

STAFF REPORT

Date: April 12, 2023

To: Mayor and City Council

Thru: Doug Thornley, City Manager

Subject: Staff Report (For Possible Action): Award of Contract to Resource Development Company dba Farr Construction Corporation for the 2023 Truckee Meadows Water Reclamation Facility Secondary Clarifier 2A Rehabilitation Project in the amount not to exceed \$947,100 with Reno's share being \$649,994.73. (Sewer Fund)

From: Matt Smith, Senior Civil Engineer

Department: Utility Services

Summary:

Due to the corrosive nature of wastewater treatment processes, the Truckee Meadows Water Reclamation Facility's (TMWRF) clarifier components degrade and are in need of repair/rehabilitation. The goal of the 2023 TMWRF Secondary Clarifier 2A Rehabilitation Project is to improve the condition of the concrete tank infrastructure and repair and coat steel components as necessary. The project also includes limited concrete and joint replacement within Centrate Storage Tanks 2A and 1C. Staff advertised this project on the Reno Gazette Journal and through the City's bidding portal, PlanetBids. Twenty-eight days were allowed for bidding, from February 9 to March 9, 2023. Resource Development Company dba Farr Construction Corporation (RDC) submitted the best bid pursuant to the requirements established in Nevada Revised Statute (NRS) Chapter 338. This project is listed in the FY 2023 Capital Improvement Program, and staff recommends contract award to RDC in an amount not to exceed \$947,100 for the base bid and project contingency (Reno's share being \$649,994.73 from the Sewer Fund).

Alignment with Strategic Plan:

Infrastructure, Climate Change, and Environmental Sustainability

Previous Council Action:

May 18, 2022 – Council adopted the FY23 Capital Improvement Plan (CIP)

Background:

TMWRF is jointly owned by the Cities of Reno and Sparks, and was originally constructed in 1964. Secondary clarifier 2A and the centrate storage tanks were added in the 1978 TMWRF expansion. Clarifier are settling tanks that removal solids particulates from the waste water as the solid materials settle to the bottom of the tank. The clarifiers use mechanical scrapers to collect the remove the deposited solids as part of the treatment process. Centrate is a nutrient-rich, corrosive byproduct of the dewatering process, and must be stored in the centrate tanks for treatment. The clarifiers and centrate storage tanks are primarily constructed of reinforced concrete with sealed concrete joints and a carbon steel mechanism. Over time, the harsh environment of wastewater and centrate degrade the concrete and steel, and periodic repairs to the tanks must be performed for continued operation. Centrate storage tanks 2A and 1C currently pose an active safety concern with joint failure to the point of leaking centrate into the neighboring pipe gallery. In addition to degradation and failure in the tank structures, corrosion of the mechanical piping and other components inside the tanks has also occurred and the extent of the degraded steel must be identified and replaced.

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 clarifier and centrate storage tank rehabilitation as priority #7.

Also on today’s agenda for Council consideration is the agreement for construction administration services with BJG Architecture & Engineering as a separate, but related item.

Discussion:

This project includes the rehabilitation of a secondary clarifier and two centrate storage tanks including repair and coating of steel components, repair of the concrete walls and floor, and replacement of concrete joint seals.

Staff conducted a public bid for this project. Two contractors submitted bids, which were received and opened on March 9, 2023. Staff evaluated RDC’s bid, and it met the criteria under NRS Chapter 338. RDC submitted the lowest responsive bid of \$947,100. RDC is a General Contractor licensed in Nevada, and they have previously completed several projects for the City that included similar work.

Table 1 – Bid Summary

2023 TMWRF Secondary Clarifier 2A Rehabilitation Project	Engineer’s Estimate	Resource Development Co. dba Farr Construction Corp. (RDC)	K G Walters Co. Inc.
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Base Bid	\$1,100,000	\$772,100	\$999,900
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Staff recommends award to RDC for an amount not to exceed \$947,100, which includes a contingency allowance of \$175,000 for anticipated repairs to the steel mechanism after sandblasting, and additional unforeseen conditions encountered during construction (City of Reno's share being \$649,994.73 from the Sewer Fund).

Table 2 – Recommended Bid Award

Base Bid	\$621,000
Bid Alternate No. 1	\$151,100
Contingency	\$175,000
Bid Award	\$947,100

The consequences of not awarding this bid today will result in the delay of the clarifier and centrate storage tanks rehabilitation, which will have adverse effects on TMWRF operations, additional costs to repair and replace critical infrastructure with additional failure points, and continue to be a safety hazard.

Financial Implications:

Utility services has allocated funds for TMWRF capital improvement projects, as outlined on pages 246 and 261 in the Council approved City of Reno Annual Budget for FY23. The 2023 TMWRF Secondary Clarifier 2A Rehabilitation Project is included in the current fiscal year's CIP as approved by the TMWRF Joint Coordinating Committee (JCC). The City of Reno will administer the contract 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 3. Costs for the City of Reno are budgeted in the Sewer Fund.

Table 3 – Cost Sharing Between Reno and Sparks

Total Cost of Contract	Reno Share	Sparks Share
\$947,100	\$649,994.73	\$297,105.27
Percentages	68.63%	31.37%

Legal Implications:

This Contract was competitively bid in accordance with NRS Chapter 338. NRS338.147 provides that local government shall award a contract for public work for which the estimated

cost exceed \$250,000 to the contractor who submits the best bid pursuant to the requirements of the chapter.

Recommendation:

Staff recommends Council award of Contract to RDC for the 2023 TMWRF Secondary Clarifier 2A Rehabilitation Project in an amount not to exceed \$947,100, with the City of Reno's portion being \$649,994.73 (Sewer Fund), and authorize the Mayor to sign.

Proposed Motion:

I move to approve the staff recommendation.

Attachments:

- Area & Vicinity Map for the 2023 TMWRF Secondary Clarifier 2A Rehabilitation Project 2023
- TMWRF Secondary Clarifier 2A Rehabilitation Project Construction Contract - RDC