

# CONDITION ASSESSMENT AND SEISMIC EVALUATION OF THE EMTMAN, UNIVERSITY HEIGHTS AND ROSS WATER STORAGE RESERVOIRS – NOT TO EXCEED \$225,000

**Riverside Public Utilities** 

Board of Public Utilities October 26, 2020

#### **BACKGROUND**

1. RPU owns and operates 16 potable water reservoirs a. 108.5-million-gallon combined capacity

2. Varying sizes, ages and construction types

3. Periodically assess the condition of these reservoirs

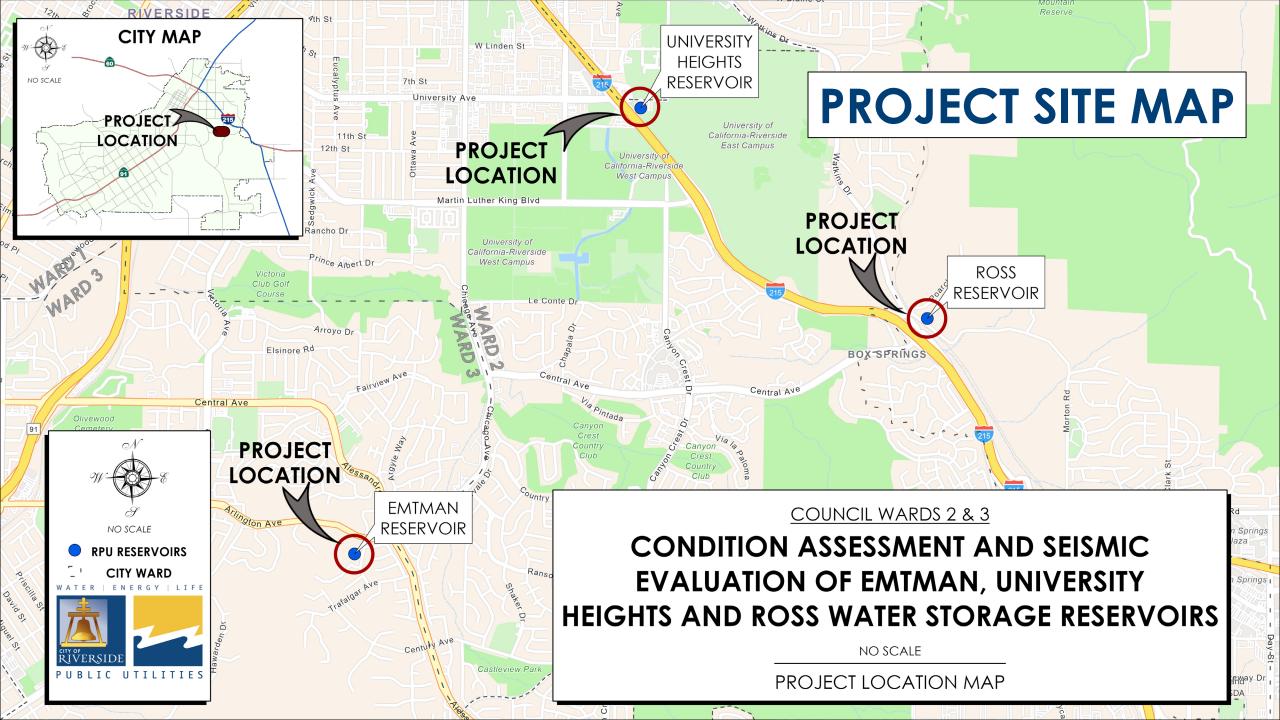


# **BACKGROUND (CONT.)**

- 4. Two reservoirs were assessed in FY2019/20:
  - a. Alessandro
  - b. Sugarloaf
- 5. Three reservoirs to be assessed in FY2020/21:

Reservoir Name	Capacity (Million Gallons)	Year of Construction
Emtman	5.0	1970
University Heights	5.0	1936
Ross	2.0	1977





## PROJECT DESCRIPTION

1. Drain each reservoir





2. Perform an inspection of the interior and exterior

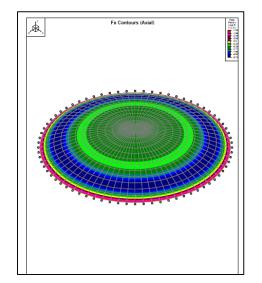


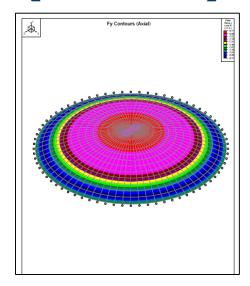




# PROJECT DESCRIPTION (CONT.)

3. Conduct a seismic evaluation





4. Pressure wash the interior walls and ceilings





# PROJECT DESCRIPTION (CONT.)

5. Sanitize the reservoirs before returning them to service



6. All other incidental work





### DISCUSSION

- 1. Staff is in the process of hiring a consultant from RPU/Water's consultant panel
- 2. Staff is in the process of hiring a contractor to pressure wash and sanitize the reservoirs
- 3. Minimize system disruptions:
  - a. The work is scheduled in the winter when demands are low
  - b. Reservoirs will be drained in sequence



# PROJECT BREAKDOWN

Project and Fiscal Breakdown		Emtman	University Heights	Ross	Total Project
Work Type:	Performed By:	Amount:	Amount:	Amount:	Amount:
Project Management, Field Support and Engineering Support	Internal Staff	\$25,000.00	\$25,000.00	\$25,000.00	\$75,000.00
Condition Assessment and Seismic Evaluation	Vendor to be Determined (Consultant Panel)	\$30,000.00	\$30,000.00	\$30,000.00	\$90,000.00
Pressure Wash and Cleaning	Vendor to be Determined (Informal Procurement)	\$20,000.00	\$20,000.00	\$20,000.00	\$60,000.00
Work Order Total:		\$75,000.00	\$75,000.00	\$75,000.00	\$225,000.00
Reimbursements:					None
Anticipated Start Date:					December 2020
Anticipated Duration:					3 Months



### **RECOMMENDATIONS**

#### That the Board of Public Utilities:

- Approve the capital expenditure for Work Order No. 2102178 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the Emtman Reservoir;
- Approve the capital expenditure for Work Order No. 2102181 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the University Heights Reservoir;
- Approve the capital expenditure for Work Order No. 2102182 in the amount of \$75,000 which includes all costs for the Condition Assessment and Seismic Evaluation of the Ross Reservoir; and
- 4. Authorize the City Manager, or designee, to execute supplemental agreements and any other documents necessary to effectuate the project described herein, as well as, the ability to make minor non-substantive changes including changes to each of the work order amounts but not-to-exceed the cumulative total of \$225,000 and in accordance with all purchasing policies.