

## STAFF REPORT

---

**Date:** November 15, 2017

**To:** Mayor and City Council

**Thru:** Sabra Newby, City Manager

**Subject:** **Staff Report (For Possible Action): Approval of a Consulting Agreement for Construction Management Services with HDR Engineering, Inc. for the Truckee Meadows Water Reclamation Facility (TMWRF) RAS Pumping Improvements – System 1 Project in an amount not to exceed \$296,899, with the City of Reno’s portion being \$203,761.78 (Sewer Fund).**

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

---

**Summary:** Construction management services are required for the Truckee Meadows Water Reclamation Facility (TMWRF) RAS Pumping Improvements – System 1 Project. This scope of work will provide construction management services during project construction that includes construction management, engineering services during construction, inspection, testing and startup assistance. Staff recommends Council approval of the consultant agreement with HDR Engineering, Inc. (HDR) for construction management services for the TMWRF RAS Pumping Improvements – System 1 Project in an amount not to exceed \$296,899, with the City of Reno's portion being \$203,761.78 (Sewer Fund).

**Previous Council Action:**

**October 22, 2014:** Council approved an agreement for consultant services with HDR Engineering, Inc. (HDR) for professional engineering services in an amount not to exceed \$138,689, with Reno's share being \$95,182.26 (Sewer Fund).

**March 9, 2016:** Council approved consulting services agreement between HDR and the City of Reno for consulting engineering services for the Truckee Meadows Water Reclamation Facility (TMWRF) RAS-WAS System 1 Pumping Improvement Project design in the amount of \$499,412.00, with Reno's share being \$342,746.46 (Sewer Fund).

**Background:** One of the key treatment processes at the TMWRF consists of providing the correct balance of raw sewage (nutrients), air and microorganisms in a mixed-liquor aeration basin to properly treat the raw sewage. This process consists of providing the appropriate habitat to allow microorganisms to consume the biodegradable organics in the raw sewage and then provide a means for settling out the microorganisms, and returning a portion of the microorganisms to the front of the process and dispose of the remaining. During the process the microorganisms quickly grow in mass and need to be removed from the process on a consistent basis to maintain a balance between the food source (sewage inflow), air and microorganism mass. Operation of this process requires the ability to monitor and control the flows of sewage, activated sludge (microorganisms) and air into three different parallel treatment trains.

Therefore, TMWRF must monitor and control the flow of sewage, activated sludge (microorganisms) and air into each of the treatment trains.

**Discussion:** Based on the completed activated sludge system evaluation, and in concurrence with TMWRF staff review and input, key improvements in the system were identified as being needed to maintain system reliability and redundancy. The rehabilitation was divided into phases with System 1 having the highest priority. The improvements for pumping, piping, and control improvements in TMWRF's System 1 RAS and Waste Activated Sludge (WAS) management facility were designed, and bid. A recommendation for construction contract award for this project is scheduled to be considered by Council on November 15, 2017, as a separate, but related item.

This consultant agreement will provide construction management services during project construction that includes construction management, engineering services during construction, inspection, testing, startup assistance and O&M documentation. HDR 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 Fund. This project is included in the TMWRF Capital Improvement Plan that was approved by the Joint Coordinating Committee (JCC).

Table 1 - Cost Sharing Between Reno and Sparks

Total Cost of Agreement	Reno Share	Sparks Share
\$296,899	\$203,761.78	\$93,137.22
Percentages	68.63%	31.37%

**Legal Implications:** The agreement does provide that if any work is subject to prevailing wage per NRS 338.010 – 338.090. Legal review has been completed for compliance with City procedures and Nevada Law.

**Recommendation:** Staff recommends Council approval of the consultant agreement with HDR Engineering, Inc. (HDR) for construction management services for the TMWRF RAS Pumping Improvements – System 1 Project in an amount not to exceed \$296,899, with the City of Reno's portion being \$203,761.78 (Sewer Fund), and authorize the Mayor to sign.

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