



# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** FEBRUARY 12, 2018

**ITEM NO:** 9

**SUBJECT:** CONSTRUCTION OF THE EMERGENCY REPAIR WORK TO REPLACE AN INOPERABLE 12-INCH VALVE AT LINDEN BOOSTER STATION – RESOLUTION DECLARING THE REPAIR WORK AN URGENT NECESSITY FOR PRESERVATION OF LIFE, HEALTH OR PROPERTY – IN THE AMOUNT OF \$53,695, TO WEKA, INC. OF HIGHLAND, CALIFORNIA – WORK ORDER NO. 1819037 FOR \$105,000

**ISSUES:**

Recommend that the City Council adopt a Resolution waiving the formal bidding requirements and declaring the Emergency Repair Work to Replace an Inoperable 12-inch Valve at Linden Booster Station an urgent necessity for the preservation of life, health or property and waiving the formal public bidding requirements in accordance with section 1109 of the City Charter; approve a construction contract in the amount of \$53,695 to Weka, Inc. of Highland California, for the emergency construction repairs; and approve the expenditure of \$105,000 for Work Order No. 1819037 for all design, construction, construction management and inspection costs to construct the emergency repairs.

**RECOMMENDATIONS:**

That the Board of Public Utilities:

1. Recommend that the City Council:
  - a. Adopt, by at least five affirmative votes, the attached Resolution declaring the Emergency Repair Work to Replace an Inoperable 12-inch Valve at Linden Booster Station an urgent necessity for the preservation of life, health or property waiving the formal public bidding requirements in accordance with section 1109 of the City Charter;
  - b. Approve a construction contract, in the amount of \$53,695 to Weka, Inc. for the emergency construction repairs;
  - c. Authorize an 18.86% (\$10,000) change order authority for the construction contract with Weka, Inc. for the emergency repairs; and
2. Approve the expenditure of \$105,000 for Work Order No. 1819037 which includes all design, construction, construction management and inspection costs for the Emergency Repair Work to Replace an Inoperable 12-inch Valve at Linden Booster Station.

**BACKGROUND:**

Linden Booster Station (Linden) is the largest booster station owned and operated by the City of Riverside Public Utilities Department (RPU). Linden is a critical facility that supplies water to both Emtman and Sugarloaf reservoirs. Linden consists of four pumps, which are all needed during the high water demand

season (summer months). Normally two pumps are sufficient to supply water to the reservoirs during the low demand season (winter months). However, historically, all four booster pumps have been utilized even during what is traditionally considered the low demand season.

On January 16, 2018, the suction valve supplying water to one of the four pumps (Pump No. 3) was found to be inoperable, rendering this pump unusable. The failure of another pump combined with the increase in demand due to a large fire or rise in temperatures will limit the ability of the booster station to supply water to Emtman and Sugarloaf reservoirs, thus, reducing water supply and pressure to homes and businesses.

Replacing the inoperable valve will require shutting down all four pumps at Linden and can only be completed during the winter months. If repairs are not made now, RPU will need to go through the hotter season with an impaired booster station that will impact the ability to serve RPU water customers, including providing sufficient fire flow, the latter of which is critical for the preservation of life, health or property.

### **DISCUSSION:**

The work to replace a 12-inch valve is ordinarily fairly straightforward. However, the inoperable valve at Linden is buried very deep in a confined area with several utilities in close proximity to and crossing the trench. In order to replace the valve, careful excavation and specialized trench shoring will be required.

The work will require Linden to be isolated and taken offline for a short time during the valve replacement work under a round-the-clock operation. The work will not affect service to RPU water customers.

### *Resolution*

Due to the urgency of replacing the valve, staff did not have sufficient time to competitively procure the work for the project through an advertisement for bids. Section 1109 of the City Charter provides that such contracts may be let without advertising for bids if such work or supplies or materials shall be deemed by the City Council to be of urgent necessity for the preservation of life, health or property, and shall be authorized by resolution passed by at least five affirmative votes of the City Council and containing a declaration of the facts constituting such urgency.

Staff expects to seek City Council approval for this matter on February 27, 2018.

