



# CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701-2724

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## Public Works Department

Wastewater Division

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### MEMORANDUM

TO: Terry Wolterstorff / Public Works Committee

FROM: Dave Van Cleave

DATE: June 25, 2013

RE: DENR Warning Letter

The warning letter sent out by the South Dakota Department of Environment and Natural resources was in regards to plant violations that occurred last summer. This is a standard form letter that is sent out by DENR. The violations in question were found to be caused by the corroded trickling filter piping, recently discovered Ultra Violet disinfection system issues, and algae and end of plant solids problems. These issues were previously presented to the Public Works Committee and City Council.

The problems that caused the violations were temporarily resolved by the repair work that the operations staff performed on the submerged piping at the end of last summer. No violations have occurred since the temporary repairs were completed. A permanent solution involved an investigation of the plant processes and equipment. As a result, a series of projects is proposed to address each of the problems listed.

The first step in a permanent solution is the project titled "Interim pump station Improvements" item PW062513-11. This project is to replace one trickling filter pump and also replace the sections of corroded piping. Additional projects that have been identified include: Replacement of the trickling filter pump station, Replacement of the Trickling Filter rotary distributors, Algae control alternatives, which include covering channels, and removing blind channels. Lastly, the investigation has revealed that the Ultraviolet Disinfection system is undersized for our facility and we are working with our consultant on the magnitude of the problem, and possible solutions.



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(Public Works Committee)

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The additional projects will be brought before the Public Works committee and council as soon as the preliminary investigation work is finalized, and the projects can be scheduled and funded.