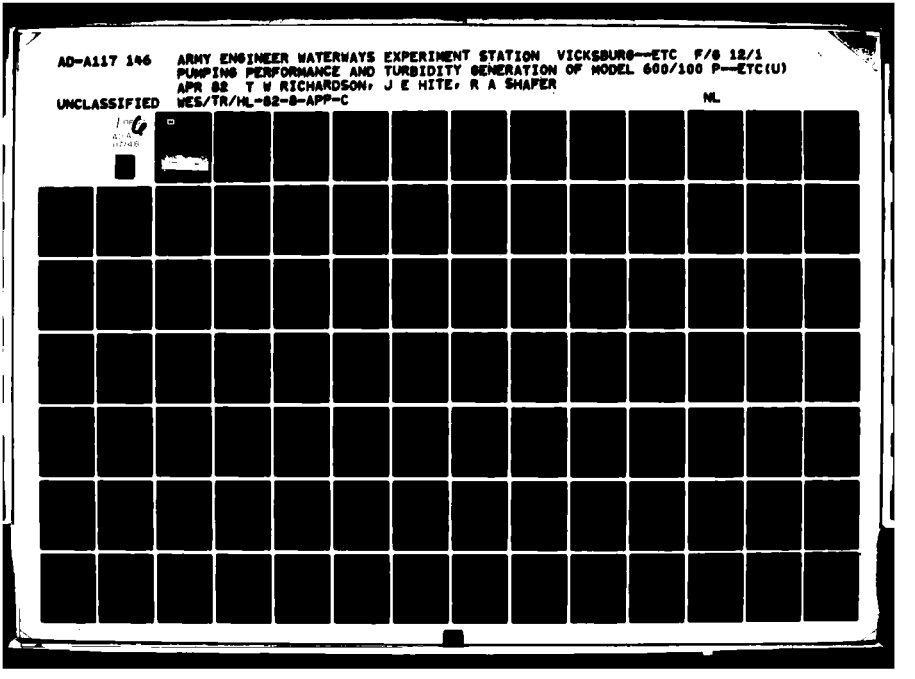

AD-A117 146
ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER
UNCLASSIFIED
WES/TR/HL-82-8-APP-C
NL

RUN NUMBER- 2
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	646.	ND	7.9	1931.	1.00	NA	NA	9.2	22.2	149.	11.	0.07
28.50	748.	ND	7.1	1737.	1.00	NA	NA	9.3	22.3	172.	10.	0.06
28.65	698.	ND	7.0	1713.	1.00	NA	NA	9.5	22.6	161.	10.	0.06
28.80	697.	ND	6.9	1699.	1.00	NA	NA	9.3	22.2	160.	10.	0.06
28.95	698.	ND	6.8	1665.	1.00	NA	NA	9.5	22.7	161.	10.	0.06
29.10	697.	ND	6.8	1680.	1.00	NA	NA	9.8	23.3	160.	10.	0.06
29.25	730.	ND	6.9	1701.	1.00	NA	NA	9.4	22.5	168.	10.	0.06
29.40	752.	ND	7.0	1712.	1.00	NA	NA	9.6	22.9	173.	10.	0.06
29.55	737.	ND	6.9	1686.	1.00	NA	NA	9.4	22.5	170.	10.	0.06
29.70	704.	ND	6.7	1641.	1.00	NA	NA	9.1	21.8	162.	9.	0.06
29.85	683.	ND	6.7	1649.	1.00	NA	NA	9.2	22.0	157.	9.	0.06
30.00	685.	ND	6.6	1633.	1.00	NA	NA	9.3	22.2	158.	9.	0.06
30.15	695.	ND	6.8	1663.	1.00	NA	NA	9.2	21.9	160.	9.	0.06
30.3	707.	ND	6.8	1681.	1.00	NA	NA	9.4	22.4	163.	10.	0.06
30.45	716.	ND	6.9	1698.	1.00	NA	NA	9.4	22.5	165.	10.	0.06
30.60	717.	ND	7.0	1711.	1.00	NA	NA	9.5	22.6	165.	10.	0.06
30.75	710.	ND	7.5	1842.	1.00	NA	NA	9.2	22.1	163.	10.	0.06
30.9	695.	ND	8.9	2194.	1.00	NA	NA	8.7	21.3	160.	12.	0.07
31.05	683.	ND	10.4	2546.	1.00	NA	NA	8.6	21.6	157.	14.	0.09
31.20	593.	ND	11.1	2736.	1.00	NA	NA	8.3	21.0	136.	15.	0.11
31.35	612.	ND	11.8	2902.	1.00	NA	NA	7.8	20.0	141.	15.	0.10
31.50	741.	ND	12.5	3063.	1.00	NA	NA	7.8	20.3	171.	16.	0.09
31.65	748.	ND	13.3	3279.	1.00	NA	NA	7.8	20.7	172.	17.	0.10
31.80	748.	ND	13.4	3291.	1.00	NA	NA	7.5	20.1	172.	17.	0.10
31.95	741.	ND	12.9	3178.	1.00	NA	NA	7.5	20.0	171.	16.	0.09
32.10	726.	ND	12.8	3143.	1.00	NA	NA	7.2	19.2	167.	15.	0.09
32.25	744.	ND	12.8	3151.	1.00	NA	NA	7.7	20.4	171.	16.	0.09
32.40	749.	ND	13.2	3245.	1.00	NA	NA	7.9	20.9	172.	17.	0.10
32.55	724.	ND	13.2	3240.	1.00	NA	NA	7.9	20.9	166.	17.	0.10
32.70	726.	ND	13.8	3391.	1.00	NA	NA	7.4	20.0	167.	17.	0.10
32.85	728.	ND	13.4	3306.	1.00	NA	NA	7.4	20.0	167.	17.	0.10
33.00	732.	ND	13.3	3259.	1.00	NA	NA	7.1	19.2	168.	16.	0.09
33.15	738.	ND	12.8	3154.	1.00	NA	NA	7.6	20.1	170.	16.	0.09
33.30	733.	ND	13.1	3215.	1.00	NA	NA	7.5	19.9	168.	15.	0.10
33.45	718.	ND	13.6	3335.	1.00	NA	NA	7.6	20.4	165.	17.	0.10
33.60	690.	ND	13.9	3422.	1.00	NA	NA	7.6	20.5	159.	18.	0.11
33.75	639.	ND	14.0	3439.	1.00	NA	NA	7.5	20.4	147.	18.	0.12
33.9	660.	ND	13.7	3369.	1.00	NA	NA	7.6	20.4	152.	17.	0.11
34.05	644.	ND	13.1	3224.	1.00	NA	NA	7.1	19.0	148.	16.	0.10

RUN NUMBER- 2
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2	696.	ND	13.1	3233.	1.00	NA	NA	7.5	20.1	160.	16.	0.10
34.35	71[illegible].	ND	13.3	3263.	1.00	NA	NA	7.9	20.9	163.	17.	0.11
34.50	704.	ND	13.1	3218.	1.00	NA	NA	8.2	21.6	162.	18.	0.11

LOCATION- ENGINEER YARD
DATE OF TEST- 8 21 78
RUN NUMBER- 3
SEGMENT NUMBER- 1
WATER DEPTH- 30 FT
MATERIAL TYPE- WATER
IN SITU PERCENT SOLIDS- NA
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	668.	ND	13.1	3223.	1.00	NA	NA	6.6	17.9	154.	15.	0.09
0.15	699.	ND	13.0	3194.	1.00	NA	NA	7.1	19.0	161.	15.	0.10
0.30	711.	ND	13.0	3209.	1.00	NA	NA	7.9	20.8	163.	17.	0.10
0.45	695.	ND	13.5	3326.	1.00	NA	NA	7.8	20.9	160.	18.	0.11
0.60	687.	ND	13.4	3293.	1.00	NA	NA	7.5	20.0	158.	17.	0.11
0.75	731.	ND	13.0	3205.	1.00	NA	NA	7.5	20.0	168.	16.	0.10
0.90	738.	ND	13.0	3187.	1.00	NA	NA	7.8	20.5	170.	17.	0.10
1.05	783.	ND	13.1	3218.	1.00	NA	NA	7.5	20.2	180.	16.	0.09
1.20	872.	ND	14.1	3480.	1.00	NA	NA	8.3	22.3	201.	20.	0.10
1.35	868.	ND	14.3	3523.	1.00	NA	NA	8.9	23.8	200.	21.	0.11
1.50	840.	ND	14.0	3442.	1.00	NA	NA	8.7	23.0	193.	20.	0.10
1.65	836.	ND	13.6	3351.	1.00	NA	NA	8.7	22.9	192.	19.	0.10
1.80	877.	ND	13.7	3364.	1.00	NA	NA	8.4	22.4	202.	19.	0.09
1.95	902.	ND	13.5	3310.	1.00	NA	NA	8.2	21.7	207.	18.	0.09
2.10	918.	ND	13.4	3302.	1.00	NA	NA	8.2	21.7	211.	18.	0.09
2.25	889.	ND	13.4	3295.	1.00	NA	NA	8.2	21.7	204.	18.	0.09
2.40	855.	ND	13.5	3312.	1.00	NA	NA	8.2	21.8	197.	18.	0.09
2.55	868.	ND	13.8	3403.	1.00	NA	NA	7.7	20.8	200.	18.	0.09
2.70	869.	ND	13.5	3329.	1.00	NA	NA	8.0	21.2	200.	18.	0.09
2.85	854.	ND	13.3	3282.	1.00	NA	NA	7.9	20.9	196.	17.	0.09
3.00	832.	ND	13.3	3270.	1.00	NA	NA	7.9	21.0	191.	17.	0.09
3.15	836.	ND	13.3	3276.	1.00	NA	NA	7.9	20.9	192.	17.	0.09
3.30	899.	ND	13.3	3282.	1.00	NA	NA	7.8	20.8	207.	17.	0.08
3.45	897.	ND	13.3	3280.	1.00	NA	NA	7.9	21.0	206.	17.	0.08
3.60	876.	ND	13.1	3234.	1.00	NA	NA	8.1	21.5	202.	18.	0.09
3.75	887.	ND	13.2	3258.	1.00	NA	NA	7.9	20.9	204.	17.	0.08
3.90	856.	ND	13.3	3266.	1.00	NA	NA	7.6	20.3	197.	17.	0.09
4.05	854.	ND	13.2	3239.	1.00	NA	NA	7.9	21.0	196.	17.	0.09
4.20	846.	ND	13.2	3256.	1.00	NA	NA	7.8	20.7	194.	17.	0.09
4.35	846.	ND	13.2	3258.	1.00	NA	NA	7.9	20.9	195.	17.	0.09
4.50	857.	ND	13.2	3257.	1.00	NA	NA	7.8	20.7	197.	17.	0.09
4.65	847.	ND	13.2	3243.	1.00	NA	NA	7.9	20.9	195.	17.	0.09
4.80	824.	ND	13.1	3231.	1.00	NA	NA	8.1	21.5	190.	18.	0.09

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	876.	ND	13.2	3241.	1.00	NA	NA	7.6	20.2	202.	17.	0.08
5.10	892.	ND	13.4	3292.	1.00	NA	NA	8.2	21.7	205.	18.	0.09
5.25	871.	ND	13.4	3293.	1.00	NA	NA	8.5	22.3	209.	19.	0.09
5.40	881.	ND	13.3	3265.	1.00	NA	NA	8.2	21.8	203.	18.	0.09
5.55	888.	ND	13.1	3217.	1.00	NA	NA	8.0	21.2	204.	17.	0.08
5.70	851.	ND	13.3	3267.	1.00	NA	NA	7.7	20.6	196.	17.	0.09
5.85	832.	ND	13.4	3286.	1.00	NA	NA	7.9	21.0	191.	17.	0.09
6.00	900.	ND	13.3	3266.	1.00	NA	NA	8.0	21.3	207.	18.	0.08
6.15	893.	ND	13.2	3235.	1.00	NA	NA	8.2	21.5	205.	18.	0.09
6.30	878.	ND	13.4	3296.	1.00	NA	NA	8.4	22.1	202.	18.	0.09
6.45	864.	ND	13.1	3219.	1.00	NA	NA	8.2	21.5	199.	17.	0.09
6.60	815.	ND	13.2	3234.	1.00	NA	NA	7.3	19.5	187.	16.	0.08
6.75	830.	ND	12.7	3134.	1.00	NA	NA	8.2	21.4	191.	17.	0.09
6.90	845.	ND	12.7	3115.	1.00	NA	NA	8.0	20.9	194.	16.	0.08
7.05	841.	ND	13.1	3221.	1.00	NA	NA	8.2	21.5	194.	17.	0.09
7.20	798.	ND	13.3	3281.	1.00	NA	NA	8.1	21.3	183.	18.	0.10
7.35	764.	ND	13.1	3223.	1.00	NA	NA	8.2	21.5	176.	18.	0.10
7.50	714.	ND	13.1	3226.	1.00	NA	NA	8.3	21.9	164.	18.	0.11
7.65	772.	ND	13.2	3236.	1.00	NA	NA	8.0	21.3	177.	17.	0.10
7.80	840.	ND	12.9	3171.	1.00	NA	NA	7.5	19.9	193.	16.	0.08
7.95	838.	ND	12.9	3176.	1.00	NA	NA	7.8	20.7	193.	17.	0.09
8.10	856.	ND	13.1	3227.	1.00	NA	NA	8.1	21.3	197.	17.	0.09
8.25	876.	ND	13.2	3255.	1.00	NA	NA	7.8	20.7	201.	17.	0.08
8.40	866.	ND	13.3	3265.	1.00	NA	NA	8.0	21.1	199.	17.	0.09
8.55	841.	ND	13.4	3297.	1.00	NA	NA	8.2	21.8	193.	18.	0.09
8.70	882.	ND	13.5	3332.	1.00	NA	NA	8.4	22.2	203.	19.	0.09
8.85	854.	ND	13.5	3312.	1.00	NA	NA	8.7	22.9	197.	19.	0.10
9.00	820.	ND	13.5	3329.	1.00	NA	NA	8.9	23.4	189.	20.	0.10
9.15	879.	ND	13.8	3386.	1.00	NA	NA	8.8	23.3	202.	20.	0.10
9.30	840.	ND	13.8	3386.	1.00	NA	NA	8.7	23.0	193.	20.	0.10
9.45	842.	ND	13.8	3387.	1.00	NA	NA	8.7	23.0	194.	20.	0.10
9.60	851.	ND	13.9	3415.	1.00	NA	NA	8.5	22.6	196.	19.	0.10
9.75	834.	ND	13.8	3396.	1.00	NA	NA	8.0	21.5	192.	18.	0.10
9.90	828.	ND	13.6	3345.	1.00	NA	NA	7.9	21.0	189.	18.	0.09
10.05	877.	ND	13.4	3305.	1.00	NA	NA	8.1	21.4	202.	18.	0.09
10.20	882.	ND	13.4	3283.	1.00	NA	NA	8.3	21.8	203.	18.	0.09
10.35	882.	ND	13.4	3296.	1.00	NA	NA	8.3	21.9	203.	18.	0.09
10.50	844.	ND	13.1	3231.	1.00	NA	NA	8.3	21.9	194.	18.	0.09
10.65	825.	ND	13.1	3224.	1.00	NA	NA	8.6	22.4	190.	18.	0.10

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	838.	ND	13.1	3234.	1.00	NA	NA	8.6	22.6	193.	18.	0.10
10.95	844.	ND	13.1	3213.	1.00	NA	NA	8.4	22.1	194.	18.	0.09
11.10	821.	ND	13.0	3199.	1.00	NA	NA	8.9	23.1	199.	19.	0.10
11.25	846.	ND	13.0	3205.	1.00	NA	NA	9.1	23.5	195.	19.	0.10
11.40	856.	ND	13.1	3224.	1.00	NA	NA	9.1	23.6	197.	19.	0.10
11.55	813.	ND	13.3	3264.	1.00	NA	NA	9.0	23.6	187.	19.	0.10
11.70	741.	ND	13.1	3227.	1.00	NA	NA	8.8	23.1	170.	19.	0.11
11.85	769.	ND	13.2	3256.	1.00	NA	NA	9.0	23.5	175.	19.	0.11
12.00	717.	ND	13.2	3236.	1.00	NA	NA	9.1	23.7	165.	19.	0.12
12.15	645.	ND	13.2	3246.	1.00	NA	NA	8.9	23.3	148.	19.	0.13
12.30	638.	ND	13.3	3261.	1.00	NA	NA	8.7	22.9	147.	19.	0.13
12.45	756.	ND	13.3	3271.	1.00	NA	NA	8.9	23.3	172.	19.	0.11
12.60	737.	ND	13.1	3215.	1.00	NA	NA	8.6	22.5	169.	18.	0.11
12.75	728.	ND	12.9	3173.	1.00	NA	NA	8.7	22.6	167.	18.	0.11
12.90	796.	ND	13.0	3186.	1.00	NA	NA	8.9	23.2	183.	19.	0.10
13.05	872.	ND	13.1	3212.	1.00	NA	NA	9.1	23.7	201.	19.	0.10
13.20	876.	ND	12.8	3141.	1.00	NA	NA	9.4	24.3	201.	19.	0.10
13.35	878.	ND	12.7	3118.	1.00	NA	NA	8.5	22.2	202.	18.	0.09
13.50	875.	ND	12.9	3168.	1.00	NA	NA	8.6	22.3	201.	18.	0.09
13.65	873.	ND	12.9	3161.	1.00	NA	NA	8.4	21.9	201.	18.	0.09
13.80	873.	ND	12.7	3130.	1.00	NA	NA	8.5	22.2	201.	18.	0.09
13.95	892.	ND	12.9	3181.	1.00	NA	NA	8.7	22.6	205.	18.	0.09
14.10	875.	ND	13.2	3242.	1.00	NA	NA	8.8	23.1	201.	19.	0.09
14.25	878.	ND	12.9	3168.	1.00	NA	NA	9.1	23.6	202.	19.	0.09
14.40	783.	ND	13.0	3197.	1.00	NA	NA	9.4	24.2	180.	20.	0.11
14.55	813.	ND	13.3	3280.	1.00	NA	NA	9.7	25.1	187.	21.	0.11
14.70	824.	ND	12.8	3152.	1.00	NA	NA	9.7	25.0	189.	20.	0.11
14.85	774.	ND	12.3	3022.	1.00	NA	NA	10.0	25.5	178.	19.	0.11
15.00	773.	ND	12.0	2955.	1.00	NA	NA	9.6	24.4	178.	18.	0.10
15.15	823.	ND	12.0	2958.	1.00	NA	NA	9.7	24.6	189.	18.	0.10
15.30	837.	ND	11.9	2917.	1.00	NA	NA	9.6	24.2	192.	18.	0.09
15.45	826.	ND	11.8	2890.	1.00	NA	NA	9.3	23.5	190.	17.	0.09
15.60	858.	ND	11.7	2880.	1.00	NA	NA	9.3	23.6	197.	17.	0.09
15.75	858.	ND	11.7	2875.	1.00	NA	NA	9.3	23.6	197.	17.	0.09
15.90	850.	ND	11.5	2831.	1.00	NA	NA	9.4	23.6	195.	17.	0.09
16.05	858.	ND	11.4	2812.	1.00	NA	NA	8.6	21.8	197.	15.	0.08
16.20	859.	ND	11.6	2846.	1.00	NA	NA	9.2	23.3	198.	17.	0.08
16.35	857.	ND	11.6	2847.	1.00	NA	NA	8.9	22.6	197.	16.	0.08
16.50	786.	ND	11.5	2834.	1.00	NA	NA	9.5	24.0	181.	17.	0.09

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	813.	ND	11.7	2878.	1.00	NA	NA	9.5	24.1	187.	18.	0.09
16.80	846.	ND	11.9	2928.	1.00	NA	NA	9.2	23.5	195.	17.	0.09
16.95	839.	ND	11.7	2873.	1.00	NA	NA	9.3	23.6	193.	17.	0.09
17.10	882.	ND	11.6	2863.	1.00	NA	NA	9.5	24.1	203.	17.	0.09
17.25	874.	ND	11.8	2898.	1.00	NA	NA	10.0	25.2	201.	18.	0.09
17.40	830.	ND	11.9	2939.	1.00	NA	NA	9.4	23.8	191.	18.	0.09
17.55	773.	ND	11.6	2845.	1.00	NA	NA	9.6	24.2	178.	17.	0.10
17.70	761.	ND	11.7	2874.	1.00	NA	NA	9.7	24.5	175.	18.	0.10
17.85	820.	ND	11.8	2913.	1.00	NA	NA	9.7	24.5	189.	18.	0.10
18.00	823.	ND	11.8	2906.	1.00	NA	NA	9.5	24.0	189.	18.	0.09
18.15	823.	ND	11.7	2886.	1.00	NA	NA	9.2	23.3	189.	17.	0.09
18.30	835.	ND	11.7	2871.	1.00	NA	NA	9.3	23.6	192.	17.	0.09
18.45	846.	ND	11.4	2796.	1.00	NA	NA	9.5	24.0	195.	17.	0.09
18.60	856.	ND	10.2	2519.	1.00	NA	NA	9.8	24.2	197.	15.	0.08
18.75	808.	ND	10.0	2453.	1.00	NA	NA	9.9	24.4	186.	15.	0.08
18.90	788.	ND	10.0	2466.	1.00	NA	NA	9.9	24.5	181.	15.	0.08
19.05	826.	ND	10.1	2476.	1.00	NA	NA	10.0	24.5	190.	15.	0.08
19.20	867.	ND	10.1	2472.	1.00	NA	NA	10.0	24.6	199.	15.	0.08
19.35	829.	ND	10.1	2481.	1.00	NA	NA	9.9	24.3	191.	15.	0.08
19.50	849.	ND	10.0	2456.	1.00	NA	NA	9.8	24.1	195.	15.	0.08
19.65	837.	ND	10.0	2458.	1.00	NA	NA	9.8	24.1	193.	15.	0.08
19.80	835.	ND	10.0	2471.	1.00	NA	NA	9.9	24.5	192.	15.	0.08
19.95	838.	ND	10.0	2462.	1.00	NA	NA	10.1	24.9	193.	16.	0.08
20.10	875.	ND	9.8	2413.	1.00	NA	NA	10.2	24.9	201.	15.	0.08
20.25	847.	ND	9.8	2404.	1.00	NA	NA	9.9	24.4	195.	15.	0.08
20.40	809.	ND	9.9	2441.	1.00	NA	NA	9.7	24.0	186.	15.	0.08
20.55	798.	ND	10.0	2464.	1.00	NA	NA	9.8	24.1	183.	15.	0.08
20.70	783.	ND	9.6	2359.	1.00	NA	NA	10.0	24.4	180.	15.	0.08
20.85	788.	ND	9.8	2410.	1.00	NA	NA	9.9	24.3	181.	15.	0.08
21.00	798.	ND	9.9	2442.	1.00	NA	NA	9.8	24.1	183.	15.	0.08
21.15	788.	ND	9.9	2433.	1.00	NA	NA	10.0	24.6	181.	15.	0.08
21.30	799.	ND	9.7	2386.	1.00	NA	NA	9.9	24.0	184.	14.	0.08
21.45	799.	ND	9.2	2250.	1.00	NA	NA	9.5	23.3	184.	13.	0.07
21.60	798.	ND	8.3	2029.	1.00	NA	NA	9.7	23.4	184.	12.	0.07
21.75	823.	ND	7.6	1875.	1.00	NA	NA	10.1	24.3	189.	11.	0.06
21.90	849.	ND	7.5	1840.	1.00	NA	NA	9.6	23.1	195.	11.	0.05
22.05	856.	ND	7.5	1851.	1.00	NA	NA	9.3	22.4	197.	10.	0.05
22.20	866.	ND	7.5	1851.	1.00	NA	NA	9.4	22.5	199.	11.	0.05
22.35	822.	ND	7.5	1835.	1.00	NA	NA	9.6	23.0	189.	11.	0.06

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	839.	ND	7.4	1809.	1.00	NA	NA	9.7	23.3	193.	11.	0.06
22.65	884.	ND	7.5	1835.	1.00	NA	NA	9.7	23.2	203.	11.	0.05
22.80	951.	ND	7.2	1770.	1.00	NA	NA	9.5	22.7	219.	10.	0.05
22.95	936.	ND	7.1	1755.	1.00	NA	NA	9.5	22.7	215.	10.	0.05
23.10	892.	ND	7.3	1788.	1.00	NA	NA	9.5	22.8	205.	10.	0.05
23.25	866.	ND	7.4	1816.	1.00	NA	NA	9.6	23.0	199.	11.	0.05
23.40	862.	ND	7.2	1781.	1.00	NA	NA	9.6	23.0	198.	10.	0.05
23.55	867.	ND	7.2	1776.	1.00	NA	NA	9.4	22.4	199.	10.	0.05
23.70	865.	ND	7.4	1812.	1.00	NA	NA	9.2	22.1	199.	10.	0.05
23.85	870.	ND	7.3	1804.	1.00	NA	NA	10.2	24.3	210.	11.	0.06
24.00	881.	ND	7.1	1739.	1.00	NA	NA	9.6	23.0	203.	10.	0.05
24.15	879.	ND	7.1	1738.	1.00	NA	NA	9.2	22.0	202.	10.	0.05
24.30	856.	ND	7.2	1781.	1.00	NA	NA	9.4	22.5	197.	10.	0.05
24.45	843.	ND	7.1	1758.	1.00	NA	NA	9.2	22.0	194.	10.	0.05
24.60	865.	ND	7.0	1732.	1.00	NA	NA	9.2	22.1	199.	10.	0.05
24.75	908.	ND	7.3	1807.	1.00	NA	NA	9.3	22.2	209.	10.	0.05
24.90	940.	ND	7.3	1794.	1.00	NA	NA	9.5	22.7	216.	10.	0.05
25.05	963.	ND	7.2	1764.	1.00	NA	NA	9.8	23.4	221.	10.	0.05
25.20	982.	ND	7.2	1775.	1.00	NA	NA	9.8	23.4	226.	10.	0.05
25.35	1034.	ND	8.6	2104.	1.00	NA	NA	9.8	23.7	238.	13.	0.05
25.50	976.	ND	10.0	2470.	1.00	NA	NA	9.9	24.4	225.	15.	0.07
25.65	937.	ND	11.1	2719.	1.00	NA	NA	9.5	23.8	216.	16.	0.08
25.80	912.	ND	12.6	3094.	1.00	NA	NA	9.2	23.7	213.	19.	0.09
25.95	896.	ND	13.3	3280.	1.00	NA	NA	9.5	24.6	206.	20.	0.10
26.10	871.	ND	13.6	3352.	1.00	NA	NA	8.3	22.0	200.	19.	0.09
26.25	836.	ND	13.9	3419.	1.00	NA	NA	8.0	21.4	192.	18.	0.10
26.40	813.	ND	14.1	3476.	1.00	NA	NA	7.9	21.4	187.	19.	0.10
26.55	845.	ND	14.3	3513.	1.00	NA	NA	8.4	22.6	194.	20.	0.10
26.70	851.	ND	13.8	3399.	1.00	NA	NA	8.4	22.4	196.	19.	0.10
26.85	820.	ND	13.7	3366.	1.00	NA	NA	8.2	21.9	189.	19.	0.10
27.00	840.	ND	13.9	3425.	1.00	NA	NA	7.9	21.2	193.	18.	0.10
27.15	853.	ND	13.8	3400.	1.00	NA	NA	8.1	21.6	196.	19.	0.09
27.30	859.	ND	13.8	3389.	1.00	NA	NA	8.2	21.8	198.	19.	0.09
27.45	865.	ND	13.8	3396.	1.00	NA	NA	8.0	21.4	199.	18.	0.09
27.60	862.	ND	13.7	3360.	1.00	NA	NA	8.0	21.4	198.	19.	0.09
27.75	868.	ND	13.5	3314.	1.00	NA	NA	8.1	21.4	200.	18.	0.09
27.90	928.	ND	13.6	3345.	1.00	NA	NA	8.2	21.8	214.	18.	0.09
28.05	949.	ND	13.9	3421.	1.00	NA	NA	8.7	23.1	218.	20.	0.09
28.20	945.	ND	13.8	3404.	1.00	NA	NA	8.5	22.6	217.	19.	0.09

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	929.	ND	14.3	3435.	1.00	NA	NA	7.6	20.7	214.	18.	0.08
28.50	916.	ND	14.3	3519.	1.00	NA	NA	8.0	21.6	211.	19.	0.09
28.65	906.	ND	14.2	3493.	1.00	NA	NA	8.5	22.7	208.	20.	0.10
28.80	896.	ND	14.2	3488.	1.00	NA	NA	8.2	22.1	206.	20.	0.09
28.95	891.	ND	14.2	3501.	1.00	NA	NA	8.5	22.8	205.	20.	0.10
29.10	904.	ND	14.3	3517.	1.00	NA	NA	8.2	22.0	208.	20.	0.09
29.25	905.	ND	14.1	3472.	1.00	NA	NA	8.0	21.6	207.	19.	0.09
29.40	892.	ND	14.2	3481.	1.00	NA	NA	7.9	21.3	205.	19.	0.09
29.55	888.	ND	13.9	3417.	1.00	NA	NA	7.1	19.4	204.	17.	0.08
29.70	835.	ND	14.0	3437.	1.00	NA	NA	7.5	20.4	192.	18.	0.09
29.85	759.	ND	13.5	3314.	1.00	NA	NA	7.8	20.9	175.	17.	0.10
30.00	670.	ND	13.1	3210.	1.00	NA	NA	6.7	18.1	154.	15.	0.10
30.15	619.	ND	13.1	3220.	1.00	NA	NA	6.5	17.7	142.	14.	0.10
30.30	568.	ND	12.7	3133.	1.00	NA	NA	5.4	15.0	131.	12.	0.09
30.45	495.	ND	12.2	3008.	1.00	NA	NA	6.0	16.1	114.	12.	0.11
30.60	417.	ND	11.8	2894.	1.00	NA	NA	5.8	15.5	96.	11.	0.12
30.75	334.	ND	11.1	2738.	1.00	NA	NA	5.4	14.3	77.	10.	0.13
30.90	302.	ND	10.1	2496.	1.00	NA	NA	6.1	15.6	70.	10.	0.14
31.05	265.	ND	9.4	2323.	1.00	NA	NA	7.1	17.8	61.	10.	0.17
31.20	208.	ND	6.4	1573.	1.00	NA	NA	7.9	18.8	48.	7.	0.16
31.35	54.	ND	3.1	761.	1.00	NA	NA	8.4	19.6	12.	4.	0.33
31.50	20.	ND	1.5	370.	1.00	NA	NA	8.5	19.6	5.	2.	0.39
31.65	16.	ND	1.1	261.	1.00	NA	NA	8.0	18.5	4.	1.	0.32
31.80	19.	ND	0.8	208.	1.00	NA	NA	8.1	18.7	4.	1.	0.22
31.95	11.	ND	0.7	163.	1.00	NA	NA	8.4	19.3	3.	1.	0.31
32.10	23.	ND	0.5	127.	1.00	NA	NA	8.5	19.6	5.	1.	0.12
32.25	11.	ND	0.5	122.	1.00	NA	NA	8.3	19.2	3.	1.	0.22
32.40	17.	ND	0.4	92.	1.00	NA	NA	8.3	19.1	4.	0.	0.11
32.55	20.	ND	0.3	76.	1.00	NA	NA	8.0	18.4	5.	0.	0.08
32.70	14.	ND	0.3	77.	1.00	NA	NA	7.8	18.0	3.	0.	0.11
32.85	9.	ND	0.3	78.	1.00	NA	NA	7.8	18.1	2.	0.	0.17
33.00	5.	ND	0.3	68.	1.00	NA	NA	8.0	18.5	1.	0.	0.28
33.15	12.	ND	0.2	52.	1.00	NA	NA	8.2	18.9	3.	0.	0.09
33.30	12.	ND	0.2	45.	1.00	NA	NA	8.1	18.6	3.	0.	0.08
33.45	12.	ND	0.2	54.	1.00	NA	NA	8.0	18.4	3.	0.	0.09
33.60	11.	ND	0.1	35.	1.00	NA	NA	8.0	18.4	2.	0.	0.06
33.75	11.	ND	0.1	35.	1.00	NA	NA	7.7	17.8	2.	0.	0.06
33.90	13.	ND	0.2	37.	1.00	NA	NA	7.7	17.8	3.	0.	0.06
34.05	11.	ND	0.2	38.	1.00	NA	NA	7.9	18.3	3.	0.	0.07

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.25	11.	ND	0.2	39.	1.00	NA	NA	7.9	18.3	2.	0.	0.08
34.35	11.	ND	0.1	37.	1.00	NA	NA	7.9	18.3	2.	0.	0.07

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 25 78
RUN NUMBER- 5
SEGMENT NUMBER- 2
WATER DEPTH- 14 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3(
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	865.	16.3	7.9	1955.	1.11	7.0	60.	6.3	15.5	199.	8.	0.04
0.15	906.	19.1	12.6	3102.	1.23	14.2	195.	6.3	16.9	298.	14.	0.07
0.30	910.	18.5	7.4	1830.	1.07	4.5	36.	6.2	15.3	209.	7.	0.03
0.45	897.	17.5	7.1	1750.	1.07	4.0	31.	6.2	15.2	206.	7.	0.03
0.60	891.	16.8	9.3	2298.	1.31	18.5	188.	6.2	15.7	2[illegible]5.	9.	0.05
0.75	892.	18.6	10.4	2568.	1.54	33.0	374.	6.2	16.[illegible]	2[illegible]5.	11.	0.05
0.90	882.	18.1	7.2	1759.	1.04	2.5	19.	6.5	15.8	203.	7.	0.03
1.05	870.	17.0	8.0	1967.	1.36	21.9	190.	6.8	16.6	200.	8.	0.04
1.20	885.	18.3	9.4	2302.	1.70	42.3	430.	6.8	17.0	203.	10.	0.05
1.35	902.	17.9	6.8	1668.	1.24	14.5	106.	6.9	16.6	2[illegible]8.	7.	[illegible].03
1.50	868.	14.9	7.3	1795.	1.25	15.3	121.	7.2	17.4	200.	8.	0.04
1.65	898.	15.9	8.5	2087.	1.54	32.8	303.	7.3	18.0	207.	10.	0.05
1.80	923.	15.6	7.9	1943.	1.24	14.5	124.	7.3	17.8	212.	9.	0.04
1.95	942.	14.1	7.3	1789.	1.17	10.1	80.	6.7	16.3	217.	7.	0.03
2.10	960.	13.3	7.0	1725.	1.35	21.1	161.	6.7	16.3	221.	7.	0.03
2.25	930.	14.3	7.4	1813.	1.39	23.7	190.	7.0	16.9	214.	8.	0.04
2.40	941.	14.7	7.2	1770.	1.10	5.9	46.	6.9	16.8	217.	8.	0.03
2.55	947.	14.5	6.2	1514.	1.18	11.1	74.	6.7	16.1	218.	6.	0.03
2.70	920.	14.7	7.0	1719.	1.39	23.5	178.	6.9	16.7	212.	7.	0.03
2.85	925.	17.2	8.9	2179.	1.41	25.1	242.	7.1	17.6	213.	10.	0.05
3.00	925.	17.9	7.3	1785.	1.08	4.6	37.	6.8	16.5	213.	7.	0.04
3.15	917.	17.8	7.3	1787.	1.20	12.3	97.	6.7	16.2	211.	7.	0.04
3.30	911.	17.9	9.5	2348.	1.29	17.3	180.	7.1	17.8	210.	11.	0.05
3.45	912.	18.4	11.9	2918.	1.26	15.9	205.	6.8	17.8	210.	14.	0.06
3.60	910.	17.9	7.5	1839.	1.09	5.2	42.	6.4	15.6	209.	7.	0.03
3.75	909.	17.6	8.6	2105.	1.25	15.4	143.	6.8	16.9	209.	9.	0.04
3.90	917.	18.9	10.0	2464.	1.25	15.1	164.	6.8	17.3	211.	11.	0.05
4.05	915.	18.1	7.7	1893.	1.05	3.1	26.	6.6	16.1	210.	8.	0.04
4.20	891.	16.7	7.5	1856.	1.21	12.1	99.	6.5	15.8	205.	8.	0.04
4.35	885.	17.6	8.5	2092.	1.41	25.0	231.	6.6	16.3	204.	9.	0.04
4.50	892.	17.9	8.6	2120.	1.15	8.8	83.	6.7	16.5	2[illegible]5.	9.	0.04
4.65	893.	16.4	8.5	2084.	1.11	6.5	60.	6.5	16.1	205.	9.	0.04
4.80	875.	15.6	8.8	2163.	1.24	14.6	139.	6.7	16.6	201.	9.	0.05

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	909.	16.0	9.5	2336.	1.37	22.5	232.	6.4	16.2	209.	10.	0.05
5.10	919.	14.2	9.3	2285.	1.10	6.1	62.	6.6	16.7	211.	10.	0.05
5.25	917.	13.9	8.6	2115.	1.10	5.8	54.	6.5	16.1	211.	9.	0.04
5.40	924.	13.5	9.6	2350.	1.37	22.7	235.	6.7	16.8	213.	10.	0.05
5.55	944.	14.5	9.0	2220.	1.28	16.9	166.	6.8	16.9	217.	10.	0.04
5.70	927.	12.7	7.6	1880.	1.20	12.1	101.	6.5	15.9	213.	8.	0.04
5.85	911.	13.9	8.0	1975.	1.33	19.7	172.	6.6	16.3	210.	8.	0.04
6.00	912.	15.5	9.0	2212.	1.41	24.6	240.	6.5	16.5	210.	10.	0.05
6.15	911.	16.7	8.6	2104.	1.42	25.5	237.	6.5	16.2	209.	9.	0.04
6.30	894.	17.5	7.9	1954.	1.16	9.5	82.	6.0	14.9	206.	7.	0.04
6.45	894.	16.2	9.6	2355.	1.26	15.6	162.	6.3	15.9	206.	10.	0.05
6.60	931.	17.6	11.4	2800.	1.34	20.6	254.	6.1	16.0	214.	12.	0.06
6.75	931.	17.1	7.8	1913.	1.04	2.4	21.	6.0	14.7	214.	7.	0.03
6.90	918.	15.9	9.1	2237.	1.21	13.0	128.	6.1	15.4	211.	9.	0.04
7.05	915.	16.4	12.3	3021.	1.25	15.3	205.	6.2	16.7	210.	13.	0.06
7.20	913.	17.5	9.7	2396.	1.08	4.7	49.	6.2	15.8	210.	10.	0.05
7.35	902.	17.0	7.7	1892.	1.12	7.3	61.	6.2	15.2	208.	7.	0.04
7.50	885.	16.0	9.6	2366.	1.32	19.2	201.	6.4	16.3	204.	10.	0.05
7.65	876.	17.6	10.8	2645.	1.33	19.9	233.	6.7	17.3	201.	12.	0.06
7.80	866.	16.3	8.0	1977.	1.07	4.5	40.	6.5	16.0	199.	8.	0.04
7.95	857.	14.9	9.5	2331.	1.30	18.0	185.	6.6	16.6	197.	10.	0.05
8.10	877.	16.3	12.1	2980.	1.48	29.0	317.	6.8	17.3	202.	11.	0.06
8.25	904.	16.3	8.0	1972.	1.23	13.9	121.	6.9	16.8	208.	8.	0.04
8.40	891.	14.9	7.8	1924.	1.18	11.0	93.	6.7	16.4	205.	8.	0.04
8.55	894.	13.3	9.4	2062.	1.36	21.7	197.	6.7	16.5	206.	9.	0.04
8.70	915.	14.3	8.2	2026.	1.28	17.3	152.	6.7	16.4	210.	9.	0.04
8.85	935.	13.1	9.2	2267.	1.07	4.5	45.	6.9	17.2	215.	10.	0.05
9.00	927.	13.2	9.4	2302.	1.30	18.3	186.	6.4	16.1	213.	11.	0.05
9.15	911.	14.2	9.4	2315.	1.45	27.3	279.	2.7	7.5	209.	5.	0.02
9.30	922.	14.9	9.3	2299.	1.27	16.3	165.	3.4	9.3	212.	6.	0.03
9.45	922.	15.4	8.1	1986.	1.31	19.3	166.	6.7	16.4	212.	8.	0.04
9.60	913.	15.8	8.9	2197.	1.36	21.6	210.	6.4	16.0	210.	9.	0.04
9.75	921.	16.5	10.6	2608.	1.40	24.3	280.	6.5	15.7	212.	11.	0.05
9.90	910.	17.2	9.8	2416.	1.15	9.1	97.	6.2	15.9	209.	10.	0.05
10.05	906.	17.2	10.0	2448.	1.22	13.4	144.	6.0	15.3	208.	10.	0.05
10.20	906.	15.8	13.0	3205.	1.42	25.4	360.	6.5	17.7	208.	15.	0.07
10.35	904.	17.2	10.9	2676.	1.19	11.2	133.	6.3	16.4	208.	11.	0.05
10.50	892.	16.7	8.4	2071.	1.04	2.2	20.	6.2	15.4	205.	8.	0.04
10.65	878.	15.7	9.4	2305.	1.15	9.1	92.	6.2	15.6	202.	9.	0.05

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	885.	15.9	14.0	3441.	1.29	17.4	264.	6.5	18.0	204.	16.	0.08
10.95	873.	16.4	8.4	2062.	1.07	4.2	38.	6.6	16.3	201.	9.	0.04
11.10	871.	15.5	9.3	2294.	1.15	9.0	91.	6.1	15.4	200.	9.	0.05
11.25	873.	15.3	10.9	2690.	1.37	22.6	268.	5.9	15.4	201.	11.	0.05
11.40	875.	15.6	9.8	2408.	1.17	10.4	111.	7.0	17.7	201.	11.	0.05
11.55	871.	14.3	10.3	2541.	1.02	0.9	11.	6.1	15.8	200.	10.	0.05
11.70	870.	14.0	11.5	2826.	1.14	8.6	108.	6.4	16.8	200.	12.	0.06
11.85	884.	14.4	11.2	2764.	1.41	24.7	302.	6.6	17.1	203.	13.	0.06
12.00	915.	14.2	11.2	2757.	1.30	18.4	224.	6.8	17.6	210.	13.	0.06
12.15	919.	13.3	11.7	2888.	1.07	4.5	57.	6.9	18.0	211.	13.	0.06
12.30	922.	13.6	11.7	2868.	1.40	24.1	306.	6.7	17.6	212.	13.	0.06
12.45	914.	14.1	12.2	2993.	1.45	27.5	363.	7.0	18.4	210.	15.	0.07
12.60	912.	14.5	11.7	2883.	1.06	3.6	46.	7.1	18.5	210.	14.	0.06
12.75	913.	14.8	11.7	2880.	1.26	15.7	200.	6.4	16.8	209.	13.	0.06
12.90	921.	16.1	12.8	3145.	1.42	25.2	350.	6.8	18.3	212.	15.	0.07
13.05	906.	16.9	12.1	2986.	1.19	11.4	151.	6.5	17.3	208.	13.	0.06
13.20	903.	16.5	11.7	2888.	1.16	9.8	125.	6.0	15.9	208.	12.	0.06
13.35	906.	16.3	12.3	3018.	1.32	19.5	260.	6.2	16.7	208.	13.	0.06
13.50	903.	17.1	13.8	3392.	1.28	16.8	252.	6.8	18.7	208.	17.	0.08
13.65	904.	16.7	10.9	2686.	1.06	3.5	42.	6.0	15.7	208.	11.	0.05
13.80	892.	16.1	12.3	3014.	1.30	18.5	246.	6.4	17.0	205.	15.	0.07
13.95	879.	17.0	12.4	3062.	1.20	12.2	164.	7.0	18.4	202.	15.	0.07
14.10	889.	16.9	10.7	2634.	1.10	6.0	70.	7.3	18.6	205.	12.	0.06
14.25	874.	15.5	10.9	2684.	1.07	4.0	48.	6.9	17.8	201.	12.	0.06
14.40	871.	16.3	11.3	2773.	1.23	13.9	171.	7.2	18.6	200.	13.	0.07
14.55	876.	16.6	10.0	2470.	1.19	11.8	128.	6.9	17.5	201.	11.	0.06
14.70	879.	16.1	10.9	2691.	1.08	5.1	61.	6.1	16.0	202.	11.	0.05
14.85	859.	14.4	12.0	2940.	1.11	6.9	89.	6.4	16.9	198.	13.	0.06
15.00	892.	15.5	10.7	2635.	1.42	25.2	293.	7.2	18.5	205.	13.	0.06
15.15	906.	14.3	9.7	2397.	1.46	27.6	292.	6.7	16.9	209.	11.	0.05
15.30	902.	13.4	11.0	2709.	1.03	2.0	24.	6.8	17.6	207.	12.	0.06
15.45	905.	13.2	11.9	2937.	1.21	12.7	154.	7.0	18.4	208.	14.	0.07
15.60	910.	13.3	12.6	3105.	1.42	25.7	353.	7.5	19.7	209.	16.	0.08
15.75	910.	12.8	12.1	2984.	1.31	18.6	245.	7.8	20.2	209.	16.	0.08
15.90	906.	13.1	11.9	2937.	1.22	13.3	172.	8.0	20.7	208.	16.	0.08
16.05	909.	14.5	12.1	2967.	1.42	25.2	330.	7.4	19.4	209.	15.	0.07
16.20	915.	16.7	12.1	2984.	1.43	26.3	346.	6.9	18.2	211.	14.	0.07
16.35	911.	16.4	11.1	2736.	1.08	4.7	57.	6.5	16.8	209.	12.	0.06
16.50	902.	15.9	12.0	2959.	1.39	23.9	313.	6.3	16.8	208.	13.	0.06

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	910.	16.8	13.1	3223.	1.32	19.3	275.	6.5	17.7	209.	15.	0.07
16.80	918.	16.6	10.9	2688.	1.10	6.1	72.	6.3	16.3	211.	11.	0.05
16.95	902.	16.1	11.2	2764.	1.17	10.5	129.	6.5	17.0	208.	12.	0.06
17.10	892.	17.0	12.4	3053.	1.23	14.1	191.	6.8	18.0	205.	14.	0.07
17.25	888.	17.4	11.3	2784.	1.13	7.6	93.	6.8	17.6	204.	13.	0.06
17.40	880.	16.2	10.3	2530.	1.03	1.8	20.	6.5	16.7	202.	11.	0.05
17.55	868.	15.6	11.4	2807.	1.13	7.6	94.	6.7	17.4	200.	13.	0.06
17.70	874.	16.9	10.5	2594.	1.25	15.4	176.	6.9	17.8	201.	12.	0.06
17.85	873.	16.9	10.2	2518.	1.05	2.9	32.	6.8	17.3	201.	11.	0.05
18.00	867.	15.5	11.5	2826.	1.17	10.1	126.	6.4	16.7	199.	12.	0.06
18.15	876.	16.0	10.3	2529.	1.37	22.6	253.	6.4	16.4	202.	11.	0.05
18.30	873.	15.8	9.7	2392.	1.51	31.2	329.	7.3	17.6	201.	11.	0.06
18.45	874.	14.6	11.2	2746.	1.08	4.8	58.	7.0	18.0	201.	13.	0.06
18.60	891.	14.0	11.2	2761.	1.32	19.4	237.	7.0	18.0	205.	13.	0.06
18.75	920.	14.3	11.1	2719.	1.49	29.5	355.	7.1	18.3	212.	13.	0.06
18.90	944.	14.9	10.6	2616.	1.43	26.0	320.	7.0	18.0	217.	12.	0.06
19.05	932.	13.2	10.4	2560.	1.08	5.0	57.	6.9	17.6	214.	12.	0.05
19.20	913.	14.2	11.4	2815.	1.32	19.2	239.	6.9	18.0	210.	13.	0.06
19.35	915.	15.8	11.9	2921.	1.54	32.8	423.	6.9	18.1	211.	14.	0.07
19.50	905.	15.8	11.0	2716.	1.14	8.4	101.	6.8	17.5	208.	12.	0.06
19.65	913.	16.4	11.4	2802.	1.36	21.9	271.	6.6	17.2	210.	13.	0.06
19.80	911.	17.9	11.7	2889.	1.45	27.5	351.	6.7	17.5	210.	14.	0.06
19.95	907.	18.5	10.4	2552.	1.23	13.9	157.	6.8	17.3	209.	11.	0.05
20.10	903.	17.5	10.3	2530.	1.20	12.1	135.	6.6	16.8	208.	11.	0.05
20.25	898.	17.1	11.1	2727.	1.43	26.0	313.	6.7	17.5	207.	13.	0.06
20.40	906.	18.3	10.6	2609.	1.21	12.5	144.	6.8	17.4	208.	12.	0.06
20.55	906.	17.5	9.1	2247.	1.01	0.8	8.	6.6	16.6	208.	9.	0.05
20.70	889.	16.4	9.7	2375.	1.00	0.	0.	6.5	16.3	205.	10.	0.05
20.85	879.	17.8	10.2	2510.	1.26	15.5	172.	6.5	16.7	202.	11.	0.05
21.00	872.	17.8	8.6	2103.	1.09	5.7	53.	7.0	17.3	201.	9.	0.05
21.15	863.	16.8	9.7	2386.	1.15	9.0	95.	6.5	16.4	199.	10.	0.05
21.30	881.	16.8	9.6	2360.	1.52	31.5	328.	6.5	16.4	203.	10.	0.05
21.45	892.	17.1	9.0	2209.	1.31	18.6	181.	6.7	16.7	205.	10.	0.05
21.60	897.	16.0	8.6	2116.	1.11	6.7	63.	6.5	16.1	206.	9.	0.04
21.75	880.	14.9	8.9	2186.	1.17	10.5	131.	6.4	15.9	202.	9.	0.04
21.90	862.	15.5	9.2	2266.	1.51	30.7	307.	6.6	16.5	203.	10.	0.05
22.05	931.	15.9	8.9	2187.	1.51	31.0	299.	6.9	17.2	214.	10.	0.05
22.20	946.	13.7	8.7	2148.	1.07	4.4	42.	6.9	17.1	218.	9.	0.04
22.35	928.	13.9	9.7	2389.	1.48	28.9	305.	7.0	17.7	213.	11.	0.05

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	920.	15.2	10.0	2448.	1.66	39.7	430.	7.1	17.9	212.	12.	0.06
22.65	921.	15.8	8.0	1973.	1.20	12.2	107.	6.9	16.8	212.	9.	0.04
22.80	927.	16.1	7.8	1917.	1.10	6.0	51.	6.9	16.8	213.	8.	0.04
22.95	912.	16.4	8.9	2188.	1.35	21.4	207.	6.7	16.6	210.	9.	0.04
23.10	913.	18.7	9.5	2340.	1.39	23.6	244.	6.5	16.5	210.	10.	0.05
23.25	917.	18.4	6.8	1677.	1.11	7.0	51.	6.3	15.2	211.	7.	0.03
23.40	902.	18.2	7.1	1758.	1.36	21.7	168.	6.2	15.1	208.	7.	0.03
23.55	897.	18.4	8.7	2138.	1.33	19.8	187.	6.2	15.5	206.	9.	0.04
23.70	918.	18.6	7.5	1845.	1.02	1.0	8.	6.2	15.1	211.	7.	0.03
23.85	879.	17.0	7.2	1782.	1.12	7.2	57.	6.2	15.2	202.	7.	0.03
24.00	889.	17.1	9.0	2218.	1.61	36.9	361.	6.5	16.2	205.	9.	0.05
24.15	884.	18.5	8.2	2028.	1.29	17.7	159.	6.5	16.0	203.	8.	0.04
24.30	885.	18.8	6.2	1522.	1.02	1.0	6.	6.7	16.0	203.	6.	0.03
24.45	886.	21.3	5.6	1375.	1.12	7.6	46.	6.3	15.1	204.	5.	0.03
24.60	892.	18.1	4.9	1211.	1.46	27.7	148.	6.4	15.0	205.	5.	0.02
24.75	906.	19.2	5.4	1334.	1.57	34.7	205.	6.6	15.6	208.	5.	0.03
24.90	916.	20.1	6.9	1707.	1.14	8.4	63.	6.6	15.9	211.	7.	0.03
25.05	891.	15.2	7.3	1800.	1.31	18.5	147.	6.4	15.7	205.	7.	0.04
25.20	922.	14.3	6.5	1590.	1.91	55.2	388.	6.6	16.0	212.	7.	0.03
25.35	940.	14.8	7.1	1742.	1.11	6.7	52.	6.6	16.1	216.	7.	0.03
25.50	959.	14.7	7.0	1717.	1.27	16.6	126.	6.6	15.9	221.	7.	0.03
25.65	965.	13.3	6.0	1478.	1.59	35.7	233.	6.3	15.1	222.	6.	0.03
25.80	941.	14.0	6.8	1682.	1.35	21.2	157.	6.3	15.3	217.	7.	0.03
25.95	925.	13.8	7.2	1780.	1.14	8.7	68.	6.3	15.3	213.	7.	0.03
26.10	916.	15.5	6.2	1523.	1.18	11.2	75.	6.0	14.5	211.	6.	0.03
26.25	909.	15.8	5.8	1439.	1.34	20.9	132.	6.3	15.0	209.	6.	0.03
26.40	909.	16.7	7.9	1954.	1.48	29.2	252.	6.4	15.7	209.	8.	0.04
26.55	914.	18.1	6.9	1704.	1.07	4.4	33.	6.2	15.1	210.	7.	0.03
26.70	907.	18.1	6.4	1570.	1.21	12.9	90.	6.2	15.0	209.	6.	0.03
26.85	901.	17.3	8.6	2111.	1.58	34.9	325.	6.8	16.7	207.	9.	0.04
27.00	906.	17.5	9.6	2358.	1.28	16.9	176.	6.2	15.7	208.	10.	0.05
27.15	904.	18.5	6.5	1609.	1.14	8.8	62.	6.2	14.9	208.	6.	0.03
27.30	901.	17.2	7.3	1790.	1.46	27.7	219.	6.4	15.7	207.	7.	0.04
27.45	893.	17.8	8.4	2074.	1.47	28.4	260.	6.8	16.8	205.	9.	0.04
27.60	890.	19.5	7.8	1924.	1.25	15.2	129.	6.9	16.8	205.	8.	0.04
27.75	876.	18.1	6.5	1608.	1.32	19.6	139.	6.5	15.7	202.	6.	0.03
27.90	874.	17.9	7.0	1728.	1.48	29.0	221.	6.5	15.9	201.	7.	0.04
28.05	865.	18.5	7.6	1869.	1.11	6.8	56.	6.6	16.2	204.	8.	0.04
28.20	858.	18.2	7.7	1888.	1.21	12.7	105.	6.4	15.7	197.	8.	0.04

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	846.	15.0	7.0	1712.	1.37	22.5	170.	6.5	15.8	195.	7.	0.04
28.50	873.	15.9	8.0	1977.	1.17	10.5	92.	6.9	17.0	201.	9.	0.04
28.65	897.	15.0	8.2	2005.	1.13	7.7	69.	6.9	17.0	206.	9.	0.04
28.80	928.	12.6	8.0	1966.	1.40	24.2	210.	7.1	17.3	214.	9.	0.04
28.95	886.	12.6	7.7	1883.	1.78	47.3	394.	6.9	16.9	204.	8.	0.04
29.10	956.	13.5	8.5	2099.	1.14	8.2	76.	6.2	15.5	220.	8.	0.04
29.25	941.	13.1	6.0	1469.	1.41	25.1	163.	6.6	15.7	216.	6.	0.03
29.40	915.	13.5	5.7	1641.	1.68	41.5	300.	6.9	16.5	210.	7.	0.03
29.55	916.	14.7	8.2	2026.	1.59	35.8	320.	6.8	16.9	211.	9.	0.04
29.70	929.	16.7	9.4	2304.	1.15	9.0	92.	6.8	17.1	214.	10.	0.05
29.85	916.	17.4	6.5	1608.	1.52	31.4	223.	6.6	15.9	211.	7.	0.03
30.00	913.	15.9	7.2	1779.	1.57	34.5	271.	7.1	17.2	210.	8.	0.04
30.15	925.	16.8	10.5	2570.	1.30	18.4	209.	7.0	17.8	213.	12.	0.06
30.30	912.	17.4	7.3	1786.	1.03	2.0	15.	6.5	15.9	210.	7.	0.03
30.45	896.	16.2	7.5	1835.	1.37	22.6	183.	6.8	16.6	206.	8.	0.04
30.60	911.	16.4	11.4	2808.	1.56	34.0	421.	6.9	17.0	209.	13.	0.06
30.75	909.	17.2	8.4	2066.	1.03	2.1	19.	6.5	16.3	209.	8.	0.04
30.90	906.	16.7	6.9	1702.	1.24	14.5	109.	6.7	16.2	208.	7.	0.03
31.05	898.	16.0	7.4	1815.	1.61	37.0	297.	6.2	15.1	207.	7.	0.03
31.20	886.	17.1	8.5	2099.	1.19	11.5	107.	6.9	16.9	204.	9.	0.04
31.35	879.	16.4	9.2	2250.	1.03	2.0	20.	6.4	16.0	202.	9.	0.05
31.50	871.	15.6	9.4	2322.	1.31	18.8	193.	6.0	15.1	200.	9.	0.05
31.65	880.	14.4	9.0	2205.	1.60	36.4	354.	5.8	14.7	203.	9.	0.04
31.80	877.	14.2	10.5	2580.	1.44	26.5	301.	6.9	17.7	212.	12.	0.06
31.95	888.	14.1	11.2	2762.	1.35	21.5	262.	6.9	17.9	214.	13.	0.06
32.10	904.	13.8	10.2	2502.	1.61	36.8	407.	6.9	17.2	208.	11.	0.06
32.25	922.	13.6	10.5	2586.	1.59	35.7	408.	7.4	18.7	212.	13.	0.06
32.40	933.	13.0	11.6	2856.	1.53	32.3	407.	7.3	18.8	214.	14.	0.07
32.55	912.	13.4	11.3	2777.	1.58	35.0	429.	7.4	19.0	213.	14.	0.07
32.70	892.	13.7	11.1	2725.	1.58	35.2	423.	7.6	19.5	215.	14.	0.07
32.85	887.	14.3	11.6	2861.	1.56	34.2	432.	7.8	20.2	214.	15.	0.08
33.00	907.	14.5	11.9	2931.	1.57	34.3	444.	7.9	20.4	209.	16.	0.08
33.15	906.	15.0	11.3	2770.	1.57	34.5	422.	7.1	18.4	208.	14.	0.07
33.30	896.	15.5	11.6	2849.	1.53	32.0	402.	6.6	17.2	206.	13.	0.06
33.45	896.	15.8	11.5	2839.	1.50	30.5	382.	6.8	17.7	206.	13.	0.07
33.60	898.	15.9	11.2	2755.	1.54	32.5	395.	7.0	18.1	207.	13.	0.06
33.75	897.	16.0	10.9	2669.	1.36	21.9	258.	7.3	18.6	206.	13.	0.06
33.90	881.	15.9	11.2	2747.	1.45	27.3	331.	7.1	18.4	203.	13.	0.07
34.05	879.	15.5	11.6	2859.	1.44	26.5	335.	7.3	18.9	202.	14.	0.07

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	880.	15.7	11.5	2817.	1.35	21.3	265.	7.3	18.9	202.	14.	0.07
34.35	867.	15.9	10.6	2607.	1.27	16.2	187.	7.1	18.1	199.	12.	0.06
34.50	870.	16.1	11.5	2831.	1.45	27.3	341.	6.5	17.0	200.	13.	0.06
34.65	870.	15.8	11.5	2820.	1.44	26.7	332.	6.3	16.5	200.	12.	0.06
34.8[illegible]	878.	15.5	11.4	2811.	1.46	27.9	347.	6.7	17.4	202.	13.	0.06
34.95	882.	15.5	11.6	2856.	1.46	28.1	354.	6.6	17.4	203.	13.	0.07
35.10	883.	14.2	11.7	2875.	1.44	26.9	341.	6.9	18.1	203.	14.	0.07
35.25	888.	13.7	11.6	2852.	1.50	30.0	378.	7.8	20.1	204.	15.	0.07
35.40	898.	13.4	11.7	2870.	1.49	29.8	377.	8.3	21.2	206.	16.	0.08
35.55	909.	13.[illegible]	11.8	2907.	1.38	22.8	293.	8.2	21.2	209.	16.	0.08
35.70	925.	12.2	12.1	2975.	1.37	22.1	291.	8.0	20.7	213.	16.	0.08
35.85	906.	12.5	11.2	2742.	1.55	33.3	403.	7.8	20.0	208.	15.	0.07
36.0[illegible]	917.	13.1	12.4	3061.	1.36	21.8	294.	8.1	21.1	211.	17.	0.08
36.15	912.	13.1	11.9	2933.	1.13	8.1	105.	8.2	21.2	210.	16.	0.08
36.30	900.	13.7	11.1	2737.	1.40	24.2	292.	7.7	19.7	207.	14.	0.07
36.45	910.	14.7	11.4	2810.	1.38	22.8	283.	7.6	19.5	209.	14.	0.07
36.60	929.	15.7	12.1	2972.	1.12	7.5	98.	7.2	19.[illegible]	214.	14.	0.07
36.75	917.	15.1	10.5	2585.	1.36	21.9	250.	7.2	18.4	211.	12.	0.06
36.9[illegible]	908.	14.6	10.7	2630.	1.40	24.5	285.	7.2	18.4	209.	13.	0.06
37.05	908.	15.1	11.1	2733.	1.35	21.4	259.	7.2	18.6	209.	13.	0.06
37.20	897.	15.8	11.6	2864.	1.41	24.6	311.	7.6	19.6	206.	15.	0.07
37.35	890.	15.5	11.8	2893.	1.35	21.2	270.	7.3	19.1	205.	15.	0.07
37.50	883.	15.5	11.2	2762.	1.24	14.8	181.	7.6	19.5	203.	14.	0.07
37.65	885.	15.6	11.5	2841.	1.40	24.2	304.	7.6	19.6	203.	15.	0.07
37.8[illegible]	883.	15.2	11.6	2861.	1.27	16.3	205.	7.6	19.6	203.	15.	0.07
37.95	887.	14.5	11.3	2778.	1.27	16.4	202.	7.7	19.8	204.	14.	0.07
38.1[illegible]	890.	15.5	11.7	2867.	1.36	21.8	276.	7.5	19.3	205.	15.	0.07
38.25	887.	14.9	12.0	2953.	1.41	25.1	327.	7.1	18.6	204.	15.	0.07
38.4[illegible]	873.	14.3	12.0	2953.	1.40	24.4	319.	7.1	18.5	201.	15.	0.07
38.55	885.	13.5	11.6	2857.	1.45	27.1	342.	7.5	19.4	203.	15.	0.07
38.7[illegible]	895.	12.9	12.4	3041.	1.40	24.1	323.	7.5	19.7	206.	16.	0.08
38.85	918.	12.9	12.8	3158.	1.29	17.4	243.	8.0	20.9	211.	17.	0.08
39.00	916.	12.5	11.9	2917.	1.47	28.4	366.	8.3	21.4	211.	17.	0.08
39.15	908.	12.5	11.5	2831.	1.47	28.3	353.	8.1	20.7	209.	15.	0.07
39.3[illegible]	901.	13.1	12.5	3070.	1.39	23.5	318.	8.3	21.6	207.	17.	0.08
39.45	893.	13.9	12.5	3073.	1.44	26.6	362.	7.9	20.6	205.	17.	0.09
39.6[illegible]	894.	15.7	12.6	3093.	1.47	28.2	385.	8.0	20.8	206.	17.	0.08
39.75	899.	16.2	13.1	3216.	1.41	25.0	355.	7.5	19.9	207.	17.	0.08
39.9[illegible]	895.	16.6	12.8	3148.	1.23	13.9	193.	7.2	19.1	206.	16.	0.08

RUN NUMBER- 5
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	902.	16.3	12.1	2963.	1.44	26.4	346.	7.4	19.3	207.	15.	0.07
40.20	924.	18.3	13.2	3255.	1.27	16.6	239.	7.3	19.5	213.	17.	0.08
40.35	918.	18.0	11.6	2840.	1.09	5.7	71.	6.7	17.5	211.	13.	0.06
40.50	904.	16.3	12.0	2948.	1.34	20.6	268.	7.1	18.7	208.	14.	0.07
40.65	906.	15.7	12.5	3063.	1.18	11.1	150.	7.6	19.8	208.	16.	0.08
40.80	906.	17.3	11.7	2868.	1.14	8.7	111.	7.2	18.8	208.	14.	0.07
40.95	896.	17.2	11.6	2860.	1.13	7.6	96.	7.1	18.5	206.	14.	0.07
41.10	873.	16.0	12.3	3026.	1.11	6.7	90.	7.4	19.3	201.	15.	0.07
41.25	871.	17.7	11.4	2816.	1.27	16.5	205.	7.7	19.7	200.	14.	0.07
41.40	891.	16.7	11.5	2822.	1.28	17.0	211.	8.1	20.8	205.	15.	0.07
41.55	887.	15.4	12.5	3083.	1.00	0.	0.	6.7	17.9	204.	14.	0.07

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 25 78
RUN NUMBER- 6
SEGMENT NUMBER- 1
WATER DEPTH- 10 TO 12 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.30
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1134.	18.8	11.1	2737.	1.05	2.8	33.	7.2	18.5	261.	13.	0.05
0.15	1137.	18.9	12.6	3094.	1.04	2.2	30.	7.2	19.0	262.	15.	0.06
0.30	1135.	17.8	12.6	3098.	1.03	1.7	23.	6.9	18.4	261.	14.	0.06
0.45	1160.	16.7	12.7	3120.	1.03	1.7	24.	6.9	18.5	267.	15.	0.05
0.60	1176.	16.2	12.8	3141.	1.02	1.3	18.	7.2	19.2	270.	15.	0.06
0.75	1177.	14.5	12.7	3118.	1.01	0.6	8.	7.0	18.7	271.	15.	0.05
0.90	1179.	15.0	13.4	3305.	1.00	0.	0.	7.0	18.9	271.	16.	0.06
1.05	1161.	17.6	14.9	3677.	1.00	0.	0.	7.0	19.6	267.	18.	0.07
1.20	1163.	18.8	14.9	3657.	1.00	0.	0.	7.0	19.6	268.	18.	0.07
1.35	1164.	19.3	16.2	3992.	1.00	0.	0.	7.0	20.3	268.	20.	0.08
1.50	1164.	19.0	15.8	3890.	1.00	0.	0.	6.7	19.4	268.	19.	0.07
1.65	1161.	19.3	14.2	3502.	1.05	2.8	43.	6.8	18.7	267.	17.	0.06
1.80	1148.	18.9	13.9	3419.	1.01	0.6	10.	6.8	18.6	264.	16.	0.06
1.95	1130.	18.7	14.0	3434.	1.00	0.	0.	6.8	18.7	260.	16.	0.06
2.10	1122.	18.0	12.7	3128.	1.01	0.4	5.	6.9	18.5	258.	15.	0.06
2.25	1130.	17.8	11.7	2875.	1.03	1.7	21.	7.0	18.3	260.	13.	0.05
2.40	1116.	16.1	12.6	3107.	1.05	2.8	38.	6.8	18.2	257.	14.	0.06
2.55	1125.	15.4	12.1	2986.	1.09	5.3	69.	6.9	18.3	259.	14.	0.05
2.70	1162.	15.1	12.0	2945.	1.03	1.6	21.	7.1	18.6	267.	14.	0.05
2.85	1190.	14.9	12.1	2964.	1.00	0.	0.	7.0	18.4	274.	14.	0.05
3.00	1177.	15.9	13.4	3299.	1.00	0.	0.	6.9	18.8	271.	16.	0.06
3.15	1163.	18.2	14.0	3431.	1.00	0.	0.	6.9	18.9	267.	16.	0.06
3.30	1157.	19.4	13.6	3351.	1.00	0.	0.	6.8	18.6	266.	16.	0.06
3.45	1172.	18.7	13.3	3275.	1.00	0.	0.	6.8	18.4	270.	15.	0.06
3.60	1152.	19.1	13.9	3428.	1.00	0.	0.	6.7	18.5	265.	16.	0.06
3.75	1143.	19.7	12.5	3067.	1.00	0.	0.	6.7	17.8	263.	14.	0.05
3.90	1144.	19.8	11.8	2896.	1.00	0.	0.	6.7	17.7	263.	13.	0.05
4.05	1131.	19.3	11.1	2740.	1.00	0.	0.	6.8	17.7	260.	12.	0.05
4.20	1116.	17.8	10.4	2560.	1.00	0.	0.	6.9	17.6	257.	11.	0.04
4.35	1126.	17.8	9.4	2323.	1.00	0.	0.	7.0	17.5	259.	10.	0.04
4.50	1161.	16.7	9.4	2311.	1.01	0.4	4.	7.0	17.5	267.	10.	0.04
4.65	1183.	14.8	10.9	2686.	1.09	5.2	62.	7.0	17.9	272.	12.	0.05
4.80	1183.	14.9	11.8	2901.	1.08	5.0	64.	6.9	18.1	272.	13.	0.05

RUN NUMBER- 6
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1176.	17.1	10.1	2475.	1.01	0.3	4.	6.9	17.5	270.	11.	0.04
5.10	1190.	18.0	11.2	2758.	1.00	0.	0.	6.8	17.7	274.	12.	0.05
5.25	1165.	18.5	14.0	3441.	1.03	1.9	29.	6.8	18.8	268.	16.	0.06
5.40	1156.	19.1	14.0	3450.	1.07	4.2	61.	6.8	18.7	266.	16.	0.06
5.55	1150.	19.2	12.8	3140.	1.01	0.4	6.	6.8	18.1	264.	14.	0.05
5.70	1133.	18.6	10.7	2632.	1.00	0.	0.	6.7	17.3	261.	12.	0.04
5.85	1116.	18.5	10.7	2638.	1.09	5.6	66.	6.7	17.3	257.	12.	0.05
6.00	1110.	18.8	10.7	2644.	1.10	6.3	73.	6.7	17.2	255.	12.	0.05
6.15	1126.	19.2	10.3	2522.	1.04	2.6	29.	6.7	17.0	259.	11.	0.04
6.30	1131.	18.1	9.4	2301.	1.15	9.1	92.	6.7	16.7	260.	10.	0.04
6.45	1158.	16.8	9.6	2358.	1.20	12.4	129.	6.7	16.9	266.	10.	0.04
6.60	1203.	16.7	8.2	2011.	1.01	0.6	5.	6.8	16.7	277.	9.	0.03
6.75	1218.	16.1	8.5	2086.	1.02	1.2	11.	6.9	17.0	280.	9.	0.03
6.90	1188.	13.9	9.1	2228.	1.02	1.4	14.	6.9	17.3	273.	10.	0.04
7.05	1172.	16.3	10.7	2635.	1.02	1.5	17.	7.0	18.0	269.	12.	0.04
7.20	1178.	18.4	9.9	2432.	1.00	0.	0.	6.9	17.5	271.	11.	0.04
7.35	1182.	18.4	10.0	2467.	1.00	0.	0.	6.8	17.3	272.	11.	0.04
7.50	1151.	18.5	11.7	2875.	1.29	17.4	220.	6.7	17.6	265.	13.	0.05
7.65	1144.	20.0	13.1	3222.	1.24	14.3	203.	6.5	17.8	263.	15.	0.06
7.80	1159.	19.0	12.3	3018.	1.11	6.5	86.	6.5	17.3	267.	13.	0.05
7.95	1128.	18.3	9.4	2322.	1.02	1.2	12.	6.5	16.6	259.	10.	0.04
8.10	1106.	18.1	10.1	2475.	1.13	8.1	88.	6.7	17.0	254.	11.	0.04
8.25	1129.	18.6	10.0	2469.	1.12	7.0	76.	6.8	17.2	260.	11.	0.04
8.40	1139.	18.8	9.7	2379.	1.01	0.8	9.	6.9	17.3	262.	10.	0.04
8.55	1146.	15.6	9.5	2336.	1.23	13.9	143.	6.9	17.3	264.	13.	0.04
8.70	1176.	14.5	9.2	2270.	1.14	8.4	84.	6.9	17.2	270.	10.	0.04
8.85	1194.	15.5	9.5	2331.	1.04	2.5	26.	6.9	17.3	275.	10.	0.04
9.00	1175.	16.2	12.0	2952.	1.00	0.	0.	6.9	18.2	270.	14.	0.05
9.15	1163.	18.8	13.4	3291.	1.23	13.9	201.	6.9	18.7	267.	16.	0.06
9.30	1157.	20.0	13.7	3362.	1.37	22.3	330.	6.9	18.8	266.	17.	0.06
9.45	1156.	19.7	12.8	3155.	1.00	0.	0.	6.9	18.4	266.	15.	0.06
9.60	1154.	18.3	11.9	2931.	1.00	0.	0.	6.8	18.0	265.	13.	0.05
9.75	1112.	18.5	14.0	3451.	1.26	16.0	243.	6.8	18.8	256.	17.	0.07
9.90	1119.	19.0	13.2	3248.	1.16	9.5	136.	6.8	18.4	257.	15.	0.06
10.05	1121.	19.3	12.4	3049.	1.03	2.0	27.	6.8	18.0	258.	14.	0.05
10.20	1096.	16.3	12.8	3154.	1.22	13.0	182.	6.7	18.1	252.	15.	0.06
10.35	1100.	16.3	13.3	3259.	1.31	18.8	271.	6.7	18.1	253.	16.	0.06
10.50	1140.	16.9	11.3	2770.	1.27	16.2	198.	6.6	17.2	262.	12.	0.05
10.65	1174.	15.2	9.7	2389.	1.22	13.6	144.	6.6	16.6	270.	10.	0.04

RUN NUMBER- 6
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1169.	13.6	10.9	2692.	1.18	11.0	131.	6.5	16.9	269.	12.	0.04
10.95	1164.	14.7	11.0	2698.	1.15	9.4	112.	6.5	16.9	268.	12.	0.04
11.10	1161.	16.9	9.4	2309.	1.02	1.2	12.	6.5	16.5	267.	10.	0.04
11.25	1155.	18.1	9.4	2319.	1.00	0.	0.	6.6	16.5	266.	10.	0.04
11.40	1148.	19.3	11.5	2825.	1.33	19.7	246.	6.6	17.2	264.	13.	0.05
11.55	1138.	20.3	12.9	3181.	1.42	25.5	358.	6.6	17.7	262.	15.	0.06
11.70	1153.	20.4	10.9	2687.	1.32	19.5	231.	6.5	16.9	265.	12.	0.04
11.85	1115.	19.3	9.8	2418.	1.22	13.4	143.	6.5	16.5	256.	10.	0.04
12.00	1105.	19.7	10.5	2577.	1.12	7.4	84.	6.5	16.7	254.	11.	0.04
12.15	1144.	20.0	9.3	2286.	1.02	1.3	13.	6.5	16.2	263.	9.	0.04
12.30	1135.	18.4	8.9	2197.	1.14	8.5	83.	6.4	16.1	261.	9.	0.03
12.45	1151.	15.7	9.9	2430.	1.32	19.4	238.	6.4	16.3	265.	10.	0.04
12.60	1189.	15.6	9.2	2262.	1.03	1.8	18.	6.4	16.1	273.	9.	0.03
12.75	1215.	15.9	7.7	1885.	1.01	0.7	6.	6.4	15.7	279.	7.	0.03
12.90	1203.	13.6	10.1	2485.	1.00	0.	0.	6.4	16.4	277.	10.	0.04
13.05	1175.	16.4	12.2	3005.	1.05	3.2	40.	6.4	17.2	270.	13.	0.05
13.20	1167.	20.2	10.8	2650.	1.06	3.8	44.	6.5	16.7	268.	11.	0.04
13.35	1188.	19.9	10.0	2462.	1.00	0.	0.	6.5	16.5	273.	10.	0.04
13.50	1169.	19.6	12.3	3028.	1.00	0.	0.	6.5	17.3	269.	13.	0.05
13.65	1150.	19.7	12.4	3038.	1.20	12.3	165.	6.5	17.4	264.	14.	0.05
13.80	1142.	20.3	11.7	2884.	1.06	3.4	43.	6.5	17.2	263.	13.	0.05
13.95	1132.	19.6	10.8	2666.	1.00	0.	0.	6.5	17.0	260.	11.	0.04
14.10	1128.	19.1	10.2	2497.	1.04	2.4	26.	6.6	16.9	259.	11.	0.04
14.25	1150.	18.9	10.0	2459.	1.09	5.7	61.	6.7	17.1	264.	11.	0.04
14.40	1176.	18.0	9.0	2217.	1.16	9.5	93.	6.8	16.9	270.	10.	0.04
14.55	1166.	15.6	10.0	2461.	1.22	13.3	145.	6.8	17.3	268.	11.	0.04
14.70	1199.	14.7	10.0	2461.	1.19	11.5	125.	6.9	17.4	276.	11.	0.04
14.85	1215.	14.9	10.0	2462.	1.00	0.	0.	6.9	17.6	279.	11.	0.04
15.00	1211.	16.4	10.1	2482.	1.00	0.	0.	6.9	17.5	279.	11.	0.04
15.15	1171.	18.8	10.8	2645.	1.00	0.	0.	6.8	17.5	269.	12.	0.04
15.30	1152.	20.2	12.2	2993.	1.00	0.	0.	6.7	17.8	265.	13.	0.05
15.45	1156.	20.3	11.9	2935.	1.00	0.	0.	6.6	17.5	266.	13.	0.05
15.60	1161.	18.2	11.3	2774.	1.00	0.	0.	6.5	17.0	267.	12.	0.04
15.75	1138.	18.6	11.1	2733.	1.01	0.9	10.	6.4	16.8	262.	12.	0.04
15.90	1123.	19.3	11.2	2758.	1.01	0.5	7.	6.3	16.6	258.	12.	0.04
16.05	1104.	18.8	11.8	2904.	1.00	0.	0.	6.2	16.6	254.	12.	0.05
16.20	1105.	17.6	9.6	2351.	1.02	1.3	13.	6.2	15.7	254.	9.	0.04
16.35	1117.	16.2	9.5	2332.	1.09	5.5	57.	6.3	15.9	257.	9.	0.04
16.50	1134.	15.6	8.4	2063.	1.02	1.3	12.	6.3	15.7	261.	8.	0.03

RUN NUMBER- 6
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1157.	14.9	7.9	1954.	1.00	0.	0.	6.4	15.7	266.	8.	0.03
16.80	1180.	14.0	8.9	2182.	1.00	0.	0.	6.5	16.1	271.	9.	0.03
16.95	1166.	15.7	11.1	2736.	1.02	1.3	16.	6.5	17.0	268.	12.	0.04
17.10	1184.	18.4	9.8	2418.	1.03	1.6	17.	6.6	16.7	272.	10.	0.04
17.25	1182.	19.7	10.7	2640.	1.01	0.6	7.	6.5	16.9	272.	11.	0.04
17.40	1170.	20.0	12.4	3057.	1.00	0.	0.	6.5	17.4	269.	13.	0.05
17.55	1160.	20.1	13.1	3210.	1.00	0.	0.	6.4	17.5	267.	14.	0.05
17.70	1154.	19.8	10.7	2629.	1.00	0.	0.	6.4	16.6	265.	11.	0.04
17.85	1135.	19.4	10.5	2591.	1.01	0.9	10.	6.4	16.4	261.	11.	0.04
18.00	1127.	19.4	9.8	2414.	1.06	3.8	41.	6.4	15.2	259.	10.	0.04
18.15	1140.	20.1	8.7	2133.	1.03	2.0	19.	6.4	15.9	262.	9.	0.03
18.30	1165.	17.8	8.2	2009.	1.07	3.9	35.	6.4	15.8	268.	8.	0.03
18.45	1151.	15.4	10.4	2568.	1.18	10.7	121.	6.4	16.5	265.	11.	0.04
18.60	1161.	14.7	10.6	2605.	1.11	6.6	76.	6.4	16.6	267.	11.	0.04
18.75	1194.	15.3	9.2	2257.	1.01	0.4	4.	6.4	16.2	275.	9.	0.03
18.90	1197.	14.7	9.1	2229.	1.00	0.	0.	6.4	16.1	275.	9.	0.03
19.05	1167.	15.4	11.7	2866.	1.00	0.	0.	6.3	16.7	269.	12.	0.05
19.20	1164.	17.8	12.6	3097.	1.01	0.5	7.	6.2	16.8	268.	13.	0.05
19.35	1175.	20.5	11.1	2739.	1.04	2.6	31.	6.1	16.1	270.	11.	0.04
19.50	1177.	19.4	12.5	3062.	1.01	0.7	9.	6.0	16.3	271.	13.	0.05
19.65	1151.	19.4	13.7	3361.	1.00	0.	0.	6.0	16.7	265.	14.	0.05
19.80	1135.	20.3	11.5	2825.	1.00	0.	0.	6.0	16.0	261.	11.	0.04
19.95	1136.	20.2	11.1	2741.	1.00	0.	0.	6.1	16.0	261.	11.	0.04
20.10	1132.	19.5	10.7	2637.	1.05	3.1	36.	6.2	16.0	260.	11.	0.04
20.25	1129.	18.9	10.1	2481.	1.15	8.9	98.	6.2	15.9	260.	10.	0.04
20.40	1167.	18.1	9.5	2347.	1.14	8.7	90.	6.3	15.9	268.	10.	0.04
20.55	1191.	16.0	9.7	2382.	1.14	8.5	90.	6.4	16.2	274.	10.	0.04
20.70	1195.	14.8	11.6	2864.	1.14	8.3	105.	6.7	17.5	275.	13.	0.05
20.85	1198.	14.6	11.3	2786.	1.05	2.9	35.	6.9	17.9	275.	13.	0.05
21.00	1187.	16.5	10.6	2601.	1.00	0.	0.	6.6	16.9	273.	11.	0.04
21.15	1181.	17.6	11.8	2894.	1.00	0.	0.	6.0	16.9	272.	12.	0.04
21.30	1157.	19.4	14.4	3540.	1.01	0.6	9.	5.9	16.9	265.	15.	0.06
21.45	1147.	20.6	12.7	3131.	1.02	1.0	13.	6.1	16.5	264.	13.	0.05
21.60	1152.	20.0	12.1	2972.	1.00	0.	0.	6.1	16.4	265.	12.	0.05
21.75	1143.	19.3	12.3	3014.	1.01	0.6	7.	6.1	16.4	263.	12.	0.05
21.90	1116.	19.0	10.5	2577.	1.02	1.3	15.	6.0	15.6	257.	10.	0.04
22.05	1117.	19.2	10.8	2653.	1.02	1.2	14.	6.0	15.6	257.	10.	0.04
22.20	1127.	19.0	11.2	2753.	1.01	0.5	6.	5.9	15.6	259.	11.	0.04
22.35	1119.	17.7	10.9	2690.	1.01	0.5	6.	6.0	15.7	257.	11.	0.04

RUN NUMBER- 6
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1134.	15.8	10.2	2518.	1.02	1.4	15.	6.1	15.7	261.	10.	0.04

