

TO: BOARD OF DIRECTORS  
FROM: MICHAEL LEBRUN *MSL*  
DATE: DECEMBER 3, 2009

**AGENDA ITEM**  
**C-3**  
**DECEMBER 9, 2009**

## MONTHLY ENGINEER UPDATE

### ITEM

NCSD District Engineer Peter Sevcik re District Engineer Activities in November 2009 [NO ACTION REQUESTED].

### BACKGROUND

Peter Sevcik is scheduled to summarize the attached outline.

### RECOMMENDATION

Staff recommends that your Honorable Board receive the presentations and ask questions as appropriate.

### ATTACHMENTS

- District Engineer Activities Outline

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# NIPOMO COMMUNITY SERVICES DISTRICT

148 SOUTH WILSON STREET  
POST OFFICE BOX 326  
NIPOMO, CA 93444 - 0326  
(805) 929-1133 FAX (805) 929-1932  
Web site address [www.ncsd.ca.gov](http://www.ncsd.ca.gov)

## MEMORANDUM

TO: MICHAEL LEBRUN, INTERIM GENERAL MANAGER  
FROM: PETER V. SEVCIK, P.E., DISTRICT ENGINEER *P. V. Sevcik*  
DATE: DECEMBER 2, 2009  
RE: DISTRICT ENGINEER ACTIVITIES UPDATE

- **Santa Maria Waterline Intertie Project**
  - Attended December 1, 2009 City Council Meeting
  - Met with AECOM to discuss status of design and design budget
  - Reviewed 90% submittal for Nipomo Area Pipeline Improvements (Bid Package #2)
  - Assisted Interim General Manager with Committee meeting
- **Southland WWTF Upgrade**
  - Reviewed TM #1 – Operations During Construction
  - Overseeing Fugro's investigation of Pasquini property
  - Assisting with environmental review process
- **Willow Road Waterline Extension Phase 1 Project**
  - County bidding of project delayed to January, 2010
- **Willow Road Waterline Extension Phase 2 Project**
  - Waiting for County review of 35% design
- **Water and Sewer Master Plan Implementation**
  - Misty Glen Connection Project pre-construction meeting on 12/1
- **Safety Program**
  - Coordinated safety training for District operations employees on 12/8
  - Continued to monitor on-line training program for all District employees
- **Sewer System Management Plan**
  - Developed implementation plan for recently approved Fats, Oils and Grease (FOG) Control Element
- **Sundale Well**
  - Working on scheduling cleaning of well and reinstallation of pump

## District Engineer Activities Update

December 2, 2009

Page 2

- **Development Oversight**
  - Tract 2663, 220 Buckhorn, Bud Kelly - construction completed
  - Tract 2689, 691 W Tefft, Terry Flatley - in construction
  - CO 06-0225, 781 W Tefft, Bill Kengel - in construction
  - Tract 2441, Grande and Blume, Gray Trust - in plan review
  - Tract 2855, Juniper and Daffodil, Mid State Properties - in plan review
  - Tract 2650, Via Concha and Willow, Vintage Homes - in plan review
  - Developing list of project owners to notify regarding Intent to Serve extension
  - Continued service request, plan check and project acceptance processing
  
- **Other**
  - Obtained California Department of Public Health Approval for Triggered Source Monitoring Plan
  - Submitted monthly compliance reports for the water and wastewater systems

TO: BOARD OF DIRECTORS  
FROM: MICHAEL LEBRUN *ML*  
DATE: DECEMBER 3, 2009

**AGENDA ITEM**  
**C-4**  
**DEC 9, 2009**

MONTHLY SUPERINTENDENT UPDATE

**ITEM**

NCS District Superintendent Tina Grietens re Utility Division Activities in November 2009 [NO ACTION REQUESTED].

**BACKGROUND**

Tina Grietens is scheduled to summarize the attached outline.

**RECOMMENDATION**

Staff recommends that your Honorable Board receive the presentations and ask questions as appropriate.

**ATTACHMENTS**

- District Utilities Division Activities Outline

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# NIPOMO COMMUNITY

## BOARD MEMBERS

JAMES HARRISON, PRESIDENT  
LARRY VIERHEILIG, VICE PRESIDENT  
ED EBY, DIRECTOR  
MIKE WINN, DIRECTOR  
BILL NELSON, DIRECTOR



# SERVICES DISTRICT

## STAFF

MIKE LE BRUN, INTERIM GENERAL MANAGER  
LISA BOGNUDA, ASSISTANT GENERAL MANAGER  
JON SEITZ, GENERAL COUNSEL

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TO: MIKE LE BRUN, INTERIM GENERAL MANAGER  
FROM: TINA GRIETENS, UTILITY SUPERINTENDENT  
DATE: DECEMBER 3, 2009  
SUBJECT: UTILITY DIVISION UPDATE FOR NOVEMBER 2009

