

# Project Profile

## ► EnVessel Pasteurization™ - Greenwood, SC



The Greenwood Metropolitan District operates two Wastewater Treatment Facilities (WWTF). The West Alexander WWTF has a permitted capacity of 2.2 MGD. The Wilson Creek WWTF has a permitted capacity of 12 MGD.

On an average day both facilities together treat approximately 8.3 MGD of wastewater from domestic, commercial, and industrial sources. This treated wastewater is then returned to the environment.

The District's Class A product is produced using RDP's EnVessel Pasteurization System which is a "Green Process" that returns biosolids with valuable nutrients to the earth. The RDP System is located at the Wilson Creek Plant. Dewatered solids are transported by truck from the West Alexander plant to Wilson Creek where both plant's solids are processed thru the RDP System.

Danny Hall, Biosolids Supervisor, has a simple philosophy regarding his system. *"If you take care of the equipment, the equipment will take care of you."*

**Above:**  
*Dewatering, Class A Pasteurization and Product storage building located at the Wilson Creek WWTF*

**Location:**  
**Greenwood, SC**

**Engineer:**  
**Jordon, Jones & Goulding**

**Permitted Plant Flow:**  
**12 MGD**

**Installation Date:**  
**Spring 2002**



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***Above and below:***

This hay field received its first application of Class A Biosolids approximately 4 months prior to the date of the photograph. Typical grasses grown in South Carolina are bermuda, rye and fescue. The grasses produced are used as feed for local beef cattle.

The Greenwood Metropolitan District determines the agronomic loading rate for each farm based on a soil analysis provided and paid for by the farmer. The District then transports the product to each farm and spreads the Class A Biosolids with District provided manpower and application equipment at no expense to the farmer. The farmer pays a small fee to the District to cover the cost of transporting the spreading equipment to his farm from its previous location. Danny Hall's philosophy with his customers is "If you take care of the farmer, the farmer will take care of you."



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The District, annually returns to the earth 9.5 tons of organic nitrogen, 8.9 tons of phosphoric acid and 0.8 tons of potash through its Class A Biosolids program for farmers in the Greenwood community.



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*Above:*

*The RDP “Green Process” includes a ThermoFeeder and ThermoBlender to heat the biosolids with electric heating elements in conjunction with the heat produced from the addition of quicklime. The ThermoBlender then discharges product into the Pasteurization Vessel.*



*Above:*

*The final processing step is a Pasteurization Vessel that maintains a product temperature of 160 degrees F for 30 minutes to insure final proper pathogen reduction.*



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