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 29 78
RUN NUMBER- 1
SEGMENT NUMBER- 1
WATER DEPTH- 8 TO 10 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	594.	ND	6.0	1483.	1.39	23.4	153.	ND	NC	137.	NC	NC
0.15	576.	ND	5.1	1491.	1.31	18.6	123.	ND	NC	132.	NC	NC
0.30	667.	ND	6.2	1527.	1.53	31.9	215.	ND	NC	153.	NC	NC
0.45	609.	ND	5.5	1587.	1.55	33.2	233.	ND	NC	140.	NC	NC
0.60	565.	ND	5.6	1623.	1.41	24.7	177.	ND	NC	130.	NC	NC
0.75	606.	ND	5.5	1611.	1.27	16.3	116.	ND	NC	139.	NC	NC
0.90	639.	ND	5.4	1582.	1.45	27.1	189.	ND	NC	147.	NC	NC
1.05	597.	ND	6.3	1557.	1.50	30.3	208.	ND	NC	137.	NC	NC
1.20	611.	ND	5.2	1524.	1.28	17.0	114.	ND	NC	140.	NC	NC
1.35	631.	ND	5.5	1589.	1.23	14.1	99.	ND	NC	145.	NC	NC
1.50	611.	ND	5.7	1654.	1.39	23.4	171.	ND	NC	141.	NC	NC
1.65	624.	ND	5.2	1513.	1.26	15.5	104.	ND	NC	144.	NC	NC
1.80	676.	ND	5.6	1389.	1.26	15.7	96.	ND	NC	155.	NC	NC
1.95	621.	ND	5.5	1358.	1.28	16.9	101.	ND	NC	143.	NC	NC
2.10	575.	ND	8.4	2069.	1.28	16.7	153.	ND	NC	132.	NC	NC
2.25	570.	ND	6.1	1500.	1.04	2.5	16.	ND	NC	131.	NC	NC
2.40	631.	ND	4.4	1094.	1.05	3.0	14.	ND	NC	145.	NC	NC
2.55	634.	ND	4.8	1177.	1.11	6.8	35.	ND	NC	146.	NC	NC
2.70	609.	ND	5.0	1219.	1.02	1.5	8.	ND	NC	140.	NC	NC
2.85	615.	ND	5.8	1418.	1.28	16.8	105.	ND	NC	141.	NC	NC
3.00	668.	ND	7.0	1724.	1.22	13.1	99.	ND	NC	154.	NC	NC
3.15	627.	ND	7.7	1904.	1.17	10.2	86.	ND	NC	144.	NC	NC
3.30	619.	ND	8.3	2042.	1.13	7.9	71.	ND	NC	142.	NC	NC
3.45	659.	ND	8.3	2032.	1.08	5.1	46.	ND	NC	152.	NC	NC
3.60	631.	ND	9.3	2281.	1.10	6.0	60.	ND	NC	145.	NC	NC
3.75	606.	ND	9.1	2226.	1.08	4.9	48.	ND	NC	139.	NC	NC
3.90	623.	ND	8.8	2165.	1.02	1.0	9.	ND	NC	143.	NC	NC
4.05	646.	ND	9.0	2203.	1.01	0.3	3.	ND	NC	149.	NC	NC
4.20	620.	ND	10.0	2447.	1.06	3.9	42.	ND	NC	143.	NC	NC
4.35	625.	ND	9.4	2306.	1.03	2.0	20.	ND	NC	144.	NC	NC
4.50	641.	ND	8.7	2136.	1.06	3.9	37.	ND	NC	147.	NC	NC
4.65	619.	ND	9.2	2257.	1.08	4.9	48.	ND	NC	142.	NC	NC
4.80	611.	ND	9.8	2406.	1.09	5.6	59.	ND	NC	141.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	621.	ND	9.1	2244.	1.09	5.6	55.	ND	NC	143.	NC	NC
5.10	628.	ND	9.0	2203.	1.06	3.6	35.	ND	NC	146.	NC	NC
5.25	629.	ND	9.3	2283.	1.07	4.0	41.	ND	NC	143.	NC	NC
5.40	609.	ND	9.4	2320.	1.08	4.7	48.	ND	NC	140.	NC	NC
5.55	631.	ND	9.0	2218.	1.07	4.2	41.	ND	NC	145.	NC	NC
5.70	655.	ND	9.1	2226.	1.07	4.1	41.	ND	NC	151.	NC	NC
5.85	629.	ND	9.4	2305.	1.07	4.4	45.	ND	NC	145.	NC	NC
6.00	614.	ND	9.1	2234.	1.06	3.6	36.	ND	NC	141.	NC	NC
6.15	633.	ND	9.0	2202.	1.03	2.1	20.	ND	NC	146.	NC	NC
6.30	635.	ND	9.5	2340.	1.07	4.5	46.	ND	NC	146.	NC	NC
6.45	601.	ND	9.3	2283.	1.11	6.6	67.	ND	NC	138.	NC	NC
6.60	605.	ND	9.0	2219.	1.05	2.8	27.	ND	NC	139.	NC	NC
6.75	630.	ND	9.6	2356.	1.05	3.1	32.	ND	NC	145.	NC	NC
6.90	613.	ND	9.6	2365.	1.08	4.7	49.	ND	NC	141.	NC	NC
7.05	610.	ND	9.1	2245.	1.09	5.4	54.	ND	NC	140.	NC	NC
7.20	628.	ND	8.8	2166.	1.07	4.5	43.	ND	NC	144.	NC	NC
7.35	604.	ND	9.0	2215.	1.09	5.3	52.	ND	NC	139.	NC	NC
7.50	607.	ND	9.2	2264.	1.11	6.9	69.	ND	NC	140.	NC	NC
7.65	621.	ND	8.8	2179.	1.11	6.5	62.	ND	NC	143.	NC	NC
7.80	633.	ND	8.9	2167.	1.07	4.2	41.	ND	NC	146.	NC	NC
7.95	628.	ND	9.1	2228.	1.16	9.5	93.	ND	NC	144.	NC	NC
8.10	611.	ND	8.7	2134.	1.19	11.6	109.	ND	NC	141.	NC	NC
8.25	615.	ND	8.1	1981.	1.15	9.0	79.	ND	NC	141.	NC	NC
8.40	646.	ND	8.0	1970.	1.10	6.0	52.	ND	NC	149.	NC	NC
8.55	609.	ND	8.5	2083.	1.19	11.3	104.	ND	NC	140.	NC	NC
8.70	599.	ND	7.9	1939.	1.23	13.7	117.	ND	NC	138.	NC	NC
8.85	606.	ND	7.6	1878.	1.13	7.7	64.	ND	NC	139.	NC	NC
9.00	639.	ND	7.7	1905.	1.17	10.5	88.	ND	NC	147.	NC	NC
9.15	608.	ND	7.7	1884.	1.24	14.8	123.	ND	NC	140.	NC	NC
9.30	601.	ND	7.3	1795.	1.13	7.8	62.	ND	NC	138.	NC	NC
9.45	639.	ND	7.2	1771.	1.23	13.7	107.	ND	NC	147.	NC	NC
9.60	620.	ND	7.2	1761.	1.35	21.5	167.	ND	NC	142.	NC	NC
9.75	593.	ND	6.7	1649.	1.32	19.4	142.	ND	NC	136.	NC	NC
9.90	621.	ND	6.8	1681.	1.25	15.0	111.	ND	NC	143.	NC	NC
10.05	615.	ND	7.2	1761.	1.42	25.2	196.	ND	NC	141.	NC	NC
10.20	603.	ND	6.8	1673.	1.49	29.7	219.	ND	NC	139.	NC	NC
10.35	603.	ND	6.0	1477.	1.22	13.5	88.	ND	NC	139.	NC	NC
10.50	625.	ND	6.1	1495.	1.54	32.8	217.	ND	NC	144.	NC	NC
10.65	628.	ND	5.8	1664.	1.66	40.0	294.	ND	NC	144.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	588.	ND	6.4	1581.	1.42	25.7	180.	ND	NC	135.	NC	NC
10.95	595.	ND	6.4	1578.	1.32	19.6	137.	ND	NC	137.	NC	NC
11.10	662.	ND	6.6	1631.	1.54	32.7	235.	ND	NC	152.	NC	NC
11.25	559.	ND	6.2	1517.	1.53	32.3	216.	ND	NC	129.	NC	NC
11.40	556.	ND	5.9	1461.	1.36	21.6	139.	ND	NC	128.	NC	NC
11.55	598.	ND	6.3	1554.	1.53	32.4	222.	ND	NC	137.	NC	NC
11.70	624.	ND	6.2	1536.	1.73	44.4	301.	ND	NC	143.	NC	NC
11.85	577.	ND	5.7	1412.	1.51	31.0	193.	ND	NC	133.	NC	NC
12.00	589.	ND	5.8	1429.	1.47	28.2	178.	ND	NC	135.	NC	NC
12.15	612.	ND	6.2	1521.	1.57	34.8	234.	ND	NC	141.	NC	NC
12.30	585.	ND	5.6	1383.	1.49	24.2	148.	ND	NC	135.	NC	NC
12.45	566.	ND	4.8	1177.	1.37	22.4	117.	ND	NC	131.	NC	NC
12.60	640.	ND	4.1	1016.	1.31	18.6	83.	ND	NC	147.	NC	NC
12.75	606.	ND	1.4	346.	1.19	11.3	17.	ND	NC	139.	NC	NC
12.90	493.	ND	0.7	168.	1.01	0.4	0.	ND	NC	113.	NC	NC
13.05	451.	ND	0.7	194.	1.19	11.7	9.	ND	NC	104.	NC	NC
13.20	593.	ND	2.2	536.	1.88	53.2	126.	ND	NC	136.	NC	NC
13.35	626.	ND	4.3	1069.	1.39	23.9	113.	ND	NC	144.	NC	NC
13.50	572.	ND	5.5	1348.	1.36	21.9	130.	ND	NC	132.	NC	NC
13.65	563.	ND	5.5	1356.	1.38	23.1	138.	ND	NC	130.	NC	NC
13.80	666.	ND	6.1	1510.	1.46	24.3	162.	ND	NC	153.	NC	NC
13.95	605.	ND	8.1	1986.	1.28	17.2	150.	ND	NC	139.	NC	NC
14.10	598.	ND	8.1	1986.	1.16	9.9	87.	ND	NC	138.	NC	NC
14.25	627.	ND	8.4	2054.	1.08	4.8	43.	ND	NC	144.	NC	NC
14.40	622.	ND	9.2	2270.	1.11	6.5	65.	ND	NC	143.	NC	NC
14.55	606.	ND	9.2	2262.	1.12	7.4	73.	ND	NC	139.	NC	NC
14.70	606.	ND	8.9	2191.	1.03	1.7	17.	ND	NC	139.	NC	NC
14.85	625.	ND	9.2	2252.	1.05	2.9	29.	ND	NC	144.	NC	NC
15.00	598.	ND	9.5	2339.	1.08	4.6	48.	ND	NC	138.	NC	NC
15.15	603.	ND	9.5	2339.	1.09	5.3	54.	ND	NC	139.	NC	NC
15.30	612.	ND	9.2	2264.	1.06	3.9	39.	ND	NC	141.	NC	NC
15.45	602.	ND	9.6	2353.	1.06	3.4	35.	ND	NC	139.	NC	NC
15.60	603.	ND	9.6	2365.	1.06	3.5	37.	ND	NC	139.	NC	NC
15.75	608.	ND	9.2	2274.	1.07	4.4	45.	ND	NC	140.	NC	NC
15.90	614.	ND	9.1	2230.	1.05	2.8	27.	ND	NC	141.	NC	NC
16.05	615.	ND	9.2	2274.	1.09	5.2	52.	ND	NC	141.	NC	NC
16.20	599.	ND	9.3	2293.	1.05	3.0	30.	ND	NC	138.	NC	NC
16.35	609.	ND	9.0	2225.	1.03	1.6	16.	ND	NC	140.	NC	NC
16.50	637.	ND	9.1	2240.	1.05	3.2	32.	ND	NC	146.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	589.	ND	9.4	2315.	1.13	7.7	78.	ND	NC	136.	NC	NC
16.80	593.	ND	9.1	2241.	1.10	5.9	58.	ND	NC	136.	NC	NC
16.95	638.	ND	9.3	2283.	1.05	3.1	31.	ND	NC	147.	NC	NC
17.10	610.	ND	9.3	2292.	1.05	3.1	31.	ND	NC	140.	NC	NC
17.25	583.	ND	8.6	2116.	1.14	8.2	77.	ND	NC	134.	NC	NC
17.40	605.	ND	8.4	2065.	1.08	5.1	47.	ND	NC	139.	NC	NC
17.55	619.	ND	8.8	2172.	1.08	4.8	46.	ND	NC	142.	NC	NC
17.70	609.	ND	9.3	2297.	1.09	5.7	57.	ND	NC	139.	NC	NC
17.85	589.	ND	8.0	1970.	1.09	5.2	46.	ND	NC	135.	NC	NC
18.00	612.	ND	7.7	1901.	1.10	6.3	53.	ND	NC	141.	NC	NC
18.15	605.	ND	8.1	1994.	1.17	10.3	91.	ND	NC	139.	NC	NC
18.30	611.	ND	8.4	2064.	1.15	9.4	85.	ND	NC	141.	NC	NC
18.45	619.	ND	7.6	1880.	1.15	9.2	76.	ND	NC	142.	NC	NC
18.60	618.	ND	7.8	1929.	1.12	7.4	63.	ND	NC	142.	NC	NC
18.75	605.	ND	7.7	1885.	1.35	21.1	176.	ND	NC	139.	NC	NC
18.90	594.	ND	7.2	1777.	1.31	18.0	141.	ND	NC	137.	NC	NC
19.05	593.	ND	7.4	1812.	1.19	11.2	90.	ND	NC	136.	NC	NC
19.20	638.	ND	7.7	1888.	1.20	12.1	101.	ND	NC	147.	NC	NC
19.35	580.	ND	7.1	1744.	1.22	13.1	101.	ND	NC	133.	NC	NC
19.50	573.	ND	6.7	1642.	1.22	13.1	95.	ND	NC	132.	NC	NC
19.65	604.	ND	6.9	1690.	1.22	13.1	98.	ND	NC	139.	NC	NC
19.80	610.	ND	7.4	1822.	1.23	14.0	112.	ND	NC	140.	NC	NC
19.95	572.	ND	6.9	1691.	1.31	19.1	142.	ND	NC	132.	NC	NC
20.10	603.	ND	6.9	1689.	1.19	11.3	84.	ND	NC	139.	NC	NC
20.25	613.	ND	7.0	1718.	1.33	20.2	153.	ND	NC	141.	NC	NC
20.40	597.	ND	7.2	1767.	1.35	21.0	164.	ND	NC	137.	NC	NC
20.55	602.	ND	7.0	1723.	1.18	10.7	81.	ND	NC	138.	NC	NC
20.70	604.	ND	6.7	1646.	1.18	10.7	78.	ND	NC	139.	NC	NC
20.85	608.	ND	7.1	1734.	1.29	17.8	137.	ND	NC	140.	NC	NC
21.00	607.	ND	6.9	1694.	1.43	25.9	193.	ND	NC	140.	NC	NC
21.15	610.	ND	7.0	1711.	1.25	15.4	116.	ND	NC	140.	NC	NC
21.30	610.	ND	7.7	1893.	1.18	11.2	93.	ND	NC	140.	NC	NC
21.45	593.	ND	7.5	1836.	1.28	17.2	139.	ND	NC	136.	NC	NC
21.60	586.	ND	6.7	1654.	1.17	10.6	77.	ND	NC	135.	NC	NC
21.75	607.	ND	6.4	1583.	1.23	14.0	98.	ND	NC	140.	NC	NC
21.90	623.	ND	7.4	1808.	1.24	14.5	116.	ND	NC	143.	NC	NC
22.05	596.	ND	7.7	1893.	1.24	14.5	121.	ND	NC	137.	NC	NC
22.20	593.	ND	7.0	1732.	1.20	12.3	94.	ND	NC	136.	NC	NC
22.35	626.	ND	7.1	1739.	1.15	9.1	70.	ND	NC	144.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	589.	ND	7.4	1828.	1.34	20.7	167.	ND	NC	135.	NC	NC
22.65	584.	ND	7.4	1812.	1.29	17.7	142.	ND	NC	134.	NC	NC
22.80	616.	ND	7.2	1782.	1.11	6.9	55.	ND	NC	142.	NC	NC
22.95	633.	ND	7.3	1793.	1.14	8.7	69.	ND	NC	146.	NC	NC
23.10	634.	ND	7.4	1812.	1.38	23.0	184.	ND	NC	139.	NC	NC
23.25	605.	ND	7.0	1715.	1.19	11.4	86.	ND	NC	139.	NC	NC
23.40	623.	ND	7.4	1808.	1.17	10.2	81.	ND	NC	143.	NC	NC
23.55	611.	ND	8.1	1994.	1.19	11.8	104.	ND	NC	141.	NC	NC
23.70	603.	ND	7.3	1807.	1.23	13.7	109.	ND	NC	139.	NC	NC
23.85	607.	ND	6.8	1662.	1.12	7.5	55.	ND	NC	139.	NC	NC
24.00	623.	ND	7.4	1829.	1.22	13.6	110.	ND	NC	143.	NC	NC
24.15	617.	ND	7.6	1876.	1.23	13.9	115.	ND	NC	142.	NC	NC
24.30	599.	ND	7.5	1836.	1.23	13.9	113.	ND	NC	138.	NC	NC
24.45	615.	ND	7.0	1732.	1.16	9.9	76.	ND	NC	142.	NC	NC
24.60	647.	ND	7.4	1813.	1.32	19.5	156.	ND	NC	147.	NC	NC
24.75	589.	ND	7.3	1799.	1.26	16.0	127.	ND	NC	135.	NC	NC
24.90	589.	ND	7.3	1802.	1.19	11.4	91.	ND	NC	135.	NC	NC
25.05	613.	ND	7.3	1802.	1.12	7.1	57.	ND	NC	141.	NC	NC
25.20	621.	ND	7.4	1811.	1.21	13.0	104.	ND	NC	143.	NC	NC
25.35	600.	ND	7.1	1757.	1.31	18.6	145.	ND	NC	138.	NC	NC
25.50	622.	ND	7.2	1778.	1.18	10.9	86.	ND	NC	143.	NC	NC
25.65	626.	ND	7.7	1904.	1.11	6.7	56.	ND	NC	144.	NC	NC
25.80	603.	ND	8.1	1987.	1.18	10.8	95.	ND	NC	139.	NC	NC
25.95	584.	ND	7.4	1828.	1.12	7.2	58.	ND	NC	134.	NC	NC
26.10	632.	ND	7.3	1803.	1.18	10.8	86.	ND	NC	145.	NC	NC
26.25	608.	ND	8.2	2013.	1.20	12.1	108.	ND	NC	140.	NC	NC
26.40	610.	ND	8.3	2053.	1.15	9.3	85.	ND	NC	140.	NC	NC
26.55	626.	ND	7.4	1813.	1.14	8.4	67.	ND	NC	144.	NC	NC
26.70	614.	ND	7.6	1879.	1.11	6.7	55.	ND	NC	141.	NC	NC
26.85	609.	ND	7.6	1866.	1.32	19.2	158.	ND	NC	140.	NC	NC
27.00	605.	ND	7.6	1869.	1.25	15.2	125.	ND	NC	139.	NC	NC
27.15	605.	ND	7.8	1914.	1.14	8.6	73.	ND	NC	139.	NC	NC
27.30	645.	ND	8.1	1997.	1.12	7.5	66.	ND	NC	148.	NC	NC
27.45	607.	ND	7.5	1855.	1.20	12.2	100.	ND	NC	140.	NC	NC
27.60	614.	ND	7.0	1728.	1.23	13.8	106.	ND	NC	140.	NC	NC
27.75	637.	ND	7.5	1849.	1.14	8.7	71.	ND	NC	147.	NC	NC
27.90	611.	ND	8.6	2121.	1.15	9.3	87.	ND	NC	141.	NC	NC
28.05	592.	ND	7.4	1812.	1.19	11.4	91.	ND	NC	136.	NC	NC
28.20	599.	ND	7.3	1791.	1.10	6.3	50.	ND	NC	139.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	615.	ND	7.6	1867.	1.16	9.5	78.	ND	NC	141.	NC	NC
28.50	597.	ND	8.3	2051.	1.16	9.5	86.	ND	NC	137.	NC	NC
28.65	608.	ND	8.5	2094.	1.11	6.7	62.	ND	NC	140.	NC	NC
28.80	633.	ND	7.7	1887.	1.11	6.7	56.	ND	NC	146.	NC	NC
28.95	615.	ND	7.8	1922.	1.18	10.7	91.	ND	NC	142.	NC	NC
29.10	593.	ND	8.0	1958.	1.25	15.1	130.	ND	NC	136.	NC	NC
29.25	613.	ND	8.3	2050.	1.11	6.7	61.	ND	NC	141.	NC	NC
29.40	597.	ND	8.5	2098.	1.08	4.7	44.	ND	NC	137.	NC	NC
29.55	592.	ND	7.8	1916.	1.16	9.9	84.	ND	NC	136.	NC	NC
29.70	598.	ND	7.4	1831.	1.17	10.4	84.	ND	NC	138.	NC	NC
29.85	623.	ND	7.8	1916.	1.14	8.6	73.	ND	NC	143.	NC	NC
30.00	617.	ND	8.5	2099.	1.11	6.7	62.	ND	NC	142.	NC	NC
30.15	596.	ND	8.6	2122.	1.18	11.1	104.	ND	NC	137.	NC	NC
30.30	595.	ND	7.4	1829.	1.16	10.0	81.	ND	NC	137.	NC	NC
30.45	632.	ND	7.2	1768.	1.13	7.7	60.	ND	NC	145.	NC	NC
30.60	616.	ND	8.3	2040.	1.19	11.7	105.	ND	NC	142.	NC	NC
30.75	586.	ND	8.4	2074.	1.14	8.6	79.	ND	NC	135.	NC	NC
30.90	608.	ND	7.9	1936.	1.09	5.4	46.	ND	NC	140.	NC	NC
31.05	619.	ND	7.4	1831.	1.15	8.9	72.	ND	NC	142.	NC	NC
31.20	594.	ND	7.5	1842.	1.23	13.9	113.	ND	NC	137.	NC	NC
31.35	607.	ND	7.8	1920.	1.14	8.3	70.	ND	NC	140.	NC	NC
31.50	626.	ND	8.4	2070.	1.08	5.0	46.	ND	NC	144.	NC	NC
31.65	587.	ND	8.8	2156.	1.05	2.9	28.	ND	NC	135.	NC	NC
31.80	589.	ND	7.5	1834.	1.01	0.9	7.	ND	NC	135.	NC	NC
31.95	620.	ND	7.2	1759.	1.02	1.1	9.	ND	NC	143.	NC	NC
32.10	622.	ND	8.1	2004.	1.16	9.4	83.	ND	NC	143.	NC	NC
32.25	604.	ND	9.5	2344.	1.08	5.0	52.	ND	NC	139.	NC	NC
32.40	583.	ND	4.9	1213.	1.01	0.8	4.	ND	NC	134.	NC	NC
32.55	617.	ND	4.9	1197.	1.01	0.6	3.	ND	NC	142.	NC	NC
32.70	652.	ND	5.9	1458.	1.03	2.0	13.	ND	NC	150.	NC	NC
32.85	593.	ND	7.4	1814.	1.05	3.1	24.	ND	NC	136.	NC	NC
33.00	585.	ND	7.7	1891.	1.04	2.2	19.	ND	NC	135.	NC	NC
33.15	630.	ND	6.9	1686.	1.05	3.1	23.	ND	NC	145.	NC	NC
33.30	594.	ND	5.1	1258.	1.02	1.4	8.	ND	NC	137.	NC	NC
33.45	586.	ND	7.4	1831.	1.03	1.6	13.	ND	NC	135.	NC	NC
33.60	618.	ND	8.0	1976.	1.04	2.1	19.	ND	NC	142.	NC	NC
33.75	603.	ND	8.9	2196.	1.07	4.2	41.	ND	NC	139.	NC	NC
33.90	578.	ND	8.2	2017.	1.04	2.6	24.	ND	NC	133.	NC	NC
34.05	588.	ND	7.2	1780.	1.01	0.3	3.	ND	NC	135.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	616.	ND	7.8	1909.	1.16	9.6	81.	ND	NC	142.	NC	NC
34.35	607.	ND	8.6	2107.	1.17	10.3	96.	ND	NC	139.	NC	NC
34.50	609.	ND	8.8	2155.	1.09	5.2	49.	ND	NC	140.	NC	NC
34.65	622.	ND	7.5	1854.	1.11	6.9	57.	ND	NC	143.	NC	NC
34.80	620.	ND	7.5	1854.	1.20	12.1	99.	ND	NC	143.	NC	NC
34.95	602.	ND	7.6	1860.	1.38	22.8	187.	ND	NC	138.	NC	NC
35.10	602.	ND	7.7	1891.	1.23	13.9	116.	ND	NC	139.	NC	NC
35.25	611.	ND	8.1	1992.	1.09	5.5	48.	ND	NC	140.	NC	NC
35.40	610.	ND	8.1	1998.	1.15	8.9	79.	ND	NC	140.	NC	NC
35.55	600.	ND	7.1	1746.	1.20	12.1	93.	ND	NC	138.	NC	NC
35.70	608.	ND	6.8	1675.	1.16	9.7	72.	ND	NC	140.	NC	NC
35.85	639.	ND	8.0	1956.	1.10	5.8	50.	ND	NC	147.	NC	NC
36.00	623.	ND	8.6	2125.	1.16	9.4	92.	ND	NC	143.	NC	NC
36.15	590.	ND	7.2	1772.	1.19	11.6	90.	ND	NC	136.	NC	NC
36.30	601.	ND	7.2	1768.	1.11	6.5	51.	ND	NC	138.	NC	NC
36.45	621.	ND	7.5	1848.	1.22	13.5	110.	ND	NC	143.	NC	NC
36.60	594.	ND	8.2	2005.	1.16	9.8	86.	ND	NC	137.	NC	NC
36.75	611.	ND	8.1	1984.	1.05	3.0	27.	ND	NC	141.	NC	NC
36.90	608.	ND	7.3	1793.	1.13	8.0	63.	ND	NC	140.	NC	NC
37.05	594.	ND	7.0	1714.	1.29	17.3	131.	ND	NC	137.	NC	NC
37.20	587.	ND	6.9	1707.	1.33	19.9	150.	ND	NC	135.	NC	NC
37.35	613.	ND	7.6	1863.	1.12	7.2	60.	ND	NC	141.	NC	NC
37.50	590.	ND	8.2	2007.	1.12	7.1	63.	ND	NC	136.	NC	NC
37.65	576.	ND	7.3	1800.	1.21	12.9	103.	ND	NC	132.	NC	NC
37.80	591.	ND	6.8	1683.	1.13	8.0	60.	ND	NC	136.	NC	NC
37.95	617.	ND	7.1	1756.	1.19	11.2	87.	ND	NC	142.	NC	NC
38.10	622.	ND	7.7	1901.	1.11	6.6	55.	ND	NC	143.	NC	NC
38.25	602.	ND	7.8	1968.	1.13	7.9	66.	ND	NC	139.	NC	NC
38.40	599.	ND	7.5	1837.	1.13	7.7	62.	ND	NC	138.	NC	NC
38.55	634.	ND	7.6	1872.	1.11	6.9	57.	ND	NC	146.	NC	NC
38.70	590.	ND	8.7	2128.	1.15	9.1	85.	ND	NC	136.	NC	NC
38.85	588.	ND	8.8	2159.	1.11	6.4	61.	ND	NC	135.	NC	NC
39.00	621.	ND	8.4	2062.	1.06	3.5	31.	ND	NC	143.	NC	NC
39.15	604.	ND	8.2	2025.	1.11	6.5	58.	ND	NC	139.	NC	NC
39.30	582.	ND	8.3	2030.	1.19	11.6	104.	ND	NC	134.	NC	NC
39.45	590.	ND	8.1	2000.	1.11	6.7	59.	ND	NC	136.	NC	NC
39.60	614.	ND	8.5	2101.	1.11	6.6	62.	ND	NC	141.	NC	NC
39.75	602.	ND	8.4	2076.	1.13	7.7	71.	ND	NC	138.	NC	NC
39.90	598.	ND	7.8	1909.	1.15	8.8	74.	ND	NC	137.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	624.	ND	7.8	1908.	1.11	6.9	58.	ND	NC	144.	NC	NC
40.20	616.	ND	8.3	2045.	1.12	7.3	66.	ND	NC	142.	NC	NC
40.35	606.	ND	9.1	2248.	1.14	8.3	82.	ND	NC	139.	NC	NC
40.50	601.	ND	8.1	2003.	1.14	8.6	76.	ND	NC	138.	NC	NC
40.65	618.	ND	7.7	1905.	1.12	7.1	59.	ND	NC	142.	NC	NC
40.80	624.	ND	7.9	1948.	1.21	12.7	109.	ND	NC	144.	NC	NC
40.95	598.	ND	8.1	1982.	1.21	12.9	113.	ND	NC	137.	NC	NC
41.10	603.	ND	8.0	1970.	1.16	9.5	83.	ND	NC	139.	NC	NC
41.25	636.	ND	8.0	1971.	1.10	5.9	51.	ND	NC	146.	NC	NC
41.40	600.	ND	7.9	1932.	1.16	9.8	83.	ND	NC	139.	NC	NC
41.55	596.	ND	7.6	1872.	1.18	10.9	90.	ND	NC	137.	NC	NC
41.70	620.	ND	7.8	1929.	1.11	6.9	59.	ND	NC	143.	NC	NC
41.85	607.	ND	8.5	2096.	1.13	8.0	74.	ND	NC	140.	NC	NC
42.00	583.	ND	8.5	2084.	1.20	12.1	111.	ND	NC	134.	NC	NC
42.15	591.	ND	7.5	1841.	1.11	6.4	52.	ND	NC	136.	NC	NC
42.30	615.	ND	7.9	1946.	1.13	7.9	68.	ND	NC	141.	NC	NC
42.45	595.	ND	8.6	2105.	1.20	12.4	115.	ND	NC	137.	NC	NC
42.60	609.	ND	7.8	1921.	1.23	14.0	119.	ND	NC	140.	NC	NC
42.75	615.	ND	7.5	1833.	1.13	7.9	64.	ND	NC	142.	NC	NC
42.90	615.	ND	7.8	1924.	1.15	8.8	75.	ND	NC	142.	NC	NC
43.05	603.	ND	8.2	2016.	1.20	12.1	108.	ND	NC	139.	NC	NC
43.20	595.	ND	8.0	1956.	1.19	11.7	101.	ND	NC	137.	NC	NC
43.35	605.	ND	8.0	1972.	1.13	7.7	67.	ND	NC	139.	NC	NC
43.50	606.	ND	7.9	1948.	1.11	6.6	58.	ND	NC	139.	NC	NC
43.65	589.	ND	7.7	1906.	1.17	10.0	84.	ND	NC	135.	NC	NC
43.80	592.	ND	7.9	1939.	1.15	8.9	76.	ND	NC	136.	NC	NC
43.95	641.	ND	8.2	2020.	1.10	6.4	57.	ND	NC	147.	NC	NC
44.10	588.	ND	8.9	2189.	1.13	7.9	76.	ND	NC	135.	NC	NC
44.25	579.	ND	8.0	1957.	1.15	9.3	80.	ND	NC	133.	NC	NC
44.40	623.	ND	8.0	1969.	1.08	5.1	44.	ND	NC	143.	NC	NC
44.55	604.	ND	8.2	2006.	1.12	7.4	65.	ND	NC	139.	NC	NC
44.70	594.	ND	8.9	2193.	1.17	10.3	100.	ND	NC	137.	NC	NC
44.85	597.	ND	8.2	2008.	1.09	5.6	49.	ND	NC	137.	NC	NC
45.00	602.	ND	8.4	2063.	1.09	5.6	51.	ND	NC	139.	NC	NC
45.15	595.	ND	8.3	2098.	1.12	7.5	69.	ND	NC	137.	NC	NC
45.30	591.	ND	8.5	2082.	1.18	10.6	98.	ND	NC	136.	NC	NC
45.45	619.	ND	8.3	2040.	1.11	6.5	58.	ND	NC	142.	NC	NC
45.60	575.	ND	8.6	2126.	1.11	6.7	63.	ND	NC	132.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 29 78
RUN NUMBER- 1
SEGMENT NUMBER- 2
WATER DEPTH- 8 TO 1[illegible] FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	606.	ND	8.2	2016.	1.11	6.4	57.	ND	NC	139.	NC	NC
0.15	574.	ND	8.6	2115.	1.11	6.5	60.	ND	NC	132.	NC	NC
0.30	583.	ND	8.2	2009.	1.13	7.9	70.	ND	NC	134.	NC	NC
0.45	592.	ND	7.8	1926.	1.13	8.2	69.	ND	NC	136.	NC	NC
0.60	605.	ND	8.2	2029.	1.11	6.4	58.	ND	NC	139.	NC	NC
0.75	608.	ND	9.1	2238.	1.11	6.5	64.	ND	NC	140.	NC	NC
0.90	587.	ND	8.7	2128.	1.12	7.1	67.	ND	NC	135.	NC	NC
1.05	592.	ND	8.3	2050.	1.09	5.2	47.	ND	NC	136.	NC	NC
1.20	626.	ND	8.5	2093.	1.10	5.9	54.	ND	NC	144.	NC	NC
1.35	596.	ND	9.3	2297.	1.12	7.3	74.	ND	NC	137.	NC	NC
1.50	577.	ND	9.1	2237.	1.12	6.7	59.	ND	NC	133.	NC	NC
1.65	597.	ND	8.8	2160.	1.05	3.1	30.	ND	NC	137.	NC	NC
1.80	602.	ND	8.8	2165.	1.10	6.1	58.	ND	NC	138.	NC	NC
1.95	583.	ND	9.1	2235.	1.17	10.4	103.	ND	NC	134.	NC	NC
2.10	592.	ND	9.1	2227.	1.07	4.3	42.	ND	NC	136.	NC	NC
2.25	603.	ND	9.4	2311.	1.06	3.5	36.	ND	NC	139.	NC	NC
2.40	581.	ND	9.6	2360.	1.09	5.3	55.	ND	NC	134.	NC	NC
2.55	580.	ND	8.9	2177.	1.08	5.0	48.	ND	NC	133.	NC	NC
2.70	605.	ND	8.7	2143.	1.08	5.0	48.	ND	NC	139.	NC	NC
2.85	583.	ND	9.6	2359.	1.08	5.1	53.	ND	NC	134.	NC	NC
3.00	566.	ND	9.9	2442.	1.09	5.4	58.	ND	NC	130.	NC	NC
3.15	589.	ND	9.3	2299.	1.10	6.0	61.	ND	NC	135.	NC	NC
3.30	610.	ND	9.3	2283.	1.08	5.0	50.	ND	NC	140.	NC	NC
3.45	599.	ND	9.3	2297.	1.14	8.3	85.	ND	NC	138.	NC	NC
3.60	515.	ND	9.2	2259.	1.10	6.1	61.	ND	NC	118.	NC	NC
3.75	461.	ND	9.0	2205.	1.06	3.3	32.	ND	NC	106.	NC	NC
3.90	507.	ND	8.9	2184.	1.07	4.1	39.	ND	NC	117.	NC	NC
4.05	585.	ND	9.0	2204.	1.12	7.3	71.	ND	NC	135.	NC	NC
4.20	587.	ND	8.8	2167.	1.10	6.0	57.	ND	NC	135.	NC	NC
4.35	604.	ND	8.9	2200.	1.06	3.8	37.	ND	NC	139.	NC	NC
4.50	604.	ND	9.8	2400.	1.06	3.6	38.	ND	NC	139.	NC	NC
4.65	557.	ND	9.2	2257.	1.11	6.5	65.	ND	NC	128.	NC	NC
4.80	530.	ND	9.0	2207.	1.08	4.8	47.	ND	NC	122.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	511.	ND	9.5	2333.	1.02	1.5	15.	ND	NC	117.	NC	NC
5.10	493.	ND	10.0	2466.	1.04	2.6	28.	ND	NC	114.	NC	NC
5.25	488.	ND	10.2	2497.	1.03	1.8	20.	ND	NC	112.	NC	NC
5.40	496.	ND	9.4	2323.	1.03	1.6	16.	ND	NC	114.	NC	NC
5.55	479.	ND	9.9	2429.	1.05	3.0	32.	ND	NC	110.	NC	NC
5.70	473.	ND	10.7	2636.	1.05	3.0	35.	ND	NC	109.	NC	NC
5.85	500.	ND	10.3	2531.	1.03	2.1	23.	ND	NC	115.	NC	NC
6.00	494.	ND	10.0	2450.	1.02	1.3	14.	ND	NC	114.	NC	NC
6.15	481.	ND	10.6	2606.	1.04	2.2	25.	ND	NC	111.	NC	NC
6.30	477.	ND	10.5	2582.	1.05	3.0	34.	ND	NC	110.	NC	NC
6.45	479.	ND	10.6	2599.	1.03	1.9	22.	ND	NC	110.	NC	NC
6.60	483.	ND	11.2	2745.	1.02	1.1	13.	ND	NC	111.	NC	NC
6.75	453.	ND	10.8	2664.	1.01	0.4	4.	ND	NC	104.	NC	NC
6.90	471.	ND	9.0	2203.	1.00	0.	0.	ND	NC	108.	NC	NC
7.05	501.	ND	10.4	2546.	1.00	0.	0.	ND	NC	115.	NC	NC
7.20	487.	ND	10.8	2661.	1.01	0.4	5.	ND	NC	112.	NC	NC
7.35	472.	ND	10.7	2629.	1.01	0.6	7.	ND	NC	108.	NC	NC
7.50	482.	ND	9.7	2394.	1.02	0.9	10.	ND	NC	111.	NC	NC
7.65	485.	ND	10.2	2507.	1.01	0.7	8.	ND	NC	112.	NC	NC
7.80	453.	ND	10.7	2621.	1.02	1.2	13.	ND	NC	104.	NC	NC
7.95	429.	ND	11.0	2712.	1.03	1.6	19.	ND	NC	99.	NC	NC
8.10	445.	ND	9.8	2407.	1.02	1.4	15.	ND	NC	102.	NC	NC
8.25	412.	ND	9.6	2366.	1.02	1.1	11.	ND	NC	95.	NC	NC
8.40	420.	ND	9.7	2382.	1.02	1.3	14.	ND	NC	97.	NC	NC
8.55	429.	ND	9.5	2342.	1.03	1.5	16.	ND	NC	99.	NC	NC
8.70	443.	ND	10.1	2484.	1.02	1.1	12.	ND	NC	102.	NC	NC
8.85	433.	ND	10.4	2557.	1.02	1.2	13.	ND	NC	100.	NC	NC
9.00	422.	ND	10.3	2536.	1.01	0.8	9.	ND	NC	97.	NC	NC
9.15	444.	ND	9.8	2399.	1.01	0.9	9.	ND	NC	102.	NC	NC
9.30	458.	ND	9.8	2419.	1.02	1.1	11.	ND	NC	105.	NC	NC
9.45	426.	ND	10.7	2620.	1.02	1.0	12.	ND	NC	98.	NC	NC
9.60	424.	ND	11.4	2803.	1.01	0.5	6.	ND	NC	98.	NC	NC
9.75	445.	ND	6.6	1630.	1.00	0.	0.	ND	NC	102.	NC	NC
9.90	407.	ND	7.4	1815.	1.00	0.	0.	ND	NC	93.	NC	NC
10.05	414.	NO	8.3	2042.	1.00	0.	0.	ND	NC	95.	NC	NC
10.20	439.	ND	8.3	2033.	1.00	0.	0.	ND	NC	101.	NC	NC
10.35	419.	ND	9.1	2245.	1.00	0.	0.	ND	NC	96.	NC	NC
10.50	397.	ND	9.5	2328.	1.00	0.	0.	ND	NC	91.	NC	NC
10.65	397.	ND	8.7	2141.	1.00	0.	0.	ND	NC	91.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	390.	ND	9.5	2343.	1.00	0.	0.	ND	NC	90.	NC	NC
10.95	377.	ND	9.5	2348.	1.00	0.	0.	ND	NC	87.	NC	NC
11.10	377.	ND	10.0	2448.	1.00	0.	0.	ND	NC	87.	NC	NC
11.25	394.	ND	9.1	2245.	1.01	0.6	6.	ND	NC	91.	NC	NC
11.40	415.	ND	9.3	2288.	1.01	0.6	6.	ND	NC	96.	NC	NC
11.55	407.	ND	9.7	2393.	1.01	0.7	7.	ND	NC	94.	NC	NC
11.70	407.	ND	9.6	2371.	1.01	0.6	6.	ND	NC	94.	NC	NC
11.85	418.	ND	9.2	2273.	1.01	0.8	8.	ND	NC	96.	NC	NC
12.00	432.	ND	9.3	2298.	1.02	0.9	9.	ND	NC	99.	NC	NC
12.15	439.	ND	9.3	2289.	1.05	3.0	30.	ND	NC	101.	NC	NC
12.30	437.	ND	9.0	2210.	1.04	2.2	22.	ND	NC	101.	NC	NC
12.45	458.	ND	9.7	2387.	1.02	1.4	15.	ND	NC	105.	NC	NC
12.60	434.	ND	10.0	2455.	1.02	1.3	14.	ND	NC	100.	NC	NC
12.75	435.	ND	9.3	2299.	1.02	1.2	12.	ND	NC	100.	NC	NC
12.90	453.	ND	8.0	1965.	1.04	2.4	21.	ND	NC	104.	NC	NC
13.05	451.	ND	8.4	2054.	1.15	9.3	84.	ND	NC	104.	NC	NC
13.20	440.	ND	9.3	2296.	1.06	3.7	37.	ND	NC	101.	NC	NC
13.35	437.	ND	8.8	2160.	1.02	0.9	9.	ND	NC	100.	NC	NC
13.50	459.	ND	8.4	2062.	1.05	2.8	26.	ND	NC	106.	NC	NC
13.65	440.	ND	8.1	2003.	1.23	13.8	122.	ND	NC	101.	NC	NC
13.80	443.	ND	7.7	1886.	1.23	12.3	102.	ND	NC	102.	NC	NC
13.95	445.	ND	8.4	2055.	1.07	4.0	37.	ND	NC	102.	NC	NC
14.10	446.	ND	8.8	2168.	1.08	5.0	48.	ND	NC	103.	NC	NC
14.25	434.	ND	7.9	1944.	1.10	6.3	54.	ND	NC	100.	NC	NC
14.40	442.	ND	7.1	1758.	1.10	6.4	49.	ND	NC	102.	NC	NC
14.55	451.	ND	7.3	1789.	1.23	13.8	109.	ND	NC	104.	NC	NC
14.70	442.	ND	8.1	1989.	1.03	1.8	16.	ND	NC	102.	NC	NC
14.85	429.	ND	7.6	1864.	1.12	7.3	60.	ND	NC	99.	NC	NC
15.00	415.	ND	7.1	1742.	1.12	7.4	57.	ND	NC	96.	NC	NC
15.15	454.	ND	7.0	1729.	1.31	19.0	145.	ND	NC	104.	NC	NC
15.30	456.	ND	7.3	1790.	1.61	36.7	290.	ND	NC	105.	NC	NC
15.45	437.	ND	8.4	2076.	1.08	4.6	42.	ND	NC	100.	NC	NC
15.60	450.	ND	7.7	1899.	1.05	3.0	25.	ND	NC	104.	NC	NC
15.75	447.	ND	7.1	1741.	1.21	12.9	99.	ND	NC	103.	NC	NC
15.90	443.	ND	6.7	1657.	1.37	22.3	163.	ND	NC	102.	NC	NC
16.05	455.	ND	7.6	1874.	1.32	19.5	161.	ND	NC	105.	NC	NC
16.20	465.	ND	8.4	2058.	1.09	5.5	50.	ND	NC	107.	NC	NC
16.35	445.	ND	8.0	1960.	1.13	7.6	66.	ND	NC	102.	NC	NC
16.50	433.	ND	6.8	1674.	1.20	12.0	88.	ND	NC	100.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	451.	ND	6.5	1597.	1.15	9.3	66.	ND	NC	104.	NC	NC
16.80	460.	ND	7.0	1718.	1.31	18.6	141.	ND	NC	106.	NC	NC
16.95	448.	ND	8.3	2036.	1.08	5.1	46.	ND	NC	103.	NC	NC
17.10	430.	ND	7.3	1784.	1.10	5.8	45.	ND	NC	99.	NC	NC
17.25	430.	ND	6.8	1672.	1.15	9.2	68.	ND	NC	99.	NC	NC
17.40	474.	ND	6.8	1674.	1.46	27.9	207.	ND	NC	109.	NC	NC
17.55	443.	ND	7.3	1788.	1.35	21.3	168.	ND	NC	102.	NC	NC
17.70	426.	ND	7.7	1891.	1.09	5.3	44.	ND	NC	98.	NC	NC
17.85	460.	ND	7.6	1862.	1.13	7.7	64.	ND	NC	106.	NC	NC
18.00	440.	ND	5.8	1436.	1.28	17.1	109.	ND	NC	101.	NC	NC
18.15	438.	ND	5.9	1446.	1.21	12.9	83.	ND	NC	101.	NC	NC
18.30	481.	ND	6.6	1631.	1.36	21.9	158.	ND	NC	111.	NC	NC
18.45	486.	ND	5.5	1342.	1.13	7.9	47.	ND	NC	112.	NC	NC
18.60	461.	ND	3.3	806.	1.06	3.5	12.	ND	NC	106.	NC	NC
18.75	393.	ND	3.1	770.	1.04	2.6	9.	ND	NC	90.	NC	NC
18.90	479.	ND	5.9	1452.	1.56	33.7	216.	ND	NC	110.	NC	NC
19.05	446.	ND	6.2	1533.	1.41	24.6	167.	ND	NC	102.	NC	NC
19.20	433.	ND	6.2	1536.	1.17	10.6	72.	ND	NC	100.	NC	NC
19.35	444.	ND	6.4	1584.	1.18	11.1	78.	ND	NC	102.	NC	NC
19.50	465.	ND	5.8	1434.	1.45	27.3	173.	ND	NC	107.	NC	NC
19.65	460.	ND	6.3	1545.	1.43	26.1	178.	ND	NC	106.	NC	NC
19.80	439.	ND	6.9	1706.	1.20	11.9	90.	ND	NC	101.	NC	NC
19.95	436.	ND	7.5	1847.	1.10	5.9	48.	ND	NC	100.	NC	NC
20.10	448.	ND	6.9	1695.	1.25	15.4	115.	ND	NC	103.	NC	NC
20.25	460.	ND	6.4	1567.	1.29	17.4	121.	ND	NC	106.	NC	NC
20.40	466.	ND	7.2	1766.	1.21	13.0	101.	ND	NC	107.	NC	NC
20.55	482.	ND	7.9	1946.	1.10	5.8	50.	ND	NC	111.	NC	NC
20.70	451.	ND	8.1	2002.	1.05	3.1	27.	ND	NC	104.	NC	NC
20.85	447.	ND	7.0	1715.	1.10	6.2	47.	ND	NC	103.	NC	NC
21.00	473.	ND	7.1	1748.	1.10	6.2	48.	ND	NC	108.	NC	NC
21.15	454.	ND	7.9	1941.	1.17	10.1	86.	ND	NC	104.	NC	NC
21.30	459.	ND	8.4	2072.	1.06	3.9	35.	ND	NC	105.	NC	NC
21.45	472.	ND	7.8	1924.	1.03	1.9	16.	ND	NC	109.	NC	NC
21.60	443.	ND	8.0	1973.	1.06	3.8	34.	ND	NC	102.	NC	NC
21.75	459.	ND	8.3	2036.	1.13	7.8	70.	ND	NC	106.	NC	NC
21.90	466.	ND	8.4	2064.	1.11	6.8	62.	ND	NC	107.	NC	NC
22.05	463.	ND	8.6	2122.	1.06	3.5	33.	ND	NC	106.	NC	NC
22.20	461.	ND	8.5	2090.	1.05	2.8	25.	ND	NC	106.	NC	NC
22.35	454.	ND	8.5	2081.	1.08	5.3	46.	ND	NC	104.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	457.	ND	8.2	2012.	1.11	6.7	60.	ND	NC	105.	NC	NC
22.65	470.	ND	8.4	2054.	1.09	5.3	46.	ND	NC	108.	NC	NC
22.80	467.	ND	8.9	2177.	1.04	2.3	22.	ND	NC	107.	NC	NC
22.95	444.	ND	8.6	2126.	1.04	2.7	25.	ND	NC	102.	NC	NC
23.10	454.	ND	8.3	2029.	1.04	2.7	24.	ND	NC	104.	NC	NC
23.25	488.	ND	8.5	2101.	1.08	4.6	43.	ND	NC	112.	NC	NC
23.40	459.	ND	9.0	2220.	1.09	5.2	51.	ND	NC	106.	NC	NC
23.55	453.	ND	9.0	2211.	1.03	1.9	18.	ND	NC	104.	NC	NC
23.70	483.	ND	8.4	2054.	1.03	2.0	18.	ND	NC	111.	NC	NC
23.85	455.	ND	8.4	2074.	1.07	4.3	39.	ND	NC	105.	NC	NC
24.00	460.	ND	8.2	2018.	1.15	9.2	82.	ND	NC	106.	NC	NC
24.15	465.	ND	8.3	2034.	1.08	5.1	46.	ND	NC	107.	NC	NC
24.30	461.	ND	8.7	2138.	1.03	1.6	15.	ND	NC	106.	NC	NC
24.45	456.	ND	8.7	2138.	1.08	4.8	45.	ND	NC	105.	NC	NC
24.60	461.	ND	8.1	1981.	1.08	4.7	41.	ND	NC	106.	NC	NC
24.75	469.	ND	7.5	1848.	1.10	6.1	50.	ND	NC	108.	NC	NC
24.90	472.	ND	8.3	2032.	1.10	6.2	56.	ND	NC	109.	NC	NC
25.05	457.	ND	8.7	2140.	1.05	3.1	29.	ND	NC	105.	NC	NC
25.20	445.	ND	7.7	1899.	1.06	3.4	28.	ND	NC	102.	NC	NC
25.35	459.	ND	7.7	1887.	1.08	4.9	41.	ND	NC	106.	NC	NC
25.50	471.	ND	7.7	1900.	1.19	11.3	94.	ND	NC	108.	NC	NC
25.65	446.	ND	7.9	1934.	1.07	4.4	37.	ND	NC	103.	NC	NC
25.80	446.	ND	8.0	1968.	1.04	2.2	19.	ND	NC	103.	NC	NC
25.95	480.	ND	7.6	1875.	1.08	4.7	39.	ND	NC	110.	NC	NC
26.10	449.	ND	7.2	1770.	1.21	12.9	101.	ND	NC	103.	NC	NC
26.25	434.	ND	6.9	1698.	1.22	13.4	101.	ND	NC	100.	NC	NC
26.40	477.	ND	7.7	1884.	1.12	7.3	61.	ND	NC	110.	NC	NC
26.55	432.	ND	7.9	1950.	1.07	4.5	38.	ND	NC	99.	NC	NC
26.70	435.	ND	7.5	1836.	1.12	7.3	59.	ND	NC	100.	NC	NC
26.85	462.	ND	6.8	1665.	1.12	7.0	51.	ND	NC	106.	NC	NC
27.00	465.	ND	6.9	1706.	1.32	19.7	148.	ND	NC	107.	NC	NC
27.15	452.	ND	7.5	1839.	1.15	9.2	75.	ND	NC	104.	NC	NC
27.30	442.	ND	7.3	1805.	1.05	3.1	25.	ND	NC	102.	NC	NC
27.45	456.	ND	6.6	1624.	1.09	5.7	41.	ND	NC	105.	NC	NC
27.60	466.	ND	6.5	1609.	1.29	17.6	125.	ND	NC	107.	NC	NC
27.75	454.	ND	6.6	1630.	1.42	25.5	183.	ND	NC	104.	NC	NC
27.90	446.	ND	7.2	1764.	1.15	9.2	71.	ND	NC	103.	NC	NC
28.05	463.	ND	7.5	1834.	1.07	4.2	34.	ND	NC	106.	NC	NC
28.20	452.	ND	7.1	1742.	1.26	15.9	123.	ND	NC	104.	NC	NC

RUN NUMBER- 1C
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	434.	ND	5.6	1373.	1.22	13.5	82.	ND	NC	100.	NC	NC
28.50	444.	ND	5.9	1462.	1.39	23.8	154.	ND	NC	102.	NC	NC
28.65	475.	ND	5.9	1691.	1.21	13.0	97.	ND	NC	109.	NC	NC
28.80	450.	ND	5.8	1669.	1.11	6.4	47.	ND	NC	103.	NC	NC
28.95	427.	ND	5.0	1475.	1.16	9.5	62.	ND	NC	98.	NC	NC
29.10	448.	ND	6.0	1473.	1.43	25.9	169.	ND	NC	103.	NC	NC
29.25	465.	ND	6.4	1573.	1.41	25.0	174.	ND	NC	107.	NC	NC
29.40	453.	ND	6.9	1697.	1.19	11.2	84.	ND	NC	104.	NC	NC
29.55	465.	ND	7.0	1713.	1.06	3.8	29.	ND	NC	107.	NC	NC
29.70	454.	ND	6.2	1521.	1.34	20.6	139.	ND	NC	104.	NC	NC
29.85	449.	ND	6.0	1469.	1.50	30.3	197.	ND	NC	103.	NC	NC
30.00	461.	ND	6.5	1595.	1.40	24.2	171.	ND	NC	106.	NC	NC
30.15	461.	ND	7.0	1720.	1.18	11.1	84.	ND	NC	106.	NC	NC
30.30	452.	ND	6.8	1676.	1.15	9.1	67.	ND	NC	104.	NC	NC
30.45	439.	ND	5.7	1413.	1.20	11.9	74.	ND	NC	101.	NC	NC
30.60	439.	ND	5.8	1436.	1.27	16.3	104.	ND	NC	101.	NC	NC
30.75	471.	ND	6.4	1577.	1.37	22.3	156.	ND	NC	108.	NC	NC
30.90	447.	ND	7.2	1769.	1.10	5.8	45.	ND	NC	103.	NC	NC
31.05	418.	ND	6.2	1521.	1.06	3.5	24.	ND	NC	96.	NC	NC
31.20	460.	ND	6.1	1489.	1.18	10.8	71.	ND	NC	106.	NC	NC
31.35	472.	ND	6.2	1531.	1.39	23.8	161.	ND	NC	109.	NC	NC
31.50	450.	ND	5.8	1676.	1.29	17.7	131.	ND	NC	103.	NC	NC
31.65	446.	ND	7.2	1761.	1.07	4.0	31.	ND	NC	103.	NC	NC
31.80	474.	ND	6.6	1619.	1.23	13.8	99.	ND	NC	109.	NC	NC
31.95	442.	ND	6.1	1491.	1.36	21.6	142.	ND	NC	102.	NC	NC
32.10	449.	ND	6.3	1539.	1.42	25.4	173.	ND	NC	103.	NC	NC
32.25	467.	ND	7.0	1717.	1.24	14.3	108.	ND	NC	107.	NC	NC
32.40	457.	ND	7.2	1768.	1.08	5.0	39.	ND	NC	105.	NC	NC
32.55	431.	ND	6.1	1497.	1.17	10.3	68.	ND	NC	99.	NC	NC
32.70	441.	ND	5.9	1445.	1.22	13.2	84.	ND	NC	102.	NC	NC
32.85	466.	ND	6.3	1546.	1.35	21.3	145.	ND	NC	107.	NC	NC
33.00	458.	ND	6.8	1679.	1.19	11.7	87.	ND	NC	105.	NC	NC
33.15	435.	ND	6.8	1675.	1.07	4.5	33.	ND	NC	100.	NC	NC
33.30	445.	ND	6.2	1531.	1.11	6.9	46.	ND	NC	102.	NC	NC
33.45	480.	ND	6.1	1501.	1.27	16.6	110.	ND	NC	111.	NC	NC
33.60	448.	ND	6.3	1542.	1.41	25.0	170.	ND	NC	103.	NC	NC
33.75	427.	ND	7.1	1755.	1.17	10.3	80.	ND	NC	99.	NC	NC
33.90	451.	ND	7.4	1829.	1.07	4.5	36.	ND	NC	104.	NC	NC
34.05	463.	ND	6.2	1536.	1.27	16.6	113.	ND	NC	107.	NC	NC

RUN NUMBER- 1?
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	438.	ND	6.1	1495.	1.29	17.4	115.	ND	NC	101.	NC	NC
34.35	441.	ND	6.3	1549.	1.24	14.7	100.	ND	NC	101.	NC	NC
34.5	468.	ND	6.9	1701.	1.15	9.2	69.	ND	NC	108.	NC	NC
34.65	438.	ND	7.5	1835.	1.13	7.7	63.	ND	NC	101.	NC	NC
34.8[illegible]	433.	ND	6.3	1558.	1.20	11.9	82.	ND	NC	100.	NC	NC
34.95	436.	ND	6.4	1569.	1.18	11.0	76.	ND	NC	100.	NC	NC
35.10	439.	ND	6.9	1689.	1.35	21.2	158.	ND	NC	101.	NC	NC
35.25	443.	ND	7.6	1866.	1.10	5.9	49.	ND	NC	102.	NC	NC
35.4[illegible]	446.	ND	7.0	1716.	1.07	4.0	30.	ND	NC	103.	NC	NC
35.55	450.	ND	6.7	1656.	1.13	7.6	56.	ND	NC	103.	NC	NC
35.7[illegible]	458.	ND	6.7	1656.	1.39	23.5	172.	ND	NC	105.	NC	NC
35.85	444.	ND	6.9	1692.	1.24	14.8	111.	ND	NC	102.	NC	NC
36.00	438.	ND	7.3	1790.	1.11	6.8	53.	ND	NC	101.	NC	NC
36.15	475.	ND	7.3	1806.	1.09	5.6	45.	ND	NC	109.	NC	NC
36.30	439.	ND	6.5	1609.	1.20	12.2	87.	ND	NC	101.	NC	NC
36.45	441.	ND	6.1	1488.	1.21	12.5	82.	ND	NC	102.	NC	NC
36.6[illegible]	452.	ND	6.6	1626.	1.28	16.7	120.	ND	NC	104.	NC	NC
36.75	467.	ND	7.2	1773.	1.12	7.5	59.	ND	NC	107.	NC	NC
36.9[illegible]	443.	ND	7.2	1771.	1.12	7.3	57.	ND	NC	102.	NC	NC
37.05	449.	ND	6.6	1630.	1.14	8.8	63.	ND	NC	103.	NC	NC
37.2[illegible]	464.	ND	6.5	1596.	1.33	20.1	141.	ND	NC	107.	NC	NC
37.35	442.	ND	6.7	1656.	1.30	18.0	132.	ND	NC	102.	NC	NC
37.50	422.	ND	7.5	1636.	1.12	7.5	60.	ND	NC	97.	NC	NC
37.65	440.	ND	7.0	1730.	1.13	8.0	61.	ND	NC	101.	NC	NC
37.80	445.	ND	6.4	1581.	1.28	17.1	119.	ND	NC	102.	NC	NC
37.95	442.	ND	6.6	1614.	1.37	22.5	160.	ND	NC	102.	NC	NC
38.1[illegible]	453.	ND	6.9	1706.	1.24	14.4	109.	ND	NC	104.	NC	NC
38.25	453.	ND	7.5	1833.	1.11	6.4	52.	ND	NC	104.	NC	NC
38.40	435.	ND	7.1	1743.	1.17	10.0	77.	ND	NC	100.	NC	NC
38.55	424.	ND	6.4	1566.	1.16	9.8	66.	ND	NC	98.	NC	NC
38.70	452.	ND	6.5	1593.	1.20	11.9	84.	ND	NC	104.	NC	NC
38.85	483.	ND	7.1	1742.	1.21	12.7	98.	ND	NC	111.	NC	NC
39.00	428.	ND	7.3	1805.	1.07	4.5	36.	ND	NC	98.	NC	NC
39.15	423.	ND	6.4	1571.	1.12	7.4	51.	ND	NC	97.	NC	NC
39.3[illegible]	454.	ND	6.4	1586.	1.24	14.7	103.	ND	NC	104.	NC	NC
39.45	462.	ND	6.6	1619.	1.36	21.8	156.	ND	NC	106.	NC	NC
39.60	443.	ND	6.9	1687.	1.20	12.2	91.	ND	NC	102.	NC	NC
39.75	438.	ND	7.1	1738.	1.09	5.2	40.	ND	NC	101.	NC	NC
39.90	457.	ND	6.7	1649.	1.21	12.8	93.	ND	NC	105.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	441.	ND	6.4	1561.	1.31	18.8	132.	ND	NC	102.	NC	NC
40.20	454.	ND	6.4	1581.	1.32	19.3	135.	ND	NC	104.	NC	NC
40.35	473.	ND	6.9	1689.	1.11	6.6	49.	ND	NC	109.	NC	NC
40.50	444.	ND	7.5	1843.	1.13	8.1	66.	ND	NC	102.	NC	NC
40.65	440.	ND	6.4	1563.	1.20	12.2	84.	ND	NC	101.	NC	NC
40.80	444.	ND	6.4	1573.	1.16	9.4	65.	ND	NC	102.	NC	NC
40.95	455.	ND	6.9	1696.	1.32	19.6	146.	ND	NC	105.	NC	NC
41.10	448.	ND	7.5	1834.	1.82	49.7	403.	ND	NC	103.	NC	NC
41.25	434.	ND	7.0	1724.	1.62	37.7	287.	ND	NC	100.	NC	NC
41.40	445.	ND	6.8	1683.	1.27	16.1	120.	ND	NC	102.	NC	NC
41.55	469.	ND	6.9	1691.	1.23	13.8	103.	ND	NC	108.	NC	NC
41.70	452.	ND	6.9	1699.	1.36	22.0	165.	ND	NC	104.	NC	NC
41.85	446.	ND	7.3	1806.	1.11	6.7	53.	ND	NC	103.	NC	NC
42.00	465.	ND	7.5	1845.	1.09	5.2	43.	ND	NC	107.	NC	NC
42.15	451.	ND	7.3	1794.	1.16	9.8	78.	ND	NC	104.	NC	NC
42.30	449.	ND	6.9	1707.	1.25	15.0	113.	ND	NC	103.	NC	NC
42.45	461.	ND	7.1	1751.	1.15	9.1	70.	ND	NC	106.	NC	NC
42.60	459.	ND	7.5	1836.	1.08	4.8	39.	ND	NC	106.	NC	NC
42.75	454.	ND	7.5	1837.	1.07	4.2	34.	ND	NC	104.	NC	NC
42.90	456.	ND	7.1	1745.	1.07	4.5	34.	ND	NC	105.	NC	NC
43.05	461.	ND	6.8	1666.	1.11	6.8	50.	ND	NC	106.	NC	NC
43.20	459.	ND	7.4	1824.	1.17	10.0	81.	ND	NC	105.	NC	NC
43.35	445.	ND	7.7	1882.	1.01	0.6	5.	ND	NC	102.	NC	NC
43.50	450.	ND	7.3	1791.	1.04	2.4	19.	ND	NC	103.	NC	NC
43.65	456.	ND	7.3	1799.	1.16	9.7	77.	ND	NC	105.	NC	NC
43.80	456.	ND	7.2	1762.	1.31	18.7	146.	ND	NC	105.	NC	NC
43.95	424.	ND	7.1	1736.	1.20	11.9	91.	ND	NC	97.	NC	NC
44.10	453.	ND	7.3	1800.	1.12	7.2	57.	ND	NC	104.	NC	NC
44.25	468.	ND	7.6	1863.	1.10	5.9	49.	ND	NC	108.	NC	NC
44.40	439.	ND	7.3	1792.	1.15	8.8	70.	ND	NC	101.	NC	NC
44.55	426.	ND	6.1	1508.	1.13	8.0	53.	ND	NC	98.	NC	NC
44.70	476.	ND	6.8	1681.	1.13	7.9	59.	ND	NC	109.	NC	NC
44.85	463.	ND	6.8	1662.	1.11	6.8	50.	ND	NC	107.	NC	NC
45.00	419.	ND	7.0	1732.	1.03	1.8	14.	ND	NC	96.	NC	NC
45.15	402.	ND	6.5	1617.	1.02	1.4	10.	ND	NC	93.	NC	NC
45.30	394.	ND	4.5	1115.	1.00	0.	0.	ND	NC	91.	NC	NC
45.45	384.	ND	3.9	947.	1.00	0.	0.	ND	NC	88.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 29 78
RUN NUMBER- 10
SEGMENT NUMBER- 3
WATER DEPTH- 8 TO 10 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.30
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	378.	ND	9.6	2373.	1.01	0.7	8.	ND	NC	87.	NC	NC
0.15	357.	ND	7.4	1826.	1.01	0.5	4.	ND	NC	82.	NC	NC
0.30	344.	ND	5.3	1301.	1.00	0.	0.	ND	NC	79.	NC	NC
0.45	349.	ND	5.5	1350.	1.00	0.	0.	ND	NC	80.	NC	NC
0.60	361.	ND	6.5	1587.	1.00	0.	0.	ND	NC	83.	NC	NC
0.75	365.	ND	7.3	1798.	1.00	0.	0.	ND	NC	84.	NC	NC
0.90	345.	ND	9.3	2280.	1.00	0.	0.	ND	NC	79.	NC	NC
1.05	347.	ND	8.9	2192.	1.00	0.	0.	ND	NC	80.	NC	NC
1.20	365.	ND	8.8	2166.	1.01	0.5	5.	ND	NC	84.	NC	NC
1.35	346.	ND	9.4	2308.	1.01	0.6	6.	ND	NC	80.	NC	NC
1.50	340.	ND	9.3	2282.	1.01	0.6	6.	ND	NC	78.	NC	NC
1.65	360.	ND	8.6	2111.	1.01	0.9	8.	ND	NC	83.	NC	NC
1.80	349.	ND	8.1	1991.	1.02	1.3	11.	ND	NC	80.	NC	NC
1.95	340.	ND	7.3	1801.	1.11	6.4	51.	ND	NC	78.	NC	NC
2.10	382.	ND	7.6	1860.	1.14	8.5	70.	ND	NC	88.	NC	NC
2.25	443.	ND	8.7	2129.	1.08	4.9	46.	ND	NC	102.	NC	NC
2.40	458.	ND	9.3	2297.	1.06	3.4	34.	ND	NC	105.	NC	NC
2.55	473.	ND	8.5	2091.	1.05	3.1	29.	ND	NC	109.	NC	NC
2.70	493.	ND	7.8	1913.	1.03	2.0	17.	ND	NC	113.	NC	NC
2.85	482.	ND	8.5	2102.	1.20	12.3	115.	ND	NC	111.	NC	NC
3.00	473.	ND	10.4	2548.	1.02	1.4	15.	ND	NC	109.	NC	NC
3.15	483.	ND	8.1	1990.	1.98	59.6	523.	ND	NC	111.	NC	NC
3.30	496.	ND	8.3	2037.	1.44	26.9	242.	ND	NC	114.	NC	NC
3.45	509.	ND	8.0	1969.	1.15	9.1	79.	ND	NC	117.	NC	NC
3.60	462.	ND	6.8	1682.	1.71	43.1	320.	ND	NC	106.	NC	NC
3.75	477.	ND	7.9	1954.	1.56	34.1	294.	ND	NC	110.	NC	NC
3.90	515.	ND	8.3	2040.	1.00	0.	0.	ND	NC	119.	NC	NC
4.05	449.	ND	7.0	1711.	1.00	0.	0.	ND	NC	103.	NC	NC
4.20	479.	ND	7.5	1850.	1.18	11.1	91.	ND	NC	110.	NC	NC
4.35	496.	ND	7.9	1933.	1.20	12.0	103.	ND	NC	114.	NC	NC
4.50	489.	ND	8.7	2150.	1.03	2.1	20.	ND	NC	112.	NC	NC
4.65	472.	ND	8.4	2074.	1.12	7.1	65.	ND	NC	109.	NC	NC
4.80	469.	ND	7.2	1773.	1.13	7.8	61.	ND	NC	108.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	504.	ND	7.3	1794.	1.40	24.4	193.	ND	NC	116.	NC	NC
5.10	479.	ND	7.3	1798.	1.30	18.2	144.	ND	NC	110.	NC	NC
5.25	466.	ND	9.2	2251.	1.07	4.1	41.	ND	NC	107.	NC	NC
5.40	496.	ND	7.7	1891.	1.06	3.4	28.	ND	NC	113.	NC	NC
5.55	498.	ND	7.1	1749.	1.34	20.7	160.	ND	NC	115.	NC	NC
5.70	483.	ND	7.1	1740.	1.59	35.8	275.	ND	NC	111.	NC	NC
5.85	486.	ND	7.9	1937.	1.16	9.7	83.	ND	NC	112.	NC	NC
6.00	493.	ND	8.4	2075.	1.07	4.0	37.	ND	NC	113.	NC	NC
6.15	493.	ND	8.1	2004.	1.13	7.8	69.	ND	NC	113.	NC	NC
6.30	456.	ND	6.6	1625.	1.14	8.3	60.	ND	NC	105.	NC	NC
6.45	476.	ND	6.8	1677.	1.30	17.9	132.	ND	NC	109.	NC	NC
6.60	498.	ND	7.5	1841.	1.33	20.0	162.	ND	NC	115.	NC	NC
6.75	488.	ND	9.4	2308.	1.06	3.7	38.	ND	NC	112.	NC	NC
6.90	449.	ND	7.9	1941.	1.20	12.1	104.	ND	NC	103.	NC	NC
7.05	467.	ND	7.3	1804.	1.12	7.4	59.	ND	NC	107.	NC	NC
7.20	480.	ND	7.1	1758.	1.52	31.8	247.	ND	NC	110.	NC	NC
7.35	472.	ND	7.6	1881.	1.27	16.3	135.	ND	NC	109.	NC	NC
7.50	481.	ND	8.7	2136.	1.12	7.3	69.	ND	NC	111.	NC	NC
7.65	488.	ND	7.3	1800.	1.15	9.1	72.	ND	NC	112.	NC	NC
7.80	477.	ND	7.0	1717.	1.31	18.5	140.	ND	NC	110.	NC	NC
7.95	487.	ND	6.9	1699.	1.49	29.8	223.	ND	NC	112.	NC	NC
8.10	495.	ND	7.3	1784.	1.15	9.4	74.	ND	NC	114.	NC	NC
8.25	489.	ND	9.1	2242.	1.09	5.5	54.	ND	NC	113.	NC	NC
8.40	464.	ND	7.3	1786.	1.19	11.3	89.	ND	NC	107.	NC	NC
8.55	473.	ND	7.0	1715.	1.14	8.3	63.	ND	NC	109.	NC	NC
8.70	491.	ND	7.2	1762.	1.29	17.4	135.	ND	NC	113.	NC	NC
8.85	507.	ND	7.9	1939.	1.09	5.5	47.	ND	NC	117.	NC	NC
9.00	482.	ND	8.7	2128.	1.14	8.3	78.	ND	NC	111.	NC	NC
9.15	469.	ND	7.1	1754.	1.25	15.0	116.	ND	NC	108.	NC	NC
9.30	507.	ND	7.2	1765.	1.61	37.1	289.	ND	NC	117.	NC	NC
9.45	492.	ND	6.6	1619.	1.74	44.7	320.	ND	NC	113.	NC	NC
9.60	473.	ND	8.4	2055.	1.13	7.6	69.	ND	NC	109.	NC	NC
9.75	481.	ND	8.0	1972.	1.04	2.4	21.	ND	NC	111.	NC	NC
9.90	493.	ND	7.7	1896.	1.17	10.2	86.	ND	NC	113.	NC	NC
10.05	480.	ND	7.2	1768.	1.38	23.2	181.	ND	NC	110.	NC	NC
10.20	496.	ND	6.7	1649.	1.34	20.6	150.	ND	NC	114.	NC	NC
10.35	508.	ND	7.0	1716.	1.09	5.6	43.	ND	NC	117.	NC	NC
10.50	479.	ND	8.5	2100.	1.12	7.5	59.	ND	NC	110.	NC	NC
10.65	470.	ND	7.5	1654.	1.12	7.2	59.	ND	NC	108.	NC	NC

RUN NUMBER- 17
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	495.	ND	7.0	1718.	1.09	5.6	43.	ND	NC	114.	NC	NC
10.95	510.	ND	6.7	1639.	1.36	21.7	157.	ND	NC	117.	NC	NC
11.10	490.	ND	8.4	2075.	1.12	7.2	66.	ND	NC	113.	NC	NC
11.25	478.	ND	8.1	1997.	1.09	5.6	50.	ND	NC	110.	NC	NC
11.40	491.	ND	8.0	1960.	1.08	4.9	43.	ND	NC	113.	NC	NC
11.55	515.	ND	8.1	1990.	1.35	21.3	197.	ND	NC	118.	NC	NC
11.70	488.	ND	7.0	1727.	1.31	18.5	141.	ND	NC	112.	NC	NC
11.85	465.	ND	7.5	1851.	1.10	6.0	49.	ND	NC	107.	NC	NC
12.00	498.	ND	7.8	1929.	1.10	5.9	50.	ND	NC	114.	NC	NC
12.15	485.	ND	7.4	1822.	1.14	8.7	70.	ND	NC	111.	NC	NC
12.30	478.	ND	6.7	1647.	1.27	16.1	117.	ND	NC	110.	NC	NC
12.45	502.	ND	6.8	1679.	1.22	13.1	97.	ND	NC	116.	NC	NC
12.60	494.	ND	7.7	1900.	1.11	6.6	55.	ND	NC	114.	NC	NC
12.75	476.	ND	8.1	2003.	1.16	9.4	84.	ND	NC	110.	NC	NC
12.90	471.	ND	7.4	1813.	1.15	9.2	74.	ND	NC	108.	NC	NC
13.05	519.	ND	7.3	1801.	1.20	12.2	97.	ND	NC	119.	NC	NC
13.20	479.	ND	7.5	1846.	1.20	11.8	96.	ND	NC	110.	NC	NC
13.35	477.	ND	8.2	2013.	1.13	7.7	68.	ND	NC	110.	NC	NC
13.50	487.	ND	7.8	1909.	1.09	5.5	47.	ND	NC	112.	NC	NC
13.65	492.	ND	7.9	1948.	1.15	9.0	77.	ND	NC	113.	NC	NC
13.80	486.	ND	7.5	1839.	1.33	20.0	162.	ND	NC	112.	NC	NC
13.95	479.	ND	7.3	1803.	1.20	11.9	94.	ND	NC	110.	NC	NC
14.10	478.	ND	7.7	1892.	1.11	6.5	54.	ND	NC	110.	NC	NC
14.25	502.	ND	8.4	2054.	1.12	7.5	68.	ND	NC	115.	NC	NC
14.40	487.	ND	7.2	1775.	1.25	15.3	120.	ND	NC	112.	NC	NC
14.55	480.	ND	7.1	1745.	1.21	12.7	98.	ND	NC	110.	NC	NC
14.70	509.	ND	7.5	1838.	1.12	7.6	61.	ND	NC	117.	NC	NC
14.85	491.	ND	8.5	2081.	1.11	6.5	60.	ND	NC	113.	NC	NC
15.00	478.	ND	7.7	1882.	1.19	11.4	95.	ND	NC	110.	NC	NC
15.15	504.	ND	7.1	1735.	1.14	8.6	66.	ND	NC	116.	NC	NC
15.30	494.	ND	7.1	1755.	1.27	16.2	126.	ND	NC	114.	NC	NC
15.45	479.	ND	7.5	1847.	1.19	11.7	95.	ND	NC	110.	NC	NC
15.60	480.	ND	8.1	1983.	1.07	4.1	36.	ND	NC	110.	NC	NC
15.75	503.	ND	7.3	1805.	1.13	7.6	60.	ND	NC	116.	NC	NC
15.90	479.	ND	6.9	1704.	1.32	19.4	146.	ND	NC	110.	NC	NC
16.05	482.	ND	6.7	1640.	1.38	22.7	165.	ND	NC	111.	NC	NC
16.20	492.	ND	7.4	1814.	1.20	12.2	97.	ND	NC	113.	NC	NC
16.35	487.	ND	8.7	2134.	1.08	5.0	47.	ND	NC	112.	NC	NC
16.50	472.	ND	6.8	1672.	1.26	15.8	117.	ND	NC	109.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	472.	ND	6.4	1582.	1.17	10.3	72.	ND	NC	108.	NC	NC
16.80	493.	ND	6.8	1667.	1.24	14.4	106.	ND	NC	113.	NC	NC
16.95	517.	ND	7.7	1905.	1.14	8.8	74.	ND	NC	119.	NC	NC
17.10	462.	ND	6.4	2055.	1.18	10.6	96.	ND	NC	106.	NC	NC
17.25	462.	ND	7.1	1748.	1.14	8.6	67.	ND	NC	106.	NC	NC
17.40	502.	ND	7.3	1797.	1.24	14.5	115.	ND	NC	116.	NC	NC
17.55	479.	ND	6.8	1682.	1.44	26.9	200.	ND	NC	110.	NC	NC
17.70	470.	ND	7.8	1930.	1.14	8.5	72.	ND	NC	108.	NC	NC
17.85	487.	ND	8.1	1981.	1.04	2.6	23.	ND	NC	112.	NC	NC
18.00	487.	ND	7.8	1928.	1.20	11.9	102.	ND	NC	112.	NC	NC
18.15	478.	ND	7.3	1791.	1.38	23.2	184.	ND	NC	110.	NC	NC
18.30	486.	ND	6.9	1794.	1.28	17.0	128.	ND	NC	112.	NC	NC
18.45	493.	ND	8.0	1968.	1.10	5.9	51.	ND	NC	113.	NC	NC
18.60	463.	ND	8.7	2151.	1.12	7.2	68.	ND	NC	106.	NC	NC
18.75	471.	ND	7.6	1859.	1.13	7.8	64.	ND	NC	108.	NC	NC
18.90	490.	ND	7.2	1762.	1.15	9.0	70.	ND	NC	113.	NC	NC
19.05	501.	ND	7.0	1720.	1.26	15.7	119.	ND	NC	115.	NC	NC
19.20	473.	ND	8.2	2012.	1.12	7.3	65.	ND	NC	109.	NC	NC
19.35	467.	ND	8.1	1985.	1.10	6.2	54.	ND	NC	107.	NC	NC
19.50	490.	ND	7.7	1904.	1.10	6.0	51.	ND	NC	113.	NC	NC
19.65	494.	ND	7.7	1883.	1.24	14.3	119.	ND	NC	114.	NC	NC
19.80	474.	ND	7.3	1807.	1.23	13.7	109.	ND	NC	109.	NC	NC
19.95	479.	ND	8.0	1979.	1.09	5.2	45.	ND	NC	110.	NC	NC
20.10	503.	ND	6.4	2063.	1.08	5.0	46.	ND	NC	116.	NC	NC
20.25	489.	ND	8.2	2028.	1.15	9.0	81.	ND	NC	113.	NC	NC
20.40	475.	ND	7.3	1804.	1.24	14.4	115.	ND	NC	109.	NC	NC
20.55	492.	ND	7.5	1838.	1.15	8.9	72.	ND	NC	113.	NC	NC
20.70	481.	ND	9.1	2248.	1.09	5.2	52.	ND	NC	111.	NC	NC
20.85	468.	ND	8.2	2017.	1.11	6.8	61.	ND	NC	108.	NC	NC
21.00	472.	ND	7.5	1855.	1.08	4.7	38.	ND	NC	109.	NC	NC
21.15	497.	ND	7.4	1813.	1.19	11.4	91.	ND	NC	114.	NC	NC
21.30	473.	ND	8.1	1982.	1.18	10.6	93.	ND	NC	109.	NC	NC
21.45	475.	ND	8.5	2095.	1.10	6.2	57.	ND	NC	109.	NC	NC
21.60	384.	ND	7.7	1887.	1.07	4.5	37.	ND	NC	88.	NC	NC
21.75	385.	ND	7.1	1741.	1.07	4.3	33.	ND	NC	89.	NC	NC
21.90	409.	ND	6.3	1547.	1.23	14.2	97.	ND	NC	94.	NC	NC
22.05	414.	ND	6.3	1557.	1.17	10.3	71.	ND	NC	95.	NC	NC
22.20	418.	ND	6.9	1708.	1.13	7.9	59.	ND	NC	96.	NC	NC
22.35	397.	ND	7.1	1756.	1.11	7.0	54.	ND	NC	91.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	352.	ND	6.0	1488.	1.10	6.0	40.	ND	NC	81.	NC	NC
22.65	383.	ND	5.6	1366.	1.16	9.9	60.	ND	NC	88.	NC	NC
22.80	403.	ND	5.5	1357.	1.22	13.3	80.	ND	NC	93.	NC	NC
22.95	386.	ND	5.9	1452.	1.16	9.5	61.	ND	NC	89.	NC	NC
23.10	348.	ND	5.9	1448.	1.09	5.6	36.	ND	NC	80.	NC	NC
23.25	356.	ND	5.9	1452.	1.14	8.4	54.	ND	NC	82.	NC	NC
23.40	360.	ND	5.7	1396.	1.30	17.9	110.	ND	NC	83.	NC	NC
23.55	358.	ND	5.5	1352.	1.21	12.8	77.	ND	NC	82.	NC	NC
23.70	355.	ND	5.6	1380.	1.13	8.1	49.	ND	NC	82.	NC	NC
23.85	363.	ND	5.7	1406.	1.12	7.5	47.	ND	NC	83.	NC	NC
24.00	326.	ND	5.5	1350.	1.17	10.0	60.	ND	NC	75.	NC	NC
24.15	204.	ND	5.0	1221.	1.19	11.3	61.	ND	NC	47.	NC	NC
24.30	127.	ND	4.1	1016.	1.18	11.0	49.	ND	NC	29.	NC	NC
24.45	130.	ND	2.9	709.	1.05	3.3	10.	ND	NC	30.	NC	NC
24.60	142.	ND	2.0	503.	1.03	1.6	3.	ND	NC	33.	NC	NC
24.75	176.	ND	3.1	755.	1.03	1.9	6.	ND	NC	41.	NC	NC
24.90	226.	ND	4.0	983.	1.04	2.3	10.	ND	NC	52.	NC	NC
25.05	254.	ND	4.4	1093.	1.20	12.4	60.	ND	NC	58.	NC	NC
25.20	258.	ND	4.2	1042.	1.17	10.1	47.	ND	NC	59.	NC	NC
25.35	259.	ND	4.7	1159.	1.20	12.3	63.	ND	NC	60.	NC	NC
25.50	278.	ND	4.9	1207.	1.22	13.5	72.	ND	NC	64.	NC	NC
25.65	300.	ND	4.9	1197.	1.21	12.7	67.	ND	NC	69.	NC	NC
25.80	309.	ND	4.9	1204.	1.21	12.9	69.	ND	NC	71.	NC	NC
25.95	319.	ND	5.0	1234.	1.11	6.8	37.	ND	NC	73.	NC	NC
26.10	333.	ND	5.3	1300.	1.13	7.9	45.	ND	NC	77.	NC	NC
26.25	341.	ND	5.4	1333.	1.13	7.8	46.	ND	NC	79.	NC	NC
26.40	343.	ND	5.9	1443.	1.59	36.1	230.	ND	NC	79.	NC	NC
26.55	363.	ND	6.6	1626.	1.29	17.8	128.	ND	NC	83.	NC	NC
26.70	414.	ND	7.0	1714.	1.10	6.2	47.	ND	NC	95.	NC	NC
26.85	509.	ND	7.3	1797.	1.08	4.9	39.	ND	NC	117.	NC	NC
27.00	507.	ND	8.1	2003.	1.10	5.9	52.	ND	NC	117.	NC	NC
27.15	517.	ND	10.0	2470.	1.06	3.8	41.	ND	NC	119.	NC	NC
27.30	515.	ND	10.4	2554.	1.04	2.3	25.	ND	NC	118.	NC	NC
27.45	506.	ND	9.3	2285.	1.04	2.3	23.	ND	NC	116.	NC	NC
27.60	516.	ND	9.4	2317.	1.05	2.9	30.	ND	NC	119.	NC	NC
27.75	522.	ND	10.1	2476.	1.07	4.1	45.	ND	NC	120.	NC	NC
27.90	519.	ND	10.5	2575.	1.06	3.7	42.	ND	NC	119.	NC	NC
28.05	512.	ND	9.8	2420.	1.02	1.3	14.	ND	NC	118.	NC	NC
28.20	509.	ND	9.7	2384.	1.02	1.3	13.	ND	NC	117.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	519.	ND	9.9	2446.	1.06	3.4	36.	ND	NC	119.	NC	NC
28.50	509.	ND	9.3	2295.	1.06	3.7	38.	ND	NC	117.	NC	NC
28.65	496.	ND	9.9	2427.	1.02	1.1	12.	ND	NC	114.	NC	NC
28.80	516.	ND	10.2	2520.	1.04	2.3	25.	ND	NC	119.	NC	NC
28.95	522.	ND	9.6	2365.	1.07	4.4	46.	ND	NC	120.	NC	NC
29.10	509.	ND	9.1	2232.	1.05	3.2	31.	ND	NC	117.	NC	NC
29.25	515.	ND	9.7	2390.	1.06	3.5	37.	ND	NC	119.	NC	NC
29.40	516.	ND	10.4	2564.	1.05	2.9	33.	ND	NC	119.	NC	NC
29.55	515.	ND	9.8	2417.	1.05	2.9	31.	ND	NC	119.	NC	NC
29.70	519.	ND	8.7	2133.	1.06	3.7	35.	ND	NC	119.	NC	NC
29.85	529.	ND	9.1	2241.	1.10	6.3	62.	ND	NC	122.	NC	NC
30.00	525.	ND	9.0	2215.	1.13	7.6	75.	ND	NC	121.	NC	NC
30.15	514.	ND	9.4	2319.	1.04	2.7	28.	ND	NC	118.	NC	NC
30.30	509.	ND	9.5	2328.	1.03	1.5	16.	ND	NC	117.	NC	NC
30.45	514.	ND	9.3	2286.	1.12	7.0	70.	ND	NC	118.	NC	NC
30.60	522.	ND	8.5	2089.	1.15	9.0	83.	ND	NC	120.	NC	NC
30.75	514.	NC	8.2	2018.	1.11	6.4	57.	ND	NC	118.	NC	NC
30.90	505.	ND	9.3	2286.	1.07	4.1	42.	ND	NC	116.	NC	NC
31.05	515.	ND	9.8	2422.	1.05	3.2	34.	ND	NC	118.	NC	NC
31.20	517.	ND	7.8	1927.	1.16	9.6	81.	ND	NC	119.	NC	NC
31.35	504.	ND	7.7	1894.	1.12	7.1	60.	ND	NC	116.	NC	NC
31.50	516.	ND	8.0	1968.	1.19	11.4	99.	ND	NC	119.	NC	NC
31.65	521.	ND	8.5	2088.	1.13	8.1	75.	ND	NC	120.	NC	NC
31.80	509.	ND	8.5	2090.	1.06	3.8	35.	ND	NC	117.	NC	NC
31.95	516.	ND	8.3	2036.	1.16	9.5	85.	ND	NC	119.	NC	NC
32.10	528.	ND	8.1	1997.	1.22	13.2	116.	ND	NC	121.	NC	NC
32.25	526.	ND	8.1	1997.	1.16	9.8	87.	ND	NC	120.	NC	NC
32.40	511.	ND	8.4	2058.	1.08	5.1	46.	ND	NC	117.	NC	NC
32.55	531.	ND	9.1	2248.	1.10	6.3	62.	ND	NC	122.	NC	NC
32.70	526.	ND	7.8	1908.	1.19	11.6	98.	ND	NC	121.	NC	NC
32.85	517.	ND	7.2	1776.	1.19	11.5	90.	ND	NC	119.	NC	NC
33.00	519.	ND	7.7	1885.	1.18	11.0	92.	ND	NC	119.	NC	NC
33.15	519.	ND	8.5	2080.	1.09	5.6	51.	ND	NC	119.	NC	NC
33.30	517.	ND	8.3	2045.	1.17	10.3	93.	ND	NC	119.	NC	NC
33.45	521.	ND	7.6	1865.	1.15	9.0	74.	ND	NC	120.	NC	NC
33.60	513.	ND	7.8	1919.	1.22	13.1	111.	ND	NC	118.	NC	NC
33.75	531.	ND	7.8	1918.	1.27	16.4	138.	ND	NC	122.	NC	NC
33.90	532.	ND	8.5	2101.	1.09	5.5	51.	ND	NC	122.	NC	NC
34.05	513.	ND	8.2	2013.	1.08	4.7	41.	ND	NC	118.	NC	NC

RUN NUMBER- 10
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	541.	ND	7.8	1906.	1.22	13.4	113.	ND	NC	124.	NC	NC
34.35	521.	ND	7.1	1747.	1.43	25.8	199.	ND	NC	120.	NC	NC
34.5[illegible]	512.	ND	7.5	1838.	1.21	12.6	102.	ND	NC	118.	NC	NC
34.65	507.	ND	8.7	2146.	1.09	5.6	53.	ND	NC	117.	NC	NC
34.8[illegible]	532.	ND	8.2	2014.	1.21	12.4	111.	ND	NC	122.	NC	NC
34.95	524.	ND	7.1	1757.	1.17	10.3	80.	ND	NC	120.	NC	NC
35.1[illegible]	527.	ND	7.2	1762.	1.17	10.6	82.	ND	NC	121.	NC	NC
35.25	537.	ND	7.4	1826.	1.28	16.9	136.	ND	NC	123.	NC	NC
35.40	533.	ND	8.3	2045.	1.13	7.7	69.	ND	NC	123.	NC	NC
35.55	518.	ND	7.1	1736.	1.15	9.0	69.	ND	NC	119.	NC	NC
35.70	523.	ND	6.9	1694.	1.16	9.8	73.	ND	NC	120.	NC	NC
35.85	537.	ND	7.2	1781.	1.66	40.1	315.	ND	NC	123.	NC	NC
36.[illegible]	532.	ND	7.3	1790.	1.15	8.9	70.	ND	NC	122.	NC	NC
36.15	514.	ND	7.7	1882.	1.03	2.0	17.	ND	NC	118.	NC	NC
36.30	511.	ND	7.6	1879.	1.14	8.3	69.	ND	NC	117.	NC	NC
36.45	545.	ND	6.1	1494.	1.21	12.9	85.	ND	NC	125.	NC	NC
36.6[illegible]	540.	ND	6.6	1611.	1.22	13.6	97.	ND	NC	124.	NC	NC
36.75	530.	ND	7.0	1722.	1.16	9.5	73.	ND	NC	122.	NC	NC
36.90	531.	ND	8.5	2095.	1.07	3.9	37.	ND	NC	122.	NC	NC
37.05	537.	ND	7.9	1730.	1.23	14.0	107.	ND	NC	123.	NC	NC
37.20	537.	ND	6.7	1659.	1.12	7.3	54.	ND	NC	124.	NC	NC
37.35	534.	ND	7.0	1716.	1.33	19.8	150.	ND	NC	123.	NC	NC
37.50	542.	ND	7.8	1923.	1.06	3.8	32.	ND	NC	125.	NC	NC
37.65	541.	ND	7.6	1862.	1.04	2.6	22.	ND	NC	124.	NC	NC
37.80	512.	ND	7.3	1801.	1.11	6.5	52.	ND	NC	118.	NC	NC
37.95	531.	ND	7.1	1744.	1.24	14.7	113.	ND	NC	122.	NC	NC
38.10	535.	ND	6.9	1704.	1.28	16.9	127.	ND	NC	123.	NC	NC
38.25	520.	ND	7.6	1858.	1.15	9.4	77.	ND	NC	120.	NC	NC
38.40	518.	ND	8.4	2058.	1.08	5.1	47.	ND	NC	119.	NC	NC
38.55	524.	ND	8.3	2043.	1.18	10.9	98.	ND	NC	120.	NC	NC
38.70	535.	ND	6.7	1647.	1.05	3.3	24.	ND	NC	123.	NC	NC
38.85	522.	ND	7.6	1867.	1.01	0.7	6.	ND	NC	120.	NC	NC
39.00	516.	ND	8.3	2048.	1.04	2.7	24.	ND	NC	119.	NC	NC
39.15	531.	ND	8.5	2097.	1.06	3.9	36.	ND	NC	122.	NC	NC
39.30	528.	ND	7.2	1763.	1.09	5.7	44.	ND	NC	122.	NC	NC
39.45	513.	ND	7.8	1926.	1.14	8.3	71.	ND	NC	118.	NC	NC
39.60	538.	ND	8.6	2116.	1.10	6.3	59.	ND	NC	124.	NC	NC
39.75	531.	ND	8.0	1959.	1.01	0.5	4.	ND	NC	122.	NC	NC
39.90	524.	ND	7.9	1931.	1.00	0.	0.	ND	NC	120.	NC	NC