- **Southland Wastewater Plant and Utility Yard**  
Setup of EOC Facility status: radio frequency application processed, antenna base on order,  
Radios received, installation in vehicles started  
Rebuilt aerator motors for treatment ponds
- **Collection system**  
Rags removed from Gardinia lift station by Mainline Utility (sewer cleaning truck)
- **Distribution System**  
Flushed dead end water lines in Blacklake and downtown  
Voltage spikes caused wells to shut down, working with PG&E on solution  
New 10" valves replaced old at both 500,000 gal tanks at Quads  
Standby generator for Sundale well delivered  
Installed conduit for radio antenna at Eureka well site
- **Maintenance**  
Valve exercising utilizing Wachs "loaner", angle meter stops and meters replaced  
Demonstration of valve exercising equipment by Pacific Tek company  
Researching literature on valve exercising equipment and software  
Requested quotes for new vehicle  
New tires and brakes replaced on one District truck  
Preventive maintenance performed on District generators
- **Compliance**  
Reviewed Groundwater Rule Triggered Source Monitoring Program  
Monitored laboratory results, prepared compliance reports for WWTPs
- **Other**  
Met with District Engineer and electrical safety coordinator  
Reviewed electrical safety program





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## MEMORANDUM

TO: MICHAEL LEBRUN  
 FROM: CELESTE WHITLOW, CONSERVATION COORDINATOR AND PUBLIC OUTREACH  
 DATE: DECEMBER 4, 2008  
 RE: ITEM C-5 : WATER CONSERVATION PROGRAM SEMI-ANNUAL REPORT AND NOVEMBER 2009 REVIEW.

### REVIEW OF PROGRAM ACTIVITIES FROM JULY THROUGH NOVEMBER 2009.

**Review of water consumption.** Note that the District uses a bi-monthly billing cycle, with one part of the District billed one month, and the other part of the District billed the next month. Each month's billing is for water delivered in the previous two months (water use billed in January will be for water delivered in November and December). In addition, the customers in the Town billing cycle tend to use less water per meter than the customers of the Mesa billing cycle.

"Urban Water" consists of the Department of Water Resources categories of single-family residence, multi-family residence, commercial-institutional, landscape, and other.

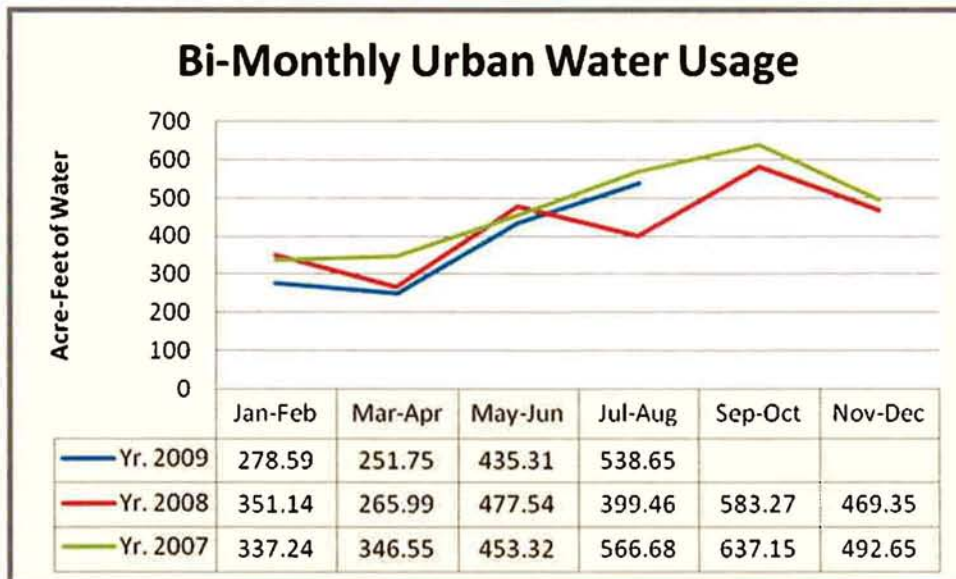


Table 2: NCSD GPCD (Urban)	
Year	GPCD
2004	165.96
2005	177.82
2006	170.46
2007	182.58
2008	176.40
<b>AVERAGE:</b>	<b>174.64</b>

In addition to the customer categories shown graphically, water is used for flushing water mains.

Table 3: NCSD WATER USED FOR FLUSH MAIN LINES (Gallons)												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2008											90,000	322,500
2009	112,500	90,000	165,000	142,500	60,000	157,500	60,000	150,000	150,000	255,999		



In November and December 2008, 412,500 gallons of water were used for flushing.

