

NFRWQPA 2011 WATER QUALITY PLAN UPDATE
Major Point Source Inventory Data

Operating Agency: **Town of Keenesburg**

Utility Plan Approved: 2/2010

CDPS Permit #: CO-0041254

Permit Expires: 10/31/2011

Description of Treatment Facilities: Fermentation Cell, lift station, aerated lagoon, polishing pond, and chlorination.

Treatment Facility Location: NW ¼, SE ¼, SE ¼, Section 26, T2N, R64W

Discharge Location: Sloan's Reservoirs – farmer's private ponds – used to irrigate fields, slight discharge to intermittent draw only occurs under a significant storm event when Sloan's Reservoirs are full.

Stream Segment Classification: COSPMS06, Class 2 Warm Water Aquatic Life, Recreation Class N (Not Primary Contact Use), and Agriculture. This Segment had an Aquatic Life Use Attainability Analysis (UAA) completed and presented to the WQCC and was specially established for Keenesburg WWTF discharge.

Service Area Population:

Existing	2015	2020	2025	2030
1,146	1,394	1,696	2,064	2,511

Capacities:

	Design Capacity	Existing load	2015	2020	2025	2030	Year at 80% Design	Year at 95% Design
Flow (mgd)	0.256	0.104	0.123	0.145	0.173	0.206	2023	>2030
Organic (lbs./day BOD ₅)	468	236	278	329	392	468	2025	2029

Biosolids treatment and disposal: NA

Treatment level: The degree of treatment required and effluent limitations are outlined in Permit #CO-0041254.

Estimated 5-year construction needs: In 2010 the Town received Site Application approval for improvements to the existing lagoon facility. These improvements include the replacement of the shallow, aerated lagoons with a 3-step Advanced Integrated Pond System and a new intermediate lift station to lift wastewater from the fermentation basin into the new aeration basin. These improvements were completed in April, 2011.