RUN NUMBER- 1
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	522.	ND	8.1	1985.	1.00	0.	0.	ND	NC	120.	NC	NC
40.20	523.	ND	8.1	1994.	1.05	3.3	29.	ND	NC	120.	NC	NC
40.35	508.	ND	8.3	2041.	1.07	4.1	37.	ND	NC	117.	NC	NC
40.50	501.	ND	9.0	2202.	1.06	3.4	33.	ND	NC	115.	NC	NC
40.65	531.	ND	9.2	2270.	1.06	3.9	39.	ND	NC	122.	NC	NC
40.80	533.	ND	9.0	2217.	1.08	4.9	47.	ND	NC	122.	NC	NC
40.95	518.	ND	8.4	2068.	1.08	4.6	42.	ND	NC	119.	NC	NC
41.10	519.	ND	8.9	2179.	1.07	4.1	40.	ND	NC	119.	NC	NC
41.25	524.	ND	9.3	2280.	1.00	0.	0.	ND	NC	120.	NC	NC
41.40	525.	ND	8.9	2199.	1.02	1.0	9.	ND	NC	121.	NC	NC
41.55	518.	ND	8.5	2085.	1.02	1.2	11.	ND	NC	119.	NC	NC
41.70	521.	ND	8.8	2166.	1.05	3.3	32.	ND	NC	120.	NC	NC
41.85	525.	ND	9.4	2322.	1.08	4.7	48.	ND	NC	121.	NC	NC
42.00	527.	ND	9.6	2367.	1.05	3.0	31.	ND	NC	121.	NC	NC
42.15	507.	ND	8.9	2196.	1.04	2.6	25.	ND	NC	117.	NC	NC
42.30	518.	ND	9.8	2400.	1.08	5.1	54.	ND	NC	119.	NC	NC
42.45	533.	ND	9.5	2327.	1.09	5.4	55.	ND	NC	123.	NC	NC
42.60	539.	ND	9.6	2354.	1.05	2.8	29.	ND	NC	124.	NC	NC
42.75	512.	ND	9.8	2420.	1.04	2.4	25.	ND	NC	118.	NC	NC
42.90	523.	ND	9.5	2337.	1.08	4.7	48.	ND	NC	120.	NC	NC
43.05	523.	ND	9.0	2203.	1.08	4.7	45.	ND	NC	120.	NC	NC
43.20	512.	ND	8.7	2146.	1.08	4.6	44.	ND	NC	118.	NC	NC
43.35	510.	ND	9.4	2305.	1.06	3.7	38.	ND	NC	117.	NC	NC
43.50	520.	ND	9.9	2426.	1.05	2.8	30.	ND	NC	120.	NC	NC
43.65	512.	ND	9.0	2204.	1.06	3.4	33.	ND	NC	118.	NC	NC
43.80	520.	ND	9.1	2227.	1.05	3.2	32.	ND	NC	120.	NC	NC
43.95	523.	ND	9.4	2316.	1.13	7.8	79.	ND	NC	120.	NC	NC
44.10	533.	ND	9.7	2390.	1.07	4.0	42.	ND	NC	123.	NC	NC
44.25	515.	ND	9.2	2266.	1.03	1.9	19.	ND	NC	118.	NC	NC
44.40	511.	ND	9.2	2263.	1.06	3.7	37.	ND	NC	118.	NC	NC
44.55	519.	ND	9.4	2309.	1.11	6.8	69.	ND	NC	119.	NC	NC
44.70	511.	ND	8.9	2183.	1.08	4.8	46.	ND	NC	117.	NC	NC
44.85	490.	ND	9.6	2358.	1.04	2.4	25.	ND	NC	113.	NC	NC
45.00	496.	ND	10.0	2453.	1.04	2.7	29.	ND	NC	114.	NC	NC
45.15	509.	ND	9.3	2291.	1.08	4.7	48.	ND	NC	117.	NC	NC
45.30	508.	ND	8.8	2156.	1.06	3.5	34.	ND	NC	117.	NC	NC
45.45	508.	ND	9.0	2209.	1.11	6.6	64.	ND	NC	117.	NC	NC
45.60	513.	ND	9.9	2438.	1.04	2.4	26.	ND	NC	118.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 30 78
RUN NUMBER- 11
SEGMENT NUMBER- 1
WATER DEPTH- 14 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	553.	ND	8.6	2118.	1.14	8.3	77.	ND	NC	127.	NC	NC
0.15	551.	ND	9.4	2319.	1.06	3.5	36.	ND	NC	126.	NC	NC
0.30	561.	ND	10.4	2550.	1.03	2.1	24.	ND	NC	129.	NC	NC
0.45	559.	ND	10.2	2509.	1.02	1.5	16.	ND	NC	129.	NC	NC
0.60	559.	ND	9.6	2364.	1.01	0.5	5.	ND	NC	129.	NC	NC
0.75	568.	ND	9.3	2276.	1.16	9.8	99.	ND	NC	131.	NC	NC
0.90	566.	ND	9.8	2418.	1.04	2.5	26.	ND	NC	130.	NC	NC
1.05	555.	ND	10.2	2508.	1.03	1.9	21.	ND	NC	128.	NC	NC
1.20	558.	ND	10.4	2554.	1.02	1.1	12.	ND	NC	128.	NC	NC
1.35	576.	ND	10.4	2562.	1.01	0.5	6.	ND	NC	132.	NC	NC
1.50	563.	ND	9.2	2263.	1.01	0.8	8.	ND	NC	129.	NC	NC
1.65	547.	ND	9.7	2397.	1.03	1.5	16.	ND	NC	126.	NC	NC
1.80	561.	ND	10.3	2537.	1.05	2.8	31.	ND	NC	129.	NC	NC
1.95	563.	ND	10.2	2499.	1.04	2.5	28.	ND	NC	129.	NC	NC
2.10	551.	ND	9.2	2265.	1.03	1.6	16.	ND	NC	127.	NC	NC
2.25	562.	ND	8.9	2199.	1.02	1.2	12.	ND	NC	129.	NC	NC
2.40	571.	ND	9.8	2405.	1.06	3.9	41.	ND	NC	131.	NC	NC
2.55	573.	ND	10.2	2509.	1.03	1.6	18.	ND	NC	132.	NC	NC
2.70	561.	ND	10.1	2486.	1.03	2.0	22.	ND	NC	129.	NC	NC
2.85	598.	ND	10.1	2481.	1.13	8.1	89.	ND	NC	138.	NC	NC
3.00	582.	ND	8.6	2122.	1.16	9.9	93.	ND	NC	134.	NC	NC
3.15	553.	ND	9.3	2289.	1.06	3.4	34.	ND	NC	127.	NC	NC
3.30	569.	ND	10.1	2491.	1.05	3.0	33.	ND	NC	131.	NC	NC
3.45	573.	ND	10.4	2553.	1.04	2.6	30.	ND	NC	132.	NC	NC
3.60	566.	ND	9.2	2265.	1.04	2.3	23.	ND	NC	130.	NC	NC
3.75	573.	ND	8.3	2044.	1.01	0.6	5.	ND	NC	132.	NC	NC
3.90	582.	ND	9.0	2204.	1.02	1.0	10.	ND	NC	134.	NC	NC
4.05	576.	ND	9.5	2344.	1.04	2.6	27.	ND	NC	132.	NC	NC
4.20	557.	ND	9.0	2225.	1.07	4.1	41.	ND	NC	128.	NC	NC
4.35	601.	ND	9.0	2211.	1.08	5.1	49.	ND	NC	138.	NC	NC
4.50	623.	ND	6.4	1582.	1.09	5.3	37.	ND	NC	143.	NC	NC
4.65	608.	ND	6.2	1513.	1.10	5.8	39.	ND	NC	140.	NC	NC
4.80	599.	ND	8.4	2071.	1.07	4.0	37.	ND	NC	138.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	612.	ND	8.8	2155.	1.21	12.5	119.	ND	NC	141.	NC	NC
5.10	605.	ND	7.7	1893.	1.11	6.7	56.	ND	NC	139.	NC	NC
5.25	600.	ND	7.1	1740.	1.07	4.3	33.	ND	NC	138.	NC	NC
5.40	638.	ND	6.9	1768.	1.05	2.9	22.	ND	NC	147.	NC	NC
5.55	588.	ND	8.9	2183.	1.05	1.5	15.	ND	NC	135.	NC	NC
5.70	566.	ND	8.9	2195.	1.03	2.1	20.	ND	NC	130.	NC	NC
5.85	612.	ND	9.4	2072.	1.10	5.8	53.	ND	NC	141.	NC	NC
6.00	635.	ND	9.5	1604.	1.41	24.7	175.	ND	NC	146.	NC	NC
6.15	623.	ND	5.7	1413.	1.13	8.0	50.	ND	NC	143.	NC	NC
6.30	603.	ND	7.5	1842.	1.27	16.2	131.	ND	NC	139.	NC	NC
6.45	615.	ND	8.1	1989.	1.45	27.1	238.	ND	NC	141.	NC	NC
6.60	615.	ND	7.0	1710.	1.29	17.6	133.	ND	NC	141.	NC	NC
6.75	598.	ND	7.6	1879.	1.17	10.2	85.	ND	NC	138.	NC	NC
6.90	626.	ND	5.9	1700.	1.13	7.9	59.	ND	NC	144.	NC	NC
7.05	616.	ND	5.5	1599.	1.09	5.5	39.	ND	NC	142.	NC	NC
7.20	587.	ND	6.1	1499.	1.15	9.0	59.	ND	NC	135.	NC	NC
7.35	591.	ND	5.7	1399.	1.31	18.9	117.	ND	NC	136.	NC	NC
7.50	646.	ND	7.5	1849.	1.44	26.4	216.	ND	NC	149.	NC	NC
7.65	652.	ND	5.9	1699.	1.04	2.6	20.	ND	NC	150.	NC	NC
7.80	662.	ND	4.4	1082.	1.24	14.6	70.	ND	NC	152.	NC	NC
7.95	690.	ND	4.4	1092.	1.33	20.1	97.	ND	NC	159.	NC	NC
8.10	658.	ND	4.8	1171.	1.37	22.5	116.	ND	NC	151.	NC	NC
8.25	625.	ND	5.9	1443.	1.40	24.1	153.	ND	NC	144.	NC	NC
8.40	632.	ND	5.6	1634.	1.51	31.0	224.	ND	NC	145.	NC	NC
8.55	625.	ND	5.2	1533.	1.67	40.6	275.	ND	NC	144.	NC	NC
8.70	603.	ND	6.6	1615.	1.27	16.2	115.	ND	NC	139.	NC	NC
8.85	591.	ND	6.6	1631.	1.47	28.7	207.	ND	NC	136.	NC	NC
9.00	634.	ND	5.9	1689.	1.54	32.7	244.	ND	NC	146.	NC	NC
9.15	616.	ND	6.6	1631.	1.25	15.3	110.	ND	NC	142.	NC	NC
9.30	608.	ND	6.9	1708.	1.31	18.9	142.	ND	NC	140.	NC	NC
9.45	623.	ND	7.2	1769.	1.43	26.1	204.	ND	NC	143.	NC	NC
9.60	620.	ND	6.4	1581.	1.46	27.8	194.	ND	NC	143.	NC	NC
9.75	605.	ND	6.3	1560.	1.30	18.0	124.	ND	NC	139.	NC	NC
9.90	629.	ND	7.4	1810.	1.30	18.4	147.	ND	NC	145.	NC	NC
10.05	635.	ND	7.2	1770.	1.28	17.0	133.	ND	NC	146.	NC	NC
10.20	611.	ND	6.2	1535.	1.29	17.7	120.	ND	NC	141.	NC	NC
10.35	614.	ND	7.0	1721.	1.27	16.3	124.	ND	NC	141.	NC	NC
10.50	633.	ND	6.9	1692.	1.57	34.7	259.	ND	NC	146.	NC	NC
10.65	641.	ND	6.6	1616.	1.44	26.8	191.	ND	NC	147.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	610.	ND	5.6	1628.	1.31	18.7	134.	ND	NC	140.	NC	NC
10.95	632.	ND	5.7	1641.	1.33	20.1	146.	ND	NC	145.	NC	NC
11.10	619.	ND	6.3	1554.	1.31	18.9	130.	ND	NC	142.	NC	NC
11.25	597.	ND	5.0	1487.	1.21	12.4	82.	ND	NC	137.	NC	NC
11.40	611.	ND	5.3	1553.	1.3[illegible]	18.4	126.	ND	NC	140.	NC	NC
11.55	630.	ND	5.4	1566.	1.20	12.0	83.	ND	NC	145.	NC	NC
11.70	630.	ND	6.4	1564.	1.28	17.1	118.	ND	NC	145.	NC	NC
11.85	606.	ND	5.5	1604.	1.29	17.6	125.	ND	NC	139.	NC	NC
12.00	643.	ND	5.6	1621.	1.41	25.1	180.	ND	NC	148.	NC	NC
12.15	641.	ND	5.6	1620.	1.54	32.8	235.	ND	NC	147.	NC	NC
12.30	602.	ND	5.6	1620.	1.39	23.9	171.	ND	NC	139.	NC	NC
12.45	603.	ND	5.5	1591.	1.36	21.5	151.	ND	NC	139.	NC	NC
12.60	622.	ND	6.2	1525.	1.49	29.7	200.	ND	NC	143.	NC	NC
12.75	611.	ND	6.1	1493.	1.32	19.5	129.	ND	NC	141.	NC	NC
12.90	625.	ND	6.2	1525.	1.25	15.3	103.	ND	NC	144.	NC	NC
13.05	652.	ND	5.8	1430.	1.11	6.9	44.	ND	NC	150.	NC	NC
13.20	646.	ND	5.1	1255.	1.02	1.2	7.	ND	NC	149.	NC	NC
13.35	601.	ND	5.3	1305.	1.13	8.1	47.	ND	NC	138.	NC	NC
13.50	616.	ND	5.1	1248.	1.35	21.2	117.	ND	NC	142.	NC	NC
13.65	646.	ND	8.2	2011.	1.43	26.0	231.	ND	NC	149.	NC	NC
13.80	643.	ND	4.6	1141.	1.01	0.4	2.	ND	NC	148.	NC	NC
13.95	639.	ND	4.6	1143.	1.04	2.1	11.	ND	NC	147.	NC	NC
14.10	643.	ND	4.5	1096.	1.07	4.5	22.	ND	NC	148.	NC	NC
14.25	647.	ND	5.6	1371.	1.06	3.5	21.	ND	NC	149.	NC	NC
14.40	621.	ND	6.8	1676.	1.02	1.5	11.	ND	NC	143.	NC	NC
14.55	630.	ND	5.2	1279.	1.01	0.7	4.	ND	NC	145.	NC	NC
14.70	659.	ND	4.7	1151.	1.05	3.0	15.	ND	NC	151.	NC	NC
14.85	619.	ND	5.2	1289.	1.13	7.7	44.	ND	NC	142.	NC	NC
15.00	628.	ND	5.2	1280.	1.13	8.1	46.	ND	NC	144.	NC	NC
15.15	644.	ND	6.7	1651.	1.26	15.5	113.	ND	NC	148.	NC	NC
15.30	625.	ND	4.4	1093.	1.00	0.	0.	ND	NC	144.	NC	NC
15.45	602.	ND	5.8	1429.	1.00	0.	0.	ND	NC	138.	NC	NC
15.60	623.	ND	6.2	1537.	1.10	5.8	39.	ND	NC	143.	NC	NC
15.75	622.	ND	5.9	1696.	1.06	3.8	28.	ND	NC	143.	NC	NC
15.90	591.	ND	7.9	1932.	1.21	13.0	111.	ND	NC	136.	NC	NC
16.05	587.	ND	8.9	2186.	1.12	7.5	72.	ND	NC	135.	NC	NC
16.20	601.	ND	9.6	2362.	1.04	2.3	24.	ND	NC	138.	NC	NC
16.35	596.	ND	7.5	1833.	1.07	4.3	35.	ND	NC	137.	NC	NC
16.50	587.	ND	8.2	2027.	1.05	2.7	24.	ND	NC	135.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	610.	ND	8.7	2151.	1.03	2.0	19.	ND	NC	140.	NC	NC
16.80	615.	ND	8.5	2080.	1.02	1.2	11.	ND	NC	141.	NC	NC
16.95	575.	ND	8.5	2089.	1.01	0.5	4.	ND	NC	132.	NC	NC
17.10	596.	ND	7.4	1815.	1.10	6.0	48.	ND	NC	137.	NC	NC
17.25	615.	ND	8.2	2025.	1.17	10.4	93.	ND	NC	142.	NC	NC
17.40	597.	ND	8.9	2178.	1.10	5.8	56.	ND	NC	137.	NC	NC
17.55	590.	ND	5.7	1401.	1.00	0.	0.	ND	NC	136.	NC	NC
17.70	609.	ND	7.1	1739.	1.00	0.	0.	ND	NC	140.	NC	NC
17.85	596.	ND	8.2	2009.	1.01	0.6	5.	ND	NC	137.	NC	NC
18.00	586.	ND	7.9	1940.	1.07	4.3	37.	ND	NC	135.	NC	NC
18.15	592.	ND	8.4	2062.	1.17	10.2	93.	ND	NC	136.	NC	NC
18.30	633.	ND	7.1	1736.	1.05	2.8	22.	ND	NC	146.	NC	NC
18.45	603.	ND	7.7	1885.	1.00	0.	0.	ND	NC	139.	NC	NC
18.60	569.	ND	8.2	2015.	1.07	4.2	38.	ND	NC	131.	NC	NC
18.75	614.	ND	8.0	1979.	1.16	9.9	87.	ND	NC	141.	NC	NC
18.90	633.	ND	10.5	2582.	1.26	15.9	181.	ND	NC	146.	NC	NC
19.05	615.	ND	7.1	1740.	1.02	1.2	9.	ND	NC	141.	NC	NC
19.20	639.	ND	5.8	1430.	1.05	3.3	21.	ND	NC	147.	NC	NC
19.35	629.	ND	5.9	1462.	1.14	8.3	54.	ND	NC	145.	NC	NC
19.50	603.	ND	7.0	1718.	1.08	5.1	38.	ND	NC	139.	NC	NC
19.65	613.	ND	7.1	1737.	1.04	2.4	18.	ND	NC	141.	NC	NC
19.80	638.	ND	5.4	1340.	1.01	0.5	3.	ND	NC	147.	NC	NC
19.95	620.	ND	5.1	1256.	1.00	0.	0.	ND	NC	143.	NC	NC
20.10	579.	ND	6.7	1648.	1.04	2.2	16.	ND	NC	133.	NC	NC
20.25	613.	ND	7.5	1835.	1.13	7.9	64.	ND	NC	141.	NC	NC
20.40	633.	ND	11.7	2886.	1.15	9.2	117.	ND	NC	146.	NC	NC
20.55	611.	ND	6.2	1523.	1.00	0.	0.	ND	NC	140.	NC	NC
20.70	620.	ND	5.8	1420.	1.00	0.	0.	ND	NC	143.	NC	NC
20.85	631.	ND	5.7	1404.	1.00	0.	0.	ND	NC	145.	NC	NC
21.00	601.	ND	9.0	2209.	1.04	2.4	23.	ND	NC	138.	NC	NC
21.15	596.	ND	8.4	2070.	1.00	0.	0.	ND	NC	137.	NC	NC
21.30	622.	ND	5.2	1290.	1.00	0.	0.	ND	NC	143.	NC	NC
21.45	631.	ND	4.9	1199.	1.00	0.	0.	ND	NC	145.	NC	NC
21.60	562.	ND	6.6	1615.	1.01	0.8	6.	ND	NC	129.	NC	NC
21.75	612.	ND	7.1	1757.	1.05	2.8	22.	ND	NC	141.	NC	NC
21.90	614.	ND	7.2	1762.	1.04	2.6	20.	ND	NC	141.	NC	NC
22.05	610.	ND	5.0	1221.	1.00	0.	0.	ND	NC	140.	NC	NC
22.20	616.	ND	5.0	1240.	1.00	0.	0.	ND	NC	142.	NC	NC
22.35	624.	ND	6.7	1636.	1.00	0.	0.	ND	NC	143.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	573.	ND	10.1	2489.	1.00	0.	0.	ND	NC	132.	NC	NC
22.65	581.	ND	9.5	2094.	1.00	0.	0.	ND	NC	134.	NC	NC
22.80	602.	ND	5.9	1445.	1.00	0.	0.	ND	NC	138.	NC	NC
22.95	596.	ND	5.9	1441.	1.00	0.	0.	ND	NC	137.	NC	NC
23.10	566.	ND	8.1	1981.	1.01	0.8	7.	ND	NC	130.	NC	NC
23.25	578.	ND	8.9	2179.	1.16	9.[illegible]	95.	ND	NC	133.	NC	NC
23.40	582.	ND	9.6	2359.	1.18	10.7	111.	ND	NC	134.	NC	NC
23.55	562.	ND	9.6	2367.	1.12	7.1	74.	ND	NC	129.	NC	NC
23.70	568.	ND	9.8	2404.	1.05	2.9	31.	ND	NC	131.	NC	NC
23.85	570.	ND	10.0	2464.	1.01	0.4	5.	ND	NC	131.	NC	NC
24.00	562.	ND	9.9	2443.	1.11	6.9	74.	ND	NC	129.	NC	NC
24.15	557.	ND	9.7	2393.	1.06	3.4	36.	ND	NC	128.	NC	NC
24.30	561.	ND	9.7	2396.	1.06	3.7	40.	ND	NC	129.	NC	NC
24.45	566.	ND	9.9	2446.	1.06	3.5	38.	ND	NC	130.	NC	NC
24.60	552.	ND	9.5	2338.	1.04	2.6	27.	ND	NC	127.	NC	NC
24.75	571.	ND	9.2	2253.	1.09	5.2	51.	ND	NC	131.	NC	NC
24.90	575.	ND	9.5	2345.	1.16	9.7	100.	ND	NC	132.	NC	NC
25.05	567.	ND	9.2	2262.	1.09	5.2	52.	ND	NC	130.	NC	NC
25.20	557.	ND	9.7	2375.	1.05	2.9	30.	ND	NC	128.	NC	NC
25.35	552.	ND	9.8	2408.	1.07	4.5	48.	ND	NC	127.	NC	NC
25.50	565.	ND	9.8	2408.	1.12	7.5	80.	ND	NC	130.	NC	NC
25.65	548.	ND	9.5	2339.	1.10	5.[illegible]	61.	ND	NC	126.	NC	NC
25.80	547.	ND	9.5	2339.	1.06	3.8	39.	ND	NC	126.	NC	NC
25.95	551.	ND	9.5	2330.	1.07	4.1	42.	ND	NC	126.	NC	NC
26.10	532.	ND	8.8	2164.	1.06	3.5	33.	ND	NC	122.	NC	NC
26.25	561.	ND	8.8	2155.	1.04	2.4	23.	ND	NC	129.	NC	NC
26.40	549.	ND	8.0	1977.	1.03	1.8	16.	ND	NC	126.	NC	NC
26.55	566.	ND	6.0	1485.	1.00	0.	0.	ND	NC	130.	NC	NC
26.70	575.	ND	6.7	1657.	1.00	0.	0.	ND	NC	132.	NC	NC
26.85	565.	ND	8.3	2042.	1.00	0.	0.	ND	NC	130.	NC	NC
27.00	577.	ND	9.0	2207.	1.05	3.0	29.	ND	NC	133.	NC	NC
27.15	569.	ND	8.3	2050.	1.06	3.4	30.	ND	NC	131.	NC	NC
27.30	584.	ND	7.0	1730.	1.02	1.4	11.	ND	NC	134.	NC	NC
27.45	591.	ND	8.6	2104.	1.00	0.	0.	ND	NC	136.	NC	NC
27.60	584.	ND	10.1	2485.	1.00	0.	0.	ND	NC	134.	NC	NC
27.75	559.	ND	9.9	2432.	1.00	0.	0.	ND	NC	128.	NC	NC
27.90	558.	ND	10.0	2454.	1.10	5.8	63.	ND	NC	128.	NC	NC
28.05	567.	ND	9.8	2407.	1.07	4.5	48.	ND	NC	131.	NC	NC
28.20	562.	ND	9.7	2395.	1.06	3.6	38.	ND	NC	129.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	545.	ND	9.8	2412.	1.05	2.9	31.	ND	NC	125.	NC	NC
28.50	582.	ND	9.7	2396.	1.04	2.6	28.	ND	NC	134.	NC	NC
28.65	570.	ND	9.7	2394.	1.05	3.1	33.	ND	NC	131.	NC	NC
28.80	555.	ND	9.3	2293.	1.06	3.7	37.	ND	NC	128.	NC	NC
28.95	568.	ND	10.0	2463.	1.07	4.3	47.	ND	NC	131.	NC	NC
29.10	572.	ND	9.7	2394.	1.05	2.9	30.	ND	NC	132.	NC	NC
29.25	558.	ND	9.4	2320.	1.05	2.8	28.	ND	NC	128.	NC	NC
29.40	559.	ND	9.7	2376.	1.09	5.5	57.	ND	NC	128.	NC	NC
29.55	570.	ND	10.0	2470.	1.09	5.7	62.	ND	NC	131.	NC	NC
29.70	557.	ND	10.0	2458.	1.07	4.1	45.	ND	NC	128.	NC	NC
29.85	538.	ND	9.8	2416.	1.05	3.3	35.	ND	NC	124.	NC	NC
30.00	554.	ND	9.9	2423.	1.05	3.0	32.	ND	NC	127.	NC	NC
30.15	546.	ND	10.2	2511.	1.06	3.6	40.	ND	NC	126.	NC	NC
30.30	532.	ND	9.7	2382.	1.06	3.7	39.	ND	NC	122.	NC	NC
30.45	519.	ND	10.3	2528.	1.02	1.3	15.	ND	NC	119.	NC	NC
30.60	543.	ND	10.4	2560.	1.02	1.0	11.	ND	NC	125.	NC	NC
30.75	537.	ND	9.2	2256.	1.02	1.3	13.	ND	NC	123.	NC	NC
30.90	526.	ND	8.3	2046.	1.00	0.	0.	ND	NC	121.	NC	NC
31.05	547.	ND	9.9	2439.	1.01	0.6	6.	ND	NC	126.	NC	NC
31.20	522.	ND	10.2	2510.	1.02	1.1	13.	ND	NC	120.	NC	NC
31.35	513.	ND	9.5	2328.	1.00	0.	0.	ND	NC	118.	NC	NC
31.50	541.	ND	8.3	2048.	1.00	0.	0.	ND	NC	124.	NC	NC
31.65	563.	ND	10.2	2504.	1.00	0.	0.	ND	NC	130.	NC	NC
31.80	549.	ND	10.3	2533.	1.00	0.	0.	ND	NC	126.	NC	NC
31.95	508.	ND	10.3	2540.	1.02	1.3	14.	ND	NC	117.	NC	NC
32.10	542.	ND	10.6	2616.	1.02	1.2	14.	ND	NC	125.	NC	NC
32.25	551.	ND	10.2	2499.	1.02	1.5	16.	ND	NC	127.	NC	NC
32.40	515.	ND	9.7	2382.	1.03	1.6	17.	ND	NC	118.	NC	NC
32.55	543.	ND	9.6	2352.	1.02	1.5	16.	ND	NC	125.	NC	NC
32.70	531.	ND	9.0	2215.	1.05	3.3	32.	ND	NC	122.	NC	NC
32.85	527.	ND	8.3	2035.	1.05	2.9	26.	ND	NC	121.	NC	NC
33.00	553.	ND	8.3	2042.	1.07	4.2	37.	ND	NC	127.	NC	NC
33.15	563.	ND	8.0	1973.	1.02	1.3	11.	ND	NC	130.	NC	NC
33.30	539.	ND	7.5	1832.	1.12	7.3	59.	ND	NC	124.	NC	NC
33.45	534.	ND	7.4	1808.	1.12	7.0	56.	ND	NC	123.	NC	NC
33.60	564.	ND	7.5	1840.	1.16	9.6	78.	ND	NC	130.	NC	NC
33.75	568.	ND	7.2	1782.	1.20	12.2	96.	ND	NC	131.	NC	NC
33.90	538.	ND	7.0	1732.	1.14	8.7	67.	ND	NC	124.	NC	NC
34.05	550.	ND	6.8	1678.	1.20	12.0	89.	ND	NC	127.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	562.	ND	6.1	1493.	1.24	14.7	97.	ND	NC	129.	NC	NC
34.35	552.	ND	5.9	1449.	1.23	14.1	90.	ND	NC	127.	NC	NC
34.5[illegible]	546.	ND	6.2	1513.	1.22	13.4	89.	ND	NC	126.	NC	NC
34.65	555.	ND	6.7	1653.	1.21	12.7	93.	ND	NC	128.	NC	NC
34.80	555.	ND	6.4	1575.	1.23	13.8	96.	ND	NC	128.	NC	NC
34.95	550.	ND	6.0	1469.	1.25	15.3	99.	ND	NC	126.	NC	NC
35.10	572.	ND	6.1	1494.	1.28	16.7	110.	ND	NC	132.	NC	NC
35.25	594.	ND	5.9	1463.	1.30	18.1	117.	ND	NC	137.	NC	NC
35.40	546.	ND	6.1	1491.	1.23	14.0	92.	ND	NC	126.	NC	NC
35.55	551.	ND	6.6	1625.	1.14	8.8	63.	ND	NC	127.	NC	NC
35.70	558.	ND	6.5	1595.	1.23	14.1	99.	ND	NC	128.	NC	NC
35.85	566.	ND	6.3	1540.	1.33	20.1	137.	ND	NC	130.	NC	NC
36.[illegible]	552.	ND	6.5	1608.	1.19	11.4	81.	ND	NC	127.	NC	NC
36.15	555.	ND	7.0	1726.	1.15	9.2	70.	ND	NC	128.	NC	NC
36.3[illegible]	550.	ND	7.2	1776.	1.19	11.5	90.	ND	NC	127.	NC	NC
36.45	539.	ND	6.9	1667.	1.13	7.7	57.	ND	NC	124.	NC	NC
36.60	547.	ND	7.1	1738.	1.17	10.3	79.	ND	NC	126.	NC	NC
36.75	551.	ND	7.1	1758.	1.18	11.2	87.	ND	NC	127.	NC	NC
36.9[illegible]	553.	ND	7.0	1732.	1.14	8.4	64.	ND	NC	127.	NC	NC
37.05	543.	ND	7.0	1724.	1.11	6.5	50.	ND	NC	125.	NC	NC
37.20	569.	ND	6.8	1671.	1.20	12.0	88.	ND	NC	131.	NC	NC
37.35	551.	ND	6.6	1617.	1.30	18.4	132.	ND	NC	127.	NC	NC
37.50	541.	ND	6.7	1650.	1.18	10.9	80.	ND	NC	124.	NC	NC
37.65	547.	ND	7.1	1758.	1.14	8.3	64.	ND	NC	126.	NC	NC
37.80	559.	ND	7.2	1778.	1.21	12.7	100.	ND	NC	129.	NC	NC
37.95	551.	ND	6.6	1625.	1.14	8.8	63.	ND	NC	127.	NC	NC
38.10	538.	ND	7.0	1731.	1.15	9.0	69.	ND	NC	124.	NC	NC
38.25	547.	ND	7.4	1830.	1.18	10.6	86.	ND	NC	126.	NC	NC
38.40	551.	ND	7.3	1805.	1.16	9.4	75.	ND	NC	127.	NC	NC
38.55	551.	ND	7.0	1714.	1.10	6.0	45.	ND	NC	127.	NC	NC
38.7[illegible]	549.	ND	7.2	1760.	1.17	10.2	79.	ND	NC	126.	NC	NC
38.85	550.	ND	7.2	1775.	1.21	12.5	99.	ND	NC	126.	NC	NC
39.00	539.	ND	7.3	1803.	1.14	8.4	67.	ND	NC	124.	NC	NC
39.15	535.	ND	7.6	1864.	1.10	5.8	48.	ND	NC	123.	NC	NC
39.30	552.	ND	7.8	1914.	1.13	8.0	67.	ND	NC	127.	NC	NC
39.45	542.	ND	7.2	1765.	1.12	7.4	58.	ND	NC	125.	NC	NC
39.60	536.	ND	7.2	1778.	1.11	6.6	52.	ND	NC	123.	NC	NC
39.75	546.	ND	7.7	1897.	1.12	7.1	59.	ND	NC	126.	NC	NC
39.90	555.	ND	7.5	1836.	1.12	7.4	60.	ND	NC	128.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	541.	ND	7.0	1732.	1.07	4.0	30.	ND	NC	125.	NC	NC
40.20	545.	ND	7.2	1772.	1.15	9.1	71.	ND	NC	125.	NC	NC
40.35	556.	ND	7.2	1764.	1.21	12.5	97.	ND	NC	128.	NC	NC
40.50	547.	ND	7.1	1747.	1.11	6.9	53.	ND	NC	126.	NC	NC
40.65	525.	ND	7.3	1784.	1.12	7.0	55.	ND	NC	121.	NC	NC
40.80	555.	ND	7.3	1789.	1.25	15.0	118.	ND	NC	128.	NC	NC
40.95	562.	ND	5.9	1456.	1.38	23.2	149.	ND	NC	129.	NC	NC
41.10	552.	ND	5.4	1319.	1.24	14.6	85.	ND	NC	127.	NC	NC
41.25	540.	ND	6.4	1577.	1.28	17.0	118.	ND	NC	124.	NC	NC
41.40	570.	ND	6.6	1630.	1.22	13.1	94.	ND	NC	131.	NC	NC
41.55	553.	ND	6.0	1477.	1.12	7.0	45.	ND	NC	127.	NC	NC
41.70	556.	ND	5.5	1357.	1.18	11.1	67.	ND	NC	128.	NC	NC
41.85	569.	ND	5.5	1356.	1.43	26.3	157.	ND	NC	131.	NC	NC
42.00	549.	ND	6.1	1502.	1.17	10.3	68.	ND	NC	126.	NC	NC
42.15	549.	ND	6.8	1675.	1.15	8.9	66.	ND	NC	126.	NC	NC
42.30	564.	ND	7.3	1796.	1.21	12.5	99.	ND	NC	130.	NC	NC
42.45	572.	ND	5.9	1448.	1.33	19.7	126.	ND	NC	132.	NC	NC
42.60	551.	ND	5.8	1428.	1.20	12.2	77.	ND	NC	127.	NC	NC
42.75	550.	ND	6.8	1677.	1.19	11.6	86.	ND	NC	127.	NC	NC
42.90	561.	ND	7.1	1740.	1.17	10.0	77.	ND	NC	129.	NC	NC
43.05	559.	ND	6.8	1677.	1.15	9.0	67.	ND	NC	129.	NC	NC
43.20	549.	ND	7.0	1729.	1.17	10.5	80.	ND	NC	126.	NC	NC
43.35	577.	ND	7.0	1728.	1.24	14.3	109.	ND	NC	133.	NC	NC
43.50	559.	ND	7.1	1753.	1.18	11.0	85.	ND	NC	128.	NC	NC
43.65	542.	ND	7.4	1824.	1.12	7.5	61.	ND	NC	125.	NC	NC
43.80	563.	ND	7.8	1925.	1.09	5.5	47.	ND	NC	130.	NC	NC
43.95	556.	ND	7.3	1800.	1.15	8.9	70.	ND	NC	128.	NC	NC
44.10	539.	ND	7.1	1750.	1.19	11.6	89.	ND	NC	124.	NC	NC
44.25	546.	ND	7.4	1828.	1.14	8.7	70.	ND	NC	126.	NC	NC
44.40	554.	ND	7.6	1872.	1.10	6.2	51.	ND	NC	127.	NC	NC
44.55	544.	ND	7.6	1872.	1.10	6.4	53.	ND	NC	125.	NC	NC
44.70	533.	ND	7.7	1901.	1.10	5.9	49.	ND	NC	123.	NC	NC
44.85	557.	ND	7.6	1873.	1.13	7.7	64.	ND	NC	128.	NC	NC
45.00	557.	ND	7.7	1905.	1.13	7.9	67.	ND	NC	128.	NC	NC
45.15	538.	ND	7.7	1885.	1.11	6.5	54.	ND	NC	124.	NC	NC
45.30	551.	ND	7.8	1912.	1.08	5.0	42.	ND	NC	127.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 30 78
RUN NUMBER- 11
SEGMENT NUMBER- 2
WATER DEPTH- 14 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.30
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	531.	ND	11.7	2883.	1.02	1.3	17.	ND	NC	122.	NC	NC
0.15	514.	ND	11.4	2799.	1.02	1.2	15.	ND	NC	118.	NC	NC
0.30	514.	ND	10.6	2611.	1.02	1.2	14.	ND	NC	116.	NC	NC
0.45	544.	ND	11.1	2739.	1.02	1.1	13.	ND	NC	125.	NC	NC
0.60	528.	ND	11.6	2858.	1.02	1.0	13.	ND	NC	121.	NC	NC
0.75	513.	ND	11.1	2722.	1.02	1.0	12.	ND	NC	118.	NC	NC
0.90	536.	ND	10.9	2686.	1.01	0.5	6.	ND	NC	123.	NC	NC
1.05	538.	ND	12.3	3022.	1.01	0.3	5.	ND	NC	124.	NC	NC
1.20	526.	ND	11.7	2886.	1.02	1.0	13.	ND	NC	121.	NC	NC
1.35	527.	ND	11.5	2825.	1.01	0.5	6.	ND	NC	121.	NC	NC
1.50	539.	ND	11.6	2845.	1.02	0.9	12.	ND	NC	124.	NC	NC
1.65	542.	ND	11.5	2824.	1.02	1.3	17.	ND	NC	125.	NC	NC
1.80	521.	ND	11.4	2808.	1.02	1.1	13.	ND	NC	120.	NC	NC
1.95	532.	ND	11.4	2813.	1.01	0.3	4.	ND	NC	122.	NC	NC
2.10	532.	ND	11.6	2842.	1.02	1.1	14.	ND	NC	122.	NC	NC
2.25	523.	ND	11.2	2759.	1.01	0.4	4.	ND	NC	120.	NC	NC
2.40	524.	ND	11.0	2698.	1.02	1.1	13.	ND	NC	120.	NC	NC
2.55	535.	ND	11.2	2755.	1.02	1.2	14.	ND	NC	123.	NC	NC
2.70	532.	ND	11.3	2787.	1.02	1.2	15.	ND	NC	122.	NC	NC
2.85	518.	ND	11.2	2764.	1.01	0.6	7.	ND	NC	119.	NC	NC
3.00	522.	ND	11.4	2814.	1.01	0.6	7.	ND	NC	120.	NC	NC
3.15	527.	ND	11.6	2851.	1.02	1.0	12.	ND	NC	121.	NC	NC
3.30	522.	ND	11.1	2738.	1.02	1.2	14.	ND	NC	120.	NC	NC
3.45	511.	ND	11.3	2773.	1.02	1.0	12.	ND	NC	118.	NC	NC
3.60	514.	ND	11.7	2871.	1.02	1.1	14.	ND	NC	118.	NC	NC
3.75	521.	ND	11.6	2851.	1.01	0.7	9.	ND	NC	120.	NC	NC
3.90	513.	ND	11.0	2702.	1.02	1.1	13.	ND	NC	118.	NC	NC
4.05	518.	ND	11.8	2899.	1.01	0.4	5.	ND	NC	119.	NC	NC
4.20	518.	ND	12.0	2956.	1.01	0.7	9.	ND	NC	119.	NC	NC
4.35	515.	ND	11.6	2851.	1.01	0.6	7.	ND	NC	118.	NC	NC
4.50	512.	ND	11.5	2828.	1.01	0.6	7.	ND	NC	118.	NC	NC
4.65	522.	ND	11.7	2871.	1.02	1.2	15.	ND	NC	120.	NC	NC
4.80	520.	ND	11.7	2869.	1.01	0.9	11.	ND	NC	120.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	513.	ND	11.2	2753.	1.01	0.4	5.	ND	NC	118.	NC	NC
5.10	516.	ND	11.5	2817.	1.01	0.9	11.	ND	NC	119.	NC	NC
5.25	523.	ND	11.7	2874.	1.02	0.9	12.	ND	NC	120.	NC	NC
5.40	522.	ND	10.9	2680.	1.01	0.8	10.	ND	NC	120.	NC	NC
5.55	523.	ND	11.5	2823.	1.00	0.	0.	ND	NC	120.	NC	NC
5.70	532.	ND	11.8	2893.	1.01	0.6	8.	ND	NC	122.	NC	NC
5.85	529.	ND	11.5	2838.	1.01	0.6	8.	ND	NC	122.	NC	NC
6.00	511.	ND	11.6	2848.	1.01	0.5	6.	ND	NC	118.	NC	NC
6.15	538.	ND	11.4	2801.	1.01	0.8	10.	ND	NC	124.	NC	NC
6.30	531.	ND	11.5	2829.	1.01	0.6	8.	ND	NC	122.	NC	NC
6.45	517.	ND	11.2	2748.	1.01	0.6	7.	ND	NC	119.	NC	NC
6.60	522.	ND	11.7	2873.	1.02	1.1	15.	ND	NC	120.	NC	NC
6.75	535.	ND	11.8	2902.	1.02	1.2	16.	ND	NC	123.	NC	NC
6.90	527.	ND	11.0	2706.	1.00	0.	0.	ND	NC	121.	NC	NC
7.05	506.	ND	11.3	2788.	1.01	0.4	5.	ND	NC	116.	NC	NC
7.20	537.	ND	11.7	2867.	1.01	0.8	10.	ND	NC	123.	NC	NC
7.35	529.	ND	11.4	2794.	1.01	0.4	5.	ND	NC	122.	NC	NC
7.50	509.	ND	11.1	2731.	1.01	0.3	4.	ND	NC	117.	NC	NC
7.65	527.	ND	11.3	2770.	1.01	0.7	9.	ND	NC	121.	NC	NC
7.80	532.	ND	11.5	2834.	1.02	1.1	13.	ND	NC	122.	NC	NC
7.95	516.	ND	11.2	2764.	1.02	1.0	12.	ND	NC	119.	NC	NC
8.10	527.	ND	11.4	2810.	1.03	1.6	19.	ND	NC	121.	NC	NC
8.25	539.	ND	11.6	2856.	1.01	0.8	10.	ND	NC	124.	NC	NC
8.40	528.	ND	11.4	2800.	1.01	0.6	7.	ND	NC	121.	NC	NC
8.55	512.	ND	10.8	2661.	1.01	0.9	11.	ND	NC	118.	NC	NC
8.70	525.	ND	11.8	2898.	1.02	1.1	14.	ND	NC	121.	NC	NC
8.85	528.	ND	12.0	2958.	1.01	0.6	8.	ND	NC	121.	NC	NC
9.00	505.	ND	11.5	2824.	1.00	0.	0.	ND	NC	116.	NC	NC
9.15	514.	ND	10.9	2687.	1.02	1.0	12.	ND	NC	118.	NC	NC
9.30	534.	ND	11.2	2756.	1.01	0.3	4.	ND	NC	123.	NC	NC
9.45	498.	ND	12.5	3072.	1.00	0.	0.	ND	NC	114.	NC	NC
9.60	494.	ND	13.5	3321.	1.00	0.	0.	ND	NC	114.	NC	NC
9.75	516.	ND	7.9	1937.	1.00	0.	0.	ND	NC	119.	NC	NC
9.90	412.	ND	8.5	2089.	1.00	0.	0.	ND	NC	95.	NC	NC
10.05	393.	ND	9.2	2267.	1.00	0.	0.	ND	NC	90.	NC	NC
10.20	429.	ND	7.7	1897.	1.00	0.	0.	ND	NC	99.	NC	NC
10.35	454.	ND	4.9	1196.	1.00	0.	0.	ND	NC	104.	NC	NC
10.50	473.	ND	7.7	1905.	1.00	0.	0.	ND	NC	109.	NC	NC
10.65	473.	ND	10.1	2493.	1.00	0.	0.	ND	NC	109.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	447.	ND	11.4	2604.	1.00	0.	0.	ND	NC	103.	NC	NC
10.95	387.	ND	9.7	2381.	1.00	0.	0.	ND	NC	89.	NC	NC
11.10	417.	ND	5.7	1400.	1.00	0.	0.	ND	NC	96.	NC	NC
11.25	424.	ND	5.7	1640.	1.00	0.	0.	ND	NC	98.	NC	NC
11.40	386.	ND	8.8	2154.	1.00	0.	0.	ND	NC	89.	NC	NC
11.55	386.	ND	8.7	2138.	1.00	0.	0.	ND	NC	89.	NC	NC
11.70	388.	ND	9.7	2396.	1.00	0.	0.	ND	NC	89.	NC	NC
11.85	389.	ND	9.9	2443.	1.01	0.5	6.	ND	NC	90.	NC	NC
12.00	380.	ND	9.9	2443.	1.02	1.0	11.	ND	NC	87.	NC	NC
12.15	380.	ND	9.5	2332.	1.02	1.2	12.	ND	NC	87.	NC	NC
12.30	386.	ND	9.7	2382.	1.03	1.9	20.	ND	NC	89.	NC	NC
12.45	386.	ND	9.6	2363.	1.03	1.6	17.	ND	NC	89.	NC	NC
12.60	375.	ND	9.5	2329.	1.02	1.1	12.	ND	NC	86.	NC	NC
12.75	387.	ND	9.6	2361.	1.01	0.6	6.	ND	NC	89.	NC	NC
12.90	380.	ND	10.3	2541.	1.00	0.	0.	ND	NC	87.	NC	NC
13.05	380.	ND	9.1	2232.	1.02	1.0	10.	ND	NC	87.	NC	NC
13.20	377.	ND	9.5	2343.	1.01	0.3	4.	ND	NC	87.	NC	NC
13.35	374.	ND	10.3	2541.	1.01	0.7	8.	ND	NC	86.	NC	NC
13.50	388.	ND	9.6	2368.	1.00	0.	0.	ND	NC	89.	NC	NC
13.65	383.	ND	9.1	2230.	1.00	0.	0.	ND	NC	88.	NC	NC
13.80	422.	ND	9.4	2304.	1.05	2.9	29.	ND	NC	97.	NC	NC
13.95	460.	ND	8.9	2199.	1.08	4.9	48.	ND	NC	106.	NC	NC
14.10	481.	ND	9.2	2255.	1.01	0.6	6.	ND	NC	111.	NC	NC
14.25	468.	ND	9.4	2322.	1.05	2.8	29.	ND	NC	108.	NC	NC
14.40	489.	ND	9.6	2356.	1.06	3.9	40.	ND	NC	112.	NC	NC
14.55	511.	ND	7.4	1815.	1.02	1.2	10.	ND	NC	118.	NC	NC
14.70	505.	ND	7.4	1819.	1.00	0.	0.	ND	NC	116.	NC	NC
14.85	487.	ND	8.3	2059.	1.04	2.3	21.	ND	NC	112.	NC	NC
15.00	499.	ND	7.8	1921.	1.10	5.8	49.	ND	NC	115.	NC	NC
15.15	505.	ND	6.9	1690.	1.11	6.7	50.	ND	NC	116.	NC	NC
15.30	540.	ND	6.0	1474.	1.08	4.9	32.	ND	NC	124.	NC	NC
15.45	538.	ND	4.3	1060.	1.03	0.	0.	ND	NC	124.	NC	NC
15.60	513.	ND	5.8	1415.	1.00	0.	0.	ND	NC	118.	NC	NC
15.75	477.	ND	6.8	1678.	1.03	2.1	16.	ND	NC	110.	NC	NC
15.90	495.	ND	6.4	1566.	1.11	6.5	45.	ND	NC	114.	NC	NC
16.05	507.	ND	6.9	1707.	1.10	6.3	48.	ND	NC	117.	NC	NC
16.20	505.	ND	5.8	1434.	1.02	1.5	9.	ND	NC	116.	NC	NC
16.35	534.	ND	4.3	1049.	1.00	0.	0.	ND	NC	123.	NC	NC
16.50	525.	ND	4.5	1117.	1.00	0.	0.	ND	NC	121.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	477.	ND	5.1	1262.	1.08	4.9	27.	ND	NC	110.	NC	NC
16.80	434.	ND	6.5	1602.	1.12	7.4	52.	ND	NC	100.	NC	NC
16.95	490.	ND	4.7	1160.	1.00	0.	0.	ND	NC	113.	NC	NC
17.10	497.	ND	4.5	1095.	1.00	0.	0.	ND	NC	114.	NC	NC
17.25	487.	ND	6.6	1618.	1.00	0.	0.	ND	NC	112.	NC	NC
17.40	469.	ND	7.9	1954.	1.04	2.2	19.	ND	NC	108.	NC	NC
17.55	482.	ND	8.2	2022.	1.13	7.9	70.	ND	NC	111.	NC	NC
17.70	463.	ND	8.2	2027.	1.09	5.5	49.	ND	NC	106.	NC	NC
17.85	452.	ND	9.4	2322.	1.06	3.8	39.	ND	NC	104.	NC	NC
18.00	463.	ND	10.0	2448.	1.05	3.2	34.	ND	NC	106.	NC	NC
18.15	459.	ND	9.5	2327.	1.05	3.1	32.	ND	NC	106.	NC	NC
18.30	452.	ND	8.8	2167.	1.05	2.9	27.	ND	NC	104.	NC	NC
18.45	464.	ND	9.4	2313.	1.06	3.4	34.	ND	NC	107.	NC	NC
18.60	472.	ND	9.5	2345.	1.07	4.2	43.	ND	NC	108.	NC	NC
18.75	462.	ND	9.3	2280.	1.05	3.1	31.	ND	NC	106.	NC	NC
18.90	459.	ND	9.3	2277.	1.06	3.4	34.	ND	NC	106.	NC	NC
19.05	473.	ND	9.2	2250.	1.08	5.0	50.	ND	NC	109.	NC	NC
19.20	475.	ND	8.8	2165.	1.08	4.7	45.	ND	NC	109.	NC	NC
19.35	452.	ND	9.0	2211.	1.07	4.5	44.	ND	NC	104.	NC	NC
19.50	467.	ND	9.5	2333.	1.07	4.2	43.	ND	NC	107.	NC	NC
19.65	468.	ND	9.0	2210.	1.06	3.4	33.	ND	NC	108.	NC	NC
19.80	463.	ND	8.4	2066.	1.07	4.0	37.	ND	NC	106.	NC	NC
19.95	461.	ND	8.6	2109.	1.09	5.8	54.	ND	NC	106.	NC	NC
20.10	477.	ND	8.9	2183.	1.11	6.6	63.	ND	NC	110.	NC	NC
20.25	472.	ND	8.8	2175.	1.10	6.0	58.	ND	NC	109.	NC	NC
20.40	470.	ND	8.6	2117.	1.08	4.9	46.	ND	NC	108.	NC	NC
20.55	489.	ND	8.4	2054.	1.14	8.5	77.	ND	NC	112.	NC	NC
20.70	484.	ND	8.0	1975.	1.20	12.2	107.	ND	NC	111.	NC	NC
20.85	473.	ND	7.9	1937.	1.16	9.6	82.	ND	NC	109.	NC	NC
21.00	484.	ND	8.0	1966.	1.14	8.5	74.	ND	NC	111.	NC	NC
21.15	486.	ND	7.6	1879.	1.14	8.6	71.	ND	NC	112.	NC	NC
21.30	484.	ND	7.5	1833.	1.10	6.1	50.	ND	NC	111.	NC	NC
21.45	481.	ND	7.6	1869.	1.20	12.2	101.	ND	NC	111.	NC	NC
21.60	479.	ND	7.5	1849.	1.32	19.1	156.	ND	NC	110.	NC	NC
21.75	474.	ND	7.4	1814.	1.24	14.8	118.	ND	NC	109.	NC	NC
21.90	465.	ND	7.2	1763.	1.20	12.3	96.	ND	NC	107.	NC	NC
22.05	502.	ND	6.8	1663.	1.19	11.3	83.	ND	NC	116.	NC	NC
22.20	512.	ND	6.1	1497.	1.40	24.3	161.	ND	NC	118.	NC	NC
22.35	491.	ND	6.9	1701.	1.31	18.8	141.	ND	NC	113.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	481.	ND	7.4	1818.	1.39	23.8	191.	ND	NC	111.	NC	NC
22.65	487.	ND	5.6	1388.	1.39	23.9	147.	ND	NC	112.	NC	NC
22.80	482.	ND	5.5	1364.	1.31	19.0	114.	ND	NC	111.	NC	NC
22.95	487.	ND	6.3	1554.	1.36	21.5	148.	ND	NC	112.	NC	NC
23.10	493.	ND	6.2	1516.	1.24	14.7	98.	ND	NC	113.	NC	NC
23.25	493.	ND	5.6	1378.	1.25	15.3	93.	ND	NC	113.	NC	NC
23.40	484.	ND	5.9	1448.	1.25	15.3	98.	ND	NC	111.	NC	NC
23.55	489.	ND	6.0	1467.	1.43	25.9	168.	ND	NC	112.	NC	NC
23.70	492.	ND	6.4	1578.	1.51	31.1	217.	ND	NC	113.	NC	NC
23.85	488.	ND	6.9	1707.	1.31	18.9	143.	ND	NC	112.	NC	NC
24.00	483.	ND	7.4	1832.	1.22	13.5	109.	ND	NC	111.	NC	NC
24.15	485.	ND	6.4	1586.	1.27	16.5	115.	ND	NC	112.	NC	NC
24.30	492.	ND	6.0	1469.	1.17	10.3	67.	ND	NC	113.	NC	NC
24.45	484.	ND	6.6	1635.	1.26	15.9	115.	ND	NC	111.	NC	NC
24.60	479.	ND	6.2	1533.	1.34	20.4	138.	ND	NC	110.	NC	NC
24.75	474.	ND	6.2	1533.	1.26	15.8	107.	ND	NC	109.	NC	NC
24.90	471.	ND	6.5	1597.	1.28	16.7	118.	ND	NC	108.	NC	NC
25.05	471.	ND	6.4	1584.	1.40	24.5	172.	ND	NC	108.	NC	NC
25.20	484.	ND	6.4	1575.	1.53	32.1	223.	ND	NC	111.	NC	NC
25.35	491.	ND	6.5	1587.	1.38	23.1	162.	ND	NC	113.	NC	NC
25.50	480.	ND	6.6	1615.	1.30	18.2	129.	ND	NC	110.	NC	NC
25.65	479.	ND	6.5	1601.	1.43	26.1	185.	ND	NC	110.	NC	NC
25.80	487.	ND	6.4	1566.	1.44	26.9	186.	ND	NC	112.	NC	NC
25.95	487.	ND	7.2	1768.	1.31	18.8	147.	ND	NC	112.	NC	NC
26.10	479.	ND	7.1	1756.	1.42	25.7	199.	ND	NC	110.	NC	NC
26.25	510.	ND	6.1	1509.	1.37	22.6	151.	ND	NC	117.	NC	NC
26.40	487.	ND	6.3	1552.	1.37	22.6	155.	ND	NC	112.	NC	NC
26.55	481.	ND	6.5	1587.	1.43	26.3	184.	ND	NC	111.	NC	NC
26.70	497.	ND	6.3	1543.	1.50	30.3	206.	ND	NC	114.	NC	NC
26.85	505.	ND	6.1	1495.	1.49	30.0	198.	ND	NC	116.	NC	NC
27.00	487.	ND	7.1	1753.	1.39	23.8	184.	ND	NC	112.	NC	NC
27.15	481.	ND	6.6	1621.	1.50	30.5	218.	ND	NC	111.	NC	NC
27.30	499.	ND	6.2	1531.	1.51	31.1	210.	ND	NC	115.	NC	NC
27.45	501.	ND	6.7	1635.	1.39	23.7	171.	ND	NC	115.	NC	NC
27.60	472.	ND	7.4	1811.	1.51	31.0	247.	ND	NC	109.	NC	NC
27.75	506.	ND	6.1	1490.	1.56	33.8	222.	ND	NC	116.	NC	NC
27.90	504.	ND	6.1	1509.	1.42	25.7	171.	ND	NC	116.	NC	NC
28.05	497.	ND	6.9	1687.	1.27	16.6	124.	ND	NC	114.	NC	NC
28.20	495.	ND	6.4	1567.	1.45	27.4	190.	ND	NC	114.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	503.	ND	6.2	1521.	1.54	32.5	218.	ND	NC	116.	NC	NC
28.50	482.	ND	6.7	1638.	1.37	22.5	163.	ND	NC	111.	NC	NC
28.65	498.	ND	6.9	1457.	1.40	24.1	155.	ND	NC	114.	NC	NC
28.80	519.	ND	6.2	1286.	1.43	26.1	148.	ND	NC	119.	NC	NC
28.95	506.	ND	6.5	1594.	1.40	24.5	172.	ND	NC	116.	NC	NC
29.10	486.	ND	6.9	1715.	1.43	26.0	195.	ND	NC	112.	NC	NC
29.25	490.	ND	6.7	1646.	1.53	30.2	220.	ND	NC	113.	NC	NC
29.40	506.	ND	6.2	1516.	1.54	32.7	219.	ND	NC	116.	NC	NC
29.55	492.	ND	6.7	1642.	1.35	21.3	155.	ND	NC	113.	NC	NC
29.70	501.	ND	6.9	1699.	1.49	29.7	223.	ND	NC	115.	NC	NC
29.85	500.	ND	6.9	1691.	1.56	33.7	252.	ND	NC	115.	NC	NC
30.00	486.	ND	7.1	1748.	1.33	20.0	154.	ND	NC	112.	NC	NC
30.15	476.	ND	7.2	1771.	1.32	19.1	149.	ND	NC	110.	NC	NC
30.30	501.	ND	7.0	1720.	1.46	27.7	211.	ND	NC	115.	NC	NC
30.45	493.	ND	6.9	1700.	1.40	24.5	184.	ND	NC	113.	NC	NC
30.60	483.	ND	7.4	1810.	1.30	18.1	144.	ND	NC	111.	NC	NC
30.75	483.	ND	7.4	1810.	1.43	25.8	206.	ND	NC	111.	NC	NC
30.90	493.	ND	6.8	1666.	1.54	32.9	242.	ND	NC	113.	NC	NC
31.05	503.	ND	6.8	1680.	1.28	16.9	125.	ND	NC	116.	NC	NC
31.20	490.	ND	7.5	1855.	1.40	24.1	197.	ND	NC	113.	NC	NC
31.35	506.	ND	7.0	1725.	1.57	34.5	263.	ND	NC	116.	NC	NC
31.50	506.	ND	6.7	1637.	1.40	24.1	175.	ND	NC	116.	NC	NC
31.65	502.	ND	7.1	1751.	1.30	18.0	139.	ND	NC	116.	NC	NC
31.80	500.	ND	7.3	1799.	1.43	26.3	209.	ND	NC	115.	NC	NC
31.95	502.	ND	7.1	1734.	1.41	25.1	192.	ND	NC	116.	NC	NC
32.10	491.	ND	7.3	1791.	1.22	13.4	106.	ND	NC	113.	NC	NC
32.25	488.	ND	7.8	1927.	1.33	20.3	172.	ND	NC	112.	NC	NC
32.40	507.	ND	7.9	1937.	1.31	18.6	159.	ND	NC	117.	NC	NC
32.55	503.	ND	6.6	1622.	1.09	5.5	40.	ND	NC	116.	NC	NC
32.70	506.	ND	5.5	1344.	1.21	12.9	76.	ND	NC	116.	NC	NC
32.85	510.	ND	5.1	1247.	1.38	22.8	125.	ND	NC	117.	NC	NC
33.00	495.	ND	5.4	1334.	1.16	9.7	57.	ND	NC	114.	NC	NC
33.15	476.	ND	5.9	1444.	1.16	9.8	62.	ND	NC	109.	NC	NC
33.30	534.	ND	4.9	1212.	1.11	6.8	37.	ND	NC	123.	NC	NC
33.45	522.	ND	4.3	1051.	1.03	1.6	7.	ND	NC	120.	NC	NC
33.60	507.	ND	3.8	941.	1.00	0.	0.	ND	NC	117.	NC	NC
33.75	500.	ND	5.4	1333.	1.01	0.4	3.	ND	NC	115.	NC	NC
33.90	495.	ND	7.2	1769.	1.03	1.6	12.	ND	NC	114.	NC	NC
34.05	489.	ND	6.9	1687.	1.04	2.7	20.	ND	NC	112.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	489.	ND	6.7	1641.	1.08	5.0	36.	ND	NC	112.	NC	NC
34.35	490.	ND	7.6	1860.	1.17	10.1	83.	ND	NC	113.	NC	NC
34.50	484.	ND	7.8	1913.	1.13	8.2	69.	ND	NC	111.	NC	NC
34.65	479.	ND	7.5	1872.	1.12	7.1	58.	ND	NC	110.	NC	NC
34.80	480.	ND	8.0	1957.	1.14	9.5	73.	ND	NC	110.	NC	NC
34.95	498.	ND	8.1	2003.	1.27	16.4	145.	ND	NC	115.	NC	NC
35.10	463.	ND	7.7	1887.	1.25	15.2	127.	ND	NC	106.	NC	NC
35.25	468.	ND	7.7	1893.	1.14	8.2	69.	ND	NC	108.	NC	NC
35.40	484.	ND	7.8	1920.	1.14	8.6	73.	ND	NC	111.	NC	NC
35.55	496.	ND	5.8	1419.	1.04	2.3	15.	ND	NC	114.	NC	NC
35.70	504.	ND	5.3	1241.	1.04	2.6	14.	ND	NC	116.	NC	NC
35.85	514.	ND	5.4	1318.	1.05	3.0	18.	ND	NC	118.	NC	NC
36.00	503.	ND	5.9	1446.	1.10	5.8	37.	ND	NC	116.	NC	NC
36.15	487.	ND	6.6	1627.	1.13	7.9	57.	ND	NC	112.	NC	NC
36.30	495.	ND	6.5	1606.	1.13	7.6	54.	ND	NC	114.	NC	NC
36.45	503.	ND	6.0	1471.	1.08	5.1	33.	ND	NC	116.	NC	NC
36.60	494.	ND	6.7	1653.	1.28	17.1	125.	ND	NC	114.	NC	NC
36.75	484.	ND	7.4	1809.	1.21	12.5	100.	ND	NC	111.	NC	NC
36.90	475.	ND	7.4	1830.	1.18	11.2	90.	ND	NC	109.	NC	NC
37.05	490.	ND	7.2	1778.	1.34	20.8	163.	ND	NC	113.	NC	NC
37.20	475.	ND	6.7	1636.	1.37	22.4	161.	ND	NC	109.	NC	NC
37.35	450.	ND	6.9	1704.	1.32	19.3	145.	ND	NC	104.	NC	NC
37.50	494.	ND	6.2	1515.	1.30	18.5	123.	ND	NC	114.	NC	NC
37.65	500.	ND	5.4	1319.	1.15	9.1	53.	ND	NC	115.	NC	NC
37.80	500.	ND	4.4	1086.	1.03	1.6	8.	ND	NC	115.	NC	NC
37.95	508.	ND	3.5	849.	1.09	5.3	20.	ND	NC	117.	NC	NC
38.10	519.	ND	4.4	1071.	1.10	6.3	30.	ND	NC	119.	NC	NC
38.25	504.	ND	5.3	1314.	1.12	7.1	41.	ND	NC	116.	NC	NC
38.40	501.	ND	6.7	1646.	1.24	14.7	107.	ND	NC	115.	NC	NC
38.55	502.	ND	6.8	1660.	1.38	23.1	169.	ND	NC	115.	NC	NC
38.70	492.	ND	6.6	1612.	1.51	31.0	221.	ND	NC	113.	NC	NC
38.85	479.	ND	7.2	1761.	1.24	14.3	111.	ND	NC	110.	NC	NC
39.00	486.	ND	7.2	1770.	1.25	15.3	119.	ND	NC	112.	NC	NC
39.15	499.	ND	7.4	1830.	1.24	14.7	119.	ND	NC	115.	NC	NC
39.30	522.	ND	5.3	1292.	1.09	5.5	31.	ND	NC	120.	NC	NC
39.45	531.	ND	4.6	1128.	1.03	1.9	9.	ND	NC	122.	NC	NC
39.60	534.	ND	3.2	795.	1.05	3.3	12.	ND	NC	123.	NC	NC
39.75	510.	ND	3.3	817.	1.36	21.6	78.	ND	NC	117.	NC	NC
39.90	522.	ND	4.8	1176.	1.33	20.1	104.	ND	NC	120.	NC	NC

RUN NUMBER- 11
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	520.	ND	6.1	1505.	1.28	17.2	114.	ND	NC	120.	NC	NC
40.20	513.	ND	6.8	1669.	1.39	23.5	173.	ND	NC	118.	NC	NC
40.35	500.	ND	7.4	1826.	1.21	12.7	103.	ND	NC	115.	NC	NC
40.50	495.	ND	8.3	2031.	1.29	17.4	156.	ND	NC	114.	NC	NC
40.65	496.	ND	7.8	1929.	1.27	16.6	142.	ND	NC	114.	NC	NC
40.80	491.	ND	7.4	1822.	1.13	7.6	61.	ND	NC	113.	NC	NC
40.95	482.	ND	7.8	1909.	1.28	17.3	146.	ND	NC	111.	NC	NC
41.10	496.	ND	7.1	1747.	1.44	26.9	207.	ND	NC	114.	NC	NC
41.25	486.	ND	7.0	1711.	1.21	12.6	95.	ND	NC	112.	NC	NC
41.40	490.	ND	7.1	1748.	1.23	13.9	107.	ND	NC	113.	NC	NC
41.55	505.	ND	6.4	1574.	1.37	22.6	157.	ND	NC	116.	NC	NC
41.70	498.	ND	7.0	1724.	1.43	25.9	197.	ND	NC	115.	NC	NC
41.85	492.	ND	7.2	1764.	1.24	14.5	113.	ND	NC	113.	NC	NC
42.00	498.	ND	7.7	1900.	1.33	20.2	169.	ND	NC	114.	NC	NC
42.15	500.	ND	6.9	1692.	1.49	29.8	223.	ND	NC	115.	NC	NC
42.30	491.	ND	6.4	1564.	1.30	18.4	127.	ND	NC	113.	NC	NC
42.45	488.	ND	6.8	1661.	1.43	26.0	191.	ND	NC	112.	NC	NC
42.60	497.	ND	6.9	1685.	1.51	30.9	230.	ND	NC	114.	NC	NC
42.75	500.	ND	6.6	1611.	1.45	27.0	192.	ND	NC	115.	NC	NC
42.90	499.	ND	6.9	1696.	1.24	14.7	110.	ND	NC	115.	NC	NC
43.05	499.	ND	7.0	1730.	1.32	19.4	148.	ND	NC	115.	NC	NC
43.20	505.	ND	6.5	1606.	1.39	23.6	167.	ND	NC	116.	NC	NC
43.35	499.	ND	7.2	1774.	1.20	11.9	94.	ND	NC	115.	NC	NC
43.50	486.	ND	7.4	1822.	1.21	12.4	100.	ND	NC	112.	NC	NC
43.65	503.	ND	7.3	1789.	1.31	18.9	149.	ND	NC	116.	NC	NC
43.80	477.	ND	7.0	1724.	1.29	17.5	133.	ND	NC	110.	NC	NC
43.95	492.	ND	7.7	1905.	1.27	16.1	135.	ND	NC	113.	NC	NC
44.10	489.	ND	7.9	1942.	1.24	14.4	123.	ND	NC	113.	NC	NC
44.25	488.	ND	7.9	1937.	1.25	15.3	131.	ND	NC	112.	NC	NC
44.40	476.	ND	7.8	1912.	1.18	10.7	90.	ND	NC	108.	NC	NC
44.55	459.	ND	7.9	1944.	1.11	6.4	55.	ND	NC	106.	NC	NC
44.70	473.	ND	8.7	2128.	1.10	6.0	56.	ND	NC	109.	NC	NC
44.85	484.	ND	8.4	2065.	1.13	7.8	71.	ND	NC	111.	NC	NC
45.00	473.	ND	8.6	2111.	1.07	4.3	40.	ND	NC	109.	NC	NC
45.15	472.	ND	8.8	2158.	1.08	4.6	44.	ND	NC	108.	NC	NC
45.30	475.	ND	8.9	2179.	1.08	4.8	46.	ND	NC	109.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 30 78
RUN NUMBER- 12
SEGMENT NUMBER- 1
WATER DEPTH- 15 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	512.	ND	8.5	2080.	1.18	10.7	98.	ND	NC	118.	NC	NC
0.15	547.	ND	8.8	2169.	1.12	7.3	70.	ND	NC	126.	NC	NC
0.30	550.	ND	8.7	2147.	1.09	5.2	49.	ND	NC	127.	NC	NC
0.45	555.	ND	9.0	2214.	1.29	17.6	172.	ND	NC	128.	NC	NC
0.60	573.	ND	9.6	2370.	1.17	10.4	109.	ND	NC	132.	NC	NC
0.75	565.	ND	9.5	2336.	1.17	10.1	103.	ND	NC	131.	NC	NC
0.90	573.	ND	9.0	2203.	1.14	8.7	85.	ND	NC	132.	NC	NC
1.05	605.	ND	8.0	1969.	1.18	10.7	93.	ND	NC	139.	NC	NC
1.20	591.	ND	7.0	1731.	1.18	11.0	84.	ND	NC	136.	NC	NC
1.35	565.	ND	8.5	2102.	1.12	7.1	66.	ND	NC	130.	NC	NC
1.50	583.	ND	9.3	2279.	1.11	6.9	70.	ND	NC	134.	NC	NC
1.65	601.	ND	9.9	2440.	1.18	10.7	115.	ND	NC	138.	NC	NC
1.80	592.	ND	7.8	1911.	1.06	3.4	29.	ND	NC	136.	NC	NC
1.95	585.	ND	6.7	1660.	1.12	7.0	51.	ND	NC	134.	NC	NC
2.10	587.	ND	8.3	2031.	1.12	7.4	56.	ND	NC	135.	NC	NC
2.25	589.	ND	8.8	2160.	1.12	7.0	67.	ND	NC	135.	NC	NC
2.40	569.	ND	8.2	2025.	1.19	11.3	101.	ND	NC	131.	NC	NC
2.55	566.	ND	7.9	1951.	1.33	19.9	171.	ND	NC	131.	NC	NC
2.70	588.	ND	8.1	1982.	1.45	27.3	239.	ND	NC	135.	NC	NC
2.85	572.	ND	8.6	2120.	1.36	22.0	206.	ND	NC	132.	NC	NC
3.00	558.	ND	8.4	2060.	1.13	7.7	70.	ND	NC	128.	NC	NC
3.15	597.	ND	8.1	1993.	1.31	19.1	168.	ND	NC	137.	NC	NC
3.30	617.	ND	6.2	1513.	1.06	3.7	25.	ND	NC	142.	NC	NC
3.45	595.	ND	6.2	1521.	1.18	10.7	72.	ND	NC	137.	NC	NC
3.60	571.	ND	6.9	1685.	1.21	12.9	96.	ND	NC	131.	NC	NC
3.75	588.	ND	8.2	2025.	1.31	19.0	170.	ND	NC	135.	NC	NC
3.90	576.	ND	8.5	2091.	1.24	14.7	135.	ND	NC	132.	NC	NC
4.05	568.	ND	4.2	1031.	1.02	1.4	6.	ND	NC	131.	NC	NC
4.20	609.	ND	3.7	910.	1.08	4.6	19.	ND	NC	140.	NC	NC
4.35	609.	ND	7.2	1776.	1.18	11.1	87.	ND	NC	140.	NC	NC
4.50	588.	ND	5.6	1373.	1.01	0.4	3.	ND	NC	135.	NC	NC
4.65	605.	ND	5.0	1218.	1.01	0.3	2.	ND	NC	139.	NC	NC
4.80	643.	ND	5.4	1319.	1.21	12.5	73.	ND	NC	148.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	594.	ND	6.7	1643.	1.38	23.1	168.	ND	NC	137.	NC	NC
5.10	551.	ND	8.3	2039.	1.16	9.5	86.	ND	NC	127.	NC	NC
5.25	567.	ND	9.0	2217.	1.09	5.4	53.	ND	NC	130.	NC	NC
5.40	608.	ND	9.5	2337.	1.05	3.0	31.	ND	NC	140.	NC	NC
5.55	593.	ND	6.8	1660.	1.01	0.5	4.	ND	NC	136.	NC	NC
5.70	565.	ND	7.5	1853.	1.01	0.5	4.	ND	NC	130.	NC	NC
5.85	555.	ND	9.1	2243.	1.02	1.3	13.	ND	NC	128.	NC	NC
6.00	552.	ND	9.7	2376.	1.07	3.9	41.	ND	NC	127.	NC	NC
6.15	547.	ND	9.3	2299.	1.08	4.9	50.	ND	NC	126.	NC	NC
6.30	535.	ND	9.4	2311.	1.08	4.8	49.	ND	NC	123.	NC	NC
6.45	558.	ND	10.2	2507.	1.08	4.7	52.	ND	NC	128.	NC	NC
6.60	551.	ND	10.1	2482.	1.06	3.6	39.	ND	NC	127.	NC	NC
6.75	541.	ND	9.8	2409.	1.04	2.3	24.	ND	NC	124.	NC	NC
6.90	552.	ND	10.0	2456.	1.06	3.6	39.	ND	NC	127.	NC	NC
7.05	567.	ND	9.6	2354.	1.16	9.4	98.	ND	NC	130.	NC	NC
7.20	535.	ND	9.2	2257.	1.09	5.7	56.	ND	NC	123.	NC	NC
7.35	549.	ND	9.2	2270.	1.04	2.6	26.	ND	NC	126.	NC	NC
7.50	563.	ND	9.7	2382.	1.02	1.2	13.	ND	NC	130.	NC	NC
7.65	555.	ND	9.8	2409.	1.11	6.5	69.	ND	NC	128.	NC	NC
7.80	544.	ND	8.9	2200.	1.11	6.6	54.	ND	NC	125.	NC	NC
7.95	563.	ND	10.2	2518.	1.04	2.7	29.	ND	NC	130.	NC	NC
8.10	574.	ND	9.8	2407.	1.01	0.4	4.	ND	NC	132.	NC	NC
8.25	573.	ND	6.6	1633.	1.01	0.3	2.	ND	NC	132.	NC	NC
8.40	575.	ND	7.0	1730.	1.01	0.3	2.	ND	NC	132.	NC	NC
8.55	581.	ND	8.0	1968.	1.01	0.3	3.	ND	NC	134.	NC	NC
8.70	577.	ND	7.3	1803.	1.00	0.	0.	ND	NC	133.	NC	NC
8.85	564.	ND	8.3	2050.	1.00	0.	0.	ND	NC	130.	NC	NC
9.00	529.	ND	9.8	2408.	1.02	1.1	12.	ND	NC	122.	NC	NC
9.15	543.	ND	10.5	2575.	1.05	3.0	34.	ND	NC	125.	NC	NC
9.30	553.	ND	10.6	2599.	1.02	1.5	17.	ND	NC	127.	NC	NC
9.45	551.	ND	7.7	1904.	1.01	0.4	3.	ND	NC	127.	NC	NC
9.60	558.	ND	10.5	2572.	1.01	0.3	4.	ND	NC	128.	NC	NC
9.75	561.	ND	10.5	2574.	1.01	0.4	5.	ND	NC	129.	NC	NC
9.90	539.	ND	9.0	2211.	1.02	1.3	13.	ND	NC	124.	NC	NC
10.05	548.	ND	9.5	2341.	1.09	5.5	57.	ND	NC	126.	NC	NC
10.20	553.	ND	9.0	2223.	1.13	7.7	76.	ND	NC	127.	NC	NC
10.35	551.	ND	8.5	2082.	1.13	8.0	74.	ND	NC	127.	NC	NC
10.50	540.	ND	8.2	2023.	1.11	6.7	60.	ND	NC	124.	NC	NC
10.65	565.	ND	8.4	2074.	1.21	12.4	114.	ND	NC	130.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	565.	ND	8.8	2165.	1.25	14.9	142.	ND	NC	130.	NC	NC
10.95	578.	ND	9.2	2256.	1.15	9.0	90.	ND	NC	133.	NC	NC
11.10	601.	ND	7.2	1771.	1.03	1.7	13.	ND	NC	138.	NC	NC
11.25	611.	ND	3.7	905.	1.06	3.8	15.	ND	NC	141.	NC	NC
11.40	597.	ND	5.3	1313.	1.01	0.4	2.	ND	NC	137.	NC	NC
11.55	577.	ND	5.6	1384.	1.01	0.4	3.	ND	NC	133.	NC	NC
11.70	594.	ND	6.0	1477.	1.01	0.5	3.	ND	NC	137.	NC	NC
11.85	573.	ND	8.1	1991.	1.02	1.4	12.	ND	NC	132.	NC	NC
12.00	551.	ND	9.2	2257.	1.03	1.9	19.	ND	NC	127.	NC	NC
12.15	541.	ND	8.7	2142.	1.03	1.9	18.	ND	NC	124.	NC	NC
12.30	561.	ND	9.6	2361.	1.09	5.2	54.	ND	NC	129.	NC	NC
12.45	550.	ND	9.6	2361.	1.09	5.5	57.	ND	NC	126.	NC	NC
12.60	531.	ND	9.3	2285.	1.06	3.5	35.	ND	NC	122.	NC	NC
12.75	535.	ND	9.7	2389.	1.07	4.5	47.	ND	NC	123.	NC	NC
12.90	562.	ND	10.3	2528.	1.04	2.5	28.	ND	NC	129.	NC	NC
13.05	545.	ND	10.2	2504.	1.03	2.0	23.	ND	NC	125.	NC	NC
13.20	536.	ND	10.0	2456.	1.04	2.7	29.	ND	NC	123.	NC	NC
13.35	551.	ND	10.1	2483.	1.08	4.8	53.	ND	NC	127.	NC	NC
13.50	557.	ND	9.8	2398.	1.11	6.7	71.	ND	NC	128.	NC	NC
13.65	545.	ND	8.9	2186.	1.11	6.8	66.	ND	NC	125.	NC	NC
13.80	558.	ND	9.2	2257.	1.09	5.6	56.	ND	NC	128.	NC	NC
13.95	556.	ND	9.5	2335.	1.12	7.5	77.	ND	NC	128.	NC	NC
14.10	544.	ND	9.1	2231.	1.13	7.6	75.	ND	NC	125.	NC	NC
14.25	538.	ND	8.8	2160.	1.09	5.6	54.	ND	NC	124.	NC	NC
14.40	553.	ND	9.2	2259.	1.12	7.5	75.	ND	NC	127.	NC	NC
14.55	550.	ND	9.5	2346.	1.15	8.9	92.	ND	NC	127.	NC	NC
14.70	538.	ND	9.0	2208.	1.12	7.0	68.	ND	NC	124.	NC	NC
14.85	528.	ND	8.8	2160.	1.10	5.9	56.	ND	NC	121.	NC	NC
15.00	554.	ND	9.0	2213.	1.13	8.1	79.	ND	NC	127.	NC	NC
15.15	545.	ND	8.5	2078.	1.15	9.3	85.	ND	NC	125.	NC	NC
15.30	531.	ND	8.3	2037.	1.09	5.3	48.	ND	NC	122.	NC	NC
15.45	570.	ND	7.9	1940.	1.05	3.1	26.	ND	NC	131.	NC	NC
15.60	584.	ND	7.4	1832.	1.02	1.3	10.	ND	NC	134.	NC	NC
15.75	569.	ND	8.3	2043.	1.01	0.4	4.	ND	NC	131.	NC	NC
15.90	528.	ND	8.7	2134.	1.04	2.2	21.	ND	NC	121.	NC	NC
16.05	565.	ND	9.0	2219.	1.12	7.1	70.	ND	NC	130.	NC	NC
16.20	572.	ND	9.5	2342.	1.12	7.0	72.	ND	NC	131.	NC	NC
16.35	561.	ND	6.8	1675.	1.02	1.0	7.	ND	NC	129.	NC	NC
16.50	555.	ND	9.5	2337.	1.01	0.4	4.	ND	NC	128.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	554.	ND	10.6	2600.	1.01	0.3	4.	ND	NC	127.	NC	NC
16.80	549.	ND	9.3	2278.	1.07	4.3	43.	ND	NC	126.	NC	NC
16.95	544.	ND	9.2	2253.	1.09	5.4	54.	ND	NC	125.	NC	NC
17.10	542.	ND	10.2	2507.	1.06	3.8	42.	ND	NC	125.	NC	NC
17.25	532.	ND	10.8	2665.	1.06	3.8	44.	ND	NC	122.	NC	NC
17.40	524.	ND	10.2	2519.	1.02	1.4	16.	ND	NC	121.	NC	NC
17.55	528.	ND	9.7	2382.	1.08	4.6	48.	ND	NC	121.	NC	NC
17.70	542.	ND	9.4	2304.	1.16	9.9	101.	ND	NC	125.	NC	NC
17.85	539.	ND	9.4	2305.	1.08	4.6	47.	ND	NC	124.	NC	NC
18.00	530.	ND	9.5	2336.	1.05	3.1	32.	ND	NC	122.	NC	NC
18.15	544.	ND	10.2	2502.	1.11	6.5	71.	ND	NC	125.	NC	NC
18.30	555.	ND	9.6	2361.	1.25	14.9	155.	ND	NC	128.	NC	NC
18.45	536.	ND	8.7	2141.	1.12	7.0	67.	ND	NC	123.	NC	NC
18.60	554.	ND	9.2	2268.	1.07	4.4	44.	ND	NC	128.	NC	NC
18.75	547.	ND	9.6	2357.	1.08	5.1	53.	ND	NC	126.	NC	NC
18.90	539.	ND	9.1	2236.	1.09	5.7	57.	ND	NC	124.	NC	NC
19.05	538.	ND	8.4	2071.	1.11	6.5	59.	ND	NC	124.	NC	NC
19.20	557.	ND	8.9	2200.	1.11	6.7	65.	ND	NC	128.	NC	NC
19.35	550.	ND	10.9	2687.	1.04	2.2	26.	ND	NC	127.	NC	NC
19.50	539.	ND	9.7	2382.	1.10	5.8	61.	ND	NC	124.	NC	NC
19.65	554.	ND	9.3	2289.	1.08	5.1	52.	ND	NC	128.	NC	NC
19.80	551.	ND	9.5	2324.	1.14	8.2	84.	ND	NC	127.	NC	NC
19.95	540.	ND	9.2	2275.	1.08	4.9	49.	ND	NC	124.	NC	NC
20.10	528.	ND	9.3	2292.	1.05	2.9	29.	ND	NC	121.	NC	NC
20.25	550.	ND	9.2	2270.	1.08	4.8	48.	ND	NC	127.	NC	NC
20.40	555.	ND	8.9	2185.	1.14	8.6	83.	ND	NC	128.	NC	NC
20.55	548.	ND	8.6	2109.	1.13	7.7	72.	ND	NC	126.	NC	NC
20.70	556.	ND	7.9	1945.	1.03	1.9	16.	ND	NC	128.	NC	NC
20.85	569.	ND	10.0	2468.	1.01	0.3	4.	ND	NC	131.	NC	NC
21.00	561.	ND	8.6	2109.	1.01	0.4	4.	ND	NC	129.	NC	NC
21.15	552.	ND	8.2	2006.	1.03	2.1	18.	ND	NC	127.	NC	NC
21.30	566.	ND	8.9	2176.	1.11	6.8	66.	ND	NC	130.	NC	NC
21.45	579.	ND	8.4	2060.	1.04	2.6	24.	ND	NC	133.	NC	NC
21.60	582.	ND	8.0	1956.	1.01	0.4	3.	ND	NC	134.	NC	NC
21.75	550.	ND	9.1	2244.	1.02	1.0	10.	ND	NC	127.	NC	NC
21.90	555.	ND	9.4	2303.	1.07	4.0	41.	ND	NC	128.	NC	NC
22.05	565.	ND	11.5	2827.	1.07	4.4	55.	ND	NC	130.	NC	NC
22.20	561.	ND	8.5	2099.	1.01	0.4	4.	ND	NC	129.	NC	NC
22.35	558.	ND	9.9	2444.	1.00	0.	0.	ND	NC	128.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	564.	ND	10.0	2466.	1.01	0.4	4.	ND	NC	130.	NC	NC
22.65	549.	ND	9.5	2337.	1.01	0.7	7.	ND	NC	126.	NC	NC
22.80	546.	ND	8.8	2164.	1.04	2.2	21.	ND	NC	126.	NC	NC
22.95	583.	ND	8.2	2018.	1.04	2.4	22.	ND	NC	134.	NC	NC
23.10	583.	ND	8.2	2025.	1.01	0.7	6.	ND	NC	134.	NC	NC
23.25	559.	ND	9.8	2404.	1.01	0.4	5.	ND	NC	129.	NC	NC
23.40	574.	ND	7.8	1909.	1.01	0.4	3.	ND	NC	132.	NC	NC
23.55	585.	ND	9.0	2205.	1.01	0.5	5.	ND	NC	135.	NC	NC
23.70	558.	ND	9.8	2402.	1.05	2.8	30.	ND	NC	128.	NC	NC
23.85	549.	ND	9.8	2406.	1.04	2.2	23.	ND	NC	126.	NC	NC
24.00	530.	ND	9.8	2417.	1.04	2.5	26.	ND	NC	122.	NC	NC
24.15	566.	ND	9.6	2351.	1.02	1.5	15.	ND	NC	131.	NC	NC
24.30	557.	ND	9.7	2382.	1.01	0.3	3.	ND	NC	128.	NC	NC
24.45	540.	ND	10.9	2687.	1.01	0.5	6.	ND	NC	124.	NC	NC
24.60	541.	ND	11.1	2719.	1.03	1.8	21.	ND	NC	124.	NC	NC
24.75	539.	ND	10.4	2566.	1.06	3.8	43.	ND	NC	124.	NC	NC
24.90	532.	ND	9.9	2429.	1.06	3.6	39.	ND	NC	122.	NC	NC
25.05	532.	ND	10.7	2623.	1.03	2.1	24.	ND	NC	122.	NC	NC
25.20	544.	ND	10.6	2600.	1.04	2.6	30.	ND	NC	125.	NC	NC
25.35	538.	ND	10.2	2515.	1.01	0.6	7.	ND	NC	124.	NC	NC
25.50	537.	ND	10.5	2582.	1.03	1.7	20.	ND	NC	124.	NC	NC
25.65	551.	ND	10.5	2590.	1.06	3.4	39.	ND	NC	127.	NC	NC
25.80	548.	ND	10.5	2577.	1.05	2.8	32.	ND	NC	126.	NC	NC
25.95	528.	ND	10.5	2576.	1.03	2.0	23.	ND	NC	121.	NC	NC
26.10	540.	ND	10.3	2538.	1.04	2.6	29.	ND	NC	124.	NC	NC
26.25	547.	ND	10.9	2672.	1.06	3.5	41.	ND	NC	126.	NC	NC
26.40	539.	ND	9.7	2397.	1.12	7.2	77.	ND	NC	124.	NC	NC
26.55	540.	ND	10.2	2504.	1.03	1.7	19.	ND	NC	124.	NC	NC
26.70	545.	ND	10.7	2643.	1.04	2.4	28.	ND	NC	125.	NC	NC
26.85	545.	ND	10.2	2518.	1.09	5.4	61.	ND	NC	125.	NC	NC
27.00	548.	ND	9.8	2398.	1.06	3.5	37.	ND	NC	126.	NC	NC
27.15	538.	ND	10.1	2491.	1.07	4.3	47.	ND	NC	124.	NC	NC
27.30	539.	ND	10.3	2532.	1.08	4.9	55.	ND	NC	124.	NC	NC
27.45	543.	ND	10.1	2475.	1.05	3.2	35.	ND	NC	125.	NC	NC
27.60	537.	ND	9.4	2301.	1.06	3.5	35.	ND	NC	124.	NC	NC
27.75	546.	ND	10.0	2463.	1.08	4.8	52.	ND	NC	126.	NC	NC
27.90	552.	ND	9.8	2410.	1.12	7.4	79.	ND	NC	127.	NC	NC
28.05	539.	ND	9.6	2351.	1.07	4.3	44.	ND	NC	124.	NC	NC
28.20	542.	ND	9.9	2440.	1.05	3.0	32.	ND	NC	125.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	557.	ND	10.1	2486.	1.08	4.8	52.	ND	NC	128.	NC	NC
28.50	554.	ND	9.9	2440.	1.11	6.5	70.	ND	NC	127.	NC	NC
28.65	533.	ND	9.1	2235.	1.11	6.5	64.	ND	NC	123.	NC	NC
28.80	540.	ND	9.3	2297.	1.10	6.3	64.	ND	NC	124.	NC	NC
28.95	547.	ND	9.7	2376.	1.12	7.0	74.	ND	NC	126.	NC	NC
29.10	542.	ND	9.9	2200.	1.12	7.3	70.	ND	NC	125.	NC	NC
29.25	544.	ND	8.7	2131.	1.10	6.2	58.	ND	NC	125.	NC	NC
29.40	565.	ND	10.1	2484.	1.12	7.4	82.	ND	NC	130.	NC	NC
29.55	539.	ND	8.8	2169.	1.04	2.6	25.	ND	NC	124.	NC	NC
29.70	537.	ND	8.6	2105.	1.02	1.0	9.	ND	NC	123.	NC	NC
29.85	556.	ND	8.9	2201.	1.01	0.6	5.	ND	NC	128.	NC	NC
30.00	588.	ND	8.6	2105.	1.01	0.6	5.	ND	NC	135.	NC	NC
30.15	587.	ND	8.2	2006.	1.01	0.5	4.	ND	NC	135.	NC	NC
30.30	573.	ND	7.8	1908.	1.01	0.3	3.	ND	NC	132.	NC	NC
30.45	555.	ND	7.4	1812.	1.01	0.3	2.	ND	NC	128.	NC	NC
30.60	533.	ND	8.2	2026.	1.02	1.1	10.	ND	NC	123.	NC	NC
30.75	536.	ND	5.0	1219.	1.00	0.	0.	ND	NC	123.	NC	NC
30.90	556.	ND	6.2	1518.	1.00	0.	0.	ND	NC	128.	NC	NC
31.05	569.	ND	6.7	1641.	1.01	0.3	2.	ND	NC	131.	NC	NC
31.20	573.	ND	7.4	1832.	1.01	0.3	3.	ND	NC	132.	NC	NC
31.35	558.	ND	9.0	2217.	1.01	0.3	3.	ND	NC	128.	NC	NC
31.50	497.	ND	9.8	2420.	1.04	2.5	26.	ND	NC	114.	NC	NC
31.65	482.	ND	9.3	2279.	1.10	6.3	63.	ND	NC	111.	NC	NC
31.80	472.	ND	8.9	2192.	1.08	5.0	48.	ND	NC	109.	NC	NC
31.95	480.	ND	8.7	2135.	1.05	3.2	30.	ND	NC	110.	NC	NC
32.10	491.	ND	8.3	2030.	1.20	12.3	111.	ND	NC	113.	NC	NC
32.25	480.	ND	8.2	2028.	1.15	9.1	81.	ND	NC	110.	NC	NC
32.40	476.	ND	8.5	2079.	1.09	5.7	52.	ND	NC	110.	NC	NC
32.55	484.	ND	8.8	2169.	1.07	4.4	42.	ND	NC	111.	NC	NC
32.70	485.	ND	8.8	2158.	1.11	6.4	61.	ND	NC	112.	NC	NC
32.85	475.	ND	7.9	1936.	1.15	8.9	76.	ND	NC	109.	NC	NC
33.00	461.	ND	8.2	2027.	1.12	7.4	67.	ND	NC	106.	NC	NC
33.15	463.	ND	9.0	2204.	1.08	5.0	49.	ND	NC	106.	NC	NC
33.30	480.	ND	8.4	2059.	1.07	4.3	39.	ND	NC	110.	NC	NC
33.45	471.	ND	8.2	2012.	1.06	3.5	31.	ND	NC	108.	NC	NC
33.60	464.	ND	8.2	2019.	1.11	6.6	59.	ND	NC	107.	NC	NC
33.75	470.	ND	8.5	2084.	1.07	4.4	40.	ND	NC	108.	NC	NC
33.90	475.	ND	9.6	2350.	1.01	0.7	8.	ND	NC	109.	NC	NC
34.05	442.	ND	8.7	2146.	1.05	2.8	27.	ND	NC	102.	NC	NC

RUN NUMBER- 12
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	469.	ND	7.3	1788.	1.10	5.9	46.	ND	NC	108.	NC	NC
34.35	477.	ND	7.9	1947.	1.08	5.1	44.	ND	NC	110.	NC	NC
34.50	477.	ND	6.0	1488.	1.01	0.5	3.	ND	NC	110.	NC	NC
34.65	490.	ND	7.0	1723.	1.01	0.5	4.	ND	NC	113.	NC	NC
34.80	497.	ND	8.2	2027.	1.00	0.	0.	ND	NC	114.	NC	NC
34.95	479.	ND	8.0	1966.	1.02	1.5	13.	ND	NC	110.	NC	NC
35.10	472.	ND	8.1	1996.	1.10	6.2	55.	ND	NC	108.	NC	NC
35.25	477.	ND	8.7	2135.	1.10	6.3	60.	ND	NC	110.	NC	NC
35.40	470.	ND	9.7	2380.	1.05	3.0	31.	ND	NC	108.	NC	NC
35.55	458.	ND	9.1	2245.	1.04	2.6	26.	ND	NC	105.	NC	NC
35.70	463.	ND	8.9	2197.	1.07	4.0	39.	ND	NC	106.	NC	NC
35.85	475.	ND	9.2	2254.	1.10	5.9	59.	ND	NC	109.	NC	NC
36.00	478.	ND	9.2	2265.	1.07	4.0	40.	ND	NC	110.	NC	NC
36.15	462.	ND	9.5	2333.	1.04	2.6	26.	ND	NC	106.	NC	NC
36.30	468.	ND	9.4	2304.	1.04	2.6	27.	ND	NC	108.	NC	NC
36.45	480.	ND	8.6	2120.	1.09	5.5	51.	ND	NC	110.	NC	NC
36.60	468.	ND	8.6	2120.	1.10	6.1	57.	ND	NC	108.	NC	NC
36.75	462.	ND	9.5	2327.	1.06	3.7	38.	ND	NC	106.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 30 78
RUN NUMBER- 13
SEGMENT NUMBER- 1
WATER DEPTH- 16 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.30
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	415.	ND	7.6	1873.	1.07	4.4	36.	ND	NC	96.	NC	NC
0.15	430.	ND	8.7	2139.	1.02	1.3	13.	ND	NC	99.	NC	NC
0.30	444.	ND	8.5	2100.	1.11	6.4	59.	ND	NC	102.	NC	NC
0.45	439.	ND	8.2	2027.	1.01	0.8	7.	ND	NC	101.	NC	NC
0.60	446.	ND	8.1	2000.	1.05	3.2	28.	ND	NC	103.	NC	NC
0.75	462.	ND	8.0	1974.	1.04	2.3	20.	ND	NC	106.	NC	NC
0.90	461.	ND	7.6	1879.	1.01	0.4	4.	ND	NC	106.	NC	NC
1.05	436.	ND	7.9	1943.	1.02	1.1	10.	ND	NC	100.	NC	NC
1.20	428.	ND	7.7	1904.	1.07	4.0	34.	ND	NC	99.	NC	NC
1.35	438.	ND	8.7	2135.	1.11	6.8	64.	ND	NC	101.	NC	NC
1.50	436.	ND	8.1	1987.	1.14	8.6	75.	ND	NC	100.	NC	NC
1.65	430.	ND	7.8	1918.	1.09	5.6	48.	ND	NC	99.	NC	NC
1.80	430.	ND	7.9	1947.	1.12	7.4	64.	ND	NC	99.	NC	NC
1.95	447.	ND	8.5	2102.	1.13	8.1	75.	ND	NC	103.	NC	NC
2.10	443.	ND	8.4	2061.	1.11	6.8	62.	ND	NC	102.	NC	NC
2.25	438.	ND	7.9	1952.	1.06	3.5	30.	ND	NC	101.	NC	NC
2.40	440.	ND	9.1	2234.	1.03	2.1	21.	ND	NC	101.	NC	NC
2.55	441.	ND	8.9	2196.	1.09	5.5	53.	ND	NC	101.	NC	NC
2.70	434.	ND	8.6	2126.	1.02	1.2	12.	ND	NC	100.	NC	NC
2.85	448.	ND	8.9	2188.	1.06	3.7	36.	ND	NC	103.	NC	NC
3.00	450.	ND	8.1	1984.	1.16	9.8	86.	ND	NC	104.	NC	NC
3.15	435.	ND	8.3	2034.	1.10	6.0	54.	ND	NC	100.	NC	NC
3.30	429.	ND	8.8	2162.	1.05	3.2	31.	ND	NC	99.	NC	NC
3.45	449.	ND	9.4	2304.	1.06	3.8	38.	ND	NC	103.	NC	NC
3.60	445.	ND	9.5	2325.	1.09	5.5	56.	ND	NC	102.	NC	NC
3.75	432.	ND	8.1	1985.	1.09	5.4	47.	ND	NC	99.	NC	NC
3.90	437.	ND	8.8	2158.	1.08	4.6	43.	ND	NC	100.	NC	NC
4.05	451.	ND	9.6	2354.	1.07	4.2	44.	ND	NC	104.	NC	NC
4.20	445.	ND	9.7	2395.	1.07	4.4	47.	ND	NC	102.	NC	NC
4.35	434.	ND	8.8	2171.	1.05	3.1	29.	ND	NC	100.	NC	NC
4.50	435.	ND	9.3	2288.	1.12	7.0	71.	ND	NC	100.	NC	NC
4.65	448.	ND	9.3	2282.	1.09	5.3	53.	ND	NC	103.	NC	NC
4.80	446.	ND	9.2	2253.	1.06	3.7	36.	ND	NC	103.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	430.	ND	9.1	2245.	1.05	3.1	31.	ND	NC	99.	NC	NC
5.10	439.	ND	9.6	2373.	1.08	5.1	54.	ND	NC	101.	NC	NC
5.25	439.	ND	8.6	2122.	1.10	5.9	55.	ND	NC	101.	NC	NC
5.40	424.	ND	9.0	2212.	1.05	3.0	30.	ND	NC	98.	NC	NC
5.55	435.	ND	9.6	2373.	1.05	2.9	30.	ND	NC	100.	NC	NC
5.70	440.	ND	9.5	2330.	1.07	4.0	41.	ND	NC	101.	NC	NC
5.85	433.	ND	8.7	2140.	1.06	3.4	32.	ND	NC	100.	NC	NC
6.00	433.	ND	9.0	2225.	1.06	3.5	34.	ND	NC	100.	NC	NC
6.15	448.	ND	9.6	2372.	1.03	2.1	22.	ND	NC	103.	NC	NC
6.30	445.	ND	9.9	2440.	1.01	0.9	9.	ND	NC	102.	NC	NC
6.45	431.	ND	9.7	2374.	1.04	2.2	23.	ND	NC	99.	NC	NC
6.60	447.	ND	8.9	2179.	1.05	3.0	29.	ND	NC	103.	NC	NC
6.75	447.	ND	10.9	2692.	1.03	1.6	19.	ND	NC	103.	NC	NC
6.90	450.	ND	8.5	2102.	1.01	0.7	7.	ND	NC	104.	NC	NC
7.05	443.	ND	8.2	2006.	1.01	0.5	5.	ND	NC	102.	NC	NC
7.20	440.	ND	9.4	2316.	1.00	0.	0.	ND	NC	101.	NC	NC
7.35	441.	ND	9.4	2306.	1.00	0.	0.	ND	NC	101.	NC	NC
7.50	412.	ND	9.5	2345.	1.03	1.7	18.	ND	NC	95.	NC	NC
7.65	414.	ND	8.7	2135.	1.03	1.8	17.	ND	NC	95.	NC	NC
7.80	414.	ND	10.7	2622.	1.01	0.4	4.	ND	NC	95.	NC	NC
7.95	406.	ND	10.7	2622.	1.01	0.4	5.	ND	NC	93.	NC	NC
8.10	399.	ND	9.2	2269.	1.02	1.3	13.	ND	NC	92.	NC	NC
8.25	402.	ND	9.3	2299.	1.06	3.9	40.	ND	NC	93.	NC	NC
8.40	410.	ND	9.9	2438.	1.04	2.6	28.	ND	NC	94.	NC	NC
8.55	403.	ND	10.0	2470.	1.03	2.1	23.	ND	NC	93.	NC	NC
8.70	404.	ND	9.7	2381.	1.03	1.9	19.	ND	NC	93.	NC	NC
8.85	415.	ND	9.7	2385.	1.05	2.8	29.	ND	NC	95.	NC	NC
9.00	415.	ND	9.8	2410.	1.05	2.9	31.	ND	NC	95.	NC	NC
9.15	441.	ND	9.5	2336.	1.04	2.4	25.	ND	NC	102.	NC	NC
9.30	497.	ND	9.9	2425.	1.06	3.4	36.	ND	NC	114.	NC	NC
9.45	518.	ND	10.5	2588.	1.11	6.7	77.	ND	NC	119.	NC	NC
9.60	518.	ND	10.6	2596.	1.07	4.3	50.	ND	NC	119.	NC	NC
9.75	505.	ND	10.6	2597.	1.04	2.7	31.	ND	NC	116.	NC	NC
9.90	518.	ND	10.5	2589.	1.05	3.2	37.	ND	NC	119.	NC	NC
10.05	528.	ND	10.2	2505.	1.13	7.7	86.	ND	NC	121.	NC	NC
10.20	533.	ND	9.3	2286.	1.13	7.9	80.	ND	NC	123.	NC	NC
10.35	515.	ND	9.4	2318.	1.08	5.0	51.	ND	NC	118.	NC	NC
10.50	526.	ND	10.2	2499.	1.07	4.5	50.	ND	NC	121.	NC	NC
10.65	541.	ND	9.7	2381.	1.07	4.4	46.	ND	NC	125.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	522.	ND	8.9	2188.	1.06	3.5	33.	ND	NC	120.	NC	NC
10.95	537.	ND	8.5	2080.	1.17	10.5	96.	ND	NC	123.	NC	NC
11.10	546.	ND	9.3	2298.	1.18	10.7	109.	ND	NC	126.	NC	NC
11.25	534.	ND	9.6	2353.	1.10	6.1	63.	ND	NC	123.	NC	NC
11.40	523.	ND	9.7	2390.	1.07	4.5	47.	ND	NC	120.	NC	NC
11.55	547.	ND	9.6	2362.	1.09	5.2	54.	ND	NC	126.	NC	NC
11.70	543.	ND	8.9	2180.	1.12	7.3	70.	ND	NC	125.	NC	NC
11.85	524.	ND	8.6	2103.	1.14	8.7	81.	ND	NC	121.	NC	NC
12.00	533.	ND	9.5	2332.	1.09	5.5	57.	ND	NC	123.	NC	NC
12.15	545.	ND	9.5	2340.	1.13	7.9	81.	ND	NC	125.	NC	NC
12.30	534.	ND	8.7	2150.	1.22	13.3	127.	ND	NC	123.	NC	NC
12.45	529.	ND	8.3	2036.	1.21	12.5	112.	ND	NC	122.	NC	NC
12.60	547.	ND	9.0	2213.	1.14	8.5	83.	ND	NC	126.	NC	NC
12.75	536.	ND	9.3	2297.	1.15	9.0	91.	ND	NC	123.	NC	NC
12.90	529.	ND	8.8	2153.	1.12	7.4	70.	ND	NC	122.	NC	NC
13.05	535.	ND	8.6	2120.	1.09	5.3	50.	ND	NC	123.	NC	NC
13.20	545.	ND	8.1	1985.	1.11	6.6	58.	ND	NC	125.	NC	NC
13.35	535.	ND	8.5	2083.	1.18	10.7	99.	ND	NC	123.	NC	NC
13.50	511.	ND	8.8	2165.	1.10	6.2	59.	ND	NC	117.	NC	NC
13.65	529.	ND	9.0	2204.	1.11	6.4	62.	ND	NC	122.	NC	NC
13.80	521.	ND	9.2	2266.	1.22	13.1	131.	ND	NC	120.	NC	NC
13.95	474.	ND	7.8	1907.	1.05	3.1	26.	ND	NC	109.	NC	NC
14.10	475.	ND	5.4	1319.	1.01	0.9	5.	ND	NC	109.	NC	NC
14.25	475.	ND	4.7	1145.	1.01	0.4	2.	ND	NC	109.	NC	NC
14.40	458.	ND	7.7	1882.	1.01	0.4	4.	ND	NC	105.	NC	NC
14.55	439.	ND	7.9	1954.	1.03	1.6	14.	ND	NC	101.	NC	NC
14.70	440.	ND	9.2	2263.	1.08	5.1	51.	ND	NC	101.	NC	NC
14.85	440.	ND	9.9	2447.	1.06	3.7	40.	ND	NC	101.	NC	NC
15.00	425.	ND	10.0	2470.	1.05	3.3	36.	ND	NC	98.	NC	NC
15.15	424.	ND	9.8	2409.	1.04	2.4	26.	ND	NC	98.	NC	NC
15.30	436.	ND	9.6	2355.	1.06	3.5	37.	ND	NC	100.	NC	NC
15.45	430.	ND	9.4	2315.	1.07	4.3	44.	ND	NC	99.	NC	NC
15.60	428.	ND	9.5	2336.	1.06	3.7	38.	ND	NC	98.	NC	NC
15.75	430.	ND	9.8	2400.	1.05	3.1	33.	ND	NC	99.	NC	NC
15.90	427.	ND	9.8	2419.	1.05	3.2	34.	ND	NC	99.	NC	NC
16.05	426.	ND	9.2	2265.	1.05	3.2	32.	ND	NC	98.	NC	NC
16.20	416.	ND	9.5	2339.	1.04	2.5	26.	ND	NC	96.	NC	NC
16.35	423.	ND	10.0	2449.	1.04	2.7	29.	ND	NC	97.	NC	NC
16.50	440.	ND	10.5	2579.	1.05	2.8	31.	ND	NC	101.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	457.	ND	9.8	2419.	1.04	2.2	24.	ND	NC	105.	NC	NC
16.80	477.	ND	9.9	2430.	1.05	2.9	31.	ND	NC	110.	NC	NC
16.95	509.	ND	10.0	2465.	1.06	3.9	43.	ND	NC	117.	NC	NC
17.10	509.	ND	10.1	2488.	1.07	3.9	43.	ND	NC	117.	NC	NC
17.25	494.	ND	10.0	2453.	1.04	2.5	28.	ND	NC	114.	NC	NC
17.40	513.	ND	10.0	2451.	1.04	2.4	26.	ND	NC	118.	NC	NC
17.55	515.	ND	9.5	2339.	1.13	8.1	83.	ND	NC	118.	NC	NC
17.70	507.	ND	9.1	2228.	1.10	6.3	62.	ND	NC	117.	NC	NC
17.85	497.	ND	9.2	2265.	1.09	5.3	53.	ND	NC	114.	NC	NC
18.00	522.	ND	9.9	2428.	1.07	4.3	46.	ND	NC	120.	NC	NC
18.15	516.	ND	9.2	2259.	1.10	6.1	60.	ND	NC	119.	NC	NC
18.30	518.	ND	8.4	2058.	1.14	8.5	77.	ND	NC	119.	NC	NC
18.45	521.	ND	8.8	2152.	1.12	7.6	72.	ND	NC	120.	NC	NC
18.60	525.	ND	9.5	2327.	1.13	8.2	84.	ND	NC	121.	NC	NC
18.75	515.	ND	8.6	2122.	1.12	7.1	66.	ND	NC	118.	NC	NC
18.90	513.	ND	8.8	2173.	1.08	4.6	44.	ND	NC	118.	NC	NC
19.05	536.	ND	7.7	1901.	1.18	10.8	90.	ND	NC	122.	NC	NC
19.20	543.	ND	5.4	1329.	1.09	5.2	31.	ND	NC	125.	NC	NC
19.35	546.	ND	5.8	1415.	1.01	0.4	3.	ND	NC	126.	NC	NC
19.50	529.	ND	6.7	1654.	1.01	0.4	3.	ND	NC	122.	NC	NC
19.65	554.	ND	7.3	1786.	1.01	0.5	4.	ND	NC	127.	NC	NC
19.80	546.	ND	9.1	2233.	1.04	2.5	24.	ND	NC	124.	NC	NC
19.95	555.	ND	5.7	1392.	1.09	5.5	34.	ND	NC	128.	NC	NC
20.10	554.	ND	6.9	1708.	1.01	0.3	2.	ND	NC	127.	NC	NC
20.25	554.	ND	8.9	2183.	1.01	0.4	4.	ND	NC	127.	NC	NC
20.40	546.	ND	8.0	1977.	1.01	0.5	5.	ND	NC	126.	NC	NC
20.55	533.	ND	7.6	1857.	1.35	21.1	173.	ND	NC	123.	NC	NC
20.70	537.	ND	8.3	2047.	1.32	19.3	175.	ND	NC	124.	NC	NC
20.85	523.	ND	8.7	2151.	1.23	13.9	132.	ND	NC	120.	NC	NC
21.00	492.	ND	8.6	2124.	1.14	8.4	79.	ND	NC	113.	NC	NC
21.15	534.	ND	9.0	2210.	1.09	5.4	53.	ND	NC	123.	NC	NC
21.30	554.	ND	7.5	1840.	1.09	5.4	44.	ND	NC	127.	NC	NC
21.45	542.	ND	5.0	1233.	1.13	7.9	43.	ND	NC	125.	NC	NC
21.60	542.	ND	6.4	1582.	1.14	8.7	61.	ND	NC	125.	NC	NC
21.75	541.	ND	7.4	1830.	1.03	1.7	13.	ND	NC	124.	NC	NC
21.90	530.	ND	8.8	2170.	1.01	0.8	8.	ND	NC	122.	NC	NC
22.05	515.	ND	6.6	1626.	1.02	1.1	8.	ND	NC	119.	NC	NC
22.20	560.	ND	4.9	1200.	1.13	7.9	42.	ND	NC	129.	NC	NC
22.35	565.	ND	5.2	1517.	1.08	4.7	31.	ND	NC	130.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	535.	ND	8.5	2089.	1.01	0.8	7.	ND	NC	123.	NC	NC
22.65	514.	ND	8.6	2113.	1.09	5.6	53.	ND	NC	118.	NC	NC
22.80	541.	ND	8.5	2088.	1.13	7.9	73.	ND	NC	124.	NC	NC
22.95	556.	ND	5.0	1231.	1.01	0.5	3.	ND	NC	128.	NC	NC
23.10	529.	ND	6.2	1531.	1.01	0.4	3.	ND	NC	122.	NC	NC
23.25	511.	ND	9.0	2210.	1.01	0.8	8.	ND	NC	118.	NC	NC
23.40	510.	ND	9.7	2383.	1.13	8.1	85.	ND	NC	117.	NC	NC
23.55	509.	ND	9.3	2050.	1.11	6.8	62.	ND	NC	117.	NC	NC
23.70	499.	ND	8.4	2075.	1.13	7.9	72.	ND	NC	115.	NC	NC
23.85	512.	ND	9.2	2273.	1.06	3.5	35.	ND	NC	118.	NC	NC
24.00	515.	ND	10.2	2514.	1.09	5.5	61.	ND	NC	118.	NC	NC
24.15	491.	ND	9.0	2224.	1.09	5.5	54.	ND	NC	113.	NC	NC
24.30	502.	ND	9.0	2205.	1.11	6.4	63.	ND	NC	115.	NC	NC
24.45	512.	ND	9.1	2229.	1.16	9.5	94.	ND	NC	118.	NC	NC
24.60	502.	ND	9.3	2288.	1.09	5.3	54.	ND	NC	115.	NC	NC
24.75	502.	ND	9.5	2326.	1.05	3.1	31.	ND	NC	116.	NC	NC
24.90	511.	ND	9.0	2220.	1.16	9.5	93.	ND	NC	118.	NC	NC
25.05	521.	ND	8.5	2081.	1.21	12.5	115.	ND	NC	120.	NC	NC
25.20	517.	ND	8.5	2079.	1.16	9.8	90.	ND	NC	119.	NC	NC
25.35	496.	ND	8.9	2177.	1.11	6.6	64.	ND	NC	114.	NC	NC
25.50	522.	ND	8.5	2090.	1.13	7.7	71.	ND	NC	120.	NC	NC
25.65	520.	ND	10.6	2613.	1.17	10.6	122.	ND	NC	119.	NC	NC
25.80	530.	ND	6.9	1709.	1.01	0.4	3.	ND	NC	122.	NC	NC
25.95	545.	ND	5.6	1387.	1.01	0.6	3.	ND	NC	125.	NC	NC
26.10	534.	ND	7.0	1732.	1.01	0.5	4.	ND	NC	123.	NC	NC
26.25	517.	ND	8.1	1989.	1.02	1.5	13.	ND	NC	119.	NC	NC
26.40	510.	ND	8.3	2047.	1.03	2.0	18.	ND	NC	117.	NC	NC
26.55	529.	ND	7.3	1806.	1.03	1.6	12.	ND	NC	122.	NC	NC
26.70	523.	ND	7.2	1775.	1.01	0.4	3.	ND	NC	120.	NC	NC
26.85	495.	ND	9.4	2324.	1.01	0.8	8.	ND	NC	114.	NC	NC
27.00	516.	ND	9.6	2365.	1.05	3.2	33.	ND	NC	119.	NC	NC
27.15	526.	ND	9.2	2261.	1.12	7.0	70.	ND	NC	121.	NC	NC
27.30	512.	ND	8.9	2191.	1.10	5.9	57.	ND	NC	118.	NC	NC
27.45	509.	ND	9.3	2286.	1.07	4.1	41.	ND	NC	117.	NC	NC
27.60	516.	ND	9.6	2365.	1.05	3.2	34.	ND	NC	119.	NC	NC
27.75	508.	ND	9.8	2411.	1.06	3.6	38.	ND	NC	117.	NC	NC
27.90	500.	ND	8.8	2157.	1.08	4.6	44.	ND	NC	115.	NC	NC
28.05	512.	ND	8.7	2147.	1.08	4.8	45.	ND	NC	118.	NC	NC
28.20	522.	ND	9.3	2298.	1.10	6.0	61.	ND	NC	120.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	519.	ND	8.8	2173.	1.06	3.8	36.	ND	NC	119.	NC	NC
28.50	509.	ND	8.7	2139.	1.05	2.8	26.	ND	NC	117.	NC	NC
28.65	517.	ND	8.6	2110.	1.17	10.5	98.	ND	NC	119.	NC	NC
28.80	526.	ND	8.3	2037.	1.05	3.2	29.	ND	NC	121.	NC	NC
28.95	487.	ND	8.4	2062.	1.06	3.6	32.	ND	NC	112.	NC	NC
29.10	448.	ND	7.8	1911.	1.07	4.2	36.	ND	NC	103.	NC	NC
29.25	516.	ND	6.5	1587.	1.05	3.1	22.	ND	NC	119.	NC	NC
29.40	528.	ND	7.0	1711.	1.01	0.6	5.	ND	NC	122.	NC	NC
29.55	512.	ND	4.6	1124.	1.01	0.3	2.	ND	NC	118.	NC	NC
29.70	539.	ND	5.0	1241.	1.00	0.	0.	ND	NC	124.	NC	NC
29.85	537.	ND	7.3	1789.	1.00	0.	0.	ND	NC	123.	NC	NC
30.00	517.	ND	8.2	2027.	1.01	0.4	4.	ND	NC	119.	NC	NC
30.15	521.	ND	8.2	2005.	1.13	7.9	70.	ND	NC	120.	NC	NC
30.30	529.	ND	8.9	2189.	1.02	1.0	10.	ND	NC	122.	NC	NC
30.45	513.	ND	9.4	2323.	1.07	4.0	41.	ND	NC	118.	NC	NC
30.60	501.	ND	9.4	2323.	1.06	3.7	38.	ND	NC	115.	NC	NC
30.75	512.	ND	9.5	2324.	1.08	4.6	48.	ND	NC	118.	NC	NC
30.90	514.	ND	8.6	2122.	1.16	9.4	88.	ND	NC	118.	NC	NC
31.05	503.	ND	8.4	2071.	1.17	10.5	96.	ND	NC	116.	NC	NC
31.20	503.	ND	8.7	2148.	1.11	6.4	61.	ND	NC	116.	NC	NC
31.35	512.	ND	10.0	2465.	1.06	3.6	39.	ND	NC	118.	NC	NC
31.50	514.	ND	9.0	2220.	1.09	5.3	52.	ND	NC	118.	NC	NC
31.65	504.	ND	8.8	2174.	1.06	3.7	36.	ND	NC	116.	NC	NC
31.80	504.	ND	8.7	2147.	1.13	8.2	77.	ND	NC	116.	NC	NC
31.95	515.	ND	8.8	2171.	1.08	4.6	44.	ND	NC	118.	NC	NC
32.10	512.	ND	9.5	2332.	1.04	2.6	27.	ND	NC	118.	NC	NC
32.25	500.	ND	8.9	2199.	1.06	3.6	35.	ND	NC	115.	NC	NC
32.40	517.	ND	9.1	2248.	1.13	8.0	79.	ND	NC	119.	NC	NC
32.55	529.	ND	8.6	2107.	1.29	17.4	162.	ND	NC	122.	NC	NC
32.70	506.	ND	7.8	1924.	1.11	6.6	56.	ND	NC	116.	NC	NC
32.85	456.	ND	6.8	1670.	1.06	3.8	28.	ND	NC	105.	NC	NC
33.00	506.	ND	6.7	1646.	1.10	5.8	42.	ND	NC	116.	NC	NC
33.15	520.	ND	5.9	1450.	1.04	2.7	17.	ND	NC	120.	NC	NC
33.30	522.	ND	4.6	1138.	1.03	2.0	10.	ND	NC	120.	NC	NC
33.45	544.	ND	6.2	1518.	1.04	2.2	15.	ND	NC	125.	NC	NC
33.60	520.	ND	8.1	1992.	1.02	1.4	12.	ND	NC	120.	NC	NC
33.75	512.	ND	8.0	1963.	1.11	6.4	56.	ND	NC	118.	NC	NC
33.90	510.	ND	8.2	2017.	1.12	7.5	67.	ND	NC	117.	NC	NC
34.05	511.	ND	9.1	2246.	1.12	7.4	73.	ND	NC	118.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	511.	ND	9.3	2299.	1.08	5.1	51.	ND	NC	118.	NC	NC
34.35	502.	ND	9.2	2255.	1.04	2.5	25.	ND	NC	116.	NC	NC
34.50	503.	ND	9.1	2233.	1.09	5.3	52.	ND	NC	116.	NC	NC
34.65	509.	ND	9.3	2278.	1.12	7.5	76.	ND	NC	117.	NC	NC
34.80	489.	ND	9.2	2268.	1.11	6.8	68.	ND	NC	112.	NC	NC
34.95	483.	ND	9.2	2268.	1.06	3.7	37.	ND	NC	111.	NC	NC
35.10	517.	ND	9.2	2260.	1.09	5.4	54.	ND	NC	119.	NC	NC
35.25	515.	ND	8.4	2069.	1.20	12.2	112.	ND	NC	118.	NC	NC
35.40	504.	ND	7.7	1889.	1.13	7.6	63.	ND	NC	116.	NC	NC
35.55	511.	ND	8.3	2037.	1.13	8.0	72.	ND	NC	117.	NC	NC
35.70	512.	ND	8.6	2117.	1.09	5.5	51.	ND	NC	118.	NC	NC
35.85	507.	ND	8.3	2036.	1.04	2.5	23.	ND	NC	117.	NC	NC
36.00	501.	ND	8.0	1974.	1.08	4.7	41.	ND	NC	115.	NC	NC
36.15	558.	ND	6.4	1574.	1.11	6.4	44.	ND	NC	128.	NC	NC
36.30	558.	ND	4.3	1063.	1.01	0.4	2.	ND	NC	128.	NC	NC
36.45	522.	ND	5.6	1378.	1.01	0.4	2.	ND	NC	120.	NC	NC
36.60	509.	ND	7.9	1935.	1.02	1.3	11.	ND	NC	117.	NC	NC
36.75	531.	ND	8.0	1967.	1.07	4.1	35.	ND	NC	122.	NC	NC
36.90	525.	ND	6.3	1547.	1.01	0.7	5.	ND	NC	121.	NC	NC
37.05	508.	ND	7.3	1785.	1.00	0.	0.	ND	NC	117.	NC	NC
37.20	502.	ND	8.9	2190.	1.01	0.3	3.	ND	NC	116.	NC	NC
37.35	515.	ND	9.8	2419.	1.03	1.6	17.	ND	NC	119.	NC	NC
37.50	510.	ND	9.0	2222.	1.08	5.0	49.	ND	NC	117.	NC	NC
37.65	500.	ND	9.5	2332.	1.07	4.0	41.	ND	NC	115.	NC	NC
37.80	504.	ND	10.0	2470.	1.06	3.5	38.	ND	NC	116.	NC	NC
37.95	512.	ND	9.9	2444.	1.05	2.9	32.	ND	NC	118.	NC	NC
38.10	496.	ND	9.8	2412.	1.04	2.3	25.	ND	NC	114.	NC	NC
38.25	496.	ND	9.5	2342.	1.08	4.6	47.	ND	NC	114.	NC	NC
38.40	510.	ND	9.6	2352.	1.09	5.5	57.	ND	NC	117.	NC	NC
38.55	514.	ND	9.6	2366.	1.06	3.8	40.	ND	NC	118.	NC	NC
38.70	487.	ND	9.6	2369.	1.05	2.9	30.	ND	NC	112.	NC	NC
38.85	521.	ND	9.4	2316.	1.09	5.4	55.	ND	NC	120.	NC	NC
39.00	515.	ND	9.1	2242.	1.12	7.1	70.	ND	NC	118.	NC	NC
39.15	500.	ND	9.0	2204.	1.10	6.1	59.	ND	NC	115.	NC	NC
39.30	502.	ND	9.7	2375.	1.08	4.7	49.	ND	NC	116.	NC	NC
39.45	511.	ND	8.8	2175.	1.07	4.2	40.	ND	NC	118.	NC	NC
39.60	503.	ND	10.3	2521.	1.05	3.2	35.	ND	NC	116.	NC	NC
39.75	508.	ND	7.9	1944.	1.01	0.6	5.	ND	NC	117.	NC	NC
39.90	523.	ND	6.9	1706.	1.00	0.	0.	ND	NC	120.	NC	NC

