

Town of Kure Beach



WASTEWATER/COLLECTION ANNUAL REPORT

July 1, 2023 to June 30, 2024

117 Settlers Lane, Kure Beach, NC 28449

Phone (910) 458-8216

Applicable Permits

Kure Beach Collection System Permit WQCS00235 ORC- Shawn Whitley
Kure Beach Wastewater Treatment Plant Permit NC0025763 ORC- Brad Easley

Wastewater Treatment

Wastewater treatment is the biological process of removing pollutants from the water so it can be returned safely to the environment. It is the "last line of defense" against water pollution, protecting the environment from water that may contain disease-causing bacteria or other pollutants.

Our Collection System

The collection system for the Town of Kure Beach consists of various sizes of gravity feed lines that lead to different lift stations. All sewage south of N Avenue is delivered to a main lift station at the Public Works building and is pumped through a force main pipe to Carolina Beach. It is then treated and discharged into the Cape Fear River. Sewage north of N Avenue to Dow Avenue is pumped to the Kure Beach Wastewater Treatment Plant where it is treated and then discharged into the Cape Fear River. Sewage from Dow Avenue to Alabama Avenue is gravity fed to a lift station on Snapper Avenue and pumped directly to the Carolina Beach treatment facility. In 2016, a by-pass system was added to the main lift station to allow flow to be diverted to the Kure Beach Wastewater Treatment Plant when necessary.

Performance

The Town of Kure Beach's Public Works Department performs the operation and maintenance of the collection system and wastewater treatment facility. In addition to their routine preventative maintenance schedule, personnel are on call nights and weekends to respond to emergencies.

We strive to have no spills or overflows from the collection system; however, grease, roots, litter, and weather events sometimes cause wastewater to escape the system.

Spill Information

The Town of Kure Beach had no reportable sanitary sewer spills (SSO) for the report year.

We also responded to 9 sewer backups or stoppages, determining if the issue was on the property owner's side or the Town's system. When necessary, we jetted lines to clear obstructions, including grease, roots, and other blockages.

What You Can Do



Kure Beach Public Works does everything it can to prevent sewer spills, but we can't do it alone. You play an important role in helping us maintain an efficient public sanitary sewer system. Since the majority of overflows are caused by improper disposal of items into the sewer system, we ask you to be aware of the following guidelines:

- Avoid pouring fats, oils or grease from cooking down the drain. Instead, collect them in a container and dispose in the trash.
- Don't use your toilets as a wastebasket. Place a wastebasket in the bathroom to dispose of items such as disposable diapers and personal hygiene products.
- Unless you have a garbage disposal please don't use your drain to dispose of food scraps. Place food scraps in waste containers or garbage bags for disposal or composting.
- Don't pour hazardous products such as paint, pesticides or herbicides down the drain.

Treatment Plant Operations

The Kure Beach Wastewater Treatment Plant operates under a national pollution discharge elimination system (NPDES), permit #NC0025763. Compliance is based on meeting parameters specified in the permit. During the report year, we received the following violations:

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| October 10, 2023 | Solids, Total Suspended Concentration monthly average exceeded on 8/31/2023. Limit value = 30, reported value = 30.54 |
| October 11, 2023 | Solids Total Suspended Concentration weekly average exceeded on 6/24/2023. Limit value = 45, reported value = 48.8 |
| October 11, 2023 | BOD, 5-Day Concentration monthly average exceeded 6/2023. Limit value = 30, reported value = 34.75 |
| October 11, 2023 | Solids, Total Suspended Concentration monthly average exceeded 6/2023. Limit value = 30, reported value = 38.35. |
| October 11, 2023 | BOD, 5-Day Concentration weekly average exceeded 7/1/2023. Limit value = 45, reported value = 46 |
| October 11, 2023 | Solids, Total Suspended Concentration weekly average exceeded 7/1/2023. Limit value = 45, reported value = 52 |
| October 11, 2023 | BOD, 5-Day Concentration weekly average exceeded 7/8/2023. Limit value = 45, reported value = 51 |
| October 11, 2023 | Solids, Total Suspended Concentration weekly average exceeded 7/8/2023. Limit value = 45, reported value = 64.4 |

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| October 11, 2023 | Solids, Total Suspended Concentration weekly average exceeded 7/15/2023. Limit value = 45, reported value = 46.9 |
| October 11, 2023 | BOD, 5-Day Concentration weekly average exceeded 7/22/2023. Limit value = 45, reported value = 62 |
| October 11, 2023 | Solids, Total Suspended Concentration weekly average exceeded 7/22/2023. Limit value = 45, reported value = 60 |
| October 11, 2023 | BOD, 5-Day Concentration monthly average exceeded 7/2023. Limit value = 30, reported value = 46.5 |
| October 11, 2023 | Solids, Total Suspended Concentration monthly average exceeded 7/2023. Limit value = 30, reported value = 50.4 |
| October 11, 2023 | Enterococci weekly frequency violation for week ending 7/22/2023. Sample was actually taken on 7/18 with a result of <2 MPN/100ml but left off state report |

AVAILABILITY of REPORT

A copy of this report will be posted on the Town of Kure Beach website
www.townofkurebeach.org/public-works/water-sewer.

Copies are also available at the Public Works Office at 401 H Avenue or by calling 910-458-5816.