

**DISTRICT ENGINEER'S REPORT**  
**June 29, 2007**

TO: PBCSD Board of Directors

FROM: Michael Niccum, District Engineer  
J.T. Rethke, Assistant Engineer

SUBJECT: **Utilities Operations and Maintenance**  
**Report for 5/17/07 to 6/21/07**

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**1. SUMMARY OF MAINTENANCE ACTIVITY:**

A factory representative from the auto-strainer company trained and assisted with the change out of 0.010" slotted screens for 0.005" screens at Forest Lake on June 21. One of the three auto-strainers at the reservoir received the finer screen as a test. One of the two chlorinator systems was drained and cleaned at the water treatment building. The gear box oil was changed in both sulfuric acids pumps. A replacement seal (to stop a minor oil leak) has been ordered for one of the sulfuric acid pumps. New chemical delivery truck routes have been implemented to avoid transiting Cal Am property. The reservoir's deployable probe was re-calibrated and a detailed 50-page Calibration Procedures Manual created.

Early on the morning of June 1<sup>st</sup>, a drunk driver damaged the air relief valve on the reclamation main line at the Four Corners intersection requiring a temporary shut down / repair. A flex coupling was replaced on one of the Poppy Hills reclamation pumps. Daily field inspections continue in support of the 4<sup>th</sup> Priority Water Project in the San Carlos / Stevenson Drive area. Assistance was given to Cal Am with final water service connections on San Carlos and Broncho Road. Coordination efforts continue with Pavex (Granite Rock) in the re-work of raising manhole covers and a reclamation traffic lid as part of the Pebble Beach Company's re-surfacing project on 17-Mile Drive.

Electrical load bank testing was completed on the emergency diesel generator at Pump Station P-3. The Maintenance Department designed and installed a locking system on the Pump Station P-2 access door to secure it open during maintenance inspections in high wind conditions. The wet well at Pump Station P-8 (Spanish Bay) was stirred to remove built up grease. The Maintenance department has started using the new fusion welding equipment to install wye fittings for new residential lateral connections in the new HDPE (high density polyethylene) sewer main lines. Weed eating and general maintenance was performed at Indian Village. Brush removal (30 feet back from the road way) on District property, in accordance with a District fire department ordinance standard, was completed along Forest Way.

J.T. Rethke attended the new NFPA 70E / OSHA Electrical Safe Work Practices training at Monterey Regional Water Pollution Control Agency (MRWPCA).

## **2. WASTEWATER FLOW MEASUREMENTS:**

An average daily wastewater flow of 548,000 gallons per day (gpd) was measured at the PBCSD Carmel gate flow metering station in May, which represents 33 % of the total flow of 1,676,000 gpd measured at the CAWD treatment plant. The measured PBCSD flow is 7% below the five-year average of 591,000 gpd for May and the CAWD total flow is 7% below the five-year average of 1,795,000 gpd for May. A chart showing the quantity of PBCSD wastewater flow recorded during the month of May and a graph showing average daily wastewater flows from PBCSD and the CAWD treatment plant for the past twelve months as well as the five-year average for each month is attached.

## **3. RECYCLED WATER USE:**

Total irrigation water demand for the 2006-07 water year (October 1 to September 30) to date is 551 acre-feet including 463 acre-feet or 84 % of recycled water. Total demand for the water year is 11 % above the 12-year average usage of 498 acre-feet for this point in the water year. A successful potable water flush of the Pebble Beach golf courses was conducted from June 8 to June 14. Forest Lake Reservoir supplied water for an extra day while a new electrical transformer was installed at the Carmel Area Wastewater District as part of the phase 2 treatment plant project. The June flushing cycle used 27 acre-feet of potable water. Flushing cycles account for all potable water used to date this water year.

Two attached charts show the total water and potable water usage recorded on a daily basis for May and June to date. Two additional charts and a graph summarize total, recycled and potable water usage on a monthly basis for the 2006-07 water year to date and for the previous twelve water years.

## **4. FOREST LAKE WATER STORAGE STATUS**

Approximately 82.0 million gallons or 252 acre-feet of recycled water was stored in Forest Lake Reservoir on June 22nd, which represents 78 % of the permitted capacity of 105 million gallons. A chart showing the volume of storage at the reservoir over the course of the current irrigation season is attached.

**5. RESIDENT COMPLAINTS & REQUESTS:**

<b>DATE</b>	<b>DESCRIPTION</b>
5/30/07	Pebble Beach Security reported a manhole overflowing. The maintenance crew, removed a piece of concrete lodged in the manhole near the equestrian center, observed approximately 200 gallons of sewage overflowed on the equestrian center property and cleaned and disinfected the area.
6/3/07	Resident at 2906 Oak Knoll, Ray Ranks, reported sewage stoppage. Crew checked main line and notified resident the stoppage was in house lateral.
6/5/07	The resident at 1106 Wildcat Canyon Road, Robert Jeter, reported uncovering a live septic tank while replacing the house lateral. District records show the septic tank bypass was inspected by District personnel in 1974. The District agreed to reimburse the resident for the estimated cost of \$1,500 for pumping out the septic tank and backfilling with sand.