RUN NUMBER- 13
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	515.	ND	7.6	1863.	1.01	0.3	3.	ND	NC	118.	NC	NC
40.20	481.	ND	9.6	2349.	1.03	2.1	22.	ND	NC	111.	NC	NC
40.35	478.	ND	9.6	2368.	1.03	2.0	21.	ND	NC	110.	NC	NC
40.50	503.	ND	5.3	1296.	1.01	0.3	2.	ND	NC	116.	NC	NC
40.65	524.	ND	4.3	1056.	1.01	0.4	2.	ND	NC	121.	NC	NC
40.80	520.	ND	7.4	1827.	1.01	0.4	3.	ND	NC	120.	NC	NC
40.95	516.	ND	10.0	2448.	1.01	0.8	9.	ND	NC	119.	NC	NC
41.10	512.	ND	9.5	2332.	1.13	8.0	82.	ND	NC	118.	NC	NC
41.25	497.	ND	8.9	2197.	1.10	6.1	59.	ND	NC	114.	NC	NC
41.40	507.	ND	9.7	2387.	1.06	3.5	37.	ND	NC	117.	NC	NC
41.55	512.	ND	10.1	2478.	1.04	2.5	28.	ND	NC	118.	NC	NC
41.70	497.	ND	9.7	2394.	1.06	3.8	40.	ND	NC	114.	NC	NC
41.85	492.	ND	9.1	2237.	1.08	4.8	48.	ND	NC	113.	NC	NC
42.00	506.	ND	9.3	2287.	1.07	4.1	41.	ND	NC	116.	NC	NC
42.15	516.	ND	9.5	2347.	1.08	5.0	51.	ND	NC	119.	NC	NC
42.30	502.	ND	9.4	2324.	1.06	3.4	34.	ND	NC	115.	NC	NC
42.45	508.	ND	9.6	2363.	1.04	2.3	24.	ND	NC	117.	NC	NC
42.60	522.	ND	9.4	2315.	1.12	7.0	72.	ND	NC	120.	NC	NC
42.75	514.	ND	9.1	2240.	1.13	7.7	76.	ND	NC	118.	NC	NC
42.90	501.	ND	9.1	2246.	1.07	4.4	44.	ND	NC	115.	NC	NC
43.05	498.	ND	9.4	2319.	1.06	3.6	37.	ND	NC	114.	NC	NC
43.20	520.	ND	9.6	2370.	1.09	5.3	56.	ND	NC	120.	NC	NC
43.35	503.	ND	10.4	2553.	1.10	6.0	68.	ND	NC	116.	NC	NC
43.50	495.	ND	7.1	1755.	1.01	0.7	5.	ND	NC	114.	NC	NC
43.65	475.	ND	9.0	2213.	1.01	0.3	3.	ND	NC	109.	NC	NC
43.80	458.	ND	9.8	2408.	1.00	0.	0.	ND	NC	105.	NC	NC
43.95	444.	ND	9.9	2446.	1.01	0.3	4.	ND	NC	102.	NC	NC
44.10	453.	ND	9.2	2259.	1.06	3.9	39.	ND	NC	104.	NC	NC
44.25	459.	ND	9.7	2395.	1.05	2.8	29.	ND	NC	105.	NC	NC
44.40	447.	ND	10.3	2536.	1.04	2.2	24.	ND	NC	103.	NC	NC
44.55	446.	ND	10.0	2455.	1.03	1.9	21.	ND	NC	101.	NC	NC
44.70	454.	ND	10.2	2505.	1.04	2.2	24.	ND	NC	104.	NC	NC
44.85	461.	ND	9.4	2321.	1.05	3.3	33.	ND	NC	106.	NC	NC
45.00	449.	ND	9.1	2237.	1.04	2.7	27.	ND	NC	103.	NC	NC
45.15	450.	ND	9.5	2346.	1.03	1.9	19.	ND	NC	103.	NC	NC
45.30	455.	ND	9.7	2382.	1.03	1.9	20.	ND	NC	105.	NC	NC
45.45	452.	ND	9.4	2314.	1.04	2.3	24.	ND	NC	104.	NC	NC
45.60	451.	ND	8.6	2127.	1.04	2.7	26.	ND	NC	104.	NC	NC
45.75	465.	ND	8.3	2043.	1.21	12.7	115.	ND	NC	107.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 31 78
RUN NUMBER- 14
SEGMENT NUMBER- 1
WATER DEPTH- 8 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.30
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	460.	ND	6.6	1613.	1.04	2.2	15.	ND	NC	106.	NC	NC
0.15	463.	ND	6.9	1702.	1.03	1.9	14.	ND	NC	106.	NC	NC
0.30	442.	ND	7.3	1791.	1.03	2.0	16.	ND	NC	102.	NC	NC
0.45	460.	ND	6.6	1616.	1.04	2.1	15.	ND	NC	106.	NC	NC
0.60	446.	ND	6.6	1633.	1.03	2.1	15.	ND	NC	103.	NC	NC
0.75	438.	ND	6.9	1689.	1.03	1.9	14.	ND	NC	101.	NC	NC
0.90	457.	ND	6.9	1689.	1.03	1.9	14.	ND	NC	105.	NC	NC
1.05	455.	ND	6.8	1679.	1.03	2.1	16.	ND	NC	105.	NC	NC
1.20	456.	ND	7.0	1727.	1.04	2.2	17.	ND	NC	105.	NC	NC
1.35	453.	ND	6.5	1609.	1.03	2.0	14.	ND	NC	104.	NC	NC
1.50	443.	ND	6.6	1620.	1.03	2.0	15.	ND	NC	102.	NC	NC
1.65	437.	ND	6.9	1700.	1.03	2.0	15.	ND	NC	101.	NC	NC
1.80	462.	ND	7.2	1762.	1.03	1.6	13.	ND	NC	106.	NC	NC
1.95	445.	ND	6.7	1644.	1.03	1.6	12.	ND	NC	102.	NC	NC
2.10	435.	ND	6.7	1644.	1.04	2.5	18.	ND	NC	100.	NC	NC
2.25	445.	ND	6.8	1663.	1.06	3.4	25.	ND	NC	102.	NC	NC
2.40	454.	ND	6.7	1659.	1.05	2.8	21.	ND	NC	104.	NC	NC
2.55	457.	ND	7.0	1713.	1.04	2.2	17.	ND	NC	105.	NC	NC
2.70	463.	ND	6.8	1683.	1.03	2.1	16.	ND	NC	107.	NC	NC
2.85	484.	ND	6.7	1651.	1.04	2.2	16.	ND	NC	111.	NC	NC
3.00	486.	ND	6.9	1700.	1.04	2.4	18.	ND	NC	112.	NC	NC
3.15	498.	ND	7.4	1810.	1.04	2.6	21.	ND	NC	115.	NC	NC
3.30	513.	ND	7.1	1753.	1.04	2.3	18.	ND	NC	119.	NC	NC
3.45	505.	ND	6.9	1704.	1.03	1.8	14.	ND	NC	116.	NC	NC
3.60	499.	ND	7.5	1846.	1.03	1.8	15.	ND	NC	115.	NC	NC
3.75	506.	ND	7.2	1760.	1.05	2.8	21.	ND	NC	117.	NC	NC
3.90	505.	ND	7.1	1750.	1.04	2.7	21.	ND	NC	116.	NC	NC
4.05	507.	ND	7.5	1844.	1.04	2.7	22.	ND	NC	117.	NC	NC
4.20	517.	ND	7.3	1795.	1.04	2.2	18.	ND	NC	119.	NC	NC
4.35	505.	ND	7.1	1751.	1.03	2.1	16.	ND	NC	116.	NC	NC
4.50	499.	ND	7.1	1747.	1.04	2.5	19.	ND	NC	115.	NC	NC
4.65	517.	ND	7.2	1769.	1.05	2.9	23.	ND	NC	119.	NC	NC
4.80	512.	ND	7.1	1755.	1.05	2.8	22.	ND	NC	118.	NC	NC

RUN NUMBER- 14
SEGMENT NUMBER- 1

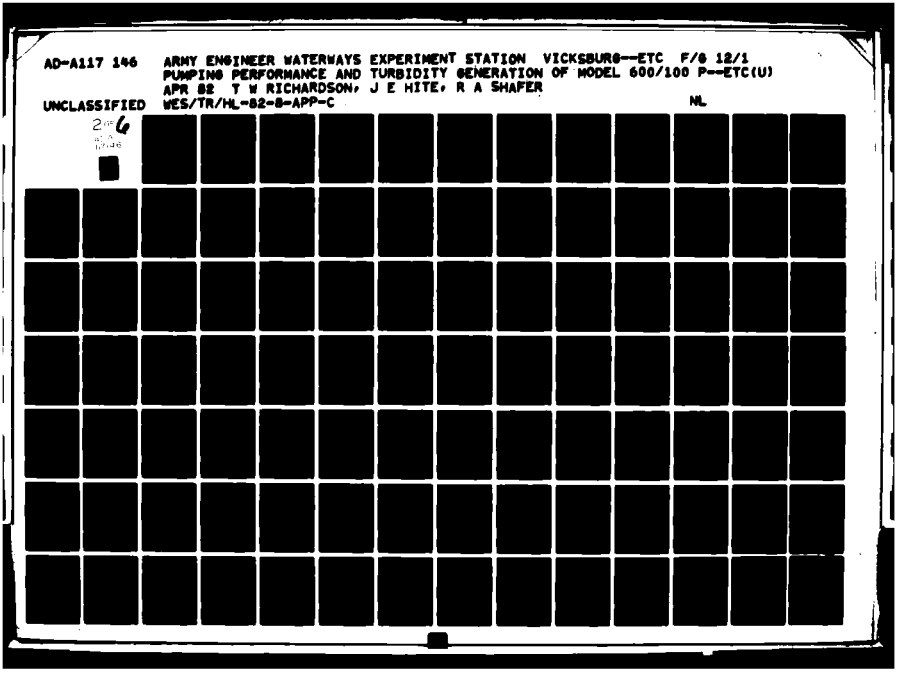
TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	488.	ND	7.2	1779.	1.04	2.5	20.	ND	NC	112.	NC	NC
5.10	503.	ND	7.3	1786.	1.03	2.0	16.	ND	NC	116.	NC	NC
5.25	516.	ND	7.1	1734.	1.07	4.0	30.	ND	NC	119.	NC	NC
5.40	492.	ND	7.1	1743.	1.04	2.7	21.	ND	NC	113.	NC	NC
5.55	504.	ND	7.3	1793.	1.06	3.8	30.	ND	NC	116.	NC	NC
5.70	510.	ND	7.1	1741.	1.04	2.7	21.	ND	NC	117.	NC	NC
5.85	498.	ND	7.0	1723.	1.04	2.2	17.	ND	NC	115.	NC	NC
6.00	489.	ND	7.0	1719.	1.10	6.2	47.	ND	NC	112.	NC	NC
6.15	506.	ND	6.8	1684.	1.09	5.4	40.	ND	NC	116.	NC	NC
6.30	504.	ND	7.0	1717.	1.07	4.5	34.	ND	NC	116.	NC	NC
6.45	496.	ND	7.2	1768.	1.06	3.6	28.	ND	NC	114.	NC	NC
6.60	508.	ND	6.4	1566.	1.06	3.7	25.	ND	NC	117.	NC	NC
6.75	512.	ND	6.1	1502.	1.05	3.0	20.	ND	NC	118.	NC	NC
6.90	513.	ND	6.2	1533.	1.13	8.0	54.	ND	NC	118.	NC	NC
7.05	518.	ND	6.9	1685.	1.12	7.5	56.	ND	NC	119.	NC	NC
7.20	522.	ND	7.3	1791.	1.09	5.5	43.	ND	NC	120.	NC	NC
7.35	498.	ND	7.3	1807.	1.07	4.0	32.	ND	NC	115.	NC	NC
7.50	510.	ND	7.3	1804.	1.10	6.4	51.	ND	NC	117.	NC	NC
7.65	511.	ND	6.8	1669.	1.14	8.6	63.	ND	NC	117.	NC	NC
7.80	506.	ND	7.0	1728.	1.12	7.2	55.	ND	NC	116.	NC	NC
7.95	504.	ND	7.5	1845.	1.12	7.0	57.	ND	NC	116.	NC	NC
8.10	505.	ND	7.0	1728.	1.08	4.6	35.	ND	NC	116.	NC	NC
8.25	489.	ND	6.8	1669.	1.07	4.5	33.	ND	NC	112.	NC	NC
8.40	505.	ND	6.7	1647.	1.07	4.4	32.	ND	NC	116.	NC	NC
8.55	533.	ND	5.7	1409.	1.05	3.1	19.	ND	NC	123.	NC	NC
8.70	522.	ND	5.3	1314.	1.02	1.3	8.	ND	NC	120.	NC	NC
8.85	476.	ND	6.4	1565.	1.05	3.2	22.	ND	NC	109.	NC	NC
9.00	509.	ND	6.1	1493.	1.08	5.0	33.	ND	NC	117.	NC	NC
9.15	509.	ND	6.8	1681.	1.02	1.1	8.	ND	NC	117.	NC	NC
9.30	513.	ND	5.3	1296.	1.01	0.9	5.	ND	NC	118.	NC	NC
9.45	520.	ND	4.5	1114.	1.01	0.5	2.	ND	NC	120.	NC	NC
9.60	514.	ND	4.2	1040.	1.01	0.4	2.	ND	NC	118.	NC	NC
9.75	499.	ND	4.4	1080.	1.03	2.0	10.	ND	NC	115.	NC	NC
9.90	508.	ND	5.3	1307.	1.05	3.1	18.	ND	NC	117.	NC	NC
10.05	522.	ND	4.8	1192.	1.03	1.8	9.	ND	NC	120.	NC	NC
10.20	511.	ND	3.8	923.	1.01	0.5	2.	ND	NC	118.	NC	NC
10.35	532.	ND	4.1	998.	1.01	0.4	2.	ND	NC	122.	NC	NC
10.50	535.	ND	4.0	995.	1.00	0.	0.	ND	NC	123.	NC	NC
10.65	513.	ND	4.4	1083.	1.01	0.5	2.	ND	NC	118.	NC	NC

RUN NUMBER- 14
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	516.	ND	6.0	1464.	1.14	8.7	56.	ND	NC	119.	NC	NC
10.95	518.	ND	5.8	1416.	1.05	3.3	21.	ND	NC	119.	NC	NC
11.10	493.	ND	6.4	1569.	1.07	4.0	28.	ND	NC	113.	NC	NC
11.25	485.	ND	7.0	1728.	1.07	4.4	33.	ND	NC	111.	NC	NC
11.40	510.	ND	7.1	1735.	1.03	2.0	15.	ND	NC	117.	NC	NC
11.55	501.	ND	6.9	1703.	1.06	3.6	27.	ND	NC	115.	NC	NC
11.70	497.	ND	7.3	1794.	1.09	5.3	42.	ND	NC	114.	NC	NC
11.85	499.	ND	7.8	1924.	1.10	6.1	52.	ND	NC	115.	NC	NC
12.00	504.	ND	7.4	1816.	1.08	4.7	38.	ND	NC	116.	NC	NC
12.15	507.	ND	7.2	1776.	1.06	3.4	27.	ND	NC	117.	NC	NC
12.30	498.	ND	7.5	1834.	1.08	5.0	40.	ND	NC	115.	NC	NC
12.45	502.	ND	7.3	1786.	1.09	5.2	41.	ND	NC	115.	NC	NC
12.60	492.	ND	7.7	1884.	1.08	4.7	39.	ND	NC	113.	NC	NC
12.75	485.	ND	7.7	1893.	1.05	3.2	27.	ND	NC	111.	NC	NC
12.90	497.	ND	7.4	1830.	1.06	3.4	27.	ND	NC	114.	NC	NC
13.05	496.	ND	7.4	1813.	1.06	3.8	30.	ND	NC	114.	NC	NC
13.20	496.	ND	7.8	1924.	1.06	3.9	33.	ND	NC	114.	NC	NC
13.35	500.	ND	7.9	1933.	1.07	4.4	37.	ND	NC	115.	NC	NC
13.50	493.	ND	7.6	1871.	1.06	3.8	31.	ND	NC	113.	NC	NC
13.65	494.	ND	7.7	1894.	1.07	3.9	33.	ND	NC	114.	NC	NC
13.80	512.	ND	7.7	1903.	1.08	5.1	42.	ND	NC	118.	NC	NC
13.95	505.	ND	7.7	1898.	1.08	5.1	43.	ND	NC	116.	NC	NC
14.10	485.	ND	7.8	1906.	1.08	4.7	39.	ND	NC	111.	NC	NC
14.25	497.	ND	8.0	1974.	1.07	4.0	35.	ND	NC	114.	NC	NC
14.40	481.	ND	7.6	1857.	1.04	2.7	22.	ND	NC	111.	NC	NC
14.55	485.	ND	7.2	1776.	1.05	3.1	24.	ND	NC	112.	NC	NC
14.70	498.	ND	7.3	1802.	1.10	6.1	48.	ND	NC	115.	NC	NC
14.85	511.	ND	5.9	1456.	1.01	0.7	4.	ND	NC	118.	NC	NC
15.00	499.	ND	6.8	1664.	1.01	0.4	3.	ND	NC	115.	NC	NC
15.15	476.	ND	7.3	1804.	1.05	3.1	25.	ND	NC	110.	NC	NC
15.30	501.	ND	7.0	1725.	1.03	1.9	15.	ND	NC	115.	NC	NC
15.45	496.	ND	6.6	1622.	1.05	3.0	22.	ND	NC	114.	NC	NC
15.60	502.	ND	6.4	1584.	1.03	1.9	14.	ND	NC	115.	NC	NC
15.75	510.	ND	6.4	1581.	1.04	2.2	15.	ND	NC	117.	NC	NC
15.90	498.	ND	7.1	1738.	1.08	4.7	36.	ND	NC	115.	NC	NC
16.05	494.	ND	7.0	1725.	1.06	3.5	26.	ND	NC	114.	NC	NC
16.20	501.	ND	7.6	1858.	1.04	2.7	22.	ND	NC	115.	NC	NC
16.35	496.	ND	6.4	1576.	1.07	4.1	28.	ND	NC	114.	NC	NC
16.50	500.	ND	6.5	1592.	1.03	1.9	13.	ND	NC	115.	NC	NC

AD-A117 146 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER

UNCLASSIFIED WES/TR/HL-82-8-APP-C NL



RUN NUMBER- 14
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.55	505.	ND	7.2	1775.	1.01	0.6	4.	ND	NC	116.	NC	NC
16.80	509.	ND	7.2	1760.	1.02	1.1	8.	ND	NC	115.	NC	NC
16.95	481.	ND	6.7	1645.	1.04	2.4	18.	ND	NC	111.	NC	NC
17.10	496.	ND	7.3	1806.	1.07	4.0	32.	ND	NC	114.	NC	NC
17.25	508.	ND	6.6	1622.	1.02	1.1	8.	ND	NC	117.	NC	NC
17.40	496.	ND	7.1	1746.	1.06	3.5	27.	ND	NC	114.	NC	NC
17.55	492.	ND	7.4	1812.	1.06	3.6	29.	ND	NC	113.	NC	NC
17.70	499.	ND	7.9	1940.	1.01	0.8	7.	ND	NC	115.	NC	NC
17.85	497.	ND	6.7	1650.	1.02	1.4	10.	ND	NC	114.	NC	NC
18.00	510.	ND	5.0	1229.	1.01	0.7	4.	ND	NC	117.	NC	NC
18.15	523.	ND	5.4	1326.	1.01	0.3	2.	ND	NC	120.	NC	NC
18.30	499.	ND	6.1	1499.	1.03	1.6	11.	ND	NC	115.	NC	NC
18.45	487.	ND	6.6	1635.	1.04	2.2	16.	ND	NC	112.	NC	NC
18.60	497.	ND	7.1	1744.	1.04	2.4	18.	ND	NC	114.	NC	NC
18.75	505.	ND	7.4	1811.	1.07	4.5	36.	ND	NC	116.	NC	NC
18.90	501.	ND	7.9	1935.	1.06	3.6	31.	ND	NC	115.	NC	NC
19.05	481.	ND	7.6	1879.	1.05	2.9	24.	ND	NC	111.	NC	NC
19.20	487.	ND	7.3	1801.	1.04	2.7	22.	ND	NC	112.	NC	NC
19.35	486.	ND	7.2	1772.	1.06	3.8	30.	ND	NC	112.	NC	NC
19.50	494.	ND	7.0	1730.	1.03	2.1	16.	ND	NC	114.	NC	NC
19.65	499.	ND	6.8	1676.	1.02	1.1	8.	ND	NC	115.	NC	NC
19.80	464.	ND	7.6	1867.	1.06	3.6	30.	ND	NC	107.	NC	NC
19.95	479.	ND	7.4	1826.	1.05	2.8	23.	ND	NC	110.	NC	NC
20.10	499.	ND	7.2	1759.	1.01	0.8	7.	ND	NC	115.	NC	NC
20.25	502.	ND	4.4	1070.	1.00	0.	0.	ND	NC	115.	NC	NC
20.40	519.	ND	4.2	1031.	1.01	0.4	2.	ND	NC	119.	NC	NC
20.55	515.	ND	4.3	1046.	1.01	0.4	2.	ND	NC	118.	NC	NC
20.70	497.	ND	4.5	1106.	1.01	0.4	2.	ND	NC	114.	NC	NC
20.85	498.	ND	5.9	1441.	1.01	0.6	4.	ND	NC	115.	NC	NC
21.00	514.	ND	5.5	1352.	1.01	0.4	3.	ND	NC	118.	NC	NC
21.15	498.	ND	4.2	1025.	1.00	0.	0.	ND	NC	115.	NC	NC
21.30	487.	ND	4.2	1034.	1.01	0.4	2.	ND	NC	112.	NC	NC
21.45	502.	ND	4.4	1084.	1.01	0.5	2.	ND	NC	115.	NC	NC
21.60	502.	ND	7.0	1732.	1.01	0.6	5.	ND	NC	115.	NC	NC
21.75	500.	ND	6.4	1573.	1.01	0.7	5.	ND	NC	115.	NC	NC
21.90	506.	ND	5.3	1300.	1.01	0.6	3.	ND	NC	116.	NC	NC
22.05	508.	ND	4.7	1163.	1.01	0.5	2.	ND	NC	117.	NC	NC
22.20	490.	ND	5.3	1304.	1.01	0.3	2.	ND	NC	113.	NC	NC
22.35	487.	ND	6.7	1644.	1.01	0.5	3.	ND	NC	112.	NC	NC

RUN NUMBER- 14
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	523.	ND	5.8	1431.	1.01	0.5	3.	ND	NC	120.	NC	NC
22.65	509.	ND	4.4	1082.	1.01	0.3	2.	ND	NC	117.	NC	NC
22.80	516.	ND	4.7	1151.	1.00	0.	0.	ND	NC	119.	NC	NC
22.95	537.	ND	4.8	1185.	1.00	0.	0.	ND	NC	124.	NC	NC
23.10	550.	ND	6.2	1528.	1.01	0.5	4.	ND	NC	127.	NC	NC
23.25	577.	ND	7.0	1733.	1.04	2.3	17.	ND	NC	133.	NC	NC
23.40	594.	ND	6.9	1687.	1.01	0.6	4.	ND	NC	137.	NC	NC
23.55	576.	ND	6.8	1673.	1.01	0.7	5.	ND	NC	133.	NC	NC
23.70	549.	ND	7.6	1675.	1.04	2.6	22.	ND	NC	126.	NC	NC
23.85	581.	ND	7.8	1907.	1.03	1.8	15.	ND	NC	134.	NC	NC
24.00	601.	ND	7.5	1838.	1.01	0.6	5.	ND	NC	138.	NC	NC
24.15	586.	ND	5.5	1347.	1.01	0.5	3.	ND	NC	135.	NC	NC
24.30	597.	ND	6.0	1469.	1.01	0.4	3.	ND	NC	137.	NC	NC
24.45	571.	ND	7.4	1822.	1.02	1.1	8.	ND	NC	131.	NC	NC
24.60	552.	ND	7.6	1863.	1.05	3.2	26.	ND	NC	127.	NC	NC
24.75	566.	ND	6.8	1683.	1.02	1.1	8.	ND	NC	130.	NC	NC
24.90	582.	ND	6.4	1584.	1.01	0.4	3.	ND	NC	134.	NC	NC
25.05	565.	ND	6.2	1534.	1.01	0.3	2.	ND	NC	130.	NC	NC
25.20	562.	ND	6.7	1637.	1.01	0.6	4.	ND	NC	129.	NC	NC
25.35	572.	ND	7.8	1913.	1.01	0.7	6.	ND	NC	132.	NC	NC
25.50	569.	ND	8.0	1978.	1.02	1.4	12.	ND	NC	131.	NC	NC
25.65	573.	ND	7.9	1943.	1.02	1.4	12.	ND	NC	132.	NC	NC
25.80	578.	ND	7.5	1833.	1.01	0.6	5.	ND	NC	133.	NC	NC
25.95	581.	ND	8.3	2049.	1.02	1.1	10.	ND	NC	134.	NC	NC
26.10	561.	ND	8.0	1978.	1.04	2.7	23.	ND	NC	129.	NC	NC
26.25	571.	ND	8.3	2033.	1.02	1.0	9.	ND	NC	131.	NC	NC
26.40	551.	ND	8.6	2104.	1.04	2.4	23.	ND	NC	127.	NC	NC
26.55	557.	ND	8.6	2111.	1.04	2.5	23.	ND	NC	128.	NC	NC
26.70	578.	ND	8.8	2162.	1.04	2.6	25.	ND	NC	133.	NC	NC
26.85	563.	ND	8.6	2105.	1.05	2.8	26.	ND	NC	129.	NC	NC
27.00	553.	ND	8.6	2110.	1.04	2.2	21.	ND	NC	127.	NC	NC
27.15	561.	ND	8.9	2177.	1.05	3.3	31.	ND	NC	129.	NC	NC
27.30	568.	ND	8.7	2137.	1.07	4.5	42.	ND	NC	131.	NC	NC
27.45	552.	ND	8.5	2084.	1.05	3.3	30.	ND	NC	127.	NC	NC
27.60	534.	ND	8.5	2082.	1.06	3.4	32.	ND	NC	123.	NC	NC
27.75	569.	ND	8.6	2124.	1.06	3.5	33.	ND	NC	131.	NC	NC
27.90	566.	ND	8.7	2129.	1.05	2.9	27.	ND	NC	130.	NC	NC
28.05	549.	ND	8.7	2146.	1.04	2.5	24.	ND	NC	126.	NC	NC
28.20	579.	ND	8.6	2110.	1.05	3.1	28.	ND	NC	133.	NC	NC

RUN NUMBER- 14
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	536.	ND	8.1	2003.	1.05	3.1	28.	ND	NC	123.	NC	NC
28.50	507.	ND	7.9	1947.	1.06	3.4	29.	ND	NC	117.	NC	NC
28.65	552.	ND	8.0	1969.	1.06	3.7	32.	ND	NC	127.	NC	NC
28.80	567.	ND	6.1	1495.	1.01	0.6	4.	ND	NC	135.	NC	NC
28.95	575.	ND	4.9	1200.	1.01	0.5	3.	ND	NC	132.	NC	NC
29.10	570.	ND	5.9	1439.	1.01	0.4	3.	ND	NC	131.	NC	NC
29.25	565.	ND	7.1	1734.	1.01	0.6	5.	ND	NC	130.	NC	NC
29.40	565.	ND	8.0	1965.	1.02	1.0	8.	ND	NC	130.	NC	NC
29.55	587.	ND	6.2	1521.	1.02	1.3	9.	ND	NC	135.	NC	NC
29.70	559.	ND	5.1	1251.	1.01	0.4	2.	ND	NC	128.	NC	NC
29.85	533.	ND	6.0	1464.	1.01	0.8	5.	ND	NC	123.	NC	NC
30.00	558.	ND	7.3	1784.	1.03	1.9	15.	ND	NC	128.	NC	NC
30.15	580.	ND	8.8	2154.	1.01	0.6	6.	ND	NC	133.	NC	NC
30.30	534.	ND	5.4	1323.	1.01	0.4	2.	ND	NC	123.	NC	NC
30.45	535.	ND	5.2	1279.	1.00	0.	0.	ND	NC	123.	NC	NC
30.60	558.	ND	6.3	1553.	1.01	0.3	2.	ND	NC	128.	NC	NC
30.75	537.	ND	7.3	1788.	1.01	0.5	4.	ND	NC	123.	NC	NC
30.90	543.	ND	7.4	1812.	1.04	2.2	17.	ND	NC	125.	NC	NC
31.05	597.	ND	7.6	1876.	1.03	1.9	16.	ND	NC	137.	NC	NC
31.20	589.	ND	5.6	1372.	1.00	0.	0.	ND	NC	135.	NC	NC
31.35	555.	ND	5.9	1453.	1.01	0.4	2.	ND	NC	128.	NC	NC
31.50	559.	ND	7.7	1887.	1.01	0.4	3.	ND	NC	129.	NC	NC
31.65	571.	ND	8.6	2105.	1.01	0.5	5.	ND	NC	131.	NC	NC
31.80	576.	ND	7.1	1734.	1.02	1.4	11.	ND	NC	132.	NC	NC
31.95	583.	ND	6.3	1543.	1.01	0.7	5.	ND	NC	134.	NC	NC
32.10	594.	ND	6.2	1536.	1.01	0.4	3.	ND	NC	137.	NC	NC
32.25	558.	ND	6.9	1706.	1.01	0.4	3.	ND	NC	128.	NC	NC
32.40	565.	ND	8.1	1995.	1.01	0.4	4.	ND	NC	130.	NC	NC
32.55	574.	ND	8.7	2131.	1.01	0.7	6.	ND	NC	132.	NC	NC
32.70	571.	ND	7.1	1747.	1.03	1.7	13.	ND	NC	131.	NC	NC
32.85	578.	ND	8.0	1974.	1.01	0.8	7.	ND	NC	133.	NC	NC
33.00	565.	ND	8.0	1957.	1.04	2.6	23.	ND	NC	130.	NC	NC
33.15	540.	ND	8.3	2052.	1.01	0.8	8.	ND	NC	124.	NC	NC
33.30	534.	ND	7.8	1915.	1.02	1.0	9.	ND	NC	123.	NC	NC
33.45	596.	ND	6.2	1515.	1.02	1.0	7.	ND	NC	137.	NC	NC
33.60	593.	ND	5.7	1412.	1.01	0.4	2.	ND	NC	136.	NC	NC
33.75	540.	ND	6.6	1632.	1.01	0.9	6.	ND	NC	124.	NC	NC
33.90	572.	ND	7.6	1868.	1.02	1.2	10.	ND	NC	132.	NC	NC
34.05	580.	ND	8.9	2188.	1.01	0.4	4.	ND	NC	133.	NC	NC

RUN NUMBER- 14
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	584.	ND	7.3	1768.	1.01	0.7	5.	ND	NC	134.	NC	NC
34.35	599.	ND	5.6	1377.	1.01	0.4	3.	ND	NC	138.	NC	NC
34.50	582.	ND	6.8	1664.	1.00	0.	0.	ND	NC	134.	NC	NC
34.65	566.	ND	7.5	1835.	1.03	1.9	15.	ND	NC	130.	NC	NC
34.80	570.	ND	7.2	1778.	1.04	2.2	18.	ND	NC	131.	NC	NC
34.95	591.	ND	7.2	1777.	1.01	0.7	6.	ND	NC	136.	NC	NC
35.10	563.	ND	5.3	1309.	1.00	0.	0.	ND	NC	129.	NC	NC
35.25	555.	ND	5.9	1460.	1.00	0.	0.	ND	NC	128.	NC	NC
35.40	571.	ND	7.0	1717.	1.01	0.3	2.	ND	NC	131.	NC	NC
35.55	520.	ND	8.7	2128.	1.01	0.7	6.	ND	NC	123.	NC	NC
35.70	491.	ND	6.8	1675.	1.01	0.6	4.	ND	NC	113.	NC	NC
35.85	493.	ND	5.9	1455.	1.00	0.	0.	ND	NC	113.	NC	NC
36.00	485.	ND	6.2	1531.	1.01	0.3	2.	ND	NC	112.	NC	NC
36.15	470.	ND	6.9	1706.	1.03	1.7	12.	ND	NC	108.	NC	NC
36.30	494.	ND	7.2	1759.	1.02	1.4	11.	ND	NC	114.	NC	NC
36.45	481.	ND	7.6	1868.	1.02	1.0	8.	ND	NC	111.	NC	NC
36.60	465.	ND	7.6	1867.	1.03	1.7	14.	ND	NC	107.	NC	NC
36.75	480.	ND	7.5	1843.	1.04	2.4	19.	ND	NC	110.	NC	NC
36.90	484.	ND	7.4	1814.	1.03	2.0	16.	ND	NC	111.	NC	NC
37.05	454.	ND	7.8	1919.	1.03	1.9	16.	ND	NC	104.	NC	NC
37.20	456.	ND	6.1	1492.	1.04	2.3	15.	ND	NC	105.	NC	NC
37.35	494.	ND	4.9	1203.	1.02	0.9	5.	ND	NC	114.	NC	NC
37.50	491.	ND	3.9	964.	1.00	0.	0.	ND	NC	113.	NC	NC
37.65	451.	ND	6.4	1586.	1.01	0.3	2.	ND	NC	104.	NC	NC
37.80	466.	ND	7.6	1867.	1.00	0.	0.	ND	NC	107.	NC	NC
37.95	469.	ND	8.1	1984.	1.01	0.4	4.	ND	NC	108.	NC	NC
38.10	406.	ND	8.4	2071.	1.00	0.	0.	ND	NC	93.	NC	NC
38.25	400.	ND	4.6	1141.	1.00	0.	0.	ND	NC	92.	NC	NC

LOCATION- LOCK & DAM #1
DATE OF TEST- 8 31 78
RUN NUMBER- 15
SEGMENT NUMBER- 1
WATER DEPTH- 10 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 67.3C
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	374.	ND	8.7	2134.	1.04	2.7	26.	ND	NC	86.	NC	NC
0.15	390.	ND	8.9	2193.	1.05	3.1	30.	ND	NC	90.	NC	NC
0.30	396.	ND	8.6	2106.	1.06	3.4	32.	ND	NC	91.	NC	NC
0.45	384.	ND	8.2	2005.	1.05	2.8	25.	ND	NC	88.	NC	NC
0.60	375.	ND	7.9	1938.	1.10	5.9	50.	ND	NC	86.	NC	NC
0.75	397.	ND	7.7	1894.	1.09	5.4	45.	ND	NC	91.	NC	NC
0.90	359.	ND	7.6	1871.	1.07	4.5	37.	ND	NC	92.	NC	NC
1.05	388.	ND	8.0	1956.	1.09	5.2	45.	ND	NC	89.	NC	NC
1.20	402.	ND	7.8	1917.	1.11	6.6	56.	ND	NC	92.	NC	NC
1.35	397.	ND	7.6	1860.	1.10	6.4	52.	ND	NC	91.	NC	NC
1.50	393.	ND	8.2	2018.	1.09	5.5	49.	ND	NC	90.	NC	NC
1.65	403.	ND	8.7	2152.	1.09	5.4	51.	ND	NC	93.	NC	NC
1.80	403.	ND	8.2	2022.	1.05	3.1	27.	ND	NC	93.	NC	NC
1.95	392.	ND	7.6	1876.	1.01	0.9	8.	ND	NC	90.	NC	NC
2.10	383.	ND	7.8	1910.	1.06	3.4	29.	ND	NC	88.	NC	NC
2.25	397.	ND	7.1	1736.	1.10	6.2	48.	ND	NC	91.	NC	NC
2.40	401.	ND	7.7	1896.	1.02	1.1	9.	ND	NC	92.	NC	NC
2.55	431.	ND	6.7	1637.	1.05	3.2	23.	ND	NC	99.	NC	NC
2.70	426.	ND	5.5	1351.	1.00	0.	0.	ND	NC	98.	NC	NC
2.85	406.	ND	6.4	1582.	1.01	0.3	2.	ND	NC	93.	NC	NC
3.00	393.	ND	7.7	1881.	1.01	0.5	4.	ND	NC	90.	NC	NC
3.15	399.	ND	9.4	2308.	1.04	2.5	26.	ND	NC	92.	NC	NC
3.30	411.	ND	7.4	1829.	1.02	1.4	11.	ND	NC	94.	NC	NC
3.45	420.	ND	5.1	1266.	1.01	0.6	3.	ND	NC	97.	NC	NC
3.60	424.	ND	6.3	1544.	1.01	0.3	2.	ND	NC	97.	NC	NC
3.75	409.	ND	6.8	1676.	1.01	0.4	3.	ND	NC	94.	NC	NC
3.90	404.	ND	8.4	2054.	1.01	0.4	4.	ND	NC	93.	NC	NC
4.05	419.	ND	6.3	1542.	1.01	0.5	4.	ND	NC	96.	NC	NC
4.20	421.	ND	5.3	1298.	1.01	0.4	2.	ND	NC	97.	NC	NC
4.35	406.	ND	6.8	1679.	1.01	0.6	4.	ND	NC	93.	NC	NC
4.50	396.	ND	7.5	1843.	1.01	0.7	6.	ND	NC	91.	NC	NC
4.65	409.	ND	8.7	2134.	1.02	1.4	13.	ND	NC	94.	NC	NC
4.80	409.	ND	9.7	2377.	1.02	1.3	14.	ND	NC	94.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	424.	ND	4.7	1165.	1.02	0.9	5.	ND	NC	97.	NC	NC
5.10	441.	ND	4.3	1066.	1.01	0.5	2.	ND	NC	101.	NC	NC
5.25	424.	ND	6.0	1478.	1.01	0.4	2.	ND	NC	97.	NC	NC
5.40	407.	ND	7.3	1785.	1.02	1.1	9.	ND	NC	94.	NC	NC
5.55	396.	ND	8.0	1975.	1.05	3.1	27.	ND	NC	91.	NC	NC
5.70	407.	ND	7.8	1916.	1.02	1.0	8.	ND	NC	93.	NC	NC
5.85	394.	ND	7.6	1873.	1.04	2.6	21.	ND	NC	91.	NC	NC
6.00	395.	ND	7.4	1826.	1.08	5.0	40.	ND	NC	91.	NC	NC
6.15	411.	ND	8.3	2033.	1.03	2.0	18.	ND	NC	95.	NC	NC
6.30	414.	ND	10.6	2604.	1.02	0.9	11.	ND	NC	95.	NC	NC
6.45	432.	ND	4.7	1149.	1.02	0.9	5.	ND	NC	99.	NC	NC
6.60	442.	ND	5.2	1268.	1.01	0.3	2.	ND	NC	102.	NC	NC
6.75	420.	ND	7.3	1796.	1.01	0.3	3.	ND	NC	96.	NC	NC
6.90	403.	ND	7.7	1892.	1.01	0.3	3.	ND	NC	93.	NC	NC
7.05	403.	ND	8.7	2148.	1.06	3.5	33.	ND	NC	93.	NC	NC
7.20	410.	ND	8.1	1984.	1.01	0.7	6.	ND	NC	94.	NC	NC
7.35	397.	ND	8.4	2057.	1.00	0.	0.	ND	NC	91.	NC	NC
7.50	392.	ND	8.6	2107.	1.05	3.0	28.	ND	NC	90.	NC	NC
7.65	407.	ND	8.6	2111.	1.04	2.4	22.	ND	NC	94.	NC	NC
7.80	409.	ND	8.3	2031.	1.04	2.5	23.	ND	NC	94.	NC	NC
7.95	398.	ND	7.9	1942.	1.08	5.1	44.	ND	NC	92.	NC	NC
8.10	402.	ND	7.7	1892.	1.11	6.8	56.	ND	NC	93.	NC	NC
8.25	403.	ND	7.7	1884.	1.11	6.7	56.	ND	NC	93.	NC	NC
8.40	387.	ND	7.7	1889.	1.07	4.3	36.	ND	NC	89.	NC	NC
8.55	390.	ND	7.7	1894.	1.07	4.5	38.	ND	NC	90.	NC	NC
8.70	396.	ND	7.5	1847.	1.11	6.8	56.	ND	NC	91.	NC	NC
8.85	396.	ND	7.6	1861.	1.10	6.3	52.	ND	NC	91.	NC	NC
9.00	381.	ND	7.7	1906.	1.10	5.9	50.	ND	NC	88.	NC	NC
9.15	389.	ND	7.8	1912.	1.09	5.7	48.	ND	NC	89.	NC	NC
9.30	392.	ND	7.6	1866.	1.07	4.5	37.	ND	NC	90.	NC	NC
9.45	384.	ND	7.7	1900.	1.07	4.4	37.	ND	NC	88.	NC	NC
9.60	386.	ND	7.7	1905.	1.10	5.8	49.	ND	NC	89.	NC	NC
9.75	388.	ND	8.0	1964.	1.08	4.9	42.	ND	NC	89.	NC	NC
9.90	386.	ND	8.1	1989.	1.06	3.9	34.	ND	NC	89.	NC	NC
10.05	400.	ND	8.3	2031.	1.07	4.0	36.	ND	NC	92.	NC	NC
10.20	406.	ND	7.9	1950.	1.07	4.3	37.	ND	NC	93.	NC	NC
10.35	399.	ND	7.7	1903.	1.08	4.7	40.	ND	NC	92.	NC	NC
10.50	393.	ND	7.4	1821.	1.08	5.0	41.	ND	NC	90.	NC	NC
10.65	404.	ND	7.5	1840.	1.07	4.0	32.	ND	NC	93.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	394.	ND	8.0	1956.	1.05	3.3	28.	ND	NC	91.	NC	NC
10.95	419.	ND	6.1	1498.	1.04	2.6	17.	ND	NC	96.	NC	NC
11.10	449.	ND	4.4	1073.	1.01	0.5	2.	ND	NC	103.	NC	NC
11.25	438.	ND	5.7	1413.	1.00	0.	0.	ND	NC	101.	NC	NC
11.40	414.	ND	6.7	1655.	1.01	0.3	2.	ND	NC	95.	NC	NC
11.55	417.	ND	7.6	1859.	1.00	0.	0.	ND	NC	96.	NC	NC
11.70	406.	ND	7.9	1932.	1.03	2.1	18.	ND	NC	93.	NC	NC
11.85	392.	ND	7.6	1872.	1.07	4.5	37.	ND	NC	90.	NC	NC
12.00	404.	ND	7.6	1876.	1.07	4.4	36.	ND	NC	93.	NC	NC
12.15	397.	ND	7.5	1849.	1.07	4.2	35.	ND	NC	91.	NC	NC
12.30	385.	ND	7.4	1820.	1.05	3.3	27.	ND	NC	89.	NC	NC
12.45	389.	ND	7.6	1872.	1.07	4.2	35.	ND	NC	90.	NC	NC
12.60	399.	ND	7.8	1913.	1.01	0.8	6.	ND	NC	92.	NC	NC
12.75	400.	ND	7.7	1882.	1.07	4.4	37.	ND	NC	92.	NC	NC
12.90	400.	ND	7.7	1903.	1.08	5.1	43.	ND	NC	92.	NC	NC
13.05	403.	ND	8.0	1965.	1.08	4.8	41.	ND	NC	93.	NC	NC
13.20	395.	ND	7.4	1827.	1.07	4.0	32.	ND	NC	91.	NC	NC
13.35	392.	ND	7.4	1810.	1.08	5.0	40.	ND	NC	90.	NC	NC
13.50	406.	ND	7.5	1856.	1.10	6.3	52.	ND	NC	93.	NC	NC
13.65	412.	ND	7.4	1808.	1.09	5.6	45.	ND	NC	95.	NC	NC
13.80	394.	ND	7.4	1808.	1.07	4.2	34.	ND	NC	91.	NC	NC
13.95	415.	ND	6.9	1690.	1.06	3.5	26.	ND	NC	96.	NC	NC
14.10	419.	ND	6.0	1468.	1.02	1.3	9.	ND	NC	96.	NC	NC
14.25	405.	ND	5.7	1392.	1.01	0.6	4.	ND	NC	93.	NC	NC
14.40	400.	ND	6.4	1581.	1.08	4.6	32.	ND	NC	92.	NC	NC
14.55	421.	ND	6.7	1641.	1.10	6.0	44.	ND	NC	97.	NC	NC
14.70	410.	ND	6.6	1632.	1.10	5.9	42.	ND	NC	94.	NC	NC
14.85	408.	ND	7.0	1719.	1.07	4.4	33.	ND	NC	94.	NC	NC
15.00	409.	ND	8.6	2117.	1.02	1.0	9.	ND	NC	94.	NC	NC
15.15	402.	ND	8.3	2047.	1.06	3.7	34.	ND	NC	92.	NC	NC
15.30	384.	ND	8.1	1988.	1.04	2.5	22.	ND	NC	88.	NC	NC
15.45	403.	ND	7.7	1884.	1.12	7.5	62.	ND	NC	93.	NC	NC
15.60	411.	ND	7.1	1754.	1.14	8.3	64.	ND	NC	95.	NC	NC
15.75	407.	ND	7.0	1723.	1.11	6.7	51.	ND	NC	94.	NC	NC
15.90	419.	ND	7.3	1801.	1.10	6.3	50.	ND	NC	96.	NC	NC
16.05	429.	ND	6.4	1577.	1.01	0.6	4.	ND	NC	99.	NC	NC
16.20	423.	ND	4.0	975.	1.01	0.5	2.	ND	NC	97.	NC	NC
16.35	427.	ND	4.3	1054.	1.01	0.5	2.	ND	NC	98.	NC	NC
16.50	434.	ND	4.3	1058.	1.01	0.5	2.	ND	NC	100.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	419.	ND	5.0	1238.	1.02	1.2	7.	ND	NC	96.	NC	NC
16.80	433.	ND	5.8	1436.	1.04	2.6	16.	ND	NC	100.	NC	NC
16.95	440.	ND	4.9	1208.	1.02	1.1	6.	ND	NC	101.	NC	NC
17.10	432.	ND	6.0	1485.	1.01	0.7	5.	ND	NC	99.	NC	NC
17.25	406.	ND	7.1	1739.	1.03	1.9	14.	ND	NC	93.	NC	NC
17.40	409.	ND	7.4	1820.	1.07	4.3	34.	ND	NC	94.	NC	NC
17.55	424.	ND	7.4	1808.	1.05	3.2	26.	ND	NC	97.	NC	NC
17.70	436.	ND	4.3	1065.	1.01	0.8	4.	ND	NC	100.	NC	NC
17.85	446.	ND	4.7	1146.	1.01	0.5	2.	ND	NC	103.	NC	NC
18.00	435.	ND	5.5	1347.	1.01	0.4	3.	ND	NC	100.	NC	NC
18.15	431.	ND	6.7	1653.	1.01	0.5	4.	ND	NC	99.	NC	NC
18.30	434.	ND	7.2	1762.	1.02	1.1	9.	ND	NC	100.	NC	NC
18.45	433.	ND	7.2	1778.	1.01	0.8	6.	ND	NC	100.	NC	NC
18.60	416.	ND	8.1	1989.	1.01	0.4	4.	ND	NC	96.	NC	NC
18.75	400.	ND	9.1	2242.	1.02	1.3	13.	ND	NC	92.	NC	NC
18.90	410.	ND	8.6	2116.	1.04	2.2	20.	ND	NC	94.	NC	NC
19.05	408.	ND	9.4	2318.	1.05	2.8	29.	ND	NC	94.	NC	NC
19.20	403.	ND	8.7	2130.	1.06	3.4	32.	ND	NC	93.	NC	NC
19.35	403.	ND	8.8	2176.	1.05	3.3	32.	ND	NC	93.	NC	NC
19.50	405.	ND	9.1	2249.	1.04	2.7	26.	ND	NC	93.	NC	NC
19.65	401.	ND	9.0	2215.	1.05	2.9	28.	ND	NC	92.	NC	NC
19.80	395.	ND	8.7	2144.	1.05	2.8	26.	ND	NC	91.	NC	NC
19.95	411.	ND	8.6	2125.	1.05	3.1	29.	ND	NC	94.	NC	NC
20.10	403.	ND	8.3	2049.	1.05	2.9	26.	ND	NC	93.	NC	NC
20.25	396.	ND	8.2	2026.	1.05	2.8	25.	ND	NC	91.	NC	NC
20.40	412.	ND	8.6	2122.	1.05	2.8	26.	ND	NC	95.	NC	NC
20.55	410.	ND	9.1	2227.	1.05	3.0	30.	ND	NC	94.	NC	NC
20.70	401.	ND	8.4	2066.	1.06	3.9	35.	ND	NC	92.	NC	NC
20.85	402.	ND	8.3	2052.	1.09	5.2	47.	ND	NC	92.	NC	NC
21.00	406.	ND	8.3	2047.	1.07	4.4	40.	ND	NC	93.	NC	NC
21.15	405.	ND	8.3	2034.	1.04	2.7	24.	ND	NC	93.	NC	NC
21.30	404.	ND	8.3	2045.	1.05	2.9	26.	ND	NC	93.	NC	NC
21.45	408.	ND	9.1	2239.	1.03	1.9	19.	ND	NC	94.	NC	NC
21.60	404.	ND	8.6	2126.	1.02	1.0	9.	ND	NC	93.	NC	NC
21.75	393.	ND	8.2	2006.	1.02	1.5	13.	ND	NC	90.	NC	NC
21.90	413.	ND	8.2	2019.	1.07	4.0	36.	ND	NC	95.	NC	NC
22.05	411.	ND	9.0	2210.	1.01	0.6	6.	ND	NC	95.	NC	NC
22.20	408.	ND	8.2	2018.	1.04	2.4	22.	ND	NC	94.	NC	NC
22.35	409.	ND	8.3	2032.	1.02	1.1	10.	ND	NC	94.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	415.	ND	9.2	2259.	1.01	0.8	8.	ND	NC	95.	NC	NC
22.65	402.	ND	8.6	2126.	1.01	0.8	8.	ND	NC	92.	NC	NC
22.80	405.	ND	8.7	2145.	1.03	1.9	18.	ND	NC	93.	NC	NC
22.95	417.	ND	9.5	2334.	1.03	1.8	19.	ND	NC	96.	NC	NC
23.10	407.	ND	9.0	2202.	1.01	0.8	8.	ND	NC	94.	NC	NC
23.25	396.	ND	9.4	2303.	1.01	0.7	8.	ND	NC	91.	NC	NC
23.40	399.	ND	8.8	2159.	1.04	2.5	24.	ND	NC	92.	NC	NC
23.55	410.	ND	9.1	2236.	1.01	0.6	6.	ND	NC	94.	NC	NC
23.70	404.	ND	8.9	2182.	1.03	2.1	20.	ND	NC	93.	NC	NC
23.85	398.	ND	8.9	2195.	1.06	3.6	35.	ND	NC	92.	NC	NC
24.00	407.	ND	8.7	2140.	1.05	2.8	27.	ND	NC	94.	NC	NC
24.15	406.	ND	9.2	2014.	1.04	2.4	21.	ND	NC	93.	NC	NC
24.30	400.	ND	8.4	2071.	1.05	2.8	25.	ND	NC	92.	NC	NC
24.45	409.	ND	8.8	2174.	1.06	3.6	35.	ND	NC	94.	NC	NC
24.60	416.	ND	8.6	2123.	1.05	3.3	31.	ND	NC	96.	NC	NC
24.75	401.	ND	8.2	2023.	1.05	3.3	29.	ND	NC	92.	NC	NC
24.90	405.	ND	8.2	2008.	1.06	3.5	31.	ND	NC	93.	NC	NC
25.05	415.	ND	8.1	1982.	1.04	2.6	22.	ND	NC	95.	NC	NC
25.20	410.	ND	7.8	1926.	1.05	3.1	26.	ND	NC	94.	NC	NC
25.35	413.	ND	8.5	2100.	1.00	0.	0.	ND	NC	95.	NC	NC
25.50	417.	ND	9.3	2293.	1.01	0.9	9.	ND	NC	96.	NC	NC
25.65	394.	ND	8.5	2100.	1.04	2.3	21.	ND	NC	91.	NC	NC
25.80	402.	ND	8.4	2069.	1.05	3.0	27.	ND	NC	92.	NC	NC
25.95	419.	ND	8.6	2124.	1.04	2.1	20.	ND	NC	96.	NC	NC
26.10	433.	ND	4.7	1154.	1.01	0.8	4.	ND	NC	100.	NC	NC
26.25	444.	ND	5.0	1232.	1.01	0.4	2.	ND	NC	102.	NC	NC
26.40	441.	ND	5.4	1331.	1.01	0.4	2.	ND	NC	101.	NC	NC
26.55	424.	ND	6.7	1646.	1.01	0.5	3.	ND	NC	97.	NC	NC
26.70	409.	ND	8.5	2087.	1.01	0.4	4.	ND	NC	94.	NC	NC
26.85	414.	ND	9.2	2258.	1.04	2.2	22.	ND	NC	95.	NC	NC
27.00	408.	ND	9.2	2268.	1.05	3.0	30.	ND	NC	94.	NC	NC
27.15	404.	ND	8.0	1960.	1.05	3.1	27.	ND	NC	93.	NC	NC
27.30	404.	ND	8.4	2064.	1.05	3.1	29.	ND	NC	93.	NC	NC
27.45	415.	ND	10.3	2525.	1.03	2.1	24.	ND	NC	95.	NC	NC
27.60	419.	ND	8.2	2009.	1.02	1.0	9.	ND	NC	96.	NC	NC
27.75	423.	ND	7.1	1754.	1.01	0.5	4.	ND	NC	97.	NC	NC
27.90	423.	ND	8.7	2127.	1.01	0.7	7.	ND	NC	97.	NC	NC
28.05	409.	ND	8.6	2124.	1.02	0.9	9.	ND	NC	94.	NC	NC
28.20	404.	ND	8.7	2139.	1.01	0.5	5.	ND	NC	93.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	432.	ND	6.2	1514.	1.01	0.4	3.	ND	NC	99.	NC	NC
28.50	430.	ND	4.7	1147.	1.01	0.5	2.	ND	NC	99.	NC	NC
28.65	418.	ND	6.5	1605.	1.01	0.4	3.	ND	NC	94.	NC	NC
28.80	409.	ND	7.9	1946.	1.01	0.4	3.	ND	NC	94.	NC	NC
28.95	411.	ND	9.1	2227.	1.00	0.	0.	ND	NC	95.	NC	NC
29.10	392.	ND	9.4	2313.	1.03	2.0	20.	ND	NC	90.	NC	NC
29.25	388.	ND	9.0	2210.	1.02	1.0	10.	ND	NC	89.	NC	NC
29.40	412.	ND	9.5	2333.	1.02	1.4	15.	ND	NC	95.	NC	NC
29.55	397.	ND	9.2	2271.	1.03	1.7	17.	ND	NC	91.	NC	NC
29.70	387.	ND	9.2	2266.	1.02	1.0	10.	ND	NC	89.	NC	NC
29.85	403.	ND	9.3	2290.	1.04	2.5	26.	ND	NC	93.	NC	NC
30.00	406.	ND	8.6	2107.	1.06	3.3	31.	ND	NC	93.	NC	NC
30.15	390.	ND	8.1	1997.	1.05	3.0	26.	ND	NC	90.	NC	NC
30.30	383.	ND	8.4	2066.	1.06	3.4	31.	ND	NC	88.	NC	NC
30.45	403.	ND	8.7	2133.	1.04	2.3	21.	ND	NC	93.	NC	NC
30.60	393.	ND	8.8	2168.	1.03	2.1	20.	ND	NC	91.	NC	NC
30.75	394.	ND	8.6	2121.	1.05	2.8	26.	ND	NC	91.	NC	NC
30.90	410.	ND	8.4	2070.	1.07	4.3	39.	ND	NC	94.	NC	NC
31.05	402.	ND	7.7	1883.	1.07	4.3	35.	ND	NC	93.	NC	NC
31.20	386.	ND	8.1	1989.	1.05	2.9	25.	ND	NC	89.	NC	NC
31.35	392.	ND	9.0	2220.	1.04	2.3	23.	ND	NC	90.	NC	NC
31.50	413.	ND	6.8	1668.	1.02	1.0	7.	ND	NC	95.	NC	NC
31.65	400.	ND	8.3	2033.	1.00	0.	0.	ND	NC	92.	NC	NC
31.80	393.	ND	7.9	1946.	1.02	1.4	12.	ND	NC	90.	NC	NC
31.95	406.	ND	9.1	2227.	1.02	1.4	14.	ND	NC	93.	NC	NC
32.10	423.	ND	7.2	1775.	1.02	1.2	9.	ND	NC	97.	NC	NC
32.25	447.	ND	5.2	1272.	1.02	0.9	5.	ND	NC	103.	NC	NC
32.40	427.	ND	4.7	1144.	1.00	0.	0.	ND	NC	98.	NC	NC
32.55	423.	ND	6.0	1478.	1.00	0.	0.	ND	NC	97.	NC	NC
32.70	413.	ND	7.9	1951.	1.01	0.5	4.	ND	NC	95.	NC	NC
32.85	402.	ND	10.0	2465.	1.02	1.1	12.	ND	NC	93.	NC	NC
33.00	403.	ND	8.6	2106.	1.03	1.6	15.	ND	NC	93.	NC	NC
33.15	399.	ND	9.0	2204.	1.02	1.0	10.	ND	NC	92.	NC	NC
33.30	389.	ND	9.2	2252.	1.03	1.7	17.	ND	NC	90.	NC	NC
33.45	399.	ND	9.1	2231.	1.02	1.0	10.	ND	NC	92.	NC	NC
33.60	404.	ND	9.0	2205.	1.03	1.7	17.	ND	NC	93.	NC	NC
33.75	405.	ND	8.7	2140.	1.05	3.1	29.	ND	NC	93.	NC	NC
33.90	408.	ND	8.8	2158.	1.07	4.0	38.	ND	NC	94.	NC	NC
34.05	403.	ND	8.5	2089.	1.05	2.9	27.	ND	NC	93.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	408.	ND	8.6	2120.	1.03	2.1	19.	ND	NC	94.	NC	NC
34.35	410.	ND	9.1	2243.	1.03	1.9	19.	ND	NC	94.	NC	NC
34.50	411.	ND	8.7	2140.	1.04	2.5	23.	ND	NC	95.	NC	NC
34.65	411.	ND	8.5	2099.	1.05	3.3	30.	ND	NC	95.	NC	NC
34.80	407.	ND	8.5	2089.	1.06	3.8	35.	ND	NC	94.	NC	NC
34.95	395.	ND	8.4	2067.	1.04	2.6	24.	ND	NC	91.	NC	NC
35.10	406.	ND	8.6	2120.	1.03	2.0	19.	ND	NC	92.	NC	NC
35.25	414.	ND	9.0	2209.	1.02	1.5	15.	ND	NC	95.	NC	NC
35.40	412.	ND	9.0	2218.	1.02	1.2	12.	ND	NC	95.	NC	NC
35.55	377.	ND	8.2	2011.	1.05	3.0	27.	ND	NC	87.	NC	NC
35.70	411.	ND	8.2	2007.	1.05	3.1	28.	ND	NC	95.	NC	NC
35.85	412.	ND	10.0	2460.	1.02	1.5	16.	ND	NC	95.	NC	NC
36.00	409.	ND	8.1	2001.	1.01	0.6	5.	ND	NC	94.	NC	NC
36.15	431.	ND	6.6	1624.	1.01	0.6	4.	ND	NC	99.	NC	NC
36.30	430.	ND	7.7	1886.	1.01	0.3	3.	ND	NC	99.	NC	NC
36.45	417.	ND	8.4	2069.	1.01	0.3	3.	ND	NC	96.	NC	NC
36.60	425.	ND	8.8	2165.	1.01	0.5	4.	ND	NC	98.	NC	NC
36.75	406.	ND	6.7	1637.	1.02	0.9	7.	ND	NC	93.	NC	NC
36.90	427.	ND	4.5	1097.	1.01	0.4	2.	ND	NC	98.	NC	NC
37.05	435.	ND	6.4	1571.	1.01	0.4	3.	ND	NC	100.	NC	NC
37.20	424.	ND	7.7	1890.	1.01	0.4	3.	ND	NC	97.	NC	NC
37.35	415.	ND	9.1	2247.	1.02	1.1	10.	ND	NC	95.	NC	NC
37.50	410.	ND	9.1	2235.	1.03	1.9	19.	ND	NC	94.	NC	NC
37.65	411.	ND	9.3	2294.	1.02	0.9	9.	ND	NC	95.	NC	NC
37.80	414.	ND	9.8	2403.	1.02	1.0	10.	ND	NC	95.	NC	NC
37.95	405.	ND	9.3	2279.	1.03	1.7	17.	ND	NC	93.	NC	NC
38.10	400.	ND	9.2	2262.	1.02	1.1	11.	ND	NC	92.	NC	NC
38.25	411.	ND	9.3	2280.	1.03	2.0	20.	ND	NC	94.	NC	NC
38.40	416.	ND	8.9	2188.	1.05	2.9	28.	ND	NC	96.	NC	NC
38.55	411.	ND	8.7	2134.	1.04	2.5	24.	ND	NC	95.	NC	NC
38.70	419.	ND	9.0	2209.	1.04	2.4	23.	ND	NC	96.	NC	NC
38.85	418.	ND	9.2	2258.	1.04	2.1	21.	ND	NC	96.	NC	NC
39.00	408.	ND	9.0	2218.	1.03	1.9	19.	ND	NC	94.	NC	NC
39.15	402.	ND	8.8	2162.	1.04	2.3	22.	ND	NC	92.	NC	NC
39.30	415.	ND	8.9	2190.	1.05	2.8	27.	ND	NC	95.	NC	NC
39.45	421.	ND	9.1	2246.	1.04	2.7	27.	ND	NC	97.	NC	NC
39.60	391.	ND	9.2	2256.	1.03	2.0	20.	ND	NC	90.	NC	NC
39.75	405.	ND	9.5	2346.	1.03	1.7	18.	ND	NC	93.	NC	NC
39.90	408.	ND	9.2	2253.	1.04	2.2	22.	ND	NC	94.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	394.	ND	8.8	2168.	1.03	1.7	16.	ND	NC	91.	NC	NC
40.20	398.	ND	9.2	2257.	1.04	2.4	24.	ND	NC	91.	NC	NC
40.35	411.	ND	9.5	2333.	1.04	2.2	22.	ND	NC	95.	NC	NC
40.50	406.	ND	9.3	2298.	1.03	1.9	20.	ND	NC	93.	NC	NC
40.65	404.	ND	9.3	2278.	1.03	1.7	17.	ND	NC	93.	NC	NC
40.80	406.	ND	9.2	2265.	1.04	2.7	27.	ND	NC	93.	NC	NC
40.95	406.	ND	8.8	2166.	1.04	2.2	21.	ND	NC	93.	NC	NC
41.10	406.	ND	9.0	2214.	1.02	1.5	14.	ND	NC	93.	NC	NC
41.25	410.	ND	9.2	2274.	1.04	2.2	22.	ND	NC	94.	NC	NC
41.40	411.	ND	9.1	2246.	1.04	2.5	25.	ND	NC	95.	NC	NC
41.55	401.	ND	8.8	2162.	1.04	2.5	24.	ND	NC	92.	NC	NC
41.70	406.	ND	9.3	2282.	1.04	2.3	23.	ND	NC	93.	NC	NC
41.85	408.	ND	9.5	2342.	1.03	2.1	21.	ND	NC	94.	NC	NC
42.00	390.	ND	9.2	2258.	1.03	1.7	17.	ND	NC	90.	NC	NC
42.15	411.	ND	9.2	2261.	1.03	1.9	19.	ND	NC	94.	NC	NC
42.30	407.	ND	9.2	2261.	1.04	2.3	23.	ND	NC	94.	NC	NC
42.45	402.	ND	8.9	2182.	1.04	2.4	23.	ND	NC	93.	NC	NC
42.60	402.	ND	9.1	2245.	1.04	2.4	24.	ND	NC	93.	NC	NC
42.75	409.	ND	9.4	2322.	1.04	2.2	23.	ND	NC	94.	NC	NC
42.90	398.	ND	9.2	2272.	1.03	1.9	19.	ND	NC	92.	NC	NC
43.05	398.	ND	8.9	2191.	1.04	2.2	21.	ND	NC	92.	NC	NC
43.20	411.	ND	9.0	2202.	1.04	2.4	24.	ND	NC	95.	NC	NC
43.35	411.	ND	9.2	2252.	1.04	2.3	23.	ND	NC	94.	NC	NC
43.50	402.	ND	9.1	2229.	1.03	2.0	19.	ND	NC	92.	NC	NC
43.65	407.	ND	9.4	2306.	1.03	1.9	20.	ND	NC	94.	NC	NC
43.80	409.	ND	9.2	2266.	1.03	1.9	19.	ND	NC	94.	NC	NC
43.95	401.	ND	8.9	2180.	1.03	2.0	19.	ND	NC	92.	NC	NC
44.10	402.	ND	9.1	2228.	1.04	2.2	21.	ND	NC	92.	NC	NC
44.25	407.	ND	9.5	2335.	1.02	1.5	15.	ND	NC	94.	NC	NC
44.40	404.	ND	9.3	2291.	1.02	1.3	13.	ND	NC	93.	NC	NC
44.55	401.	ND	9.0	2219.	1.03	2.0	19.	ND	NC	92.	NC	NC
44.70	413.	ND	9.3	2285.	1.04	2.5	25.	ND	NC	95.	NC	NC
44.85	413.	ND	9.6	2353.	1.04	2.2	23.	ND	NC	95.	NC	NC
45.00	407.	ND	9.1	2229.	1.03	1.7	17.	ND	NC	94.	NC	NC
45.15	423.	ND	9.6	2369.	1.03	1.7	18.	ND	NC	97.	NC	NC
45.30	416.	ND	9.8	2409.	1.04	2.1	23.	ND	NC	96.	NC	NC
45.45	395.	ND	9.3	2275.	1.04	2.2	22.	ND	NC	91.	NC	NC
45.60	399.	ND	9.6	2372.	1.04	2.3	24.	ND	NC	92.	NC	NC
45.75	405.	ND	9.9	2440.	1.03	1.7	18.	ND	NC	93.	NC	NC

