

NFRWQPA 2007 WATER QUALITY PLAN UPDATE  
Major Point Source Inventory Data

Operating Agency: *City of Longmont*

NPDES Permit #: CO-026671

Permit Expires: 1/31/2008

Description of Treatment Facilities: Activated sludge, clarification, nitrification, UV disinfection, and anaerobic sludge digestion.

Treatment Facility Location: N ½, NW ¼, Section 11, T2N, R69W

Discharge Location: Saint Vrain Creek in the NW ¼, Section 11, T2N, R69W.

Stream Segment Classification: Warm Water Aquatic Life Class 1, and Recreation Class 1.

Service Area Population:

Existing	2010	2015	2020	2025
	85,500	87,000	92,570	101,670

Capacities:

	Design Capacity	Existing Load	2010	2015	2020	2025	Year at 80% Design	Year at 95% Design
Flow (mgd)	17	8.2	9.40	9.06	9.44	10.37	>2025	
Organic (lbs./day BOD <sub>5</sub> )	31,000	18,000	18,800	19,640	20,270	22,370	>2025	

Biosolids treatment and disposal: Both anaerobic digestion/land application and composting are used to treat and beneficially reuse biosolids. Composting is privatized through A-1 Organics who composts about 33% of the total biosolids generated by the WWTF. These biosolids do not receive any treatment other than dewatering prior to composting. The remaining 67% of the biosolids are anaerobically digested and beneficially reused on agricultural land by Liquid Waste Management. A total of 2,997 dry tons of biosolids were generated in 2004 (975 dry tons composted and 2,022 dry tons anaerobically digested and reduced to 1,007 dry tons for land application).

Effluent limits required beyond secondary to meet stream standards: Ammonia limits as part of a TMDL analysis for the St. Vrain Creek basin.

Estimated 5-year construction needs: Five year Capital Improvements Program and 10-year projection of needs include the following facility improvements:

- Anaerobic digester expansion/addition (2007-2008) - \$3.6 million
- Additional secondary clarifier (2010) - \$1.6 million
- Constructed wetland demonstration project (2005-2006) - \$100,000
- Nitrification/denitrification and/or nutrient removal (2010-2011) - \$6,150,000
- Add new DAFT for biosolids handling (2008) - \$1,193,000
- Replace existing Belt Filter Press (2010) - \$694,000
- Motor Control Center Replacements (2007-2008) - \$300,000