



# DEMINERALIZED WATER TREATMENT SERVICES

## Riverside Public Utilities

**Board of Public Utilities**  
May 23, 2022

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## BACKGROUND

### **Riverside Energy Resource Center (RERC) and Clearwater Power Plants**

1. Combined, provides 224 megawatts of electricity
2. Operate during the most critical need
3. Very stringent regulatory requirements
4. Support summer peak electric demand

### **Demineralized Water Treatment**

1. Water essential for plant operations and environmental compliance
2. Water injection-common practice in gas turbine industry
3. Ultra-pure demineralized water prevents internal damage



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## BACKGROUND - RERC



1. 30,000 gallons of demineralized water per hour
2. Zero Liquid Discharge requirement
3. Uses reclaimed water
4. Mobile Demineralizer
  - a. 150,000 gallons per exchange
  - b. Two exchanges per day
  - c. High demand during summer months
  - d. Variable factors impacting usage
  - e. Logistics with exchanges

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## BACKGROUND - CLEARWATER



1. 1,500 gallons of demineralized water per hour
2. Water Treatment Facility
  - a. Riverside owned
  - b. Numerous equipment and treatment stages
  - c. Staff requires expert assistance

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## REQUEST FOR PROPOSAL 2129

1. Limited options with vendors
2. RFP No. 2129 posted on September 29 and closed on October 28, 2021
  - a. One proposal received from Suez Water Technologies and Solutions Services USA, Inc.
  - b. Not unusual based on historical efforts for obtaining specialized services
3. Proposal evaluated based on weighted selection criteria
  - a. Qualifications(25% - 25 points)
  - b. Pricing(35% - 35 points)
  - c. Experience, Approach, Methodology(40% - 40 points)



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## SUEZ WATER TECHNOLOGIES

1. Received a score of 92.17 points out of 100
2. Proven experience and reliable service
3. Met all the criteria of RFP
4. Favorable pricing
4. Providing stand-by mobile system trailers during summer peak at no extra charge



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## FISCAL IMPACT

1. Water cost connected to plant operations
2. Annual budget of \$800,000 developed from historical operations
3. \$500,000 encumbered and \$300,000 reserve
4. Only actual expenditures will be charged to the Generation Budget
5. Each fiscal year, staff will review the budget and seek Board Approval through the Annual PO approval process

Beginning of Contract Year	Annual Budget
2022	\$800,000
2023	\$800,000
2024	\$800,000
2025	\$800,000
2026	\$800,000
2027	\$800,000
2028	\$800,000
2029	\$800,000
Total	\$6,400,000



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## STRATEGIC PLAN ALIGNMENT



**No. 4. Environmental Stewardship**



**No. 5. High Performing Government**



**No. 6. Infrastructure, Mobility & Connectivity**

### Cross Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



Innovation



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## RECOMMENDATIONS

That the Public Utilities Board:

1. Approve an agreement with Suez Water Technologies and Solutions Services USA, Inc., of Norfolk, Virginia, to provide as-needed demineralized water treatment services for a five-year term with three optional one-year extensions in the amount of \$800,000 per year and a total of \$6,400,000 for eight years; and
2. Authorize the City Manager, or designee, to execute the Agreement and the optional contract extensions with Suez Water Technologies and Solution Services USA, Inc., including making minor non-substantive changes.



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