

## STAFF REPORT

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**Date:** January 14, 2015

**To:** Mayor and City Council

**Thru:** Andrew Clinger, City Manager

**Subject:** Staff Report (For Possible Action): Approval of an amendment to the Consulting Agreement between HDR Engineering, Inc. (HDR) and the City of Reno and Sparks for Engineering Services associated with the Truckee Meadows Water Reclamation Facility (TMWRF) Nitrifying Trickling Filters Valve Vaults in the amount of \$57,744 with Reno's share being \$36,629.71 (Sewer Enterprise Fund).

**From:** Glen Daily, Associate Civil Engineer

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**Summary:** Before Council for consideration is an amendment to the Consulting Agreement between HDR and the City of Reno and Sparks for additional engineering design services to modify the design to replace existing valves with direct buried, electric actuated valves, add additional valve replacement work to the original scope, and eliminate vault construction from the project design. Staff requests Council approval of the Amendment to the Agreement with HDR in an amount not to exceed \$57,744.00 with Reno's share being \$36,629.71.

**Previous Council Action:** Approval of Consulting Agreement on November 6, 2013

**Background:** TMWRF operates six nitrifying filters (NTF's) as part of the nitrogen removal process. This is a very critical stage of TMWRF's treatment process and all six NTF's must be operational for TMWRF meet the discharge permit nitrogen limits mandated by the Nevada Division of Environmental Protection (NDEP). TMWRF originally requested that the project design scope be to replace the aging control valves for the NTF's and also house the new valves in full access vaults. Through detailed design it was determined that the construction process necessary to retrofit the control valves for the NTF's would be extremely complex requiring vaults in excess of 20-ft. deep and working around existing 24-36 in. diameter piping which must remain operationally active through the construction. Bids received for the project incorporating designs for full access vaults revealed the cost for the individual vaults to exceed \$200,000 in some cases.

**Discussion:** After bids came in above the engineer's estimate and amount budgeted for the construction, staff and HDR analyzed the bids received and it was determined that the cost for the vault construction greatly exceeded the original estimates for this portion of the project. The contractors bidding the project also expressed concerns about being able to meet the contract requirements for maintaining operation of the NTF's while building very large and complex

vaults around them. TMWRF decided that the need to retrofit the NTF’s with full access vaults though desirable did not justify their very high cost, and it was therefore decided to replace the existing valves with new direct bury valves and electric motor operators and eliminate the vaults from the project design. TMWRF also requested that additional valve replacements be included in the project where they feel failure of the existing aging critical control valves is imminent. The attached Amendment provides for additional engineering services to modify the design and rebid the project.

**Financial Implications:** The City of Reno will administer the construction contract 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 will share the cost of this Amendment as shown in Table 1 below:

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

<b>Total Cost of Amendment</b>	<b>Reno Share</b>	<b>Sparks Share</b>
\$57,744.00	\$39,629.71	\$18,114.29
Percentages	68.63%	31.37%

**Legal Implications:** The amended agreement is for engineering (design) services pursuant to NRS 332.115 (1)(b). The amendment at Article I provides that the consultant services are subject to NS 338.010 – 338.090 (prevailing wage) for all covered work.

**Recommendation:** Staff recommends Council approval of the amendment to the consultant Agreement with HDR for additional design services associated with the TMWRF Nitrifying Trickling Filters Valve Vaults in an amount not to exceed \$57,744 and authorize the Mayor to sign the Amendment.

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

**Attachments:**

- TMWRF NTF Valve Replacements - Contract Amendment with HDR Scope (PDF)
- TMWRF NTF Valve Agreement SIGNED 20131120 (PDF)