacountywater.org/tours.

For more information, please contact Brad Sherwood at 707-547-1927 or sherwood@scwa.ca.gov.

###

Sonoma County Water Agency provides water supply, flood protection and sanitation services for portions of Sonoma and Marin counties. Visit us on the Web at www.sonomacountywater.org.



Mike Baccei is recognized by Novato Fire Protection District Board of Directors

FAX: Novato Advance 897-0940

FAX: IJ - 883-5458

FAX: Pt Reyes Light - 663-8458

Novato.Patch.com

August 11, 2011

Contact: David Bentley, (415) 897-4133

PRESS RELEASE

FAXED
8/11/11

North Marin Water District

For the second year in a row, the Certificate of Achievement for Excellence in Financial Reporting has been awarded to North Marin Water District by the Government Finance Officers Association of the United States and Canada (GFOA) for its comprehensive annual financial report (CAFR). The Certificate of Achievement is the highest form of recognition in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

The CAFR has been judged by an impartial panel to meet the high standards of the program including demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the CAFR.

The GFOA is a nonprofit professional association serving approximately 17,500 government finance professionals with offices in Chicago, IL and Washington, DC.



Commission hears reports on block water and pikeminnow programs at Potter Valley Project

Redwood Times

Posted: 08/10/2011 03:41:41 PM PDT

Virginia Graziani

Redwood Times

Block water releases and pikeminnow suppression were the main topics of discussion at the Eel-Russian River Commission's latest meeting, held in Ukiah on Friday, July 29.

The commission heard reports from representatives of several regulatory agencies, as well as from Pacific Gas & Electric, owners of the Potter Valley Project, and their environmental consultant.

Following several lengthy, detailed discussions, the commission took no action other than to encourage all the parties to continue their research into how to balance the needs of anadromous fish in the Eel River with the water and power needs of residents of the Russian River watershed.

Made up of representatives from Humboldt, Mendocino, and Sonoma counties, the ERRC was created as a forum for counties impacted by the Potter Valley Project, which impounds water from the Eel River in two reservoirs, Lake Pillsbury in Lake County and Van Arsdale reservoir in Mendocino County.

From Van Arsdale, Eel River water is diverted through an eight-foot in diameter tunnel 12 miles under the hills to PG&E's power station at the head of Potter Valley.

From there the water is released into the East Fork of the Russian River, where some of it is used to irrigate vineyards, orchards, and cattle ranches in Potter Valley. The majority of the water is stored in Lake Mendocino for release into the main stem of the Russian River, where it is used by municipalities and agriculture in Mendocino and Sonoma counties.

Humboldt County Supervisor Jimmy Smith, current chair of the ERRC, urged PG&E and the agencies to improve their communications, criticizing them at several points for not informing the commission and stakeholders of their decisions in a timely manner.

Representatives of the National Marine Fisheries Service and the California Department of Fish and Game defended their decision to deny Friends of the Eel River's request to release the block water last fall. PG&E is required to set aside a portion of the water stored in Lake Pillsbury for "block release" if water levels in the Eel drop so low that salmonids will have a difficult time migrating.

FOER made the request after discovering an unusually large number of chinook salmon waiting to migrate upstream near Fortuna last September. FOER hoped that a release of cold water from high in the watershed would reduce the growth of algae that might poison or suffocate the fish, as well as assisting migration.

Heavy rain began to fall early in October, enabling the fish to migrate without the release. In fact, according to the California Department of Fish and Game, a record number of chinook, more than 2,300, made it to the fish ladder at Van Arsdale.

"We were lucky we got that rain in October, otherwise thousands of fish would be dead," said Nadananda, founder of FOER. She also stated that it took a week before FOER could reach anyone with authority at NMFS or DFG because everyone was apparently on vacation.

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Smith added that he had received many inquiries from concerned citizens and asked that commission members be notified of all requests for block release so that they can answer questions from the public.

The agencies' response was that early release of the water would have triggered migration before the tributaries had enough water to support the fish. Regarding notification, Jeffrey Johns, a biologist with NMFS, replied that they responded as quickly as possible but that a requirement to notify commissioners first might slow down future responses. He agreed to make sure back-up staff were available when key staff were on vacation.

Johns also noted that NMFS had reduced the amount of block water required from 5,000 acre feet to 2,500 acre feet while increasing required return flows to the Eel from 5 cubic feet per second to 25-30 cfs.

