

**CITY OF COOS BAY CITY COUNCIL**  
**Agenda Staff Report**

<b>MEETING DATE</b> June 30, 2015	<b>AGENDA ITEM NUMBER</b>
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TO: Mayor Shoji and City Councilors

FROM: Jim Hossley, Public Works Director

THROUGH: Rodger Craddock, City Manager

ISSUE: Wastewater Treatment Plant No. 2 Outfall Repair

**BACKGROUND:**

In 2014, City Staff, as a part of City's NPDES permit renewal process, agreed with DEQ to have a mixing zone analysis performed for the outfall that serves Wastewater Treatment Plant No. 2. The City contracted with CH2M HILL to perform the analysis under the miscellaneous engineering services contract (City Project # 140091). Originally, it was assumed that the analysis would be based on the outfall diffuser configuration as observed in a dive report performed in 2009 and the 1975 Record Drawings (It is believed that construction commenced in 1973). However, further analysis of the as-built information and the 2009 dive report yielded inconsistencies between the two. It was concluded that for the purposes of modeling an accurate mixing zone that a new dive inspection should be performed. The City contracted with a diver in April 2015, and they received their dive report late May 2015. That report identified significant deterioration of the outfall since the 2009 investigation. The outfall was constructed with five diffusers at the end of the pipe that introduce the treated effluent into the bay and establish the dilution rates. The dive investigation determined that two of these ports are silted up, two are damaged, and one has broken off. In addition, there is a 3-4 inch gap in the top of the pipe near the end of the outfall.

Staff immediately contacted DEQ to inform them of the deteriorated outfall and to work with them on a solution. Staff also coordinated with CH2M HILL on the results of the dive investigation. After two conference calls with City staff, DEQ, and CH2M HILL it was recommended that an interim fix be performed on the diffuser until and ultimate fix can be designed, permitted, funded, and constructed.

**ADVANTAGES:**

An interim fix will provide the City with a new mixing zone study that will have high dilution rates for the pending NPDES permit renewal.

**DISADVANTAGES:**

Other than cost, staff sees not disadvantages.

**BUDGET IMPLICATIONS:**

Staff has requested a scope of work from CH2M HLL for the preparation and permitting of an interim fix for the outfall along with performing a revised mixing zone analysis based on the repairs. Staff will have the level of effort from the engineer at the Council meeting. Additionally, it has been estimated that the construction costs for the interim repair should not exceed \$70,000. If the City Council decides to proceed forward with this repair, the funds will be obtained from the Wastewater Improvement Fund (29-810-530-3010).

**ACTION REQUESTED:**

If it pleases the Council, approve \$100,000 for design and construction (bidding process to be performed upon completion of design and permitting) for the repair for the outfall that serves Wastewater Treatment Plant No. 2.