

**METRO JPA/TAC**  
**Staff Report**  
**Date: January 18, 2023**

**Project Title:**

Pump Station 1 and 2 Improvements and Modernization – Capital Improvement Project (CIP)

**Requested Action:**

Informational Item

**Recommendations:**

Informational Item

Metro TAC:	Present to JPA as an informational item.
IROC:	No IROC presentation planned.
Prior Actions: (Committee/Commission, Date, Result)	N/A

**Fiscal Impact:**

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	The City is currently negotiating the design fee.

**Capital Improvement Program:**

New Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Existing Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input type="checkbox"/>

**Previous TAC/JPA Action:**

N/A

**Additional/Future Action:**

N/A

**City Council Action:**

Item to anticipated to be presented to the Environment Committee and City Council in February/March 2023 to create the CIP project and authorize appropriation and expenditure of funding for design.

Background: Provide background information on the need for the project

The City of San Diego's (City) Public Utilities Department operates wastewater conveyance, treatment and disposal facilities that serve both City of San Diego customers and the 12 participating agencies of the Metropolitan Joint Powers Authority (Metro JPA). Pump Stations 1 (PS 1) and 2 (PS 2) are the largest pump stations within the City's wastewater system. Wastewater from the South Bay region is delivered to PS 1 (located at 3550 East Harbor Drive, San Diego, CA 92101 near the border with National City) via the South Metro Interceptor (SMI). PS 1 has been in service since 1963 and has been upgraded in phases. In 1976, pumping capacity was increased from 4 to 5 pumps, and in 1993 capacity was increased with the addition of a 6th pump. PS 1 also has two (2) backup generators that were installed in 2015 to maintain

power to the pump station should the SDG&E utility power be lost. PS 1 discharges through the SMI sewer pipe in the downtown area, to PS 2, located west of the San Diego International Airport.

Pump Station 2 is the final pump station for the North Metro Interceptor (NMI) and SMI systems and is responsible for pumping all wastewater to the Point Loma Wastewater Treatment Plant for treatment and disposal. PS 2 has a design capacity of 432MGD (million gallons/day). PS 2 pumps an average daily flow of 140MGD. PS 2 has been in service since 1963 and has been upgraded in phases. In 1986, 1987 and 1992 additional pumps were added taking the total pumps from 5 to 8. In 1992 natural gas engines for Pumps No. 4 and 5 were added to provide multiple sources of power for the pump station. PS 2 also had two (2) backup generators installed in 2016 to maintain power to the pump station should the SDG&E utility power be lost.

The proposed capital project addresses improvements and modernization at both PS 1 and PS 2 since the operations of both pump stations are closely tied together. With a single designer, the proposed upgrades and equipment replacements can be more economically and efficiently designed while the improvements are done at the same time. A combined project will assist the acclimation of the City staff to the new equipment and increase operational flexibility to deploy staff at either location in the future.

A condition assessment was completed in 2018 which is the primary driver of the project.

**Discussion:** *Provide information on decisions made to advance the project*

N/A

**Bid Results:** *If bidding was done provide bidding format and results*

An RFP for a design consultant was issued in April 2022. Brown and Caldwell was selected. The City is currently finalizing the design fee.