This was news to the commission, and Smith again asked that the commissioners be notified when such changes to protocol take place.

Tom Weseloh, recently appointed to the California legislature's Joint Commission on Fisheries and Aquaculture by North Coast State Senator Wes Chesbro, disagreed with the agencies. "There are times in the fall when the pulse releases from Van Arsdale do not mimic the natural inflow of water into the river," he said, so a block release could be helpful.

He also said that block water not used in the fall should be used in the spring, to assist the downstream migration of young salmonids, called fry or smolts, and asked the agencies whether any harm could be done by a spring block release.

In a later report, Scott Downie, senior biologist supervisor at DFG in Fortuna, agreed that block water release would be more useful in the spring.

Regarding the algae, Downie said that there has never been a die-off of adult salmonids in the Eel River due to algae. The infamous 2002 die-off in the Klamath River was caused by a concentration of toxins not found in the Eel, he added.

Pikeminnow monitoring and suppression

NMFS, PG&E, and PG&E's consultant, Park Steiner of Steiner Environmental Consultants in Potter Valley,

made presentations on pikeminnow monitoring and suppression, also required by the terms of the Reasonable and Prudent Alternative (RPA).

The RPA, which was completed in 2004 after years of work by various stakeholders including the Round Valley Tribe in Covelo, established flow regimes that increased the amount of water returned to the Eel River in "pulses" that mimic natural flow changes.

The RPA also set aside block water for release from Lake Pillsbury as needed and established a pikeminnow monitoring and suppression program.

Pikeminnow are a predatory fish, especially dangerous to young steelhead that spend summers in the upper Eel and its tributaries. They were accidentally introduced into Lake Pillsbury from the Sacramento River in the late 1970s and have been largely blamed for the decline in the Eel River steelhead population over the last 30 years.

PG&E and Steiner monitor the pikeminnow both in the Van Arsdale reservoir and in the Eel River, sending crews downstream as far as McCann to measure water temperature and count the number of different species of fish.

On the other hand, nearly all the suppression efforts have been terminated.

Using gill nets to catch pikeminnow in Van Arsdale reservoir resulted in a kill of 13 juvenile steelhead during 2006, the first (and last) year of suppression. Forty-six suckers, a traditional food

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fish, were killed as well.

Only 61 pikeminnow were netted, which did not justify the kill of steelhead and suckers.

The suppression team continues to use electroshock in the Van Arsdale reservoir, with a crew taking a boat equipped with a generator and electric probes into the lake to stun the fish. Many of the pikeminnow die from the shock, but the ones that are merely stunned are taken out of the water. Steelhead do not seem to be harmed by this method, but there is no feasible way to use it in the river below the dam.

Humboldt County 2nd District Supervisor Clif Clendenen, who is Smith's alternate on the ERRC, asked whether biological suppression, such as the use of pheromones, has been considered.

Johns replied that pikeminnow excrete an "alarm substance" when they are netted, signaling other pikeminnow to stay away. There may be a way to use this to keep the predators out of critical parts of the river, he said.

Pikeminnow are common in other river systems, such as the Sacramento River, where they co-exist in balance with salmonids and other species, Steiner pointed out. They "don't necessarily mean the end, [the fish] just have to work it out," he said.

The RPA requires a five-year suppression period, which ends this year, although PG&E may choose to extend it. Monitoring efforts must continue for another 10 years. If pikeminnow increase and steelhead decline, then the RPA requirements can be re-evaluated.

Statistics for the five years of monitoring from 2006 to 2011 indicate the opposite, however: that steelhead are gradually increasing while pikeminnow are gradually decreasing, suggesting that the two species are approaching equilibrium, according to Johns and Steiner.

"People anticipated a longer range program," Smith said. "I'm glad to hear the electroshock is continuing. ...We will probably want PG&E to continue their program."

Pikeminnow recently turned up in Martin Slough in Eureka, close to Humboldt Bay, Smith noted.

Coyote Dam holding up

The commission also heard a report from the Army Corps of Engineers on the condition of Coyote Dam, which impounds Lake Mendocino.

The dam held up well during unusually high water this past spring, said Mike Dillabough, chief of the Operations and Readiness Division in the San Francisco District. "The dam is actually better than we thought."

He cautioned that modeling studies indicate that water will "overtop" the dam during a "maximum flow event." With the federal government struggling to reduce its debt, it's unlikely that funding to improve the dam will materialize, he added.

