Hendersonville Water Sewer

City of Hendersonville
Wastewater Treatment Plant

System Performance Annual Report
July 1, 2020 - June 30, 2021

I. General Information:

A. Facility/ System Name:
Hendersonville Wastewater Treatment Plant

B. Responsible Entity:
City of Hendersonville

C. Operator-In-Responsible Charge (ORC):
Garrett DeMoss
305 Williams Street
Hendersonville NC 28792
(828) 697-3077
email: gdemoss@hvlnc.gov

D. Discharge Permit Number:
NC0025534

Non-Discharge Permit Numbers:
WQ0011381 (class A wastewater residuals distribution program)

E. Description of Treatment Process:

The influent pumping station has a manually cleaned trash rack to remove any large objects (rocks, sticks, etc.). This pump station has four (4) pumps with individual pumping capacities ranging from 700-gpm to 1180-gpm. At the head of the treatment plant the wastewater passes through two (2) inclined mechanical rakes and then through two (2) aerated grit chambers. Then, from the grit chamber the wastewater flows through two (2) 275-ft. diffused-air aeration units and then through two (2) 90-ft. in diameter secondary clarifiers. The sludge from the secondary clarifiers is returned back to the aeration units for additional treatment. The flow from the secondary clarifiers enters (1) Aqua Diamond cloth media filter. The effluent from the cloth media filter then flows through ultraviolet lights for disinfection and then on to Mud Creek where it is discharged into said creek. If there is a power outage the City has added a 1500 kW Cummins Diesel Generator.

II. Performance:

A. General:

The City of Hendersonville is required to monitor biochemical oxygen demand (BOD), fecal coliforms, removal rate, flow and total suspended solids (TSS).

BOD, mg/l	Fecal Coliforms, colonies/100-ml	Removal Rate	Flow, MGD	TSS, mg/l
10/15, 20/30	200	85%	4.8	30/45

The averages for the twelve-month period of July 2018 to June 2019 are as follows:

BOD, mg/l	Fecal Coliforms, colonies/100-ml	Removal Rate	Flow, MGD	TSS, mg/l
3.6	19	98.6% (BOD and 98.6% (TSS)	2.748	4.3

During the twelve-month period the wastewater treatment plant has processed **909,526,000** gallons of wastewater and has disposed of **6082.45**-tons of Biosolids. The City's wastewater treatment plant also has accepted and processed **4,124,450** gallons of septage from private septage hauling companies. This septage was pumped from septic tanks in Henderson County.

B. By Month:

List by month any violation of permit conditions or other environmental regulations.

No Violations

III. Notification:

Copies of this report are available to the public at:

City of Hendersonville
Operations Center
305 Williams Street
Hendersonville, North Carolina
8:30 a.m. - 5:00 p.m. Monday – Friday

Users and customers of the wastewater system have been notified of this report by a press release to all electronic and print news media outlets that provide general coverage to the Henderson County area. Also, a statement has been placed on the City's website at www.hendersonvillenc.gov providing information on how to obtain copies of this report.

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 City of Hendersonville's Wastewater System and that those users have been notified of its availability.

Garrett DeMoss

Garrett DeMoss, ORC
Wastewater Treatment Facility Manager
City of Hendersonville

7/9/2021
Date