### *Contractor Selection*

Two price quotations for this emergency work were received on January 22, 2018 and are summarized in the table below:

	<b><u>COMPANY</u></b>	<b><u>CITY LOCATION</u></b>	<b><u>BID TOTAL</u></b>
1.	<b>Weka, Inc.</b>	<b>Highland, CA</b>	<b>\$53,695</b>
2.	<b>C.P. Construction Co., Inc.</b>	<b>Upland, CA</b>	<b>\$69,900</b>

► *Engineer's Construction Cost Estimate \$60,000*

Due to the emergency nature of this project, on January 23, 2018, the Purchasing Manager issued an emergency Purchase Order No. 183385 to Weka, Inc. of Highland, California in the amount of \$53,695 for the replacement of the 12-inch valve, in accordance with Purchasing Resolution No. 23256, Article Three: Emergency procurement. This Article provides that the Purchasing Manager may authorize work and issue emergency purchase orders "to protect the public health, welfare, safety, property..." This Article also provides that for such urgent procurements in excess of \$50,000, the City Council must approve such procurement by adopting a resolution, by at least five affirmative votes, and such resolution must set forth a declaration of the facts constituting such emergency.

*Work Order*

The total expenditure for Work Order No. 1819037 is estimated to be \$105,000, which includes all design, construction, construction management and inspection costs, as summarized in the following table:

<b>Description</b>	<b>Cost</b>	<b>Percent of Total</b>
Design	\$6,305	6.0%
Valve Replacement (Weka, Inc.)	\$53,695	51.1%
Construction Contingencies	\$10,000	9.5%
Construction Support (City Forces)	\$20,000	19.1%
Construction Management	\$5,000	4.8%
Inspection and Geotechnical Testing	\$10,000	9.5%
<b>Work Order Total</b>	<b>\$105,000</b>	<b>100.0%</b>

Due to the complicated nature of this project, the tight construction schedule and the importance of Linden Booster Station, staff recommends augmenting the City's standard change order allowance of ten-percent of the purchase order amount by increasing it to 18.62% or \$10,000. This will help ensure if any serious complications arise during construction, the project can still proceed on schedule, and Linden can be returned to service as quickly as possible.

*City Charter/Board Approval*

Section 1202(b) (2) of Article XII of the Riverside City Charter provides the following: "[A] purchase, or acquisition, construction, extension, enlargement, diminution or curtailment may be made without prior approval...(2) if there is an urgent necessity to preserve life, health or property (i) as determined by the Director of Public Utilities or (ii) if the amount exceeds \$100,000 by the Director of Public Utilities and the City Manager. As soon as practicable thereafter, the Director of Public Utilities shall take the matter under Section 1202(b)(2) to the Board of Public Utilities for ratification."

The Purchasing Manager, the City Manager and the Public Utilities General Manager (referred to in the Charter as "Director") approved the emergency construction contract to replace the valve.

The Purchasing Manager concurs that the recommended actions comply with the City of Riverside's Purchasing Resolution No. 23256.

The Board of Public Utilities meeting on February 12, 2018 is the soonest practicable date to seek Board approval for this work.

The project breakdown is as follows:

Project Breakdown:	
Engineering Performed By:	RPU Engineering staff
Construction to be Performed By:	Weka, Inc.
Anticipated Start Date:	January 2018
Anticipated Duration:	1 week
Coordination Required With:	<ul style="list-style-type: none"><li>▪ RPU Water Operations</li><li>▪ RPU Water Field Crews</li></ul>
Reimbursements:	None

**FISCAL IMPACT:**

The total fiscal impact is \$105,000. Sufficient funds are available in the Public Utilities' Pump Station Replacements Account No. 6230000-470802.

Prepared by: Michael Plinski, Utilities Interim Assistant General Manager/Water  
Approved by: Todd L. Jorgenson, Utilities Interim General Manager  
Approved by: John A. Russo, City Manager  
Approved as to form: Gary G. Geuss, City Attorney  
Certifies availability  
of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance and Administration

Attachments:

1. Presentation
2. Resolution

Project Site Map