Therefore the only solution would be to let more water out of the dam in the winter, increasing flows down the Russian River.

Quagga mussel problems

Denise Rushing, a county supervisor in Lake County, gave a presentation on the quagga mussel quarantine in Clear Lake. Quagga mussels are an incredibly fast-spreading invasive species, a tiny mollusk that can attach itself to almost any surface, natural or manmade, including the hulls and interior compartments of boats and all kinds of structures and pipes.

Once situated, quaggas reproduce rapidly, clogging pipes and leaching nutrients from the food chain.

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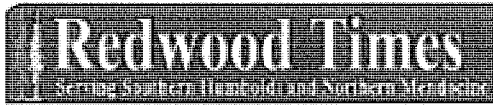
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In the past 20 years, since being introduced into the Great Lakes from the Baltics in the ballast water of oceangoing vessels, quaggas have spread all the way to California, hitching rides on recreational boats trailered from one waterway to another.

Lake County, which has a largely water-oriented tourist economy, has launched an all-out education and inspection campaign, using entirely volunteer manpower. All vessels on Lake County waters must have an inspection certificate, or the owner faces a \$1,000 fine and a possible six-month jail sentence.

Rushing urged the surrounding counties to support Lake County's efforts by starting campaigns of their own, accepting each other's inspection stickers, and helping to seek funding and legislative action to support suppression of the quagga mussel.

The ERRC meets approximately every six months, rotating locations. The next meeting will be held in Eureka, with date and time to be announced.

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BOB MISC



Novato students learn algebra on the job

By Rob Rogers
Marin Independent Journal

Posted: 08/10/2011 03:51:50 PM PDT

There are times when algebra looks like a series of equations on a chalkboard.

And then there are times when it looks like a laboratory reaction, or a race car thundering across a speedway, or — in the case of Christian Williams — the proper operation of a wastewater treatment plant.

"This number represents the pounds of food we're sending to the 'bugs' in a day," said Williams, speaking before a small crowd of students in a classroom at the Novato Sanitary District office. "Based on this formula — the food-to-microorganism ratio in the aeration basin — how many pounds of 'bugs' are there?"

Williams' students are participants in the Novato Algebra Academy — a three-week program created by the North Bay Leadership Council and the Novato Unified School District that debuted Aug. 1. Based on a similar program in Santa Rosa, the Algebra Academy helps English language learners from Novato's middle schools master formulas and solve tough equations — and then shows them how businesses, government and athletes use that analytical process on the job.

"The way this works is that kids go to a different employer every day," said Cynthia Murray, president of the North Bay Leadership Council. "They spend the first two

hours learning algebra, and the last two hours touring the site, seeing how employees use math and science."

This summer, those employers have included the North Marin Water District, the

Buck Institute for Research on Aging, Infineon Raceway, Redwood Credit Union and the Novato Sanitary District, where a lab-coated Linda Candelaria demonstrated one of the tests she performs several times each day to determine the treatment plant's efficiency.

"Let's recap what we just did," said Candelaria, the plant's laboratory supervisor. "We weighed the filter to determine the total grams of solids left, and then converted grams to milligrams using the formula. Now we'll multiply the total suspended solids by a thousand to convert the milliliters into liters."

The formulas used by Candelaria and Williams might seem complicated to an outsider, but the students participating in the program said they had no difficulty following along.

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"It's very interesting," said 13-year-old Gianculo Romero, who attended Hill Middle School this past year. "We do lab experiments, and we get to see the culture here."

That comfort level is due in large part to the instructional materials developed by Cheryl Griffin, who spends the school year teaching algebra at Novato's San Jose Middle School.

"I met with the owners of each business two months ago to talk about what math they use and to create lesson plans based on that," Griffin said. "Most of it is basic algebra: you create equations, and you solve for different variables."

About 20 students were chosen to participate in the program, based on the recommendations of their teachers.

"These are students who showed a spark, who had a good interest in and understanding of math," said Vicki Romero, director of curriculum and instruction for the Novato Unified School District. "It wasn't based on their good performance or grades."

The North Bay Leadership Council chose to focus on algebra, Murray said, because it was a subject critical to students' future academic success — albeit one many choose to ignore.