RUN NUMBER- 15
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	408.	ND	9.8	2402.	1.02	1.5	16.	ND	NC	94.	NC	NC
46.05	403.	ND	9.2	2273.	1.03	2.0	20.	ND	NC	93.	NC	NC
46.20	402.	ND	9.6	2356.	1.04	2.3	24.	ND	NC	93.	NC	NC
46.35	398.	ND	9.6	2360.	1.03	1.7	18.	ND	NC	92.	NC	NC
46.50	388.	ND	9.4	2309.	1.03	1.6	17.	ND	NC	89.	NC	NC
46.65	399.	ND	9.0	2222.	1.04	2.4	24.	ND	NC	92.	NC	NC
46.80	406.	ND	8.8	2172.	1.09	5.4	52.	ND	NC	93.	NC	NC
46.95	403.	ND	8.8	2162.	1.06	3.6	34.	ND	NC	93.	NC	NC
47.10	403.	ND	9.2	2252.	1.05	3.2	32.	ND	NC	93.	NC	NC
47.25	409.	ND	9.5	2341.	1.04	2.7	28.	ND	NC	94.	NC	NC
47.40	413.	ND	9.0	2221.	1.04	2.3	22.	ND	NC	95.	NC	NC
47.55	404.	ND	9.1	2230.	1.05	3.2	31.	ND	NC	93.	NC	NC
47.70	411.	ND	9.2	2260.	1.08	4.9	48.	ND	NC	94.	NC	NC
47.85	410.	ND	8.9	2200.	1.06	3.7	36.	ND	NC	94.	NC	NC
48.00	407.	ND	8.8	2168.	1.03	2.1	20.	ND	NC	94.	NC	NC
48.15	410.	ND	9.1	2250.	1.05	2.9	29.	ND	NC	94.	NC	NC
48.30	417.	ND	8.9	2193.	1.11	6.6	64.	ND	NC	96.	NC	NC
48.45	404.	ND	8.9	2196.	1.02	1.3	13.	ND	NC	93.	NC	NC
48.60	404.	ND	8.2	2014.	1.09	5.5	49.	ND	NC	93.	NC	NC
48.75	426.	ND	7.8	1922.	1.11	6.4	55.	ND	NC	98.	NC	NC
48.90	408.	ND	11.9	2927.	1.02	1.0	13.	ND	NC	94.	NC	NC
49.05	437.	ND	5.9	1439.	1.01	0.4	3.	ND	NC	101.	NC	NC
49.20	443.	ND	4.7	1152.	1.01	0.5	2.	ND	NC	102.	NC	NC
49.35	432.	ND	4.9	1206.	1.01	0.4	2.	ND	NC	99.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 5 78
RUN NUMBER- 16
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.60
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	558.	ND	10.5	2572.	1.07	4.3	239.	ND	NC	128.	NC	NC
0.15	558.	ND	10.3	2530.	1.07	4.1	227.	ND	NC	128.	NC	NC
0.30	575.	ND	10.2	2502.	1.07	4.1	225.	ND	NC	132.	NC	NC
0.45	579.	ND	10.3	2542.	1.07	4.2	232.	ND	NC	133.	NC	NC
0.60	562.	ND	10.4	2547.	1.07	4.1	230.	ND	NC	129.	NC	NC
0.75	561.	ND	10.1	2485.	1.07	4.2	227.	ND	NC	129.	NC	NC
0.90	575.	ND	9.9	2443.	1.07	4.3	231.	ND	NC	132.	NC	NC
1.05	565.	ND	10.4	2566.	1.07	4.3	244.	ND	NC	133.	NC	NC
1.20	570.	ND	10.2	2512.	1.07	4.1	226.	ND	NC	131.	NC	NC
1.35	574.	ND	10.2	2512.	1.07	4.0	222.	ND	NC	132.	NC	NC
1.50	566.	ND	10.0	2465.	1.07	4.1	220.	ND	NC	130.	NC	NC
1.65	558.	ND	10.1	2494.	1.07	4.2	228.	ND	NC	128.	NC	NC
1.80	571.	ND	10.0	2470.	1.07	4.1	223.	ND	NC	131.	NC	NC
1.95	575.	ND	10.2	2511.	1.07	4.1	223.	ND	NC	132.	NC	NC
2.10	563.	ND	10.4	2551.	1.07	4.1	229.	ND	NC	129.	NC	NC
2.25	565.	ND	10.5	2572.	1.07	4.1	232.	ND	NC	130.	NC	NC
2.40	570.	ND	10.0	2467.	1.07	4.1	222.	ND	NC	131.	NC	NC
2.55	556.	ND	10.3	2540.	1.07	4.1	225.	ND	NC	128.	NC	NC
2.70	558.	ND	10.4	2550.	1.06	3.8	212.	ND	NC	128.	NC	NC
2.85	570.	ND	10.4	2558.	1.06	3.7	209.	ND	NC	131.	NC	NC
3.00	567.	ND	10.4	2551.	1.06	3.7	208.	ND	NC	131.	NC	NC
3.15	564.	ND	10.2	2516.	1.06	3.8	210.	ND	NC	130.	NC	NC
3.30	568.	ND	10.0	2457.	1.06	3.6	194.	ND	NC	131.	NC	NC
3.45	567.	ND	10.1	2477.	1.06	3.7	203.	ND	NC	130.	NC	NC
3.60	564.	ND	10.5	2572.	1.06	3.8	213.	ND	NC	130.	NC	NC
3.75	573.	ND	10.5	2574.	1.06	3.8	212.	ND	NC	132.	NC	NC
3.90	577.	ND	10.1	2490.	1.06	3.8	208.	ND	NC	133.	NC	NC
4.05	560.	ND	10.1	2490.	1.07	3.9	219.	ND	NC	129.	NC	NC
4.20	559.	ND	10.1	2473.	1.07	3.9	209.	ND	NC	129.	NC	NC
4.35	573.	ND	10.2	2510.	1.07	3.8	219.	ND	NC	132.	NC	NC
4.50	568.	ND	10.2	2510.	1.07	4.0	217.	ND	NC	131.	NC	NC
4.65	556.	ND	10.2	2507.	1.07	3.9	214.	ND	NC	128.	NC	NC
4.80	569.	ND	10.2	2505.	1.07	3.9	214.	ND	NC	131.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	575.	ND	9.8	2482.	1.07	4.0	209.	ND	NC	132.	NC	NC
5.10	567.	ND	10.1	2479.	1.07	4.1	222.	ND	NC	139.	NC	NC
5.25	563.	ND	10.0	2453.	1.07	4.2	225.	ND	NC	130.	NC	NC
5.40	574.	ND	9.8	2418.	1.07	4.1	217.	ND	NC	132.	NC	NC
5.55	571.	ND	9.9	2427.	1.07	4.1	215.	ND	NC	131.	NC	NC
5.70	562.	ND	10.1	2479.	1.07	4.1	220.	ND	NC	129.	NC	NC
5.85	563.	ND	10.3	2522.	1.07	4.1	224.	ND	NC	130.	NC	NC
6.00	578.	ND	10.1	2490.	1.07	4.0	218.	ND	NC	133.	NC	NC
6.15	553.	ND	10.0	2453.	1.07	4.0	214.	ND	NC	127.	NC	NC
6.30	555.	ND	10.1	2481.	1.07	3.9	212.	ND	NC	128.	NC	NC
6.45	590.	ND	9.9	2424.	1.07	3.9	205.	ND	NC	136.	NC	NC
6.60	560.	ND	10.2	2506.	1.07	3.9	213.	ND	NC	129.	NC	NC
6.75	560.	ND	10.2	2510.	1.07	3.8	210.	ND	NC	129.	NC	NC
6.90	587.	ND	9.8	2416.	1.06	3.8	201.	ND	NC	135.	NC	NC
7.05	572.	ND	10.1	2475.	1.06	3.7	200.	ND	NC	132.	NC	NC
7.20	566.	ND	10.4	2548.	1.06	3.6	200.	ND	NC	130.	NC	NC
7.35	571.	ND	10.2	2504.	1.06	3.4	185.	ND	NC	131.	NC	NC
7.50	567.	ND	10.1	2473.	1.06	3.5	187.	ND	NC	130.	NC	NC
7.65	560.	ND	10.0	2462.	1.06	3.6	192.	ND	NC	129.	NC	NC
7.80	564.	ND	10.3	2524.	1.06	3.6	199.	ND	NC	130.	NC	NC
7.95	572.	ND	9.9	2446.	1.06	3.5	189.	ND	NC	131.	NC	NC
8.10	563.	ND	10.3	2528.	1.06	3.6	197.	ND	NC	130.	NC	NC
8.25	563.	ND	10.4	2562.	1.06	3.7	205.	ND	NC	130.	NC	NC
8.40	570.	ND	10.1	2479.	1.06	3.6	196.	ND	NC	131.	NC	NC
8.55	558.	ND	10.1	2484.	1.06	3.7	199.	ND	NC	128.	NC	NC
8.70	556.	ND	10.3	2521.	1.06	3.6	201.	ND	NC	128.	NC	NC
8.85	568.	ND	10.2	2502.	1.06	3.7	203.	ND	NC	131.	NC	NC
9.00	575.	ND	9.9	2446.	1.07	3.9	206.	ND	NC	132.	NC	NC
9.15	554.	ND	9.7	2379.	1.07	4.1	215.	ND	NC	128.	NC	NC
9.30	564.	ND	9.8	2418.	1.08	4.6	241.	ND	NC	130.	NC	NC
9.45	569.	ND	9.5	2335.	1.08	4.9	248.	ND	NC	131.	NC	NC
9.60	563.	ND	9.7	2380.	1.09	5.4	279.	ND	NC	129.	NC	NC
9.75	564.	ND	9.6	2361.	1.09	5.5	283.	ND	NC	130.	NC	NC
9.90	577.	ND	9.4	2304.	1.09	5.4	273.	ND	NC	133.	NC	NC
10.05	560.	ND	9.5	2341.	1.09	5.4	276.	ND	NC	129.	NC	NC
10.20	561.	ND	9.6	2368.	1.09	5.3	273.	ND	NC	129.	NC	NC
10.35	567.	ND	9.7	2382.	1.09	5.2	268.	ND	NC	131.	NC	NC
10.50	568.	ND	9.5	2334.	1.09	5.1	258.	ND	NC	131.	NC	NC
10.65	560.	ND	9.3	2281.	1.08	5.0	247.	ND	NC	129.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	558.	ND	9.7	2386.	1.08	4.7	246.	ND	NC	128.	NC	NC
10.95	566.	ND	9.5	2348.	1.08	4.5	229.	ND	NC	130.	NC	NC
11.10	568.	ND	9.7	2387.	1.07	4.3	225.	ND	NC	131.	NC	NC
11.25	561.	ND	10.0	2447.	1.08	4.7	252.	ND	NC	129.	NC	NC
11.40	574.	ND	9.6	2367.	1.08	4.5	235.	ND	NC	132.	NC	NC
11.55	566.	ND	9.6	2351.	1.08	4.5	231.	ND	NC	130.	NC	NC
11.70	561.	ND	9.9	2432.	1.07	4.4	232.	ND	NC	129.	NC	NC
11.85	571.	ND	10.1	2495.	1.07	4.1	224.	ND	NC	131.	NC	NC
12.00	575.	ND	9.8	2415.	1.07	4.0	214.	ND	NC	132.	NC	NC
12.15	561.	ND	9.7	2386.	1.07	4.2	221.	ND	NC	129.	NC	NC
12.30	565.	ND	9.8	2415.	1.08	4.4	233.	ND	NC	130.	NC	NC
12.45	573.	ND	9.6	2355.	1.08	4.6	238.	ND	NC	132.	NC	NC
12.60	569.	ND	9.3	2296.	1.08	5.0	250.	ND	NC	131.	NC	NC
12.75	563.	ND	9.6	2355.	1.09	5.2	270.	ND	NC	129.	NC	NC
12.90	574.	ND	9.4	2303.	1.09	5.1	256.	ND	NC	132.	NC	NC
13.05	571.	ND	9.1	2232.	1.09	5.1	249.	ND	NC	131.	NC	NC
13.20	567.	ND	9.6	2354.	1.09	5.2	267.	ND	NC	130.	NC	NC
13.35	573.	ND	9.7	2392.	1.09	5.1	266.	ND	NC	132.	NC	NC
13.50	571.	ND	9.4	2311.	1.08	4.9	247.	ND	NC	131.	NC	NC
13.65	564.	ND	9.4	2321.	1.08	5.0	252.	ND	NC	130.	NC	NC
13.80	570.	ND	9.8	2402.	1.09	5.2	274.	ND	NC	131.	NC	NC
13.95	576.	ND	9.8	2412.	1.08	5.0	262.	ND	NC	132.	NC	NC
14.10	568.	ND	9.7	2379.	1.08	4.5	234.	ND	NC	131.	NC	NC
14.25	560.	ND	9.9	2425.	1.07	4.3	228.	ND	NC	129.	NC	NC
14.40	571.	ND	9.8	2402.	1.07	4.3	227.	ND	NC	131.	NC	NC
14.55	566.	ND	9.5	2327.	1.07	4.4	224.	ND	NC	130.	NC	NC
14.70	559.	ND	9.6	2362.	1.08	4.6	236.	ND	NC	129.	NC	NC
14.85	561.	ND	9.8	2412.	1.08	4.8	253.	ND	NC	129.	NC	NC
15.00	577.	ND	9.4	2322.	1.08	4.7	240.	ND	NC	133.	NC	NC
15.15	553.	ND	9.3	2292.	1.08	4.8	239.	ND	NC	127.	NC	NC
15.30	571.	ND	9.6	2359.	1.08	4.8	248.	ND	NC	131.	NC	NC
15.45	571.	ND	9.7	2384.	1.08	4.9	255.	ND	NC	131.	NC	NC
15.60	568.	ND	9.3	2291.	1.08	4.8	240.	ND	NC	131.	NC	NC
15.75	562.	ND	9.6	2363.	1.08	5.0	257.	ND	NC	129.	NC	NC
15.90	568.	ND	9.9	2422.	1.09	5.1	268.	ND	NC	131.	NC	NC
16.05	573.	ND	9.3	2284.	1.08	4.8	240.	ND	NC	132.	NC	NC
16.20	568.	ND	9.4	2316.	1.08	4.7	240.	ND	NC	131.	NC	NC
16.35	571.	ND	9.6	2369.	1.08	4.7	244.	ND	NC	131.	NC	NC
16.50	586.	ND	9.5	2334.	1.07	4.4	224.	ND	NC	135.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	572.	ND	9.6	2361.	1.08	4.6	235.	ND	NC	132.	NC	NC
16.80	567.	ND	9.8	2405.	1.08	4.5	236.	ND	NC	130.	NC	NC
16.95	570.	ND	9.7	2386.	1.08	4.4	231.	ND	NC	131.	NC	NC
17.10	569.	ND	9.6	2350.	1.07	4.4	225.	ND	NC	131.	NC	NC
17.25	559.	ND	9.8	2412.	1.07	4.4	232.	ND	NC	129.	NC	NC
17.40	561.	ND	9.7	2393.	1.07	4.4	230.	ND	NC	129.	NC	NC
17.55	566.	ND	9.1	2247.	1.07	4.3	211.	ND	NC	130.	NC	NC
17.70	567.	ND	9.7	2391.	1.07	4.4	228.	ND	NC	130.	NC	NC
17.85	564.	ND	9.8	2399.	1.08	4.5	236.	ND	NC	130.	NC	NC
18.00	574.	ND	9.7	2393.	1.08	4.4	231.	ND	NC	132.	NC	NC
18.15	572.	ND	9.7	2382.	1.07	4.0	210.	ND	NC	131.	NC	NC
18.30	554.	ND	9.7	2392.	1.07	4.1	212.	ND	NC	127.	NC	NC
18.45	573.	ND	9.7	2385.	1.07	4.1	215.	ND	NC	132.	NC	NC
18.60	581.	ND	9.6	2356.	1.07	4.1	211.	ND	NC	134.	NC	NC
18.75	575.	ND	9.7	2389.	1.07	3.9	205.	ND	NC	132.	NC	NC
18.90	563.	ND	9.9	2438.	1.07	4.0	216.	ND	NC	129.	NC	NC
19.05	575.	ND	9.4	2319.	1.07	3.9	200.	ND	NC	132.	NC	NC
19.20	566.	ND	9.5	2336.	1.07	4.0	207.	ND	NC	130.	NC	NC
19.35	566.	ND	9.7	2395.	1.07	4.0	209.	ND	NC	130.	NC	NC
19.50	573.	ND	9.5	2343.	1.07	3.9	201.	ND	NC	132.	NC	NC
19.65	571.	ND	9.6	2349.	1.06	3.7	191.	ND	NC	131.	NC	NC
19.80	562.	ND	9.8	2403.	1.06	3.8	197.	ND	NC	129.	NC	NC
19.95	567.	ND	9.8	2407.	1.07	4.3	224.	ND	NC	133.	NC	NC
20.10	574.	ND	9.1	2236.	1.07	4.4	213.	ND	NC	132.	NC	NC
20.25	570.	ND	9.4	2310.	1.07	4.2	210.	ND	NC	131.	NC	NC
20.40	563.	ND	9.6	2371.	1.07	4.3	223.	ND	NC	130.	NC	NC
20.55	576.	ND	9.4	2301.	1.07	4.4	220.	ND	NC	132.	NC	NC
20.70	578.	ND	9.5	2329.	1.08	4.4	225.	ND	NC	133.	NC	NC
20.85	573.	ND	9.5	2340.	1.08	4.5	228.	ND	NC	132.	NC	NC
21.00	582.	ND	9.4	2321.	1.08	4.5	226.	ND	NC	134.	NC	NC
21.15	577.	ND	9.4	2323.	1.08	4.5	227.	ND	NC	133.	NC	NC
21.30	572.	ND	9.7	2388.	1.08	4.5	236.	ND	NC	131.	NC	NC
21.45	579.	ND	9.8	2408.	1.07	4.3	226.	ND	NC	133.	NC	NC
21.60	584.	ND	9.4	2308.	1.07	4.0	203.	ND	NC	134.	NC	NC
21.75	575.	ND	9.6	2366.	1.07	4.0	206.	ND	NC	132.	NC	NC
21.90	566.	ND	9.7	2393.	1.07	4.2	222.	ND	NC	130.	NC	NC
22.05	566.	ND	9.5	2330.	1.07	4.3	218.	ND	NC	130.	NC	NC
22.20	573.	ND	9.4	2300.	1.07	4.1	208.	ND	NC	132.	NC	NC
22.35	564.	ND	9.5	2328.	1.07	4.0	203.	ND	NC	130.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	566.	ND	9.5	2337.	1.07	4.0	204.	ND	NC	130.	NC	NC
22.65	575.	ND	9.4	2300.	1.07	4.1	206.	ND	NC	132.	NC	NC
22.80	577.	ND	9.5	2330.	1.07	4.2	212.	ND	NC	133.	NC	NC
22.95	567.	ND	9.8	2399.	1.07	4.1	214.	ND	NC	130.	NC	NC
23.10	582.	ND	9.5	2344.	1.07	4.0	203.	ND	NC	134.	NC	NC
23.25	580.	ND	9.5	2333.	1.07	4.1	208.	ND	NC	133.	NC	NC
23.40	568.	ND	9.7	2383.	1.07	4.1	216.	ND	NC	131.	NC	NC
23.55	567.	ND	9.6	2370.	1.07	3.9	200.	ND	NC	130.	NC	NC
23.70	578.	ND	9.6	2369.	1.06	3.7	193.	ND	NC	133.	NC	NC
23.85	583.	ND	9.9	2425.	1.06	3.8	201.	ND	NC	134.	NC	NC
24.00	580.	ND	9.8	2415.	1.07	4.1	214.	ND	NC	133.	NC	NC
24.15	588.	ND	9.5	2338.	1.07	3.9	201.	ND	NC	135.	NC	NC
24.30	576.	ND	9.6	2366.	1.07	3.9	201.	ND	NC	133.	NC	NC
24.45	568.	ND	9.8	2413.	1.07	4.0	208.	ND	NC	131.	NC	NC
24.60	579.	ND	9.7	2381.	1.07	3.9	205.	ND	NC	133.	NC	NC
24.75	570.	ND	9.8	2408.	1.06	3.7	192.	ND	NC	131.	NC	NC
24.90	567.	ND	9.8	2422.	1.06	3.8	199.	ND	NC	131.	NC	NC
25.05	575.	ND	9.6	2371.	1.06	3.6	188.	ND	NC	132.	NC	NC
25.20	579.	ND	9.5	2348.	1.06	3.7	192.	ND	NC	133.	NC	NC
25.35	578.	ND	9.8	2399.	1.07	3.9	202.	ND	NC	133.	NC	NC
25.50	577.	ND	9.8	2409.	1.07	3.8	202.	ND	NC	133.	NC	NC
25.65	569.	ND	9.4	2312.	1.06	3.6	183.	ND	NC	131.	NC	NC
25.80	578.	ND	9.5	2343.	1.06	3.6	185.	ND	NC	133.	NC	NC
25.95	577.	ND	9.8	2416.	1.07	3.8	202.	ND	NC	133.	NC	NC
26.10	573.	ND	9.4	2319.	1.07	4.1	205.	ND	NC	132.	NC	NC
26.25	580.	ND	9.2	2270.	1.07	4.4	216.	ND	NC	134.	NC	NC
26.40	579.	ND	9.3	2299.	1.08	4.5	225.	ND	NC	133.	NC	NC
26.55	574.	ND	9.3	2291.	1.08	4.5	227.	ND	NC	132.	NC	NC
26.70	564.	ND	9.1	2239.	1.08	4.6	227.	ND	NC	130.	NC	NC
26.85	585.	ND	9.2	2264.	1.09	5.0	249.	ND	NC	135.	NC	NC
27.00	570.	ND	9.3	2279.	1.09	5.4	270.	ND	NC	131.	NC	NC
27.15	572.	ND	9.0	2206.	1.09	5.4	259.	ND	NC	131.	NC	NC
27.30	580.	ND	9.1	2234.	1.09	5.3	257.	ND	NC	133.	NC	NC
27.45	588.	ND	9.4	2304.	1.09	5.3	269.	ND	NC	135.	NC	NC
27.60	576.	ND	9.2	2267.	1.09	5.1	252.	ND	NC	132.	NC	NC
27.75	576.	ND	9.2	2250.	1.08	4.9	241.	ND	NC	133.	NC	NC
27.90	578.	ND	9.3	2299.	1.08	4.8	243.	ND	NC	133.	NC	NC
28.05	567.	ND	9.5	2339.	1.08	4.8	247.	ND	NC	130.	NC	NC
28.20	575.	ND	9.2	2272.	1.08	4.9	241.	ND	NC	132.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	589.	ND	9.3	2293.	1.08	4.7	236.	ND	NC	135.	NC	NC
28.50	575.	ND	9.4	2308.	1.08	4.7	235.	ND	NC	132.	NC	NC
28.65	572.	ND	9.3	2277.	1.08	4.6	231.	ND	NC	132.	NC	NC
28.80	588.	ND	9.3	2288.	1.08	4.6	228.	ND	NC	135.	NC	NC
28.95	575.	ND	9.5	2332.	1.08	4.4	226.	ND	NC	132.	NC	NC
29.10	559.	ND	9.4	2303.	1.07	4.3	216.	ND	NC	129.	NC	NC
29.25	590.	ND	9.3	2289.	1.07	4.3	214.	ND	NC	136.	NC	NC
29.40	577.	ND	9.5	2341.	1.08	4.5	230.	ND	NC	133.	NC	NC
29.55	568.	ND	9.4	2310.	1.07	4.3	219.	ND	NC	131.	NC	NC
29.70	568.	ND	9.3	2293.	1.07	4.1	206.	ND	NC	131.	NC	NC
29.85	585.	ND	9.5	2345.	1.07	4.1	210.	ND	NC	135.	NC	NC
30.00	570.	ND	9.6	2372.	1.07	4.2	218.	ND	NC	131.	NC	NC
30.15	580.	ND	9.2	2275.	1.07	4.3	215.	ND	NC	133.	NC	NC
30.30	600.	ND	9.1	2249.	1.07	4.2	207.	ND	NC	138.	NC	NC
30.45	577.	ND	9.3	2276.	1.08	4.4	221.	ND	NC	133.	NC	NC
30.60	569.	ND	9.3	2279.	1.08	4.6	228.	ND	NC	131.	NC	NC
30.75	573.	ND	9.1	2230.	1.08	4.7	231.	ND	NC	132.	NC	NC
30.90	598.	ND	9.2	2265.	1.08	4.8	238.	ND	NC	137.	NC	NC
31.05	566.	ND	9.2	2268.	1.08	4.7	233.	ND	NC	130.	NC	NC
31.20	565.	ND	9.0	2220.	1.08	4.7	230.	ND	NC	130.	NC	NC
31.35	586.	ND	9.3	2282.	1.08	4.7	234.	ND	NC	135.	NC	NC
31.50	590.	ND	9.3	2291.	1.09	5.1	254.	ND	NC	136.	NC	NC
31.65	575.	ND	9.2	2259.	1.08	4.8	237.	ND	NC	132.	NC	NC
31.80	590.	ND	9.4	2317.	1.08	4.4	223.	ND	NC	136.	NC	NC
31.95	590.	ND	9.4	2302.	1.08	4.6	233.	ND	NC	136.	NC	NC
32.10	583.	ND	9.2	2255.	1.08	4.8	236.	ND	NC	134.	NC	NC
32.25	602.	ND	9.2	2252.	1.08	4.5	220.	ND	NC	138.	NC	NC
32.40	580.	ND	9.4	2316.	1.07	4.2	215.	ND	NC	133.	NC	NC
32.55	552.	ND	9.5	2347.	1.07	4.2	216.	ND	NC	127.	NC	NC
32.70	565.	ND	9.2	2259.	1.07	4.3	212.	ND	NC	130.	NC	NC
32.85	605.	ND	9.4	2307.	1.07	4.3	217.	ND	NC	139.	NC	NC
33.00	580.	ND	9.5	2336.	1.07	4.1	207.	ND	NC	133.	NC	NC
33.15	569.	ND	9.4	2313.	1.07	3.9	199.	ND	NC	131.	NC	NC
33.30	572.	ND	9.3	2275.	1.07	3.9	194.	ND	NC	132.	NC	NC
33.45	605.	ND	9.0	2221.	1.08	4.9	237.	ND	NC	139.	NC	NC
33.60	573.	ND	8.7	2133.	1.10	5.8	268.	ND	NC	132.	NC	NC
33.75	568.	ND	8.4	2074.	1.11	6.4	288.	ND	NC	131.	NC	NC
33.90	611.	ND	8.6	2108.	1.12	6.9	316.	ND	NC	140.	NC	NC
34.05	576.	ND	8.5	2097.	1.12	7.2	330.	ND	NC	132.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	567.	ND	8.4	2073.	1.12	7.3	331.	ND	NC	130.	NC	NC
34.35	595.	ND	8.4	2063.	1.13	7.5	338.	ND	NC	137.	NC	NC
34.50	589.	ND	8.5	2093.	1.13	7.4	337.	ND	NC	135.	NC	NC
34.65	575.	ND	8.5	2098.	1.12	7.1	325.	ND	NC	132.	NC	NC
34.80	568.	ND	8.5	2096.	1.11	6.6	303.	ND	NC	131.	NC	NC
34.95	591.	ND	8.8	2157.	1.11	6.5	308.	ND	NC	136.	NC	NC
35.10	558.	ND	8.7	2137.	1.11	6.4	296.	ND	NC	128.	NC	NC
35.25	557.	ND	8.8	2158.	1.10	6.0	282.	ND	NC	128.	NC	NC
35.40	601.	ND	9.1	2235.	1.10	5.7	277.	ND	NC	138.	NC	NC
35.55	576.	ND	9.0	2214.	1.10	5.6	272.	ND	NC	132.	NC	NC
35.70	570.	ND	8.8	2160.	1.09	5.3	251.	ND	NC	131.	NC	NC
35.85	586.	ND	8.8	2167.	1.09	5.1	243.	ND	NC	135.	NC	NC
36.00	584.	ND	8.9	2194.	1.09	5.1	245.	ND	NC	134.	NC	NC
36.15	568.	ND	9.0	2222.	1.09	5.5	265.	ND	NC	131.	NC	NC
36.30	585.	ND	8.7	2143.	1.10	5.7	269.	ND	NC	135.	NC	NC
36.45	601.	ND	8.5	2102.	1.11	6.8	310.	ND	NC	138.	NC	NC
36.60	587.	ND	8.6	2119.	1.12	7.2	335.	ND	NC	135.	NC	NC
36.75	578.	ND	8.5	2087.	1.13	7.5	342.	ND	NC	133.	NC	NC
36.90	625.	ND	8.5	2093.	1.13	7.4	340.	ND	NC	144.	NC	NC
37.05	615.	ND	8.6	2122.	1.13	7.9	364.	ND	NC	141.	NC	NC
37.20	610.	ND	8.6	2115.	1.14	8.2	377.	ND	NC	140.	NC	NC
37.35	616.	ND	8.6	2123.	1.14	8.2	380.	ND	NC	142.	NC	NC
37.50	639.	ND	8.8	2166.	1.13	7.8	368.	ND	NC	147.	NC	NC
37.65	599.	ND	8.8	2166.	1.12	7.3	348.	ND	NC	138.	NC	NC
37.80	624.	ND	8.7	2139.	1.12	6.8	318.	ND	NC	143.	NC	NC
37.95	636.	ND	8.6	2115.	1.13	7.7	354.	ND	NC	146.	NC	NC
38.10	626.	ND	8.5	2080.	1.14	8.3	377.	ND	NC	144.	NC	NC
38.25	596.	ND	8.4	2076.	1.14	8.0	361.	ND	NC	137.	NC	NC
38.40	625.	ND	8.5	2084.	1.13	7.7	349.	ND	NC	144.	NC	NC
38.55	607.	ND	8.3	2043.	1.15	8.7	389.	ND	NC	140.	NC	NC
38.70	590.	ND	7.8	1928.	1.18	10.4	438.	ND	NC	136.	NC	NC
38.85	602.	ND	7.7	1894.	1.21	12.5	516.	ND	NC	138.	NC	NC
39.00	615.	ND	8.0	1960.	1.20	11.6	498.	ND	NC	142.	NC	NC
39.15	590.	ND	8.2	2023.	1.19	10.9	482.	ND	NC	136.	NC	NC
39.30	592.	ND	8.0	1963.	1.18	10.5	450.	ND	NC	136.	NC	NC
39.45	621.	ND	7.8	1926.	1.20	11.6	487.	ND	NC	143.	NC	NC
39.60	611.	ND	7.8	1918.	1.20	11.9	497.	ND	NC	141.	NC	NC
39.75	640.	ND	8.0	1970.	1.18	10.4	446.	ND	NC	147.	NC	NC
39.90	656.	ND	7.9	1944.	1.16	9.6	409.	ND	NC	151.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	656.	ND	8.0	1961.	1.22	12.8	549.	ND	NC	151.	NC	NC
40.20	657.	ND	7.5	1833.	1.25	14.8	593.	ND	NC	151.	NC	NC
40.35	698.	ND	7.3	1806.	1.26	15.1	598.	ND	NC	161.	NC	NC
40.50	684.	ND	7.8	1917.	1.25	14.8	620.	ND	NC	157.	NC	NC
40.65	671.	ND	8.1	1998.	1.25	14.4	630.	ND	NC	154.	NC	NC
40.80	666.	ND	8.0	1969.	1.25	14.4	621.	ND	NC	153.	NC	NC
40.95	694.	ND	7.5	1856.	1.26	15.3	620.	ND	NC	160.	NC	NC
41.10	672.	ND	7.4	1829.	1.26	15.4	615.	ND	NC	155.	NC	NC
41.25	658.	ND	7.6	1874.	1.25	14.8	605.	ND	NC	151.	NC	NC
41.40	766.	ND	7.6	1868.	1.23	13.6	553.	ND	NC	162.	NC	NC
41.55	723.	ND	7.1	1735.	1.30	17.5	661.	ND	NC	166.	NC	NC
41.70	707.	ND	5.2	1276.	1.31	18.5	516.	ND	NC	163.	NC	NC
41.85	722.	ND	5.2	1285.	1.33	19.6	551.	ND	NC	166.	NC	NC
42.00	755.	ND	6.0	1476.	1.33	19.5	627.	ND	NC	174.	NC	NC
42.15	720.	ND	6.1	1503.	1.33	19.2	630.	ND	NC	166.	NC	NC
42.30	697.	ND	5.3	1315.	1.35	20.6	591.	ND	NC	160.	NC	NC
42.45	850.	ND	5.2	1274.	1.36	20.9	582.	ND	NC	195.	NC	NC
42.60	856.	ND	5.6	1366.	1.35	20.8	620.	ND	NC	197.	NC	NC
42.75	872.	ND	6.4	1571.	1.32	18.8	644.	ND	NC	201.	NC	NC
42.90	923.	ND	7.0	1728.	1.30	17.9	677.	ND	NC	212.	NC	NC
43.05	988.	ND	6.3	1545.	1.35	20.5	691.	ND	NC	227.	NC	NC
43.20	965.	ND	6.2	1530.	1.36	21.2	709.	ND	NC	222.	NC	NC
43.35	910.	ND	6.2	1516.	1.36	21.2	703.	ND	NC	209.	NC	NC
43.50	926.	ND	6.5	1595.	1.36	20.9	730.	ND	NC	213.	NC	NC
43.65	909.	ND	6.1	1500.	1.34	19.9	651.	ND	NC	209.	NC	NC
43.80	917.	ND	5.8	1426.	1.35	20.4	635.	ND	NC	211.	NC	NC
43.95	947.	ND	6.1	1504.	1.38	22.1	728.	ND	NC	218.	NC	NC
44.10	1069.	ND	6.3	1548.	1.35	20.9	705.	ND	NC	246.	NC	NC
44.25	1276.	ND	6.2	1527.	1.24	14.2	474.	ND	NC	293.	NC	NC
44.40	1029.	ND	9.1	2230.	1.10	6.1	297.	ND	NC	237.	NC	NC
44.55	914.	ND	4.2	1033.	1.13	7.6	172.	ND	NC	210.	NC	NC
44.70	854.	ND	4.9	1198.	1.21	12.1	317.	ND	NC	196.	NC	NC
44.85	864.	ND	4.2	1025.	1.31	18.4	412.	ND	NC	199.	NC	NC
45.00	897.	ND	4.7	1157.	1.33	19.6	495.	ND	NC	206.	NC	NC
45.15	840.	ND	3.1	755.	1.34	20.1	331.	ND	NC	193.	NC	NC
45.30	848.	ND	3.0	733.	1.36	21.3	340.	ND	NC	195.	NC	NC
45.45	874.	ND	3.7	906.	1.37	21.9	434.	ND	NC	201.	NC	NC
45.60	916.	ND	4.3	1051.	1.34	20.3	466.	ND	NC	211.	NC	NC
45.75	932.	ND	7.6	1859.	1.22	12.7	518.	ND	NC	214.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	912.	ND	9.9	2437.	1.19	11.3	601.	ND	NC	210.	NC	NC
46.05	904.	ND	10.3	2523.	1.18	10.7	587.	ND	NC	208.	NC	NC
46.20	893.	ND	9.7	2378.	1.18	10.5	547.	ND	NC	205.	NC	NC
46.35	902.	ND	10.4	2556.	1.09	5.3	297.	ND	NC	207.	NC	NC
46.50	907.	ND	10.6	2613.	1.10	5.6	320.	ND	NC	209.	NC	NC
46.65	907.	ND	10.0	2460.	1.08	4.5	244.	ND	NC	209.	NC	NC
46.80	904.	ND	10.7	2622.	1.04	2.6	149.	ND	NC	206.	NC	NC
46.95	902.	ND	9.7	2387.	1.03	1.8	93.	ND	NC	207.	NC	NC
47.10	902.	ND	8.8	2165.	1.02	1.2	57.	ND	NC	207.	NC	NC
47.25	868.	ND	10.3	2531.	1.01	0.9	47.	ND	NC	230.	NC	NC
47.40	835.	ND	11.3	2777.	1.01	0.8	49.	ND	NC	192.	NC	NC
47.55	802.	ND	10.6	2595.	1.01	0.8	47.	ND	NC	184.	NC	NC
47.70	743.	ND	9.9	2446.	1.01	0.7	38.	ND	NC	171.	NC	NC
47.85	721.	ND	9.9	2432.	1.01	0.6	29.	ND	NC	166.	NC	NC
48.00	717.	ND	10.0	2457.	1.01	0.6	35.	ND	NC	165.	NC	NC
48.15	706.	ND	10.4	2547.	1.02	1.0	53.	ND	NC	162.	NC	NC
48.30	689.	ND	10.6	2619.	1.02	1.0	55.	ND	NC	159.	NC	NC
48.45	690.	ND	10.3	2537.	1.03	1.6	90.	ND	NC	159.	NC	NC
48.60	715.	ND	10.1	2496.	1.02	0.9	50.	ND	NC	164.	NC	NC
48.75	705.	ND	10.2	2511.	1.02	1.1	60.	ND	NC	162.	NC	NC
48.90	709.	ND	10.6	2603.	1.02	1.5	83.	ND	NC	163.	NC	NC
49.05	716.	ND	10.4	2567.	1.02	1.1	59.	ND	NC	165.	NC	NC
49.20	706.	ND	10.6	2606.	1.01	0.7	41.	ND	NC	162.	NC	NC
49.35	704.	ND	10.4	2566.	1.01	0.8	44.	ND	NC	162.	NC	NC
49.50	714.	ND	10.2	2511.	1.01	0.6	32.	ND	NC	164.	NC	NC
49.65	714.	ND	10.2	2500.	1.04	2.2	120.	ND	NC	164.	NC	NC
49.80	700.	ND	10.3	2533.	1.03	1.9	103.	ND	NC	161.	NC	NC
49.95	696.	ND	10.4	2565.	1.03	2.0	114.	ND	NC	160.	NC	NC
50.10	707.	ND	9.6	2364.	1.03	1.7	88.	ND	NC	163.	NC	NC
50.25	697.	ND	10.3	2534.	1.02	1.0	58.	ND	NC	160.	NC	NC
50.40	669.	ND	10.3	2531.	1.03	1.7	97.	ND	NC	154.	NC	NC
50.55	623.	ND	9.8	2419.	1.03	2.0	107.	ND	NC	143.	NC	NC
50.70	589.	ND	9.8	2408.	1.05	2.9	154.	ND	NC	135.	NC	NC
50.85	588.	ND	9.7	2382.	1.05	3.0	159.	ND	NC	135.	NC	NC
51.00	600.	ND	9.6	2372.	1.06	3.7	193.	ND	NC	138.	NC	NC
51.15	593.	ND	9.4	2321.	1.08	5.0	251.	ND	NC	136.	NC	NC
51.30	575.	ND	9.9	2426.	1.08	4.5	238.	ND	NC	132.	NC	NC
51.45	573.	ND	10.1	2494.	1.07	4.1	222.	ND	NC	132.	NC	NC
51.60	595.	ND	10.1	2494.	1.07	4.4	237.	ND	NC	137.	NC	NC

RUN NUMBER- 16
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	581.	ND	10.5	2577.	1.07	4.2	239.	ND	NC	134.	NC	NC
51.90	555.	ND	10.9	2684.	1.07	4.0	235.	ND	NC	128.	NC	NC
52.05	554.	ND	10.3	2545.	1.06	3.4	192.	ND	NC	127.	NC	NC
52.20	550.	ND	10.4	2563.	1.06	3.7	207.	ND	NC	126.	NC	NC
52.35	538.	ND	10.6	2602.	1.05	2.8	160.	ND	NC	124.	NC	NC
52.50	549.	ND	10.8	2653.	1.05	3.1	178.	ND	NC	126.	NC	NC
52.65	552.	ND	10.6	2614.	1.06	3.4	197.	ND	NC	127.	NC	NC
52.80	545.	ND	10.7	2631.	1.05	3.2	182.	ND	NC	125.	NC	NC
52.95	545.	ND	10.8	2650.	1.06	3.2	188.	ND	NC	125.	NC	NC
53.10	556.	ND	10.9	2673.	1.06	3.3	193.	ND	NC	128.	NC	NC
53.25	526.	ND	11.5	2824.	1.06	3.4	208.	ND	NC	121.	NC	NC
53.40	529.	ND	11.5	2837.	1.06	3.5	220.	ND	NC	122.	NC	NC
53.55	548.	ND	11.0	2696.	1.06	3.5	209.	ND	NC	126.	NC	NC
53.70	533.	ND	11.3	2774.	1.06	3.5	215.	ND	NC	123.	NC	NC
53.85	537.	ND	12.0	2954.	1.06	3.5	225.	ND	NC	123.	NC	NC
54.00	547.	ND	11.6	2850.	1.06	3.3	207.	ND	NC	126.	NC	NC
54.15	548.	ND	11.3	2774.	1.06	3.4	207.	ND	NC	126.	NC	NC
54.30	533.	ND	12.0	2961.	1.06	3.4	223.	ND	NC	123.	NC	NC
54.45	532.	ND	11.9	2916.	1.06	3.4	218.	ND	NC	122.	NC	NC
54.60	549.	ND	11.5	2830.	1.06	3.5	214.	ND	NC	126.	NC	NC
54.75	538.	ND	11.9	2933.	1.06	3.4	219.	ND	NC	124.	NC	NC
54.90	542.	ND	12.1	2974.	1.06	3.5	225.	ND	NC	125.	NC	NC
55.05	545.	ND	11.9	2928.	1.05	3.1	198.	ND	NC	125.	NC	NC
55.20	539.	ND	11.8	2908.	1.06	3.2	206.	ND	NC	124.	NC	NC
55.35	536.	ND	12.3	3016.	1.05	2.7	180.	ND	NC	123.	NC	NC
55.50	539.	ND	12.5	3066.	1.04	2.4	162.	ND	NC	124.	NC	NC
55.65	541.	ND	11.7	2884.	1.05	2.8	177.	ND	NC	125.	NC	NC
55.80	539.	ND	11.6	2860.	1.05	2.9	179.	ND	NC	124.	NC	NC
55.95	543.	ND	11.9	2916.	1.05	2.9	183.	ND	NC	125.	NC	NC
56.10	556.	ND	11.5	2821.	1.05	2.9	182.	ND	NC	128.	NC	NC
56.25	547.	ND	11.8	2891.	1.05	2.8	177.	ND	NC	126.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 6 78
RUN NUMBER- 19
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	-6.	ND	-0.1	-24.	1.00	0.	0.	ND	NC	-1.	NC	NC
0.15	5.	ND	-0.1	-32.	1.00	0.	0.	ND	NC	1.	NC	NC
0.30	6.	ND	-0.1	-35.	1.00	0.	0.	ND	NC	1.	NC	NC
0.45	36.	ND	-0.1	-35.	1.00	0.	0.	ND	NC	8.	NC	NC
0.60	83.	ND	-0.1	-34.	1.00	0.	0.	ND	NC	19.	NC	NC
0.75	36.	ND	-0.1	-25.	1.00	0.	0.	ND	NC	8.	NC	NC
0.90	5.	ND	-0.1	-22.	1.00	0.	0.	ND	NC	1.	NC	NC
1.05	37.	ND	0.1	28.	1.00	0.	0.	ND	NC	9.	NC	NC
1.20	21.	ND	0.3	81.	1.00	0.	0.	ND	NC	5.	NC	NC
1.35	8.	ND	0.5	126.	1.00	0.	0.	ND	NC	2.	NC	NC
1.50	23.	ND	1.1	271.	1.01	0.3	2.	ND	NC	5.	NC	NC
1.65	35.	ND	0.8	203.	1.00	0.	0.	ND	NC	8.	NC	NC
1.80	15.	ND	0.4	110.	1.01	0.4	1.	ND	NC	3.	NC	NC
1.95	24.	ND	0.4	98.	1.01	0.4	1.	ND	NC	6.	NC	NC
2.10	54.	ND	0.4	90.	1.01	0.4	1.	ND	NC	12.	NC	NC
2.25	51.	ND	0.4	98.	1.01	0.4	1.	ND	NC	12.	NC	NC
2.40	25.	ND	1.2	297.	1.01	0.3	2.	ND	NC	6.	NC	NC
2.55	33.	ND	1.4	350.	1.00	0.	0.	ND	NC	8.	NC	NC
2.70	54.	ND	1.2	300.	1.01	0.3	2.	ND	NC	12.	NC	NC
2.85	57.	ND	1.4	338.	1.01	0.3	2.	ND	NC	13.	NC	NC
3.00	6.	ND	1.9	465.	1.00	0.	0.	ND	NC	1.	NC	NC
3.15	36.	ND	2.5	606.	1.01	0.3	4.	ND	NC	8.	NC	NC
3.30	80.	ND	2.1	504.	1.01	0.4	5.	ND	NC	18.	NC	NC
3.45	61.	ND	1.6	398.	1.01	0.5	4.	ND	NC	14.	NC	NC
3.60	97.	ND	1.7	420.	1.01	0.4	4.	ND	NC	22.	NC	NC
3.75	216.	ND	2.2	552.	1.01	0.4	5.	ND	NC	50.	NC	NC
3.90	142.	ND	2.3	571.	1.01	0.3	4.	ND	NC	33.	NC	NC
4.05	69.	ND	2.6	650.	1.01	0.5	7.	ND	NC	16.	NC	NC
4.20	103.	ND	2.8	696.	1.01	0.4	6.	ND	NC	24.	NC	NC
4.35	212.	ND	2.9	710.	1.01	0.4	6.	ND	NC	49.	NC	NC
4.50	68.	ND	2.7	661.	1.01	0.4	5.	ND	NC	16.	NC	NC
4.65	130.	ND	2.2	538.	1.01	0.4	5.	ND	NC	30.	NC	NC
4.80	252.	ND	2.1	505.	1.01	0.5	5.	ND	NC	58.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	115.	ND	2.3	556.	1.01	0.5	6.	ND	NC	26.	NC	NC
5.10	160.	ND	2.2	540.	1.01	0.7	9.	ND	NC	37.	NC	NC
5.25	306.	ND	2.9	706.	1.02	1.2	18.	ND	NC	70.	NC	NC
5.40	325.	ND	3.6	887.	1.02	1.1	22.	ND	NC	75.	NC	NC
5.55	345.	ND	4.1	994.	1.01	0.8	18.	ND	NC	79.	NC	NC
5.70	435.	ND	5.5	1349.	1.01	0.6	19.	ND	NC	100.	NC	NC
5.85	473.	ND	8.6	2104.	1.01	0.4	18.	ND	NC	109.	NC	NC
6.00	457.	ND	9.5	2332.	1.01	0.5	28.	ND	NC	105.	NC	NC
6.15	455.	ND	8.9	2182.	1.01	0.8	39.	ND	NC	105.	NC	NC
6.30	474.	ND	8.2	2028.	1.02	1.4	64.	ND	NC	109.	NC	NC
6.45	459.	ND	8.8	2153.	1.10	5.8	272.	ND	NC	106.	NC	NC
6.60	469.	ND	9.0	2210.	1.07	4.3	208.	ND	NC	108.	NC	NC
6.75	483.	ND	8.7	2151.	1.06	3.7	174.	ND	NC	111.	NC	NC
6.90	480.	ND	8.7	2130.	1.05	2.9	136.	ND	NC	110.	NC	NC
7.05	486.	ND	8.7	2132.	1.03	1.9	86.	ND	NC	112.	NC	NC
7.20	524.	ND	8.5	2101.	1.04	2.5	113.	ND	NC	120.	NC	NC
7.35	564.	ND	8.5	2091.	1.06	3.8	171.	ND	NC	130.	NC	NC
7.50	564.	ND	8.6	2124.	1.08	4.9	229.	ND	NC	130.	NC	NC
7.65	518.	ND	6.6	1615.	1.11	6.6	234.	ND	NC	119.	NC	NC
7.80	532.	ND	7.7	1904.	1.11	6.3	264.	ND	NC	122.	NC	NC
7.95	482.	ND	5.8	1418.	1.10	5.8	181.	ND	NC	111.	NC	NC
8.10	445.	ND	4.1	1003.	1.04	2.4	52.	ND	NC	102.	NC	NC
8.25	447.	ND	3.6	894.	1.03	1.8	35.	ND	NC	103.	NC	NC
8.40	520.	ND	4.3	1046.	1.02	1.2	27.	ND	NC	120.	NC	NC
8.55	551.	ND	5.1	1257.	1.02	0.9	25.	ND	NC	127.	NC	NC
8.70	505.	ND	5.5	1356.	1.04	2.2	66.	ND	NC	116.	NC	NC
8.85	515.	ND	7.2	1764.	1.04	2.4	92.	ND	NC	118.	NC	NC
9.00	575.	ND	8.7	2135.	1.03	1.7	79.	ND	NC	132.	NC	NC
9.15	532.	ND	8.9	2201.	1.06	3.4	162.	ND	NC	122.	NC	NC
9.30	530.	ND	8.5	2101.	1.10	5.9	271.	ND	NC	122.	NC	NC
9.45	563.	ND	8.3	2047.	1.11	6.3	281.	ND	NC	129.	NC	NC
9.60	564.	ND	8.4	2062.	1.07	4.4	199.	ND	NC	130.	NC	NC
9.75	524.	ND	8.4	2073.	1.10	6.2	280.	ND	NC	120.	NC	NC
9.90	544.	ND	8.5	2084.	1.09	5.3	242.	ND	NC	125.	NC	NC
10.05	563.	ND	8.5	2102.	1.06	3.6	165.	ND	NC	130.	NC	NC
10.20	523.	ND	8.6	2111.	1.10	5.9	274.	ND	NC	120.	NC	NC
10.35	523.	ND	8.4	2059.	1.12	6.9	310.	ND	NC	120.	NC	NC
10.50	560.	ND	8.6	2108.	1.07	4.3	198.	ND	NC	129.	NC	NC
10.65	535.	ND	8.8	2157.	1.07	4.4	206.	ND	NC	123.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	524.	ND	8.5	2092.	1.11	6.7	306.	ND	NC	121.	NC	NC
10.95	540.	ND	8.5	2102.	1.07	4.1	190.	ND	NC	124.	NC	NC
11.10	543.	ND	8.7	2133.	1.05	3.0	138.	ND	NC	125.	NC	NC
11.25	523.	ND	8.7	2142.	1.08	4.8	226.	ND	NC	120.	NC	NC
11.40	526.	ND	8.6	2104.	1.07	4.4	202.	ND	NC	121.	NC	NC
11.55	558.	ND	8.5	2092.	1.08	4.6	208.	ND	NC	128.	NC	NC
11.70	516.	ND	8.5	2099.	1.11	6.2	284.	ND	NC	119.	NC	NC
11.85	514.	ND	8.3	2041.	1.08	4.8	213.	ND	NC	118.	NC	NC
12.00	534.	ND	8.3	2041.	1.06	3.7	166.	ND	NC	123.	NC	NC
12.15	537.	ND	8.6	2106.	1.05	3.1	141.	ND	NC	123.	NC	NC
12.30	516.	ND	8.6	2111.	1.05	3.0	140.	ND	NC	119.	NC	NC
12.45	530.	ND	8.3	2047.	1.04	2.5	113.	ND	NC	122.	NC	NC
12.60	538.	ND	8.4	2069.	1.05	2.9	132.	ND	NC	124.	NC	NC
12.75	517.	ND	8.5	2100.	1.06	3.3	153.	ND	NC	119.	NC	NC
12.90	522.	ND	8.6	2107.	1.05	3.2	146.	ND	NC	120.	NC	NC
13.05	542.	ND	8.5	2079.	1.05	2.8	126.	ND	NC	125.	NC	NC
13.20	519.	ND	8.6	2114.	1.04	2.6	122.	ND	NC	119.	NC	NC
13.35	517.	ND	8.6	2103.	1.04	2.6	118.	ND	NC	119.	NC	NC
13.50	519.	ND	8.6	2103.	1.04	2.3	108.	ND	NC	119.	NC	NC
13.65	536.	ND	8.6	2110.	1.04	2.4	113.	ND	NC	123.	NC	NC
13.80	529.	ND	8.5	2100.	1.05	2.9	134.	ND	NC	122.	NC	NC
13.95	522.	ND	8.4	2070.	1.05	2.7	121.	ND	NC	120.	NC	NC
14.10	536.	ND	8.3	2035.	1.08	4.6	206.	ND	NC	123.	NC	NC
14.25	550.	ND	8.4	2056.	1.07	4.3	194.	ND	NC	127.	NC	NC
14.40	504.	ND	8.9	2185.	1.06	3.2	155.	ND	NC	116.	NC	NC
14.55	523.	ND	8.3	2030.	1.06	3.5	156.	ND	NC	120.	NC	NC
14.70	544.	ND	8.5	2089.	1.08	4.5	203.	ND	NC	125.	NC	NC
14.85	533.	ND	8.6	2126.	1.06	3.8	176.	ND	NC	123.	NC	NC
15.00	514.	ND	8.5	2102.	1.06	3.3	153.	ND	NC	118.	NC	NC
15.15	531.	ND	8.6	2121.	1.05	3.1	143.	ND	NC	122.	NC	NC
15.30	523.	ND	8.5	2097.	1.06	3.6	165.	ND	NC	120.	NC	NC
15.45	513.	ND	8.4	2074.	1.05	2.9	133.	ND	NC	118.	NC	NC
15.60	524.	ND	8.3	2053.	1.08	4.9	221.	ND	NC	120.	NC	NC
15.75	558.	ND	8.5	2080.	1.07	4.0	183.	ND	NC	128.	NC	NC
15.90	520.	ND	8.5	2098.	1.05	2.9	135.	ND	NC	120.	NC	NC
16.05	508.	ND	8.6	2103.	1.05	3.0	137.	ND	NC	117.	NC	NC
16.20	537.	ND	8.5	2082.	1.05	2.9	132.	ND	NC	124.	NC	NC
16.35	529.	ND	8.5	2088.	1.05	3.1	144.	ND	NC	122.	NC	NC
16.50	506.	ND	8.5	2062.	1.07	4.3	195.	ND	NC	116.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	513.	ND	8.4	2076.	1.08	4.5	206.	ND	NC	118.	NC	NC
16.80	536.	ND	8.5	2084.	1.07	3.9	177.	ND	NC	123.	NC	NC
16.95	503.	ND	8.5	2097.	1.05	3.1	141.	ND	NC	116.	NC	NC
17.10	513.	ND	8.5	2087.	1.04	2.6	120.	ND	NC	118.	NC	NC
17.25	534.	ND	8.4	2067.	1.04	2.3	104.	ND	NC	123.	NC	NC
17.40	510.	ND	8.7	2132.	1.04	2.3	109.	ND	NC	117.	NC	NC
17.55	513.	ND	8.8	2170.	1.05	2.8	131.	ND	NC	118.	NC	NC
17.70	525.	ND	8.6	2118.	1.05	3.2	146.	ND	NC	121.	NC	NC
17.85	531.	ND	8.4	2067.	1.05	3.2	146.	ND	NC	122.	NC	NC
18.00	508.	ND	8.5	2094.	1.05	3.0	137.	ND	NC	117.	NC	NC
18.15	517.	ND	8.4	2077.	1.05	2.7	120.	ND	NC	119.	NC	NC
18.30	524.	ND	8.1	2002.	1.04	2.4	104.	ND	NC	121.	NC	NC
18.45	509.	ND	8.3	2029.	1.04	2.6	116.	ND	NC	117.	NC	NC
18.60	507.	ND	8.2	2009.	1.07	4.2	183.	ND	NC	117.	NC	NC
18.75	517.	ND	8.0	1958.	1.09	5.3	228.	ND	NC	119.	NC	NC
18.90	526.	ND	8.2	2010.	1.07	4.2	186.	ND	NC	121.	NC	NC
19.05	518.	ND	8.4	2069.	1.06	3.8	172.	ND	NC	119.	NC	NC
19.20	515.	ND	8.0	1973.	1.06	3.5	152.	ND	NC	119.	NC	NC
19.35	520.	ND	8.1	2001.	1.06	3.4	147.	ND	NC	120.	NC	NC
19.50	513.	ND	8.3	2051.	1.06	3.6	159.	ND	NC	118.	NC	NC
19.65	497.	ND	8.5	2099.	1.06	3.4	156.	ND	NC	114.	NC	NC
19.80	511.	ND	8.5	2100.	1.06	3.5	162.	ND	NC	117.	NC	NC
19.95	539.	ND	8.5	2079.	1.07	4.2	192.	ND	NC	124.	NC	NC
20.10	507.	ND	8.4	2077.	1.05	3.2	145.	ND	NC	117.	NC	NC
20.25	500.	ND	8.3	2048.	1.05	2.9	129.	ND	NC	115.	NC	NC
20.40	520.	ND	8.4	2058.	1.04	2.6	116.	ND	NC	120.	NC	NC
20.55	520.	ND	8.5	2089.	1.04	2.4	109.	ND	NC	120.	NC	NC
20.70	503.	ND	8.5	2085.	1.04	2.4	108.	ND	NC	116.	NC	NC
20.85	508.	ND	8.5	2086.	1.05	2.8	128.	ND	NC	117.	NC	NC
21.00	539.	ND	8.5	2098.	1.05	3.1	143.	ND	NC	124.	NC	NC
21.15	499.	ND	8.4	2054.	1.04	2.6	119.	ND	NC	115.	NC	NC
21.30	504.	ND	8.1	1983.	1.05	2.7	117.	ND	NC	116.	NC	NC
21.45	527.	ND	8.0	1975.	1.06	3.4	146.	ND	NC	121.	NC	NC
21.60	504.	ND	8.1	1984.	1.06	3.8	163.	ND	NC	116.	NC	NC
21.75	489.	ND	8.0	1979.	1.07	3.8	166.	ND	NC	113.	NC	NC
21.90	517.	ND	8.0	1966.	1.07	4.4	188.	ND	NC	119.	NC	NC
22.05	508.	ND	8.1	1988.	1.07	4.2	182.	ND	NC	117.	NC	NC
22.20	485.	ND	8.1	1982.	1.06	3.5	151.	ND	NC	112.	NC	NC
22.35	512.	ND	8.0	1966.	1.06	3.7	161.	ND	NC	118.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	518.	ND	8.1	1992.	1.06	3.7	163.	ND	NC	119.	NC	NC
22.65	493.	ND	8.2	2012.	1.06	3.5	152.	ND	NC	113.	NC	NC
22.80	492.	ND	8.1	2003.	1.07	4.2	183.	ND	NC	113.	NC	NC
22.95	519.	ND	8.2	2020.	1.10	6.1	269.	ND	NC	119.	NC	NC
23.10	502.	ND	8.2	2014.	1.29	17.1	752.	ND	NC	116.	NC	NC
23.25	482.	ND	8.2	2019.	1.13	7.6	336.	ND	NC	111.	NC	NC
23.40	494.	ND	8.1	1998.	1.10	5.8	254.	ND	NC	114.	NC	NC
23.55	512.	ND	8.2	2012.	1.09	5.1	225.	ND	NC	118.	NC	NC
23.70	488.	ND	8.3	2035.	1.07	4.0	176.	ND	NC	112.	NC	NC
23.85	503.	ND	8.2	2010.	1.07	4.0	174.	ND	NC	116.	NC	NC
24.00	505.	ND	8.0	1969.	1.06	3.8	163.	ND	NC	116.	NC	NC
24.15	503.	ND	8.3	2047.	1.06	3.8	169.	ND	NC	116.	NC	NC
24.30	491.	ND	8.3	2033.	1.07	3.9	174.	ND	NC	113.	NC	NC
24.45	502.	ND	8.0	1973.	1.06	3.7	161.	ND	NC	116.	NC	NC
24.60	506.	ND	8.2	2021.	1.08	4.9	217.	ND	NC	116.	NC	NC
24.75	495.	ND	8.3	2048.	1.07	4.0	180.	ND	NC	114.	NC	NC
24.90	503.	ND	8.1	1993.	1.06	3.7	161.	ND	NC	116.	NC	NC
25.05	513.	ND	7.7	1894.	1.07	4.4	181.	ND	NC	118.	NC	NC
25.20	513.	ND	7.7	1905.	1.07	4.2	175.	ND	NC	118.	NC	NC
25.35	481.	ND	7.4	1813.	1.07	4.2	165.	ND	NC	111.	NC	NC
25.50	495.	ND	7.3	1799.	1.08	4.8	189.	ND	NC	114.	NC	NC
25.65	520.	ND	7.4	1816.	1.09	5.2	207.	ND	NC	120.	NC	NC
25.80	503.	ND	7.5	1854.	1.09	5.6	226.	ND	NC	116.	NC	NC
25.95	486.	ND	7.4	1827.	1.11	6.2	248.	ND	NC	112.	NC	NC
26.10	508.	ND	7.6	1873.	1.09	5.3	216.	ND	NC	117.	NC	NC
26.25	531.	ND	7.8	1918.	1.09	5.5	229.	ND	NC	122.	NC	NC
26.40	500.	ND	7.9	1953.	1.09	5.3	227.	ND	NC	115.	NC	NC
26.55	500.	ND	7.4	1827.	1.09	5.0	201.	ND	NC	115.	NC	NC
26.70	537.	ND	7.8	1910.	1.10	5.7	238.	ND	NC	124.	NC	NC
26.85	472.	ND	7.9	1939.	1.09	5.1	215.	ND	NC	109.	NC	NC
27.00	480.	ND	7.9	1937.	1.08	4.6	193.	ND	NC	110.	NC	NC
27.15	515.	ND	8.0	1959.	1.06	3.8	162.	ND	NC	118.	NC	NC
27.30	495.	ND	7.9	1950.	1.05	3.0	129.	ND	NC	114.	NC	NC
27.45	478.	ND	8.0	1964.	1.05	2.7	117.	ND	NC	110.	NC	NC
27.60	485.	ND	8.0	1964.	1.04	2.5	108.	ND	NC	112.	NC	NC
27.75	524.	ND	8.0	1966.	1.07	4.4	189.	ND	NC	121.	NC	NC
27.90	476.	ND	8.1	1989.	1.08	4.5	194.	ND	NC	109.	NC	NC
28.05	476.	ND	8.1	1982.	1.06	3.3	144.	ND	NC	110.	NC	NC
28.20	513.	ND	8.3	2041.	1.05	2.7	120.	ND	NC	118.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	490.	ND	8.2	2021.	1.05	3.1	136.	ND	NC	113.	NC	NC
28.50	483.	ND	7.9	1933.	1.07	3.8	162.	ND	NC	111.	NC	NC
28.65	503.	ND	7.2	1771.	1.11	6.2	241.	ND	NC	116.	NC	NC
28.80	482.	ND	7.4	1808.	1.14	8.1	321.	ND	NC	111.	NC	NC
28.95	467.	ND	7.1	1734.	1.14	8.5	322.	ND	NC	107.	NC	NC
29.10	481.	ND	6.9	1695.	1.12	7.1	264.	ND	NC	111.	NC	NC
29.25	498.	ND	7.0	1715.	1.11	6.3	237.	ND	NC	114.	NC	NC
29.40	477.	ND	7.0	1729.	1.11	6.6	250.	ND	NC	110.	NC	NC
29.55	478.	ND	6.6	1633.	1.12	7.3	261.	ND	NC	110.	NC	NC
29.70	510.	ND	6.9	1701.	1.15	9.0	334.	ND	NC	117.	NC	NC
29.85	486.	ND	7.6	1876.	1.15	8.9	363.	ND	NC	112.	NC	NC
30.00	473.	ND	7.3	1804.	1.11	6.4	251.	ND	NC	109.	NC	NC
30.15	488.	ND	7.0	1719.	1.10	6.1	228.	ND	NC	112.	NC	NC
30.30	496.	ND	7.1	1747.	1.10	6.0	230.	ND	NC	114.	NC	NC
30.45	495.	ND	7.5	1845.	1.10	5.8	235.	ND	NC	114.	NC	NC
30.60	483.	ND	7.4	1824.	1.10	5.9	237.	ND	NC	111.	NC	NC
30.75	495.	ND	7.4	1819.	1.13	7.5	297.	ND	NC	114.	NC	NC
30.90	510.	ND	7.5	1856.	1.11	6.4	260.	ND	NC	117.	NC	NC
31.05	467.	ND	7.5	1846.	1.09	5.4	219.	ND	NC	107.	NC	NC
31.20	490.	ND	7.5	1833.	1.08	4.6	183.	ND	NC	113.	NC	NC
31.35	523.	ND	7.5	1842.	1.08	4.4	179.	ND	NC	120.	NC	NC
31.50	488.	ND	7.5	1855.	1.09	5.3	215.	ND	NC	112.	NC	NC
31.65	479.	ND	7.5	1837.	1.07	4.2	170.	ND	NC	110.	NC	NC
31.80	509.	ND	7.6	1872.	1.10	6.1	248.	ND	NC	117.	NC	NC
31.95	484.	ND	7.7	1893.	1.08	4.6	189.	ND	NC	111.	NC	NC
32.10	466.	ND	7.7	1887.	1.07	3.9	162.	ND	NC	107.	NC	NC
32.25	481.	ND	7.6	1873.	1.06	3.4	139.	ND	NC	111.	NC	NC
32.40	510.	ND	7.8	1924.	1.05	3.1	131.	ND	NC	117.	NC	NC
32.55	479.	ND	7.5	1855.	1.05	3.2	130.	ND	NC	110.	NC	NC
32.70	477.	ND	6.7	1654.	1.10	6.0	215.	ND	NC	110.	NC	NC
32.85	503.	ND	7.1	1751.	1.17	9.9	378.	ND	NC	116.	NC	NC
33.00	496.	ND	6.8	1672.	1.15	8.9	327.	ND	NC	114.	NC	NC
33.15	457.	ND	6.7	1655.	1.15	8.6	312.	ND	NC	105.	NC	NC
33.30	482.	ND	6.7	1647.	1.15	8.5	308.	ND	NC	111.	NC	NC
33.45	503.	ND	6.5	1605.	1.19	11.2	394.	ND	NC	116.	NC	NC
33.60	471.	ND	6.3	1553.	1.19	11.0	372.	ND	NC	108.	NC	NC
33.75	463.	ND	6.3	1545.	1.19	11.3	381.	ND	NC	106.	NC	NC
33.90	493.	ND	6.6	1613.	1.19	11.0	386.	ND	NC	113.	NC	NC
34.05	468.	ND	6.7	1642.	1.17	10.2	365.	ND	NC	108.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	466.	ND	6.5	1593.	1.16	9.4	326.	ND	NC	107.	NC	NC
34.35	486.	ND	6.5	1601.	1.14	8.5	296.	ND	NC	112.	NC	NC
34.50	501.	ND	6.7	1653.	1.14	8.2	295.	ND	NC	115.	NC	NC
34.65	471.	ND	6.6	1630.	1.14	8.4	298.	ND	NC	108.	NC	NC
34.80	473.	ND	6.6	1613.	1.13	7.8	275.	ND	NC	109.	NC	NC
34.95	497.	ND	6.6	1615.	1.13	7.5	264.	ND	NC	114.	NC	NC
35.10	457.	ND	6.7	1640.	1.12	7.3	261.	ND	NC	105.	NC	NC
35.25	457.	ND	6.7	1636.	1.12	7.1	252.	ND	NC	105.	NC	NC
35.40	481.	ND	6.5	1605.	1.12	6.9	241.	ND	NC	111.	NC	NC
35.55	482.	ND	6.8	1669.	1.12	7.2	263.	ND	NC	111.	NC	NC
35.70	472.	ND	6.9	1694.	1.11	6.6	244.	ND	NC	108.	NC	NC
35.85	459.	ND	6.9	1695.	1.10	5.9	219.	ND	NC	106.	NC	NC
36.00	507.	ND	6.8	1681.	1.11	6.3	233.	ND	NC	116.	NC	NC
36.15	498.	ND	6.9	1702.	1.10	6.1	227.	ND	NC	115.	NC	NC
36.30	472.	ND	6.8	1682.	1.10	5.7	209.	ND	NC	108.	NC	NC
36.45	480.	ND	6.8	1670.	1.09	5.4	196.	ND	NC	110.	NC	NC
36.60	495.	ND	7.1	1741.	1.09	5.2	197.	ND	NC	114.	NC	NC
36.75	465.	ND	6.8	1662.	1.10	5.9	213.	ND	NC	107.	NC	NC
36.90	474.	ND	6.4	1572.	1.10	6.0	207.	ND	NC	109.	NC	NC
37.05	497.	ND	6.8	1680.	1.10	5.7	208.	ND	NC	114.	NC	NC
37.20	488.	ND	6.8	1677.	1.09	5.4	199.	ND	NC	112.	NC	NC
37.35	459.	ND	6.5	1588.	1.08	5.0	172.	ND	NC	106.	NC	NC
37.50	481.	ND	6.0	1487.	1.17	10.0	325.	ND	NC	111.	NC	NC
37.65	516.	ND	6.1	1488.	1.18	10.7	346.	ND	NC	119.	NC	NC
37.80	421.	ND	5.3	1308.	1.21	12.4	353.	ND	NC	97.	NC	NC
37.95	429.	ND	5.0	1220.	1.26	15.0	401.	ND	NC	99.	NC	NC
38.10	501.	ND	5.5	1349.	1.25	14.7	433.	ND	NC	115.	NC	NC
38.25	460.	ND	5.4	1325.	1.22	13.0	377.	ND	NC	106.	NC	NC
38.40	444.	ND	5.4	1338.	1.21	12.6	369.	ND	NC	102.	NC	NC
38.55	481.	ND	5.8	1414.	1.19	11.2	346.	ND	NC	111.	NC	NC
38.70	496.	ND	6.4	1583.	1.18	10.8	372.	ND	NC	114.	NC	NC
38.85	451.	ND	6.2	1523.	1.16	9.4	312.	ND	NC	104.	NC	NC
39.00	461.	ND	6.0	1470.	1.16	9.6	310.	ND	NC	106.	NC	NC
39.15	499.	ND	6.1	1511.	1.16	9.3	307.	ND	NC	115.	NC	NC
39.30	472.	ND	6.1	1507.	1.13	7.4	243.	ND	NC	108.	NC	NC
39.45	463.	ND	6.0	1470.	1.12	6.8	219.	ND	NC	107.	NC	NC
39.60	503.	ND	6.1	1494.	1.11	6.8	220.	ND	NC	116.	NC	NC
39.75	486.	ND	6.3	1549.	1.12	7.3	248.	ND	NC	112.	NC	NC
39.90	462.	ND	6.5	1601.	1.17	9.9	347.	ND	NC	106.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	482.	ND	6.5	1608.	1.11	6.5	228.	ND	NC	111.	NC	NC
40.20	486.	ND	6.7	1645.	1.10	6.1	218.	ND	NC	112.	NC	NC
40.35	475.	ND	6.8	1665.	1.09	5.6	203.	ND	NC	109.	NC	NC
40.50	469.	ND	6.4	1577.	1.09	5.4	184.	ND	NC	108.	NC	NC
40.65	490.	ND	6.3	1560.	1.09	5.4	184.	ND	NC	113.	NC	NC
40.80	463.	ND	7.0	1713.	1.10	5.9	219.	ND	NC	106.	NC	NC
40.95	475.	ND	7.0	1713.	1.11	6.8	253.	ND	NC	109.	NC	NC
41.10	492.	ND	6.9	1699.	1.08	4.9	184.	ND	NC	113.	NC	NC
41.25	502.	ND	7.3	1789.	1.08	4.9	190.	ND	NC	115.	NC	NC
41.40	487.	ND	7.0	1716.	1.05	3.2	119.	ND	NC	112.	NC	NC
41.55	468.	ND	6.9	1694.	1.05	3.2	119.	ND	NC	108.	NC	NC
41.70	478.	ND	7.0	1723.	1.06	3.5	133.	ND	NC	110.	NC	NC
41.85	507.	ND	7.5	1839.	1.07	4.0	163.	ND	NC	117.	NC	NC
42.00	481.	ND	7.5	1847.	1.08	4.5	180.	ND	NC	111.	NC	NC
42.15	485.	ND	7.4	1819.	1.06	3.3	129.	ND	NC	112.	NC	NC
42.30	502.	ND	7.9	1941.	1.05	2.8	117.	ND	NC	115.	NC	NC
42.45	486.	ND	7.8	1930.	1.05	3.0	125.	ND	NC	112.	NC	NC
42.60	483.	ND	7.7	1881.	1.05	2.9	121.	ND	NC	111.	NC	NC
42.75	492.	ND	8.0	1959.	1.04	2.6	111.	ND	NC	113.	NC	NC
42.90	509.	ND	7.8	1929.	1.05	3.1	132.	ND	NC	117.	NC	NC
43.05	475.	ND	7.7	1900.	1.06	3.4	142.	ND	NC	109.	NC	NC
43.20	465.	ND	7.9	1950.	1.06	3.3	139.	ND	NC	107.	NC	NC
43.35	496.	ND	8.3	2033.	1.05	3.2	142.	ND	NC	114.	NC	NC
43.50	452.	ND	8.2	2023.	1.05	3.1	139.	ND	NC	104.	NC	NC
43.65	443.	ND	7.9	1950.	1.05	3.0	126.	ND	NC	102.	NC	NC
43.80	478.	ND	8.2	2008.	1.05	3.2	139.	ND	NC	110.	NC	NC
43.95	471.	ND	8.2	2011.	1.06	3.6	159.	ND	NC	108.	NC	NC
44.10	451.	ND	8.4	2067.	1.06	3.3	149.	ND	NC	104.	NC	NC
44.25	469.	ND	8.3	2031.	1.05	2.8	126.	ND	NC	108.	NC	NC
44.40	497.	ND	8.2	2017.	1.04	2.5	109.	ND	NC	114.	NC	NC
44.55	461.	ND	8.2	2011.	1.04	2.2	98.	ND	NC	106.	NC	NC
44.70	451.	ND	8.5	2080.	1.03	2.0	92.	ND	NC	104.	NC	NC
44.85	490.	ND	8.5	2081.	1.05	2.8	129.	ND	NC	113.	NC	NC
45.00	475.	ND	8.7	2130.	1.08	4.9	230.	ND	NC	109.	NC	NC
45.15	461.	ND	8.5	2086.	1.06	3.3	151.	ND	NC	106.	NC	NC
45.30	463.	ND	8.5	2085.	1.05	2.8	128.	ND	NC	107.	NC	NC
45.45	476.	ND	8.5	2084.	1.04	2.5	113.	ND	NC	109.	NC	NC
45.60	441.	ND	8.5	2081.	1.04	2.5	113.	ND	NC	102.	NC	NC
45.75	427.	ND	8.3	2032.	1.05	2.7	120.	ND	NC	98.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 6 78
RUN NUMBER- 19
SEGMENT NUMBER- 2
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	457.	ND	8.4	2062.	1.04	2.4	106.	ND	NC	105.	NC	NC
0.15	434.	ND	8.3	2052.	1.04	2.3	103.	ND	NC	100.	NC	NC
0.30	426.	ND	8.1	1988.	1.04	2.5	111.	ND	NC	98.	NC	NC
0.45	428.	ND	8.0	1969.	1.05	3.2	136.	ND	NC	98.	NC	NC
0.60	391.	ND	8.0	1962.	1.05	2.7	115.	ND	NC	90.	NC	NC
0.75	424.	ND	7.9	1952.	1.04	2.3	98.	ND	NC	97.	NC	NC
0.90	487.	ND	8.0	1960.	1.04	2.1	91.	ND	NC	112.	NC	NC
1.05	509.	ND	8.4	2058.	1.03	2.0	89.	ND	NC	117.	NC	NC
1.20	514.	ND	8.9	2193.	1.03	2.0	94.	ND	NC	118.	NC	NC
1.35	561.	ND	9.0	2209.	1.04	2.4	118.	ND	NC	129.	NC	NC
1.50	559.	ND	9.0	2218.	1.07	4.3	210.	ND	NC	129.	NC	NC
1.65	559.	ND	9.3	2297.	1.05	3.2	159.	ND	NC	129.	NC	NC
1.80	570.	ND	9.9	2423.	1.04	2.6	136.	ND	NC	131.	NC	NC
1.95	580.	ND	9.6	2369.	1.03	2.0	104.	ND	NC	133.	NC	NC
2.10	568.	ND	9.7	2395.	1.03	1.6	81.	ND	NC	131.	NC	NC
2.25	559.	ND	9.5	2324.	1.03	1.6	81.	ND	NC	129.	NC	NC
2.40	563.	ND	9.1	2246.	1.05	2.7	133.	ND	NC	130.	NC	NC
2.55	593.	ND	9.1	2235.	1.09	5.0	244.	ND	NC	136.	NC	NC
2.70	560.	ND	9.1	2235.	1.04	2.3	114.	ND	NC	129.	NC	NC
2.85	549.	ND	8.5	2088.	1.04	2.4	111.	ND	NC	126.	NC	NC
3.00	566.	ND	8.3	2038.	1.04	2.4	106.	ND	NC	130.	NC	NC
3.15	584.	ND	8.5	2092.	1.04	2.5	113.	ND	NC	134.	NC	NC
3.30	551.	ND	8.4	2070.	1.04	2.5	112.	ND	NC	127.	NC	NC
3.45	554.	ND	8.5	2087.	1.06	3.8	174.	ND	NC	127.	NC	NC
3.60	595.	ND	8.5	2100.	1.08	4.8	221.	ND	NC	137.	NC	NC
3.75	550.	ND	8.5	2079.	1.07	4.2	189.	ND	NC	126.	NC	NC
3.90	552.	ND	8.4	2068.	1.06	3.4	153.	ND	NC	127.	NC	NC
4.05	576.	ND	8.5	2097.	1.05	2.7	124.	ND	NC	132.	NC	NC
4.20	559.	ND	8.8	2167.	1.05	2.8	130.	ND	NC	129.	NC	NC
4.35	551.	ND	8.6	2125.	1.05	2.8	128.	ND	NC	127.	NC	NC
4.50	564.	ND	8.4	2078.	1.10	5.7	260.	ND	NC	130.	NC	NC
4.65	570.	ND	8.4	2075.	1.07	3.9	175.	ND	NC	131.	NC	NC
4.80	540.	ND	8.6	2108.	1.05	2.7	124.	ND	NC	124.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	564.	ND	8.6	2112.	1.04	2.4	109.	ND	NC	130.	NC	NC
5.10	572.	ND	8.3	2031.	1.04	2.5	109.	ND	NC	132.	NC	NC
5.25	543.	ND	7.8	1926.	1.09	5.5	231.	ND	NC	125.	NC	NC
5.40	539.	ND	7.7	1901.	1.13	7.5	312.	ND	NC	124.	NC	NC
5.55	551.	ND	7.7	1893.	1.14	8.0	329.	ND	NC	127.	NC	NC
5.70	559.	ND	7.7	1890.	1.12	7.1	293.	ND	NC	129.	NC	NC
5.85	545.	ND	7.8	1928.	1.11	6.6	276.	ND	NC	125.	NC	NC
6.00	554.	ND	7.8	1918.	1.09	5.4	226.	ND	NC	127.	NC	NC
6.15	566.	ND	7.7	1900.	1.09	5.4	225.	ND	NC	130.	NC	NC
6.30	554.	ND	8.1	1988.	1.09	5.5	238.	ND	NC	127.	NC	NC
6.45	556.	ND	8.2	2018.	1.08	4.4	195.	ND	NC	128.	NC	NC
6.60	574.	ND	7.9	1951.	1.10	6.2	263.	ND	NC	132.	NC	NC
6.75	565.	ND	8.2	2025.	1.07	4.4	195.	ND	NC	130.	NC	NC
6.90	548.	ND	8.2	2028.	1.07	4.2	185.	ND	NC	126.	NC	NC
7.05	552.	ND	8.1	1992.	1.06	3.5	153.	ND	NC	127.	NC	NC
7.20	575.	ND	8.1	1995.	1.06	3.3	144.	ND	NC	132.	NC	NC
7.35	556.	ND	8.4	2072.	1.06	3.4	152.	ND	NC	128.	NC	NC
7.50	541.	ND	8.4	2062.	1.09	5.2	234.	ND	NC	125.	NC	NC
7.65	561.	ND	8.4	2072.	1.09	5.5	248.	ND	NC	129.	NC	NC
7.80	583.	ND	8.5	2097.	1.06	3.6	166.	ND	NC	134.	NC	NC
7.95	552.	ND	8.5	2080.	1.06	3.5	158.	ND	NC	127.	NC	NC
8.10	553.	ND	8.3	2047.	1.05	2.8	126.	ND	NC	127.	NC	NC
8.25	579.	ND	8.6	2121.	1.05	3.0	137.	ND	NC	133.	NC	NC
8.40	575.	ND	8.7	2144.	1.06	3.3	153.	ND	NC	132.	NC	NC
8.55	547.	ND	8.7	2130.	1.08	4.9	229.	ND	NC	126.	NC	NC
8.70	566.	ND	8.4	2074.	1.07	4.3	197.	ND	NC	130.	NC	NC
8.85	596.	ND	8.4	2074.	1.05	2.8	128.	ND	NC	137.	NC	NC
9.00	563.	ND	8.4	2074.	1.04	2.5	115.	ND	NC	129.	NC	NC
9.15	542.	ND	8.3	2042.	1.04	2.4	107.	ND	NC	125.	NC	NC
9.30	565.	ND	8.4	2062.	1.04	2.2	99.	ND	NC	130.	NC	NC
9.45	554.	ND	8.4	2069.	1.06	3.7	167.	ND	NC	127.	NC	NC
9.60	542.	ND	7.8	1914.	1.11	6.7	281.	ND	NC	125.	NC	NC
9.75	547.	ND	7.5	1835.	1.09	5.5	222.	ND	NC	126.	NC	NC
9.90	581.	ND	7.3	1802.	1.12	7.0	277.	ND	NC	134.	NC	NC
10.05	547.	ND	7.1	1758.	1.13	7.5	286.	ND	NC	126.	NC	NC
10.20	554.	ND	7.1	1742.	1.12	6.9	264.	ND	NC	127.	NC	NC
10.35	568.	ND	7.2	1762.	1.12	7.2	278.	ND	NC	131.	NC	NC
10.50	539.	ND	7.1	1745.	1.19	11.1	424.	ND	NC	124.	NC	NC
10.65	545.	ND	7.1	1738.	1.25	14.5	549.	ND	NC	125.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	562.	ND	7.1	1746.	1.17	10.1	384.	ND	NC	129.	NC	NC
10.95	550.	ND	7.3	1790.	1.14	8.0	314.	ND	NC	127.	NC	NC
11.10	533.	ND	7.3	1788.	1.12	7.3	284.	ND	NC	123.	NC	NC
11.25	529.	ND	7.1	1753.	1.11	6.5	248.	ND	NC	122.	NC	NC
11.40	554.	ND	7.2	1760.	1.09	5.2	198.	ND	NC	127.	NC	NC
11.55	541.	ND	7.5	1839.	1.17	9.8	393.	ND	NC	124.	NC	NC
11.70	551.	ND	7.5	1840.	1.17	9.8	396.	ND	NC	127.	NC	NC
11.85	558.	ND	7.5	1847.	1.11	6.2	251.	ND	NC	128.	NC	NC
12.00	557.	ND	7.7	1896.	1.08	4.7	196.	ND	NC	128.	NC	NC
12.15	541.	ND	8.0	1966.	1.07	4.3	185.	ND	NC	124.	NC	NC
12.30	555.	ND	7.9	1944.	1.09	5.3	223.	ND	NC	128.	NC	NC
12.45	564.	ND	7.8	1930.	1.09	5.1	214.	ND	NC	130.	NC	NC
12.60	548.	ND	8.1	1988.	1.15	8.6	373.	ND	NC	126.	NC	NC
12.75	547.	ND	7.9	1948.	1.10	5.6	239.	ND	NC	126.	NC	NC
12.90	568.	ND	7.7	1900.	1.06	3.6	149.	ND	NC	131.	NC	NC
13.05	574.	ND	8.3	2048.	1.05	3.1	140.	ND	NC	132.	NC	NC
13.20	557.	ND	8.4	2060.	1.05	3.0	134.	ND	NC	128.	NC	NC
13.35	566.	ND	8.1	1995.	1.05	3.0	132.	ND	NC	130.	NC	NC
13.50	584.	ND	8.2	2026.	1.07	4.1	180.	ND	NC	134.	NC	NC
13.65	560.	ND	8.2	2026.	1.16	9.5	420.	ND	NC	129.	NC	NC
13.80	543.	ND	8.1	1988.	1.09	5.1	223.	ND	NC	125.	NC	NC
13.95	564.	ND	7.9	1951.	1.06	3.4	146.	ND	NC	130.	NC	NC
14.10	584.	ND	7.9	1932.	1.07	4.3	181.	ND	NC	134.	NC	NC
14.25	535.	ND	7.2	1777.	1.11	6.3	244.	ND	NC	123.	NC	NC
14.40	535.	ND	7.2	1777.	1.11	6.5	254.	ND	NC	123.	NC	NC
14.55	562.	ND	7.8	1923.	1.10	6.1	255.	ND	NC	129.	NC	NC
14.70	545.	ND	7.7	1894.	1.10	5.9	245.	ND	NC	125.	NC	NC
14.85	532.	ND	7.4	1828.	1.09	5.2	207.	ND	NC	122.	NC	NC
15.00	561.	ND	7.5	1847.	1.09	5.1	205.	ND	NC	129.	NC	NC
15.15	557.	ND	7.7	1901.	1.08	4.7	196.	ND	NC	128.	NC	NC
15.30	537.	ND	7.7	1887.	1.07	4.2	172.	ND	NC	123.	NC	NC
15.45	550.	ND	7.6	1871.	1.06	3.7	150.	ND	NC	127.	NC	NC
15.60	567.	ND	7.9	1931.	1.07	4.1	175.	ND	NC	130.	NC	NC
15.75	547.	ND	8.1	1990.	1.07	4.4	190.	ND	NC	126.	NC	NC
15.90	538.	ND	7.6	1879.	1.07	4.2	171.	ND	NC	124.	NC	NC
16.05	563.	ND	7.7	1897.	1.05	3.2	132.	ND	NC	129.	NC	NC
16.20	545.	ND	7.8	1924.	1.05	3.0	128.	ND	NC	125.	NC	NC
16.35	533.	ND	7.8	1929.	1.08	4.8	202.	ND	NC	123.	NC	NC
16.50	550.	ND	7.8	1926.	1.09	5.2	217.	ND	NC	126.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	568.	ND	7.9	1950.	1.14	8.1	347.	ND	NC	131.	NC	NC
16.80	536.	ND	7.7	1895.	1.13	7.8	322.	ND	NC	123.	NC	NC
16.95	541.	ND	7.7	1904.	1.10	5.6	234.	ND	NC	124.	NC	NC
17.10	559.	ND	7.9	1946.	1.07	4.4	187.	ND	NC	129.	NC	NC
17.25	541.	ND	8.1	1987.	1.07	4.1	180.	ND	NC	124.	NC	NC
17.40	541.	ND	8.1	1987.	1.06	3.4	147.	ND	NC	124.	NC	NC
17.55	557.	ND	7.6	1877.	1.09	5.0	205.	ND	NC	128.	NC	NC
17.70	555.	ND	7.7	1904.	1.18	10.4	432.	ND	NC	128.	NC	NC
17.85	548.	ND	7.9	1949.	1.12	7.0	296.	ND	NC	126.	NC	NC
18.00	549.	ND	7.9	1952.	1.07	4.0	170.	ND	NC	126.	NC	NC
18.15	562.	ND	7.9	1947.	1.06	3.3	141.	ND	NC	129.	NC	NC
18.30	550.	ND	8.0	1971.	1.06	3.4	145.	ND	NC	126.	NC	NC
18.45	542.	ND	7.7	1905.	1.06	3.6	152.	ND	NC	125.	NC	NC
18.60	555.	ND	7.8	1909.	1.10	5.6	235.	ND	NC	128.	NC	NC
18.75	569.	ND	8.1	1999.	1.10	5.9	256.	ND	NC	131.	NC	NC
18.90	541.	ND	8.0	1966.	1.06	3.4	145.	ND	NC	124.	NC	NC
19.05	543.	ND	7.7	1887.	1.05	2.9	119.	ND	NC	125.	NC	NC
19.20	552.	ND	7.8	1913.	1.05	3.2	132.	ND	NC	127.	NC	NC
19.35	568.	ND	8.0	1957.	1.05	3.2	136.	ND	NC	131.	NC	NC
19.50	543.	ND	7.8	1912.	1.07	3.9	161.	ND	NC	125.	NC	NC
19.65	550.	ND	8.0	1963.	1.12	6.9	296.	ND	NC	127.	NC	NC
19.80	577.	ND	8.3	2052.	1.12	6.8	304.	ND	NC	133.	NC	NC
19.95	536.	ND	8.2	2019.	1.08	4.5	198.	ND	NC	123.	NC	NC
20.10	552.	ND	8.0	1967.	1.05	3.2	136.	ND	NC	127.	NC	NC
20.25	569.	ND	8.2	2026.	1.04	2.4	107.	ND	NC	131.	NC	NC
20.40	537.	ND	8.2	2019.	1.04	2.6	115.	ND	NC	124.	NC	NC
20.55	527.	ND	8.0	1963.	1.36	3.7	157.	ND	NC	121.	NC	NC
20.70	545.	ND	8.0	1973.	1.12	7.1	308.	ND	NC	125.	NC	NC
20.85	578.	ND	7.9	1938.	1.07	4.1	173.	ND	NC	133.	NC	NC
21.00	534.	ND	7.3	1803.	1.06	3.6	142.	ND	NC	123.	NC	NC
21.15	522.	ND	6.9	1707.	1.07	3.9	147.	ND	NC	120.	NC	NC
21.30	563.	ND	7.0	1713.	1.10	5.6	209.	ND	NC	130.	NC	NC
21.45	510.	ND	6.4	1577.	1.17	9.8	337.	ND	NC	117.	NC	NC
21.60	506.	ND	6.1	1508.	1.22	12.8	420.	ND	NC	116.	NC	NC
21.75	549.	ND	6.0	1476.	1.25	14.9	482.	ND	NC	126.	NC	NC
21.90	553.	ND	6.4	1582.	1.21	12.5	431.	ND	NC	127.	NC	NC
22.05	520.	ND	6.6	1616.	1.21	12.5	441.	ND	NC	120.	NC	NC
22.20	540.	ND	6.3	1560.	1.17	10.1	344.	ND	NC	124.	NC	NC
22.35	553.	ND	6.4	1577.	1.22	12.8	442.	ND	NC	127.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	530.	ND	6.5	1593.	1.25	14.7	512.	ND	NC	122.	NC	NC
22.65	527.	ND	6.5	1591.	1.21	12.5	435.	ND	NC	121.	NC	NC
22.80	552.	ND	6.4	1581.	1.18	10.4	360.	ND	NC	127.	NC	NC
22.95	521.	ND	6.5	1606.	1.21	12.6	443.	ND	NC	126.	NC	NC
23.10	525.	ND	6.2	1526.	1.23	13.7	456.	ND	NC	121.	NC	NC
23.25	544.	ND	6.0	1470.	1.21	12.2	391.	ND	NC	125.	NC	NC
23.40	554.	ND	6.4	1563.	1.17	10.3	346.	ND	NC	127.	NC	NC
23.55	541.	ND	6.6	1613.	1.19	11.0	387.	ND	NC	124.	NC	NC
23.70	527.	ND	6.2	1512.	1.20	12.0	398.	ND	NC	121.	NC	NC
23.85	548.	ND	6.1	1506.	1.24	14.0	461.	ND	NC	126.	NC	NC
24.00	575.	ND	6.1	1506.	1.78	45.6	1501.	ND	NC	132.	NC	NC
24.15	538.	ND	6.5	1594.	1.52	30.3	1057.	ND	NC	124.	NC	NC
24.30	528.	ND	6.3	1540.	1.32	18.8	633.	ND	NC	121.	NC	NC
24.45	565.	ND	6.2	1528.	1.28	16.3	545.	ND	NC	130.	NC	NC
24.60	542.	ND	5.7	1404.	1.30	17.9	550.	ND	NC	125.	NC	NC
24.75	515.	ND	5.4	1331.	1.26	15.3	444.	ND	NC	118.	NC	NC
24.90	543.	NC	5.8	1436.	1.22	12.9	406.	ND	NC	125.	NC	NC
25.05	576.	ND	6.4	1562.	1.22	12.9	440.	ND	NC	132.	NC	NC
25.20	514.	ND	5.8	1434.	1.19	11.2	352.	ND	NC	118.	NC	NC
25.35	518.	ND	5.6	1384.	1.19	11.4	344.	ND	NC	119.	NC	NC
25.50	594.	ND	6.1	1503.	1.22	13.2	434.	ND	NC	137.	NC	NC
25.65	523.	ND	6.3	1552.	1.21	12.6	426.	ND	NC	120.	NC	NC
25.80	523.	ND	6.1	1501.	1.19	11.4	374.	ND	NC	120.	NC	NC
25.95	545.	ND	6.4	1564.	1.23	13.4	460.	ND	NC	125.	NC	NC
26.10	551.	ND	6.6	1628.	1.22	12.7	451.	ND	NC	127.	NC	NC
26.25	523.	ND	6.3	1555.	1.15	8.6	291.	ND	NC	120.	NC	NC
26.40	552.	ND	6.3	1548.	1.13	7.9	267.	ND	NC	127.	NC	NC
26.55	571.	ND	6.5	1605.	1.15	8.9	310.	ND	NC	131.	NC	NC
26.70	540.	ND	6.7	1641.	1.18	10.7	382.	ND	NC	124.	NC	NC
26.85	541.	ND	6.8	1684.	1.18	10.3	379.	ND	NC	124.	NC	NC
27.00	576.	ND	6.8	1678.	1.14	8.5	311.	ND	NC	133.	NC	NC
27.15	545.	ND	7.0	1722.	1.13	7.4	277.	ND	NC	125.	NC	NC
27.30	534.	ND	7.1	1742.	1.08	4.6	176.	ND	NC	123.	NC	NC
27.45	554.	ND	7.1	1749.	1.09	5.4	207.	ND	NC	127.	NC	NC
27.60	578.	ND	7.3	1806.	1.10	6.0	235.	ND	NC	133.	NC	NC
27.75	540.	ND	7.3	1801.	1.09	5.1	200.	ND	NC	124.	NC	NC
27.90	536.	ND	7.2	1781.	1.10	6.1	238.	ND	NC	123.	NC	NC
28.05	565.	ND	7.3	1805.	1.10	6.1	239.	ND	NC	130.	NC	NC
28.20	538.	ND	7.7	1883.	1.07	4.1	169.	ND	NC	124.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	533.	ND	7.6	1860.	1.06	3.4	137.	ND	NC	123.	NC	NC
28.50	560.	ND	7.6	1874.	1.06	3.6	147.	ND	NC	129.	NC	NC
28.65	561.	ND	7.7	1893.	1.05	3.2	134.	ND	NC	129.	NC	NC
28.80	535.	ND	7.7	1898.	1.07	3.9	160.	ND	NC	123.	NC	NC
28.95	552.	ND	7.6	1871.	1.08	4.6	189.	ND	NC	127.	NC	NC
29.10	564.	ND	7.5	1857.	1.07	4.2	171.	ND	NC	130.	NC	NC
29.25	557.	ND	7.9	1942.	1.05	3.1	132.	ND	NC	128.	NC	NC
29.40	544.	ND	7.9	1933.	1.05	3.0	125.	ND	NC	125.	NC	NC
29.55	561.	ND	7.6	1877.	1.05	2.8	116.	ND	NC	129.	NC	NC
29.70	570.	ND	7.9	1944.	1.04	2.6	112.	ND	NC	131.	NC	NC
29.85	551.	ND	7.9	1944.	1.05	3.1	131.	ND	NC	127.	NC	NC
30.00	544.	ND	7.8	1920.	1.07	4.2	176.	ND	NC	125.	NC	NC
30.15	560.	ND	7.9	1953.	1.07	4.1	176.	ND	NC	129.	NC	NC
30.30	574.	ND	8.0	1978.	1.04	2.5	106.	ND	NC	132.	NC	NC
30.45	534.	ND	7.9	1947.	1.06	3.5	148.	ND	NC	123.	NC	NC
30.60	555.	ND	8.0	1978.	1.05	3.1	133.	ND	NC	128.	NC	NC
30.75	585.	ND	8.4	2068.	1.05	3.2	144.	ND	NC	134.	NC	NC
30.90	544.	ND	8.5	2094.	1.08	4.9	223.	ND	NC	125.	NC	NC
31.05	539.	ND	8.1	1995.	1.09	5.2	226.	ND	NC	124.	NC	NC
31.20	589.	ND	8.4	2078.	1.07	3.8	174.	ND	NC	135.	NC	NC
31.35	558.	ND	8.5	2081.	1.05	3.1	140.	ND	NC	128.	NC	NC
31.50	542.	ND	8.3	2038.	1.05	3.2	143.	ND	NC	125.	NC	NC
31.65	567.	ND	8.3	2051.	1.05	2.8	125.	ND	NC	130.	NC	NC
31.80	551.	ND	8.4	2068.	1.06	3.8	172.	ND	NC	127.	NC	NC
31.95	531.	ND	8.3	2053.	1.09	5.3	239.	ND	NC	122.	NC	NC
32.10	542.	ND	8.3	2031.	1.09	5.4	239.	ND	NC	125.	NC	NC
32.25	584.	ND	8.3	2044.	1.07	3.9	172.	ND	NC	134.	NC	NC
32.40	554.	ND	8.3	2035.	1.06	3.7	166.	ND	NC	127.	NC	NC
32.55	549.	ND	8.1	1989.	1.07	4.0	174.	ND	NC	126.	NC	NC
32.70	564.	ND	8.3	2053.	1.06	3.7	164.	ND	NC	130.	NC	NC
32.85	561.	ND	8.2	2014.	1.05	3.0	133.	ND	NC	129.	NC	NC
33.00	493.	ND	7.8	1920.	1.07	4.0	168.	ND	NC	113.	NC	NC
33.15	509.	ND	7.9	1937.	1.05	3.0	129.	ND	NC	117.	NC	NC
33.30	512.	ND	8.0	1960.	1.05	3.2	135.	ND	NC	118.	NC	NC
33.45	498.	ND	8.1	1988.	1.05	2.9	125.	ND	NC	115.	NC	NC
33.60	499.	ND	8.0	1966.	1.05	2.7	118.	ND	NC	115.	NC	NC
33.75	510.	ND	7.9	1939.	1.04	2.5	106.	ND	NC	117.	NC	NC
33.90	475.	ND	8.1	1988.	1.05	2.9	128.	ND	NC	109.	NC	NC
34.05	442.	ND	7.5	1850.	1.07	4.0	161.	ND	NC	102.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	462.	ND	7.5	1837.	1.06	3.7	148.	ND	NC	106.	NC	NC
34.35	464.	ND	7.5	1833.	1.04	2.2	89.	ND	NC	107.	NC	NC
34.50	448.	ND	7.5	1833.	1.03	1.8	70.	ND	NC	103.	NC	NC
34.65	446.	ND	7.4	1823.	1.04	2.6	103.	ND	NC	102.	NC	NC
34.80	475.	ND	7.3	1798.	1.05	2.9	114.	ND	NC	109.	NC	NC
34.95	538.	ND	7.9	1941.	1.09	5.3	224.	ND	NC	124.	NC	NC
35.10	554.	ND	8.3	2045.	1.09	5.2	232.	ND	NC	127.	NC	NC
35.25	596.	ND	8.7	2141.	1.06	3.4	159.	ND	NC	137.	NC	NC
35.40	648.	ND	9.1	2234.	1.04	2.5	122.	ND	NC	149.	NC	NC
35.55	648.	ND	9.4	2303.	1.04	2.6	131.	ND	NC	149.	NC	NC
35.70	640.	ND	9.2	2263.	1.04	2.5	123.	ND	NC	147.	NC	NC
35.85	659.	ND	9.4	2315.	1.04	2.4	120.	ND	NC	151.	NC	NC
36.00	673.	ND	9.3	2297.	1.07	4.2	211.	ND	NC	155.	NC	NC
36.15	637.	ND	9.1	2242.	1.07	4.2	208.	ND	NC	146.	NC	NC
36.30	654.	ND	9.1	2235.	1.05	2.9	140.	ND	NC	151.	NC	NC
36.45	664.	ND	9.3	2289.	1.03	1.9	94.	ND	NC	153.	NC	NC
36.60	641.	ND	9.4	2301.	1.03	1.9	94.	ND	NC	148.	NC	NC
36.75	635.	ND	8.7	2133.	1.03	1.9	88.	ND	NC	146.	NC	NC
36.90	674.	ND	8.5	2084.	1.09	5.2	238.	ND	NC	155.	NC	NC
37.05	651.	ND	8.3	2042.	1.14	8.3	371.	ND	NC	150.	NC	NC
37.20	638.	ND	8.0	1979.	1.13	7.4	320.	ND	NC	147.	NC	NC
37.35	633.	ND	8.0	1967.	1.10	5.9	255.	ND	NC	146.	NC	NC
37.50	661.	ND	8.5	2091.	1.08	4.5	205.	ND	NC	152.	NC	NC
37.65	649.	ND	8.5	2087.	1.06	3.8	173.	ND	NC	149.	NC	NC
37.80	654.	ND	8.5	2080.	1.06	3.8	173.	ND	NC	150.	NC	NC
37.95	660.	ND	8.6	2111.	1.08	4.8	221.	ND	NC	152.	NC	NC
38.10	641.	ND	8.7	2131.	1.09	5.2	244.	ND	NC	148.	NC	NC
38.25	634.	ND	8.8	2165.	1.06	3.7	176.	ND	NC	146.	NC	NC
38.40	658.	ND	8.6	2106.	1.05	2.7	126.	ND	NC	151.	NC	NC
38.55	648.	ND	8.7	2149.	1.05	3.2	150.	ND	NC	149.	NC	NC
38.70	639.	ND	8.8	2158.	1.06	3.6	170.	ND	NC	147.	NC	NC
38.85	644.	ND	8.8	2162.	1.06	3.4	162.	ND	NC	148.	NC	NC
39.00	645.	ND	8.9	2190.	1.08	4.7	224.	ND	NC	148.	NC	NC
39.15	646.	ND	9.0	2217.	1.07	4.1	197.	ND	NC	149.	NC	NC
39.30	656.	ND	8.8	2165.	1.05	3.2	152.	ND	NC	151.	NC	NC
39.45	662.	ND	8.7	2150.	1.05	2.8	130.	ND	NC	152.	NC	NC
39.60	658.	ND	9.2	2257.	1.05	2.7	131.	ND	NC	151.	NC	NC
39.75	648.	ND	9.1	2232.	1.04	2.6	126.	ND	NC	149.	NC	NC
39.90	646.	ND	8.9	2183.	1.04	2.2	106.	ND	NC	149.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	658.	ND	8.9	2188.	1.07	4.2	200.	ND	NC	151.	NC	NC
40.20	664.	ND	9.1	2238.	1.08	4.7	228.	ND	NC	153.	NC	NC
40.35	645.	ND	9.1	2236.	1.04	2.6	129.	ND	NC	148.	NC	NC
40.50	656.	ND	9.0	2206.	1.03	2.0	97.	ND	NC	151.	NC	NC
40.65	671.	ND	9.2	2256.	1.04	2.5	121.	ND	NC	154.	NC	NC
40.80	638.	ND	9.1	2236.	1.05	2.9	141.	ND	NC	147.	NC	NC
40.95	643.	ND	8.8	2156.	1.05	2.9	136.	ND	NC	148.	NC	NC
41.10	665.	ND	8.9	2180.	1.08	4.9	233.	ND	NC	153.	NC	NC
41.25	664.	ND	8.9	2196.	1.05	3.1	149.	ND	NC	153.	NC	NC
41.40	639.	ND	9.0	2204.	1.05	2.8	137.	ND	NC	147.	NC	NC
41.55	661.	ND	8.9	2179.	1.04	2.5	119.	ND	NC	152.	NC	NC
41.70	659.	ND	9.1	2249.	1.04	2.5	123.	ND	NC	152.	NC	NC
41.85	621.	ND	8.9	2198.	1.04	2.4	116.	ND	NC	143.	NC	NC
42.00	630.	ND	9.0	2214.	1.07	4.4	211.	ND	NC	145.	NC	NC
42.15	652.	ND	9.0	2221.	1.08	4.8	233.	ND	NC	150.	NC	NC
42.30	627.	ND	8.9	2182.	1.05	3.1	149.	ND	NC	144.	NC	NC
42.45	619.	ND	8.6	2122.	1.05	2.8	131.	ND	NC	142.	NC	NC
42.60	631.	ND	8.8	2155.	1.05	2.7	127.	ND	NC	145.	NC	NC
42.75	645.	ND	8.9	2182.	1.05	2.9	138.	ND	NC	148.	NC	NC
42.90	625.	ND	9.0	2203.	1.06	3.4	162.	ND	NC	144.	NC	NC
43.05	628.	ND	8.3	2031.	1.09	5.2	229.	ND	NC	144.	NC	NC
43.20	647.	ND	8.1	1998.	1.11	6.3	275.	ND	NC	149.	NC	NC
43.35	630.	ND	8.4	2054.	1.10	5.9	267.	ND	NC	145.	NC	NC
43.50	629.	ND	8.5	2087.	1.08	4.5	205.	ND	NC	145.	NC	NC
43.65	662.	ND	8.4	2072.	1.07	4.3	194.	ND	NC	152.	NC	NC
43.80	649.	ND	8.6	2114.	1.07	4.0	185.	ND	NC	149.	NC	NC
43.95	631.	ND	8.5	2095.	1.10	5.6	257.	ND	NC	145.	NC	NC
44.10	632.	ND	8.5	2084.	1.13	7.5	344.	ND	NC	145.	NC	NC
44.25	659.	ND	8.5	2084.	1.10	6.1	277.	ND	NC	152.	NC	NC
44.40	628.	ND	8.6	2122.	1.06	3.4	157.	ND	NC	145.	NC	NC
44.55	628.	ND	8.6	2122.	1.06	3.4	159.	ND	NC	144.	NC	NC
44.70	653.	ND	8.6	2122.	1.06	3.4	158.	ND	NC	150.	NC	NC
44.85	640.	ND	8.7	2151.	1.06	3.6	171.	ND	NC	147.	NC	NC
45.00	635.	ND	8.9	2183.	1.07	4.3	206.	ND	NC	146.	NC	NC
45.15	650.	ND	8.7	2151.	1.07	4.4	206.	ND	NC	149.	NC	NC
45.30	648.	ND	8.8	2153.	1.07	3.8	180.	ND	NC	149.	NC	NC
45.45	643.	ND	9.0	2225.	1.06	3.3	161.	ND	NC	148.	NC	NC
45.60	630.	ND	8.7	2141.	1.07	4.1	190.	ND	NC	145.	NC	NC
45.75	663.	ND	8.7	2148.	1.05	2.7	127.	ND	NC	152.	NC	NC
45.90	709.	ND	8.9	2196.	1.04	2.2	108.	ND	NC	163.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 6 78
RUN NUMBER- 19
SEGMENT NUMBER- 3
WATER DEPTH- 33 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	645.	ND	9.0	2210.	1.06	3.5	167.	ND	NC	148.	NC	NC
0.15	637.	ND	8.8	2159.	1.07	4.0	189.	ND	NC	147.	NC	NC
0.30	654.	ND	8.6	2121.	1.05	3.1	146.	ND	NC	150.	NC	NC
0.45	710.	ND	9.1	2232.	1.04	2.4	117.	ND	NC	163.	NC	NC
0.60	701.	ND	9.2	2263.	1.09	5.4	266.	ND	NC	161.	NC	NC
0.75	729.	ND	9.3	2297.	1.15	9.0	451.	ND	NC	168.	NC	NC
0.90	788.	ND	9.8	2418.	1.08	4.5	240.	ND	NC	181.	NC	NC
1.05	755.	ND	10.1	2479.	1.07	3.9	213.	ND	NC	174.	NC	NC
1.20	751.	ND	9.9	2430.	1.08	4.9	258.	ND	NC	173.	NC	NC
1.35	760.	ND	10.1	2475.	1.06	3.7	201.	ND	NC	175.	NC	NC
1.50	776.	ND	10.1	2478.	1.05	3.1	166.	ND	NC	178.	NC	NC
1.65	735.	ND	9.9	2436.	1.24	14.4	765.	ND	NC	169.	NC	NC
1.80	747.	ND	9.9	2434.	1.12	7.3	387.	ND	NC	172.	NC	NC
1.95	786.	ND	10.0	2449.	1.07	4.3	230.	ND	NC	181.	NC	NC
2.10	742.	ND	10.0	2450.	1.06	3.3	174.	ND	NC	171.	NC	NC
2.25	744.	ND	9.9	2445.	1.07	4.2	225.	ND	NC	171.	NC	NC
2.40	778.	ND	9.7	2377.	1.11	6.6	343.	ND	NC	179.	NC	NC
2.55	757.	ND	9.8	2418.	1.14	8.2	434.	ND	NC	174.	NC	NC
2.70	747.	ND	9.4	2304.	1.31	18.3	919.	ND	NC	172.	NC	NC
2.85	762.	ND	9.0	2219.	1.18	10.4	503.	ND	NC	175.	NC	NC
3.00	760.	ND	8.9	2189.	1.12	7.0	333.	ND	NC	175.	NC	NC
3.15	749.	ND	9.0	2224.	1.10	5.6	272.	ND	NC	172.	NC	NC
3.30	758.	ND	9.3	2282.	1.09	5.1	255.	ND	NC	174.	NC	NC
3.45	763.	ND	9.0	2207.	1.09	5.4	262.	ND	NC	176.	NC	NC
3.60	755.	ND	9.1	2247.	1.10	5.8	287.	ND	NC	174.	NC	NC
3.75	739.	ND	9.1	2239.	1.09	5.3	259.	ND	NC	170.	NC	NC
3.90	769.	ND	9.3	2289.	1.08	4.8	238.	ND	NC	177.	NC	NC
4.05	759.	ND	9.6	2351.	1.08	4.8	244.	ND	NC	174.	NC	NC
4.20	752.	ND	9.4	2312.	1.07	4.1	209.	ND	NC	173.	NC	NC
4.35	756.	ND	9.3	2275.	1.06	3.4	170.	ND	NC	174.	NC	NC
4.50	769.	ND	9.6	2358.	1.06	3.7	191.	ND	NC	175.	NC	NC
4.65	754.	ND	9.9	2427.	1.11	6.6	348.	ND	NC	173.	NC	NC
4.80	747.	ND	10.0	2457.	1.14	8.0	428.	ND	NC	172.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	763.	ND	9.5	2334.	1.09	5.5	281.	ND	NC	176.	NC	NC
5.10	743.	ND	9.6	2367.	1.06	3.6	187.	ND	NC	171.	NC	NC
5.25	756.	ND	9.5	2347.	1.06	3.4	174.	ND	NC	174.	NC	NC
5.40	746.	ND	9.5	2339.	1.06	3.6	184.	ND	NC	172.	NC	NC
5.55	760.	ND	9.7	2377.	1.08	4.7	245.	ND	NC	175.	NC	NC
5.70	756.	ND	9.8	2417.	1.21	12.5	659.	ND	NC	174.	NC	NC
5.85	742.	ND	9.6	2370.	1.11	6.3	326.	ND	NC	171.	NC	NC
6.00	753.	ND	9.4	2301.	1.07	4.4	221.	ND	NC	173.	NC	NC
6.15	768.	ND	9.6	2350.	1.06	3.5	178.	ND	NC	177.	NC	NC
6.30	745.	ND	10.0	2451.	1.06	3.4	181.	ND	NC	171.	NC	NC
6.45	754.	ND	9.7	2395.	1.07	3.9	204.	ND	NC	173.	NC	NC
6.60	773.	ND	10.1	2476.	1.12	7.1	386.	ND	NC	178.	NC	NC
6.75	759.	ND	9.7	2395.	1.22	13.2	688.	ND	NC	175.	NC	NC
6.90	753.	ND	9.7	2381.	1.09	5.2	269.	ND	NC	173.	NC	NC
7.05	765.	ND	9.6	2373.	1.06	3.5	181.	ND	NC	176.	NC	NC
7.20	775.	ND	9.7	2388.	1.12	7.0	364.	ND	NC	179.	NC	NC
7.35	753.	ND	10.1	2479.	1.10	6.2	334.	ND	NC	173.	NC	NC
7.50	744.	ND	9.8	2412.	1.08	5.0	261.	ND	NC	171.	NC	NC
7.65	774.	ND	9.9	2439.	1.11	6.2	329.	ND	NC	178.	NC	NC
7.80	763.	ND	9.9	2440.	1.22	12.8	683.	ND	NC	175.	NC	NC
7.95	741.	ND	9.4	2314.	1.10	6.1	306.	ND	NC	170.	NC	NC
8.10	734.	ND	9.1	2248.	1.08	4.5	222.	ND	NC	169.	NC	NC
8.25	763.	ND	9.0	2204.	1.09	5.5	267.	ND	NC	176.	NC	NC
8.40	731.	ND	9.1	2230.	1.15	8.6	418.	ND	NC	168.	NC	NC
8.55	745.	ND	9.0	2208.	1.14	8.5	411.	ND	NC	171.	NC	NC
8.70	797.	ND	8.8	2164.	1.14	8.4	397.	ND	NC	183.	NC	NC
8.85	789.	ND	8.8	2173.	1.15	8.9	421.	ND	NC	181.	NC	NC
9.00	794.	ND	9.1	2242.	1.13	7.8	381.	ND	NC	183.	NC	NC
9.15	834.	ND	9.3	2283.	1.12	7.2	360.	ND	NC	192.	NC	NC
9.30	816.	ND	9.7	2374.	1.13	7.4	384.	ND	NC	189.	NC	NC
9.45	812.	ND	9.5	2345.	1.12	6.9	351.	ND	NC	187.	NC	NC
9.60	809.	ND	9.7	2395.	1.27	15.9	830.	ND	NC	186.	NC	NC
9.75	820.	ND	9.9	2444.	1.13	7.5	400.	ND	NC	189.	NC	NC
9.90	817.	ND	10.1	2493.	1.11	6.4	348.	ND	NC	188.	NC	NC
10.05	822.	ND	10.3	2530.	1.09	5.3	295.	ND	NC	189.	NC	NC
10.20	822.	ND	9.7	2388.	1.12	7.0	363.	ND	NC	189.	NC	NC
10.35	821.	ND	10.3	2528.	1.16	9.5	524.	ND	NC	189.	NC	NC
10.50	814.	ND	10.2	2509.	1.14	8.3	457.	ND	NC	187.	NC	NC
10.65	816.	ND	10.3	2529.	1.18	10.5	580.	ND	NC	198.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	838.	ND	10.7	2622.	1.26	15.2	873.	ND	NC	193.	NC	NC
10.95	839.	ND	10.4	2550.	1.13	7.8	437.	ND	NC	193.	NC	NC
11.10	822.	ND	10.1	2490.	1.06	3.6	194.	ND	NC	189.	NC	NC
11.25	823.	ND	10.1	2491.	1.04	2.2	120.	ND	NC	189.	NC	NC
11.40	845.	ND	10.4	2546.	1.03	1.6	89.	ND	NC	194.	NC	NC
11.55	814.	ND	10.6	2615.	1.05	2.8	162.	ND	NC	187.	NC	NC
11.70	821.	ND	10.6	2595.	1.10	5.6	318.	ND	NC	189.	NC	NC
11.85	842.	ND	10.1	2473.	1.11	6.3	342.	ND	NC	194.	NC	NC
12.00	826.	ND	9.6	2372.	1.10	6.1	316.	ND	NC	190.	NC	NC
12.15	812.	ND	9.9	2443.	1.10	6.1	325.	ND	NC	187.	NC	NC
12.30	827.	ND	10.1	2482.	1.18	10.7	582.	ND	NC	190.	NC	NC
12.45	845.	ND	10.1	2483.	1.09	5.1	278.	ND	NC	194.	NC	NC
12.60	811.	ND	9.7	2375.	1.09	5.4	282.	ND	NC	187.	NC	NC
12.75	808.	ND	9.5	2328.	1.11	6.4	324.	ND	NC	186.	NC	NC
12.90	848.	ND	9.9	2427.	1.13	7.4	395.	ND	NC	195.	NC	NC
13.05	829.	ND	10.0	2448.	1.13	7.5	403.	ND	NC	191.	NC	NC
13.20	811.	ND	9.4	2308.	1.14	8.0	405.	ND	NC	187.	NC	NC
13.35	839.	ND	9.2	2275.	1.14	8.0	398.	ND	NC	193.	NC	NC
13.50	828.	ND	9.3	2286.	1.11	6.4	320.	ND	NC	190.	NC	NC
13.65	815.	ND	9.6	2361.	1.13	7.6	390.	ND	NC	188.	NC	NC
13.80	812.	ND	9.4	2304.	1.13	7.4	372.	ND	NC	187.	NC	NC
13.95	834.	ND	9.3	2281.	1.13	7.8	388.	ND	NC	192.	NC	NC
14.10	816.	ND	9.0	2214.	1.15	8.8	425.	ND	NC	188.	NC	NC
14.25	814.	ND	8.8	2153.	1.15	8.8	413.	ND	NC	187.	NC	NC
14.40	826.	ND	9.0	2206.	1.14	8.4	405.	ND	NC	190.	NC	NC
14.55	819.	ND	9.2	2273.	1.14	8.4	419.	ND	NC	188.	NC	NC
14.70	822.	ND	9.0	2218.	1.15	8.9	430.	ND	NC	189.	NC	NC
14.85	829.	ND	8.8	2167.	1.15	8.9	420.	ND	NC	191.	NC	NC
15.00	826.	ND	9.1	2239.	1.12	7.3	357.	ND	NC	190.	NC	NC
15.15	826.	ND	9.9	2425.	1.11	6.3	334.	ND	NC	190.	NC	NC
15.30	811.	ND	9.9	2439.	1.09	5.2	276.	ND	NC	187.	NC	NC
15.45	828.	ND	9.4	2320.	1.12	7.2	367.	ND	NC	191.	NC	NC
15.60	809.	ND	9.9	2435.	1.16	9.4	502.	ND	NC	186.	NC	NC
15.75	816.	ND	10.2	2510.	1.14	8.2	452.	ND	NC	188.	NC	NC
15.90	780.	ND	10.4	2567.	1.12	6.9	387.	ND	NC	180.	NC	NC
16.05	814.	ND	10.0	2467.	1.09	5.3	286.	ND	NC	187.	NC	NC
16.20	825.	ND	10.2	2517.	1.10	5.7	313.	ND	NC	190.	NC	NC
16.35	816.	ND	10.0	2469.	1.13	7.7	416.	ND	NC	186.	NC	NC
16.50	835.	ND	10.1	2486.	1.14	8.4	458.	ND	NC	192.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	835.	ND	10.6	2597.	1.17	10.3	582.	ND	NC	192.	NC	NC
16.80	817.	ND	10.6	2614.	1.24	14.4	822.	ND	NC	188.	NC	NC
16.95	798.	ND	10.2	2514.	1.26	15.5	854.	ND	NC	184.	NC	NC
17.10	821.	ND	10.3	2534.	1.10	5.9	327.	ND	NC	189.	NC	NC
17.25	826.	ND	10.5	2593.	1.06	3.8	216.	ND	NC	190.	NC	NC
17.40	799.	ND	10.8	2645.	1.04	2.3	131.	ND	NC	184.	NC	NC
17.55	840.	ND	10.7	2621.	1.03	1.9	110.	ND	NC	193.	NC	NC
17.70	843.	ND	10.3	2539.	1.12	7.0	390.	ND	NC	194.	NC	NC
17.85	812.	ND	10.1	2475.	1.07	3.9	212.	ND	NC	187.	NC	NC
18.00	806.	ND	10.4	2565.	1.06	3.7	210.	ND	NC	185.	NC	NC
18.15	847.	ND	10.7	2629.	1.05	2.7	154.	ND	NC	195.	NC	NC
18.30	822.	ND	10.7	2635.	1.05	2.7	156.	ND	NC	189.	NC	NC
18.45	821.	ND	9.9	2427.	1.06	3.5	186.	ND	NC	189.	NC	NC
18.60	851.	ND	9.5	2330.	1.07	4.1	207.	ND	NC	196.	NC	NC
18.75	821.	ND	9.3	2276.	1.10	5.7	286.	ND	NC	189.	NC	NC
18.90	806.	ND	9.1	2233.	1.11	6.7	327.	ND	NC	185.	NC	NC
19.05	814.	ND	8.7	2151.	1.18	10.5	492.	ND	NC	187.	NC	NC
19.20	833.	ND	8.5	2102.	1.21	12.5	572.	ND	NC	192.	NC	NC
19.35	805.	ND	8.6	2107.	1.14	8.4	389.	ND	NC	185.	NC	NC
19.50	803.	ND	8.6	2109.	1.14	8.1	374.	ND	NC	185.	NC	NC
19.65	834.	ND	8.3	2052.	1.14	8.4	378.	ND	NC	192.	NC	NC
19.80	814.	ND	8.5	2094.	1.26	15.4	702.	ND	NC	187.	NC	NC
19.95	812.	ND	8.4	2064.	1.30	17.7	800.	ND	NC	187.	NC	NC
20.10	832.	ND	8.4	2069.	1.29	16.8	759.	ND	NC	191.	NC	NC
20.25	829.	ND	8.5	2091.	1.26	15.2	695.	ND	NC	191.	NC	NC
20.40	814.	ND	8.3	2053.	1.24	14.0	626.	ND	NC	187.	NC	NC
20.55	827.	ND	8.1	1983.	1.25	14.7	636.	ND	NC	190.	NC	NC
20.70	827.	ND	8.4	2071.	1.19	11.3	513.	ND	NC	190.	NC	NC
20.85	819.	ND	9.0	2225.	1.17	10.1	491.	ND	NC	188.	NC	NC
21.00	819.	ND	9.1	2227.	1.24	14.0	663.	ND	NC	188.	NC	NC
21.15	821.	ND	9.4	2303.	1.25	14.9	748.	ND	NC	189.	NC	NC
21.30	819.	ND	9.7	2382.	1.11	6.4	333.	ND	NC	188.	NC	NC
21.45	819.	ND	9.8	2420.	1.11	6.7	352.	ND	NC	188.	NC	NC
21.60	816.	ND	9.6	2355.	1.14	8.1	414.	ND	NC	188.	NC	NC
21.75	827.	ND	10.0	2461.	1.14	8.3	447.	ND	NC	190.	NC	NC
21.90	814.	ND	10.3	2539.	1.24	14.0	776.	ND	NC	187.	NC	NC
22.05	818.	ND	10.1	2474.	1.22	12.7	688.	ND	NC	188.	NC	NC
22.20	837.	ND	10.1	2478.	1.15	9.0	486.	ND	NC	192.	NC	NC
22.35	838.	ND	10.4	2557.	1.08	4.7	265.	ND	NC	193.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	824.	ND	10.5	2594.	1.08	4.9	276.	ND	NC	190.	NC	NC
22.65	818.	ND	10.4	2556.	1.07	4.1	226.	ND	NC	188.	NC	NC
22.80	843.	ND	10.4	2567.	1.07	4.4	244.	ND	NC	194.	NC	NC
22.95	829.	ND	10.5	2560.	1.16	9.5	533.	ND	NC	191.	NC	NC
23.10	810.	ND	10.4	2558.	1.17	9.8	545.	ND	NC	186.	NC	NC
23.25	849.	ND	10.5	2575.	1.07	4.4	245.	ND	NC	195.	NC	NC
23.40	829.	ND	10.6	2616.	1.05	2.9	168.	ND	NC	191.	NC	NC
23.55	801.	ND	10.5	2583.	1.09	5.4	307.	ND	NC	184.	NC	NC
23.70	793.	ND	10.2	2517.	1.08	4.6	255.	ND	NC	182.	NC	NC
23.85	837.	ND	9.8	2413.	1.07	4.4	232.	ND	NC	192.	NC	NC
24.00	802.	ND	9.7	2375.	1.11	6.3	327.	ND	NC	184.	NC	NC
24.15	791.	ND	10.0	2459.	1.13	7.5	401.	ND	NC	182.	NC	NC
24.30	816.	ND	9.5	2345.	1.11	6.5	334.	ND	NC	188.	NC	NC
24.45	815.	ND	9.2	2254.	1.16	9.4	463.	ND	NC	187.	NC	NC
24.60	797.	ND	9.0	2219.	1.23	13.6	669.	ND	NC	183.	NC	NC
24.75	803.	ND	8.9	2198.	1.22	12.8	615.	ND	NC	185.	NC	NC
24.90	828.	ND	9.0	2224.	1.21	12.2	593.	ND	NC	191.	NC	NC
25.05	802.	ND	9.1	2233.	1.33	19.4	948.	ND	NC	184.	NC	NC
25.20	796.	ND	8.8	2155.	1.24	14.4	678.	ND	NC	183.	NC	NC
25.35	833.	ND	8.8	2154.	1.19	11.4	535.	ND	NC	192.	NC	NC
25.50	833.	ND	8.9	2192.	1.17	10.0	479.	ND	NC	192.	NC	NC
25.65	848.	ND	9.1	2226.	1.14	7.9	387.	ND	NC	195.	NC	NC
25.80	885.	ND	9.4	2303.	1.23	13.6	684.	ND	NC	204.	NC	NC
25.95	915.	ND	9.7	2387.	1.25	14.8	772.	ND	NC	211.	NC	NC
26.10	918.	ND	9.5	2347.	1.30	17.6	903.	ND	NC	211.	NC	NC
26.25	920.	ND	9.6	2372.	1.22	12.9	667.	ND	NC	212.	NC	NC
26.40	920.	ND	9.9	2429.	1.13	7.9	417.	ND	NC	212.	NC	NC
26.55	924.	ND	10.2	2499.	1.12	7.2	390.	ND	NC	213.	NC	NC
26.70	914.	ND	10.0	2459.	1.13	7.8	421.	ND	NC	210.	NC	NC
26.85	912.	ND	9.8	2412.	1.16	9.4	497.	ND	NC	210.	NC	NC
27.00	920.	ND	10.5	2577.	1.15	8.9	502.	ND	NC	211.	NC	NC
27.15	920.	ND	10.2	2520.	1.08	4.8	263.	ND	NC	212.	NC	NC
27.30	913.	ND	10.6	2602.	1.07	4.4	247.	ND	NC	210.	NC	NC
27.45	922.	ND	10.5	2589.	1.05	2.9	161.	ND	NC	212.	NC	NC
27.60	932.	ND	10.5	2587.	1.08	4.7	265.	ND	NC	214.	NC	NC
27.75	888.	ND	10.6	2594.	1.04	2.4	137.	ND	NC	204.	NC	NC
27.90	907.	ND	10.9	2671.	1.04	2.1	124.	ND	NC	209.	NC	NC
28.05	956.	ND	11.3	2772.	1.03	1.8	107.	ND	NC	220.	NC	NC
28.20	926.	ND	11.9	2923.	1.03	1.5	95.	ND	NC	213.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	901.	ND	11.1	2729.	1.02	1.2	73.	ND	NC	207.	NC	NC
28.50	953.	ND	11.0	2712.	1.02	1.1	63.	ND	NC	219.	NC	NC
28.65	906.	ND	11.7	2874.	1.02	1.3	84.	ND	NC	208.	NC	NC
28.80	897.	ND	10.7	2638.	1.02	1.5	84.	ND	NC	206.	NC	NC
28.95	924.	ND	11.0	2696.	1.02	1.1	63.	ND	NC	212.	NC	NC
29.10	946.	ND	11.3	2785.	1.03	1.8	108.	ND	NC	215.	NC	NC
29.25	916.	ND	11.5	2816.	1.01	0.6	37.	ND	NC	211.	NC	NC
29.40	890.	ND	11.4	2802.	1.01	0.5	31.	ND	NC	205.	NC	NC
29.55	932.	ND	11.6	2863.	1.01	0.7	45.	ND	NC	214.	NC	NC
29.70	918.	ND	11.8	2913.	1.02	1.1	72.	ND	NC	211.	NC	NC
29.85	899.	ND	10.9	2691.	1.02	1.4	84.	ND	NC	207.	NC	NC
30.00	940.	ND	10.9	2692.	1.05	2.7	158.	ND	NC	216.	NC	NC
30.15	924.	ND	11.1	2734.	1.06	3.5	211.	ND	NC	213.	NC	NC
30.30	903.	ND	10.9	2693.	1.05	3.1	182.	ND	NC	208.	NC	NC
30.45	894.	ND	10.2	2515.	1.04	2.5	135.	ND	NC	206.	NC	NC
30.60	928.	ND	10.7	2625.	1.02	1.3	75.	ND	NC	214.	NC	NC
30.75	921.	ND	11.0	2698.	1.07	4.0	235.	ND	NC	212.	NC	NC
30.90	905.	ND	10.8	2659.	1.06	3.8	222.	ND	NC	208.	NC	NC
31.05	908.	ND	10.3	2538.	1.08	4.7	261.	ND	NC	209.	NC	NC
31.20	921.	ND	10.8	2648.	1.18	10.6	611.	ND	NC	212.	NC	NC
31.35	916.	ND	11.2	2760.	1.05	2.7	160.	ND	NC	211.	NC	NC
31.50	915.	ND	10.5	2573.	1.03	1.6	89.	ND	NC	210.	NC	NC
31.65	925.	ND	10.8	2667.	1.02	1.0	58.	ND	NC	213.	NC	NC
31.80	925.	ND	11.2	2763.	1.09	5.5	332.	ND	NC	213.	NC	NC
31.95	928.	ND	10.7	2635.	1.05	3.0	172.	ND	NC	213.	NC	NC
32.10	918.	ND	10.7	2641.	1.05	3.1	180.	ND	NC	211.	NC	NC
32.25	932.	ND	10.9	2672.	1.05	2.8	162.	ND	NC	214.	NC	NC
32.40	887.	ND	11.0	2714.	1.03	1.7	99.	ND	NC	204.	NC	NC
32.55	822.	ND	10.2	2511.	1.03	2.0	110.	ND	NC	189.	NC	NC
32.70	747.	ND	10.0	2451.	1.03	1.5	79.	ND	NC	172.	NC	NC
32.85	700.	ND	10.2	2516.	1.02	1.1	61.	ND	NC	161.	NC	NC
33.00	693.	ND	10.2	2519.	1.03	1.8	101.	ND	NC	159.	NC	NC
33.15	680.	ND	10.3	2530.	1.04	2.2	119.	ND	NC	156.	NC	NC
33.30	662.	ND	10.7	2636.	1.05	2.9	165.	ND	NC	152.	NC	NC
33.45	651.	ND	9.8	2419.	1.02	1.3	71.	ND	NC	150.	NC	NC
33.60	660.	ND	9.6	2360.	1.02	1.0	52.	ND	NC	152.	NC	NC
33.75	677.	ND	10.6	2604.	1.03	1.9	106.	ND	NC	156.	NC	NC
33.90	625.	ND	11.0	2713.	1.07	4.2	251.	ND	NC	144.	NC	NC
34.05	601.	ND	10.5	2576.	1.09	5.0	284.	ND	NC	138.	NC	NC

