

## Siloam Springs Wastewater Plant (AR0020273)

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Anthony Brown <abrown@siloamsprings.com>

Wed 2/10/2021 1:10 PM

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To: Brown, Christina;

Cc: Steven Gorszczyk <sgorszczyk@siloamsprings.com>;

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You replied on 2/10/2021 1:49 PM.

Christina,

I called and left a message on Tuesday, February 9, 2021, to inform you that the Siloam Springs Wastewater Plant is having issues due to cold weather feeding Sodium Bisulfite the chemical responsible for dechlorination. Once, this was discovered we shut off the chemical pumps that feed (12.5 %) Sodium Hypochlorite. Our permit requirements have an effluent limitation for Fecal Coliform Bacteria (FCB), (Nov-March) of 1000 colonies/100ml (Monthly Average), and 2000 colonies/100 ml (7-Day Average).

We have tested the final effluent from the final clarifiers and are well below the permitted values for (Nov-Mar). We can additionally, periodically feed Sodium Hypochlorite to keep the fecal coliforms within the required permit limitations. However, we are not able to dechlorinate without the use of Sodium Bisulfite. The effluent permitted limitations for Total Residual Chlorine (TCR) is <0.1 mg/l (Inst. Max.). We test the effluent chlorination residual daily and run Total Residual Chlorine (TRC), once per week.

The Sodium Bisulfite chemical lines have been freezing and or clogging resulting in the chemical not being able to be dosed on the aeration side of the effluent contact chamber before the Outfall (001). The City of Siloam Springs has spent countless hours digging, removing blockages, repairing these Sodium Bisulfite chemical lines. Sodium Bisulfite will start to crystallize at approximately 59° F. At lower temperatures, this chemical will eventually clog or freeze and will no longer be able to be fed through the chemical lines. We are working diligently to come up with a solution to mitigate the results of the Sodium Bisulfite freezing. Once the ground thaws, we will continue to dig up the chemical lines and clear any blockages so we can feed Sodium Bisulfite.

Should you need any further information, please do not hesitate to contact me.

*Tony Brown*

*Wastewater Superintendent*

*Pretreatment Coordinator*

975 Anderson Avenue, Siloam Springs, AR 72761

**Plant:** 479-524-5623

**Cell:** 479-228-2000