"Algebra is part of the required curriculum everybody must take if they want to be admitted to the CSU or UC systems," Murray said. "But a lot of students don't realize that they needed algebra until they start applying to colleges. Many of these students are not only English language learners, but the first in

their family to even get an idea about going to college. So we want to provide them what assistance is out there."

The council hopes to expand the program to San Rafael and Petaluma in the future, said Murray, who is working to recruit more employers for the academy. Those employers who have taken part so far say they enjoy the opportunity to show others the technical aspects of what they do.

That's particularly true of Williams, who began working as a treatment plant intern while still a teenager. Now 22, Williams has created several YouTube videos on wastewater math. He ended his presentation last week by showing his students one of the questions from the plant operator examination — a complex equation whose answer required at least a page of careful analysis — and assuring them that they had the skills to complete it.

"All the algebra you've learned? You know all these formulas," Williams said. "And this problem is just one formula stacked on top of another."

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Sonoma County's electricity-from-ocean-waves project canceled

By JEREMY HAY

THE PRESS DEMOCRAT

Published: Sunday, August 7, 2011 at 2:14 p.m.

An alternative energy project off the Sonoma County coast that local officials just two years ago hailed as a way to increase renewable energy sources has come to a quiet end.

Federal regulators have canceled permits issued to the Sonoma County Water Agency to explore generation of electricity from wave power at three coastal sites.

Now just one, so-called hydro-kinetic project remains under exploration on the state's coast, according to commission documents, in San Diego County. That leaves the East Coast and Midwest in the apparent forefront of such efforts.

PG&E has suspended projects it began in Humboldt Bay and near Santa Barbara, citing high costs and permit problems.

Water Agency officials said they couldn't get the \$2 million to \$3 million needed to study the sites off Fort Ross and near Sea Ranch, leading the Federal Energy Regulatory Commission to rescind the permits it issued in 2009.

"It wasn't a surprise. We fully expected it," Cordel Stillman, the agency's deputy chief engineer, said of the Thursday decision. "We were not able to secure the funds to even begin that preliminary work."

Observers who had monitored the project, excited by its potential and also cautious about possible damage to marine life, said they were disappointed.

The commission's decision was "somewhat shortsighted," said Richard Charter, a prominent Bodega Bay environmentalist. "Wave energy off the Northern California coast appears to be an idea whose time has not yet come."

The county's acknowledgment that it had not found any funding convinced regulators that the project was not going anywhere, a commission spokeswoman said.

"You must progress to our satisfaction when you have a preliminary permit; otherwise, we have the option of canceling," said Celeste Miller.

Nascent technologies to harness the ocean's power need more "time for gestation but FERC is unable or unwilling to provide that time," said Charter, co-chairman of the National Outer Continental Shelf Coalition, which works on coastal ocean ecosystems issues.

The Water Agency earlier this year failed to win a federal Energy Department grant that would have allowed it to proceed, Stillman said.

The ability to investigate wave power's promise under the aegis of a public agency was an advantage of the now-shelved project, environmentalists said.

"We would rather have a governmental agency, a county agency, involved rather than a corporation that might not be as responsive," said Mike Frey of the Sonoma Coast Surfrider Foundation, which works on coastal and beach access issues.

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Charter said, "Losing local control really brings the potential for some larger player who may not have the best interests of the Sonoma County coast at heart, to step in."

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County Supervisor Efren Carrillo, a Water Agency director, said that was unlikely because of the investment that would be required.

"One of the primary reasons for applying for these permits in the first place was to have some local control," he said.

"But as time has passed, the risk has really become minimal because wave energy technology has not really gone to the next phase like we expected," he said.

The Water Agency has 30 days to appeal the federal decision but is unlikely to do so, Carrillo said.

You can reach Staff Writer Jeremy Hay at 521-5212 or jeremy.hay@pressdemocrat.com.

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SONOMA WEST TIMES & NEWS > NEWS

River estuary report set for final approval Plan goes before Board of Supervisors on Aug. 16

Print Page

by Frank Robertson
Sonoma West Staff Writer

Published: Wednesday, August 3, 2011 3:52 PM PDT

The final environmental impact report (EIR) on a controversial Russian River estuary management plan has been released and is set to be certified in two weeks by the Sonoma County Board of Supervisors.

Despite hundreds of pages of criticism and complaints, some orchestrated, saying it's inadequate, the EIR will probably be approved at a public hearing set for Aug. 16 at 10 a.m. said Sonoma County Water Agency spokeswoman Jessica Martini-Lamb.

