

## STAFF REPORT

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**Date:** 27 April, 2016

**To:** Mayor and City Council

**Thru:** Andrew Clinger, City Manager

**Subject:** **Staff Report (For Possible Action): Approval of consultant services agreement between HDR Engineering, Inc. (HDR), the City of Reno and the City of Sparks for Consulting Engineering Services for the Truckee Meadows Water Reclamation Facility (TMWRF) Nitrification System Control Valve Phase 2 Replacement Project in the amount of \$175,360.00, with Reno's share being \$120,349.57 (Sewer Enterprise Fund).**

**From:** David Kershaw, Associated Civil Engineer

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**Summary:** The Truckee Meadows Water Reclamation Facility (TMWRF) operates six nitrifying filters (NTFs) as part of the nitrogen removal process. All six NTFs must be operational for TMWRF to meet the discharge permit nitrogen limits mandated by the Nevada Division of Environmental Protection (NDEP). The aging infrastructure is making operations more difficult. The attached scope of work with HDR includes the design for the repair, replacement, and retrofit of control valves and electric actuators needed to properly operate nitrogen removal process. These improvements will help the reclamation facility continue to successfully and reliably meet required discharge requirements. Staff recommends Council approve the Agreement for consultant services with HDR for design and professional engineering services as described in the attached proposal in an amount not to exceed \$175,360.00. (Reno's share being \$120,349.57 from the Sewer Enterprise Fund).

**Background:** The control valves for the NTFs must be operated at least twice per week as part of a snail mitigation treatment procedure critical to the operation and maintenance of the NTFs and TMWRF's operation. The filters can only be taken offline for 4 to 6 hours at a time. Most of the valves do not have motor actuation, and can be difficult or time consuming for staff to operate. Several of the control valves are presently direct buried and operational difficulties are being encountered which includes leakage when closed. Some of the flow meters associated with the NTFs and nitrogen removal process do not currently operate or are not accurate. This project is being completed in two phases. The initial phase of work was completed this last year. The Phase 2 work will build off of previous work completed during Phase 1 and address the remaining valves and meters.

**Discussion:** The scope of work includes final replacement design for 17 valves ranging in size from 4 inches to 36 inches, installation of electric actuators, repairing and/or replacing two existing flow meters, minor piping modifications and associated appurtenances. The scope of work tasks, as detailed in the attached agreement, include development of construction plans, specifications and bid documents, opinion of probable construction costs, and bidding support

services. HDR Engineering, Inc. 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% for Reno and 31.37% for Sparks, as shown in Table 1. Costs for the City of Reno are budgeted in the Sewer Enterprise Fund. The project is included in the TMWRF Capital Improvement Plan approved by the Joint Coordinating Committee (JCC).

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

<b>Total Cost of Contract</b>	<b>Reno Share</b>	<b>Sparks Share</b>
\$175,360.00	\$120,349.57	\$55,010.43
<b>Percentages</b>	68.63%	31.37%

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

**Recommendation:** Staff recommends Council approve the Agreement for consultant services with HDR for design and professional engineering services as described in the attached proposal in an amount not to exceed \$175,360.00. (Reno’s share being \$120,349.57 from the Sewer Enterprise Fund) and authorize the Mayor to execute the attached Agreement.

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