




**MEMORANDUM**

DATE: May 15, 2015

TO: Chris Kern  
Senior Planner, San Francisco Planning Department

FROM: Kent Eickman   
Technical Services Manager

SUBJECT: Mission Bay Sanitary Pump Station

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This memorandum provides summary information on hydraulic studies for Mission Bay Sanitary Pump Station (MBSPS), including information from the San Francisco Department of Public Work's (SFPDW) initial hydraulic assessment completed in 2015.

**Background**

MBSPS was constructed within Block P15 of the Mission Bay Development area in 2011 and accepted by the City in 2012. This pump station receives only wastewater (dry-weather) flows from within the Mission Bay South area and is equipped with four submersible pumps. The pump station has a designed capability of pumping 6.0 mgd.

Under current conditions, existing wastewater flows are within the capacity of the Mission Bay Sanitary Pump Station. University of California, San Francisco (UCSF) has indicated to the SFPUC that under full build out of its recently approved Long Range Development Plan (LRDP), UCSF flows to this pump station will be 6.63 mgd, close to the most recently estimated capacity of 6.7 mgd. To address this, the LRDP recommends replacing the existing pumps to increase the capacity to 7.34 mgd to accommodate additional future flows from the UCSF Mission Bay Campus. However, this recommendation has not been approved by the SFPUC and the selected modifications would be need to designed and implemented.

**Monitoring and Additional Analysis**

In accordance with Mitigation Measure UTIL-MB-1 of UCSF's LRDP Environmental Impact Report, UCSF will monitor sanitary sewer flows to the Mission Bay Sanitary Pump Station in combination with on-going monitoring conducted by the SFPUC to determine when improvements to the pump station are required. SFPUC performed an investigation of the existing capacity of the pump station in May 2015. The results of this investigation are that the inflow to the pump station is within the original estimates.

Depending on the results of these studies, combined with more detailed information on development timelines within the Mission Bay south area, improvements to MBSPS may be required to accommodate full build out of the

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Mission Bay campus. These improvements could include actions such as replacing existing pumps with larger pumps; installing additional pumps; enlarging the pump station wet well and installing associated controls; and modifying or realigning the force main. Because existing flows are within the capacity of the Mission Bay Pump Station, the need for improvements is not immediate, but monitoring to be implemented by UCSF and the SFPUC will be used to determine the appropriate timing for the necessary improvements.

## **References**

University of California, San Francisco 2014 Long Range Development Plan  
Environmental Impact Report. August 2014. State Clearinghouse  
Number 2013092047.