**6. SEWER LINES CLEANING:**

Lines were cleaned by the maintenance department using the combination line cleaning/vacuum truck at the following locations in the Country Club neighborhoods.

<b>DATE</b>	<b>FOOTAGE</b>	<b>DESCRIPTION</b>
5/17/07	791 feet	San Carlos Road
5/22/07	4,600 feet	Costado Road, Highway 68
5/23/07	1,743 feet	Crest Road
5/24/07	4,239 feet	Crest Road, El Bosque, Sunset Lane
5/30/07	2,896 feet	Wranglers Trail, Drake Road
6/11/07	2,958 feet	Sunset Lane, Pine Meadows Way
6/14/07	2,540 feet	Sunridge Road, Sunset Lane
6/18/07	1,380 feet	Sunset Lane, Crest Road
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<b>TOTAL FOR THIS PERIOD</b>	<b>21,147 feet</b>	
<b>TOTAL PBCSD LINES</b>	<b>405,000 feet</b>	
<b>PERCENTAGE CLEANED</b>	<b>5%</b>	

**7. UNDERGROUND SERVICE ALERT CALLS:**

During this period, the maintenance crew marked sewer or recycled water lines at the following locations in response to underground service alert (USA) calls. Contractors or other utilities are required to contact the USA system prior to performing construction activities that involve trenching or other underground work. The system is designed to provide underground utility locations to the contractor so that the construction work can be completed without damaging the existing utility lines. The District identifies the location of wastewater lines with green paint and recycled water lines with purple paint.

<b>DATE</b>	<b>LOCATION</b>
5/17/07	Vaquero / Rodeo / Ocean / Stevenson Drive (Water Project)
5/21/07	1462 Cypress Drive
5/31/07	Intersection of 17-Mile Drive & Alvarado Lane
5/31/07	Club Rd / Sloat Rd / Quarry Rd to New Road
5/31/07	Arroyo Rd (from Sloat to Colton)
5/31/07	Colton Rd (from Bird Rock to Arroyo Drive)
5/31/07	Ocean Rd (from Stevenson Drive to Rodeo Road)
5/31/07	Rodeo Rd (from Ocean Road to Vaquero Road)
5/31/07	Stevenson Dr (from Bird Rock Road to Ocean Road)
5/31/07	San Carlos Road to Stevenson Drive
5/31/07	Coral Drive to Lake Road
5/31/07	Intersection of El Bosque Drive & Sunset Lane
5/31/07	3167 Del Ciervo Road
5/31/07	Intersection of Palmero Way & Riata Road
6/4/07	1500 Griffin Road (between Spruance Road & Fergusson Lane)
6/4/07	1013 Wranglers Trail
6/7/07	1549 Riata Road (between Venadero Road & Palmero Way)
6/13/07	1549 Riata Road
6/14/07	Stevenson Drive (from Customs Road to Whalers Way)
6/14/07	Intersection of Vaquero Road & Rodeo Road to Ocean Road
6/18/07	2877 Lasauen Road

**8. SEWER LINES TV INSPECTIONS:**

<b>DATE</b>	<b>LINE FOOTAGE</b>	<b>DESCRIPTION</b>
6/19/07	506 feet	Pebble Beach Easement (17-Mile Drive)

**9. SOURCE CONTROL:**

The maintenance department inspected grease interceptors at the Monterey Peninsula Country Club (MPCC) clubhouse, the Inn at Spanish Bay, the Spanish Bay clubhouse, the Lodge, Club XIX and the Beach Club and found the units to be in acceptable condition.

**10. SEWER CONNECTION PERMITS/INSPECTIONS:**

<b>DATE</b>	<b>ADDRESS</b>	<b>DESCRIPTION</b>
5/18/07	3240 17-Mile Drive APN: 008-462-001	Permit #2940, Replace Lateral Owner: Coastal Seadrift LLC
6/12/07	1549 Riata Road APN: 008-341-023	Permit #2941, Replace Lateral Owner: Frank Herringer

**11. PLAN CHECKS FOR NEW SERVICE CONNECTIONS:**

<b>DATE</b>	<b>ADDRESS</b>	<b>DESCRIPTION</b>
6/5/07	1044 Majella Road APN: 007-132-003	New SFR, 2,686 SF Owner: William Clark

**12. PLAN CHECKS FOR ADDITIONS/REMODELING:**

<b>DATE</b>	<b>ADDRESS</b>	<b>DESCRIPTION</b>
6/5/07	2944 Stevenson Drive APN: 007-252-003	Addition, 387 SF Owner: Frank & Michelle Aliotti
6/5/07	1281 Padre Lane APN: 008-302-013	Addition, 449 SF Owner: Ron & Susan Briggs
6/5/07	1463 Cypress Drive APN: 008-453-018	Addition, 851 SF Owner: John & Victoria McDowell
6/14/07	3265 Ondulado Road APN: 008-442-006	Addition, 1374 SF Owner: Dr. Jerry & Doris Ginsberg

Attachments: Wastewater Charts (2)  
Recycled Water Charts (5)  
Forest Lake Storage Chart (1)      Agenda Item No. 10