

STAFF REPORT

Date: April 12, 2023

To: Mayor and City Council

Thru: Doug Thornley, City Manager

Subject: Staff Report (For Possible Action): Approval of Consulting Agreement for Engineering Design Services with Atkins North America, Inc. for the Truckee Meadows Water Reclamation Facility Plant-wide Manhole and Drain Rehabilitation Project in the amount of \$226,030 with Reno's share being \$155,124.39 (Sewer Fund).

From: Matt Smith, Senior Civil Engineer

Department: Utility Services

Summary:

Truckee Meadows Water Reclamation Facility (TMWRF) has an extensive plant drainage consisting of a network of manholes, catch basins, and underground pipe systems responsible for conveying stormwater and internal plant process flows by gravity to the plant influent pump station. Most of the plant drainage infrastructure has been in use since 1964, and has never been evaluated or rehabilitated. Atkins North America, Inc. (Atkins) performed an evaluation of one of the more recently built manholes (2004) due to safety concerns and found that the manhole was in critical condition. This agreement with Atkins is to provide engineering assessments for all the drainage infrastructure at the plant, and to provide rehabilitation recommendations and priorities based on their findings. Staff recommends Council approve the Agreement for Engineering Design Services with Atkins as described in the attached scope of work in an amount not to exceed \$226,030 (Reno's share being \$155,124.39 from the Sewer Fund).

Alignment with Strategic Plan:

Fiscal Sustainability

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 built in 1964

with plant expansions occurring in 1978, 1985, and 2004. Throughout TMWRF, manholes, catch basins, and underground pipes route stormwater runoff and other flows back to the beginning of the treatment processes. Over time, these concrete structures degrade and need to be replaced or repaired in order to continue conveying flow. In October 2022, Atkins performed an assessment of Manhole ‘E’, one of the many facility drain manholes, due to visible corrosion and safety concerns. Manhole ‘E’ is one of the newer manholes installed in 2004, and was assessed to be in severe condition with immediate needs for rehabilitation. The severity of Manhole ‘E’ lends to additional concern regarding the other manholes, especially the manholes constructed with the original facility in 1964.

Discussion:

This project includes the evaluation of and rehabilitation recommendations for all the manholes and catch basins on the facility-wide drainage system. CCTV or video investigations for areas of major corrosion and a facility-wide hydrological study are included as owner directed items and will only be performed on an as-needed basis.

Financial Implications:

The City 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 TMWRF Plant-Wide Manhole and Drain 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 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

Total Cost of Agreement	Reno Share	Sparks Share
\$226,030	\$155,124.39	\$70,905.61
Percentages	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 Atkins for engineering design services for the TMWRF Plant-wide Manhole and Drain Rehabilitation Project in an amount not to exceed \$226,030 with the City of Reno's portion being \$155,124.39 (Sewer Fund), and authorize the Mayor to sign.

Proposed Motion:

I move to approve the staff recommendation.

Attachments:

- **Area & Vicinity Map for TMWRF Plant-wide Manhole and Drain Rehabilitation Project**
- **TMWRF Plant-wide Manhole and Drain Rehabilitation Project Agreement - Atkins**