



C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

September 8, 2006

Town of Denmark  
Attn: Carrie Simmons  
4768 Carolina Highway  
Denmark, SC 29042

RE: Sanitary Survey  
System #0510002  
Bamberg County

Dear Ms. Simmons:

On August 22, 2006 a sanitary survey was conducted on the Town of Denmark public water system. The intent of the sanitary survey is to evaluate the public water system's ability to provide a continuous supply of safe drinking water to its customers.

The Town of Denmark public water system received an overall rating of **Satisfactory**. Enclosed is a copy of the survey and a report, which includes a description of the public water system, specific findings made during the sanitary survey, and recommendations for correcting any deficiencies. This survey and the report should be kept on file for no less than ten (10) years and be made available to the public or DHEC upon request. It is requested that all parties responsible for the operation and maintenance of the water system review this report promptly.

If you have any questions or if I can be of any assistance, please call me at (803) 641-7670.

Sincerely,

Jason Shirley  
Water Program  
Region 5 EQC, Aiken

cc: Marty Chaney, Bureau of Water Compliance Assurance Division

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL  
CONTROL  
REGION 5 EQC

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**SANITARY SURVEY REPORT**

*Town of Denmark  
Water System # 0510002  
Bamberg County*

**Introduction**

The South Carolina Department of Health and Environmental Control recently conducted a sanitary survey of the Town of Denmark Public Water System (Water System # 0510002). This survey consisted of a review of the Department files and an on-site inspection by Department personnel on August 21, 2006. The following persons participated in the on-site inspection:

Jason Shirley	SCDHEC – Region 5 EQC, Aiken
Tim Freeman	Town of Denmark

This report includes a description of the water system, a list of findings and recommendations noted during the survey.

**System Description**

The Town of Denmark owns and operates a groundwater facility and associated potable water distribution system that serves approximately 3800 by approximately 1501 service connections. Information on the system's wells is given in the table below. The system has a current rated capacity of 1,046,400 gallons per day.

***Well Information***

	Type	Horsepower	Yield	Regulated Capacity	Treatment
Well One Brooker Center	Turbine	60	500 gpm	480.00 TGD	Gaseous Chlorine
Well Two Voorhees	Turbine	60	330 gpm	316.80 TGD	Gaseous Chlorine
Well Three League Street	Turbine	50	390 gpm	249.60 TGD	Gaseous Chlorine

Three (3) elevated storage tanks with a total volume of approximately 475,000 gallons serve the Town of Denmark public water system.

*Storage Capacity*

Tank	Capacity (gallons)
City Hall Elevated Tank	100,000
Nibco Elevated Tank	250,000
Voorhees Elevated Tank	125,000

Currently, the Town of Denmark public water system has the following operators:

Operator	License	Certification #	Class
Tim Freeman	Treatment	06651	D
	Distribution	01830	G
JP Robinson	Treatment	02418	D
	Distribution	00472	D

**Findings and Recommendations**

- 1) The system maintained an Unsatisfactory rating for Leak Detection and Repair Program. At the time of the survey a water audit was not available for review.
- 2) The system maintained a Needs Improvement for Storage Appurtenances. The Town of Denmark has been extending overflow pipes to within the required distance of 12 to 24 inches when maintenance is scheduled at the tanks. The City Hall Tank overflow has been extended. The Voorhees Tank overflow pipe still needs to be extended.
- 3) The system received a Satisfactory rating for Storage Maintenance. The City Hall Tank is showing some exterior rust.
- 4) The system received a Satisfactory rating for Fire Flow. Hydrants are due to be tested in 2007. All hydrants that do not meet the 500 GPM requirement must be properly color coded or bagged.
- 5) The system received a Satisfactory rating for Cross Connection Control. All backflow devices had been tested in the system, however at the time of the survey a failed backflow device was due to be repaired/replaced and retested. This backflow device was located at Edisto Apartments.

## **Conclusions**

Overall, the Denmark Public Water System is being operated in a safe and reliable manner. Please continue the hard work and dedication to the system. The Department looks forward to working with the water system in the future to ensure that the residents continue to receive the highest quality of drinking water.

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