

Agenda Report

File #: 2022-2360, **Version:** 1

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Originator: Riaz Moinuddin, Director of Operations & Maintenance

SUBJECT:

PLANT NO. 2 TRICKLING FILTER “A” ROTARY DISTRIBUTOR MAST REPLACEMENT

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Sole Source Purchase Order Contract to Ovivo USA, LLC (Ovivo) for a direct replacement Center Mast assembly for the Plant No. 2 Trickling Filter “A” solids contact, Secondary Treatment, in an amount not to exceed \$461,500, plus applicable sales tax and shipping; and
- B. Approve a contingency of \$46,150 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) Trickling Filters at Plant No. 2 consist of three 150-foot diameter. This Trickling Filter process provides secondary treatment rated at 60 MGD average during dry weather and approximately 182 MGD during peak wet weather capacities. The trickling filters are engineered to remove the organic content in wastewater utilizing micro-organisms living on the filter media. Each trickling filter is equipped with a motor-operated rotary distributor assembly to uniformly distribute the primary treated flow over the media.

RELEVANT STANDARDS

- Commitment to safety and reducing risk in all operations
- Maintain a proactive asset management program
- Maintain a culture of improving efficiency to reduce the cost to provide the current service level or standard

PROBLEM

During scheduled repair activities on the Trickling Filter A rotating gear mechanism, significant damage was found with the Trickling Filter A rotary distributor arm assembly. Trickling Filter A is not available to provide treatment until these structural failures are addressed.

PROPOSED SOLUTION

Staff recommends a sole source purchase order contract to replace the Trickling Filter A Center Mast Assembly by the original equipment manufacturer (OEM), Ovivo.

TIMING CONCERNS

The Trickling Filters at Plant No. 2 are critical assets that support secondary treatment requirements. With Trickling Filter A not available, there exists significant risk of not being able to provide the required secondary treatment at the Plant No. 2 trickling filter secondary process. In addition, this trickling filter process will provide all the secondary treatment for the Ground Water Replenishment System when the final expansion project comes on-line in early 2023.

RAMIFICATIONS OF NOT TAKING ACTION

Failure to act increases the risk to provide required secondary treatment at the Plant No. 2 trickling filter process.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

Ovivo is the Board of Directors Approved OEM for Plant No. 2 Trickling Filter parts and repairs.

A 10% contingency is requested due to potential delays due to additional unforeseen repairs that may become known. The center mast is covered by the hard filter media so that only the top portion is visible. The exact cause of the failure is not known. Additional repairs may be needed once the mast assembly has been removed and further assessments made, which cannot be performed until the filter media is removed.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. This item has been budgeted in the Adopted Budget Update Fiscal Year 2021-2022, Plant No. 2 Maintenance, Page 44 and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

N/A