

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *Estes Park Sanitation District*

CDPS Permit #: CO-0020290

Permit Expires: 10/31/2014

Description of Treatment Facilities: Flow equalization, activated sludge, clarification, chlorination / dechlorination, aerobic sludge digestion, dewatering and contract land application.

Treatment Facility Location: SW ¼, SW ¼, Section 19, and NW ¼, Section 30, T5N, R72W

Discharge Location: COSPBT02, Big Thompson River Segment 2 just west of Lake Estes in the SW ¼, SW ¼, Section 19, and NW ¼, NW ¼, Section 30, T5N, R72W.

Stream Segment Classification: Class 1 Cold Water Aquatic Life, Recreation Class E, Agriculture, and Water Supply.

Service Area Population:

	Existing	2015	2020	2025	2030
Permanent	3,564	3,670	3,840	4,009	4,178
Seasonal	4,064	4,185	4,379	4,571	4,765

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	1.5	0.766	0.824	0.862	0.900	0.938	>2030	NA
Organic (lbs./day BOD ₅)	3,300	1,418	1,493	1,563	1,631	1,700	>2030	NA

Biosolids treatment and disposal: The District utilizes aerobic sludge digestion. Biosolids are dewatered to 18-20% prior to land application by contractors in Larimer and Weld Counties. Annual production is approximately 100 dry tons.

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0020290.

Estimated 5-year construction needs: Short-term improvements include the additional of grit removal and improved screening capabilities. These headworks improvements will also include a building that improves chemical addition and odor control capabilities. Long-term improvements include improved metals removal, effluent temperature control and meeting nutrient restrictions being considered by CDPHE. Collection line replacements will continue on an annual basis.