RUN NUMBER- 19
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	626.	ND	10.2	2512.	1.22	12.8	701.	ND	NC	144.	NC	NC
34.35	640.	ND	10.4	2551.	1.16	9.3	516.	ND	NC	147.	NC	NC
34.50	616.	ND	10.9	2688.	1.09	5.5	324.	ND	NC	142.	NC	NC
34.65	605.	ND	11.1	2719.	1.06	3.3	197.	ND	NC	139.	NC	NC
34.80	636.	ND	10.9	2669.	1.14	8.3	487.	ND	NC	146.	NC	NC
34.95	631.	ND	10.8	2654.	1.17	10.2	591.	ND	NC	145.	NC	NC
35.10	609.	ND	10.6	2598.	1.18	10.4	589.	ND	NC	140.	NC	NC
35.25	629.	ND	10.9	2690.	1.15	8.7	511.	ND	NC	145.	NC	NC
35.40	615.	ND	11.3	2774.	1.11	6.6	398.	ND	NC	142.	NC	NC
35.55	598.	ND	11.1	2732.	1.12	7.1	425.	ND	NC	138.	NC	NC
35.70	632.	ND	10.7	2641.	1.15	8.6	497.	ND	NC	145.	NC	NC
35.85	615.	ND	10.5	2580.	1.27	15.8	891.	ND	NC	142.	NC	NC
36.00	589.	ND	11.0	2697.	1.37	21.7	1279.	ND	NC	135.	NC	NC
36.15	555.	ND	10.9	2683.	1.53	31.2	1828.	ND	NC	128.	NC	NC
36.30	573.	ND	10.8	2657.	1.33	19.4	1126.	ND	NC	132.	NC	NC
36.45	550.	ND	10.9	2678.	1.15	8.9	518.	ND	NC	127.	NC	NC
36.60	554.	ND	10.5	2573.	1.13	7.7	435.	ND	NC	127.	NC	NC
36.75	564.	ND	10.3	2530.	1.15	8.9	494.	ND	NC	130.	NC	NC
36.90	510.	ND	10.9	2670.	1.18	10.7	624.	ND	NC	117.	NC	NC
37.05	516.	ND	10.6	2615.	1.19	11.1	636.	ND	NC	119.	NC	NC
37.20	527.	ND	10.2	2497.	1.40	23.5	1264.	ND	NC	121.	NC	NC
37.35	522.	ND	10.0	2461.	1.20	11.8	637.	ND	NC	120.	NC	NC
37.50	515.	ND	10.3	2536.	1.09	5.4	298.	ND	NC	118.	NC	NC
37.65	520.	ND	10.3	2534.	1.10	6.1	336.	ND	NC	120.	NC	NC
37.80	535.	ND	10.1	2477.	1.13	7.4	398.	ND	NC	123.	NC	NC
37.95	524.	ND	10.2	2519.	1.12	7.3	399.	ND	NC	120.	NC	NC
38.10	515.	ND	10.3	2538.	1.12	6.8	378.	ND	NC	118.	NC	NC
38.25	520.	ND	10.2	2521.	1.14	8.0	441.	ND	NC	120.	NC	NC
38.40	525.	ND	10.3	2530.	1.19	11.3	623.	ND	NC	121.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 7 78
RUN NUMBER- 2^
SEGMENT NUMBER- 1
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	834.	ND	10.3	2542.	1.02	1.0	56.	ND	NC	192.	NC	NC
0.15	857.	ND	10.3	2526.	1.01	0.6	31.	ND	NC	197.	NC	NC
0.30	840.	ND	10.3	2541.	1.02	1.3	71.	ND	NC	193.	NC	NC
0.45	834.	ND	10.2	2507.	1.03	1.9	103.	ND	NC	192.	NC	NC
0.60	858.	ND	10.4	2560.	1.02	1.0	57.	ND	NC	197.	NC	NC
0.75	823.	ND	10.5	2576.	1.02	1.1	62.	ND	NC	189.	NC	NC
0.90	827.	ND	10.2	2510.	1.01	0.5	25.	ND	NC	190.	NC	NC
1.05	847.	ND	10.5	2576.	1.01	0.3	19.	ND	NC	195.	NC	NC
1.20	857.	ND	10.3	2536.	1.03	1.6	87.	ND	NC	197.	NC	NC
1.35	831.	ND	10.5	2580.	1.03	1.6	89.	ND	NC	191.	NC	NC
1.50	830.	ND	10.1	2475.	1.02	1.1	59.	ND	NC	191.	NC	NC
1.65	861.	ND	9.7	2388.	1.01	0.8	44.	ND	NC	198.	NC	NC
1.80	840.	ND	10.9	2668.	1.01	0.4	24.	ND	NC	193.	NC	NC
1.95	829.	ND	10.3	2522.	1.02	1.4	75.	ND	NC	191.	NC	NC
2.10	855.	ND	10.5	2578.	1.02	1.0	54.	ND	NC	197.	NC	NC
2.25	832.	ND	10.8	2659.	1.01	0.4	22.	ND	NC	191.	NC	NC
2.40	824.	ND	10.6	2595.	1.01	0.6	35.	ND	NC	189.	NC	NC
2.55	830.	ND	10.0	2459.	1.01	0.7	39.	ND	NC	191.	NC	NC
2.70	863.	ND	9.5	2343.	1.05	2.7	137.	ND	NC	199.	NC	NC
2.85	862.	ND	9.4	2322.	1.07	4.0	204.	ND	NC	198.	NC	NC
3.00	872.	ND	9.5	2339.	1.07	3.8	197.	ND	NC	201.	NC	NC
3.15	907.	ND	9.3	2281.	1.10	5.8	290.	ND	NC	209.	NC	NC
3.30	904.	ND	9.6	2367.	1.13	7.4	383.	ND	NC	208.	NC	NC
3.45	866.	ND	9.5	2341.	1.12	7.0	357.	ND	NC	204.	NC	NC
3.60	896.	ND	9.9	2428.	1.11	6.4	337.	ND	NC	206.	NC	NC
3.75	912.	ND	10.1	2495.	1.10	6.1	333.	ND	NC	210.	NC	NC
3.90	882.	ND	9.9	2443.	1.07	4.4	233.	ND	NC	203.	NC	NC
4.05	875.	ND	9.9	2431.	1.07	3.9	209.	ND	NC	201.	NC	NC
4.20	900.	ND	10.0	2453.	1.07	4.4	235.	ND	NC	207.	NC	NC
4.35	886.	ND	10.0	2449.	1.07	4.0	216.	ND	NC	204.	NC	NC
4.50	867.	ND	9.8	2400.	1.05	3.1	165.	ND	NC	200.	NC	NC
4.65	911.	ND	10.1	2484.	1.06	3.7	200.	ND	NC	210.	NC	NC
4.80	895.	ND	10.4	2566.	1.02	1.3	73.	ND	NC	206.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	882.	ND	10.2	2507.	1.03	1.5	82.	ND	NC	203.	NC	NC
5.10	896.	ND	9.8	2412.	1.02	1.0	52.	ND	NC	206.	NC	NC
5.25	914.	ND	9.7	2378.	1.01	0.8	42.	ND	NC	210.	NC	NC
5.40	873.	ND	9.8	2411.	1.02	1.1	59.	ND	NC	201.	NC	NC
5.55	877.	ND	10.0	2455.	1.02	1.2	63.	ND	NC	202.	NC	NC
5.70	898.	ND	10.3	2526.	1.01	0.8	47.	ND	NC	206.	NC	NC
5.85	881.	ND	10.5	2589.	1.01	0.7	38.	ND	NC	203.	NC	NC
6.00	873.	ND	10.1	2487.	1.02	1.2	64.	ND	NC	201.	NC	NC
6.15	898.	ND	10.4	2546.	1.01	0.6	31.	ND	NC	207.	NC	NC
6.30	878.	ND	11.0	2695.	1.01	0.8	45.	ND	NC	202.	NC	NC
6.45	865.	ND	10.8	2659.	1.01	0.4	24.	ND	NC	199.	NC	NC
6.60	866.	ND	10.8	2651.	1.01	0.4	23.	ND	NC	199.	NC	NC
6.75	891.	ND	10.6	2617.	1.02	0.9	52.	ND	NC	205.	NC	NC
6.90	862.	ND	10.1	2488.	1.02	1.1	58.	ND	NC	198.	NC	NC
7.05	875.	ND	10.1	2493.	1.01	0.4	20.	ND	NC	201.	NC	NC
7.20	908.	ND	11.0	2696.	1.01	0.4	24.	ND	NC	209.	NC	NC
7.35	882.	ND	11.3	2767.	1.02	0.9	54.	ND	NC	203.	NC	NC
7.50	858.	ND	10.9	2681.	1.01	0.4	23.	ND	NC	197.	NC	NC
7.65	894.	ND	10.3	2525.	1.01	0.5	26.	ND	NC	206.	NC	NC
7.80	889.	ND	10.7	2633.	1.00	0.	0.	ND	NC	205.	NC	NC
7.95	869.	ND	10.5	2575.	1.03	1.7	96.	ND	NC	210.	NC	NC
8.10	888.	ND	10.1	2481.	1.02	1.2	68.	ND	NC	204.	NC	NC
8.25	898.	ND	10.4	2549.	1.02	1.0	57.	ND	NC	207.	NC	NC
8.40	877.	ND	9.9	2434.	1.03	1.5	81.	ND	NC	202.	NC	NC
8.55	865.	ND	9.1	2235.	1.03	2.0	98.	ND	NC	199.	NC	NC
8.70	904.	ND	9.9	2438.	1.02	1.2	65.	ND	NC	208.	NC	NC
8.85	895.	ND	10.2	2504.	1.04	2.1	117.	ND	NC	206.	NC	NC
9.00	866.	ND	10.4	2567.	1.03	1.8	100.	ND	NC	199.	NC	NC
9.15	880.	ND	9.6	2357.	1.05	2.7	139.	ND	NC	202.	NC	NC
9.30	902.	ND	9.0	2215.	1.02	1.0	50.	ND	NC	207.	NC	NC
9.45	875.	ND	10.0	2465.	1.01	0.4	23.	ND	NC	201.	NC	NC
9.60	880.	ND	10.8	2653.	1.01	0.4	21.	ND	NC	202.	NC	NC
9.75	900.	ND	11.0	2715.	1.01	0.4	22.	ND	NC	207.	NC	NC
9.90	857.	ND	10.5	2594.	1.01	0.3	19.	ND	NC	197.	NC	NC
10.05	869.	ND	9.4	2300.	1.00	0.	0.	ND	NC	200.	NC	NC
10.20	894.	ND	10.3	2530.	1.00	0.	0.	ND	NC	206.	NC	NC
10.35	894.	ND	11.1	2734.	1.00	0.	0.	ND	NC	206.	NC	NC
10.50	875.	ND	11.1	2734.	1.00	0.	0.	ND	NC	201.	NC	NC
10.65	887.	ND	10.5	2576.	1.01	0.8	47.	ND	NC	204.	NC	NC

RUN NUMBER- 29
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	898.	ND	10.4	2547.	1.00	0.	0.	ND	NC	207.	NC	NC
10.95	881.	ND	10.8	2662.	1.00	0.	0.	ND	NC	203.	NC	NC
11.10	875.	ND	11.0	2703.	1.00	0.	0.	ND	NC	201.	NC	NC
11.25	899.	ND	11.1	2719.	1.01	0.4	25.	ND	NC	207.	NC	NC
11.40	865.	ND	11.2	2752.	1.01	0.4	21.	ND	NC	199.	NC	NC
11.55	856.	ND	10.5	2576.	1.00	0.	0.	ND	NC	197.	NC	NC
11.70	884.	ND	10.6	2604.	1.00	0.	0.	ND	NC	203.	NC	NC
11.85	883.	ND	10.9	2686.	1.02	1.0	58.	ND	NC	203.	NC	NC
12.00	875.	ND	10.7	2623.	1.01	0.8	46.	ND	NC	201.	NC	NC
12.15	888.	ND	10.2	2516.	1.01	0.9	48.	ND	NC	204.	NC	NC
12.30	891.	ND	9.9	2442.	1.04	2.4	129.	ND	NC	205.	NC	NC
12.45	879.	ND	9.8	2412.	1.06	3.7	195.	ND	NC	202.	NC	NC
12.60	870.	ND	9.6	2354.	1.06	3.7	192.	ND	NC	200.	NC	NC
12.75	896.	ND	9.4	2303.	1.10	5.8	291.	ND	NC	207.	NC	NC
12.90	881.	ND	9.7	2395.	1.12	7.0	365.	ND	NC	203.	NC	NC
13.05	871.	ND	9.8	2402.	1.10	6.0	315.	ND	NC	200.	NC	NC
13.20	888.	ND	9.8	2404.	1.09	5.5	289.	ND	NC	204.	NC	NC
13.35	891.	ND	9.9	2439.	1.09	5.5	295.	ND	NC	205.	NC	NC
13.50	872.	ND	9.9	2435.	1.11	6.3	333.	ND	NC	200.	NC	NC
13.65	866.	ND	9.7	2378.	1.07	3.8	199.	ND	NC	199.	NC	NC
13.80	896.	ND	10.2	2510.	1.05	2.7	146.	ND	NC	206.	NC	NC
13.95	873.	ND	10.7	2624.	1.03	2.0	117.	ND	NC	201.	NC	NC
14.10	873.	ND	10.3	2535.	1.02	1.2	66.	ND	NC	201.	NC	NC
14.25	900.	ND	10.8	2651.	1.01	0.5	28.	ND	NC	207.	NC	NC
14.40	867.	ND	10.9	2672.	1.01	0.5	31.	ND	NC	199.	NC	NC
14.55	858.	ND	11.0	2699.	1.01	0.5	29.	ND	NC	197.	NC	NC
14.70	877.	ND	11.0	2711.	1.01	0.5	32.	ND	NC	202.	NC	NC
14.85	889.	ND	11.0	2695.	1.03	1.8	104.	ND	NC	205.	NC	NC
15.00	879.	ND	10.9	2686.	1.02	1.0	60.	ND	NC	202.	NC	NC
15.15	866.	ND	10.7	2638.	1.01	0.4	25.	ND	NC	199.	NC	NC
15.30	904.	ND	10.7	2638.	1.01	0.6	35.	ND	NC	208.	NC	NC
15.45	886.	ND	11.2	2750.	1.01	0.5	28.	ND	NC	204.	NC	NC
15.60	858.	ND	11.4	2791.	1.02	1.0	61.	ND	NC	197.	NC	NC
15.75	894.	ND	10.2	2515.	1.01	0.3	18.	ND	NC	206.	NC	NC
15.90	892.	ND	10.1	2485.	1.01	0.3	18.	ND	NC	205.	NC	NC
16.05	868.	ND	10.8	2662.	1.01	0.4	23.	ND	NC	200.	NC	NC
16.20	884.	ND	10.9	2672.	1.00	0.	0.	ND	NC	203.	NC	NC
16.35	891.	ND	10.8	2656.	1.00	0.	0.	ND	NC	205.	NC	NC
16.50	873.	ND	10.8	2648.	1.00	0.	0.	ND	NC	201.	NC	NC

RUN NUMBER- 2
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	865.	ND	10.6	2598.	1.01	0.4	22.	ND	NC	199.	NC	NC
16.80	888.	ND	10.3	2536.	1.01	0.5	30.	ND	NC	204.	NC	NC
16.95	864.	ND	10.1	2487.	1.01	0.7	36.	ND	NC	199.	NC	NC
17.10	858.	ND	10.5	2570.	1.01	0.8	47.	ND	NC	197.	NC	NC
17.25	884.	ND	10.6	2608.	1.01	0.8	46.	ND	NC	203.	NC	NC
17.40	890.	ND	10.6	2606.	1.01	0.6	36.	ND	NC	205.	NC	NC
17.55	868.	ND	10.1	2476.	1.01	0.9	47.	ND	NC	200.	NC	NC
17.70	875.	ND	9.9	2436.	1.01	0.6	31.	ND	NC	201.	NC	NC
17.85	894.	ND	10.4	2564.	1.02	1.0	54.	ND	NC	206.	NC	NC
18.00	877.	ND	11.0	2696.	1.02	0.9	56.	ND	NC	202.	NC	NC
18.15	859.	ND	10.4	2566.	1.01	0.8	43.	ND	NC	198.	NC	NC
18.30	883.	ND	10.2	2506.	1.01	0.6	35.	ND	NC	203.	NC	NC
18.45	881.	ND	10.2	2511.	1.01	0.5	29.	ND	NC	203.	NC	NC
18.60	868.	ND	10.3	2523.	1.03	1.7	92.	ND	NC	200.	NC	NC
18.75	882.	ND	10.4	2554.	1.03	1.6	87.	ND	NC	203.	NC	NC
18.90	870.	ND	10.6	2609.	1.03	2.0	117.	ND	NC	200.	NC	NC
19.05	862.	ND	10.6	2605.	1.02	1.2	65.	ND	NC	198.	NC	NC
19.20	867.	ND	10.6	2602.	1.01	0.9	49.	ND	NC	199.	NC	NC
19.35	885.	ND	10.6	2602.	1.02	1.0	55.	ND	NC	204.	NC	NC
19.50	877.	ND	10.6	2597.	1.01	0.7	42.	ND	NC	202.	NC	NC
19.65	859.	ND	10.8	2661.	1.01	0.5	29.	ND	NC	198.	NC	NC
19.80	873.	ND	10.5	2571.	1.01	0.3	18.	ND	NC	201.	NC	NC
19.95	887.	ND	10.8	2665.	1.01	0.3	19.	ND	NC	204.	NC	NC
20.10	877.	ND	10.9	2683.	1.01	0.4	25.	ND	NC	202.	NC	NC
20.25	879.	ND	10.8	2662.	1.00	0.	0.	ND	NC	202.	NC	NC
20.40	883.	ND	10.9	2687.	1.00	0.	0.	ND	NC	203.	NC	NC
20.55	873.	ND	11.0	2697.	1.00	0.	0.	ND	NC	201.	NC	NC
20.70	875.	ND	11.0	2705.	1.00	0.	0.	ND	NC	201.	NC	NC
20.85	925.	ND	10.3	2543.	1.01	0.4	23.	ND	NC	213.	NC	NC
21.00	935.	ND	10.2	2518.	1.04	2.2	119.	ND	NC	215.	NC	NC
21.15	945.	ND	9.7	2378.	1.05	3.2	166.	ND	NC	217.	NC	NC
21.30	962.	ND	9.6	2369.	1.04	2.4	127.	ND	NC	221.	NC	NC
21.45	969.	ND	9.8	2399.	1.11	6.6	347.	ND	NC	223.	NC	NC
21.60	960.	ND	9.1	2236.	1.14	8.1	394.	ND	NC	221.	NC	NC
21.75	975.	ND	8.9	2197.	1.19	11.1	534.	ND	NC	224.	NC	NC
21.90	992.	ND	9.1	2247.	1.20	11.7	573.	ND	NC	228.	NC	NC
22.05	961.	ND	9.3	2298.	1.21	12.5	627.	ND	NC	221.	NC	NC
22.20	950.	ND	7.6	1862.	1.26	15.0	611.	ND	NC	218.	NC	NC
22.35	975.	ND	6.0	1473.	1.30	17.5	564.	ND	NC	224.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	953.	ND	5.7	1400.	1.31	18.3	559.	ND	NC	219.	NC	NC
22.65	945.	ND	5.5	1351.	1.32	18.6	549.	ND	NC	217.	NC	NC
22.80	952.	ND	5.3	1302.	1.35	20.5	583.	ND	NC	219.	NC	NC
22.95	949.	ND	4.2	1135.	1.34	20.0	452.	ND	NC	218.	NC	NC
23.10	881.	ND	3.7	906.	1.35	20.6	408.	ND	NC	203.	NC	NC
23.25	886.	ND	3.2	783.	1.36	20.9	358.	ND	NC	204.	NC	NC
23.40	985.	ND	6.0	1464.	1.36	21.4	685.	ND	NC	227.	NC	NC
23.55	965.	ND	5.5	1361.	1.37	21.6	642.	ND	NC	222.	NC	NC
23.70	941.	ND	5.4	1562.	1.29	17.3	598.	ND	NC	216.	NC	NC
23.85	966.	ND	9.8	2416.	1.22	12.8	675.	ND	NC	222.	NC	NC
24.00	978.	ND	10.0	2457.	1.25	14.5	780.	ND	NC	225.	NC	NC
24.15	962.	ND	10.0	2470.	1.26	15.3	826.	ND	NC	221.	NC	NC
24.30	969.	ND	10.4	2563.	1.17	9.9	554.	ND	NC	223.	NC	NC
24.45	974.	ND	10.8	2666.	1.09	5.1	295.	ND	NC	224.	NC	NC
24.60	972.	ND	11.0	2708.	1.06	3.3	193.	ND	NC	223.	NC	NC
24.75	952.	ND	11.2	2746.	1.04	2.1	125.	ND	NC	219.	NC	NC
24.90	993.	ND	9.6	2355.	1.02	1.2	61.	ND	NC	228.	NC	NC
25.05	918.	ND	8.7	2143.	1.01	0.7	35.	ND	NC	211.	NC	NC
25.20	866.	ND	11.7	2869.	1.01	0.5	31.	ND	NC	199.	NC	NC
25.35	848.	ND	9.5	2324.	1.01	0.4	19.	ND	NC	195.	NC	NC
25.50	824.	ND	10.2	2508.	1.01	0.5	25.	ND	NC	190.	NC	NC
25.65	799.	ND	11.3	2772.	1.01	0.5	27.	ND	NC	184.	NC	NC
25.80	825.	ND	9.5	2340.	1.00	0.	0.	ND	NC	190.	NC	NC
25.95	819.	ND	9.5	2338.	1.00	0.	0.	ND	NC	188.	NC	NC
26.10	793.	ND	10.7	2639.	1.01	0.4	23.	ND	NC	182.	NC	NC
26.25	771.	ND	10.0	2453.	1.01	0.5	25.	ND	NC	177.	NC	NC
26.40	818.	ND	9.6	2353.	1.01	0.3	16.	ND	NC	188.	NC	NC
26.55	783.	ND	10.5	2587.	1.01	0.5	30.	ND	NC	180.	NC	NC
26.70	769.	ND	11.0	2705.	1.03	1.7	99.	ND	NC	177.	NC	NC
26.85	813.	ND	10.4	2556.	1.01	0.9	49.	ND	NC	187.	NC	NC
27.00	806.	ND	11.0	2695.	1.01	0.4	25.	ND	NC	185.	NC	NC
27.15	789.	ND	10.8	2663.	1.01	0.6	38.	ND	NC	181.	NC	NC
27.30	787.	ND	10.4	2551.	1.01	0.6	33.	ND	NC	181.	NC	NC
27.45	807.	ND	10.3	2544.	1.01	0.6	32.	ND	NC	186.	NC	NC
27.60	778.	ND	11.1	2725.	1.02	1.4	83.	ND	NC	179.	NC	NC
27.75	763.	ND	10.3	2539.	1.01	0.8	47.	ND	NC	176.	NC	NC
27.90	816.	ND	10.4	2555.	1.01	0.6	36.	ND	NC	188.	NC	NC
28.05	772.	ND	10.6	2615.	1.01	0.6	32.	ND	NC	178.	NC	NC
28.20	777.	ND	10.5	2592.	1.01	0.4	23.	ND	NC	179.	NC	NC

RUN NUMBER- 2
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	803.	ND	9.7	2393.	1.02	1.3	69.	ND	NC	185.	NC	NC
28.50	803.	ND	9.5	2328.	1.09	5.2	264.	ND	NC	185.	NC	NC
28.65	792.	ND	9.5	2337.	1.07	4.3	220.	ND	NC	182.	NC	NC
28.80	786.	ND	9.7	2393.	1.05	2.7	141.	ND	NC	181.	NC	NC
28.95	814.	ND	10.0	2457.	1.02	1.5	78.	ND	NC	187.	NC	NC
29.10	789.	ND	9.7	2385.	1.05	2.9	151.	ND	NC	181.	NC	NC
29.25	789.	ND	9.4	2310.	1.06	3.3	164.	ND	NC	181.	NC	NC
29.40	815.	ND	9.8	2422.	1.04	2.2	116.	ND	NC	187.	NC	NC
29.55	789.	ND	10.5	2572.	1.04	2.1	119.	ND	NC	181.	NC	NC
29.70	789.	ND	10.5	2585.	1.02	1.2	67.	ND	NC	181.	NC	NC
29.85	804.	ND	10.3	2523.	1.02	1.0	53.	ND	NC	185.	NC	NC
30.00	808.	ND	10.2	2497.	1.03	1.5	83.	ND	NC	186.	NC	NC
30.15	784.	ND	10.4	2563.	1.03	1.9	107.	ND	NC	180.	NC	NC
30.30	779.	ND	10.4	2553.	1.02	1.3	73.	ND	NC	179.	NC	NC
30.45	810.	ND	10.0	2453.	1.02	1.0	54.	ND	NC	186.	NC	NC
30.60	789.	ND	10.4	2565.	1.01	0.4	21.	ND	NC	181.	NC	NC
30.75	789.	ND	10.4	2566.	1.02	1.0	59.	ND	NC	181.	NC	NC
30.90	796.	ND	10.4	2548.	1.01	0.6	31.	ND	NC	183.	NC	NC
31.05	795.	ND	10.5	2589.	1.01	0.8	46.	ND	NC	183.	NC	NC
31.20	785.	ND	10.4	2569.	1.00	0.	0.	ND	NC	181.	NC	NC
31.35	805.	ND	10.3	2530.	1.00	0.	0.	ND	NC	185.	NC	NC
31.5	835.	ND	10.2	2499.	1.01	0.5	29.	ND	NC	192.	NC	NC
31.65	843.	ND	10.0	2455.	1.03	2.0	106.	ND	NC	194.	NC	NC
31.80	856.	ND	9.8	2402.	1.06	3.2	170.	ND	NC	197.	NC	NC
31.95	881.	ND	9.9	2428.	1.06	3.8	201.	ND	NC	203.	NC	NC
32.10	879.	ND	10.4	2563.	1.07	3.8	215.	ND	NC	202.	NC	NC
32.25	863.	ND	10.3	2524.	1.05	2.9	161.	ND	NC	198.	NC	NC
32.40	862.	ND	10.3	2526.	1.03	1.5	82.	ND	NC	198.	NC	NC
32.55	884.	ND	10.5	2593.	1.01	0.8	47.	ND	NC	203.	NC	NC
32.70	868.	ND	10.7	2642.	1.01	0.6	34.	ND	NC	200.	NC	NC
32.85	871.	ND	10.8	2661.	1.01	0.5	30.	ND	NC	200.	NC	NC
33.00	884.	ND	10.7	2641.	1.02	0.9	53.	ND	NC	203.	NC	NC
33.15	854.	ND	11.0	2693.	1.01	0.8	45.	ND	NC	196.	NC	NC
33.30	860.	ND	10.8	2653.	1.01	0.5	29.	ND	NC	198.	NC	NC
33.45	877.	ND	10.8	2653.	1.01	0.6	38.	ND	NC	202.	NC	NC
33.60	865.	ND	10.8	2666.	1.01	0.7	39.	ND	NC	199.	NC	NC
33.75	865.	ND	10.4	2568.	1.00	0.	0.	ND	NC	199.	NC	NC
33.90	877.	ND	10.4	2547.	1.00	0.	0.	ND	NC	202.	NC	NC
34.05	890.	ND	10.8	2655.	1.01	0.5	28.	ND	NC	205.	NC	NC

RUN NUMBER- 2
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	857.	ND	11.0	2707.	1.01	0.4	22.	ND	NC	197.	NC	NC
34.35	862.	ND	10.8	2664.	1.01	0.3	17.	ND	NC	198.	NC	NC
34.50	877.	ND	11.0	2698.	1.01	0.8	47.	ND	NC	202.	NC	NC
34.65	868.	ND	11.2	2759.	1.02	1.1	64.	ND	NC	199.	NC	NC
34.80	856.	ND	11.3	2776.	1.01	0.5	30.	ND	NC	195.	NC	NC
34.95	878.	ND	10.0	2457.	1.01	0.5	26.	ND	NC	202.	NC	NC
35.10	866.	ND	10.4	2547.	1.01	0.7	36.	ND	NC	199.	NC	NC
35.25	867.	ND	10.3	2538.	1.03	1.6	91.	ND	NC	199.	NC	NC
35.40	876.	ND	10.3	2524.	1.03	1.6	87.	ND	NC	201.	NC	NC
35.55	886.	ND	10.2	2517.	1.04	2.4	130.	ND	NC	204.	NC	NC
35.70	864.	ND	10.1	2481.	1.03	2.1	111.	ND	NC	199.	NC	NC
35.85	855.	ND	10.1	2473.	1.01	0.8	42.	ND	NC	197.	NC	NC
36.00	874.	ND	10.3	2531.	1.03	1.6	87.	ND	NC	201.	NC	NC
36.15	859.	ND	10.8	2664.	1.03	1.8	102.	ND	NC	198.	NC	NC
36.30	852.	ND	11.1	2739.	1.02	0.9	54.	ND	NC	196.	NC	NC
36.45	875.	ND	10.3	2524.	1.01	0.6	30.	ND	NC	201.	NC	NC
36.60	871.	ND	10.4	2565.	1.01	0.4	20.	ND	NC	200.	NC	NC
36.75	859.	ND	10.8	2656.	1.02	1.3	73.	ND	NC	197.	NC	NC
36.90	852.	ND	10.9	2686.	1.02	0.9	54.	ND	NC	196.	NC	NC
37.05	871.	ND	10.5	2594.	1.00	0.	0.	ND	NC	200.	NC	NC
37.20	846.	ND	9.9	2444.	1.00	0.	0.	ND	NC	195.	NC	NC
37.35	834.	ND	8.8	2152.	1.00	0.	0.	ND	NC	192.	NC	NC
37.50	846.	ND	7.5	1848.	1.00	0.	0.	ND	NC	195.	NC	NC
37.65	795.	ND	4.4	1083.	1.19	11.3	267.	ND	NC	183.	NC	NC
37.80	795.	ND	3.5	857.	1.31	18.5	346.	ND	NC	183.	NC	NC
37.95	817.	ND	4.1	1017.	1.32	19.0	423.	ND	NC	186.	NC	NC
38.10	814.	ND	4.2	1044.	1.30	17.8	406.	ND	NC	187.	NC	NC
38.25	777.	ND	3.7	921.	1.35	20.4	410.	ND	NC	179.	NC	NC
38.40	759.	ND	3.1	752.	1.36	21.3	350.	ND	NC	175.	NC	NC
38.55	815.	ND	4.2	1022.	1.36	21.2	474.	ND	NC	197.	NC	NC
38.70	811.	ND	4.4	1082.	1.36	21.5	508.	ND	NC	187.	NC	NC
38.85	831.	ND	5.2	1284.	1.36	21.3	598.	ND	NC	191.	NC	NC
39.00	875.	ND	8.4	2071.	1.28	16.4	743.	ND	NC	201.	NC	NC
39.15	873.	ND	7.3	1805.	1.30	17.4	686.	ND	NC	201.	NC	NC
39.30	869.	ND	8.5	2082.	1.23	13.4	611.	ND	NC	200.	NC	NC
39.45	871.	ND	9.8	2415.	1.21	12.1	637.	ND	NC	200.	NC	NC
39.60	875.	ND	10.8	2659.	1.15	8.9	515.	ND	NC	201.	NC	NC
39.75	863.	ND	10.9	2680.	1.07	4.2	249.	ND	NC	198.	NC	NC
39.90	857.	ND	11.1	2727.	1.04	2.6	152.	ND	NC	197.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	841.	ND	10.9	2677.	1.03	1.5	90.	ND	NC	193.	NC	NC
40.20	814.	ND	11.1	2724.	1.02	1.0	61.	ND	NC	187.	NC	NC
40.35	832.	ND	11.6	2854.	1.01	0.8	47.	ND	NC	191.	NC	NC
40.50	830.	ND	11.5	2823.	1.01	0.5	30.	ND	NC	191.	NC	NC
40.65	819.	ND	11.3	2776.	1.01	0.3	20.	ND	NC	188.	NC	NC
40.80	816.	ND	11.2	2758.	1.01	0.4	27.	ND	NC	188.	NC	NC
40.95	823.	ND	11.7	2874.	1.01	0.4	25.	ND	NC	189.	NC	NC
41.10	841.	ND	11.7	2871.	1.01	0.3	21.	ND	NC	193.	NC	NC
41.25	818.	ND	11.5	2827.	1.00	0.	0.	ND	NC	188.	NC	NC
41.40	813.	ND	11.8	2893.	1.00	0.	0.	ND	NC	187.	NC	NC
41.55	835.	ND	11.2	2755.	1.00	0.	0.	ND	NC	192.	NC	NC
41.70	820.	ND	10.9	2686.	1.00	0.	0.	ND	NC	189.	NC	NC
41.85	815.	ND	10.9	2676.	1.00	0.	0.	ND	NC	188.	NC	NC
42.00	828.	ND	11.0	2714.	1.00	0.	0.	ND	NC	190.	NC	NC
42.15	826.	ND	11.2	2756.	1.01	0.3	19.	ND	NC	190.	NC	NC
42.30	812.	ND	11.2	2753.	1.00	0.	0.	ND	NC	187.	NC	NC
42.45	835.	ND	10.9	2684.	1.01	0.3	17.	ND	NC	192.	NC	NC
42.60	836.	ND	10.6	2598.	1.03	1.5	86.	ND	NC	192.	NC	NC
42.75	829.	ND	10.5	2582.	1.04	2.2	122.	ND	NC	191.	NC	NC
42.90	824.	ND	10.2	2498.	1.04	2.6	144.	ND	NC	190.	NC	NC
43.05	838.	ND	9.3	2291.	1.09	5.1	255.	ND	NC	193.	NC	NC
43.20	823.	ND	9.0	2209.	1.21	12.2	587.	ND	NC	189.	NC	NC
43.35	808.	ND	9.4	2303.	1.14	8.2	412.	ND	NC	186.	NC	NC
43.50	821.	ND	9.8	2406.	1.11	6.4	337.	ND	NC	189.	NC	NC
43.65	817.	ND	9.7	2382.	1.09	5.3	277.	ND	NC	188.	NC	NC
43.80	809.	ND	8.6	2127.	1.19	11.2	519.	ND	NC	186.	NC	NC
43.95	816.	ND	9.1	2227.	1.13	7.4	359.	ND	NC	188.	NC	NC
44.10	828.	ND	9.8	2411.	1.08	5.0	262.	ND	NC	190.	NC	NC
44.25	817.	ND	10.1	2494.	1.07	4.0	220.	ND	NC	188.	NC	NC
44.40	817.	ND	9.7	2381.	1.06	3.3	174.	ND	NC	188.	NC	NC
44.55	844.	ND	9.2	2270.	1.05	2.7	133.	ND	NC	194.	NC	NC
44.70	832.	ND	9.2	2263.	1.02	1.0	51.	ND	NC	191.	NC	NC
44.85	821.	ND	9.5	2353.	1.01	0.8	41.	ND	NC	189.	NC	NC
45.00	839.	ND	10.4	2564.	1.01	0.8	43.	ND	NC	193.	NC	NC
45.15	837.	ND	10.7	2631.	1.02	1.2	72.	ND	NC	193.	NC	NC
45.30	825.	ND	10.8	2660.	1.02	0.9	54.	ND	NC	190.	NC	NC
45.45	820.	ND	10.9	2674.	1.01	0.9	50.	ND	NC	189.	NC	NC
45.60	841.	ND	10.7	2630.	1.01	0.7	41.	ND	NC	193.	NC	NC
45.75	874.	ND	10.8	2650.	1.01	0.8	47.	ND	NC	201.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 7 78
RUN NUMBER- 20
SEGMENT NUMBER- 2
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.66
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	676.	ND	8.0	1975.	1.18	10.4	448.	ND	NC	156.	NC	NC
0.15	672.	ND	8.0	1964.	1.16	9.5	408.	ND	NC	155.	NC	NC
0.30	689.	ND	8.8	2167.	1.16	9.1	432.	ND	NC	159.	NC	NC
0.45	696.	ND	8.7	2138.	1.15	8.7	406.	ND	NC	160.	NC	NC
0.60	656.	ND	8.9	2188.	1.10	5.9	284.	ND	NC	151.	NC	NC
0.75	698.	ND	9.3	2293.	1.07	4.1	206.	ND	NC	161.	NC	NC
0.90	702.	ND	9.4	2306.	1.07	3.9	197.	ND	NC	161.	NC	NC
1.05	693.	ND	9.1	2238.	1.07	3.9	192.	ND	NC	159.	NC	NC
1.20	676.	ND	9.0	2214.	1.07	3.9	189.	ND	NC	155.	NC	NC
1.35	684.	ND	9.1	2231.	1.06	3.7	180.	ND	NC	157.	NC	NC
1.50	689.	ND	9.2	2251.	1.06	3.5	171.	ND	NC	159.	NC	NC
1.65	664.	ND	9.0	2221.	1.05	3.2	157.	ND	NC	153.	NC	NC
1.80	698.	ND	9.0	2221.	1.05	3.0	148.	ND	NC	161.	NC	NC
1.95	692.	ND	8.6	2110.	1.05	3.2	148.	ND	NC	159.	NC	NC
2.10	685.	ND	7.6	1875.	1.07	4.1	166.	ND	NC	158.	NC	NC
2.25	697.	ND	7.5	1834.	1.16	9.2	369.	ND	NC	160.	NC	NC
2.40	726.	ND	7.3	1800.	1.23	13.4	527.	ND	NC	167.	NC	NC
2.55	709.	ND	6.5	1592.	1.24	14.3	499.	ND	NC	163.	NC	NC
2.70	710.	ND	6.4	1571.	1.28	16.3	559.	ND	NC	163.	NC	NC
2.85	733.	ND	6.3	1554.	1.28	16.7	568.	ND	NC	169.	NC	NC
3.00	730.	ND	5.3	1304.	1.30	17.9	509.	ND	NC	168.	NC	NC
3.15	725.	ND	5.8	1417.	1.31	18.1	562.	ND	NC	167.	NC	NC
3.30	746.	ND	6.6	1623.	1.29	17.1	605.	ND	NC	170.	NC	NC
3.45	740.	ND	6.2	1526.	1.29	16.9	564.	ND	NC	170.	NC	NC
3.60	730.	ND	5.8	1435.	1.29	16.9	529.	ND	NC	168.	NC	NC
3.75	754.	ND	5.6	1365.	1.32	18.6	555.	ND	NC	173.	NC	NC
3.90	741.	ND	6.8	1668.	1.27	16.1	587.	ND	NC	170.	NC	NC
4.05	709.	ND	7.4	1830.	1.26	15.2	610.	ND	NC	163.	NC	NC
4.20	712.	ND	7.6	1870.	1.22	13.0	530.	ND	NC	164.	NC	NC
4.35	736.	ND	7.5	1856.	1.23	13.2	537.	ND	NC	169.	NC	NC
4.50	729.	ND	7.4	1812.	1.23	13.5	535.	ND	NC	168.	NC	NC
4.65	699.	ND	7.4	1819.	1.21	12.4	494.	ND	NC	161.	NC	NC
4.80	733.	ND	7.1	1748.	1.21	12.4	474.	ND	NC	169.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	750.	ND	6.2	1528.	1.24	13.9	463.	ND	NC	173.	NC	NC
5.10	749.	ND	5.1	1249.	1.32	18.8	512.	ND	NC	172.	NC	NC
5.25	756.	ND	4.9	1211.	1.32	18.5	490.	ND	NC	174.	NC	NC
5.40	768.	ND	4.9	1200.	1.30	17.7	465.	ND	NC	177.	NC	NC
5.55	763.	ND	4.0	976.	1.31	18.5	394.	ND	NC	175.	NC	NC
5.70	754.	ND	3.0	732.	1.33	19.7	315.	ND	NC	173.	NC	NC
5.85	803.	ND	4.1	1006.	1.36	21.0	462.	ND	NC	185.	NC	NC
6.00	783.	ND	3.5	870.	1.36	21.2	403.	ND	NC	180.	NC	NC
6.15	758.	ND	3.9	949.	1.35	20.8	430.	ND	NC	174.	NC	NC
6.30	811.	ND	4.2	1024.	1.34	20.2	453.	ND	NC	187.	NC	NC
6.45	813.	ND	3.3	809.	1.37	21.5	380.	ND	NC	187.	NC	NC
6.60	775.	ND	3.1	767.	1.37	21.6	362.	ND	NC	178.	NC	NC
6.75	799.	ND	3.9	953.	1.37	21.8	454.	ND	NC	184.	NC	NC
6.90	852.	ND	4.2	1041.	1.37	21.7	494.	ND	NC	196.	NC	NC
7.05	802.	ND	3.2	783.	1.37	21.7	372.	ND	NC	185.	NC	NC
7.20	784.	ND	2.7	672.	1.37	22.0	322.	ND	NC	180.	NC	NC
7.35	859.	ND	3.2	787.	1.37	21.7	373.	ND	NC	198.	NC	NC
7.50	805.	ND	2.9	718.	1.37	21.7	340.	ND	NC	185.	NC	NC
7.65	785.	ND	2.8	678.	1.37	22.0	325.	ND	NC	181.	NC	NC
7.80	902.	ND	3.4	845.	1.37	21.8	402.	ND	NC	208.	NC	NC
7.95	827.	ND	3.0	741.	1.38	22.3	361.	ND	NC	190.	NC	NC
8.10	791.	ND	2.7	659.	1.39	22.9	329.	ND	NC	182.	NC	NC
8.25	793.	ND	3.1	765.	1.38	22.4	374.	ND	NC	182.	NC	NC
8.40	916.	ND	3.4	826.	1.37	22.0	398.	ND	NC	211.	NC	NC
8.55	799.	ND	2.7	655.	1.37	21.9	313.	ND	NC	184.	NC	NC
8.70	791.	ND	3.0	736.	1.38	22.5	362.	ND	NC	182.	NC	NC
8.85	850.	ND	3.7	912.	1.39	22.8	454.	ND	NC	195.	NC	NC
9.00	798.	ND	3.1	756.	1.38	22.6	372.	ND	NC	184.	NC	NC
9.15	788.	ND	2.5	603.	1.39	22.7	298.	ND	NC	181.	NC	NC
9.30	843.	ND	3.2	784.	1.39	22.7	389.	ND	NC	194.	NC	NC
9.45	872.	ND	3.1	768.	1.38	22.6	379.	ND	NC	201.	NC	NC
9.60	796.	ND	2.3	556.	1.39	22.7	276.	ND	NC	183.	NC	NC
9.75	769.	ND	2.6	637.	1.39	22.9	318.	ND	NC	177.	NC	NC
9.90	927.	ND	2.9	718.	1.39	22.9	359.	ND	NC	213.	NC	NC
10.05	797.	ND	2.2	538.	1.38	22.3	263.	ND	NC	183.	NC	NC
10.20	791.	ND	2.5	619.	1.38	22.3	302.	ND	NC	182.	NC	NC
10.35	864.	ND	2.8	693.	1.38	22.6	343.	ND	NC	199.	NC	NC
10.50	819.	ND	3.1	768.	1.39	22.7	381.	ND	NC	188.	NC	NC
10.65	790.	ND	2.2	539.	1.39	22.9	270.	ND	NC	182.	NC	NC

RUN NUMBER- 2
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	877.	ND	2.6	632.	1.38	22.2	306.	ND	NC	202.	NC	NC
10.95	905.	ND	2.5	605.	1.38	22.4	296.	ND	NC	208.	NC	NC
11.10	816.	ND	1.8	447.	1.39	22.9	224.	ND	NC	188.	NC	NC
11.25	819.	ND	2.5	616.	1.40	23.4	315.	ND	NC	188.	NC	NC
11.40	915.	ND	2.6	633.	1.39	22.9	316.	ND	NC	211.	NC	NC
11.55	820.	ND	1.8	434.	1.39	22.7	215.	ND	NC	189.	NC	NC
11.70	911.	ND	1.4	342.	1.38	22.6	169.	ND	NC	211.	NC	NC
11.85	855.	ND	1.4	345.	1.38	22.3	168.	ND	NC	197.	NC	NC
12.00	795.	ND	1.5	366.	1.38	22.2	177.	ND	NC	183.	NC	NC
12.15	763.	ND	1.3	327.	1.39	23.1	165.	ND	NC	176.	NC	NC
12.30	830.	ND	0.8	207.	1.41	23.9	108.	ND	NC	191.	NC	NC
12.45	983.	ND	0.5	120.	1.40	23.7	62.	ND	NC	226.	NC	NC
12.60	960.	ND	0.2	54.	1.40	23.3	27.	ND	NC	221.	NC	NC
12.75	839.	ND	0.0	0.	1.40	23.3	0.	ND	NC	193.	NC	NC
12.90	775.	ND	0.1	20.	1.40	23.3	10.	ND	NC	178.	NC	NC
13.05	814.	ND	0.8	193.	1.40	23.3	98.	ND	NC	187.	NC	NC
13.20	1495.	ND	3.3	809.	1.40	23.6	417.	ND	NC	344.	NC	NC
13.35	1422.	ND	4.2	1042.	1.40	23.5	535.	ND	NC	327.	NC	NC
13.50	1366.	ND	4.0	988.	1.41	24.0	517.	ND	NC	314.	NC	NC
13.65	1346.	ND	4.0	992.	1.40	23.8	516.	ND	NC	310.	NC	NC
13.80	1417.	ND	4.6	1125.	1.40	23.5	578.	ND	NC	326.	NC	NC
13.95	1456.	ND	4.0	994.	1.40	23.6	513.	ND	NC	335.	NC	NC
14.10	1381.	ND	4.1	1002.	1.40	23.6	516.	ND	NC	318.	NC	NC
14.25	1352.	ND	4.5	1111.	1.40	23.4	567.	ND	NC	311.	NC	NC
14.40	1629.	ND	4.6	1141.	1.40	23.3	581.	ND	NC	421.	NC	NC
14.55	1767.	ND	3.9	955.	1.40	23.5	491.	ND	NC	406.	NC	NC
14.70	1421.	ND	3.5	866.	1.41	24.1	455.	ND	NC	327.	NC	NC
14.85	1597.	ND	4.7	1157.	1.40	23.5	594.	ND	NC	367.	NC	NC
15.00	1750.	ND	4.5	1106.	1.40	23.4	565.	ND	NC	402.	NC	NC
15.15	1517.	ND	3.9	967.	1.40	23.8	502.	ND	NC	349.	NC	NC
15.30	1483.	ND	4.3	1068.	1.41	24.2	566.	ND	NC	341.	NC	NC
15.45	1554.	ND	5.5	1346.	1.40	23.7	697.	ND	NC	357.	NC	NC
15.60	1604.	ND	4.5	1098.	1.40	23.6	567.	ND	NC	369.	NC	NC
15.75	1515.	ND	3.5	857.	1.40	23.6	442.	ND	NC	349.	NC	NC
15.90	1468.	ND	5.0	1224.	1.40	23.5	628.	ND	NC	338.	NC	NC
16.05	1740.	ND	6.6	1613.	1.40	23.4	824.	ND	NC	400.	NC	NC
16.20	1675.	ND	8.8	2169.	1.36	21.5	1017.	ND	NC	385.	NC	NC
16.35	1499.	ND	8.3	2053.	1.34	20.0	896.	ND	NC	345.	NC	NC
16.50	1362.	ND	7.7	1897.	1.27	15.9	657.	ND	NC	313.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1651.	ND	5.3	1314.	1.17	9.9	284.	ND	NC	380.	NC	NC
16.80	1534.	ND	4.4	1094.	1.15	8.8	210.	ND	NC	353.	NC	NC
16.95	1466.	ND	13.3	3260.	1.13	7.7	547.	ND	NC	337.	NC	NC
17.10	1413.	ND	11.3	2772.	1.07	3.9	236.	ND	NC	325.	NC	NC
17.25	1391.	ND	7.9	1941.	1.04	2.4	100.	ND	NC	320.	NC	NC
17.40	1375.	ND	7.2	1766.	1.08	4.6	177.	ND	NC	316.	NC	NC
17.55	1327.	ND	12.2	3004.	1.07	3.9	255.	ND	NC	305.	NC	NC
17.70	1290.	ND	11.6	2852.	1.04	2.2	138.	ND	NC	297.	NC	NC
17.85	1252.	ND	8.7	2133.	1.02	1.3	59.	ND	NC	288.	NC	NC
18.00	1058.	ND	8.2	2016.	1.01	0.6	26.	ND	NC	243.	NC	NC
18.15	1040.	ND	8.9	2179.	1.01	0.3	16.	ND	NC	239.	NC	NC
18.30	1102.	ND	11.3	2780.	1.01	0.7	41.	ND	NC	254.	NC	NC
18.45	1091.	ND	11.8	2897.	1.02	1.4	91.	ND	NC	251.	NC	NC
18.60	1049.	ND	10.3	2536.	1.01	0.7	40.	ND	NC	241.	NC	NC
18.75	1084.	ND	10.3	2532.	1.04	2.1	116.	ND	NC	249.	NC	NC
18.90	1087.	ND	11.2	2756.	1.01	0.5	31.	ND	NC	250.	NC	NC
19.05	1075.	ND	12.7	3122.	1.01	0.5	32.	ND	NC	247.	NC	NC
19.20	1068.	ND	12.3	3036.	1.01	0.5	33.	ND	NC	246.	NC	NC
19.35	1084.	ND	10.5	2584.	1.00	0.	0.	ND	NC	249.	NC	NC
19.50	1123.	ND	11.3	2772.	1.00	0.	0.	ND	NC	258.	NC	NC
19.65	1093.	ND	12.6	3089.	1.00	0.	0.	ND	NC	251.	NC	NC
19.80	1055.	ND	11.5	2840.	1.00	0.	0.	ND	NC	243.	NC	NC
19.95	1085.	ND	11.0	2701.	1.00	0.	0.	ND	NC	250.	NC	NC
20.10	1085.	ND	11.4	2814.	1.00	0.	0.	ND	NC	250.	NC	NC
20.25	1066.	ND	11.4	2813.	1.00	0.	0.	ND	NC	245.	NC	NC
20.40	1062.	ND	10.9	2673.	1.00	0.	0.	ND	NC	244.	NC	NC
20.55	1099.	ND	10.8	2651.	1.00	0.	0.	ND	NC	253.	NC	NC
20.70	1082.	ND	8.5	2091.	1.00	0.	0.	ND	NC	249.	NC	NC
20.85	1085.	ND	5.3	1308.	1.02	1.1	31.	ND	NC	249.	NC	NC
21.00	1097.	ND	7.0	1725.	1.06	3.4	129.	ND	NC	252.	NC	NC
21.15	1144.	ND	9.8	2411.	1.03	1.9	101.	ND	NC	263.	NC	NC
21.30	1093.	ND	11.6	2842.	1.13	7.7	478.	ND	NC	251.	NC	NC
21.45	1057.	ND	7.2	1778.	1.05	3.1	122.	ND	NC	243.	NC	NC
21.60	1104.	ND	8.5	2103.	1.02	1.4	63.	ND	NC	254.	NC	NC
21.75	1129.	ND	10.1	2478.	1.03	1.8	99.	ND	NC	260.	NC	NC
21.90	1090.	ND	12.2	2996.	1.04	2.5	162.	ND	NC	251.	NC	NC
22.05	1072.	ND	11.6	2848.	1.03	1.8	113.	ND	NC	247.	NC	NC
22.20	1097.	ND	10.6	2596.	1.02	1.0	55.	ND	NC	252.	NC	NC
22.35	1085.	ND	11.1	2741.	1.02	0.9	54.	ND	NC	250.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1075.	ND	10.9	2671.	1.03	1.6	94.	ND	NC	247.	NC	NC
22.65	1071.	ND	10.4	2553.	1.03	1.7	93.	ND	NC	246.	NC	NC
22.80	1095.	ND	10.5	2580.	1.06	3.3	185.	ND	NC	252.	NC	NC
22.95	1096.	ND	11.4	2815.	1.02	1.4	84.	ND	NC	252.	NC	NC
23.10	1100.	ND	12.0	2952.	1.03	1.6	101.	ND	NC	253.	NC	NC
23.25	1155.	ND	11.5	2831.	1.01	0.7	45.	ND	NC	266.	NC	NC
23.40	1172.	ND	10.5	2577.	1.01	0.6	32.	ND	NC	270.	NC	NC
23.55	1147.	ND	8.6	2119.	1.02	1.2	57.	ND	NC	264.	NC	NC
23.70	1103.	ND	5.1	1247.	1.14	8.2	224.	ND	NC	254.	NC	NC
23.85	1173.	ND	4.3	1045.	1.27	15.8	362.	ND	NC	270.	NC	NC
24.00	1223.	ND	5.6	1387.	1.22	12.9	391.	ND	NC	281.	NC	NC
24.15	1189.	ND	12.2	3007.	1.10	6.2	404.	ND	NC	274.	NC	NC
24.30	1167.	ND	11.2	2744.	1.10	6.1	364.	ND	NC	268.	NC	NC
24.45	1271.	ND	9.5	2343.	1.06	3.3	170.	ND	NC	292.	NC	NC
24.60	1295.	ND	8.2	2004.	1.14	8.4	369.	ND	NC	298.	NC	NC
24.75	1199.	ND	12.2	2988.	1.09	5.4	350.	ND	NC	276.	NC	NC
24.90	1197.	ND	12.6	3107.	1.03	1.8	122.	ND	NC	275.	NC	NC
25.05	1231.	ND	11.4	2796.	1.02	0.9	54.	ND	NC	283.	NC	NC
25.20	1224.	ND	11.1	2721.	1.01	0.7	44.	ND	NC	281.	NC	NC
25.35	1185.	ND	11.4	2798.	1.01	0.6	37.	ND	NC	273.	NC	NC
25.50	1198.	ND	11.7	2876.	1.01	0.4	25.	ND	NC	275.	NC	NC
25.65	1210.	ND	11.0	2709.	1.01	0.3	17.	ND	NC	278.	NC	NC
25.80	1216.	ND	12.1	2986.	1.01	0.3	23.	ND	NC	280.	NC	NC
25.95	1199.	ND	12.3	3024.	1.00	0.	0.	ND	NC	276.	NC	NC
26.10	1229.	ND	11.5	2834.	1.00	0.	0.	ND	NC	293.	NC	NC
26.25	1242.	ND	12.4	3043.	1.00	0.	0.	ND	NC	286.	NC	NC
26.40	1205.	ND	12.7	3118.	1.00	0.	0.	ND	NC	277.	NC	NC
26.55	1146.	ND	12.9	3173.	1.00	0.	0.	ND	NC	264.	NC	NC
26.70	1210.	ND	11.0	2696.	1.00	0.	0.	ND	NC	278.	NC	NC
26.85	1210.	ND	12.6	3097.	1.00	0.	0.	ND	NC	278.	NC	NC
27.00	1180.	ND	14.4	3544.	1.00	0.	0.	ND	NC	271.	NC	NC
27.15	1188.	ND	12.8	3149.	1.00	0.	0.	ND	NC	273.	NC	NC
27.30	1207.	ND	11.3	2787.	1.00	0.	0.	ND	NC	278.	NC	NC
27.45	1153.	ND	14.0	3455.	1.00	0.	0.	ND	NC	265.	NC	NC
27.60	1100.	ND	13.4	3302.	1.00	0.	0.	ND	NC	253.	NC	NC
27.75	1115.	ND	12.2	3005.	1.00	0.	0.	ND	NC	257.	NC	NC
27.90	1154.	ND	11.0	2706.	1.00	0.	0.	ND	NC	265.	NC	NC
28.05	1118.	ND	12.1	2975.	1.00	0.	0.	ND	NC	257.	NC	NC
28.20	1080.	ND	12.0	2947.	1.00	0.	0.	ND	NC	248.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1133.	ND	11.9	2933.	1.00	0.	0.	ND	NC	261.	NC	NC
28.50	1138.	ND	12.0	2944.	1.00	0.	0.	ND	NC	262.	NC	NC
28.65	1091.	ND	13.3	3273.	1.00	0.	0.	ND	NC	251.	NC	NC
28.80	1097.	ND	12.9	3184.	1.00	0.	0.	ND	NC	252.	NC	NC
28.95	1118.	ND	11.8	2899.	1.00	0.	0.	ND	NC	257.	NC	NC
29.10	1129.	ND	12.8	3152.	1.00	0.	0.	ND	NC	260.	NC	NC
29.25	1124.	ND	13.6	3341.	1.00	0.	0.	ND	NC	259.	NC	NC
29.40	1047.	ND	11.8	2905.	1.00	0.	0.	ND	NC	241.	NC	NC
29.55	1101.	ND	11.0	2702.	1.00	0.	0.	ND	NC	253.	NC	NC
29.70	1080.	ND	13.9	3412.	1.00	0.	0.	ND	NC	248.	NC	NC
29.85	1044.	ND	14.1	3480.	1.00	0.	0.	ND	NC	240.	NC	NC
30.00	1029.	ND	12.3	3027.	1.00	0.	0.	ND	NC	237.	NC	NC
30.15	1056.	ND	11.7	2883.	1.00	0.	0.	ND	NC	243.	NC	NC
30.30	1046.	ND	12.8	3159.	1.00	0.	0.	ND	NC	240.	NC	NC
30.45	1044.	ND	13.2	3257.	1.00	0.	0.	ND	NC	240.	NC	NC
30.60	1058.	ND	12.1	2979.	1.00	0.	0.	ND	NC	243.	NC	NC
30.75	1056.	ND	11.9	2919.	1.00	0.	0.	ND	NC	243.	NC	NC
30.90	1040.	ND	13.4	3299.	1.00	0.	0.	ND	NC	239.	NC	NC
31.05	1041.	ND	12.1	2970.	1.00	0.	0.	ND	NC	239.	NC	NC
31.20	1080.	ND	12.2	3007.	1.00	0.	0.	ND	NC	248.	NC	NC
31.35	1069.	ND	12.7	3115.	1.00	0.	0.	ND	NC	246.	NC	NC
31.50	1036.	ND	14.0	3449.	1.00	0.	0.	ND	NC	238.	NC	NC
31.65	1037.	ND	12.8	3140.	1.00	0.	0.	ND	NC	239.	NC	NC
31.80	1064.	ND	11.0	2717.	1.00	0.	0.	ND	NC	245.	NC	NC
31.95	1067.	ND	13.5	3332.	1.00	0.	0.	ND	NC	245.	NC	NC
32.10	1039.	ND	14.9	3672.	1.00	0.	0.	ND	NC	239.	NC	NC
32.25	1066.	ND	12.0	2947.	1.00	0.	0.	ND	NC	244.	NC	NC
32.40	1060.	ND	10.6	2610.	1.00	0.	0.	ND	NC	244.	NC	NC
32.55	964.	ND	13.7	3371.	1.00	0.	0.	ND	NC	222.	NC	NC
32.70	900.	ND	13.2	3244.	1.00	0.	0.	ND	NC	207.	NC	NC
32.85	914.	ND	11.3	2777.	1.00	0.	0.	ND	NC	210.	NC	NC
33.00	936.	ND	12.1	2981.	1.00	0.	0.	ND	NC	215.	NC	NC
33.15	897.	ND	12.8	3148.	1.00	0.	0.	ND	NC	206.	NC	NC
33.30	893.	ND	12.1	2967.	1.00	0.	0.	ND	NC	205.	NC	NC
33.45	933.	ND	12.3	3017.	1.00	0.	0.	ND	NC	215.	NC	NC
33.60	905.	ND	12.0	2942.	1.00	0.	0.	ND	NC	208.	NC	NC
33.75	900.	ND	12.5	3063.	1.00	0.	0.	ND	NC	207.	NC	NC
33.90	913.	ND	12.0	2958.	1.00	0.	0.	ND	NC	210.	NC	NC
34.05	931.	ND	11.9	2931.	1.00	0.	0.	ND	NC	214.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	930.	ND	13.5	3330.	1.00	0.	0.	ND	NC	214.	NC	NC
34.35	918.	ND	12.7	3111.	1.00	0.	0.	ND	NC	211.	NC	NC
34.50	927.	ND	11.5	2822.	1.00	0.	0.	ND	NC	213.	NC	NC
34.65	980.	ND	11.2	2747.	1.00	0.	0.	ND	NC	225.	NC	NC
34.80	936.	ND	13.6	3336.	1.00	0.	0.	ND	NC	215.	NC	NC
34.95	888.	ND	13.4	3285.	1.00	0.	0.	ND	NC	204.	NC	NC
35.10	927.	ND	11.7	2880.	1.00	0.	0.	ND	NC	213.	NC	NC
35.25	923.	ND	11.7	2880.	1.00	0.	0.	ND	NC	212.	NC	NC
35.40	907.	ND	12.6	3091.	1.01	0.3	22.	ND	NC	209.	NC	NC
35.55	914.	ND	12.5	3065.	1.01	0.3	22.	ND	NC	210.	NC	NC
35.70	922.	ND	11.8	2898.	1.00	0.	0.	ND	NC	212.	NC	NC
35.85	934.	ND	11.7	2877.	1.00	0.	0.	ND	NC	215.	NC	NC
36.00	909.	ND	13.4	3298.	1.00	0.	0.	ND	NC	209.	NC	NC
36.15	908.	ND	11.4	2810.	1.00	0.	0.	ND	NC	209.	NC	NC
36.30	947.	ND	12.2	2991.	1.00	0.	0.	ND	NC	218.	NC	NC
36.45	933.	ND	13.0	3207.	1.00	0.	0.	ND	NC	215.	NC	NC
36.60	937.	ND	12.7	3112.	1.00	0.	0.	ND	NC	209.	NC	NC
36.75	905.	ND	11.9	2927.	1.00	0.	0.	ND	NC	208.	NC	NC
36.90	922.	ND	11.9	2927.	1.00	0.	0.	ND	NC	212.	NC	NC
37.05	908.	ND	13.3	3269.	1.00	0.	0.	ND	NC	209.	NC	NC
37.20	908.	ND	13.3	3274.	1.00	0.	0.	ND	NC	209.	NC	NC
37.35	922.	ND	11.4	2806.	1.01	0.3	19.	ND	NC	212.	NC	NC
37.50	932.	ND	11.4	2806.	1.00	0.	0.	ND	NC	214.	NC	NC
37.65	912.	ND	13.4	3287.	1.00	0.	0.	ND	NC	210.	NC	NC
37.80	901.	ND	12.3	3018.	1.00	0.	0.	ND	NC	207.	NC	NC
37.95	926.	ND	11.5	2826.	1.00	0.	0.	ND	NC	213.	NC	NC
38.10	947.	ND	11.6	2843.	1.00	0.	0.	ND	NC	218.	NC	NC
38.25	901.	ND	12.5	3075.	1.00	0.	0.	ND	NC	207.	NC	NC
38.40	871.	ND	11.9	2933.	1.00	0.	0.	ND	NC	200.	NC	NC
38.55	819.	ND	12.0	2947.	1.00	0.	0.	ND	NC	188.	NC	NC
38.70	786.	ND	11.2	2757.	1.00	0.	0.	ND	NC	181.	NC	NC
38.85	750.	ND	11.1	2730.	1.00	0.	0.	ND	NC	172.	NC	NC
39.00	759.	ND	11.7	2883.	1.00	0.	0.	ND	NC	175.	NC	NC
39.15	724.	ND	11.8	2903.	1.00	0.	0.	ND	NC	167.	NC	NC
39.30	705.	ND	11.7	2887.	1.00	0.	0.	ND	NC	162.	NC	NC
39.45	688.	ND	11.3	2786.	1.00	0.	0.	ND	NC	158.	NC	NC
39.60	693.	ND	10.9	2686.	1.01	0.3	20.	ND	NC	159.	NC	NC
39.75	705.	ND	11.0	2717.	1.00	0.	0.	ND	NC	162.	NC	NC
39.90	678.	ND	11.3	2773.	1.01	0.4	25.	ND	NC	156.	NC	NC

