System Performance Data - Cordova - Phase I

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

Quick Facts

Building / Facilities: **Town of Cordova - Phase I**
Start-up: **Dec-05**
Location: **Cordova, NM**
Designer / Engineer: **Souder Miller & Assoc.**
Contractor / Installer: **EC Bassett Construction**
Regulating Authority: **NMED**
Design Flows: **2000 GPD**
Grease Tank:
Septic Tank: **STEP System**
Recirculation Tank: **3000 Gallon**
Filters: **One AX100**
Actual Loading Rate (gpd/ft2):
System Configuration: **Mode 1**
Discharge: **Subsurface Drain Field**

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 the Service Provider
Nitrogen averages are from system maturation (July 2006)
Total Nitrogen TN is estimated from TKN + NO3

		Septic Tank Effluent											
Date	**GPD**	**BOD5**	**TSS**	**TKN**	**NH3**	**NO3**	**NOx**	**TN**	**pH**	**Alk**	**TP**	**G&O**	**FC**
1/18/2006		275	24	62									
3/7/2006													
4/1/2006													
7/14/2006													
8/21/2006													
10/11/2007													
1/30/2008													
2/1/2008													
AVE:													

Filtrate Effluent											
BOD5	**TSS**	**TKN**	**NH3**	**NO3**	**NOx**	**TN**	**pH**	**Alk**	**TP**	**G&O**	**FC**
15	10										
12.6	10	56		0.1		56.0					
		31		7.1		38.1					
34.4		8.7		5.0		13.7					
21.5	25	9.8		5.0		14.8					
8	13	0.1		11.2		11.2					
22.1	ND	12		5.9		17.9					
4		3.9		1.9		5.8					
		7		**6**		**13**					