System Performance Data - Camp Alexander

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

Quick Facts

Building / Facilities: **Boy Scout Camp**
Start-up: **Jun-99**
Location: **Lake George, CO**
Designer / Engineer: **Stewart Environmental**
Contractor / Installer: **Remedial Solutions**
Regulating Authority: **Park County Health Department**
Design Flows: **20,000 GPD**
Grease Tank:
Septic Tank: **20,000 Gallons +**
Recirculation Tank: **12,000 Gallons**
Filters: **4000 SF RSF**
Actual Loading Rate (gpd/ft2): **0.8125**
System Configuration: **Mode 1**
Discharge: **Surface to South Platte**

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: Chlorine Disinfection

		Septic Tank Effluent											
Date	GPD	BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	FC
Jun-04	3000	675	350										
Jul-04	6000	675	547										
Aug-04	4000	425	685										
Sep-04	4000	472	610										
Jun-05	1000	316	516										
Jul-05	1000	542	695										
Aug-05	6000	553	921										
Sep-05	1000	554	628										
AVE:	**3250**	**527**	**619**										

Filtrate Effluent											
BOD5	TSS	TKN	NH3	NO3	NOx	TN	pH	Alk	TP	G&O	FC
7	1										7900
3	6										600
7	25										980
4	10										270
9	4										65
6	5										400
6	8										5400
6	5										3
6	**8**										