



**Bear Creek Watershed Association**  
*Wastewater Treatment Facility Information Sheet 02*

**Kittredge Water and Sanitation District**

Approved BCWA Board September 10, 2014

<b>TYPE OF PERMIT</b>	Domestic – Minor Municipal, Mechanical Plant
<b>Permit Number:</b>	CO 0023841
<b>Permit Issue Date</b>	3/26/2013
<b>Permit Expire Date</b>	3/31/2018
<b>Facility Location:</b>	Kittredge Water and Sanitation District Latitude: 39.6887° N, Longitude: 105.2875°W
<b>SIC Code:</b>	4952
<b>Facility Classification:</b>	Class B per section 100.9.2 of the regulations for Water and Wastewater facility Operator Certifications requirements
<b>Facility Hydraulic Capacity:</b>	0.125 MGD
<b>Facility Organic Capacity:</b>	398 lbs. BOD/Day
<b>Treatment Works:</b>	The facility consist of a headworks, including bar screens, grit removal and influent flow measurements via a 3-inch Parshall flume equipped with ultrasonic meter, followed by chemical addition (sodium aluminate) for phosphorus removal, one aeration basins, a final clarifier, ultraviolet disinfection, flow through a polishing pond (Has duck weed that acts as a biological nutrient removal system), and effluent flow measurement via a 3-inch Parshall flume equipped with ultrasonic meter.
<b>Lift Stations:</b>	None
<b>Service Areas:</b>	Kittredge Water and Sanitation District
<b>Compliance Schedules</b>	A compliance schedule to give the facility time to complete a mixing zone analysis and report findings to the Division. A timeframe of two years has been established to meet this requirement. A compliance schedule to give the facility time to install any necessary construction or additional treatment to meet newly established T.I.N. limitations. A timeframe of five and a half years has been established to meet this requirement. If the limitations can be met with the current treatment process, no construction is required

## Kittredge Water and Sanitation District

<b>Industrial Pretreatment Program</b>	The pretreatment program includes a combination of the Kittredge WWTF District, the Evergreen WWTF District, and the West Jefferson County WWTF District. It was established in 2001.
<b>2013 Service Area Population Estimate:</b>	1,218 with 478 taps, See BCWA Fact Sheet 41 Wastewater Demographics and BCWA Fact Sheet
<b>2035 Service Area Population Estimate:</b>	1,400 (no major expansion of service area planned, system near build-out)
<b>2013 Average Daily Effluent Treated:</b>	0.0439/0.018/0.2222 (Avg/ Min/ Max)
<b>Plant Expansion (5-years):</b>	None Planned
<b>Discharge Point:</b>	001A, following disinfection and prior to mixing with receiving stream.
<b>Waterbody Identification:</b>	39.6887° N 105.2875° W
<b>Receiving Water Designation (Segment):</b>	COSPBE01e, Bear Creek
<b>Receiving Water Classification (Segment):</b>	Aq. Life Cold 1, Rec. Class E, Ag., Water Supply
<b>Threatened and Endangered Species</b>	No
<b>Control Regulation #74</b>	Because the discharge from this facility ultimately impacts Bear Creek Reservoir, it is subject to the Bear Creek Control Regulation, Regulation 74. This regulation imposes a total phosphorus concentration limitation of 1.0 mg/l on all dischargers in the watershed. In addition, the regulation specifies a mass limitation for dischargers of record.
<b>Control Regulation #74 Wasteload Allocation</b>	Cumulative annual limitation is 240 pounds of total phosphorus
<b>Control Regulation #74 Total Phosphorus Limit</b>	1.0 mg/l as monthly average
<b>303(d) Listing Regulation #93</b>	Aquatic life and temperature
<b>Temporary Modifications</b>	None
<b>Water Quality Pollutants of Concern</b>	phosphorus, nitrogen, temperature, ammonia
<b>Water Quality Assessment</b>	WQCD 9-11-2012 completed for Bear Creek, Troublesome Gulch, Mount Vernon Creek, and an unnamed tributary to Bear Creek, near the Evergreen Metropolitan District Wastewater Treatment Facility (WWTF), Bear Creek Cabins WWTF, Kittredge Sanitation and Water District (S&WD) WWTF, West Jefferson County Metro District WWTF, Genesee Water and Sanitation District WWTF, the Forest Hills Metropolitan District WWTF, and the Town of Morrison WWTF.

