



# Memorandum

**TO:** HONORABLE MAYOR AND  
CITY COUNCIL

**FROM:** Scott P. Johnson

**SUBJECT:** SEE BELOW

**DATE:** May 23, 2005

Approved

*Kay Winer*

Date

*5/31/05*

**SUBJECT: SOLE SOURCE PURCHASE OF ROTATING ASSEMBLY FOR THE  
RETURN NITRIFICATION ACTIVATED SEWAGE (A-2 RNAS) PUMP  
AT WATER POLLUTION CONTROL PLANT**

## RECOMMENDATION

Approval of sole source purchase of a Flowserve Rotating Assembly from Pacific Water Resources (Burlingame, CA), for a total cost not to exceed \$140,800.00, including tax and delivery, and authorization to the Director of Finance to execute the purchase order.

## BACKGROUND

Four Return Nitrification Activated Sewage (RNAS) pumps move effluent through the Water Pollution Control Plant to the Chlorine section before it is pumped into the Bay. These RNAS pumps are paired (A-side: # A1 & A2 and B-side: # B1 & B2). One pump in each pair operates continuously while the other pump serves as a backup. The backup pump on the A-side has had 10 years of useful life functioning as emergency stand-by only. It has a bad bearing and needs an overhaul to replace the rotating assembly to ensure continuous pump operation.

## ANALYSIS

While there are other brands of rotating assemblies, only the Flowserve rotating assembly's configuration is compatible with the existing Flowserve pump. The rotating assembly must fit into the existing volute and any new parts must have specific material thicknesses and tolerances.

The pump's underground location at the Plant was designed to have internal pump parts replaced to extend the pump's life. Replacing the existing rotating assembly for \$140,800 is the most cost effective solution to extend the life of the pump, when compared to the purchase of an entirely new pump at an estimated cost of \$800,000 (an estimated cost of \$500,000 for labor to de-install the existing pump and install a new pump and an estimated cost of \$300,000 for purchase of a new pump).

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Pump at Water Pollution Control Plant

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Pacific Water Resources is the exclusive Northern California distributor of Flowserve parts and products.

**OUTCOME**

Provide a reliable RNAS pump to insure an uninterrupted continuous operation at the Plant.

**PUBLIC OUTREACH**

Not applicable.

**COORDINATION**

This memorandum has been coordinated with the Environmental Services Department, the City Manager's Budget Office, and the Office of the City Attorney. This recommendation is scheduled for presentation to the Treatment Plant Advisory Committee (TPAC) on June 9, 2005.

**COST IMPLICATIONS**

This Council item is consistent with Council approved Budget Strategy Memo, General Principal #2, "We must focus on protecting our vital core city services"

**BUDGET REFERENCE**

Fund #	Appn #	Appn. Name	RC #	Total Appn.	Amt. for Contract	2004-2005 Adopted, Operating Budget Page	Last Budget Action (Date, Ord. No.)
513	0762	Non-Personal/Equipment	927200	\$27,588,421	\$140,800	VIII-50	10/12/04 27267

**CEQA**

Not a project.

  
SCOTT P. JOHNSON  
Director, Finance Department