

Town of Murphy

Wastewater Treatment Plant Annual Report

July 2020- June 30, 2021

Prepared: July 28, 2021

Town of Murphy

P.O. Box 130

Murphy NC 28906

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Town Manager- Chad Simons – 828-837-2510 ext. 4

WWTP ORC- Tyler White – 828-557-1267

WWTP Permit # NC 0020940

1) Description of system of Treatment Process

The Town of Murphy Wastewater Treatment Plant (WWTP) utilizes a 1.4 MGD biological treatment process that includes two 730,000-gallon sequencing batch reactors (SBR), a 175,000-gallon post equalization basin, a chlorine contact basin which uses sodium hypochlorite for disinfection and a dichlorination basin which uses sodium bisulfite for dichlorination. The headworks consist of one mechanical bar screen and one manual bar screen bypass channel used as needed. There are two digestors that are combined 300,000-gallons which feed into a ¾ meter Phoenix belt press for dewatering. There is one Grundfos pump that is used to transfer the sludge to the belt press. The backup power system for the treatment plant is a 300KW Spectrum Detroit Diesel generator with an automatic transfer switch. The influent pumps used to feed the treatment plant are two 100HP submersible pumps with dual high-level alarms and SCADA system.

2) System Performance

The following summary of performance for the year July 1st, 2020, through June 30th, 2021. The system was in continuous operation for the time period reported. There was no major breakdown of equipment.

Violations of permit conditions and parameters

July 2020- No Violations

August 2020- No Violations

September 2020- No Violations

October 2020- No Violations

November 2020- Weekly Fecal Coliform Average Exceeded Due to Casino Lift Station

December 2020- No Violations

January 2021- Weekly Fecal Coliform Average Exceeded Due to Casino Lift Station

February 2021- No Violations

March 2021- No Violations

April 2021- No Violations

May 2021- No Violations

June 2021- No Violations

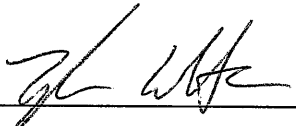
There were no bypass or spill violations.

3.) Notification

The Town of Murphy will notify if there are any.

4.) Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.



Tyler White, WWTP ORC

7/28/21

Date