

**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 wastewater users and customers of Stanly County Utilities and the Greater Badin Water and Sewer District system and those users have been notified of its availability.

Donna Davis, Director  
Stanly County Utilities

February 16, 2015



**NOTIFICATION**

This report has been mailed to all water and sewer customers in the Greater Badin Water and Sewer District and Stanly County Utilities. Additional copies are available at the Stanly County Utilities business office – 1000 North First Street, Suite 12, Albemarle, NC (704) 986-3686

Stanly County Utilities  
1000 North First Street  
Suite 12  
Albemarle, NC 28001

**Greater Badin Water and Sewer District  
and  
Stanly County Utilities  
2014 Wastewater Performance  
Report**



**System name**

Greater Badin Water & Sewer District  
Stanly County Utilities

**Responsible entity**

Stanly County Utilities

**Responsible person**

Donna Davis, Director

**System Contact Information**

Stanly County Utilities  
1000 North First Street, Suite 12  
Albemarle, NC 28001  
(704) 986-3686

<http://www.stanlycountync.gov/utilities/>

**Applicable permits**

NC0074756 Greater Badin WWTP  
NC0074756 West Stanly WWTP  
WQCS00171 Stanly County Utilities  
Collections System

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ALBEMARLE  
PERMIT 41

This brochure is designed to inform and educate consumers about the performance and operation of the Greater Badin Water and Sewer District (GBW&SD) wastewater collections system and treatment plant and the Stanly County Utilities (SCU) wastewater collections system and treatment plant. If you would like more information about GBW&SD or SCU, please contact the Stanly County Utilities business office.

### How the treatment process works

GBW&SD provides wastewater collection and treatment services to homes, businesses, schools and others to ensure and promote public health and sanitation in the Badin community. The system received and treated more than 172 million gallons of domestic, commercial and industrial wastewater from approximately 625 wastewater customers in the year 2014. This amounts to an average of 472,024 gallons of wastewater per day. Wastewater is collected in an 11 miles system of sewer pipes and transferred to the Greater Badin wastewater treatment plant by gravity flow and pumped from two lift stations throughout the district. The West Stanly wastewater treatment plant treated more than 180 million gallons of wastewater in 2014 from the collections systems owned and operated Oakboro, Locust, Stanfield and Stanly County or an average of 493,725 gallons of wastewater per day. The West Stanly wastewater treatment plant was purchased from the Town of Oakboro in May 2014. Once wastewater arrives at the treatment plants it is monitored, tested, treated and released back into the environment in a very clean state. Both plants are operated by a well-trained, state certified operators who ensure the proper functioning of the facility, maintenance, and quality of the wastewater.

The overall SCU collections system consists of approximately 28 miles of collections mains and includes service to the northern part of Stanly County, the County Airport region, the Town of Red Cross, the Palestine community, the Millingport community, the Ridgecrest community and the Aquadale community. Wastewater from these areas is collected and sent to treatment plants in the Albemarle, Oakboro (West Stanly WWTP) and Norwood.

## SYSTEM PERFORMANCE FOR 2014 2014 Wastewater Treatment Plant Violations

### Greater Badin Wastewater Treatment Plant

<u>Month</u>	<u>Violation</u>	<u>Type</u>
January	Yes	Flow
February	Yes	Flow
March	Yes	Flow
April	Yes	Flow

### The West Stanly Wastewater Treatment Plant was in compliance the entire calendar year 2014. It experienced no flow violations.

The rated capacity of the Badin treatment plant is 550,000 gallons per day and the rated capacity of the West Stanly treatment plant is 900,000 gallons per day. A flow violation means the plant treated more wastewater than the rated capacity. This happens when heavy rains cause the system to take on rainwater. The plant can and does provide effective treatment at levels higher than the rated capacity. However, any numbers above the plant rating constitute a flow violation.

### 2014 Sewer Overflows/Spills/Bypasses\*

<u>Location</u>	<u>Date</u>	<u>Amount</u>
Gtr Badin WWTP	02/19/14	9,000 gallons
Gtr Badin WWTP	03/07/14	29,000 gallons
McCoy Inf PS	06/27/14	30,000 gallons
WS WWTP FM	07/21/14	1,200 gallons
Gtr Badin WWTP	08/01/14	25,000 gallons

A sewer overflow or spill is indicated when untreated or partially treated wastewater is released from a pipe break or manhole overflow. Overflows can result from pipes clogged with grease, tree roots, and debris, damaged pipes or excessive inflow and infiltration of other water into the collection pipes.

In most cases, rain water from heavy storms has entered the wastewater collection system to increase the flow beyond the rated capacity of the treatment plant or the collections system.

Wastewater spills can be harmful to the environment due to the potential for exposure to

bacteria and other hazards. Each spill site is cleaned and treated to minimize the risk to the public.

During 2006 the Greater Badin Water and Sewer District completed rehabilitation and replacement of a significant portion of its collection system using a 1.6 million dollars grant to address problems of inflow and infiltration into the collection system. Plans are to continue the rehabilitation until all areas of the District are upgraded.

*\*The West Stanly WWTP was purchased in May 2014. Spill data, if any prior to that date was not reported.*

## Beware of the Grease Goblin

### DID YOU KNOW...

Most sanitary sewer backups occur between your home and the sewer main?



You can help prevent a costly and unsanitary overflow by following a few simple steps.



**Do**

Scrape excess grease in a container and dispose of it in the garbage.



**Don't**

Pour grease, fats and oils from cooking down the drain.