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Charles S. Brown  
Town Manager

Kaye Anderson  
Town Clerk

*August 1, 2017*

**Performance Annual Report**  
July 2016 through June 2017

**Facility/System Name:** Mount Olive Wastewater Treatment Plant (WWTP)

**Responsible Entity:** Town of Mount Olive

**Person in Charge/Contact:** Glenn Holland/919-658-6538

**Applicable Permit(s):** NPDES Permit: NC0020575  
Collection System Permit: WQCS00129  
Reclaimed Water Permit: WQ0029169

**Description of Treatment Process:**

The Mount Olive WWTP is located at the end of Wilkins Farm Road near Carver Elementary School on State Road 1744. The Wastewater Treatment Facility consists of an Influent Pump Station with two 750 gallon per minute and two 1750 gallon per minute pumps, Mechanical and Manual Bar screens, a Vortex Grit Removal and Grit Classifier, Parshall Flume, Equalization Basin, Oxidation/Anoxic Ditch System, two 65 foot diameter Clarifiers, a Traveling Bridge Filter System, Ultraviolet (UV) Disinfection, Post Aeration Blowers, two Aerobic Sludge Digesters, Influent Flow Meter, and an Effluent Flow Meter/Recorder. The discharge from this Plant is into the Northeast Cape Fear River, which is classified as Class C-Swamp waters in the Cape Fear River Basin. The sludge produced, 547 tons, was disposed of at the McGill Regional Composting Facility in Harrells, NC.

Mount Olive's Wastewater Treatment System serves approximately 1800 residential and 250 commercial/industrial customers and consists of approximately 35 miles of sewer pipe with 15 lift stations placed throughout the Town to pump wastewater to the Treatment Plant. Additionally, wastewater from the Town of Calypso, located about 6 miles south of Mount Olive, is pumped to the Mount Olive WWTP for treatment. Calypso produced approximately 34,000 gallons of wastewater per day during this period.

The Reclaimed Water Generation, Distribution and Utilization System consists of a reclaimed water pump station with two 1750 gallon per minute, 40 horsepower transfer pumps and three 350 gallon per minute, 25 horsepower drip irrigation pumps, an in-line automatic backwash strainer, a lined 5.4 million gallon reclaimed water upset lagoon, a 28 million gallon irrigation storage lagoon, and a drip irrigation system covering 125

acres grouped into twelve fields, using 20 mm pressure-compensation drip tubing rated at 0.62 gallons per hour per emitter, with emitters spaced on 2-foot centers, with the drip tubing spaced approximately on 10-foot centers, associated header piping, lateral piping and appurtenances, with a vegetative cover of grass and trees at the WWTP to serve the Town of Mount Olive, with no discharge of wastes to the surface waters of the State.

83000 Sycamore trees were planted on 125 acres as part of a recycling water process. Treated wastewater will be pumped into a 28 million gallon lagoon for storage. This water will be used for irrigating the sycamore trees. The 28 million gallon lagoon was not operational during the period of this report due to liner issues. The Sycamore trees were irrigated directly from the reclaimed water pumping station.

**Performance:** (July 1, 2016 to June 30, 2017)

The Wastewater Treatment Plant treated approximately 332 million gallons of wastewater during this period with an average daily flow of 910,000 gallons. There were no permit violations during this period.

**Notification:**

A Public Notice was placed in the local newspaper informing the public that a copy of this report may be obtained at the Mount Olive Town Manager's office.

**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.

 

Charles S. Brown

Date

Town Manager

Town of Mount Olive