

BRUNSWICK COUNTY'S new 24 mgd Malmo plant will begin pumping treated river water in February to test



Rural Community Is Home For Modern Water System

BY TERRY POPE

Butler Road in northern Brunswick County is no uper bullway. It is a graveled road that wanders fromth the woods, providing uccess to a several omes and a 80 million water treatment plant. There are chicken yards and sleeping does ithin eyesight of this modern facility. From out it the tail pines the plant rises, with its glant orage tanks and white, concrete buildings that ught look more at home in some major etropolitan city than in this rural community of lalino in northwest Brunswick County. Brunswick County. Brunswick County Water Treatment Plant 1881 as built in this community out of necessity, for it adjacent to an unlimited rise water supply, the appearance of the properties of the plant from the Lower Cape. Feat. Water and Sewer uthority's pipeline that takes in water 13 miles way, at Lock and Dain No. 1 at Kind's Blaff in laden County.

Brunswick County is the authority's only ustomer so far. The pipeline that is capable of unplying up to 45 million gallons of raw water a any comes to an abrupt hait in the woods, just esside the freatment plant.

When the plant becenter fully speciational in

sowered pumping stations are placed along the rank lines and at the Sing's Bluff pumping station.

A four-million-gallon grind storage tank is also being constructed at the intersection of N.C. at and U.S. 17, where the main trank line will divide one section will carry water to Southport while the other main line will carry water as far as alobash. A diesel-powered pumping station is also located at this storage tank.

"In case of a power failure, we can still operate and maintain some pressure throughout the courses," Hewett said. "We couldn't provide all of the industrial demand, but we could provide adequate ressure for drinking water.

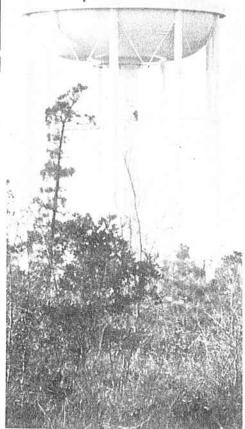
At the plant, sludge, or solid particles from the raw water, settle on the bettom of twin 12-million-gallon treatment tanks. The "sludge blankets" are then pumped to adjacent equilization fields for are their pumped to adjacent equilization fields for a the pumped to adjacent equilization fields for eithering. Water that drains from these sludge fields is returned to the treatment tanks.

There is a very, very minute amount of water that goes to waste in this system," Hewett said. Chemicals are added to the water while it in the 12-million-gallon treatment tanks. The treated water is then tested in labs at the plant for bacteria and other pollutants.

The plant is actually divided into two sides of equal capability. Each side is capable of producing the producing up to 12 million gallons of treated water a day. County commissioners voted in 1981 to build a plant capable of producing 3 million gallons a day rather than one that could later be expanded to reach that capacity.

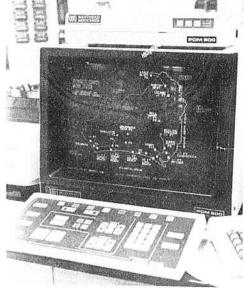
When in full operation, Hewett said, the plant will employ 13 persons working in shifts. The report than one that could later be expanded to reach that capacity.

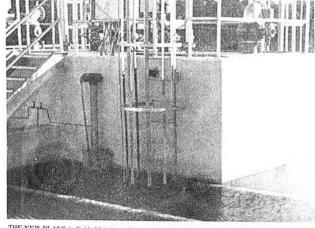
When in full operation, Hewett said, the plant will employ 13 persons working in shifts. The report work of the window overlooks the 200-acre site and facility. From there, his is a view of modern technology at work in a rural environment, a mu



ASWICK COUNTY

THE ELEVATED WATER TANK at Leland bears the name of this rural









WATER PLANT TECHNICIAN David Rourk, of room where information on water lines and tank Shallotte, points to display panels in the main control pressures are monitored.