

BOARD OF WATER SUPPLY of the COUNTY OF KAUA'I

**EMERGENCY BOARD MEETING**

Second Floor, Microbiology Lab Bldg  
Kaua'i County Department of Water  
4398 Pua Loke Street, Lihu'e, Kaua'i, Hawai'i 96766

**WEDNESDAY, MAY 28, 2014**

**2:30 p.m.**

Or soon thereafter

- A. CALL TO ORDER
- B. ROLL CALL
- C. ACCEPTANCE OF AGENDA
- D. NEW BUSINESS

1. Board Findings Related to Calling an Emergency Meeting on May 28, 2014 –

*The Kaua'i County Board of Water Supply, under the authority of Hawaii Revised Statute §92-8, has called an emergency meeting. The Board finds that there is an imminent peril to the public health, safety, or welfare due to the failure of both Kalāheo Well 1 & 2. This agenda item requires immediate action of the Board to fund repairs to the Kalāheo Well 2 Water System affecting the Kalaheo area.*

2. Manager's Report No. 14-57 – CIP Reserve Fund Transfer – Kalāheo Well 2 Pump Repairs

- E. ADJOURNMENT

# DEPARTMENT OF WATER

County of Kaua'i

*"Water has no Substitute – Conserve It!"*

## MANAGER'S REPORT No. 14-57

May 28, 2014

Re: CIP Reserve Fund Transfer - Kalaheo Well 2 Pump Repairs

### **RECOMMENDATION:**

The Department requests the Board to approve the Department's request to transfer money from the CIP Reserve Fund for the repairs to Kalaheo Deep Well 2 pump.

### **FUNDING:**

Funds for the subject project are available through Account 106b – CIP Reserve Fund

Account 106b Budget: CIP Reserve Fund	\$12,518,247
Oasis Water Systems, Inc. (Bid)	\$85,000
Cushman Jumper (Bid)	\$95,000
Contingency:	\$9,000
Funds Requested	\$250,000
Funds Certified	<u>(\$250,000)</u>
Funds Remaining	\$12,268,247

### **BACKGROUND:**

On or about January 29, 2014, the Department determined that the Kalaheo Deep Well 1 pump was inoperable due to a suspected broken shaft. The Department asked the Board for funding of the Kalaheo Deep Well 1 repairs at the February 27, 2014 Board Meeting. The Board approved funding at this meeting.

On the evening of May 24, 2014, the Department responded to a low water level alarm at the Kalaheo Reservoir. During the troubleshooting investigation, the Department discovered that the Kalaheo Deep Well 2 pump was inoperable. This left the Kalaheo service area without a source.

During the morning of May 25, 2014, the Department contacted the County Public Works and Fire Departments to inquire about borrowing water tanker trucks. The Fire Department offered one tanker truck and Public Works Department offered two tanker trucks. All water tanker trucks were delivered by 11:00 a.m. on May 25, 2014. The Department then spent the next few hours cleaning and disinfecting the tanker trucks. Disinfecting liquid (water and sodium hypochlorite) was left in the water tanker truck tanks overnight.

On May 26, 2014, the Department drained and rinsed the tanker trucks and filled it with potable water. Samples were taken by the Department's Water Quality Division to test for coliform bacteria and heterotrophic plate count (HPC). The connection between the Lawai and Kalaheo systems was opened, and the booster pumping station near the "Jelly Factory" was turned on to provide some service to the lower portions of Kalaheo.

On May 27, 2014, the results of the coliform and HPC tests show that the water in the two public works tanker trucks was safe and the trucks began to fill the Kalaheo Reservoir. The tanker truck from the Fire Department was not used due to operation limitations (only Fire Department personnel can operate their equipment).

The amount being requested for repair of the Kalaheo Well 2 Pump is estimated to be \$250,000. The cost includes the following:

1. Repair of Well 2 Pump – The Contractor will remove the pump motor, shaft and other equipment to be able to assess the extent of the damage and repair and report findings and estimated cost to the Department. Following authorization from the Department, the Contractor will repair the pump.
2. Waterline Jumper – The Contractor will install a waterline jumper from fire hydrant D-43 to D-44. This will allow an additional connection between the Lawai and Kalaheo systems and will allow the booster pumping station to be turned off for maintenance purposes.

**OPTIONS:**

Option 1 – Board approves transfer of funds to repair Kalaheo Well 2 pump.  
Pros: Pump is repaired and backup service is restored.  
Cons: None.

Option 2 – Board does not approve transfer of funds to repair Kalaheo Well 2 pump.  
Pros: None  
Cons: Pump is not repaired and backup service is not available.

Respectfully submitted,



Kirk Saiki, P.E.  
*Acting Manager and Chief Engineer*

KS/ein