

## STAFF REPORT

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**Date:** January 10, 2018

**To:** Mayor and City Council

**Thru:** Sabra Newby, City Manager

**Subject:** **B.7. Staff Report (For Possible Action): Approval of Consulting Agreement with BJG Architecture & Engineering for Engineering Services for the Truckee Meadows Water Reclamation Facility (TMWRF) Aeration/Post-Air/Spent Backwash Tanks Rehabilitation Project in the amount of \$49,310 with the City of Reno's share being \$33,841.45. (Sewer Fund)**

**From:** Dave Kershaw, Associate Civil Engineer

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**Summary:** Consultant engineering services are required for the Truckee Meadows Water Reclamation Facility (TMWRF) Aeration / Post-Air / Spent Backwash Tanks Rehabilitation Project. Staff recommends Council approve the Agreement for Consultant Services with BJG Architecture & Engineering (BJG) for design and professional engineering services as described in the attached proposal in an amount not to exceed \$49,310, with the City of Reno's portion being \$33,841.45 (Sewer Fund).

**Background:** The Truckee Meadows Water Reclamation Facility (TMWRF) is jointly owned by the Cities of Reno and Sparks. The City of Reno oversees the Capital Improvement Program for TMWRF, while the City of Sparks manages operations.

Over years of continuous operation, the tank structures and mechanical equipment require repairs and rehabilitation. The reliable operation of each of the aeration, post-air and spent filter backwash tanks at TMWRF is critical to the performance of the plant. Annual repair and rehabilitation of the tanks is included in the Joint Coordinating Committee approved TMWRF Capital Improvement Program.

**Discussion:** This scope provides for condition evaluation of multiple process tanks and final design of rehabilitation improvements for the spent backwash tank. The limited evaluation will provide staff with guidance on current condition and prioritization of rehabilitation of four aeration tanks, the post-air tank and the filter backwash tank. Based on TMWRF staff experiences, equipment failures and recent inspection, it has already been determined that the spent backwash tank is the highest priority for rehabilitation efforts. Therefore, this scope also includes design of rehabilitation improvements for the spent backwash tank. The spent

backwash tank design work will include development of bidding and construction documents for the rehabilitation of expansion joints, tank floor, tank walls, paddle system, and steel coating. This work is considered necessary to prevent further deterioration of aging concrete, steel structural components, and mechanical paddle system which if not addressed could develop into more significant repair needs and compromise the treatment plant operations.

The scope of work tasks, as detailed in the attached scope include development of construction plans, specifications and bid documents, opinion of probable construction costs, and bidding support services. BJB was selected from the City’s approved list of engineering consultants.

**Financial Implications:** 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 operation and maintenance. The City of Reno and the City of Sparks share the cost of this project as follows: 68.63 percent for Reno and 31.37 percent for Sparks, as shown in Table 1. Costs for the City of Reno are budgeted in the Sewer Fund. This project is included in the TMWRF Capital Improvement Plan that was approved by the Joint Coordinating Committee.

Table 1 - Cost Sharing Between Reno and Sparks

<b>Total Cost of Agreement</b>	<b>Reno Share</b>	<b>Sparks Share</b>
\$49,310	\$33,841.45	\$15,468.55
Percentages	68.63%	31.37%

**Legal Implications:** Legal review has been completed for compliance with City procedures and Nevada Law.

**Recommendation:** Staff recommends Council approve the Agreement for Consultant Services with BJB Architecture & Engineering (BJB) for design and professional engineering services as described in the attached proposal in an amount not to exceed \$49,310, with the City of Reno's portion being \$33,841.45 (Sewer Fund), and authorize the Mayor to sign.

**Proposed Motion:** I move to approve staff recommendation.

**Attachments:**

- TMWRF Backwash Tank Design Agreement (PDF)