From January through October 2009, 1,343,499 gallons were used for flushing.

**Summary.** Except for a dip in consumption in July-August 2008, the consumption remains typical for the NCSD, the shape of the curve remains typical for urban water consumption in our region's Mediterranean climate.

	<b>Jan-Feb</b>	<b>Mar-Apr</b>	<b>May-Jun</b>	<b>Jul-Aug</b>
Yr. 2009	278.59	251.75	435.31	538.65
Yr. 2007	337.24	346.55	453.32	566.68
<b>Difference</b>	<b>-58.65</b>	<b>-94.8</b>	<b>-18.01</b>	<b>-28.03</b>

Water consumption for the first four billing cycles in 2007 and 2009 show a steady decrease. So far this year, the NCSD has used 199.49 acre-feet less than the same period in 2007 (-12% less).

**Results of retrofit-at-time-of-sale plumbing retrofit program.** The program is part of the measures enacted by the County of San Luis Obispo in support of the declared Level of Severity 3 for water resources in the Nipomo Mesa area. The program requires retrofitting of toilets flushing more than 1.6 gallons per flush (GPF) with 1.28-GPF toilets, and retrofitting showerheads using more than 2.5 gallons per minute (GPM) to showerheads using 2.5 GPM or less, upon sale of a residence in the Nipomo Mesa Conservation Area. This program is a County-administered program. All forms verifying retrofits as accomplished are submitted to SLO County Planning. As a courtesy to our customers, a step-by-step Homeowners' Guide was prepared, and it, along with the Verification Form, a map of the Nipomo Mesa Conservation Area, and links to the actual Title Amendment calling for the retrofits, are on the NCSD website. Notification of the website availability was mailed to real estate companies in the San Luis Obispo, Five-Cities, Nipomo and Santa Maria areas. The information is available to the public on our website, and has greatly decreased (or shortened the duration of) the number of questions and telephone calls we would have otherwise received.

The gallons-per-flush (GPF) savings depend on the GPF of the old toilet and the GPF of the new toilet. The County specifies retrofit to a 1.28 GPF (or less) toilet. Good-performance toilets of 0.8 GPF are on the market. Table 6 demonstrates the water savings from retrofits of various GPF old toilets to new 1.28 and 0.8 GPF toilets.

<b>Agency</b>	<b>Old Toilet Gallons per Flush(GPF)</b>	<b>New Toilet Gallons per Flush(GPF)</b>	<b>Savings/ Flush</b>	<b>Savings/Day (Gal/Toilet)</b>	<b>Savings/Yr (Gal/Toilet)</b>	<b>Savings/Yr (AFt/Toilet)</b>	<b>Savings/ 30-yr (AcFt/Toilet)</b>
NCSD	6.0	1.28	4.7	32.10	11715.04	0.036	1.079
NCSD	3.5	1.28	2.2	15.10	5510.04	0.017	0.507
<b>TOTAL for Jan-Nov 2009:</b>			<b>6.9</b>	<b>47.19</b>	<b>17225.08</b>	<b>0.053</b>	<b>1.586</b>

Out of 13 certifications for plumbing retrofit issued for the SLO County, 11 already had 1.28-GPF toilets, 2 were certified for retrofitted toilets, and 2 were were certified for retrofitted showerheads.

For the retrofitted toilets from June through November 2009, both toilet retrofits were NCSD customers. One of the toilets was for a toilet of 6.0 and one was for a toilet of 3.5.

The water saved from these two retrofits is 47.9 gallons per day, and over a 30-year period, the savings are 1.586 acre-feet per year (AFY).

Neither of the 2 showerheads replaced were for NCSD customers.

Estimated water savings for NCSD customers participating in the retrofit program, from January through November 2009 are 47.9 gallons per day, 17,225 gallons per year, and 1.586 AcFt for the life of the hardware. For all NCSD retrofits under this program, the estimated water saving are 139.34 gallons per day, 5,8959.1 gallons per year, and 3.030 AcFt for the life of the hardware.

