

## STAFF REPORT

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**Date:** June 14, 2023

**To:** Mayor and City Council

**Thru:** Doug Thornley, City Manager

**Subject:** Staff Report (For Possible Action): Approval of Consulting Agreement for Construction Administration Services with HDR Engineering, Inc. for the Truckee Meadows Water Reclamation Facility Thickened Waste Activated Sludge Improvements Project in the amount of \$332,960 with Reno's share being \$228,510.45. (Sewer Fund)

**From:** Matt Smith, Senior Civil Engineer

**Department:** Utility Services

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### **Summary:**

Due to the corrosive nature of wastewater treatment processes, the Truckee Meadows Water Reclamation Facility's (TMWRF) thickened waste activated sludge (TWAS) pumps, piping, and process-related equipment degrade over time and are in need of replacement. Construction administration and special inspection services are necessary for the TMWRF TWAS Improvements Construction Project. HDR Engineering, Inc. (HDR) is a qualified engineering consultant for the construction management of this project because of their experience designing the project, and their familiarity with the operational and maintenance constraints at TMWRF. This project is listed in the FY 2023 Capital Improvement Program, and staff recommends approval of the agreement with HDR in an amount not to exceed \$332,960 (Reno's share being \$228,510.45 from the Sewer Fund).

### **Alignment with Strategic Plan:**

Infrastructure, Climate Change, and Environmental Sustainability

### **Previous Council Action:**

April 28, 2021 – Council approved a Consulting Agreement for Engineering Design Services with HDR Engineering, Inc. for the TMWRF TWAS Short Term Improvements and Predesign Project

### **Background:**

TMWRF is jointly owned by the Cities of Reno and Sparks, and was originally constructed in

1964. As part of the treatment process, a portion of the solids generated from the wastewater are returned to the beginning of the secondary treatment process for biological nutrient removal, while the remainder of the solids are wasted, thickened, and conveyed to the digestion and dewatering processes. The thickening process for the wasted solids includes solids separation using Dissolved Air Flotation Thickeners (DAFTs) to float and collect the less dense materials. The thickened solids are collected from the top of the DAFTs and pumped across the facility to the digestion and dewatering process before being hauled to the landfill. The TWAS facility was built in 1978 and the equipment being used is well past its useful life and obsolete. In the past, staff has needed to custom fabricate parts for this equipment since the original manufacturers are no longer in business, leading to increased risk of failure, and increased operational and maintenance costs.

As part of the TMWRF Capital Improvement Program (CIP), “Risk Ranking” and paired comparison of infrastructure identifies project priorities, condition, and risk of failure. The Fiscal Year 23 ranking process identified thickened waste activated sludge improvements as priority #5.

Also on today’s agenda for Council consideration in conjunction with this agreement is the construction bid award to TNT Industrial Contractors, Inc. (TNT) to perform the construction for the TMWRF TWAS Improvements Project.

**Discussion:**

This item includes construction administration, engineering services during construction, and special inspection services required for the TMWRF TWAS Improvements construction contract. Inspection reports and quality assurance inspection and testing will be completed to assure construction and installation methods are performed in accordance with manufacturer’s recommendations.

**Financial Implications:**

This project is approved in the City Council FY23 CIP and respective TMWRF Joint Coordinating Committee annual budget with available Sewer Funds. The City of Reno will administer the agreement and will be reimbursed for a portion of the costs by the City of Sparks through the current cost sharing agreement for TMWRF operations and maintenance. The City of Reno and the City of Sparks share the cost of this project as follows: 68.63% for Reno and 31.37% for Sparks, as shown in Table 1. Costs for the City of Reno are budgeted in the Sewer Fund.

**Table 1 – Cost Sharing Between Reno and Sparks**

<b>Total Cost of Contract</b>	<b>Reno Share</b>	<b>Sparks Share</b>
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\$332,960	\$228,510.45	\$104,449.55
<b>Percentages</b>	68.63%	31.37%

**Legal Implications:**

The parties are bound by the terms of the agreement as prepared by the Office of the City Attorney.

**Recommendation:**

Staff recommends Council approval of the consultant agreement with HDR for construction administration services for the TMWRF TWAS Improvements Project in an amount not to exceed \$332,960, with the City of Reno's portion being \$228,510.45 (Sewer Fund), and authorize the Mayor to sign.

**Proposed Motion:**

I move to approve the staff recommendation.

**Attachments:**

- Area & Vicinity Map for TWAS Improvements Project
- TMWRF TWAS Improvements Project CA Agreement - HDR Signed