RUN NUMBER- 20
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	657.	ND	11.0	2710.	1.01	0.7	42.	ND	NC	151.	NC	NC
40.20	690.	ND	10.7	2626.	1.01	0.9	51.	ND	NC	159.	NC	NC
40.35	669.	ND	10.6	2595.	1.02	1.2	66.	ND	NC	154.	NC	NC
40.50	673.	ND	11.2	2744.	1.02	1.2	72.	ND	NC	155.	NC	NC
40.65	687.	ND	10.8	2655.	1.02	1.1	56.	ND	NC	158.	NC	NC
40.80	699.	ND	10.7	2628.	1.01	0.9	50.	ND	NC	161.	NC	NC
40.95	689.	ND	10.9	2678.	1.02	1.4	84.	ND	NC	159.	NC	NC
41.10	672.	ND	11.0	2699.	1.02	1.1	64.	ND	NC	155.	NC	NC
41.25	667.	ND	10.9	2693.	1.02	0.9	53.	ND	NC	153.	NC	NC
41.40	714.	ND	10.7	2626.	1.01	0.8	44.	ND	NC	164.	NC	NC
41.55	686.	ND	10.2	2501.	1.02	1.0	54.	ND	NC	158.	NC	NC
41.70	670.	ND	9.9	2431.	1.01	0.7	37.	ND	NC	154.	NC	NC
41.85	745.	ND	10.2	2502.	1.01	0.7	36.	ND	NC	171.	NC	NC
42.00	748.	ND	10.2	2509.	1.02	1.1	61.	ND	NC	172.	NC	NC
42.15	735.	ND	10.2	2517.	1.02	1.3	71.	ND	NC	169.	NC	NC
42.30	764.	ND	10.1	2495.	1.02	1.4	74.	ND	NC	176.	NC	NC
42.45	818.	ND	9.2	2273.	1.05	3.2	159.	ND	NC	188.	NC	NC
42.60	872.	ND	8.8	2163.	1.12	7.1	337.	ND	NC	201.	NC	NC
42.75	830.	ND	7.3	1784.	1.24	14.2	555.	ND	NC	191.	NC	NC
42.90	812.	ND	6.3	1550.	1.29	17.1	578.	ND	NC	187.	NC	NC
43.05	916.	ND	6.1	1507.	1.33	19.4	639.	ND	NC	211.	NC	NC
43.20	840.	ND	5.6	1388.	1.31	18.5	561.	ND	NC	193.	NC	NC
43.35	800.	ND	4.6	1139.	1.36	21.4	533.	ND	NC	184.	NC	NC
43.50	812.	ND	4.1	997.	1.39	23.0	502.	ND	NC	187.	NC	NC
43.65	843.	ND	4.7	1160.	1.37	21.9	556.	ND	NC	194.	NC	NC
43.80	777.	ND	3.9	964.	1.37	21.6	454.	ND	NC	179.	NC	NC
43.95	747.	ND	2.9	718.	1.38	22.1	347.	ND	NC	172.	NC	NC
44.10	765.	ND	3.5	865.	1.39	23.0	435.	ND	NC	176.	NC	NC
44.25	949.	ND	6.1	1510.	1.40	23.5	774.	ND	NC	218.	NC	NC
44.40	843.	ND	6.8	1675.	1.37	21.9	803.	ND	NC	194.	NC	NC
44.55	807.	ND	7.8	1926.	1.26	15.3	645.	ND	NC	186.	NC	NC
44.70	873.	ND	8.3	2034.	1.30	17.9	797.	ND	NC	201.	NC	NC
44.85	894.	ND	8.4	2066.	1.35	20.5	927.	ND	NC	206.	NC	NC
45.00	844.	ND	9.1	2250.	1.26	15.5	763.	ND	NC	194.	NC	NC
45.15	837.	ND	9.9	2441.	1.17	9.9	529.	ND	NC	193.	NC	NC
45.30	878.	ND	10.3	2524.	1.11	6.5	356.	ND	NC	202.	NC	NC
45.45	862.	ND	7.7	1882.	1.07	4.1	168.	ND	NC	198.	NC	NC
45.60	853.	ND	8.2	2024.	1.04	2.2	99.	ND	NC	196.	NC	NC
45.75	871.	ND	10.3	2540.	1.02	1.4	76.	ND	NC	203.	NC	NC
45.90	880.	ND	9.9	2431.	1.04	2.2	114.	ND	NC	202.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 8 78
RUN NUMBER- 21
SEGMENT NUMBER- 1
WATER DEPTH- 25 TO 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	475.	ND	9.9	2428.	1.05	2.7	143.	ND	NC	109.	NC	NC
0.15	488.	ND	9.8	2420.	1.04	2.6	140.	ND	NC	112.	NC	NC
0.30	486.	ND	10.2	2510.	1.05	2.7	147.	ND	NC	112.	NC	NC
0.45	474.	ND	10.1	2479.	1.04	2.4	133.	ND	NC	109.	NC	NC
0.60	488.	ND	9.9	2425.	1.04	2.2	117.	ND	NC	112.	NC	NC
0.75	456.	ND	9.7	2384.	1.04	2.3	120.	ND	NC	105.	NC	NC
0.90	430.	ND	9.6	2369.	1.04	2.5	129.	ND	NC	99.	NC	NC
1.05	429.	ND	9.4	2324.	1.04	2.4	124.	ND	NC	99.	NC	NC
1.20	431.	ND	9.2	2254.	1.04	2.3	111.	ND	NC	99.	NC	NC
1.35	424.	ND	9.4	2301.	1.04	2.3	115.	ND	NC	97.	NC	NC
1.50	432.	ND	9.5	2329.	1.04	2.4	123.	ND	NC	99.	NC	NC
1.65	449.	ND	9.4	2315.	1.04	2.4	122.	ND	NC	103.	NC	NC
1.80	424.	ND	9.5	2340.	1.04	2.3	116.	ND	NC	98.	NC	NC
1.95	419.	ND	9.8	2411.	1.04	2.5	130.	ND	NC	96.	NC	NC
2.10	445.	ND	9.4	2324.	1.04	2.4	121.	ND	NC	102.	NC	NC
2.25	463.	ND	9.5	2339.	1.04	2.1	108.	ND	NC	107.	NC	NC
2.40	458.	ND	9.6	2365.	1.04	2.2	112.	ND	NC	105.	NC	NC
2.55	458.	ND	9.7	2373.	1.04	2.1	111.	ND	NC	105.	NC	NC
2.70	481.	ND	9.7	2382.	1.04	2.1	110.	ND	NC	111.	NC	NC
2.85	455.	ND	9.5	2338.	1.04	2.2	113.	ND	NC	105.	NC	NC
3.00	456.	ND	9.2	2262.	1.04	2.3	111.	ND	NC	105.	NC	NC
3.15	480.	ND	9.4	2301.	1.04	2.1	105.	ND	NC	110.	NC	NC
3.30	462.	ND	9.4	2310.	1.03	2.1	104.	ND	NC	106.	NC	NC
3.45	451.	ND	9.4	2301.	1.04	2.1	106.	ND	NC	104.	NC	NC
3.60	470.	ND	9.4	2315.	1.03	2.0	100.	ND	NC	108.	NC	NC
3.75	467.	ND	9.0	2223.	1.03	1.9	92.	ND	NC	107.	NC	NC
3.90	450.	ND	8.9	2186.	1.03	1.9	91.	ND	NC	104.	NC	NC
4.05	450.	ND	8.9	2196.	1.03	2.0	96.	ND	NC	104.	NC	NC
4.20	481.	ND	9.0	2217.	1.03	2.0	99.	ND	NC	111.	NC	NC
4.35	440.	ND	8.8	2152.	1.03	2.0	95.	ND	NC	101.	NC	NC
4.50	450.	ND	8.5	2093.	1.03	1.9	86.	ND	NC	103.	NC	NC
4.65	486.	ND	8.6	2105.	1.03	1.8	81.	ND	NC	112.	NC	NC
4.80	457.	ND	8.7	2129.	1.03	2.0	92.	ND	NC	105.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	445.	ND	8.6	2105.	1.03	1.8	84.	ND	NC	132.	NC	NC
5.10	467.	ND	8.5	2096.	1.03	1.7	80.	ND	NC	137.	NC	NC
5.25	460.	ND	8.5	2086.	1.03	1.7	76.	ND	NC	136.	NC	NC
5.40	438.	ND	8.4	2064.	1.03	1.6	73.	ND	NC	131.	NC	NC
5.55	442.	ND	8.4	2056.	1.03	1.9	87.	ND	NC	132.	NC	NC
5.70	478.	ND	8.5	2100.	1.03	2.0	91.	ND	NC	110.	NC	NC
5.85	448.	ND	8.3	2042.	1.03	1.8	81.	ND	NC	131.	NC	NC
6.00	437.	ND	7.7	1901.	1.04	2.2	91.	ND	NC	131.	NC	NC
6.15	462.	ND	7.9	1931.	1.05	2.8	120.	ND	NC	136.	NC	NC
6.30	463.	ND	7.6	1877.	1.07	3.9	161.	ND	NC	136.	NC	NC
6.45	435.	ND	7.3	1807.	1.07	3.8	151.	ND	NC	130.	NC	NC
6.60	474.	ND	7.6	1873.	1.06	3.6	148.	ND	NC	139.	NC	NC
6.75	534.	ND	7.6	1872.	1.09	5.2	212.	ND	NC	123.	NC	NC
6.90	539.	ND	7.4	1824.	1.10	6.0	240.	ND	NC	124.	NC	NC
7.05	530.	ND	7.9	1940.	1.12	6.8	288.	ND	NC	122.	NC	NC
7.20	579.	ND	8.2	2013.	1.11	6.3	276.	ND	NC	133.	NC	NC
7.35	547.	ND	8.4	2061.	1.09	5.0	226.	ND	NC	126.	NC	NC
7.50	577.	ND	8.0	1962.	1.11	6.5	276.	ND	NC	133.	NC	NC
7.65	697.	ND	8.1	1988.	1.16	9.4	410.	ND	NC	160.	NC	NC
7.80	708.	ND	8.8	2155.	1.11	6.4	301.	ND	NC	163.	NC	NC
7.95	682.	ND	9.6	2362.	1.08	4.7	244.	ND	NC	157.	NC	NC
8.10	696.	ND	9.7	2377.	1.07	4.2	221.	ND	NC	160.	NC	NC
8.25	719.	ND	9.7	2377.	1.06	3.8	195.	ND	NC	165.	NC	NC
8.40	692.	ND	9.7	2375.	1.10	5.7	297.	ND	NC	159.	NC	NC
8.55	690.	ND	9.5	2331.	1.08	4.8	245.	ND	NC	159.	NC	NC
8.70	715.	ND	10.0	2453.	1.05	3.1	164.	ND	NC	164.	NC	NC
8.85	699.	ND	10.3	2531.	1.03	1.7	96.	ND	NC	161.	NC	NC
9.00	684.	ND	9.9	2424.	1.04	2.4	127.	ND	NC	157.	NC	NC
9.15	702.	ND	9.7	2385.	1.04	2.1	112.	ND	NC	161.	NC	NC
9.30	698.	ND	9.8	2417.	1.03	1.9	99.	ND	NC	161.	NC	NC
9.45	686.	ND	10.0	2458.	1.03	1.8	97.	ND	NC	158.	NC	NC
9.60	691.	ND	9.9	2433.	1.02	1.4	73.	ND	NC	159.	NC	NC
9.75	715.	ND	9.8	2417.	1.03	1.6	86.	ND	NC	165.	NC	NC
9.90	680.	ND	9.6	2360.	1.02	1.4	71.	ND	NC	156.	NC	NC
10.05	688.	ND	9.4	2321.	1.02	1.0	53.	ND	NC	158.	NC	NC
10.20	692.	ND	9.8	2406.	1.02	1.3	71.	ND	NC	159.	NC	NC
10.35	688.	ND	9.4	2322.	1.04	2.4	120.	ND	NC	158.	NC	NC
10.50	686.	ND	9.1	2229.	1.03	2.0	95.	ND	NC	158.	NC	NC
10.65	703.	ND	9.0	2212.	1.04	2.5	118.	ND	NC	162.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	750.	ND	9.3	2218.	1.08	4.9	236.	ND	NC	172.	NC	NC
10.95	777.	ND	8.9	2177.	1.13	7.4	353.	ND	NC	179.	NC	NC
11.10	823.	ND	8.9	2189.	1.13	7.4	353.	ND	NC	189.	NC	NC
11.25	836.	ND	9.6	2372.	1.08	4.8	247.	ND	NC	191.	NC	NC
11.40	826.	ND	10.9	2681.	1.04	2.4	142.	ND	NC	189.	NC	NC
11.55	818.	ND	8.1	1981.	1.03	1.7	72.	ND	NC	188.	NC	NC
11.70	832.	ND	7.6	1869.	1.02	1.3	53.	ND	NC	191.	NC	NC
11.85	822.	ND	8.8	2176.	1.01	0.8	39.	ND	NC	189.	NC	NC
12.00	819.	ND	9.6	2356.	1.01	0.5	27.	ND	NC	188.	NC	NC
12.15	836.	ND	9.5	2327.	1.02	1.0	51.	ND	NC	192.	NC	NC
12.30	820.	ND	8.5	2085.	1.02	1.4	62.	ND	NC	189.	NC	NC
12.45	805.	ND	7.3	1803.	1.01	0.6	25.	ND	NC	185.	NC	NC
12.60	838.	ND	9.0	2205.	1.01	0.5	25.	ND	NC	193.	NC	NC
12.75	833.	ND	10.0	2465.	1.01	0.6	30.	ND	NC	192.	NC	NC
12.90	816.	ND	11.1	2730.	1.01	0.5	31.	ND	NC	188.	NC	NC
13.05	816.	ND	7.7	1889.	1.01	0.7	29.	ND	NC	186.	NC	NC
13.20	816.	ND	7.8	1922.	1.01	0.4	18.	ND	NC	188.	NC	NC
13.35	808.	ND	8.5	2089.	1.00	0.	0.	ND	NC	186.	NC	NC
13.50	802.	ND	9.2	2256.	1.01	0.4	18.	ND	NC	184.	NC	NC
13.65	838.	ND	9.7	2389.	1.02	0.9	49.	ND	NC	193.	NC	NC
13.80	807.	ND	9.4	2312.	1.01	0.7	36.	ND	NC	186.	NC	NC
13.95	794.	ND	9.6	2361.	1.01	0.3	16.	ND	NC	183.	NC	NC
14.10	822.	ND	7.6	1873.	1.00	0.	0.	ND	NC	183.	NC	NC
14.25	820.	ND	7.5	1837.	1.00	0.	0.	ND	NC	188.	NC	NC
14.40	823.	ND	9.9	2443.	1.01	0.6	30.	ND	NC	189.	NC	NC
14.55	830.	ND	9.5	2342.	1.00	0.	0.	ND	NC	191.	NC	NC
14.70	817.	ND	9.7	2377.	1.00	0.	0.	ND	NC	188.	NC	NC
14.85	802.	ND	8.8	2155.	1.02	1.3	62.	ND	NC	184.	NC	NC
15.00	805.	ND	8.1	1985.	1.04	2.6	115.	ND	NC	185.	NC	NC
15.15	839.	ND	9.8	2401.	1.03	1.7	90.	ND	NC	193.	NC	NC
15.30	807.	ND	9.8	2420.	1.02	1.0	50.	ND	NC	186.	NC	NC
15.45	804.	ND	10.8	2661.	1.01	0.7	41.	ND	NC	185.	NC	NC
15.60	832.	ND	8.6	2111.	1.01	0.6	27.	ND	NC	191.	NC	NC
15.75	838.	ND	6.6	1625.	1.02	1.3	45.	ND	NC	193.	NC	NC
15.90	828.	ND	9.8	2407.	1.02	1.0	54.	ND	NC	190.	NC	NC
16.05	841.	ND	10.5	2570.	1.01	0.5	31.	ND	NC	193.	NC	NC
16.20	855.	ND	10.5	2570.	1.01	0.4	21.	ND	NC	197.	NC	NC
16.35	817.	ND	8.4	2065.	1.01	0.5	23.	ND	NC	189.	NC	NC
16.50	800.	ND	7.3	1807.	1.01	0.4	16.	ND	NC	184.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	864.	ND	9.5	2328.	1.00	0.	0.	ND	NC	199.	NC	NC
16.80	844.	ND	11.2	2748.	1.00	0.	0.	ND	NC	194.	NC	NC
16.95	821.	ND	11.8	2911.	1.00	0.	0.	ND	NC	189.	NC	NC
17.10	837.	ND	9.9	2442.	1.01	0.3	16.	ND	NC	193.	NC	NC
17.25	857.	ND	8.3	2030.	1.00	0.	0.	ND	NC	197.	NC	NC
17.40	833.	ND	10.0	2454.	1.00	0.	0.	ND	NC	192.	NC	NC
17.55	824.	ND	10.0	2464.	1.00	0.	0.	ND	NC	190.	NC	NC
17.70	862.	ND	9.8	2418.	1.00	0.	0.	ND	NC	198.	NC	NC
17.85	819.	ND	10.5	2575.	1.00	0.	0.	ND	NC	188.	NC	NC
18.00	816.	ND	8.0	1974.	1.00	0.	0.	ND	NC	188.	NC	NC
18.15	865.	ND	9.4	2313.	1.01	0.3	16.	ND	NC	199.	NC	NC
18.30	848.	ND	10.9	2683.	1.01	0.5	28.	ND	NC	195.	NC	NC
18.45	814.	ND	10.6	2601.	1.01	0.6	36.	ND	NC	187.	NC	NC
18.60	841.	ND	9.4	2317.	1.00	0.	0.	ND	NC	193.	NC	NC
18.75	868.	ND	8.5	2091.	1.00	0.	0.	ND	NC	200.	NC	NC
18.90	837.	ND	9.0	2224.	1.00	0.	0.	ND	NC	193.	NC	NC
19.05	826.	ND	10.3	2537.	1.01	0.4	22.	ND	NC	190.	NC	NC
19.20	872.	ND	10.7	2641.	1.01	0.4	23.	ND	NC	201.	NC	NC
19.35	821.	ND	10.3	2540.	1.01	0.3	18.	ND	NC	189.	NC	NC
19.50	818.	ND	8.0	1960.	1.01	0.4	16.	ND	NC	188.	NC	NC
19.65	862.	ND	9.4	2319.	1.01	0.5	27.	ND	NC	198.	NC	NC
19.80	848.	ND	11.5	2823.	1.01	0.4	24.	ND	NC	195.	NC	NC
19.95	820.	ND	9.4	2306.	1.00	0.	0.	ND	NC	189.	NC	NC
20.10	842.	ND	9.5	2348.	1.00	0.	0.	ND	NC	194.	NC	NC
20.25	875.	ND	9.8	2403.	1.00	0.	0.	ND	NC	201.	NC	NC
20.40	827.	ND	10.3	2538.	1.01	0.3	18.	ND	NC	190.	NC	NC
20.55	821.	ND	10.2	2502.	1.00	0.	0.	ND	NC	189.	NC	NC
20.70	859.	ND	9.8	2417.	1.00	0.	0.	ND	NC	198.	NC	NC
20.85	824.	ND	11.2	2757.	1.00	0.	0.	ND	NC	190.	NC	NC
21.00	833.	ND	9.8	2403.	1.00	0.	0.	ND	NC	191.	NC	NC
21.15	854.	ND	10.8	2655.	1.01	0.4	22.	ND	NC	196.	NC	NC
21.30	844.	ND	10.9	2688.	1.00	0.	0.	ND	NC	194.	NC	NC
21.45	825.	ND	9.9	2431.	1.00	0.	0.	ND	NC	190.	NC	NC
21.60	827.	ND	9.3	2281.	1.00	0.	0.	ND	NC	190.	NC	NC
21.75	835.	ND	9.1	2232.	1.00	0.	0.	ND	NC	192.	NC	NC
21.90	826.	ND	8.5	2096.	1.00	0.	0.	ND	NC	190.	NC	NC
22.05	839.	ND	10.4	2566.	1.00	0.	0.	ND	NC	193.	NC	NC
22.20	814.	ND	10.6	2607.	1.00	0.	0.	ND	NC	187.	NC	NC
22.35	724.	ND	9.2	2256.	1.00	0.	0.	ND	NC	167.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	695.	ND	5.5	1361.	1.00	0.	0.	ND	NC	160.	NC	NC
22.65	705.	ND	6.2	1520.	1.00	0.	0.	ND	NC	162.	NC	NC
22.80	713.	ND	8.2	2010.	1.00	0.	0.	ND	NC	164.	NC	NC
22.95	710.	ND	9.3	2275.	1.01	0.3	16.	ND	NC	163.	NC	NC
23.10	718.	ND	9.2	2254.	1.02	1.0	49.	ND	NC	165.	NC	NC
23.25	699.	ND	8.8	2153.	1.07	4.3	204.	ND	NC	161.	NC	NC
23.40	695.	ND	8.5	2099.	1.09	5.1	236.	ND	NC	160.	NC	NC
23.55	720.	ND	8.9	2197.	1.07	3.9	188.	ND	NC	165.	NC	NC
23.70	709.	ND	9.4	2314.	1.04	2.3	117.	ND	NC	163.	NC	NC
23.85	692.	ND	9.7	2393.	1.04	2.3	119.	ND	NC	159.	NC	NC
24.00	705.	ND	9.3	2298.	1.04	2.3	113.	ND	NC	162.	NC	NC
24.15	719.	ND	9.9	2438.	1.02	0.9	51.	ND	NC	165.	NC	NC
24.30	711.	ND	10.2	2504.	1.02	0.9	49.	ND	NC	163.	NC	NC
24.45	699.	ND	9.8	2422.	1.01	0.6	34.	ND	NC	161.	NC	NC
24.60	716.	ND	8.7	2129.	1.05	3.2	150.	ND	NC	165.	NC	NC
24.75	695.	ND	9.0	2212.	1.03	1.6	80.	ND	NC	160.	NC	NC
24.90	707.	ND	9.4	2300.	1.02	1.1	54.	ND	NC	163.	NC	NC
25.05	717.	ND	9.5	2325.	1.02	1.3	68.	ND	NC	165.	NC	NC
25.20	660.	ND	7.7	1904.	1.04	2.1	88.	ND	NC	152.	NC	NC
25.35	635.	ND	5.2	1285.	1.07	4.2	118.	ND	NC	146.	NC	NC
25.50	686.	ND	6.0	1484.	1.21	12.5	407.	ND	NC	158.	NC	NC
25.65	705.	ND	6.9	1694.	1.14	8.0	297.	ND	NC	162.	NC	NC
25.80	689.	ND	7.5	1846.	1.06	3.5	139.	ND	NC	158.	NC	NC
25.95	694.	ND	7.8	1915.	1.05	3.1	128.	ND	NC	160.	NC	NC
26.10	706.	ND	7.2	1778.	1.18	10.9	422.	ND	NC	162.	NC	NC
26.25	675.	ND	6.4	1579.	1.30	17.6	608.	ND	NC	155.	NC	NC
26.40	675.	ND	7.0	1726.	1.31	18.2	688.	ND	NC	155.	NC	NC
26.55	703.	ND	8.6	2121.	1.26	15.2	703.	ND	NC	162.	NC	NC
26.70	685.	ND	8.6	2114.	1.30	17.5	810.	ND	NC	158.	NC	NC
26.85	660.	ND	7.3	1798.	1.34	20.3	785.	ND	NC	152.	NC	NC
27.00	689.	ND	6.3	1538.	1.38	22.1	744.	ND	NC	158.	NC	NC
27.15	739.	ND	7.5	1848.	1.33	19.1	773.	ND	NC	170.	NC	NC
27.30	709.	ND	8.6	2117.	1.28	16.5	765.	ND	NC	163.	NC	NC
27.45	767.	ND	8.6	2105.	1.26	15.5	713.	ND	NC	176.	NC	NC
27.60	849.	ND	8.7	2148.	1.29	17.0	798.	ND	NC	195.	NC	NC
27.75	859.	ND	8.9	2179.	1.35	20.5	976.	ND	NC	198.	NC	NC
27.90	878.	ND	9.3	2276.	1.28	16.4	818.	ND	NC	202.	NC	NC
28.05	903.	ND	9.6	2351.	1.25	14.8	759.	ND	NC	208.	NC	NC
28.20	896.	ND	9.6	2356.	1.16	9.7	497.	ND	NC	206.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	868.	ND	8.9	2185.	1.11	6.7	319.	ND	NC	200.	NC	NC
28.50	871.	ND	8.0	1975.	1.07	4.0	171.	ND	NC	200.	NC	NC
28.65	926.	ND	9.1	2247.	1.04	2.2	106.	ND	NC	213.	NC	NC
28.80	885.	ND	10.3	2538.	1.03	1.9	108.	ND	NC	204.	NC	NC
28.95	857.	ND	10.5	2588.	1.04	2.3	130.	ND	NC	197.	NC	NC
29.10	901.	ND	9.6	2401.	1.03	1.7	89.	ND	NC	207.	NC	NC
29.25	898.	ND	10.2	2515.	1.02	1.0	56.	ND	NC	207.	NC	NC
29.40	872.	ND	11.4	2799.	1.01	0.8	48.	ND	NC	201.	NC	NC
29.55	883.	ND	10.7	2629.	1.01	0.5	31.	ND	NC	203.	NC	NC
29.70	922.	ND	10.6	2612.	1.01	0.5	31.	ND	NC	212.	NC	NC
29.85	881.	ND	11.5	2838.	1.01	0.5	33.	ND	NC	203.	NC	NC
30.00	851.	ND	10.8	2669.	1.01	0.5	30.	ND	NC	196.	NC	NC
30.15	928.	ND	10.2	2505.	1.01	0.5	25.	ND	NC	213.	NC	NC
30.30	882.	ND	11.8	2909.	1.01	0.4	27.	ND	NC	203.	NC	NC
30.45	859.	ND	12.2	3003.	1.01	0.4	26.	ND	NC	198.	NC	NC
30.60	897.	ND	10.5	2589.	1.01	0.4	22.	ND	NC	206.	NC	NC
30.75	891.	ND	12.0	2961.	1.01	0.4	25.	ND	NC	205.	NC	NC
30.90	843.	ND	11.6	2843.	1.01	0.4	24.	ND	NC	194.	NC	NC
31.05	808.	ND	11.2	2755.	1.01	0.4	23.	ND	NC	186.	NC	NC
31.20	765.	ND	11.6	2852.	1.01	0.4	28.	ND	NC	176.	NC	NC
31.35	699.	ND	8.9	2189.	1.01	0.5	22.	ND	NC	161.	NC	NC
31.50	700.	ND	8.6	2124.	1.01	0.4	20.	ND	NC	161.	NC	NC
31.65	733.	ND	9.7	2381.	1.01	0.4	21.	ND	NC	169.	NC	NC
31.80	716.	ND	9.7	2389.	1.01	0.4	21.	ND	NC	165.	NC	NC
31.95	703.	ND	9.6	2354.	1.01	0.4	20.	ND	NC	162.	NC	NC
32.10	720.	ND	9.9	2432.	1.01	0.4	21.	ND	NC	165.	NC	NC
32.25	713.	ND	10.1	2486.	1.01	0.4	21.	ND	NC	164.	NC	NC
32.40	710.	ND	9.7	2389.	1.01	0.7	36.	ND	NC	163.	NC	NC
32.55	717.	ND	9.7	2386.	1.02	1.3	66.	ND	NC	165.	NC	NC
32.70	721.	ND	9.8	2413.	1.02	1.0	52.	ND	NC	166.	NC	NC
32.85	700.	ND	8.4	2077.	1.04	2.4	107.	ND	NC	161.	NC	NC
33.00	702.	ND	6.9	1690.	1.10	5.7	210.	ND	NC	161.	NC	NC
33.15	716.	ND	7.7	1905.	1.20	11.5	480.	ND	NC	165.	NC	NC
33.30	697.	ND	7.8	1912.	1.18	10.4	436.	ND	NC	160.	NC	NC
33.45	737.	ND	8.0	1975.	1.15	9.0	387.	ND	NC	169.	NC	NC
33.60	752.	ND	7.7	1902.	1.15	8.9	371.	ND	NC	173.	NC	NC
33.75	751.	ND	7.2	1775.	1.25	14.7	571.	ND	NC	173.	NC	NC
33.90	757.	ND	6.6	1617.	1.36	20.9	738.	ND	NC	174.	NC	NC
34.05	799.	ND	8.1	2001.	1.38	22.1	966.	ND	NC	184.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	824.	ND	8.5	2084.	1.40	23.7	1077.	ND	NC	190.	NC	NC
34.35	870.	ND	7.4	1823.	1.42	24.5	977.	ND	NC	200.	NC	NC
34.50	907.	ND	8.0	1970.	1.42	24.9	1070.	ND	NC	209.	NC	NC
34.65	909.	ND	9.9	2435.	1.38	22.2	1182.	ND	NC	209.	NC	NC
34.80	898.	ND	10.1	2494.	1.27	15.9	868.	ND	NC	207.	NC	NC
34.95	924.	ND	9.0	2218.	1.23	13.5	656.	ND	NC	213.	NC	NC
35.10	930.	ND	9.0	2205.	1.14	8.0	388.	ND	NC	214.	NC	NC
35.25	927.	ND	9.5	2326.	1.07	4.2	212.	ND	NC	213.	NC	NC
35.40	921.	ND	10.4	2565.	1.04	2.2	124.	ND	NC	212.	NC	NC
35.55	914.	ND	10.0	2465.	1.04	2.3	124.	ND	NC	210.	NC	NC
35.70	916.	ND	9.6	2358.	1.04	2.4	125.	ND	NC	211.	NC	NC
35.85	929.	ND	9.0	2206.	1.03	1.5	74.	ND	NC	214.	NC	NC
36.00	929.	ND	9.3	2294.	1.02	1.2	58.	ND	NC	214.	NC	NC
36.15	926.	ND	9.6	2357.	1.10	6.1	312.	ND	NC	212.	NC	NC
36.30	912.	ND	9.4	2317.	1.15	9.1	461.	ND	NC	210.	NC	NC
36.45	942.	ND	9.0	2206.	1.24	13.9	672.	ND	NC	217.	NC	NC
36.60	1049.	ND	8.9	2180.	1.32	19.0	903.	ND	NC	241.	NC	NC
36.75	1090.	ND	10.1	2492.	1.28	16.5	897.	ND	NC	251.	NC	NC
36.90	1092.	ND	9.9	2442.	1.19	11.2	596.	ND	NC	251.	NC	NC
37.05	1170.	ND	6.6	1611.	1.21	12.2	428.	ND	NC	269.	NC	NC
37.20	1196.	ND	5.6	1377.	1.23	13.8	414.	ND	NC	275.	NC	NC
37.35	1191.	ND	8.3	2034.	1.10	5.7	254.	ND	NC	274.	NC	NC
37.50	1151.	ND	10.8	2644.	1.08	4.4	256.	ND	NC	265.	NC	NC
37.65	1160.	ND	9.6	2370.	1.06	3.5	182.	ND	NC	267.	NC	NC
37.80	1152.	ND	9.9	2186.	1.04	2.4	116.	ND	NC	265.	NC	NC
37.95	1159.	ND	10.6	2609.	1.03	1.7	99.	ND	NC	267.	NC	NC
38.10	1166.	ND	11.4	2795.	1.03	2.0	120.	ND	NC	268.	NC	NC
38.25	1162.	ND	11.6	2857.	1.03	1.8	111.	ND	NC	267.	NC	NC
38.40	1150.	ND	12.7	3119.	1.02	1.3	87.	ND	NC	264.	NC	NC
38.55	1176.	ND	9.3	2290.	1.02	1.0	48.	ND	NC	271.	NC	NC
38.70	1179.	ND	10.2	2501.	1.02	1.2	56.	ND	NC	271.	NC	NC
38.85	1138.	ND	12.4	3042.	1.05	2.7	177.	ND	NC	262.	NC	NC
39.00	1151.	ND	11.7	2865.	1.02	1.3	82.	ND	NC	265.	NC	NC
39.15	1158.	ND	10.4	2548.	1.02	1.0	53.	ND	NC	266.	NC	NC
39.30	1137.	ND	11.3	2779.	1.01	0.8	47.	ND	NC	262.	NC	NC
39.45	1149.	ND	10.9	2674.	1.01	0.6	37.	ND	NC	264.	NC	NC
39.60	1176.	ND	11.0	2698.	1.03	1.9	113.	ND	NC	270.	NC	NC
39.75	1178.	ND	12.5	3072.	1.04	2.1	139.	ND	NC	271.	NC	NC
39.90	1122.	ND	13.0	3209.	1.01	0.8	54.	ND	NC	258.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1159.	ND	11.0	2705.	1.01	0.6	37.	ND	NC	266.	NC	NC
40.20	1165.	ND	12.5	3062.	1.01	0.5	33.	ND	NC	268.	NC	NC
40.35	1125.	ND	14.1	3466.	1.01	0.5	36.	ND	NC	259.	NC	NC
40.50	1077.	ND	13.0	3199.	1.01	0.5	37.	ND	NC	248.	NC	NC
40.65	995.	ND	11.1	2718.	1.01	0.6	36.	ND	NC	229.	NC	NC
40.80	899.	ND	10.8	2654.	1.01	0.5	31.	ND	NC	207.	NC	NC
40.95	917.	ND	10.9	2680.	1.01	0.5	28.	ND	NC	211.	NC	NC
41.10	963.	ND	10.4	2570.	1.01	0.4	21.	ND	NC	221.	NC	NC
41.25	928.	ND	11.5	2839.	1.01	0.3	19.	ND	NC	213.	NC	NC
41.40	896.	ND	12.0	2953.	1.01	0.3	22.	ND	NC	206.	NC	NC
41.55	947.	ND	10.6	2599.	1.01	0.3	18.	ND	NC	218.	NC	NC
41.70	916.	ND	11.9	2926.	1.00	0.	0.	ND	NC	211.	NC	NC
41.85	892.	ND	10.6	2595.	1.00	0.	0.	ND	NC	205.	NC	NC
42.00	922.	ND	9.3	2287.	1.01	0.6	28.	ND	NC	212.	NC	NC
42.15	932.	ND	11.5	2834.	1.03	1.5	95.	ND	NC	214.	NC	NC
42.30	907.	ND	11.5	2837.	1.02	1.2	77.	ND	NC	209.	NC	NC
42.45	892.	ND	10.7	2640.	1.02	0.9	54.	ND	NC	205.	NC	NC
42.60	945.	ND	10.3	2535.	1.02	1.2	68.	ND	NC	217.	NC	NC
42.75	912.	ND	10.0	2459.	1.01	0.6	31.	ND	NC	210.	NC	NC
42.90	895.	ND	9.6	2362.	1.02	1.4	73.	ND	NC	206.	NC	NC
43.05	870.	ND	10.3	2541.	1.03	1.8	101.	ND	NC	200.	NC	NC
43.20	839.	ND	10.9	2677.	1.01	0.8	48.	ND	NC	193.	NC	NC
43.35	803.	ND	11.1	2729.	1.01	0.7	42.	ND	NC	185.	NC	NC
43.50	801.	ND	10.1	2495.	1.01	0.7	37.	ND	NC	184.	NC	NC
43.65	820.	ND	6.9	1703.	1.03	1.8	66.	ND	NC	189.	NC	NC
43.80	803.	ND	6.2	1531.	1.04	2.4	79.	ND	NC	185.	NC	NC
43.95	817.	ND	8.1	1999.	1.03	1.5	67.	ND	NC	188.	NC	NC
44.10	854.	ND	9.9	2444.	1.04	2.3	123.	ND	NC	196.	NC	NC
44.25	805.	ND	11.0	2705.	1.06	3.7	217.	ND	NC	185.	NC	NC
44.40	792.	ND	4.9	1196.	1.03	1.9	49.	ND	NC	182.	NC	NC
44.55	816.	ND	5.2	1282.	1.13	7.7	215.	ND	NC	188.	NC	NC
44.70	849.	ND	6.9	1686.	1.07	4.3	159.	ND	NC	195.	NC	NC
44.85	818.	ND	9.1	2247.	1.04	2.3	113.	ND	NC	188.	NC	NC
45.00	805.	ND	9.6	2351.	1.06	3.4	176.	ND	NC	185.	NC	NC
45.15	773.	ND	7.7	1906.	1.07	4.3	179.	ND	NC	178.	NC	NC
45.30	788.	ND	6.1	1499.	1.07	4.2	137.	ND	NC	181.	NC	NC
45.45	844.	ND	6.4	1566.	1.18	10.7	367.	ND	NC	194.	NC	NC
45.60	852.	ND	9.3	2282.	1.06	3.3	164.	ND	NC	196.	NC	NC
45.75	839.	ND	10.8	2661.	1.03	1.9	113.	ND	NC	193.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	832.	ND	9.3	2280.	1.13	7.4	370.	ND	NC	191.	NC	NC
46.05	835.	ND	7.7	1883.	1.14	8.2	336.	ND	NC	192.	NC	NC
46.20	832.	ND	9.0	2223.	1.05	2.9	141.	ND	NC	191.	NC	NC
46.35	822.	ND	10.8	2649.	1.04	2.2	125.	ND	NC	189.	NC	NC
46.50	835.	ND	12.3	3013.	1.03	1.6	108.	ND	NC	192.	NC	NC
46.65	811.	ND	8.1	1984.	1.02	1.3	57.	ND	NC	187.	NC	NC
46.80	819.	ND	8.6	2125.	1.02	1.0	45.	ND	NC	188.	NC	NC
46.95	837.	ND	8.8	2170.	1.01	0.7	34.	ND	NC	193.	NC	NC
47.10	835.	ND	10.7	2627.	1.01	0.7	38.	ND	NC	192.	NC	NC
47.25	815.	ND	11.6	2856.	1.01	0.7	44.	ND	NC	188.	NC	NC
47.40	813.	ND	12.2	3006.	1.01	0.8	52.	ND	NC	187.	NC	NC
47.55	820.	ND	9.9	2444.	1.01	0.6	34.	ND	NC	189.	NC	NC
47.70	750.	ND	8.0	1965.	1.01	0.6	25.	ND	NC	173.	NC	NC
47.85	732.	ND	9.3	2284.	1.01	0.5	27.	ND	NC	168.	NC	NC
48.00	762.	ND	10.6	2610.	1.01	0.5	29.	ND	NC	175.	NC	NC
48.15	740.	ND	10.3	2524.	1.01	0.6	31.	ND	NC	170.	NC	NC
48.30	730.	ND	8.1	2002.	1.01	0.5	22.	ND	NC	168.	NC	NC
48.45	756.	ND	10.1	2473.	1.01	0.6	33.	ND	NC	174.	NC	NC
48.60	744.	ND	11.3	2770.	1.02	0.9	53.	ND	NC	171.	NC	NC
48.75	730.	ND	12.1	2987.	1.01	0.7	46.	ND	NC	168.	NC	NC
48.90	739.	ND	10.1	2477.	1.01	0.5	29.	ND	NC	170.	NC	NC
49.05	767.	ND	9.4	2305.	1.01	0.4	18.	ND	NC	176.	NC	NC
49.20	769.	ND	10.3	2538.	1.01	0.4	20.	ND	NC	175.	NC	NC
49.35	731.	ND	10.9	2682.	1.01	0.4	25.	ND	NC	168.	NC	NC
49.50	760.	ND	11.0	2700.	1.01	0.6	33.	ND	NC	175.	NC	NC
49.65	719.	ND	11.3	2768.	1.01	0.4	25.	ND	NC	165.	NC	NC
49.80	724.	ND	10.0	2449.	1.01	0.3	16.	ND	NC	167.	NC	NC
49.95	742.	ND	10.2	2505.	1.01	0.5	25.	ND	NC	171.	NC	NC
50.10	755.	ND	11.5	2820.	1.01	0.5	32.	ND	NC	174.	NC	NC
50.25	730.	ND	11.2	2755.	1.01	0.5	28.	ND	NC	168.	NC	NC
50.40	732.	ND	11.0	2702.	1.01	0.4	23.	ND	NC	168.	NC	NC
50.55	760.	ND	11.5	2818.	1.01	0.4	23.	ND	NC	175.	NC	NC
50.70	727.	ND	11.8	2910.	1.01	0.4	22.	ND	NC	167.	NC	NC
50.85	728.	ND	10.8	2649.	1.00	0.	0.	ND	NC	167.	NC	NC
51.00	763.	ND	11.3	2771.	1.00	0.	0.	ND	NC	175.	NC	NC
51.15	724.	ND	11.1	2730.	1.01	0.4	27.	ND	NC	167.	NC	NC
51.30	720.	ND	9.0	2214.	1.01	0.5	26.	ND	NC	166.	NC	NC
51.45	744.	ND	8.7	2142.	1.01	0.6	27.	ND	NC	171.	NC	NC
51.60	753.	ND	10.1	2490.	1.01	0.5	27.	ND	NC	173.	NC	NC

RUN NUMBER- 21
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	734.	ND	10.1	2482.	1.01	0.6	33.	ND	NC	169.	NC	NC
51.90	721.	ND	9.3	2297.	1.03	2.1	103.	ND	NC	166.	NC	NC
52.05	758.	ND	8.7	2150.	1.06	3.7	176.	ND	NC	174.	NC	NC
52.20	733.	ND	9.1	2234.	1.10	6.0	295.	ND	NC	169.	NC	NC
52.35	728.	ND	9.3	2293.	1.11	6.8	302.	ND	NC	167.	NC	NC
52.50	761.	ND	9.4	2324.	1.12	6.8	347.	ND	NC	175.	NC	NC
52.65	698.	ND	9.3	2290.	1.09	5.6	279.	ND	NC	161.	NC	NC
52.80	682.	ND	8.4	2069.	1.18	10.4	472.	ND	NC	157.	NC	NC
52.95	715.	ND	6.9	1703.	1.31	18.1	674.	ND	NC	164.	NC	NC
53.10	730.	ND	7.7	1898.	1.30	17.8	737.	ND	NC	168.	NC	NC
53.25	716.	ND	9.5	2332.	1.27	16.2	823.	ND	NC	165.	NC	NC
53.40	759.	ND	9.2	2267.	1.24	14.2	706.	ND	NC	175.	NC	NC
53.55	805.	ND	8.7	2134.	1.23	13.3	619.	ND	NC	185.	NC	NC
53.70	847.	ND	7.3	1785.	1.33	19.4	755.	ND	NC	195.	NC	NC
53.85	887.	ND	9.3	2277.	1.35	20.3	1009.	ND	NC	204.	NC	NC
54.00	928.	ND	10.1	2476.	1.30	17.4	944.	ND	NC	213.	NC	NC
54.15	912.	ND	10.4	2548.	1.15	8.8	491.	ND	NC	210.	NC	NC
54.30	735.	ND	8.1	1987.	1.07	4.1	178.	ND	NC	169.	NC	NC
54.45	740.	ND	6.2	1518.	1.08	4.9	161.	ND	NC	170.	NC	NC
54.60	796.	ND	8.3	2032.	1.06	3.7	163.	ND	NC	183.	NC	NC
54.75	740.	ND	10.5	2574.	1.03	1.9	105.	ND	NC	170.	NC	NC
54.90	743.	ND	10.1	2486.	1.03	1.6	87.	ND	NC	171.	NC	NC
55.05	759.	ND	8.5	2092.	1.03	1.8	80.	ND	NC	174.	NC	NC
55.20	746.	ND	8.3	2053.	1.02	1.1	48.	ND	NC	172.	NC	NC
55.35	748.	ND	9.6	2351.	1.01	0.7	38.	ND	NC	172.	NC	NC
55.50	757.	ND	10.9	2683.	1.01	0.6	38.	ND	NC	174.	NC	NC
55.65	748.	ND	12.0	2945.	1.01	0.5	32.	ND	NC	172.	NC	NC
55.80	735.	ND	10.4	2566.	1.01	0.4	21.	ND	NC	169.	NC	NC
55.95	757.	ND	8.4	2074.	1.01	0.4	18.	ND	NC	174.	NC	NC
56.10	765.	ND	10.7	2628.	1.01	0.5	27.	ND	NC	176.	NC	NC
56.25	734.	ND	12.1	2968.	1.01	0.5	33.	ND	NC	169.	NC	NC
56.40	742.	ND	9.9	2423.	1.00	0.	0.	ND	NC	171.	NC	NC
56.55	742.	ND	10.1	2485.	1.00	0.	0.	ND	NC	171.	NC	NC
56.70	744.	ND	10.8	2667.	1.01	0.3	18.	ND	NC	171.	NC	NC
56.85	754.	ND	11.3	2789.	1.01	0.5	32.	ND	NC	173.	NC	NC
57.00	743.	ND	11.1	2732.	1.00	0.	0.	ND	NC	171.	NC	NC
57.15	732.	ND	11.4	2814.	1.00	0.	0.	ND	NC	168.	NC	NC
57.30	730.	ND	11.6	2850.	1.00	0.	0.	ND	NC	168.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 11 78
RUN NUMBER- 22
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	827.	ND	10.8	2660.	1.01	0.3	18.	ND	NC	190.	NC	NC
0.15	611.	ND	12.1	2984.	1.00	0.	0.	ND	NC	187.	NC	NC
0.30	790.	ND	13.1	3211.	1.01	0.4	28.	ND	NC	182.	NC	NC
0.45	775.	ND	11.8	2891.	1.01	0.5	29.	ND	NC	178.	NC	NC
0.60	816.	ND	11.5	2830.	1.01	0.3	20.	ND	NC	188.	NC	NC
0.75	783.	ND	12.1	2975.	1.01	0.3	20.	ND	NC	180.	NC	NC
0.90	769.	ND	11.3	2781.	1.01	0.3	19.	ND	NC	177.	NC	NC
1.05	813.	ND	10.7	2635.	1.01	0.4	21.	ND	NC	187.	NC	NC
1.20	804.	ND	12.2	3005.	1.00	0.	0.	ND	NC	185.	NC	NC
1.35	779.	ND	12.3	3019.	1.00	0.	0.	ND	NC	179.	NC	NC
1.50	799.	ND	10.8	2659.	1.00	0.	0.	ND	NC	184.	NC	NC
1.65	819.	ND	11.8	2891.	1.00	0.	0.	ND	NC	188.	NC	NC
1.80	808.	ND	12.8	3159.	1.01	0.4	27.	ND	NC	186.	NC	NC
1.95	797.	ND	11.7	2881.	1.01	0.4	23.	ND	NC	183.	NC	NC
2.10	802.	ND	11.1	2726.	1.00	0.	0.	ND	NC	185.	NC	NC
2.25	786.	ND	11.4	2795.	1.00	0.	0.	ND	NC	181.	NC	NC
2.40	776.	ND	12.3	3014.	1.00	0.	0.	ND	NC	178.	NC	NC
2.55	809.	ND	11.2	2752.	1.00	0.	0.	ND	NC	186.	NC	NC
2.70	798.	ND	10.8	2657.	1.00	0.	0.	ND	NC	183.	NC	NC
2.85	793.	ND	11.1	2721.	1.01	0.3	20.	ND	NC	182.	NC	NC
3.00	816.	ND	11.0	2693.	1.01	0.7	42.	ND	NC	186.	NC	NC
3.15	809.	ND	10.8	2663.	1.01	0.4	23.	ND	NC	186.	NC	NC
3.30	793.	ND	12.1	2982.	1.00	0.	0.	ND	NC	182.	NC	NC
3.45	788.	ND	11.8	2906.	1.00	0.	0.	ND	NC	181.	NC	NC
3.60	817.	ND	10.7	2630.	1.00	0.	0.	ND	NC	188.	NC	NC
3.75	798.	ND	10.4	2547.	1.00	0.	0.	ND	NC	184.	NC	NC
3.90	799.	ND	12.7	3111.	1.01	0.4	24.	ND	NC	184.	NC	NC
4.05	808.	ND	11.5	2837.	1.00	0.	0.	ND	NC	186.	NC	NC
4.20	810.	ND	11.3	2790.	1.00	0.	0.	ND	NC	186.	NC	NC
4.35	803.	ND	12.2	3005.	1.00	0.	0.	ND	NC	185.	NC	NC
4.50	781.	ND	12.3	3034.	1.14	8.0	532.	ND	NC	180.	NC	NC
4.65	807.	ND	11.4	2796.	1.21	12.4	755.	ND	NC	186.	NC	NC
4.80	783.	ND	11.8	2894.	1.09	5.6	351.	ND	NC	180.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	715.	ND	12.5	3066.	1.05	2.7	181.	ND	NC	164.	NC	NC
5.10	723.	ND	11.6	2845.	1.03	1.7	103.	ND	NC	166.	NC	NC
5.25	728.	ND	10.5	2591.	1.02	1.0	57.	ND	NC	167.	NC	NC
5.40	672.	ND	11.0	2706.	1.01	0.6	33.	ND	NC	154.	NC	NC
5.55	680.	ND	10.5	2588.	1.01	0.3	19.	ND	NC	156.	NC	NC
5.70	718.	ND	9.8	2400.	1.01	0.3	18.	ND	NC	165.	NC	NC
5.85	695.	ND	10.8	2663.	1.01	0.4	24.	ND	NC	160.	NC	NC
6.00	678.	ND	11.4	2809.	1.00	0.	0.	ND	NC	156.	NC	NC
6.15	679.	ND	10.2	2500.	1.00	0.	0.	ND	NC	156.	NC	NC
6.30	713.	ND	10.0	2471.	1.00	0.	0.	ND	NC	164.	NC	NC
6.45	694.	ND	11.2	2752.	1.00	0.	0.	ND	NC	163.	NC	NC
6.60	659.	ND	11.5	2824.	1.01	0.4	27.	ND	NC	152.	NC	NC
6.75	697.	ND	8.7	2136.	1.01	0.4	19.	ND	NC	160.	NC	NC
6.90	690.	ND	10.6	2596.	1.00	0.	0.	ND	NC	159.	NC	NC
7.05	681.	ND	11.6	2858.	1.00	0.	0.	ND	NC	157.	NC	NC
7.20	691.	ND	10.9	2690.	1.01	0.5	32.	ND	NC	159.	NC	NC
7.35	695.	ND	11.6	2849.	1.01	0.4	24.	ND	NC	160.	NC	NC
7.50	676.	ND	11.4	2801.	1.01	0.4	24.	ND	NC	156.	NC	NC
7.65	671.	ND	11.0	2700.	1.01	0.3	19.	ND	NC	154.	NC	NC
7.80	706.	ND	10.8	2653.	1.03	2.0	117.	ND	NC	162.	NC	NC
7.95	686.	ND	11.2	2756.	1.04	2.2	131.	ND	NC	158.	NC	NC
8.10	681.	ND	11.1	2721.	1.02	1.0	62.	ND	NC	157.	NC	NC
8.25	722.	ND	10.1	2479.	1.02	1.3	70.	ND	NC	166.	NC	NC
8.40	729.	ND	10.8	2653.	1.02	0.9	53.	ND	NC	168.	NC	NC
8.55	717.	ND	11.6	2841.	1.04	2.2	134.	ND	NC	165.	NC	NC
8.70	725.	ND	10.5	2575.	1.01	0.7	38.	ND	NC	167.	NC	NC
8.85	746.	ND	9.3	2293.	1.01	0.4	19.	ND	NC	170.	NC	NC
9.00	716.	ND	10.7	2642.	1.00	0.	0.	ND	NC	165.	NC	NC
9.15	715.	ND	11.3	2775.	1.01	0.3	18.	ND	NC	164.	NC	NC
9.30	738.	ND	9.8	2398.	1.01	0.3	18.	ND	NC	170.	NC	NC
9.45	706.	ND	9.2	2270.	1.02	1.3	62.	ND	NC	162.	NC	NC
9.60	710.	ND	7.3	1784.	1.18	10.7	419.	ND	NC	163.	NC	NC
9.75	732.	ND	8.6	2121.	1.12	7.2	332.	ND	NC	168.	NC	NC
9.90	740.	ND	9.7	2386.	1.05	3.1	163.	ND	NC	170.	NC	NC
10.05	723.	ND	10.6	2614.	1.03	2.0	111.	ND	NC	166.	NC	NC
10.20	736.	ND	10.0	2454.	1.05	2.9	153.	ND	NC	169.	NC	NC
10.35	761.	ND	7.3	1800.	1.03	1.8	70.	ND	NC	175.	NC	NC
10.50	776.	ND	9.1	2234.	1.02	1.0	51.	ND	NC	179.	NC	NC
10.65	771.	ND	10.9	2669.	1.02	1.0	56.	ND	NC	177.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	764.	ND	10.4	2552.	1.02	1.2	69.	ND	NC	176.	NC	NC
10.95	770.	ND	8.4	2055.	1.02	1.3	60.	ND	NC	177.	NC	NC
11.10	769.	ND	9.1	2232.	1.01	0.9	42.	ND	NC	177.	NC	NC
11.25	765.	ND	10.1	2481.	1.01	0.5	27.	ND	NC	176.	NC	NC
11.40	775.	ND	10.5	2587.	1.01	0.8	44.	ND	NC	178.	NC	NC
11.55	783.	ND	10.8	2662.	1.01	0.4	25.	ND	NC	180.	NC	NC
11.70	747.	ND	10.1	2492.	1.00	0.	0.	ND	NC	172.	NC	NC
11.85	790.	ND	8.7	2138.	1.01	0.4	20.	ND	NC	182.	NC	NC
12.00	796.	ND	10.5	2572.	1.03	1.9	108.	ND	NC	183.	NC	NC
12.15	746.	ND	10.3	2525.	1.03	1.9	106.	ND	NC	172.	NC	NC
12.30	748.	ND	8.1	1985.	1.01	0.4	19.	ND	NC	172.	NC	NC
12.45	773.	ND	9.2	2273.	1.01	0.7	34.	ND	NC	178.	NC	NC
12.60	789.	ND	9.7	2377.	1.08	4.8	248.	ND	NC	181.	NC	NC
12.75	734.	ND	10.2	2511.	1.05	2.7	151.	ND	NC	169.	NC	NC
12.90	759.	ND	8.4	2072.	1.04	2.1	94.	ND	NC	175.	NC	NC
13.05	795.	ND	8.4	2054.	1.02	1.2	53.	ND	NC	183.	NC	NC
13.20	779.	ND	9.2	2257.	1.01	0.7	34.	ND	NC	179.	NC	NC
13.35	778.	ND	9.9	2430.	1.05	2.9	152.	ND	NC	179.	NC	NC
13.50	776.	ND	10.1	2461.	1.05	3.2	172.	ND	NC	179.	NC	NC
13.65	738.	ND	9.8	2420.	1.04	2.3	122.	ND	NC	170.	NC	NC
13.80	754.	ND	7.7	1902.	1.02	1.3	54.	ND	NC	173.	NC	NC
13.95	791.	ND	9.1	2244.	1.04	2.4	116.	ND	NC	182.	NC	NC
14.10	779.	ND	10.1	2490.	1.08	4.4	242.	ND	NC	179.	NC	NC
14.25	753.	ND	10.8	2648.	1.03	1.5	87.	ND	NC	173.	NC	NC
14.40	753.	ND	10.3	2528.	1.02	1.0	58.	ND	NC	173.	NC	NC
14.55	789.	ND	9.1	2230.	1.01	0.8	40.	ND	NC	181.	NC	NC
14.70	755.	ND	10.3	2535.	1.01	0.3	18.	ND	NC	174.	NC	NC
14.85	740.	ND	10.6	2607.	1.00	0.	0.	ND	NC	170.	NC	NC
15.00	789.	ND	9.0	2209.	1.00	0.	0.	ND	NC	181.	NC	NC
15.15	764.	ND	10.0	2463.	1.01	0.3	17.	ND	NC	176.	NC	NC
15.30	750.	ND	10.8	2652.	1.03	1.7	100.	ND	NC	173.	NC	NC
15.45	752.	ND	6.6	1617.	1.02	0.9	32.	ND	NC	173.	NC	NC
15.60	758.	ND	7.3	1800.	1.01	0.7	27.	ND	NC	174.	NC	NC
15.75	763.	ND	8.7	2131.	1.01	0.5	25.	ND	NC	175.	NC	NC
15.90	765.	ND	10.3	2533.	1.01	0.5	27.	ND	NC	176.	NC	NC
16.05	783.	ND	9.1	2239.	1.01	0.6	32.	ND	NC	180.	NC	NC
16.20	750.	ND	6.6	1631.	1.01	0.7	24.	ND	NC	172.	NC	NC
16.35	740.	ND	7.2	1773.	1.01	0.4	15.	ND	NC	170.	NC	NC
16.50	766.	ND	9.7	2375.	1.01	0.7	34.	ND	NC	176.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	772.	ND	10.1	2493.	1.02	1.2	67.	ND	NC	177.	NC	NC
16.80	759.	ND	9.8	2422.	1.02	1.4	73.	ND	NC	175.	NC	NC
16.95	772.	ND	8.5	2087.	1.00	0.	0.	ND	NC	178.	NC	NC
17.10	781.	ND	8.6	2116.	1.00	0.	0.	ND	NC	180.	NC	NC
17.25	781.	ND	9.8	2400.	1.00	0.	0.	ND	NC	180.	NC	NC
17.40	769.	ND	10.3	2529.	1.01	0.4	20.	ND	NC	177.	NC	NC
17.55	773.	ND	10.1	2482.	1.01	0.3	19.	ND	NC	178.	NC	NC
17.70	783.	ND	9.3	2296.	1.01	0.5	24.	ND	NC	180.	NC	NC
17.85	774.	ND	9.0	2213.	1.01	0.4	20.	ND	NC	178.	NC	NC
18.00	759.	ND	8.1	2004.	1.01	0.4	17.	ND	NC	175.	NC	NC
18.15	791.	ND	9.2	2257.	1.00	0.	0.	ND	NC	182.	NC	NC
18.30	787.	ND	10.3	2522.	1.00	0.	0.	ND	NC	181.	NC	NC
18.45	767.	ND	10.1	2494.	1.00	0.	0.	ND	NC	176.	NC	NC
18.60	768.	ND	9.8	2408.	1.01	0.7	39.	ND	NC	177.	NC	NC
18.75	814.	ND	9.3	2285.	1.01	0.7	35.	ND	NC	187.	NC	NC
18.90	759.	ND	10.0	2464.	1.01	0.4	20.	ND	NC	175.	NC	NC
19.05	762.	ND	9.6	2371.	1.01	0.6	29.	ND	NC	175.	NC	NC
19.20	788.	ND	9.5	2329.	1.02	1.2	61.	ND	NC	181.	NC	NC
19.35	757.	ND	9.6	2371.	1.06	3.5	183.	ND	NC	174.	NC	NC
19.50	742.	ND	9.8	2421.	1.03	2.0	104.	ND	NC	171.	NC	NC
19.65	780.	ND	9.6	2371.	1.02	1.1	57.	ND	NC	179.	NC	NC
19.80	779.	ND	9.3	2283.	1.06	3.6	179.	ND	NC	179.	NC	NC
19.95	753.	ND	9.2	2259.	1.05	2.8	137.	ND	NC	173.	NC	NC
20.10	746.	ND	9.4	2302.	1.04	2.4	122.	ND	NC	172.	NC	NC
20.25	783.	ND	9.8	2399.	1.03	1.5	81.	ND	NC	180.	NC	NC
20.40	762.	ND	10.1	2476.	1.01	0.5	29.	ND	NC	175.	NC	NC
20.55	750.	ND	9.9	2437.	1.02	1.1	59.	ND	NC	172.	NC	NC
20.70	765.	ND	9.7	2381.	1.01	0.9	45.	ND	NC	176.	NC	NC
20.85	776.	ND	10.1	2478.	1.02	1.3	73.	ND	NC	178.	NC	NC
21.00	747.	ND	10.3	2537.	1.01	0.5	29.	ND	NC	172.	NC	NC
21.15	762.	ND	10.2	2511.	1.01	0.5	26.	ND	NC	175.	NC	NC
21.30	787.	ND	10.1	2475.	1.01	0.5	29.	ND	NC	181.	NC	NC
21.45	760.	ND	10.0	2451.	1.01	0.8	41.	ND	NC	175.	NC	NC
21.60	759.	ND	9.8	2405.	1.01	0.7	39.	ND	NC	175.	NC	NC
21.75	773.	ND	10.1	2495.	1.01	0.5	27.	ND	NC	178.	NC	NC
21.90	768.	ND	9.9	2432.	1.01	0.6	30.	ND	NC	177.	NC	NC
22.05	768.	ND	9.7	2377.	1.02	1.1	59.	ND	NC	177.	NC	NC
22.20	780.	ND	9.7	2384.	1.01	0.8	42.	ND	NC	179.	NC	NC
22.35	767.	ND	9.5	2332.	1.02	1.2	62.	ND	NC	176.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	764.	ND	8.7	2143.	1.05	2.7	127.	ND	NC	176.	NC	NC
22.65	771.	ND	8.6	2117.	1.07	4.2	196.	ND	NC	177.	NC	NC
22.80	772.	ND	9.1	2229.	1.08	4.5	220.	ND	NC	178.	NC	NC
22.95	755.	ND	9.6	2356.	1.06	3.3	170.	ND	NC	174.	NC	NC
23.10	738.	ND	9.2	2270.	1.08	4.4	219.	ND	NC	179.	NC	NC
23.25	776.	ND	8.7	2148.	1.11	6.6	310.	ND	NC	178.	NC	NC
23.40	801.	ND	8.8	2171.	1.14	8.0	377.	ND	NC	184.	NC	NC
23.55	769.	ND	8.8	2174.	1.10	6.1	289.	ND	NC	177.	NC	NC
23.70	767.	ND	8.9	2200.	1.07	4.1	199.	ND	NC	176.	NC	NC
23.85	781.	ND	9.0	2216.	1.06	3.6	173.	ND	NC	180.	NC	NC
24.00	773.	ND	9.0	2220.	1.08	4.9	238.	ND	NC	178.	NC	NC
24.15	763.	ND	8.8	2170.	1.07	4.4	207.	ND	NC	175.	NC	NC
24.30	774.	ND	8.9	2190.	1.05	3.0	145.	ND	NC	178.	NC	NC
24.45	796.	ND	9.3	2298.	1.05	2.7	134.	ND	NC	183.	NC	NC
24.60	752.	ND	9.5	2329.	1.04	2.5	129.	ND	NC	173.	NC	NC
24.75	762.	ND	9.2	2263.	1.04	2.2	108.	ND	NC	175.	NC	NC
24.90	811.	ND	9.4	2317.	1.03	1.9	98.	ND	NC	187.	NC	NC
25.05	780.	ND	9.4	2311.	1.03	1.8	91.	ND	NC	179.	NC	NC
25.20	760.	ND	9.4	2310.	1.03	1.7	84.	ND	NC	175.	NC	NC
25.35	784.	ND	9.7	2381.	1.02	1.1	59.	ND	NC	180.	NC	NC
25.50	790.	ND	9.8	2413.	1.02	0.9	49.	ND	NC	182.	NC	NC
25.65	759.	ND	9.7	2393.	1.02	0.9	49.	ND	NC	175.	NC	NC
25.80	759.	ND	9.7	2383.	1.01	0.8	40.	ND	NC	175.	NC	NC
25.95	787.	ND	9.8	2421.	1.02	1.0	52.	ND	NC	181.	NC	NC
26.10	772.	ND	9.9	2425.	1.02	1.1	58.	ND	NC	178.	NC	NC
26.25	754.	ND	10.1	2478.	1.01	0.4	21.	ND	NC	173.	NC	NC
26.40	775.	ND	9.9	2431.	1.00	0.	0.	ND	NC	178.	NC	NC
26.55	791.	ND	9.9	2444.	1.02	0.9	50.	ND	NC	182.	NC	NC
26.70	771.	ND	10.0	2451.	1.01	0.8	40.	ND	NC	177.	NC	NC
26.85	765.	ND	9.7	2375.	1.01	0.4	21.	ND	NC	176.	NC	NC
27.00	790.	ND	9.6	2352.	1.00	0.	0.	ND	NC	182.	NC	NC
27.15	770.	ND	9.5	2332.	1.01	0.8	42.	ND	NC	177.	NC	NC
27.30	742.	ND	9.6	2361.	1.02	1.0	54.	ND	NC	171.	NC	NC
27.45	779.	ND	9.7	2378.	1.03	1.5	77.	ND	NC	179.	NC	NC
27.60	751.	ND	9.2	2261.	1.06	3.4	166.	ND	NC	173.	NC	NC
27.75	752.	ND	8.6	2114.	1.07	4.3	197.	ND	NC	173.	NC	NC
27.90	773.	ND	8.7	2129.	1.07	4.1	190.	ND	NC	178.	NC	NC
28.05	773.	ND	8.8	2172.	1.05	3.2	150.	ND	NC	178.	NC	NC
28.20	760.	ND	8.6	2121.	1.09	5.2	242.	ND	NC	175.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	759.	ND	8.1	1993.	1.11	6.2	272.	ND	NC	175.	NC	NC
28.50	783.	ND	7.8	1919.	1.14	8.5	355.	ND	NC	180.	NC	NC
28.65	781.	ND	8.3	2030.	1.15	9.0	398.	ND	NC	180.	NC	NC
28.80	760.	ND	8.6	2112.	1.12	6.8	315.	ND	NC	175.	NC	NC
28.95	761.	ND	7.7	1882.	1.15	8.6	354.	ND	NC	175.	NC	NC
29.10	759.	ND	8.2	2005.	1.22	12.9	564.	ND	NC	175.	NC	NC
29.25	751.	ND	8.2	2005.	1.24	14.3	628.	ND	NC	173.	NC	NC
29.40	750.	ND	7.8	1919.	1.22	13.2	553.	ND	NC	173.	NC	NC
29.55	767.	ND	7.5	1840.	1.21	12.3	495.	ND	NC	176.	NC	NC
29.70	728.	ND	6.5	1602.	1.29	16.8	587.	ND	NC	167.	NC	NC
29.85	723.	ND	5.4	1330.	1.32	18.6	541.	ND	NC	166.	NC	NC
30.00	736.	ND	5.2	1267.	1.34	19.8	548.	ND	NC	169.	NC	NC
30.15	800.	ND	6.7	1637.	1.31	18.0	645.	ND	NC	184.	NC	NC
30.30	735.	ND	7.8	1912.	1.28	16.4	685.	ND	NC	169.	NC	NC
30.45	715.	ND	5.8	1435.	1.30	17.7	557.	ND	NC	165.	NC	NC
30.60	778.	ND	5.9	1455.	1.33	19.7	626.	ND	NC	179.	NC	NC
30.75	756.	ND	5.3	1301.	1.35	20.4	581.	ND	NC	174.	NC	NC
30.90	700.	ND	4.7	1154.	1.35	20.4	514.	ND	NC	161.	NC	NC
31.05	723.	ND	4.5	1115.	1.34	19.8	493.	ND	NC	166.	NC	NC
31.20	786.	ND	4.4	1082.	1.34	19.9	471.	ND	NC	181.	NC	NC
31.35	683.	ND	4.1	1007.	1.35	20.4	448.	ND	NC	157.	NC	NC
31.50	686.	ND	4.4	1074.	1.35	20.7	486.	ND	NC	158.	NC	NC
31.65	830.	ND	4.5	1105.	1.35	20.7	500.	ND	NC	191.	NC	NC
31.80	687.	ND	3.6	881.	1.35	20.9	402.	ND	NC	158.	NC	NC
31.95	639.	ND	3.3	802.	1.36	21.2	372.	ND	NC	147.	NC	NC
32.10	741.	ND	4.3	1068.	1.37	21.5	502.	ND	NC	170.	NC	NC
32.25	706.	ND	4.1	1019.	1.36	21.4	476.	ND	NC	162.	NC	NC
32.40	643.	ND	3.1	766.	1.35	20.5	344.	ND	NC	148.	NC	NC
32.55	649.	ND	3.2	779.	1.36	21.0	358.	ND	NC	149.	NC	NC
32.70	777.	ND	4.0	987.	1.36	21.4	461.	ND	NC	179.	NC	NC
32.85	761.	ND	4.4	1093.	1.37	21.7	518.	ND	NC	161.	NC	NC
33.00	691.	ND	4.4	1088.	1.35	20.6	490.	ND	NC	159.	NC	NC
33.15	774.	ND	5.6	1388.	1.34	20.1	611.	ND	NC	178.	NC	NC
33.30	664.	ND	4.9	1214.	1.36	21.0	557.	ND	NC	153.	NC	NC
33.45	689.	ND	4.0	992.	1.37	21.8	471.	ND	NC	159.	NC	NC
33.60	782.	ND	4.6	1140.	1.37	21.9	546.	ND	NC	180.	NC	NC
33.75	763.	ND	7.0	1726.	1.27	16.0	604.	ND	NC	176.	NC	NC
33.90	729.	ND	5.8	1684.	1.25	14.4	530.	ND	NC	168.	NC	NC
34.05	667.	ND	4.8	1181.	1.29	17.2	443.	ND	NC	153.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	748.	ND	5.3	1297.	1.36	21.0	595.	ND	NC	172.	NC	NC
34.35	748.	ND	7.0	1719.	1.31	18.4	692.	ND	NC	172.	NC	NC
34.50	756.	ND	8.1	1991.	1.23	13.6	590.	ND	NC	174.	NC	NC
34.65	769.	ND	7.8	1923.	1.19	11.1	466.	ND	NC	177.	NC	NC
34.80	773.	ND	8.6	2105.	1.29	17.3	795.	ND	NC	178.	NC	NC
34.95	764.	ND	7.9	1941.	1.30	17.9	758.	ND	NC	176.	NC	NC
35.10	781.	ND	8.6	2105.	1.26	15.0	691.	ND	NC	180.	NC	NC
35.25	786.	ND	9.0	2204.	1.18	10.3	498.	ND	NC	181.	NC	NC
35.40	780.	ND	9.2	2266.	1.20	11.5	570.	ND	NC	179.	NC	NC
35.55	778.	ND	9.0	2204.	1.24	14.1	679.	ND	NC	179.	NC	NC
35.70	780.	ND	8.9	2184.	1.25	14.8	707.	ND	NC	179.	NC	NC
35.85	783.	ND	9.3	2292.	1.21	12.2	613.	ND	NC	180.	NC	NC
36.00	782.	ND	9.5	2336.	1.13	7.9	402.	ND	NC	180.	NC	NC
36.15	783.	ND	9.0	2222.	1.14	8.5	410.	ND	NC	180.	NC	NC
36.30	794.	ND	9.0	2217.	1.15	8.6	416.	ND	NC	183.	NC	NC
36.45	780.	ND	9.0	2208.	1.17	10.0	482.	ND	NC	179.	NC	NC
36.60	774.	ND	9.0	2211.	1.12	6.8	329.	ND	NC	178.	NC	NC
36.75	787.	ND	9.3	2288.	1.09	5.6	278.	ND	NC	181.	NC	NC
36.90	788.	ND	9.3	2286.	1.12	6.9	346.	ND	NC	181.	NC	NC
37.05	764.	ND	9.5	2331.	1.12	7.3	374.	ND	NC	176.	NC	NC
37.20	764.	ND	9.2	2269.	1.10	6.0	295.	ND	NC	176.	NC	NC
37.35	802.	ND	9.9	2429.	1.06	3.7	195.	ND	NC	185.	NC	NC
37.50	786.	ND	10.5	2584.	1.04	2.6	147.	ND	NC	181.	NC	NC
37.65	743.	ND	10.0	2459.	1.03	1.8	96.	ND	NC	171.	NC	NC
37.80	779.	ND	8.5	2083.	1.02	1.4	62.	ND	NC	179.	NC	NC
37.95	759.	ND	7.4	1827.	1.10	5.6	225.	ND	NC	175.	NC	NC
38.10	751.	ND	8.5	2102.	1.07	4.1	189.	ND	NC	173.	NC	NC
38.25	770.	ND	9.1	2226.	1.04	2.2	105.	ND	NC	177.	NC	NC
38.40	796.	ND	9.0	2210.	1.10	6.0	290.	ND	NC	183.	NC	NC
38.55	754.	ND	8.2	2008.	1.20	11.8	516.	ND	NC	173.	NC	NC
38.70	738.	ND	6.6	1618.	1.27	16.0	567.	ND	NC	170.	NC	NC
38.85	808.	ND	8.1	2001.	1.26	15.1	659.	ND	NC	186.	NC	NC
39.00	777.	ND	9.1	2227.	1.19	11.4	555.	ND	NC	179.	NC	NC
39.15	756.	ND	8.1	2002.	1.25	14.5	634.	ND	NC	174.	NC	NC
39.30	760.	ND	7.2	1766.	1.29	17.0	656.	ND	NC	175.	NC	NC
39.45	760.	ND	6.8	1675.	1.33	19.5	713.	ND	NC	175.	NC	NC
39.60	749.	ND	8.2	2010.	1.21	12.2	536.	ND	NC	172.	NC	NC
39.75	769.	ND	9.2	2266.	1.22	12.7	629.	ND	NC	177.	NC	NC
39.90	785.	ND	9.4	2302.	1.23	13.6	683.	ND	NC	180.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	758.	ND	9.4	2313.	1.26	15.2	769.	ND	NC	174.	NC	NC
40.20	761.	ND	8.2	2125.	1.23	13.6	604.	ND	NC	175.	NC	NC
40.35	784.	ND	8.9	2180.	1.16	9.2	440.	ND	NC	180.	NC	NC
40.50	766.	ND	9.5	2344.	1.12	7.3	374.	ND	NC	176.	NC	NC
40.65	752.	ND	9.6	2372.	1.16	9.5	493.	ND	NC	173.	NC	NC
40.80	753.	ND	9.3	2286.	1.23	13.6	679.	ND	NC	173.	NC	NC
40.95	750.	ND	7.1	1744.	1.30	17.9	681.	ND	NC	173.	NC	NC
41.10	749.	ND	6.7	1654.	1.23	13.3	480.	ND	NC	172.	NC	NC
41.25	775.	ND	9.3	2276.	1.18	10.8	537.	ND	NC	178.	NC	NC
41.40	791.	ND	9.1	2227.	1.19	11.0	533.	ND	NC	182.	NC	NC
41.55	739.	ND	7.1	1754.	1.19	11.1	425.	ND	NC	170.	NC	NC
41.70	705.	ND	5.1	1261.	1.22	13.1	362.	ND	NC	162.	NC	NC
41.85	745.	ND	7.1	1757.	1.22	13.1	505.	ND	NC	171.	NC	NC
42.00	784.	ND	8.9	2189.	1.08	4.7	223.	ND	NC	180.	NC	NC
42.15	756.	ND	9.3	2295.	1.16	9.6	480.	ND	NC	174.	NC	NC
42.30	759.	ND	8.2	2019.	1.25	14.5	639.	ND	NC	173.	NC	NC
42.45	766.	ND	7.1	1757.	1.35	20.9	801.	ND	NC	176.	NC	NC
42.60	779.	ND	7.8	1923.	1.25	14.8	623.	ND	NC	179.	NC	NC
42.75	771.	ND	9.7	2376.	1.14	8.0	417.	ND	NC	177.	NC	NC
42.90	744.	ND	9.1	2234.	1.14	8.0	389.	ND	NC	171.	NC	NC
43.05	768.	ND	6.7	1637.	1.08	4.5	160.	ND	NC	177.	NC	NC
43.20	757.	ND	4.9	1198.	1.10	5.8	151.	ND	NC	174.	NC	NC
43.35	741.	ND	5.9	1458.	1.09	5.4	172.	ND	NC	170.	NC	NC
43.50	759.	ND	8.6	2110.	1.06	3.7	171.	ND	NC	175.	NC	NC
43.65	799.	ND	9.7	2381.	1.09	5.5	286.	ND	NC	184.	NC	NC
43.80	723.	ND	8.9	2186.	1.07	4.3	206.	ND	NC	166.	NC	NC
43.95	709.	ND	4.9	1214.	1.04	2.4	63.	ND	NC	163.	NC	NC
44.10	770.	ND	7.9	1943.	1.05	3.0	127.	ND	NC	177.	NC	NC
44.25	792.	ND	10.9	2678.	1.03	1.7	97.	ND	NC	182.	NC	NC
44.40	739.	ND	11.7	2877.	1.03	1.9	120.	ND	NC	170.	NC	NC
44.55	738.	ND	6.9	1687.	1.02	1.4	52.	ND	NC	173.	NC	NC
44.70	795.	ND	5.7	1406.	1.04	2.1	64.	ND	NC	183.	NC	NC
44.85	757.	ND	5.8	1414.	1.05	2.7	84.	ND	NC	174.	NC	NC
45.00	762.	ND	10.5	2574.	1.03	1.7	96.	ND	NC	175.	NC	NC
45.15	781.	ND	10.2	2519.	1.04	2.3	125.	ND	NC	180.	NC	NC
45.30	736.	ND	7.8	1906.	1.02	1.3	54.	ND	NC	169.	NC	NC
45.45	771.	ND	8.1	1997.	1.01	0.3	13.	ND	NC	177.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 11 78
RUN NUMBER- 22
SEGMENT NUMBER- 2
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	734.	ND	8.1	1990.	1.01	0.6	24.	ND	NC	169.	NC	NC
0.15	791.	ND	7.9	1952.	1.01	0.4	15.	ND	NC	182.	NC	NC
0.30	768.	ND	10.8	2667.	1.05	2.9	172.	ND	NC	177.	NC	NC
0.45	729.	ND	11.1	2725.	1.08	4.4	265.	ND	NC	168.	NC	NC
0.60	595.	ND	8.3	2034.	1.02	1.4	64.	ND	NC	137.	NC	NC
0.75	471.	ND	4.8	1172.	1.01	0.6	21.	ND	NC	108.	NC	NC
0.90	378.	ND	3.4	848.	1.00	0.	0.	ND	NC	87.	NC	NC
1.05	403.	ND	4.4	1078.	1.00	0.	0.	ND	NC	93.	NC	NC
1.20	476.	ND	5.1	1247.	1.02	1.2	32.	ND	NC	108.	NC	NC
1.35	368.	ND	3.8	943.	1.03	1.6	33.	ND	NC	85.	NC	NC
1.50	417.	ND	5.7	1402.	1.04	2.3	71.	ND	NC	96.	NC	NC
1.65	438.	ND	6.9	1703.	1.04	2.5	93.	ND	NC	101.	NC	NC
1.80	414.	ND	8.9	2193.	1.04	2.1	99.	ND	NC	95.	NC	NC
1.95	409.	ND	8.5	2101.	1.08	4.5	208.	ND	NC	94.	NC	NC
2.10	431.	ND	7.9	1932.	1.09	5.3	225.	ND	NC	99.	NC	NC
2.25	436.	ND	7.7	1894.	1.13	7.7	318.	ND	NC	100.	NC	NC
2.40	425.	ND	8.7	2145.	1.09	5.3	249.	ND	NC	98.	NC	NC
2.55	439.	ND	8.6	2122.	1.07	4.3	197.	ND	NC	101.	NC	NC
2.70	451.	ND	8.4	2071.	1.06	3.8	172.	ND	NC	104.	NC	NC
2.85	421.	ND	8.7	2147.	1.06	3.6	159.	ND	NC	97.	NC	NC
3.00	411.	ND	8.8	2155.	1.06	3.2	153.	ND	NC	95.	NC	NC
3.15	444.	ND	8.7	2131.	1.04	2.5	117.	ND	NC	102.	NC	NC
3.30	441.	ND	8.8	2169.	1.04	2.1	101.	ND	NC	101.	NC	NC
3.45	436.	ND	9.2	2270.	1.04	2.6	128.	ND	NC	100.	NC	NC
3.60	441.	ND	8.8	2153.	1.05	2.8	130.	ND	NC	102.	NC	NC
3.75	442.	ND	8.7	2135.	1.03	2.0	95.	ND	NC	102.	NC	NC
3.90	454.	ND	8.8	2160.	1.03	2.0	96.	ND	NC	105.	NC	NC
4.05	477.	ND	8.8	2161.	1.04	2.1	99.	ND	NC	111.	NC	NC
4.20	490.	ND	8.5	2061.	1.03	2.0	93.	ND	NC	113.	NC	NC
4.35	496.	ND	8.4	2068.	1.03	2.0	91.	ND	NC	114.	NC	NC
4.50	468.	ND	8.0	1971.	1.03	2.0	85.	ND	NC	108.	NC	NC
4.65	487.	ND	7.8	1930.	1.03	1.6	66.	ND	NC	112.	NC	NC
4.80	545.	ND	8.3	2038.	1.03	1.6	73.	ND	NC	125.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	554.	ND	8.5	2097.	1.04	2.2	103.	ND	NC	127.	NC	NC
5.10	549.	ND	8.1	1984.	1.07	4.3	185.	ND	NC	126.	NC	NC
5.25	572.	ND	7.4	1818.	1.12	7.3	289.	ND	NC	132.	NC	NC
5.40	603.	ND	7.5	1856.	1.14	8.3	337.	ND	NC	139.	NC	NC
5.55	576.	ND	7.9	1936.	1.14	8.2	348.	ND	NC	132.	NC	NC
5.70	559.	ND	7.6	1680.	1.22	12.9	529.	ND	NC	129.	NC	NC
5.85	538.	ND	7.8	1925.	1.24	14.3	600.	ND	NC	124.	NC	NC
6.00	516.	ND	7.6	1874.	1.24	14.4	590.	ND	NC	117.	NC	NC
6.15	477.	ND	7.0	1728.	1.17	9.8	369.	ND	NC	110.	NC	NC
6.30	500.	ND	6.9	1699.	1.13	7.8	291.	ND	NC	115.	NC	NC
6.45	489.	ND	7.2	1760.	1.18	10.8	416.	ND	NC	113.	NC	NC
6.60	472.	ND	7.3	1788.	1.16	9.4	368.	ND	NC	108.	NC	NC
6.75	489.	ND	7.5	1840.	1.13	7.6	306.	ND	NC	112.	NC	NC
6.90	518.	ND	7.8	1917.	1.09	5.5	232.	ND	NC	119.	NC	NC
7.05	491.	ND	7.6	1870.	1.10	5.7	232.	ND	NC	113.	NC	NC
7.20	457.	ND	6.9	1700.	1.11	6.6	244.	ND	NC	105.	NC	NC
7.35	496.	ND	6.5	1592.	1.11	6.5	227.	ND	NC	114.	NC	NC
7.50	505.	ND	6.3	1558.	1.23	13.5	461.	ND	NC	116.	NC	NC
7.65	526.	ND	6.6	1625.	1.18	10.4	369.	ND	NC	122.	NC	NC
7.80	553.	ND	7.3	1788.	1.12	6.9	271.	ND	NC	127.	NC	NC
7.95	549.	ND	7.6	1866.	1.21	12.1	494.	ND	NC	126.	NC	NC
8.10	518.	ND	7.0	1729.	1.27	15.7	591.	ND	NC	119.	NC	NC
8.25	505.	ND	6.2	1527.	1.33	19.2	640.	ND	NC	116.	NC	NC
8.40	554.	ND	6.1	1503.	1.29	17.0	559.	ND	NC	127.	NC	NC
8.55	548.	ND	7.8	1930.	1.13	7.4	314.	ND	NC	126.	NC	NC
8.70	540.	ND	8.2	2021.	1.37	21.6	954.	ND	NC	124.	NC	NC
8.85	556.	ND	7.9	1938.	1.66	39.0	1652.	ND	NC	128.	NC	NC
9.00	556.	ND	7.9	1950.	1.26	15.1	645.	ND	NC	128.	NC	NC
9.15	545.	ND	8.4	2061.	1.18	10.5	475.	ND	NC	125.	NC	NC
9.30	549.	ND	8.3	2044.	1.14	8.0	358.	ND	NC	126.	NC	NC
9.45	563.	ND	7.9	1950.	1.13	7.9	336.	ND	NC	130.	NC	NC
9.60	551.	ND	7.8	1917.	1.20	11.7	491.	ND	NC	127.	NC	NC
9.75	538.	ND	8.2	2016.	1.19	11.1	487.	ND	NC	124.	NC	NC
9.90	556.	ND	8.1	2003.	1.14	8.1	355.	ND	NC	128.	NC	NC
10.05	576.	ND	8.5	2088.	1.09	5.4	247.	ND	NC	133.	NC	NC
10.20	570.	ND	8.5	2089.	1.09	5.5	252.	ND	NC	131.	NC	NC
10.35	562.	ND	8.6	1968.	1.13	7.9	341.	ND	NC	129.	NC	NC
10.50	571.	ND	8.5	2083.	1.10	6.0	274.	ND	NC	131.	NC	NC
10.65	584.	ND	8.9	2192.	1.07	4.4	208.	ND	NC	134.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	555.	ND	9.2	2275.	1.06	3.2	161.	ND	NC	129.	NC	NC
10.95	561.	ND	8.8	2167.	1.05	2.8	135.	ND	NC	129.	NC	NC
11.10	582.	ND	8.5	2089.	1.06	3.8	172.	ND	NC	134.	NC	NC
11.25	554.	ND	8.4	2054.	1.10	5.6	253.	ND	NC	128.	NC	NC
11.40	547.	ND	8.5	2095.	1.08	4.4	204.	ND	NC	126.	NC	NC
11.55	571.	ND	8.6	2117.	1.05	2.9	134.	ND	NC	131.	NC	NC
11.70	569.	ND	8.4	2071.	1.08	4.5	202.	ND	NC	131.	NC	NC
11.85	547.	ND	8.2	2022.	1.10	6.1	270.	ND	NC	126.	NC	NC
12.00	565.	ND	8.4	2074.	1.09	5.2	236.	ND	NC	130.	NC	NC
12.15	591.	ND	8.9	2185.	1.06	3.7	178.	ND	NC	136.	NC	NC
12.30	546.	ND	9.1	2230.	1.05	2.9	142.	ND	NC	126.	NC	NC
12.45	552.	ND	8.8	2164.	1.05	2.7	130.	ND	NC	127.	NC	NC
12.60	588.	ND	8.8	2164.	1.04	2.3	108.	ND	NC	135.	NC	NC
12.75	560.	ND	8.7	2144.	1.05	2.7	129.	ND	NC	129.	NC	NC
12.90	546.	ND	9.0	2206.	1.03	2.0	95.	ND	NC	126.	NC	NC
13.05	562.	ND	8.9	2181.	1.03	1.5	71.	ND	NC	129.	NC	NC
13.20	544.	ND	8.7	2137.	1.04	2.3	110.	ND	NC	125.	NC	NC
13.35	536.	ND	8.6	2119.	1.05	2.8	128.	ND	NC	123.	NC	NC
13.50	558.	ND	8.7	2150.	1.04	2.6	122.	ND	NC	128.	NC	NC
13.65	565.	ND	9.1	2229.	1.04	2.1	104.	ND	NC	130.	NC	NC
13.80	543.	ND	8.9	2189.	1.04	2.2	107.	ND	NC	125.	NC	NC
13.95	538.	ND	8.4	2077.	1.04	2.4	109.	ND	NC	124.	NC	NC
14.10	572.	ND	8.5	2085.	1.04	2.5	115.	ND	NC	132.	NC	NC
14.25	548.	ND	8.3	2052.	1.06	3.3	148.	ND	NC	126.	NC	NC
14.40	522.	ND	8.1	1995.	1.05	2.8	124.	ND	NC	120.	NC	NC
14.55	559.	ND	7.4	1826.	1.07	4.4	174.	ND	NC	129.	NC	NC
14.70	563.	ND	6.8	1677.	1.20	11.8	431.	ND	NC	130.	NC	NC
14.85	532.	ND	6.7	1642.	1.25	14.6	525.	ND	NC	122.	NC	NC
15.00	524.	ND	6.5	1601.	1.27	16.2	565.	ND	NC	121.	NC	NC
15.15	561.	ND	7.2	1770.	1.21	12.5	482.	ND	NC	129.	NC	NC
15.30	555.	ND	7.7	1892.	1.16	9.2	389.	ND	NC	128.	NC	NC
15.45	543.	ND	7.7	1900.	1.21	12.6	524.	ND	NC	125.	NC	NC
15.60	572.	ND	7.7	1889.	1.22	12.7	523.	ND	NC	132.	NC	NC
15.75	585.	ND	7.7	1891.	1.18	10.3	427.	ND	NC	135.	NC	NC
15.90	576.	ND	7.9	1945.	1.13	7.4	316.	ND	NC	132.	NC	NC
16.05	570.	ND	7.9	1937.	1.10	6.1	256.	ND	NC	131.	NC	NC
16.20	571.	ND	8.1	1982.	1.10	6.0	258.	ND	NC	131.	NC	NC
16.35	581.	ND	8.4	2078.	1.09	5.2	234.	ND	NC	134.	NC	NC
16.50	553.	ND	8.5	2095.	1.07	4.3	196.	ND	NC	127.	NC	NC

