

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: *Upper Thompson Sanitation District* Utility Plan Approved: 2/2010
 Amended 6/2010

CDPS Permit #: CO-0031844 Permit Expires: 7/31/2007

Description of Treatment Facilities: Activated sludge, secondary clarification, nitrification towers, tertiary filtration, chlorination, dechlorination, and sludge digestion.

Treatment Facility Location: SW ¼, NE ¼, Section 29, T5N, R72W

Discharge Location: COSPBT02, Big Thompson River Segment 2, NE ¼, Section 29, T5N, R72W.

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

Service Area Population:

Existing	2015	2020	2025	2030
4,938	11,632	13,056	14,480	15,904

Capacities:

	Design Capacity	Existing Load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Peak Flow (mgd)	2.0	1.44	1.54	1.70	1.85	2.01	2017	2027
Organic (lbs./day BOD ₅)	4,450	3,360	3,590	3,960	4,340	4,710	2014	2023

Biosolids treatment and disposal: The District uses aerobic digestion and dewatered sludge to 15% or greater solids content. It has haul off by a contract hauler to land apply the biosolids (160 dry tons per year).

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0031844.

Estimated 5-year construction needs: Short term capital improvement projects include the following:

- Relocate and upgrade the existing seepage / vault receiving station.
- Upgrade the Thompson River and Fish Creek lift stations.
- Repair structural deficiencies with the flow equalization basin.
- Replace grit chamber and influent flow metering.
- Upgrade portions of the secondary treatment system.

In addition to the short term improvements, the Utility Plan also outlines long term improvements planned by the District.