APPENDIX B –FARM B DATA

Farm B - Influent TSS Concentrations			
		Standard Grower Influent (mg/L)	High Energy Influent (mg/L)
7/2/98	1:00	0.8	1
7/2/98	1:30	0.6	1
7/22/98	1:00	0.4	0
7/22/98	1:15	0.2	0
7/22/98	1:30	1.2	0
7/22/98	1:45	0.2	0.2
7/22/98	2:00	0	0.2
7/22/98	2:15	0	0.4
7/30/98	12:00	0	0
7/30/98	12:30	0.4	0
7/30/98	12:45	0	0.4
7/30/98	1:00	0	0

Farm B: Standard Grower Effluents versus High Energy Effluents (TSS)					
Date	Time	Standard Grower Basin 1	Standard Grower Basin 2	High Energy Basin 1	High Energy Basin 2
7/2/98	1:00	0	2.6	0	0
7/2/98	1:30	1	3.4	0.2	0.2
7/22/98	1:00	1.6	0.4	1.6	0
7/22/98	1:15	6.6	2.4	0	0
7/22/98	1:30	5.4	5.8	1	0
7/22/98	1:45	7.8	6.8	0.2	0.4
7/22/98	2:00	1.4	1	1.4	0
7/22/98	2:15	3.2	0	1.8	0
7/30/98	12:00	5.4	0.8	0.4	0.4
7/30/98	12:30	4.2	18.8	0	0
7/30/98	12:45	4	1.4	0	0
7/30/98	1:00	4.6	0.6	0	0

Farm B: Testing for significance in TSS differences between basinsfoun		
H17	H18	
0.8	1	
0.6	1	
0.4	0	
0.2	0	
1.2	0	
0.2	0.2	
0	0.2	
0	0.4	
0	0	
0.4	0	
0	0.4	
0	0	
t-Test: Two-Sample Assuming Equal Variances	0.95	
	Variable 1	*Variable 2*
Mean	0.316666667	0.266667
Variance	0.148787879	0.140606
Observations	12	12
Pooled Variance	0.14469697	
Hypothesized Mean Difference	0	
df	22	
t Stat	0.321970374	
P(T<=t) one-tail	0.375257271	
t Critical one-tail	1.717144187	
P(T<=t) two-tail	0.750514541	
t Critical two-tail	2.073875294	

Farm B: Testing for significance in TSS differences between basinsfoun		
B17	B18	
0	0	
0.2	1	
1.6	1.6	
0	6.6	
1	5.4	
0.2	7.8	
1.4	1.4	
1.8	3.2	
0.4	5.4	
0	4.2	
0	4	
0	4.6	
t-Test: Two-Sample Assuming Unequal Variances	0.95	
	Variable 1	*Variable 2*
Mean	0.55	3.766667
Variance	0.488182	5.729697
Observations	12	12
Hypothesized Mean Difference	0	
df	13	
t Stat	-4.468642	
P(T<=t) one-tail	0.000316	
t Critical one-tail	1.770932	
P(T<=t) two-tail	0.000633	
t Critical two-tail	2.160368	

Farm B: Testing for significance in TSS differences between basinsfoun		
B25	B26	
0	2.6	
0.2	3.4	
0	0.4	
0	2.4	
0	5.8	
0.4	6.8	
0	1	
0	0	
0.4	0.8	
0	18.8	
0	1.4	
0	0.6	
t-Test: Two-Sample Assuming Unequal Variances	0.95	
	Variable 1	*Variable 2*
Mean	0.083333	3.666667
Variance	0.025152	27.2897
Observations	12	12
Hypothesized Mean Difference	0	
df	11	
t Stat	-2.375081	
P(T<=t) one-tail	0.01841	
t Critical one-tail	1.795884	
P(T<=t) two-tail	0.03682	
t Critical two-tail	2.200986	

Farm B: TSS Discharges - Composite Sampling			
	Basin 25 Effluent	Basin 26 Effluent	
7/22/98	0.3		
7/23/98		3.6	
7/29/98	0.5		
7/30/98		4.9	
Avgs.	0.4	4.25	

Farm B - Influent Flows			
Date	Weir Reading	Flow (GPM)	
7/2/98	1.25"	400	
7/22/98	1.25"	400	
7/30/98	1.25	344	
8/31/98	1.25"	400	

Farm B: TSS versus TKN		
TSS (mg/L)	TKN (mg/L)	
1	6.3	
12.6	8.2	
4.2	6.6	
13.6	5.6	
7.4	6.3	
0.2	5.6	
1.2	4.6	
1.6	6.3	
1.6	6.3	
2.4	4.9	
14.8	6.9	
3	6.9	
3.8	8.2	
8.6	4	
1	4.9	
0	4.9	
1.6	6.9	
1.2	4.6	

Farm B: TKN versus TAN		
TKN (mg/L	TAN (mg/L)	
6.3	1.2	
8.2	1.8	
6.6	1	
5.6	0.6	
6.3	1.6	
5.6	1.6	
4.6	0.8	
6.3	1.4	
6.3	1.6	
4.9	1	
6.9	1.4	
6.9	1.6	
8.2	2.2	
4	1	
4.9	1.4	
4.9	1.2	
6.9	1.6	
4.6	1.6	

Farm B - TSS Values During the Cleaning of a Standard Grower Basin and a High Energy Basi									
High Energy Basin				Standard Feed Basin					
	Minutes	TSS(mg/L)			Minutes	TSS (mg/L)			
1:10	0	1		12:35	0	2.4			
1:15	5	12.6		12:40	5	14.8			
1:17	7	4.2		12:44	9	3			
1:19	9	13.6		12:48	13	3.8			
1:21	11	7.4		12:52	17	8.6			
1:23	13	0.2		1:00	25	1			
1:25	15	1.2		1:04	29	0			
1:27	17	1.6		1:08	33	1.6			
1:29	19	1.6		1:12	37	1.2			