

**Performance Annual Report
FY 2017/2018
Town of Rose Hill
Duplin County**

I. General Information

Facility/System Name: **Rose Hill Wastewater Treatment Plant**
Responsible Entity: Town of Rose Hill
Person in Charge/Contact: William Carl Wheeler
Applicable Permit: **NC 0056863**

II. Performance

The treatment facility has a permitted flow of 0.45 MGD which consists of influent screw pumps, bar screen, oxidation ditch, three (3) clarifiers, aerated sludge holding tank, five (5) sludge drying beds, chlorine disinfection basin and post aeration basin with sodium bisulfate infused. The Rose Hill Wastewater Treatment Plant's NPDES Permit was renewed on May 1, 2013 and expired on January 31, 2017. Our current permit is still in review by the State and once finalized, it will expire January 31, 2022.

Influent enters the system by gravity or pumps/force main to the headworks of the plant. From this unit, flow is conveyed by two screw pumps to a channel containing two bar screens. Wastewater then flows to an oxidation ditch which provides secondary treatment utilizing the activated sludge process. Oxidation ditch effluent flows in equal proportion to three clarifiers acting in parallel. Flow from the clarifiers then travels through piping to a chlorine contact chamber where disinfection is achieved by gas chlorine injection. The effluent is then dechlorinated and discharged by gravity outfall to Reedy Creek which is classified as Class C – Swamp waters in the Cape Fear River Basin.

Return Activated Sludge (RAS) from the clarifiers flows to a wet well which is then pumped into the aerobic digester (sludge holding tank). RAS/supernate flows back to the headworks and the process is then repeated. The waste sludge is diverted to a sludge holding tank and/or sludge is intermittently transferred to five sludge drying beds. The waste sludge is periodically hauled from the plant site by a contractor to a permitted land disposal site.

A. Wastewater exceeding annual parameters of permit.

1. During the last week of sampling for the month of April beginning 4/25/17 to 4/26/17 we received 5.92" of rain causing flow to increase substantially on both dates listed above...(Flow for April 25th: .4977 & April 26th: .5120) Due to increased flow during the sampling period there was a direct effect on my lab analysis for fecal : 1000 col/100mL & NH3: 1.19 mg/L.
2. January 27, 2018...describe NOV, even if assessment nor NOV not issued by the State.

B. PRETREATMENT


The Town of Rose Hill currently monitors 2 SIU's (Significant Industrial Users) in its Pretreatment Program. The processed water is conveyed through the collection system to the WWTP.

III. **Notification**

Notification of this report will be posted on the Town's website, August 30, 2018 and printed notification at Town Hall, and will be available for review and comments at the Rose Hill Town Hall.

IV. **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.



William Carl Wheeler
Town of Rose Hill
Wastewater Treatment ORC



Date