

System Performance Data - Camp Redcloud

In addition, here are some quick system facts and a legend for the wastewater characteristics.

Quick Facts

Building / Facilities: **Youth Camp**
 Start-up: **Aug-07**
 Location: **Lake City, CO**
 Designer / Engineer: **DelMont Consultants**
 Contractor / Installer: **Integrated Water Services**
 Regulating Authority: **Colorado Department of Health**
 Design Flows: **15,000 GPD**
 Grease Tank:
 Septic Tank: **20,000 Gallons**
 Recirculation Tank: **30,000 Gallons**
 Filters: **Six AX100's**
 Actual Loading Rate (gpd/ft2): **5.4**
 System Configuration: **Mode 1**
 Discharge: **Surface Discharge**

Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)
 cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)
 TSS: Total Suspended Solids
 TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)
 NH3-n: Ammonia-Nitrogen
 NO2-n: Nitrite-Nitrogen
 NO3-n: Nitrate-Nitrogen
 NOx: Nitrite + Nitrate
 TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)
 DO: Dissolved Oxygen
 pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically
 Alk: Alkalinity
 TP: Total Phosphorus
 G&O: Grease and Oil
 FC: Fecal Coliform
 Values reported as less than

Notes: Data provided by Camp Redcloud
 Averages are calculated starting from september 2007

Date	GPD	Septic Tank Effluent											
		BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	EC
Aug-07	6000	22.0	40.0										
Sep-07	3150	278.9	115.0										
Oct-07	2625	267.2	176.7										
Nov-07	1211	125.0	33.3										
AVE:	3247	224	108										

Filtrate Effluent											
BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	EC
9.0	0.5		21.6							0	1
7.4	4		3.4							0	0
7.1	7		2.3							0	0
5.4	4		1.7							0	0
7	5		2							0	0