

NFRWQPA 2011 WATER QUALITY PLAN UPDATE  
Minor Point Source Inventory Data

Operating Agency: *Abbey of St. Walburga*

Utility Plan Approved: March 2010

CDPS Permit #: COG-620000

Permit Expired: 5/31/2012

CDPS Facility #: COG-620073

Description of Treatment Facilities: Septic tank system with recirculating aerobic and anaerobic sand filters, nitrate reduction, and discharge to leach field.

Treatment Facility Location: NE ¼, NW ¼, Section 8, T11N, R71W

Discharge Location: NE ¼, NW ¼, Section 8, T11N, R71W

Stream Segment Classification: Discharge to ground water

Service Area Population: Transient population (week-end visitors) will occasionally add a maximum of 15 persons to the residential population. Maximum stay for transient population is 3-4 days. There are currently approximately 30 full-time residents. Additionally, there are accommodations for 14 overnight guest and 30 day guest. Occasional special events can also equate to 150 additional visitors. The resulting total maximum daily population is 264 people though the actual number of persons present would routinely be much lower.

Capacities:

	Design Capacity	Existing Load
Flow (gpd)	4,132	3,000
Organic (lbs/day BOD <sub>5</sub> )	12.9	No data

Biosolids Treatment and disposal: Roto Rooter is called out twice per year to remove sludge from the septic tank. The volume of removed sludge is estimated at 3,600 gallons per trip.

Treatment level: The expanded facility was designed based on Preliminary Effluent Limits received from CDPHE in October 2009.

Estimated 5-year construction needs: In 2010 the Abbey received Site Application approval for the expansion of the current treatment facility to an average daily capacity of 0.006 mgd and an organic loading capacity of 21.37 lbs. BOD<sub>5</sub>/day. The existing wastewater treatment facility will be modified to include a new grease trap on the kitchen sewer, a new septic tank, a new anoxic tank, the existing recirculating tank, new Advantex recirculating filters (advanced denitrification configuration), the existing dosing tank and an expanded leach field.