TABLE 6: WATER SAVINGS FROM TOILET RETROFITS TO 1.28 GPF TOILET						
Old Toilet Gallons per Flush(GPF)	New Toilet Gallons per Flush(GPF)	Savings/ Flush	Savings/Day (Gal/Toilet)	Savings/Yr (Gal/Toilet)	Savings/Yr (AFt/Toilet)	Savings/30-yr (AcFt/Toilet)
6.00	1.28	4.7	32.10	11715.04	0.036	1.079
5.00	1.28	3.7	25.30	9233.04	0.028	0.850
3.50	1.28	2.2	15.10	5510.04	0.017	0.507
1.60	1.28	0.3	2.18	794.24	0.002	0.073
1.28	1.28	0.0	0.00	0	0.000	0.000
Old Toilet Gallons per Flush(GPF)	New Toilet Gallons per Flush(GPF)	Savings/ Flush	Savings/Day (Gal/Toilet)	Savings/Yr (Gal/Toilet)	Savings/Yr (AFt/Toilet)	Savings/30-yr (AcFt/Toilet)
6.00	0.8	5.2	35.36	12906.4	0.040	1.188
5.00	0.8	4.2	28.56	10424.4	0.032	0.960
3.50	0.8	2.7	18.36	6701.4	0.021	0.617
1.60	0.8	0.8	5.44	1985.6	0.006	0.183
1.28	0.8	0.5	3.26	1191.36	0.004	0.110

## SUMMARY OF ACTIVITIES, JANUARY THROUGH JUNE 2009

### Community Events and Educational Workshops

- Workshop planning: The usual Spring Landscape Workshops are planned for 2010. These workshops are *Importance of Soil and Composting; Soils and Composting; Native and Drought-Tolerant Plants; Landscape Design with Drought-Tolerant Plants; Sages, Lavenders and Ceanothus; Water-Efficient Landscape Irrigation*. Questions often arise about the reuse of residential graywater, and it is hoped to schedule a graywater workshop for the spring.
- Site visit to Creekside Condos.
- Chamber of Commerce Fall Festival.
- Site visits to Landscape Maintenance District #1 (Vista Verde)
- Meetings with local activists and San Luis Obispo County personnel regarding Nipomo Creek.
- Chipping Event.
- 2009 Home Expo at Madonna Expo Center
- San Luis Obispo County WaterFest 2009.



**NCSD Landscape**

- Care and management of NCSD's "Compost Corral."
- Installed "temporary" landscape as demonstration.
- Monitor landscape.

**Professional Development**

- Attendance of bi-monthly San Luis Obispo County Partners for Water Conservation meetings.
- Water Conservation Specialist 1 Certification.
- Attended training on smart irrigation controllers.

**Newsletters, Mailings, Advertising.**

- District Newsletter and Water Conservation newsletters (preparation, mailing).
- Preparation of flyers, ads for workshops.
- Preparation, printing of water conservation brochures and handbooks.
- Preparation of water-conservation newspaper ads.
- Coordination of bill stuffers.
- Graphics: All graphics (no funds were spent for graphic-arts preparation of materials from outside consultants), including conservation newsletters, ads, flyers, brochures, handbooks, and workshop materials.

**Water Conservation Program**

- Water: Use It Wisely.
- ConserveTrack (installed, learning program as time allows).
- Rebate: High-Efficiency Clothes Washers (update).
- Rebate: Lawn Replacement (launch scheduled for January 2010).
- Rebates: MP-Rotator, Graywater, Lawn Aeration (research).
- Water audit program (in progress).
- SLO County's plumbing retrofit program for the Nipomo Mesa (see update, above).
- Researched, interviewed, prepared information for Board of Directors' evaluation, implemented

**LMD #1 (Vista Verde)**

- Landscaping Maintenance District #1 installation of WeatherTrak ET-based irrigation controller; supervised repair of system; compiled data on results.
- Letters updating homeowners on status of irrigation controller installation and reduction in monthly HOA dues.

**California Urban Water Conservation Council.**

- Attended two teleconferences and one Plenary Meeting/Workshop.

**Monitoring Legislation, Ordinances, Regulations.**

20 x 2020. Californians required to use 20% less water in 2020.

AB1366 (Chaptered) Authorizes local agencies providing wastewater treatment services to control salinity inputs from residential self-regenerating water softeners.

AB2175. (20 x 2020) No change.

AB474. (20 x 2020).

AB1061. In support of the Model Landscape Ordinance, forbids a homeowner's association, city, etc. from having regulations, laws, etc. that can prohibit the use of low water-using plants.

SB 407. Water-efficient plumbing requirements.

SB6. Groundwater.

AB474 (Chaptered). Allows legislative body of any public agency to designate an area in which landowners and public agencies, community services districts, cities, counties, et al. AND property owners to enter into contractual assessments to finance the installation of water-efficiency improvements which are permanently fixed to real property.

**Other**

- Provided advice and support as needed for the Science Discovery Program for Nipomo's elementary schools.
- Researched and purchased a custom map of the Nipomo area, with rights for duplication for an individual's use (no commercial use, selling, or otherwise profiting from distributing the map).
- Attended the WaterInnovations 2009 Conference.
- Reviewed Department of Water Resources Urban Drought Workbook, Environmental Protection Agency's Response to Urban Change Program.
- Reviewed and prepared reports for water-conservation related programs and legislature.

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