The board will need to make a finding of "overriding consideration" regarding the estuary plan's potential significant unavoidable impacts on recreation, water quality and harbor seal habitat, said Martini-Lamb.

The voluminous letters of concern from Russian River watchdog groups include nearly 150 duplicate letters produced by the Russian River Watershed Protection Committee which provided a form letter for people to sign and send in.

RRWPC members and others say the estuary management plan and a separate Water Agency Fish Flow Project that would permanently reduce the amount of water released into the Russian River in the summer should both be the focus of a single watershed EIR.

The separate Fish Flow Project EIR is under way and may be completed in two years.

"I think staff did an adequate job of responding to all those concerns," said 5th District Supervisor Efen Carrillo.

Both the estuary and the reduced flow projects are mandated by a National Marine Fisheries Service Biological Opinion directing the Water Agency to make changes in its Russian River operations in order to improve habitat for the River's threatened and endangered native fish, said Carrillo.

The estuary project will allow the Water Agency to maintain a freshwater lagoon at the River's mouth from May 15 through Oct. 15 instead of breaching the sandbar that naturally forms by wave action.

The closed lagoon provides favorable rearing habitat for juvenile native fish but if the lagoon's water level gets too high it floods low-lying properties in Jenner, including the town visitor center.

The Water Agency plans to use heavy equipment to create a spillway in the sandbar and maintain an approximately 8-foot deep estuary that will benefit fish without flooding the town.

The plan has unleashed a torrent of criticism from River watchers including founders of the estuary's



HAUL OUT — The sand bar near Jenner at the mouth of the Russian River is a gathering place for seals and other wildlife. The County's new estuary management plan has come under heavy criticism from environmental watchdog groups. - photo by Frank Robertson

Seal Watch project that watches over the harbor seals that haul out on the sandbar in Jenner.

The final EIR, prepared by Environmental Science Associates (ESA), includes responses to all comments received, said Carrillo.

Several impacts are significant and could not be mitigated, including some low-lying wetlands, beaches and boat docks near the estuary that are currently inundated by high water levels during the summer months and will be inundated for longer periods of time, said Water Agency spokesperson Ann DuBay in a media release last week.

Because water will stay in a closed estuary for a longer time, there may be an increase in the amount of time that water quality in the estuary is potentially degraded due to high bacteria or nutrient levels, said DuBay.

Some groundwater wells near the estuary currently experience seasonal saline water intrusion, said DuBay. When the estuary closes, the salt and fresh waters stratify, and the heavier saltwater could concentrate near the bottom of the estuary, potentially extending the time period of salinity problems in some wells.

"It's also possible the project might improve well conditions by reducing seawater intrusion into the estuary," said DuBay.

Seals, sea lions and other marine mammals that currently haulout on rocks and logs in the estuary could be impacted by longer estuary closures and higher water levels.

Seals and sea lions currently leave the haulout site whenever the estuary closes, said DuBay.

"Although these impacts are significant, the Water Agency must change its estuary management practices in order to comply with the conditions contained in the Russian River Biological Opinion," said DuBay.

"Such compliance will allow the Water Agency to continue to supply water and provide flood control protection to residents within its service area, and will help ensure the continued survival of threatened and endangered salmon species in the Russian River watershed."

Copies of the EIR are available at the Water Agency's Website at www.scwa.ca.gov.

Frank Robertson can be reached at news@sonomawest.com.

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Treatment Performance: Point Reyes Treatment Plant

Treatment was optimal throughout the quarter and finished water quality in was good. Iron and Manganese removal was excellent; neither of the metals was detected in the treated water.

Distribution System: Point Reyes and West Marin

There were no coliform positive samples from the distribution system during this quarter. Chlorine residuals were adequate. Total disinfection byproducts were moderate during the quarter.

In order to address elevated disinfection byproducts during periods when salinity in raw water is high, we have installed an experimental treatment system in the Inverness park tanks. This system uses a pump to spray water from the tanks onto the surface of the water, liberating the volatile DBPs in to the air space of the tank where they are vented to the atmosphere. We are currently collecting data on the effectiveness of the system and will report results to the board at a later date.

NOVATO RECYCLED WATER

The Deer Island Recycled Water Facility began operation for the season on April 29th. Despite some operational problems from low quality influent, treatment has been good. Most samples have had no coliform bacteria.