

CITY OF YUBA CITY
STAFF REPORT

Date: October 7, 2014
To: Honorable Mayor & Members of the City Council
From: Department of Public Works
Presentation by: Michael Paulucci, Deputy Public Works Director - Utilities

Summary

Subject: Wastewater Treatment Facility Permit Exceedance Presentation
Recommendation: Note and file presentation.
Fiscal Impact: Informational item only.

Purpose:

To provide information on the treatment process, facility exceedances and corrective remedies.

Background:

The City's Wastewater Treatment Facility treats wastewater received from the City's collection system generated by community domestic, commercial and industrial users. The original facility was built in two phases with each phase being completed in 1972 and 1975, respectively. The facility was expanded in 2005 increasing the permitted flow from 7.0 to 10.5 million gallons per day, but many of the original process units still remain.

The City's discharge permit provides many effluent limitations, including a limitation on the settleable solids that can be discharged to the disposal ponds or Feather River. Over the past 14 years, the facility has exceeded the settleable solids limitation 23 times. The exceedances typically occur in the secondary clarifiers and are caused by several factors including biological, hydraulic, physical, mechanical, and equipment failure.

Analysis:

Over the years, risk management efforts to limit settleable solids exceedances include a condition assessment and inspection of the three existing secondary clarifiers, and staff efforts to manage and control the secondary treatment process. The facility is now at a point that risk management efforts by staff are no longer sufficient for long-term compliance. In the short term, staff will increase monitoring frequency and develop a process control response plan. In the long term, a fourth secondary clarifier is necessary.

Fiscal Impact:

The estimated cost for an additional secondary clarifier is \$4 Million. Staff will be including this project in the upcoming wastewater rate study for consideration for funding through rates.

Alternatives:

None.

Recommendation:

Note and file presentation.

Prepared by:

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