

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *City of Loveland* Utility Plan Approved: 9/2010

CDPS Permit #: CO-0026701 Permit Expires: 10/31/2015

Description of Treatment Facilities: Screening, grit removal, primary clarification, activated sludge – step aeration, secondary clarification, ultraviolet disinfection, and anaerobic sludge digestion.

Treatment Facility Location: SE ¼, Section 19, T5N, R68W

Discharge Location: COSPOBT04c, Big Thompson River Segment 4c

Stream Segment Classification: Class 2 Warm Water Aquatic Life, Recreation Class N (10/16 – 4/30) Class E (5/1 – 10/15), and Agriculture.

Service Area Population:

Existing	2015	2020	2025	2030
67,006	76,168	86,766	99,354	108,042

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd) peak monthly	10	7.2	8.1	9.3	10.6	11.9	2014	2022
Organic (lbs/day BOD ₅)	20,236	17,925	20,189	23,021	26,328	29,431	Currently met	2012

Biosolids treatment and disposal: The biosolids treatment and disposal consists of dissolved air flotation thickening of the waste activated sludge (WAS), anaerobic digestion of primary and secondary sludges and contracted liquid sludge disposal on agricultural lands.

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0026701.

Estimated 5-year construction needs: Capital improvements over the next 5 years will include projects associated with the following:

- Odor control improvements
- WAS thickening improvements
- Digester complex improvements
- Process air blower replacement
- Nutrient removal and aeration basin improvements
- Headworks and odor control improvements
- Modifications to the existing chlorine building electrical an controls

A detailed list of projects can be found in the City’s Utility Plan.