RUN NUMBER- 22
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	562.	ND	8.6	2112.	1.06	3.4	159.	ND	NC	129.	NC	NC
16.80	586.	ND	8.8	2175.	1.05	2.8	132.	ND	NC	135.	NC	NC
16.95	587.	ND	8.8	2163.	1.04	2.3	109.	ND	NC	135.	NC	NC
17.10	555.	ND	8.6	2119.	1.03	2.0	93.	ND	NC	128.	NC	NC
17.25	573.	ND	8.7	2128.	1.03	1.9	87.	ND	NC	132.	NC	NC
17.40	587.	ND	8.9	2183.	1.03	1.7	82.	ND	NC	135.	NC	NC
17.55	545.	ND	8.9	2187.	1.03	1.6	75.	ND	NC	125.	NC	NC
17.70	566.	ND	8.8	2154.	1.03	1.6	75.	ND	NC	133.	NC	NC
17.85	604.	ND	8.8	2153.	1.03	1.5	70.	ND	NC	139.	NC	NC
18.00	538.	ND	8.7	2144.	1.02	1.4	66.	ND	NC	124.	NC	NC
18.15	535.	ND	8.6	2125.	1.02	1.4	65.	ND	NC	123.	NC	NC
18.30	560.	ND	8.7	2147.	1.02	1.3	60.	ND	NC	129.	NC	NC
18.45	565.	ND	8.5	2086.	1.02	1.2	53.	ND	NC	130.	NC	NC
18.60	537.	ND	8.2	2018.	1.02	1.0	46.	ND	NC	124.	NC	NC
18.75	552.	ND	8.3	2053.	1.02	1.1	47.	ND	NC	127.	NC	NC
18.90	581.	ND	8.3	2029.	1.02	1.1	50.	ND	NC	134.	NC	NC
19.05	531.	ND	8.0	1966.	1.02	0.9	41.	ND	NC	122.	NC	NC
19.20	543.	ND	7.8	1916.	1.01	0.7	31.	ND	NC	125.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 11 78
RUN NUMBER- 23
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	-4.	ND	0.5	113.	1.00	0.	0.	ND	NC	-1.	NC	NC
0.15	-1.	ND	0.2	60.	1.00	0.	0.	ND	NC	-0.	NC	NC
0.30	2.	ND	0.2	54.	1.01	0.3	0.	ND	NC	0.	NC	NC
0.45	2.	ND	0.2	38.	1.01	0.3	0.	ND	NC	1.	NC	NC
0.60	1.	ND	0.2	48.	1.01	0.3	0.	ND	NC	0.	NC	NC
0.75	-1.	ND	0.2	42.	1.01	0.3	0.	ND	NC	-0.	NC	NC
0.90	-3.	ND	0.1	37.	1.01	0.4	0.	ND	NC	-1.	NC	NC
1.05	8.	ND	0.2	47.	1.01	0.4	0.	ND	NC	2.	NC	NC
1.20	45.	ND	0.3	82.	1.01	0.4	1.	ND	NC	10.	NC	NC
1.35	92.	ND	0.8	196.	1.01	0.4	2.	ND	NC	21.	NC	NC
1.50	115.	ND	1.2	292.	1.01	0.5	3.	ND	NC	26.	NC	NC
1.65	133.	ND	0.8	196.	1.01	0.5	2.	ND	NC	31.	NC	NC
1.80	125.	ND	1.4	352.	1.01	0.4	3.	ND	NC	29.	NC	NC
1.95	99.	ND	0.7	174.	1.01	0.3	1.	ND	NC	23.	NC	NC
2.10	115.	ND	0.6	136.	1.01	0.3	1.	ND	NC	26.	NC	NC
2.25	137.	ND	0.9	228.	1.01	0.3	2.	ND	NC	31.	NC	NC
2.40	114.	ND	1.1	273.	1.01	0.4	2.	ND	NC	26.	NC	NC
2.55	46.	ND	0.8	199.	1.01	0.4	2.	ND	NC	11.	NC	NC
2.70	17.	ND	0.7	169.	1.01	0.3	1.	ND	NC	4.	NC	NC
2.85	23.	ND	0.4	110.	1.01	0.4	1.	ND	NC	5.	NC	NC
3.00	24.	ND	0.4	94.	1.01	0.6	1.	ND	NC	5.	NC	NC
3.15	21.	ND	0.5	118.	1.01	0.5	1.	ND	NC	5.	NC	NC
3.30	28.	ND	0.5	127.	1.01	0.4	1.	ND	NC	6.	NC	NC
3.45	30.	ND	0.5	119.	1.01	0.4	1.	ND	NC	7.	NC	NC
3.60	22.	ND	0.4	109.	1.01	0.4	1.	ND	NC	5.	NC	NC
3.75	18.	ND	0.4	103.	1.01	0.7	2.	ND	NC	4.	NC	NC
3.90	41.	ND	0.4	97.	1.01	0.5	1.	ND	NC	9.	NC	NC
4.05	21.	ND	0.4	91.	1.01	0.4	1.	ND	NC	5.	NC	NC
4.20	40.	ND	0.4	91.	1.01	0.5	1.	ND	NC	9.	NC	NC
4.35	43.	ND	0.4	93.	1.01	0.6	1.	ND	NC	10.	NC	NC
4.50	32.	ND	0.4	103.	1.01	0.5	1.	ND	NC	7.	NC	NC
4.65	27.	ND	0.4	104.	1.01	0.4	1.	ND	NC	6.	NC	NC
4.80	32.	ND	0.4	92.	1.01	0.4	1.	ND	NC	7.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	31.	ND	0.3	73.	1.01	0.6	1.	ND	NC	7.	NC	NC
5.10	27.	ND	0.4	106.	1.01	0.6	1.	ND	NC	6.	NC	NC
5.25	35.	ND	0.4	96.	1.01	0.4	1.	ND	NC	8.	NC	NC
5.40	29.	ND	0.3	75.	1.01	0.3	1.	ND	NC	7.	NC	NC
5.55	41.	ND	0.2	52.	1.01	0.4	0.	ND	NC	9.	NC	NC
5.70	43.	ND	0.1	33.	1.01	0.5	0.	ND	NC	10.	NC	NC
5.85	27.	ND	0.1	33.	1.01	0.6	0.	ND	NC	6.	NC	NC
6.00	79.	ND	0.1	33.	1.01	0.4	0.	ND	NC	18.	NC	NC
6.15	80.	ND	0.1	33.	1.01	0.4	0.	ND	NC	18.	NC	NC
6.30	75.	ND	0.1	19.	1.01	0.6	0.	ND	NC	17.	NC	NC
6.45	144.	ND	0.2	48.	1.01	0.4	0.	ND	NC	33.	NC	NC
6.60	235.	ND	0.2	59.	1.01	0.5	1.	ND	NC	54.	NC	NC
6.75	211.	ND	0.8	193.	1.01	0.5	2.	ND	NC	49.	NC	NC
6.90	277.	ND	3.5	856.	1.01	0.4	8.	ND	NC	64.	NC	NC
7.05	370.	ND	5.7	1394.	1.01	0.4	13.	ND	NC	85.	NC	NC
7.20	413.	ND	8.4	2075.	1.01	0.5	23.	ND	NC	95.	NC	NC
7.35	435.	ND	8.3	2045.	1.02	1.3	57.	ND	NC	100.	NC	NC
7.50	420.	ND	8.6	2107.	1.03	1.9	86.	ND	NC	97.	NC	NC
7.65	416.	ND	8.5	2100.	1.03	1.9	88.	ND	NC	96.	NC	NC
7.80	434.	ND	8.5	2088.	1.03	1.9	87.	ND	NC	100.	NC	NC
7.95	439.	ND	8.8	2156.	1.03	1.9	90.	ND	NC	101.	NC	NC
8.10	416.	ND	9.0	2215.	1.03	1.9	93.	ND	NC	96.	NC	NC
8.25	409.	ND	9.1	2242.	1.03	1.9	94.	ND	NC	94.	NC	NC
8.40	446.	ND	9.3	2280.	1.03	2.0	100.	ND	NC	103.	NC	NC
8.55	421.	ND	9.4	2301.	1.03	2.0	99.	ND	NC	97.	NC	NC
8.70	421.	ND	9.2	2260.	1.03	1.9	93.	ND	NC	97.	NC	NC
8.85	432.	ND	9.3	2275.	1.03	1.8	92.	ND	NC	99.	NC	NC
9.00	421.	ND	9.5	2328.	1.03	1.9	95.	ND	NC	97.	NC	NC
9.15	415.	ND	9.3	2287.	1.03	1.9	96.	ND	NC	95.	NC	NC
9.30	419.	ND	9.1	2227.	1.03	1.8	89.	ND	NC	96.	NC	NC
9.45	399.	ND	9.3	2283.	1.03	1.7	82.	ND	NC	92.	NC	NC
9.60	388.	ND	9.5	2332.	1.03	1.7	88.	ND	NC	89.	NC	NC
9.75	434.	ND	8.6	2113.	1.03	2.0	93.	ND	NC	105.	NC	NC
9.90	397.	ND	8.9	2192.	1.04	2.1	102.	ND	NC	91.	NC	NC
10.05	381.	ND	8.5	2100.	1.03	1.9	88.	ND	NC	88.	NC	NC
10.20	406.	ND	7.9	1940.	1.03	1.7	73.	ND	NC	93.	NC	NC
10.35	426.	ND	7.7	1900.	1.03	1.8	74.	ND	NC	98.	NC	NC
10.50	422.	ND	7.7	1889.	1.03	1.9	80.	ND	NC	97.	NC	NC
10.65	521.	ND	8.1	1998.	1.03	1.9	81.	ND	NC	120.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.85	568.	ND	8.9	2182.	1.03	1.9	89.	ND	NC	131.	NC	NC
10.95	572.	ND	9.4	2311.	1.03	1.9	96.	ND	NC	132.	NC	NC
11.10	581.	ND	9.5	2345.	1.03	1.9	98.	ND	NC	134.	NC	NC
11.25	640.	ND	9.6	2361.	1.03	1.9	97.	ND	NC	147.	NC	NC
11.40	619.	ND	9.4	2315.	1.04	2.5	128.	ND	NC	142.	NC	NC
11.55	592.	ND	9.2	2252.	1.04	2.6	126.	ND	NC	136.	NC	NC
11.70	611.	ND	9.0	2209.	1.05	2.8	134.	ND	NC	141.	NC	NC
11.85	616.	ND	9.1	2229.	1.10	6.1	295.	ND	NC	142.	NC	NC
12.00	595.	ND	8.5	2080.	1.09	5.4	244.	ND	NC	137.	NC	NC
12.15	614.	ND	8.8	2172.	1.07	3.9	183.	ND	NC	141.	NC	NC
12.30	615.	ND	9.1	2243.	1.07	3.9	192.	ND	NC	141.	NC	NC
12.45	608.	ND	9.0	2219.	1.08	4.9	237.	ND	NC	140.	NC	NC
12.60	630.	ND	8.0	1972.	1.13	7.7	331.	ND	NC	145.	NC	NC
12.75	618.	ND	8.9	2201.	1.14	8.3	400.	ND	NC	142.	NC	NC
12.90	605.	ND	9.3	2287.	1.09	5.3	266.	ND	NC	139.	NC	NC
13.05	609.	ND	8.9	2185.	1.10	5.6	269.	ND	NC	140.	NC	NC
13.20	640.	ND	7.6	1666.	1.16	9.4	384.	ND	NC	147.	NC	NC
13.35	575.	ND	8.0	1963.	1.17	10.0	430.	ND	NC	132.	NC	NC
13.50	544.	ND	6.4	1568.	1.12	7.3	251.	ND	NC	125.	NC	NC
13.65	607.	ND	5.1	1242.	1.06	3.8	103.	ND	NC	140.	NC	NC
13.80	592.	ND	6.1	1511.	1.03	2.0	67.	ND	NC	136.	NC	NC
13.95	594.	ND	7.9	1936.	1.02	1.5	62.	ND	NC	137.	NC	NC
14.10	647.	ND	8.5	2082.	1.02	1.1	50.	ND	NC	149.	NC	NC
14.25	621.	ND	9.4	2312.	1.02	1.2	63.	ND	NC	143.	NC	NC
14.40	608.	ND	9.6	2356.	1.06	3.5	180.	ND	NC	140.	NC	NC
14.55	608.	ND	9.6	2356.	1.06	3.3	171.	ND	NC	140.	NC	NC
14.70	633.	ND	9.9	2443.	1.07	3.8	204.	ND	NC	146.	NC	NC
14.85	595.	ND	10.0	2453.	1.05	3.2	173.	ND	NC	137.	NC	NC
15.00	609.	ND	9.1	2247.	1.03	2.0	99.	ND	NC	145.	NC	NC
15.15	627.	ND	9.5	2336.	1.04	2.3	117.	ND	NC	144.	NC	NC
15.30	621.	ND	9.8	2418.	1.03	2.0	108.	ND	NC	143.	NC	NC
15.45	625.	ND	9.7	2382.	1.03	1.7	86.	ND	NC	144.	NC	NC
15.60	601.	ND	9.3	2286.	1.03	1.9	93.	ND	NC	138.	NC	NC
15.75	594.	ND	9.8	2422.	1.03	1.5	79.	ND	NC	137.	NC	NC
15.90	607.	ND	9.7	2395.	1.04	2.4	124.	ND	NC	140.	NC	NC
16.05	594.	ND	9.8	2405.	1.04	2.4	127.	ND	NC	137.	NC	NC
16.20	584.	ND	10.3	2542.	1.03	1.7	96.	ND	NC	134.	NC	NC
16.35	585.	ND	10.4	2555.	1.03	2.1	115.	ND	NC	135.	NC	NC
16.50	633.	ND	9.0	2217.	1.04	2.3	111.	ND	NC	146.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	602.	ND	10.3	2531.	1.02	1.3	73.	ND	NC	138.	NC	NC
16.80	591.	ND	10.6	2616.	1.03	1.7	96.	ND	NC	136.	NC	NC
16.95	617.	ND	10.3	2538.	1.02	1.3	72.	ND	NC	142.	NC	NC
17.10	617.	ND	11.0	2700.	1.03	1.8	104.	ND	NC	142.	NC	NC
17.25	604.	ND	11.1	2731.	1.03	1.5	88.	ND	NC	139.	NC	NC
17.40	610.	ND	10.3	2545.	1.01	0.9	48.	ND	NC	140.	NC	NC
17.55	612.	ND	10.6	2618.	1.01	0.6	34.	ND	NC	141.	NC	NC
17.70	608.	ND	10.8	2649.	1.01	0.5	29.	ND	NC	140.	NC	NC
17.85	603.	ND	10.8	2647.	1.01	0.5	28.	ND	NC	139.	NC	NC
18.00	596.	ND	10.5	2582.	1.01	0.4	22.	ND	NC	137.	NC	NC
18.15	582.	ND	10.8	2667.	1.01	0.6	35.	ND	NC	134.	NC	NC
18.30	612.	ND	10.2	2508.	1.02	1.0	57.	ND	NC	141.	NC	NC
18.45	617.	ND	10.4	2546.	1.01	0.7	41.	ND	NC	142.	NC	NC
18.60	592.	ND	11.7	2873.	1.02	1.9	64.	ND	NC	136.	NC	NC
18.75	591.	ND	10.4	2564.	1.01	0.6	34.	ND	NC	136.	NC	NC
18.90	612.	ND	8.2	2020.	1.00	0.	0.	ND	NC	141.	NC	NC
19.05	592.	ND	10.1	2485.	1.00	0.	0.	ND	NC	136.	NC	NC
19.20	575.	ND	11.4	2812.	1.01	0.3	19.	ND	NC	132.	NC	NC
19.35	604.	ND	7.2	1765.	1.01	0.5	18.	ND	NC	139.	NC	NC
19.50	604.	ND	8.6	2107.	1.01	0.3	14.	ND	NC	139.	NC	NC
19.65	575.	ND	10.3	2526.	1.01	0.4	20.	ND	NC	132.	NC	NC
19.80	606.	ND	9.2	2263.	1.01	0.4	23.	ND	NC	139.	NC	NC
19.95	603.	ND	7.1	1748.	1.01	0.4	16.	ND	NC	139.	NC	NC
20.10	577.	ND	10.4	2565.	1.00	0.	0.	ND	NC	133.	NC	NC
20.25	588.	ND	11.1	2740.	1.00	0.	0.	ND	NC	135.	NC	NC
20.40	567.	ND	6.6	1617.	1.00	0.	0.	ND	NC	130.	NC	NC
20.55	507.	ND	8.2	2025.	1.01	0.3	14.	ND	NC	117.	NC	NC
20.70	526.	ND	11.5	2829.	1.01	0.3	19.	ND	NC	121.	NC	NC
20.85	509.	ND	5.9	1441.	1.00	0.	0.	ND	NC	117.	NC	NC
21.00	481.	ND	4.5	1098.	1.00	0.	0.	ND	NC	111.	NC	NC
21.15	494.	ND	6.4	1564.	1.00	0.	0.	ND	NC	114.	NC	NC
21.30	547.	ND	8.9	2180.	1.00	0.	0.	ND	NC	126.	NC	NC
21.45	515.	ND	10.5	2577.	1.00	0.	0.	ND	NC	119.	NC	NC
21.60	517.	ND	9.7	2375.	1.03	1.5	79.	ND	NC	119.	NC	NC
21.75	545.	ND	8.3	2047.	1.02	1.3	57.	ND	NC	125.	NC	NC
21.90	520.	ND	9.9	2426.	1.02	0.9	50.	ND	NC	120.	NC	NC
22.05	520.	ND	10.7	2619.	1.01	0.6	36.	ND	NC	120.	NC	NC
22.20	551.	ND	9.7	2383.	1.01	0.6	29.	ND	NC	127.	NC	NC
22.35	520.	ND	7.5	1850.	1.01	0.5	20.	ND	NC	120.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	486.	ND	5.0	1224.	1.01	0.4	10.	ND	NC	112.	NC	NC
22.65	491.	ND	6.3	1557.	1.01	0.3	11.	ND	NC	113.	NC	NC
22.80	508.	ND	9.2	2262.	1.00	0.	0.	ND	NC	117.	NC	NC
22.95	487.	ND	6.1	1491.	1.00	0.	0.	ND	NC	112.	NC	NC
23.10	497.	ND	5.0	1227.	1.00	0.	0.	ND	NC	114.	NC	NC
23.25	512.	ND	6.0	1471.	1.01	0.3	10.	ND	NC	118.	NC	NC
23.40	512.	ND	9.0	2206.	1.00	0.	0.	ND	NC	118.	NC	NC
23.55	529.	ND	10.1	2488.	1.00	0.	0.	ND	NC	122.	NC	NC
23.70	512.	ND	10.3	2527.	1.03	1.8	102.	ND	NC	118.	NC	NC
23.85	507.	ND	10.5	2584.	1.07	3.8	216.	ND	NC	117.	NC	NC
24.00	509.	ND	10.2	2509.	1.06	3.5	194.	ND	NC	117.	NC	NC
24.15	523.	ND	10.5	2582.	1.04	2.3	131.	ND	NC	120.	NC	NC
24.30	506.	ND	10.5	2593.	1.03	1.9	105.	ND	NC	116.	NC	NC
24.45	511.	ND	10.3	2532.	1.04	2.6	141.	ND	NC	118.	NC	NC
24.60	536.	ND	10.2	2506.	1.05	3.1	168.	ND	NC	123.	NC	NC
24.75	512.	ND	10.3	2539.	1.04	2.5	141.	ND	NC	119.	NC	NC
24.90	527.	ND	10.1	2494.	1.03	1.6	86.	ND	NC	121.	NC	NC
25.05	546.	ND	10.2	2519.	1.02	1.5	80.	ND	NC	126.	NC	NC
25.20	523.	ND	10.2	2503.	1.03	2.0	112.	ND	NC	120.	NC	NC
25.35	516.	ND	9.8	2408.	1.06	3.4	179.	ND	NC	119.	NC	NC
25.50	531.	ND	9.9	2423.	1.05	3.2	171.	ND	NC	122.	NC	NC
25.65	534.	ND	9.8	2404.	1.05	2.7	140.	ND	NC	123.	NC	NC
25.80	514.	ND	9.4	2320.	1.06	3.4	170.	ND	NC	118.	NC	NC
25.95	529.	ND	9.0	2220.	1.07	4.2	205.	ND	NC	122.	NC	NC
26.10	523.	ND	9.0	2222.	1.09	5.3	259.	ND	NC	120.	NC	NC
26.25	513.	ND	9.6	2357.	1.09	5.5	281.	ND	NC	118.	NC	NC
26.40	524.	ND	9.3	2292.	1.09	5.2	260.	ND	NC	120.	NC	NC
26.55	507.	ND	9.9	2430.	1.08	4.7	252.	ND	NC	117.	NC	NC
26.70	509.	ND	10.2	2508.	1.09	5.4	295.	ND	NC	117.	NC	NC
26.85	532.	ND	9.5	2328.	1.08	4.9	247.	ND	NC	122.	NC	NC
27.00	521.	ND	10.0	2470.	1.07	4.2	227.	ND	NC	120.	NC	NC
27.15	503.	ND	10.4	2558.	1.06	3.4	188.	ND	NC	116.	NC	NC
27.30	523.	ND	10.4	2565.	1.05	3.2	179.	ND	NC	129.	NC	NC
27.45	536.	ND	10.4	2552.	1.05	2.9	161.	ND	NC	123.	NC	NC
27.60	504.	ND	10.5	2582.	1.04	2.5	140.	ND	NC	116.	NC	NC
27.75	502.	ND	10.4	2554.	1.04	2.2	123.	ND	NC	115.	NC	NC
27.90	538.	ND	10.3	2533.	1.04	2.1	118.	ND	NC	124.	NC	NC
28.05	533.	ND	10.6	2614.	1.03	2.0	115.	ND	NC	123.	NC	NC
28.20	520.	ND	10.3	2538.	1.03	1.6	87.	ND	NC	120.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	526.	ND	10.0	2460.	1.02	1.4	75.	ND	NC	121.	NC	NC
28.50	531.	ND	10.0	2450.	1.04	2.3	126.	ND	NC	122.	NC	NC
28.65	509.	ND	9.4	2318.	1.11	6.5	328.	ND	NC	117.	NC	NC
28.80	526.	ND	8.9	2180.	1.17	9.7	464.	ND	NC	121.	NC	NC
28.95	514.	ND	9.5	2346.	1.13	7.6	391.	ND	NC	118.	NC	NC
29.10	514.	ND	10.0	2465.	1.08	5.0	268.	ND	NC	118.	NC	NC
29.25	532.	ND	9.9	2443.	1.04	2.6	139.	ND	NC	122.	NC	NC
29.40	533.	ND	10.1	2472.	1.06	3.5	190.	ND	NC	123.	NC	NC
29.55	518.	ND	10.3	2525.	1.12	6.9	383.	ND	NC	119.	NC	NC
29.70	525.	ND	9.7	2397.	1.10	6.0	312.	ND	NC	121.	NC	NC
29.85	534.	ND	9.8	2413.	1.10	6.1	320.	ND	NC	123.	NC	NC
30.00	520.	ND	10.3	2530.	1.10	5.6	311.	ND	NC	120.	NC	NC
30.15	532.	ND	10.2	2513.	1.07	4.4	239.	ND	NC	122.	NC	NC
30.30	531.	ND	9.7	2384.	1.08	4.6	240.	ND	NC	122.	NC	NC
30.45	515.	ND	10.2	2498.	1.08	4.9	267.	ND	NC	118.	NC	NC
30.60	513.	ND	10.0	2466.	1.08	4.9	267.	ND	NC	117.	NC	NC
30.75	539.	ND	10.0	2458.	1.06	3.6	193.	ND	NC	124.	NC	NC
30.90	530.	ND	10.7	2641.	1.04	2.6	150.	ND	NC	122.	NC	NC
31.05	521.	ND	10.4	2568.	1.05	2.8	159.	ND	NC	120.	NC	NC
31.20	533.	ND	10.5	2590.	1.05	2.7	154.	ND	NC	123.	NC	NC
31.35	527.	ND	10.7	2624.	1.05	2.8	161.	ND	NC	121.	NC	NC
31.50	518.	ND	10.6	2619.	1.04	2.2	127.	ND	NC	119.	NC	NC
31.65	534.	ND	10.7	2629.	1.03	1.7	97.	ND	NC	123.	NC	NC
31.80	530.	ND	10.8	2652.	1.03	1.6	90.	ND	NC	122.	NC	NC
31.95	515.	ND	11.1	2739.	1.03	1.9	115.	ND	NC	118.	NC	NC
32.10	536.	ND	10.4	2547.	1.04	2.3	129.	ND	NC	123.	NC	NC
32.25	514.	ND	10.6	2598.	1.04	2.1	121.	ND	NC	118.	NC	NC
32.40	508.	ND	10.9	2690.	1.03	1.8	108.	ND	NC	117.	NC	NC
32.55	524.	ND	10.7	2642.	1.03	1.8	104.	ND	NC	120.	NC	NC
32.70	527.	ND	10.6	2662.	1.03	1.8	104.	ND	NC	121.	NC	NC
32.85	508.	ND	10.5	2578.	1.06	3.6	204.	ND	NC	117.	NC	NC
33.00	510.	ND	10.2	2509.	1.05	3.2	175.	ND	NC	117.	NC	NC
33.15	537.	ND	10.1	2481.	1.05	2.7	146.	ND	NC	123.	NC	NC
33.30	515.	ND	10.3	2531.	1.07	4.2	231.	ND	NC	118.	NC	NC
33.45	509.	ND	9.5	2331.	1.13	7.6	386.	ND	NC	117.	NC	NC
33.60	533.	ND	9.2	2264.	1.16	9.6	473.	ND	NC	123.	NC	NC
33.75	520.	ND	9.5	2333.	1.18	10.7	548.	ND	NC	120.	NC	NC
33.90	514.	ND	9.9	2430.	1.12	7.1	378.	ND	NC	118.	NC	NC
34.05	526.	ND	10.0	2466.	1.08	4.5	245.	ND	NC	121.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	535.	ND	10.1	2475.	1.11	6.5	349.	ND	NC	123.	NC	NC
34.35	507.	ND	9.8	2414.	1.14	8.3	439.	ND	NC	117.	NC	NC
34.50	523.	ND	9.7	2374.	1.14	8.3	429.	ND	NC	120.	NC	NC
34.65	530.	ND	9.9	2431.	1.12	6.8	360.	ND	NC	122.	NC	NC
34.80	517.	ND	10.4	2561.	1.08	4.5	254.	ND	NC	119.	NC	NC
34.95	531.	ND	9.6	2370.	1.09	5.6	288.	ND	NC	122.	NC	NC
35.10	515.	ND	9.7	2388.	1.10	6.1	320.	ND	NC	118.	NC	NC
35.25	519.	ND	9.9	2427.	1.11	6.2	328.	ND	NC	119.	NC	NC
35.40	531.	ND	9.9	2427.	1.08	4.8	254.	ND	NC	122.	NC	NC
35.55	541.	ND	9.9	2434.	1.06	3.4	180.	ND	NC	124.	NC	NC
35.70	501.	ND	10.2	2502.	1.09	5.2	283.	ND	NC	115.	NC	NC
35.85	499.	ND	10.0	2451.	1.10	5.9	317.	ND	NC	115.	NC	NC
36.00	504.	ND	9.6	2368.	1.11	6.8	349.	ND	NC	116.	NC	NC
36.15	506.	ND	9.7	2397.	1.13	7.8	409.	ND	NC	116.	NC	NC
36.30	505.	ND	10.2	2498.	1.09	5.2	282.	ND	NC	116.	NC	NC
36.45	538.	ND	10.1	2482.	1.06	3.5	192.	ND	NC	124.	NC	NC
36.60	529.	ND	10.2	2498.	1.08	4.7	257.	ND	NC	120.	NC	NC
36.75	511.	ND	10.3	2526.	1.11	6.4	353.	ND	NC	117.	NC	NC
36.90	520.	ND	9.7	2385.	1.11	6.5	340.	ND	NC	120.	NC	NC
37.05	515.	ND	10.1	2482.	1.07	4.2	229.	ND	NC	118.	NC	NC
37.20	497.	ND	10.7	2622.	1.06	3.6	208.	ND	NC	114.	NC	NC
37.35	529.	ND	10.0	2460.	1.07	4.1	220.	ND	NC	122.	NC	NC
37.50	509.	ND	9.6	2363.	1.08	4.4	229.	ND	NC	117.	NC	NC
37.65	500.	ND	9.6	2368.	1.07	4.1	211.	ND	NC	115.	NC	NC
37.80	515.	ND	9.7	2378.	1.05	3.1	159.	ND	NC	118.	NC	NC
37.95	526.	ND	10.0	2455.	1.04	2.3	124.	ND	NC	121.	NC	NC
38.10	513.	ND	9.8	2408.	1.06	3.4	181.	ND	NC	118.	NC	NC
38.25	516.	ND	9.3	2294.	1.06	3.3	164.	ND	NC	119.	NC	NC
38.40	514.	ND	9.3	2281.	1.05	2.9	146.	ND	NC	118.	NC	NC
38.55	501.	ND	9.4	2318.	1.04	2.5	126.	ND	NC	115.	NC	NC
38.70	499.	ND	9.6	2364.	1.03	2.0	102.	ND	NC	115.	NC	NC
38.85	541.	ND	9.3	2279.	1.03	1.9	96.	ND	NC	125.	NC	NC
39.00	505.	ND	9.0	2221.	1.05	3.0	145.	ND	NC	116.	NC	NC
39.15	504.	ND	8.6	2105.	1.08	4.5	208.	ND	NC	116.	NC	NC
39.30	525.	ND	8.5	2092.	1.09	5.1	235.	ND	NC	121.	NC	NC
39.45	524.	ND	8.7	2150.	1.07	4.2	199.	ND	NC	120.	NC	NC
39.60	505.	ND	8.7	2141.	1.09	5.5	258.	ND	NC	116.	NC	NC
39.75	518.	ND	8.5	2086.	1.11	6.8	308.	ND	NC	119.	NC	NC
39.90	528.	ND	8.5	2102.	1.13	7.4	341.	ND	NC	121.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	503.	ND	8.7	2132.	1.12	6.8	316.	ND	NC	116.	NC	NC
40.20	506.	ND	8.8	2161.	1.07	4.2	198.	ND	NC	116.	NC	NC
40.35	512.	ND	9.0	2210.	1.07	3.9	190.	ND	NC	118.	NC	NC
40.50	508.	ND	9.1	2226.	1.09	5.1	246.	ND	NC	117.	NC	NC
40.65	511.	ND	8.5	2100.	1.09	5.5	254.	ND	NC	118.	NC	NC
40.80	531.	ND	8.1	1998.	1.13	7.9	346.	ND	NC	122.	NC	NC
40.95	485.	ND	8.5	2103.	1.09	5.3	242.	ND	NC	111.	NC	NC
41.10	505.	ND	8.4	2069.	1.08	4.7	213.	ND	NC	116.	NC	NC
41.25	521.	ND	8.4	2070.	1.09	5.4	244.	ND	NC	120.	NC	NC
41.40	502.	ND	8.5	2100.	1.12	7.3	335.	ND	NC	115.	NC	NC
41.55	515.	ND	8.6	2115.	1.10	6.1	282.	ND	NC	118.	NC	NC
41.70	533.	ND	8.9	2182.	1.07	4.1	195.	ND	NC	123.	NC	NC
41.85	514.	ND	9.0	2214.	1.06	3.7	178.	ND	NC	118.	NC	NC
42.00	497.	ND	8.9	2182.	1.07	4.2	201.	ND	NC	114.	NC	NC
42.15	512.	ND	8.9	2192.	1.07	4.3	205.	ND	NC	118.	NC	NC
42.30	512.	ND	9.0	2218.	1.08	4.6	225.	ND	NC	118.	NC	NC
42.45	494.	ND	9.0	2220.	1.06	3.7	179.	ND	NC	114.	NC	NC
42.60	525.	ND	9.0	2218.	1.05	3.1	149.	ND	NC	121.	NC	NC
42.75	519.	ND	9.0	2219.	1.04	2.6	126.	ND	NC	119.	NC	NC
42.90	511.	ND	9.1	2229.	1.08	4.5	217.	ND	NC	118.	NC	NC
43.05	527.	ND	8.9	2178.	1.08	4.6	217.	ND	NC	121.	NC	NC
43.20	499.	ND	9.2	2269.	1.07	4.4	218.	ND	NC	115.	NC	NC
43.35	508.	ND	9.6	2355.	1.04	2.6	136.	ND	NC	117.	NC	NC
43.50	529.	ND	9.1	2240.	1.05	3.1	153.	ND	NC	122.	NC	NC
43.65	510.	ND	9.4	2300.	1.07	4.0	199.	ND	NC	117.	NC	NC
43.80	501.	ND	9.2	2274.	1.08	4.5	225.	ND	NC	115.	NC	NC
43.95	512.	ND	9.1	2246.	1.06	3.8	186.	ND	NC	118.	NC	NC
44.10	531.	ND	9.2	2252.	1.05	3.0	146.	ND	NC	122.	NC	NC
44.25	509.	ND	9.2	2266.	1.06	3.5	172.	ND	NC	117.	NC	NC
44.40	494.	ND	8.9	2182.	1.08	4.5	216.	ND	NC	114.	NC	NC
44.55	533.	ND	9.0	2210.	1.08	4.4	214.	ND	NC	123.	NC	NC
44.70	506.	ND	9.1	2244.	1.08	4.4	218.	ND	NC	116.	NC	NC
44.85	497.	ND	9.2	2258.	1.05	2.9	144.	ND	NC	114.	NC	NC
45.00	516.	ND	8.9	2190.	1.04	2.4	117.	ND	NC	119.	NC	NC
45.15	523.	ND	8.7	2147.	1.10	5.8	272.	ND	NC	120.	NC	NC
45.30	502.	ND	8.7	2128.	1.12	7.2	333.	ND	NC	116.	NC	NC
45.45	522.	ND	8.7	2151.	1.11	6.5	304.	ND	NC	120.	NC	NC
45.60	530.	ND	9.2	2268.	1.08	4.7	234.	ND	NC	122.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 11 78
RUN NUMBER- 23
SEGMENT NUMBER- 2
WATER DEPTH- 25 TO 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	496.	ND	9.9	2425.	1.02	1.3	70.	ND	NC	114.	NC	NC
0.15	500.	ND	10.3	2525.	1.02	1.1	60.	ND	NC	115.	NC	NC
0.30	475.	ND	10.1	2479.	1.02	1.1	57.	ND	NC	109.	NC	NC
0.45	486.	ND	10.0	2448.	1.02	1.1	60.	ND	NC	112.	NC	NC
0.60	497.	ND	10.1	2480.	1.02	1.2	65.	ND	NC	114.	NC	NC
0.75	482.	ND	10.1	2495.	1.02	1.2	65.	ND	NC	111.	NC	NC
0.90	482.	ND	9.9	2438.	1.02	1.1	60.	ND	NC	111.	NC	NC
1.05	509.	ND	9.9	2426.	1.02	1.2	61.	ND	NC	117.	NC	NC
1.20	479.	ND	10.0	2464.	1.02	1.3	70.	ND	NC	110.	NC	NC
1.35	481.	ND	10.0	2467.	1.03	1.5	79.	ND	NC	111.	NC	NC
1.50	508.	ND	10.0	2460.	1.02	1.4	73.	ND	NC	117.	NC	NC
1.65	488.	ND	10.1	2488.	1.02	1.3	72.	ND	NC	112.	NC	NC
1.80	490.	ND	10.1	2473.	1.02	1.4	76.	ND	NC	113.	NC	NC
1.95	511.	ND	10.0	2454.	1.02	1.3	69.	ND	NC	118.	NC	NC
2.10	454.	ND	10.1	2474.	1.02	1.4	73.	ND	NC	114.	NC	NC
2.25	479.	ND	10.0	2454.	1.02	1.3	69.	ND	NC	110.	NC	NC
2.40	495.	ND	9.9	2446.	1.02	1.3	72.	ND	NC	114.	NC	NC
2.55	512.	ND	9.9	2447.	1.02	1.5	78.	ND	NC	118.	NC	NC
2.70	489.	ND	9.8	2415.	1.02	1.4	74.	ND	NC	112.	NC	NC
2.85	499.	ND	9.6	2358.	1.02	1.4	73.	ND	NC	115.	NC	NC
3.00	501.	ND	9.8	2416.	1.02	1.5	77.	ND	NC	115.	NC	NC
3.15	486.	ND	9.7	2389.	1.02	1.4	74.	ND	NC	112.	NC	NC
3.30	478.	ND	9.3	2289.	1.02	1.3	64.	ND	NC	110.	NC	NC
3.45	472.	ND	9.2	2266.	1.02	0.9	46.	ND	NC	109.	NC	NC
3.60	457.	ND	9.1	2240.	1.02	1.0	49.	ND	NC	105.	NC	NC
3.75	458.	ND	8.7	2144.	1.02	1.2	57.	ND	NC	105.	NC	NC
3.90	473.	ND	8.6	2116.	1.02	1.4	63.	ND	NC	109.	NC	NC
4.05	448.	ND	8.5	2091.	1.02	1.3	57.	ND	NC	103.	NC	NC
4.20	439.	ND	8.4	2067.	1.02	1.1	53.	ND	NC	101.	NC	NC
4.35	464.	ND	8.7	2145.	1.02	1.3	59.	ND	NC	107.	NC	NC
4.50	474.	ND	8.7	2130.	1.03	1.5	69.	ND	NC	109.	NC	NC
4.65	444.	ND	8.4	2077.	1.02	1.3	60.	ND	NC	102.	NC	NC
4.80	447.	ND	8.6	2111.	1.03	1.6	74.	ND	NC	103.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	484.	ND	8.6	2117.	1.03	1.6	72.	ND	NC	111.	NC	NC
5.10	437.	ND	8.4	2061.	1.02	1.2	54.	ND	NC	101.	NC	NC
5.25	439.	ND	8.4	2053.	1.03	1.8	80.	ND	NC	101.	NC	NC
5.40	478.	ND	8.8	2153.	1.03	1.8	84.	ND	NC	110.	NC	NC
5.55	435.	ND	8.4	2057.	1.02	1.4	64.	ND	NC	100.	NC	NC
5.70	488.	ND	8.2	2007.	1.02	1.2	54.	ND	NC	112.	NC	NC
5.85	546.	ND	9.0	2217.	1.02	1.4	67.	ND	NC	126.	NC	NC
6.00	571.	ND	9.4	2319.	1.03	1.6	79.	ND	NC	131.	NC	NC
6.15	543.	ND	8.6	2125.	1.03	1.8	85.	ND	NC	125.	NC	NC
6.30	556.	ND	8.2	2016.	1.14	8.2	359.	ND	NC	128.	NC	NC
6.45	559.	ND	8.3	2044.	1.13	7.4	331.	ND	NC	128.	NC	NC
6.60	592.	ND	8.3	2044.	1.10	5.7	254.	ND	NC	136.	NC	NC
6.75	622.	ND	8.4	2065.	1.13	7.7	349.	ND	NC	143.	NC	NC
6.90	594.	ND	7.7	1903.	1.19	11.3	468.	ND	NC	137.	NC	NC
7.05	598.	ND	7.0	1714.	1.24	14.2	531.	ND	NC	137.	NC	NC
7.20	633.	ND	7.6	1862.	1.28	16.5	672.	ND	NC	146.	NC	NC
7.35	636.	ND	7.9	1939.	1.21	12.3	521.	ND	NC	146.	NC	NC
7.50	613.	ND	8.1	1989.	1.24	13.9	604.	ND	NC	141.	NC	NC
7.65	632.	ND	8.3	2045.	1.26	15.5	692.	ND	NC	145.	NC	NC
7.80	649.	ND	8.5	2083.	1.27	15.9	721.	ND	NC	149.	NC	NC
7.95	637.	ND	8.4	2063.	1.22	12.9	579.	ND	NC	146.	NC	NC
8.10	656.	ND	8.7	2132.	1.16	9.2	429.	ND	NC	151.	NC	NC
8.25	687.	ND	9.3	2275.	1.13	7.8	386.	ND	NC	158.	NC	NC
8.40	668.	ND	9.2	2262.	1.14	8.2	408.	ND	NC	154.	NC	NC
8.55	659.	ND	8.8	2175.	1.16	9.6	458.	ND	NC	152.	NC	NC
8.70	673.	ND	9.0	2213.	1.19	11.4	549.	ND	NC	155.	NC	NC
8.85	679.	ND	9.1	2244.	1.16	9.3	457.	ND	NC	156.	NC	NC
9.00	670.	ND	8.8	2163.	1.17	10.2	481.	ND	NC	154.	NC	NC
9.15	676.	ND	8.5	2079.	1.22	13.1	595.	ND	NC	155.	NC	NC
9.30	674.	ND	8.4	2055.	1.20	11.8	530.	ND	NC	155.	NC	NC
9.45	681.	ND	8.5	2084.	1.18	10.6	482.	ND	NC	157.	NC	NC
9.60	694.	ND	7.9	1953.	1.16	9.2	392.	ND	NC	160.	NC	NC
9.75	640.	ND	6.6	1614.	1.10	6.2	218.	ND	NC	147.	NC	NC
9.90	575.	ND	3.7	906.	1.07	3.9	78.	ND	NC	132.	NC	NC
10.05	613.	ND	5.7	1413.	1.25	14.6	450.	ND	NC	141.	NC	NC
10.20	636.	ND	7.6	1867.	1.06	3.8	154.	ND	NC	146.	NC	NC
10.35	615.	ND	8.4	2076.	1.04	2.1	95.	ND	NC	141.	NC	NC
10.50	601.	ND	8.6	2106.	1.05	3.0	139.	ND	NC	138.	NC	NC
10.65	660.	ND	8.6	2126.	1.12	6.9	321.	ND	NC	152.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

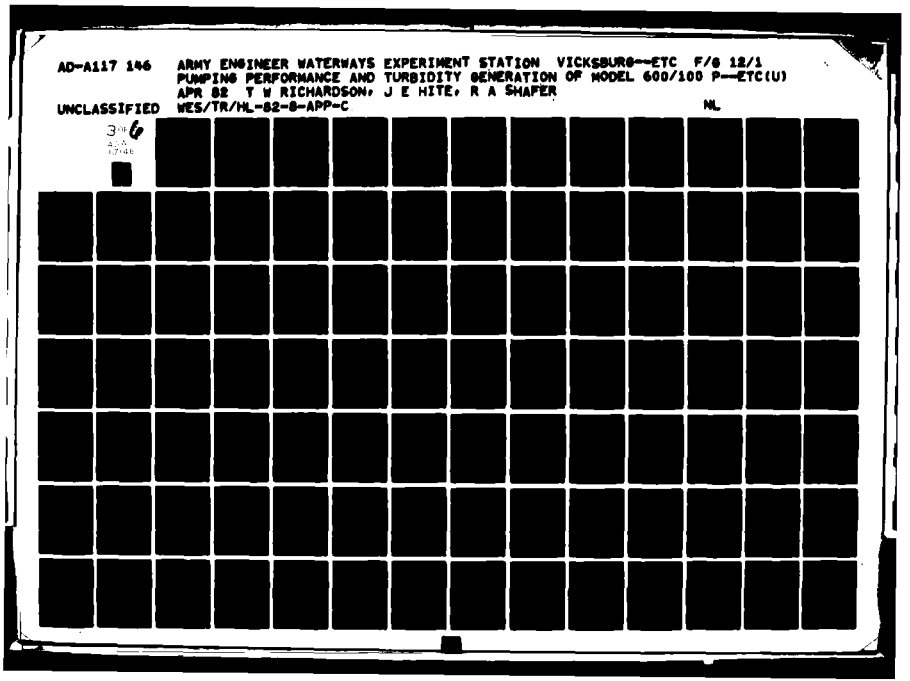
TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	640.	ND	9.2	2264.	1.20	11.7	581.	ND	NC	147.	NC	NC
10.95	623.	ND	9.7	2385.	1.11	6.6	345.	ND	NC	143.	NC	NC
11.10	652.	ND	10.1	2476.	1.08	4.7	252.	ND	NC	150.	NC	NC
11.25	644.	ND	10.4	2556.	1.07	4.0	222.	ND	NC	148.	NC	NC
11.40	633.	ND	9.2	2255.	1.07	4.2	205.	ND	NC	146.	NC	NC
11.55	643.	ND	9.4	2312.	1.03	1.5	77.	ND	NC	148.	NC	NC
11.70	647.	ND	10.1	2485.	1.04	2.4	131.	ND	NC	149.	NC	NC
11.85	645.	ND	10.3	2523.	1.03	1.8	97.	ND	NC	148.	NC	NC
12.00	644.	ND	9.7	2392.	1.03	1.5	79.	ND	NC	148.	NC	NC
12.15	603.	ND	7.6	1871.	1.02	1.3	53.	ND	NC	139.	NC	NC
12.30	602.	ND	7.3	1796.	1.01	0.6	25.	ND	NC	138.	NC	NC
12.45	645.	ND	8.8	2165.	1.01	0.4	21.	ND	NC	148.	NC	NC
12.60	642.	ND	10.1	2492.	1.01	0.5	26.	ND	NC	148.	NC	NC
12.75	601.	ND	11.3	2777.	1.02	1.1	69.	ND	NC	138.	NC	NC
12.90	611.	ND	5.6	1622.	1.02	1.3	46.	ND	NC	141.	NC	NC
13.05	602.	ND	4.7	1159.	1.02	1.0	25.	ND	NC	138.	NC	NC
13.20	575.	ND	6.1	1493.	1.04	2.2	70.	ND	NC	132.	NC	NC
13.35	609.	ND	8.6	2117.	1.03	2.0	92.	ND	NC	140.	NC	NC
13.50	655.	ND	10.2	2505.	1.04	2.1	114.	ND	NC	151.	NC	NC
13.65	616.	ND	9.6	2372.	1.07	4.2	219.	ND	NC	142.	NC	NC
13.80	614.	ND	7.3	1787.	1.11	6.2	242.	ND	NC	141.	NC	NC
13.95	650.	ND	8.3	2051.	1.03	2.0	89.	ND	NC	149.	NC	NC
14.10	666.	ND	10.0	2464.	1.04	2.2	118.	ND	NC	153.	NC	NC
14.25	631.	ND	10.5	2591.	1.01	0.8	46.	ND	NC	145.	NC	NC
14.40	625.	ND	9.1	2234.	1.02	1.2	60.	ND	NC	144.	NC	NC
14.55	620.	ND	6.5	1607.	1.02	1.1	40.	ND	NC	143.	NC	NC
14.70	625.	ND	7.2	1770.	1.01	0.8	32.	ND	NC	144.	NC	NC
14.85	653.	ND	9.7	2385.	1.01	0.4	23.	ND	NC	150.	NC	NC
15.00	645.	ND	10.8	2668.	1.01	0.8	47.	ND	NC	148.	NC	NC
15.15	623.	ND	11.6	2849.	1.02	1.2	77.	ND	NC	143.	NC	NC
15.30	611.	ND	6.8	1682.	1.02	1.3	47.	ND	NC	140.	NC	NC
15.45	637.	ND	7.7	1884.	1.01	0.6	26.	ND	NC	146.	NC	NC
15.60	631.	ND	10.5	2572.	1.01	0.4	22.	ND	NC	145.	NC	NC
15.75	644.	ND	10.3	2531.	1.01	0.3	17.	ND	NC	148.	NC	NC
15.90	644.	ND	9.9	2444.	1.03	1.5	79.	ND	NC	148.	NC	NC
16.05	582.	ND	9.1	2241.	1.02	1.3	65.	ND	NC	134.	NC	NC
16.20	596.	ND	6.3	1561.	1.01	0.5	17.	ND	NC	137.	NC	NC
16.35	648.	ND	9.1	2248.	1.01	0.6	27.	ND	NC	149.	NC	NC
16.50	649.	ND	10.1	2493.	1.01	0.8	43.	ND	NC	149.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	626.	ND	10.6	2612.	1.03	1.6	89.	ND	NC	144.	NC	NC
16.80	644.	ND	9.7	2380.	1.05	2.8	144.	ND	NC	148.	NC	NC
16.95	658.	ND	10.6	2613.	1.01	0.8	48.	ND	NC	151.	NC	NC
17.10	629.	ND	10.8	2648.	1.01	0.9	50.	ND	NC	145.	NC	NC
17.25	647.	ND	11.0	2700.	1.02	1.0	62.	ND	NC	149.	NC	NC
17.40	645.	ND	11.6	2856.	1.01	0.7	42.	ND	NC	148.	NC	NC
17.55	562.	ND	9.8	2398.	1.01	0.6	30.	ND	NC	129.	NC	NC
17.70	554.	ND	6.7	1637.	1.01	0.5	18.	ND	NC	127.	NC	NC
17.85	549.	ND	8.1	1982.	1.01	0.5	21.	ND	NC	126.	NC	NC
18.00	553.	ND	9.9	2425.	1.01	0.5	27.	ND	NC	127.	NC	NC
18.15	570.	ND	9.9	2440.	1.01	0.8	45.	ND	NC	131.	NC	NC
18.30	561.	ND	9.8	2402.	1.03	1.7	90.	ND	NC	129.	NC	NC
18.45	553.	ND	9.7	2389.	1.05	2.9	149.	ND	NC	127.	NC	NC
18.60	562.	ND	9.7	2376.	1.05	2.8	145.	ND	NC	129.	NC	NC
18.75	589.	ND	9.6	2368.	1.04	2.4	125.	ND	NC	136.	NC	NC
18.90	556.	ND	10.0	2453.	1.03	1.5	83.	ND	NC	128.	NC	NC
19.05	540.	ND	9.7	2380.	1.02	1.1	56.	ND	NC	124.	NC	NC
19.20	576.	ND	9.6	2365.	1.02	1.0	53.	ND	NC	132.	NC	NC
19.35	569.	ND	9.9	2426.	1.02	1.2	64.	ND	NC	131.	NC	NC
19.50	554.	ND	10.1	2478.	1.02	1.3	68.	ND	NC	127.	NC	NC
19.65	566.	ND	10.2	2497.	1.02	1.1	60.	ND	NC	130.	NC	NC
19.80	582.	ND	10.0	2459.	1.02	1.3	69.	ND	NC	134.	NC	NC
19.95	560.	ND	9.8	2407.	1.03	1.5	79.	ND	NC	129.	NC	NC
20.10	570.	ND	9.7	2386.	1.03	1.6	81.	ND	NC	131.	NC	NC
20.25	573.	ND	10.0	2464.	1.02	1.0	56.	ND	NC	132.	NC	NC
20.40	544.	ND	10.1	2474.	1.02	1.0	56.	ND	NC	125.	NC	NC
20.55	562.	ND	9.8	2401.	1.02	1.1	59.	ND	NC	129.	NC	NC
20.70	570.	ND	10.0	2460.	1.02	1.2	65.	ND	NC	131.	NC	NC
20.85	559.	ND	10.1	2481.	1.02	1.1	58.	ND	NC	128.	NC	NC
21.00	569.	ND	10.0	2463.	1.01	0.7	37.	ND	NC	131.	NC	NC
21.15	561.	ND	10.3	2524.	1.01	0.5	29.	ND	NC	129.	NC	NC
21.30	555.	ND	10.3	2540.	1.02	1.0	56.	ND	NC	128.	NC	NC
21.45	572.	ND	10.1	2496.	1.01	0.8	41.	ND	NC	131.	NC	NC
21.60	590.	ND	10.4	2569.	1.01	0.5	26.	ND	NC	136.	NC	NC
21.75	536.	ND	10.7	2627.	1.01	0.4	24.	ND	NC	124.	NC	NC
21.90	557.	ND	10.6	2604.	1.01	0.4	23.	ND	NC	128.	NC	NC
22.05	591.	ND	10.5	2584.	1.01	0.4	25.	ND	NC	136.	NC	NC
22.20	577.	ND	10.9	2677.	1.01	0.7	43.	ND	NC	133.	NC	NC
22.35	522.	ND	10.8	2657.	1.01	0.5	28.	ND	NC	120.	NC	NC

AD-A117 146 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER

UNCLASSIFIED WES/TR/HL-82-8-APP-C NL



RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	497.	ND	10.0	2450.	1.01	0.3	17.	ND	NC	114.	NC	NC
22.65	501.	ND	9.9	2447.	1.01	0.3	16.	ND	NC	115.	NC	NC
22.80	476.	ND	10.4	2556.	1.01	0.5	28.	ND	NC	119.	NC	NC
22.95	489.	ND	10.1	2493.	1.01	0.5	29.	ND	NC	112.	NC	NC
23.10	472.	ND	9.8	2420.	1.01	0.8	43.	ND	NC	109.	NC	NC
23.25	472.	ND	10.2	2504.	1.02	1.0	57.	ND	NC	109.	NC	NC
23.40	492.	ND	10.1	2480.	1.02	1.3	68.	ND	NC	113.	NC	NC
23.55	480.	ND	10.0	2456.	1.02	1.4	74.	ND	NC	110.	NC	NC
23.70	472.	ND	9.8	2409.	1.02	1.3	69.	ND	NC	109.	NC	NC
23.85	479.	ND	9.8	2408.	1.02	1.2	61.	ND	NC	110.	NC	NC
24.00	504.	ND	9.9	2436.	1.02	1.2	65.	ND	NC	116.	NC	NC
24.15	475.	ND	10.1	2488.	1.02	1.4	75.	ND	NC	109.	NC	NC
24.30	475.	ND	10.1	2477.	1.02	1.2	65.	ND	NC	109.	NC	NC
24.45	500.	ND	9.7	2392.	1.02	1.2	64.	ND	NC	115.	NC	NC
24.60	470.	ND	10.3	2544.	1.02	1.3	71.	ND	NC	108.	NC	NC
24.75	478.	ND	10.3	2544.	1.02	1.4	77.	ND	NC	110.	NC	NC
24.90	508.	ND	10.2	2502.	1.02	1.3	72.	ND	NC	117.	NC	NC
25.05	468.	ND	10.1	2496.	1.02	1.3	72.	ND	NC	108.	NC	NC
25.20	472.	ND	10.1	2490.	1.02	1.4	76.	ND	NC	109.	NC	NC
25.35	489.	ND	10.2	2501.	1.02	1.3	74.	ND	NC	112.	NC	NC
25.50	508.	ND	10.4	2556.	1.02	1.4	78.	ND	NC	117.	NC	NC
25.65	491.	ND	10.4	2545.	1.02	1.1	63.	ND	NC	113.	NC	NC
25.80	495.	ND	10.1	2476.	1.02	1.1	62.	ND	NC	114.	NC	NC
25.95	496.	ND	10.2	2510.	1.02	1.2	65.	ND	NC	114.	NC	NC
26.10	487.	ND	10.2	2520.	1.02	1.2	69.	ND	NC	112.	NC	NC
26.25	491.	ND	10.1	2488.	1.02	1.4	75.	ND	NC	113.	NC	NC
26.40	498.	ND	10.4	2546.	1.02	1.4	75.	ND	NC	115.	NC	NC
26.55	470.	ND	10.4	2548.	1.02	1.3	71.	ND	NC	108.	NC	NC
26.70	487.	ND	10.3	2534.	1.02	1.3	74.	ND	NC	112.	NC	NC
26.85	488.	ND	10.0	2451.	1.03	1.5	79.	ND	NC	112.	NC	NC
27.00	472.	ND	10.4	2552.	1.03	1.5	83.	ND	NC	109.	NC	NC
27.15	482.	ND	10.2	2512.	1.02	1.3	74.	ND	NC	111.	NC	NC
27.30	502.	ND	10.1	2492.	1.02	1.4	74.	ND	NC	115.	NC	NC
27.45	476.	ND	10.4	2565.	1.02	1.4	78.	ND	NC	109.	NC	NC
27.60	474.	ND	10.1	2481.	1.02	1.3	72.	ND	NC	109.	NC	NC
27.75	506.	ND	9.4	2320.	1.02	1.4	72.	ND	NC	116.	NC	NC
27.90	483.	ND	10.6	2602.	1.05	3.2	180.	ND	NC	111.	NC	NC
28.05	471.	ND	10.6	2616.	1.04	2.6	147.	ND	NC	108.	NC	NC
28.20	502.	ND	10.6	2598.	1.03	1.9	110.	ND	NC	115.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	520.	ND	10.4	2569.	1.06	3.5	198.	ND	NC	120.	NC	NC
28.50	510.	ND	8.3	2030.	1.02	1.3	57.	ND	NC	117.	NC	NC
28.65	515.	ND	5.6	1384.	1.02	1.2	36.	ND	NC	118.	NC	NC
28.80	493.	ND	4.2	1027.	1.02	1.0	23.	ND	NC	113.	NC	NC
28.95	450.	ND	5.4	1317.	1.01	0.6	18.	ND	NC	104.	NC	NC
29.10	501.	ND	8.3	2052.	1.01	0.5	22.	ND	NC	115.	NC	NC
29.25	517.	ND	8.6	2127.	1.01	0.5	24.	ND	NC	119.	NC	NC
29.40	496.	ND	4.4	1080.	1.01	0.4	9.	ND	NC	114.	NC	NC
29.55	418.	ND	3.8	928.	1.01	0.4	9.	ND	NC	96.	NC	NC
29.70	423.	ND	4.9	1195.	1.01	0.3	8.	ND	NC	97.	NC	NC
29.85	401.	ND	5.2	1273.	1.00	0.	0.	ND	NC	92.	NC	NC
30.00	465.	ND	5.7	1405.	1.01	0.4	11.	ND	NC	107.	NC	NC
30.15	470.	ND	6.8	1673.	1.00	0.	0.	ND	NC	108.	NC	NC
30.30	384.	ND	3.5	859.	1.01	0.5	10.	ND	NC	88.	NC	NC
30.45	333.	ND	3.6	879.	1.01	0.4	8.	ND	NC	77.	NC	NC
30.60	399.	ND	5.3	1315.	1.01	0.4	12.	ND	NC	92.	NC	NC
30.75	416.	ND	7.6	1867.	1.01	0.5	20.	ND	NC	94.	NC	NC
30.90	393.	ND	8.7	2132.	1.01	0.9	41.	ND	NC	90.	NC	NC
31.05	410.	ND	8.7	2142.	1.04	2.3	108.	ND	NC	94.	NC	NC
31.20	419.	ND	9.3	2290.	1.03	1.9	96.	ND	NC	95.	NC	NC
31.35	394.	ND	9.4	2304.	1.03	1.7	87.	ND	NC	91.	NC	NC
31.50	408.	ND	8.9	2198.	1.03	2.0	98.	ND	NC	94.	NC	NC
31.65	387.	ND	8.9	2190.	1.04	2.6	124.	ND	NC	89.	NC	NC
31.80	368.	ND	7.7	1900.	1.05	2.8	116.	ND	NC	85.	NC	NC
31.95	383.	ND	7.8	1918.	1.04	2.2	94.	ND	NC	88.	NC	NC
32.10	383.	ND	8.2	2026.	1.03	1.8	81.	ND	NC	88.	NC	NC
32.25	354.	ND	7.5	1845.	1.03	1.8	72.	ND	NC	82.	NC	NC
32.40	359.	ND	7.3	1785.	1.04	2.2	86.	ND	NC	82.	NC	NC
32.55	394.	ND	7.2	1767.	1.05	3.0	116.	ND	NC	91.	NC	NC
32.70	346.	ND	7.0	1719.	1.04	2.6	98.	ND	NC	79.	NC	NC
32.85	346.	ND	6.9	1693.	1.04	2.2	82.	ND	NC	80.	NC	NC
33.00	389.	ND	7.1	1739.	1.03	1.9	72.	ND	NC	89.	NC	NC
33.15	337.	ND	6.9	1691.	1.03	1.8	66.	ND	NC	77.	NC	NC
33.30	328.	ND	6.5	1589.	1.03	1.9	66.	ND	NC	76.	NC	NC
33.45	375.	ND	6.8	1664.	1.05	2.8	102.	ND	NC	86.	NC	NC
33.60	455.	ND	7.2	1780.	1.04	2.5	97.	ND	NC	105.	NC	NC
33.75	501.	ND	7.9	1936.	1.04	2.1	89.	ND	NC	115.	NC	NC
33.90	556.	ND	8.5	2088.	1.03	1.9	86.	ND	NC	128.	NC	NC
34.05	602.	ND	8.9	2177.	1.05	2.9	140.	ND	NC	138.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	565.	ND	8.2	2012.	1.08	4.7	205.	ND	NC	130.	NC	NC
34.35	573.	ND	8.2	2008.	1.14	8.0	351.	ND	NC	132.	NC	NC
34.50	620.	ND	8.6	2104.	1.16	9.4	430.	ND	NC	143.	NC	NC
34.65	608.	ND	8.6	2107.	1.11	6.6	305.	ND	NC	140.	NC	NC
34.8[illegible]	617.	ND	8.2	2011.	1.10	5.6	246.	ND	NC	142.	NC	NC
34.95	626.	ND	8.4	2056.	1.24	14.4	645.	ND	NC	144.	NC	NC
35.1[illegible]	633.	ND	7.8	1913.	1.32	18.5	774.	ND	NC	146.	NC	NC
35.25	675.	ND	8.1	1999.	1.31	18.4	804.	ND	NC	155.	NC	NC
35.4[illegible]	709.	ND	8.3	2040.	1.25	14.6	651.	ND	NC	163.	NC	NC
35.55	650.	ND	7.7	1897.	1.25	14.7	609.	ND	NC	149.	NC	NC
35.7[illegible]	640.	ND	6.4	1582.	1.42	24.6	849.	ND	NC	147.	NC	NC
35.85	705.	ND	6.1	1509.	1.47	27.5	903.	ND	NC	162.	NC	NC
36.0[illegible]	691.	ND	8.3	2048.	1.38	22.4	1003.	ND	NC	159.	NC	NC
36.15	678.	ND	8.4	2062.	1.27	16.1	727.	ND	NC	156.	NC	NC
36.3[illegible]	695.	ND	7.9	1944.	1.21	12.3	524.	ND	NC	160.	NC	NC
36.45	673.	ND	7.1	1756.	1.43	25.0	959.	ND	NC	155.	NC	NC
36.6[illegible]	667.	ND	7.7	1893.	1.44	25.8	1068.	ND	NC	153.	NC	NC
36.75	696.	ND	8.3	2044.	1.35	20.8	931.	ND	NC	160.	NC	NC
36.9[illegible]	730.	ND	8.7	2150.	1.25	14.8	695.	ND	NC	168.	NC	NC
37.05	678.	ND	8.3	2034.	1.30	17.5	778.	ND	NC	156.	NC	NC
37.2[illegible]	686.	ND	8.0	1970.	1.38	22.2	955.	ND	NC	158.	NC	NC
37.35	716.	ND	9.0	2214.	1.43	25.2	1218.	ND	NC	165.	NC	NC
37.50	703.	ND	9.4	2310.	1.21	12.3	623.	ND	NC	162.	NC	NC
37.65	701.	ND	9.4	2309.	1.14	8.5	428.	ND	NC	161.	NC	NC
37.8[illegible]	676.	ND	7.5	1847.	1.09	5.2	269.	ND	NC	156.	NC	NC
37.95	641.	ND	6.3	1548.	1.08	4.9	165.	ND	NC	147.	NC	NC
38.1[illegible]	665.	ND	6.1	1508.	1.08	4.5	150.	ND	NC	153.	NC	NC
38.25	719.	ND	8.3	2037.	1.05	3.1	136.	ND	NC	165.	NC	NC
38.4[illegible]	706.	ND	10.3	2545.	1.05	2.8	154.	ND	NC	162.	NC	NC
38.55	673.	ND	10.6	2596.	1.05	2.8	160.	ND	NC	155.	NC	NC
38.7[illegible]	691.	ND	7.0	1722.	1.04	2.1	80.	ND	NC	159.	NC	NC
38.85	689.	ND	6.6	1628.	1.02	1.1	40.	ND	NC	159.	NC	NC
39.00	676.	ND	8.8	2154.	1.01	0.6	29.	ND	NC	155.	NC	NC
39.15	691.	ND	10.6	2608.	1.01	0.5	28.	ND	NC	159.	NC	NC
39.30	706.	ND	10.5	2590.	1.02	1.1	62.	ND	NC	161.	NC	NC
39.45	667.	ND	8.9	2184.	1.01	0.7	33.	ND	NC	153.	NC	NC
39.6[illegible]	666.	ND	6.8	1669.	1.01	0.7	26.	ND	NC	153.	NC	NC
39.75	723.	ND	10.3	2543.	1.01	0.6	33.	ND	NC	166.	NC	NC
39.9[illegible]	689.	ND	11.3	2772.	1.01	0.5	29.	ND	NC	158.	NC	NC

RUN NUMBER- 23
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	653.	ND	11.4	2804.	1.01	0.5	28.	ND	NC	150.	NC	NC
40.20	629.	ND	8.2	2014.	1.01	0.4	16.	ND	NC	145.	NC	NC
40.35	631.	ND	6.5	1591.	1.01	0.3	11.	ND	NC	145.	NC	NC
40.50	644.	ND	10.2	2516.	1.00	0.	0.	ND	NC	148.	NC	NC
40.65	650.	ND	10.9	2678.	1.00	0.	0.	ND	NC	149.	NC	NC
40.80	646.	ND	11.5	2826.	1.01	0.7	45.	ND	NC	149.	NC	NC
40.95	627.	ND	11.8	2899.	1.02	0.9	57.	ND	NC	144.	NC	NC
41.10	663.	ND	9.0	2224.	1.01	0.6	31.	ND	NC	152.	NC	NC
41.25	643.	ND	11.0	2719.	1.01	0.6	36.	ND	NC	148.	NC	NC
41.40	629.	ND	11.5	2817.	1.01	0.9	54.	ND	NC	145.	NC	NC
41.55	657.	ND	9.1	2238.	1.01	0.5	26.	ND	NC	151.	NC	NC
41.70	652.	ND	10.3	2534.	1.01	0.5	29.	ND	NC	150.	NC	NC
41.85	621.	ND	10.9	2682.	1.01	0.3	18.	ND	NC	143.	NC	NC
42.00	641.	ND	11.0	2704.	1.00	0.	0.	ND	NC	147.	NC	NC
42.15	646.	ND	11.4	2796.	1.00	0.	0.	ND	NC	149.	NC	NC
42.30	618.	ND	12.1	2985.	1.00	0.	0.	ND	NC	142.	NC	NC
42.45	629.	ND	10.6	2602.	1.00	0.	0.	ND	NC	145.	NC	NC
42.60	661.	ND	11.0	2696.	1.00	0.	0.	ND	NC	152.	NC	NC
42.75	644.	ND	12.0	2939.	1.00	0.	0.	ND	NC	148.	NC	NC
42.90	630.	ND	11.8	2908.	1.00	0.	0.	ND	NC	145.	NC	NC
43.05	649.	ND	11.3	2780.	1.00	0.	0.	ND	NC	149.	NC	NC
43.20	645.	ND	11.8	2892.	1.00	0.	0.	ND	NC	148.	NC	NC
43.35	638.	ND	11.4	2808.	1.00	0.	0.	ND	NC	147.	NC	NC
43.50	645.	ND	10.1	2483.	1.00	0.	0.	ND	NC	148.	NC	NC
43.65	551.	ND	8.8	2176.	1.00	0.	0.	ND	NC	127.	NC	NC
43.80	587.	ND	9.7	2147.	1.00	0.	0.	ND	NC	135.	NC	NC
43.95	611.	ND	11.2	2745.	1.00	0.	0.	ND	NC	140.	NC	NC
44.10	595.	ND	11.6	2854.	1.00	0.	0.	ND	NC	137.	NC	NC
44.25	568.	ND	13.1	3226.	1.01	0.4	27.	ND	NC	131.	NC	NC
44.40	593.	ND	9.3	2275.	1.00	0.	0.	ND	NC	136.	NC	NC
44.55	584.	ND	10.4	2550.	1.00	0.	0.	ND	NC	134.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 14 78
RUN NUMBER- 26
SEGMENT NUMBER- 1
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.60
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	4.	ND	0.5	130.	1.01	0.8	2.	ND	NC	1.	NC	NC
0.15	11.	ND	0.5	135.	1.01	0.7	2.	ND	NC	3.	NC	NC
0.30	28.	ND	0.5	128.	1.01	0.6	2.	ND	NC	6.	NC	NC
0.45	31.	ND	0.5	118.	1.01	0.7	2.	ND	NC	7.	NC	NC
0.60	-0.	ND	0.5	134.	1.01	0.8	2.	ND	NC	-0.	NC	NC
0.75	-0.	ND	0.5	125.	1.01	0.8	2.	ND	NC	-0.	NC	NC
0.90	2.	ND	0.6	155.	1.01	0.7	2.	ND	NC	0.	NC	NC
1.05	44.	ND	0.5	134.	1.01	0.4	1.	ND	NC	10.	NC	NC
1.20	69.	ND	0.6	156.	1.01	0.5	2.	ND	NC	16.	NC	NC
1.35	28.	ND	0.6	135.	1.01	0.4	1.	ND	NC	6.	NC	NC
1.50	-1.	ND	0.5	121.	1.01	0.5	1.	ND	NC	-0.	NC	NC
1.65	1.	ND	0.5	133.	1.01	0.4	1.	ND	NC	0.	NC	NC
1.80	3.	ND	1.2	304.	1.00	0.	0.	ND	NC	1.	NC	NC
1.95	34.	ND	3.6	887.	1.00	0.	0.	ND	NC	8.	NC	NC
2.10	127.	ND	3.8	929.	1.00	0.	0.	ND	NC	29.	NC	NC
2.25	131.	ND	3.1	772.	1.00	0.	0.	ND	NC	33.	NC	NC
2.40	32.	ND	3.3	822.	1.00	0.	0.	ND	NC	7.	NC	NC
2.55	-2.	ND	4.4	1085.	1.00	0.	0.	ND	NC	-0.	NC	NC
2.70	182.	ND	4.6	1143.	1.00	0.	0.	ND	NC	42.	NC	NC
2.85	258.	ND	5.7	1395.	1.00	0.	0.	ND	NC	59.	NC	NC
3.00	267.	ND	6.7	1651.	1.00	0.	0.	ND	NC	62.	NC	NC
3.15	257.	ND	7.3	1786.	1.01	0.7	29.	ND	NC	59.	NC	NC
3.30	247.	ND	6.5	1591.	1.02	1.3	44.	ND	NC	57.	NC	NC
3.45	248.	ND	6.5	1590.	1.02	1.4	50.	ND	NC	57.	NC	NC
3.60	240.	ND	6.6	1624.	1.03	1.5	53.	ND	NC	55.	NC	NC
3.75	240.	ND	6.6	1634.	1.02	1.4	52.	ND	NC	55.	NC	NC
3.90	310.	ND	6.8	1660.	1.03	1.6	57.	ND	NC	71.	NC	NC
4.05	356.	ND	7.7	1894.	1.03	1.8	74.	ND	NC	82.	NC	NC
4.20	388.	ND	8.2	2026.	1.03	1.5	68.	ND	NC	89.	NC	NC
4.35	397.	ND	8.8	2154.	1.03	1.5	72.	ND	NC	91.	NC	NC
4.50	399.	ND	9.2	2265.	1.03	2.0	97.	ND	NC	92.	NC	NC
4.65	399.	ND	9.3	2288.	1.03	1.5	74.	ND	NC	92.	NC	NC
4.80	439.	ND	9.4	2300.	1.03	1.5	77.	ND	NC	101.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	524.	ND	9.5	2342.	1.03	1.6	79.	ND	NC	121.	NC	NC
5.10	515.	ND	10.5	2592.	1.03	1.6	92.	ND	NC	118.	NC	NC
5.25	521.	ND	10.7	2636.	1.03	1.8	101.	ND	NC	120.	NC	NC
5.40	513.	ND	10.8	2648.	1.03	1.7	97.	ND	NC	118.	NC	NC
5.55	508.	ND	10.8	2657.	1.03	1.7	100.	ND	NC	117.	NC	NC
5.70	524.	ND	10.7	2629.	1.03	1.9	107.	ND	NC	120.	NC	NC
5.85	550.	ND	10.5	2580.	1.03	1.6	90.	ND	NC	127.	NC	NC
6.00	557.	ND	10.4	2548.	1.02	1.4	78.	ND	NC	128.	NC	NC
6.15	560.	ND	10.1	2486.	1.02	1.4	74.	ND	NC	129.	NC	NC
6.30	567.	ND	10.0	2451.	1.02	1.1	56.	ND	NC	130.	NC	NC
6.45	578.	ND	9.8	2420.	1.01	0.9	45.	ND	NC	133.	NC	NC
6.60	560.	ND	9.6	2371.	1.02	0.9	49.	ND	NC	133.	NC	NC
6.75	608.	ND	9.7	2382.	1.02	1.0	53.	ND	NC	140.	NC	NC
6.90	609.	ND	9.8	2418.	1.02	1.1	57.	ND	NC	140.	NC	NC
7.05	595.	ND	9.9	2444.	1.02	1.1	60.	ND	NC	137.	NC	NC
7.20	577.	ND	10.0	2458.	1.02	1.2	66.	ND	NC	133.	NC	NC
7.35	557.	ND	10.0	2459.	1.02	1.4	74.	ND	NC	128.	NC	NC
7.50	558.	ND	9.7	2396.	1.02	1.4	75.	ND	NC	128.	NC	NC
7.65	581.	ND	9.4	2304.	1.02	1.4	70.	ND	NC	134.	NC	NC
7.80	584.	ND	8.5	2079.	1.02	1.4	62.	ND	NC	134.	NC	NC
7.95	561.	ND	8.4	2070.	1.02	1.4	61.	ND	NC	129.	NC	NC
8.10	557.	ND	8.3	2029.	1.02	1.1	48.	ND	NC	128.	NC	NC
8.25	566.	ND	8.4	2065.	1.01	0.9	39.	ND	NC	130.	NC	NC
8.40	574.	ND	8.4	2062.	1.02	1.0	45.	ND	NC	132.	NC	NC
8.55	595.	ND	8.0	1975.	1.04	2.1	90.	ND	NC	137.	NC	NC
8.70	638.	ND	7.2	1779.	1.09	5.5	214.	ND	NC	147.	NC	NC
8.85	624.	ND	6.9	1709.	1.06	3.3	125.	ND	NC	143.	NC	NC
9.00	583.	ND	6.8	1681.	1.04	2.5	92.	ND	NC	134.	NC	NC
9.15	596.	ND	6.7	1636.	1.09	5.1	184.	ND	NC	137.	NC	NC
9.30	584.	ND	5.7	1408.	1.14	8.1	251.	ND	NC	134.	NC	NC
9.45	596.	ND	5.7	1390.	1.08	4.6	139.	ND	NC	137.	NC	NC
9.60	631.	ND	5.4	1321.	1.06	3.8	109.	ND	NC	145.	NC	NC
9.75	657.	ND	5.0	1236.	1.06	3.3	89.	ND	NC	151.	NC	NC
9.90	606.	ND	4.7	1159.	1.20	11.8	298.	ND	NC	139.	NC	NC
10.05	611.	ND	4.5	1115.	1.07	4.3	104.	ND	NC	141.	NC	NC
10.20	596.	ND	4.6	1133.	1.06	3.5	86.	ND	NC	137.	NC	NC
10.35	624.	ND	4.5	1113.	1.08	5.0	121.	ND	NC	144.	NC	NC
10.50	683.	ND	4.1	1014.	1.14	8.3	184.	ND	NC	157.	NC	NC
10.65	717.	ND	4.2	1023.	1.12	7.1	159.	ND	NC	165.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	684.	ND	4.2	1644.	1.05	3.2	73.	ND	NC	157.	NC	NC
10.95	766.	ND	4.2	1640.	1.07	3.9	88.	ND	NC	176.	NC	NC
11.10	801.	ND	4.2	1644.	1.15	8.9	203.	ND	NC	184.	NC	NC
11.25	747.	ND	4.4	1671.	1.06	3.8	89.	ND	NC	172.	NC	NC
11.40	567.	ND	4.3	1664.	1.05	3.0	70.	ND	NC	130.	NC	NC
11.55	635.	ND	4.8	1174.	1.12	7.1	182.	ND	NC	146.	NC	NC
11.70	689.	ND	5.5	1349.	1.12	6.9	202.	ND	NC	158.	NC	NC
11.85	605.	ND	5.3	1303.	1.08	4.7	133.	ND	NC	139.	NC	NC
12.00	1292.	ND	5.7	1400.	1.09	5.3	162.	ND	NC	297.	NC	NC
12.15	1046.	ND	7.4	1822.	1.06	3.6	145.	ND	NC	241.	NC	NC
12.30	1004.	ND	7.4	1827.	1.05	3.0	121.	ND	NC	231.	NC	NC
12.45	1000.	ND	7.3	1790.	1.12	7.0	274.	ND	NC	230.	NC	NC
12.60	973.	ND	7.2	1775.	1.06	3.7	143.	ND	NC	224.	NC	NC
12.75	848.	ND	7.2	1779.	1.04	2.3	88.	ND	NC	195.	NC	NC
12.90	878.	ND	6.9	1687.	1.06	3.8	141.	ND	NC	202.	NC	NC
13.05	895.	ND	6.4	1565.	1.08	4.4	151.	ND	NC	206.	NC	NC
13.20	1110.	ND	6.7	1637.	1.05	3.0	106.	ND	NC	255.	NC	NC
13.35	1394.	ND	7.3	1606.	1.04	2.2	85.	ND	NC	321.	NC	NC
13.50	1505.	ND	7.6	1857.	1.04	2.3	94.	ND	NC	346.	NC	NC
13.65	1459.	ND	7.7	1891.	1.04	2.3	96.	ND	NC	336.	NC	NC
13.80	1370.	ND	10.2	2509.	1.03	1.8	101.	ND	NC	315.	NC	NC
13.95	1280.	ND	11.7	2882.	1.08	4.5	286.	ND	NC	294.	NC	NC
14.10	1257.	ND	12.0	2960.	1.05	2.9	189.	ND	NC	289.	NC	NC
14.25	1300.	ND	11.9	2924.	1.03	1.9	120.	ND	NC	299.	NC	NC
14.40	1335.	ND	11.3	2773.	1.05	2.7	161.	ND	NC	307.	NC	NC
14.55	1308.	ND	9.7	2393.	1.07	3.9	206.	ND	NC	301.	NC	NC
14.70	1265.	ND	9.1	2229.	1.04	2.3	112.	ND	NC	291.	NC	NC
14.85	1248.	ND	8.8	2173.	1.01	0.5	25.	ND	NC	287.	NC	NC
15.00	1223.	ND	8.4	2066.	1.03	1.9	87.	ND	NC	281.	NC	NC
15.15	1247.	ND	8.5	2094.	1.11	6.6	303.	ND	NC	287.	NC	NC
15.30	1319.	ND	9.4	2307.	1.03	1.7	84.	ND	NC	303.	NC	NC
15.45	1322.	ND	10.0	2448.	1.04	2.6	139.	ND	NC	304.	NC	NC
15.60	1295.	ND	10.4	2554.	1.11	6.4	356.	ND	NC	298.	NC	NC
15.75	1304.	ND	10.8	2645.	1.07	4.1	235.	ND	NC	300.	NC	NC
15.90	1343.	ND	10.5	2584.	1.04	2.5	144.	ND	NC	309.	NC	NC
16.05	1416.	ND	10.4	2552.	1.04	2.3	129.	ND	NC	326.	NC	NC
16.20	1415.	ND	10.3	2526.	1.01	0.7	39.	ND	NC	325.	NC	NC
16.35	1385.	ND	10.6	2595.	1.03	1.6	91.	ND	NC	319.	NC	NC
16.50	1326.	ND	10.7	2638.	1.01	0.5	28.	ND	NC	305.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1283.	ND	11.1	2741.	1.05	2.8	157.	ND	NC	295.	NC	NC
16.80	1273.	ND	11.3	2785.	1.03	1.6	100.	ND	NC	293.	NC	NC
16.95	1264.	ND	11.5	2837.	1.01	0.6	35.	ND	NC	291.	NC	NC
17.10	1275.	ND	11.5	2820.	1.02	1.1	67.	ND	NC	293.	NC	NC
17.25	1310.	ND	11.2	2767.	1.03	2.0	120.	ND	NC	291.	NC	NC
17.40	1300.	ND	11.3	2772.	1.03	1.8	111.	ND	NC	299.	NC	NC
17.55	1222.	ND	11.4	2812.	1.01	0.3	21.	ND	NC	281.	NC	NC
17.70	1243.	ND	10.7	2623.	1.01	0.4	23.	ND	NC	286.	NC	NC
17.85	1251.	ND	11.5	2838.	1.00	0.	0.	ND	NC	288.	NC	NC
18.00	1265.	ND	12.1	2971.	1.01	0.4	26.	ND	NC	291.	NC	NC
18.15	1334.	ND	11.8	2911.	1.02	1.1	70.	ND	NC	307.	NC	NC
18.30	1356.	ND	11.8	2910.	1.01	0.4	26.	ND	NC	312.	NC	NC
18.45	1350.	ND	12.2	3008.	1.01	0.7	49.	ND	NC	311.	NC	NC
18.60	1349.	ND	12.4	3038.	1.04	2.3	154.	ND	NC	310.	NC	NC
18.75	1325.	ND	12.2	3008.	1.06	3.6	239.	ND	NC	305.	NC	NC
18.90	1288.	ND	11.5	2834.	1.03	2.0	122.	ND	NC	296.	NC	NC
19.05	1331.	ND	12.0	2961.	1.01	0.6	39.	ND	NC	306.	NC	NC
19.20	1345.	ND	12.7	3131.	1.00	0.	0.	ND	NC	309.	NC	NC
19.35	1315.	ND	12.0	2957.	1.15	8.7	569.	ND	NC	302.	NC	NC
19.50	1267.	ND	12.4	3048.	1.03	2.0	135.	ND	NC	291.	NC	NC
19.65	1257.	ND	12.6	3089.	1.03	1.6	110.	ND	NC	289.	NC	NC
19.80	1240.	ND	11.8	2913.	1.08	5.0	315.	ND	NC	287.	NC	NC
19.95	1248.	ND	10.8	2656.	1.10	5.7	331.	ND	NC	287.	NC	NC
20.10	1313.	ND	12.4	3060.	1.03	1.5	103.	ND	NC	302.	NC	NC
20.25	1303.	ND	12.7	3131.	1.01	0.5	34.	ND	NC	300.	NC	NC
20.40	1282.	ND	9.0	2211.	1.01	0.4	21.	ND	NC	295.	NC	NC
20.55	1297.	ND	11.9	2924.	1.00	0.	0.	ND	NC	298.	NC	NC
20.70	1316.	ND	12.5	3072.	1.01	0.7	45.	ND	NC	303.	NC	NC
20.85	1368.	ND	9.9	2445.	1.03	1.6	85.	ND	NC	315.	NC	NC
21.00	1444.	ND	10.4	2555.	1.00	0.	0.	ND	NC	332.	NC	NC
21.15	1462.	ND	11.7	2888.	1.01	0.5	31.	ND	NC	336.	NC	NC
21.30	1363.	ND	13.1	3233.	1.06	3.6	253.	ND	NC	313.	NC	NC
21.45	1280.	ND	12.7	3112.	1.03	2.0	135.	ND	NC	294.	NC	NC
21.60	1306.	ND	11.3	2769.	1.01	0.5	33.	ND	NC	300.	NC	NC
21.75	1304.	ND	13.0	3193.	1.01	0.6	40.	ND	NC	300.	NC	NC
21.90	1290.	ND	13.1	3215.	1.06	3.3	232.	ND	NC	297.	NC	NC
22.05	1340.	ND	11.4	2803.	1.16	9.4	579.	ND	NC	308.	NC	NC
22.20	1296.	ND	12.1	2971.	1.03	1.7	111.	ND	NC	298.	NC	NC
22.35	1241.	ND	13.0	3187.	1.02	1.2	83.	ND	NC	285.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1223.	ND	12.7	3123.	1.02	0.9	63.	ND	NC	281.	NC	NC
22.65	1240.	ND	9.6	2352.	1.01	0.5	26.	ND	NC	285.	NC	NC
22.80	1258.	ND	12.3	3020.	1.02	1.2	76.	ND	NC	289.	NC	NC
22.95	1258.	ND	12.5	3065.	1.07	4.0	267.	ND	NC	289.	NC	NC
23.10	1313.	ND	12.5	3077.	1.12	7.3	490.	ND	NC	302.	NC	NC
23.25	1329.	ND	13.0	3192.	1.18	10.5	732.	ND	NC	306.	NC	NC
23.40	1335.	ND	13.2	3237.	1.11	6.6	466.	ND	NC	307.	NC	NC
23.55	1355.	ND	13.0	3191.	1.06	3.8	265.	ND	NC	312.	NC	NC
23.70	1345.	ND	12.8	3143.	1.02	1.3	87.	ND	NC	309.	NC	NC
23.85	1351.	ND	13.1	3219.	1.03	2.0	139.	ND	NC	311.	NC	NC
24.00	1361.	ND	13.5	3326.	1.04	2.6	190.	ND	NC	313.	NC	NC
24.15	1314.	ND	13.2	3240.	1.03	1.8	126.	ND	NC	302.	NC	NC
24.30	1285.	ND	12.7	3132.	1.05	2.9	196.	ND	NC	296.	NC	NC
24.45	1280.	ND	13.4	3284.	1.04	2.4	173.	ND	NC	294.	NC	NC
24.60	1273.	ND	13.2	3241.	1.04	2.4	172.	ND	NC	293.	NC	NC
24.75	1259.	ND	12.7	3116.	1.07	4.3	289.	ND	NC	290.	NC	NC
24.90	1286.	ND	13.0	3186.	1.04	2.3	159.	ND	NC	296.	NC	NC
25.05	1290.	ND	12.9	3182.	1.01	0.8	57.	ND	NC	297.	NC	NC
25.20	1259.	ND	12.8	3144.	1.04	2.2	154.	ND	NC	289.	NC	NC
25.35	1232.	ND	12.6	3104.	1.04	2.3	157.	ND	NC	283.	NC	NC
25.50	1268.	ND	13.0	3190.	1.03	1.7	122.	ND	NC	292.	NC	NC
25.65	1284.	ND	13.0	3188.	1.04	2.5	172.	ND	NC	295.	NC	NC
25.80	1306.	ND	12.7	3135.	1.04	2.4	163.	ND	NC	300.	NC	NC
25.95	1353.	ND	12.6	3095.	1.01	0.4	24.	ND	NC	311.	NC	NC
26.10	1356.	ND	13.1	3232.	1.04	2.5	174.	ND	NC	312.	NC	NC
26.25	1295.	ND	13.2	3242.	1.05	2.8	197.	ND	NC	298.	NC	NC
26.40	1304.	ND	12.9	3162.	1.01	0.4	30.	ND	NC	300.	NC	NC
26.55	1303.	ND	13.1	3227.	1.04	2.1	148.	ND	NC	300.	NC	NC
26.70	1280.	ND	13.6	3349.	1.03	1.9	138.	ND	NC	294.	NC	NC
26.85	1293.	ND	13.4	3297.	1.03	1.8	129.	ND	NC	297.	NC	NC
27.00	1321.	ND	13.2	3256.	1.03	2.0	142.	ND	NC	304.	NC	NC
27.15	1332.	ND	13.3	3271.	1.02	1.4	97.	ND	NC	306.	NC	NC
27.30	1245.	ND	13.3	3271.	1.02	0.9	64.	ND	NC	286.	NC	NC
27.45	1246.	ND	13.0	3188.	1.04	2.3	160.	ND	NC	287.	NC	NC
27.60	1230.	ND	13.0	3205.	1.00	0.	0.	ND	NC	283.	NC	NC
27.75	1225.	ND	13.0	3187.	1.01	0.7	49.	ND	NC	282.	NC	NC
27.90	1270.	ND	13.0	3187.	1.04	2.5	173.	ND	NC	292.	NC	NC
28.05	1291.	ND	13.0	3198.	1.04	2.2	157.	ND	NC	297.	NC	NC
28.20	1294.	ND	13.2	3242.	1.04	2.1	148.	ND	NC	298.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1324.	ND	13.2	3234.	1.06	3.5	249.	ND	NC	304.	NC	NC
28.50	1346.	ND	13.1	3217.	1.04	2.3	159.	ND	NC	310.	NC	NC
28.65	1336.	ND	13.2	3251.	1.03	1.7	118.	ND	NC	307.	NC	NC
28.80	1308.	ND	13.2	3250.	1.06	3.4	239.	ND	NC	301.	NC	NC
28.95	1344.	ND	13.1	3232.	1.07	4.1	292.	ND	NC	309.	NC	NC
29.10	1276.	ND	13.4	3290.	1.07	3.9	280.	ND	NC	294.	NC	NC
29.25	1278.	ND	13.6	3348.	1.04	2.2	158.	ND	NC	294.	NC	NC
29.40	1283.	ND	13.8	3394.	1.03	1.9	137.	ND	NC	295.	NC	NC
29.55	1274.	ND	13.5	3318.	1.02	1.4	100.	ND	NC	293.	NC	NC
29.70	1284.	ND	13.4	3293.	1.01	0.6	43.	ND	NC	295.	NC	NC
29.85	1294.	ND	13.6	3353.	1.00	0.	0.	ND	NC	298.	NC	NC
30.00	1276.	ND	13.8	3392.	1.01	0.7	48.	ND	NC	293.	NC	NC
30.15	1242.	ND	13.3	3272.	1.01	0.5	38.	ND	NC	286.	NC	NC
30.30	1222.	ND	13.7	3372.	1.00	0.	0.	ND	NC	281.	NC	NC
30.45	1270.	ND	13.7	3375.	1.00	0.	0.	ND	NC	292.	NC	NC
30.60	1282.	ND	13.6	3348.	1.00	0.	0.	ND	NC	295.	NC	NC
30.75	1304.	ND	13.9	3427.	1.00	0.	0.	ND	NC	300.	NC	NC
30.90	1338.	ND	13.9	3420.	1.00	0.	0.	ND	NC	308.	NC	NC
31.05	1348.	ND	13.6	3351.	1.00	0.	0.	ND	NC	310.	NC	NC
31.20	1340.	ND	13.5	3323.	1.00	0.	0.	ND	NC	308.	NC	NC
31.35	1307.	ND	13.7	3366.	1.00	0.	0.	ND	NC	301.	NC	NC
31.50	1270.	ND	14.1	3479.	1.01	0.4	27.	ND	NC	292.	NC	NC
31.65	1282.	ND	14.3	3526.	1.00	0.	0.	ND	NC	295.	NC	NC
31.80	1337.	ND	13.6	3352.	1.00	0.	0.	ND	NC	307.	NC	NC
31.95	1326.	ND	13.7	3369.	1.01	0.6	43.	ND	NC	305.	NC	NC
32.10	1278.	ND	13.7	3375.	1.01	0.6	46.	ND	NC	294.	NC	NC
32.25	1252.	ND	13.3	3264.	1.04	2.5	181.	ND	NC	288.	NC	NC
32.40	1240.	ND	13.2	3248.	1.04	2.3	162.	ND	NC	285.	NC	NC
32.55	1223.	ND	13.0	3187.	1.03	1.5	105.	ND	NC	281.	NC	NC
32.70	1247.	ND	12.6	3111.	1.13	7.8	527.	ND	NC	287.	NC	NC
32.85	1285.	ND	12.8	3147.	1.19	11.2	767.	ND	NC	295.	NC	NC
33.00	1292.	ND	13.2	3234.	1.14	8.0	564.	ND	NC	297.	NC	NC
33.15	1317.	ND	12.4	3050.	1.07	4.2	277.	ND	NC	303.	NC	NC
33.30	1337.	ND	12.4	3056.	1.25	14.9	996.	ND	NC	308.	NC	NC
33.45	1340.	ND	13.1	3217.	1.22	13.0	915.	ND	NC	308.	NC	NC
33.60	1335.	ND	13.1	3213.	1.12	7.0	493.	ND	NC	307.	NC	NC
33.75	1354.	ND	13.0	3193.	1.20	12.0	840.	ND	NC	311.	NC	NC
33.90	1383.	ND	13.0	3189.	1.10	6.2	429.	ND	NC	318.	NC	NC
34.05	1351.	ND	13.0	3208.	1.08	4.7	333.	ND	NC	311.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1282.	ND	13.4	3289.	1.10	6.0	433.	ND	NC	295.	NC	NC
34.35	1308.	ND	13.3	3274.	1.16	9.1	652.	ND	NC	301.	NC	NC
34.50	1284.	ND	13.4	3298.	1.20	11.9	857.	ND	NC	295.	NC	NC
34.65	1258.	ND	13.4	3299.	1.20	11.7	847.	ND	NC	289.	NC	NC
34.80	1262.	ND	12.8	3137.	1.20	11.7	801.	ND	NC	290.	NC	NC
34.95	1296.	ND	12.8	3148.	1.25	14.6	1007.	ND	NC	298.	NC	NC
35.10	1276.	ND	13.0	3190.	1.21	12.5	872.	ND	NC	293.	NC	NC
35.25	1246.	ND	12.7	3123.	1.18	10.3	705.	ND	NC	287.	NC	NC
35.40	1274.	ND	11.8	2891.	1.25	14.8	938.	ND	NC	293.	NC	NC
35.55	1317.	ND	11.4	2799.	1.30	17.5	1070.	ND	NC	303.	NC	NC
35.70	1317.	ND	12.9	3171.	1.22	12.8	890.	ND	NC	303.	NC	NC
35.85	1340.	ND	12.6	3100.	1.17	10.0	677.	ND	NC	308.	NC	NC
36.00	1416.	ND	10.8	2663.	1.30	17.4	1012.	ND	NC	326.	NC	NC
36.15	1416.	ND	11.9	2927.	1.22	12.7	811.	ND	NC	326.	NC	NC
36.30	1317.	ND	12.8	3139.	1.16	9.4	645.	ND	NC	303.	NC	NC
36.45	1313.	ND	11.1	2740.	1.25	14.6	872.	ND	NC	302.	NC	NC
36.60	1341.	ND	10.9	2670.	1.26	15.3	892.	ND	NC	308.	NC	NC
36.75	1356.	ND	13.0	3195.	1.20	11.6	811.	ND	NC	312.	NC	NC
36.90	1325.	ND	12.4	3047.	1.18	10.8	720.	ND	NC	306.	NC	NC
37.05	1419.	ND	10.6	2604.	1.23	13.4	761.	ND	NC	326.	NC	NC
37.20	1370.	ND	12.1	2969.	1.22	13.0	841.	ND	NC	315.	NC	NC
37.35	1327.	ND	12.8	3145.	1.13	7.6	521.	ND	NC	305.	NC	NC
37.50	1292.	ND	10.5	2582.	1.16	9.2	517.	ND	NC	297.	NC	NC
37.65	1291.	ND	10.4	2559.	1.32	19.1	1068.	ND	NC	297.	NC	NC
37.80	1306.	ND	11.2	2754.	1.24	14.4	865.	ND	NC	300.	NC	NC
37.95	1327.	ND	12.6	3104.	1.18	10.8	732.	ND	NC	305.	NC	NC
38.10	1374.	ND	11.7	2885.	1.25	14.6	922.	ND	NC	316.	NC	NC
38.25	1430.	ND	10.2	2501.	1.28	16.5	903.	ND	NC	329.	NC	NC
38.40	1395.	ND	12.8	3144.	1.21	12.3	848.	ND	NC	321.	NC	NC
38.55	1425.	ND	12.3	3030.	1.22	13.0	858.	ND	NC	328.	NC	NC
38.70	1467.	ND	9.8	2415.	1.29	17.2	908.	ND	NC	337.	NC	NC
38.85	1445.	ND	12.9	3163.	1.21	12.6	872.	ND	NC	332.	NC	NC
39.00	1389.	ND	12.9	3177.	1.19	11.0	764.	ND	NC	319.	NC	NC
39.15	1408.	ND	10.1	2473.	1.25	14.6	789.	ND	NC	324.	NC	NC
39.30	1406.	ND	10.4	2565.	1.25	14.7	822.	ND	NC	323.	NC	NC
39.45	1354.	ND	12.6	3100.	1.21	12.6	853.	ND	NC	311.	NC	NC
39.60	1329.	ND	11.8	2895.	1.22	12.7	805.	ND	NC	306.	NC	NC
39.75	1327.	ND	10.2	2512.	1.26	15.3	840.	ND	NC	305.	NC	NC
39.90	1339.	ND	11.4	2808.	1.28	16.3	1000.	ND	NC	308.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1323.	ND	12.6	3098.	1.21	12.1	820.	ND	NC	304.	NC	NC
40.20	1333.	ND	10.8	2665.	1.23	13.3	772.	ND	NC	306.	NC	NC
40.35	1310.	ND	9.7	2381.	1.34	20.1	1045.	ND	NC	301.	NC	NC
40.50	1317.	ND	11.5	2837.	1.24	14.4	893.	ND	NC	303.	NC	NC
40.65	1339.	ND	12.1	2968.	1.19	11.2	727.	ND	NC	308.	NC	NC
40.80	1390.	ND	10.7	2619.	1.27	15.7	899.	ND	NC	320.	NC	NC
40.95	1449.	ND	9.1	2235.	1.28	16.7	814.	ND	NC	333.	NC	NC
41.10	1473.	ND	12.5	3066.	1.22	12.9	865.	ND	NC	339.	NC	NC
41.25	1420.	ND	12.4	3042.	1.18	10.5	698.	ND	NC	327.	NC	NC
41.40	1423.	ND	9.8	2411.	1.38	17.7	931.	ND	NC	327.	NC	NC
41.55	1387.	ND	13.3	3264.	1.21	12.2	872.	ND	NC	319.	NC	NC
41.70	1356.	ND	13.3	3273.	1.18	10.7	765.	ND	NC	312.	NC	NC
41.85	1348.	ND	11.7	2871.	1.22	12.7	797.	ND	NC	310.	NC	NC
42.00	1348.	ND	11.5	2817.	1.26	15.1	932.	ND	NC	310.	NC	NC
42.15	1384.	ND	12.8	3142.	1.18	10.5	718.	ND	NC	318.	NC	NC
42.30	1319.	ND	11.8	2904.	1.22	12.7	803.	ND	NC	303.	NC	NC
42.45	1299.	ND	10.8	2654.	1.29	16.8	976.	ND	NC	299.	NC	NC
42.60	1311.	ND	11.2	2748.	1.22	13.1	785.	ND	NC	302.	NC	NC
42.75	1295.	ND	12.7	3129.	1.11	6.6	454.	ND	NC	298.	NC	NC
42.90	1326.	ND	11.1	2732.	1.14	8.4	500.	ND	NC	305.	NC	NC
43.05	1380.	ND	10.5	2592.	1.31	18.5	1048.	ND	NC	317.	NC	NC
43.20	1395.	ND	12.1	2987.	1.20	11.7	765.	ND	NC	321.	NC	NC
43.35	1403.	ND	12.4	3056.	1.15	8.9	593.	ND	NC	323.	NC	NC
43.50	1425.	ND	12.2	2992.	1.21	12.2	797.	ND	NC	328.	NC	NC
43.65	1484.	ND	11.9	2933.	1.22	12.9	825.	ND	NC	341.	NC	NC
43.80	1435.	ND	13.0	3186.	1.12	7.1	495.	ND	NC	330.	NC	NC
43.95	1334.	ND	13.0	3186.	1.14	8.2	571.	ND	NC	307.	NC	NC
44.10	1408.	ND	12.9	3176.	1.20	12.0	831.	ND	NC	324.	NC	NC
44.25	1422.	ND	12.5	3066.	1.04	2.2	147.	ND	NC	327.	NC	NC
44.40	1327.	ND	13.1	3230.	1.08	4.8	337.	ND	NC	305.	NC	NC
44.55	1335.	ND	13.9	3413.	1.07	4.4	325.	ND	NC	307.	NC	NC
44.70	1336.	ND	11.9	2915.	1.03	1.8	112.	ND	NC	307.	NC	NC
44.85	1309.	ND	12.4	3052.	1.02	1.3	84.	ND	NC	301.	NC	NC
45.00	1288.	ND	13.5	3313.	1.01	0.7	54.	ND	NC	296.	NC	NC
45.15	1288.	ND	13.0	3190.	1.01	0.5	38.	ND	NC	296.	NC	NC
45.30	1297.	ND	11.3	2787.	1.01	0.6	37.	ND	NC	298.	NC	NC
45.45	1307.	ND	12.7	3129.	1.02	0.9	63.	ND	NC	301.	NC	NC
45.60	1324.	ND	12.6	3102.	1.02	1.1	75.	ND	NC	305.	NC	NC
45.75	1355.	ND	11.5	2836.	1.00	0.	0.	ND	NC	312.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 14 78
RUN NUMBER- 26
SEGMENT NUMBER- 2
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	877.	ND	11.8	2910.	1.01	0.4	23.	ND	NC	202.	NC	NC
0.15	928.	ND	11.9	2921.	1.01	0.7	46.	ND	NC	213.	NC	NC
0.30	989.	ND	12.4	3050.	1.02	1.0	64.	ND	NC	227.	NC	NC
0.45	983.	ND	12.6	3093.	1.01	0.8	51.	ND	NC	226.	NC	NC
0.60	976.	ND	12.5	3085.	1.01	0.5	35.	ND	NC	225.	NC	NC
0.75	969.	ND	12.8	3143.	1.01	0.3	22.	ND	NC	223.	NC	NC
0.90	963.	ND	13.0	3193.	1.00	0.	0.	ND	NC	222.	NC	NC
1.05	959.	ND	12.7	3129.	1.00	0.	0.	ND	NC	221.	NC	NC
1.20	967.	ND	12.6	3088.	1.00	0.	0.	ND	NC	222.	NC	NC
1.35	982.	ND	12.6	3096.	1.00	0.	0.	ND	NC	226.	NC	NC
1.50	978.	ND	12.7	3118.	1.00	0.	0.	ND	NC	225.	NC	NC
1.65	976.	ND	12.8	3143.	1.00	0.	0.	ND	NC	225.	NC	NC
1.80	939.	ND	12.5	3065.	1.00	0.	0.	ND	NC	216.	NC	NC
1.95	963.	ND	12.3	3037.	1.00	0.	0.	ND	NC	222.	NC	NC
2.10	986.	ND	12.5	3068.	1.00	0.	0.	ND	NC	227.	NC	NC
2.25	991.	ND	12.6	3087.	1.00	0.	0.	ND	NC	228.	NC	NC
2.40	998.	ND	12.5	3084.	1.00	0.	0.	ND	NC	230.	NC	NC
2.55	1006.	ND	12.4	3042.	1.00	0.	0.	ND	NC	231.	NC	NC
2.70	1007.	ND	12.4	3042.	1.00	0.	0.	ND	NC	232.	NC	NC
2.85	1016.	ND	12.4	3048.	1.00	0.	0.	ND	NC	234.	NC	NC
3.00	1012.	ND	12.3	3037.	1.00	0.	0.	ND	NC	233.	NC	NC
3.15	984.	ND	12.6	3107.	1.00	0.	0.	ND	NC	226.	NC	NC
3.30	1026.	ND	12.6	3088.	1.02	1.5	98.	ND	NC	236.	NC	NC
3.45	1105.	ND	11.8	2902.	1.04	2.3	149.	ND	NC	254.	NC	NC
3.60	1133.	ND	12.7	3125.	1.03	1.9	128.	ND	NC	261.	NC	NC
3.75	1125.	ND	13.3	3273.	1.01	0.3	22.	ND	NC	259.	NC	NC
3.90	1232.	ND	12.4	3048.	1.04	2.4	157.	ND	NC	283.	NC	NC
4.05	1251.	ND	13.1	3217.	1.04	2.2	152.	ND	NC	288.	NC	NC
4.20	1272.	ND	13.6	3342.	1.01	0.4	28.	ND	NC	293.	NC	NC
4.35	1292.	ND	13.8	3393.	1.00	0.	0.	ND	NC	297.	NC	NC
4.50	1280.	ND	12.1	2985.	1.00	0.	0.	ND	NC	294.	NC	NC
4.65	1268.	ND	13.3	3279.	1.00	0.	0.	ND	NC	292.	NC	NC
4.80	1286.	ND	13.3	3275.	1.00	0.	0.	ND	NC	296.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1302.	ND	11.7	2880.	1.00	0.	0.	ND	NC	300.	NC	NC
5.10	1326.	ND	12.3	3024.	1.00	0.	0.	ND	NC	305.	NC	NC
5.25	1337.	ND	13.5	3315.	1.00	0.	0.	ND	NC	308.	NC	NC
5.40	1383.	ND	12.5	3077.	1.00	0.	0.	ND	NC	318.	NC	NC
5.55	1408.	ND	11.9	2921.	1.00	0.	0.	ND	NC	324.	NC	NC
5.70	1312.	ND	12.8	3136.	1.00	0.	0.	ND	NC	302.	NC	NC
5.85	1287.	ND	13.0	3203.	1.00	0.	0.	ND	NC	296.	NC	NC
6.00	1296.	ND	11.0	2702.	1.00	0.	0.	ND	NC	298.	NC	NC
6.15	1313.	ND	10.8	2651.	1.00	0.	0.	ND	NC	302.	NC	NC
6.30	1316.	ND	13.1	3214.	1.01	0.3	23.	ND	NC	303.	NC	NC
6.45	1319.	ND	12.9	3162.	1.03	2.1	142.	ND	NC	303.	NC	NC
6.60	1310.	ND	12.6	3107.	1.11	6.6	445.	ND	NC	301.	NC	NC
6.75	1273.	ND	13.0	3190.	1.06	3.4	237.	ND	NC	293.	NC	NC
6.90	1246.	ND	13.0	3199.	1.03	1.8	129.	ND	NC	286.	NC	NC
7.05	1261.	ND	12.9	3170.	1.10	5.6	388.	ND	NC	290.	NC	NC
7.20	1270.	ND	13.1	3225.	1.07	4.1	288.	ND	NC	292.	NC	NC
7.35	1264.	ND	13.2	3244.	1.05	3.2	228.	ND	NC	291.	NC	NC
7.50	1291.	ND	13.0	3208.	1.09	5.1	358.	ND	NC	297.	NC	NC
7.65	1313.	ND	13.0	3201.	1.08	4.7	329.	ND	NC	302.	NC	NC
7.80	1336.	ND	13.2	3237.	1.06	3.7	259.	ND	NC	307.	NC	NC
7.95	1346.	ND	13.2	3246.	1.06	3.4	238.	ND	NC	310.	NC	NC
8.10	1351.	ND	12.9	3180.	1.07	4.2	289.	ND	NC	311.	NC	NC
8.25	1336.	ND	13.2	3247.	1.09	5.4	381.	ND	NC	307.	NC	NC
8.40	1309.	ND	13.2	3234.	1.08	4.4	313.	ND	NC	301.	NC	NC
8.55	1311.	ND	12.9	3173.	1.16	9.6	668.	ND	NC	302.	NC	NC
8.70	1309.	ND	12.9	3180.	1.19	11.4	794.	ND	NC	301.	NC	NC
8.85	1307.	ND	13.1	3225.	1.15	8.9	629.	ND	NC	301.	NC	NC
9.00	1292.	ND	13.1	3216.	1.11	6.4	451.	ND	NC	297.	NC	NC
9.15	1280.	ND	13.1	3215.	1.14	8.4	587.	ND	NC	294.	NC	NC
9.30	1254.	ND	13.0	3194.	1.14	8.0	560.	ND	NC	288.	NC	NC
9.45	1262.	ND	13.1	3210.	1.10	5.6	394.	ND	NC	293.	NC	NC
9.60	1262.	ND	13.2	3241.	1.07	4.3	308.	ND	NC	290.	NC	NC
9.75	1273.	ND	13.1	3222.	1.10	6.0	423.	ND	NC	293.	NC	NC
9.90	1292.	ND	13.3	3262.	1.06	3.4	245.	ND	NC	297.	NC	NC
10.05	1298.	ND	13.2	3253.	1.04	2.4	169.	ND	NC	299.	NC	NC
10.20	1314.	ND	13.2	3240.	1.04	2.4	171.	ND	NC	302.	NC	NC
10.35	1333.	ND	13.2	3254.	1.08	4.5	321.	ND	NC	307.	NC	NC
10.50	1355.	ND	13.1	3215.	1.04	2.2	154.	ND	NC	312.	NC	NC
10.65	1347.	ND	13.0	3198.	1.11	6.6	461.	ND	NC	310.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1318.	ND	13.1	3228.	1.12	7.2	509.	ND	NC	303.	NC	NC
10.95	1308.	ND	13.5	3310.	1.18	10.7	772.	ND	NC	331.	NC	NC
11.10	1325.	ND	13.5	3328.	1.18	10.7	780.	ND	NC	335.	NC	NC
11.25	1300.	ND	13.4	3303.	1.20	11.8	854.	ND	NC	299.	NC	NC
11.40	1306.	ND	13.4	3285.	1.20	12.0	864.	ND	NC	300.	NC	NC
11.55	1283.	ND	13.2	3245.	1.19	11.4	805.	ND	NC	295.	NC	NC
11.70	1293.	ND	12.9	3175.	1.17	10.0	693.	ND	NC	297.	NC	NC
11.85	1295.	ND	11.9	2939.	1.21	12.6	810.	ND	NC	298.	NC	NC
12.00	1278.	ND	11.2	2763.	1.26	15.2	918.	ND	NC	294.	NC	NC
12.15	1265.	ND	12.1	2965.	1.25	14.7	952.	ND	NC	291.	NC	NC
12.30	1273.	ND	12.0	2950.	1.18	10.8	694.	ND	NC	293.	NC	NC
12.45	1319.	ND	10.4	2547.	1.30	17.8	988.	ND	NC	303.	NC	NC
12.60	1359.	ND	10.4	2569.	1.32	18.6	1044.	ND	NC	313.	NC	NC
12.75	1352.	ND	11.4	2806.	1.21	12.1	745.	ND	NC	311.	NC	NC
12.90	1387.	ND	11.9	2934.	1.17	9.8	627.	ND	NC	319.	NC	NC
13.05	1451.	ND	9.8	2422.	1.28	16.7	884.	ND	NC	334.	NC	NC
13.20	1479.	ND	9.8	2399.	1.29	17.2	900.	ND	NC	340.	NC	NC
13.35	1378.	ND	11.6	2861.	1.14	8.2	510.	ND	NC	317.	NC	NC
13.50	1333.	ND	10.9	2689.	1.22	13.0	765.	ND	NC	306.	NC	NC
13.65	1319.	ND	9.4	2301.	1.31	18.1	911.	ND	NC	303.	NC	NC
13.80	1353.	ND	9.8	2419.	1.12	6.9	366.	ND	NC	311.	NC	NC
13.95	1343.	ND	11.6	2864.	1.17	10.1	629.	ND	NC	309.	NC	NC
14.10	1294.	ND	9.6	2370.	1.28	16.5	854.	ND	NC	298.	NC	NC
14.25	1304.	ND	8.8	2154.	1.28	16.4	770.	ND	NC	300.	NC	NC
14.40	1271.	ND	12.1	2977.	1.17	10.2	665.	ND	NC	292.	NC	NC
14.55	1244.	ND	11.1	2733.	1.23	13.7	816.	ND	NC	286.	NC	NC
14.70	1260.	ND	9.8	2421.	1.31	18.4	973.	ND	NC	290.	NC	NC
14.85	1288.	ND	10.6	2617.	1.25	14.9	854.	ND	NC	296.	NC	NC
15.00	1302.	ND	12.2	2998.	1.15	9.0	590.	ND	NC	300.	NC	NC
15.15	1318.	ND	12.2	2988.	1.26	15.1	989.	ND	NC	303.	NC	NC
15.30	1382.	ND	11.0	2713.	1.28	16.3	967.	ND	NC	318.	NC	NC
15.45	1380.	ND	12.5	3081.	1.20	11.7	789.	ND	NC	317.	NC	NC
15.60	1371.	ND	12.9	3175.	1.19	11.0	760.	ND	NC	315.	NC	NC
15.75	1363.	ND	12.7	3128.	1.20	12.0	821.	ND	NC	314.	NC	NC
15.90	1366.	ND	12.3	3033.	1.13	7.5	496.	ND	NC	314.	NC	NC
16.05	1315.	ND	12.6	3107.	1.12	7.1	480.	ND	NC	312.	NC	NC
16.20	1304.	ND	12.7	3123.	1.14	8.5	578.	ND	NC	300.	NC	NC
16.35	1313.	ND	10.4	2569.	1.06	3.5	197.	ND	NC	302.	NC	NC
16.50	1316.	ND	10.4	2562.	1.01	0.7	41.	ND	NC	303.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1302.	ND	12.1	2979.	1.03	2.1	134.	ND	NC	299.	NC	NC
16.80	1266.	ND	10.8	2653.	1.18	10.7	621.	ND	NC	291.	NC	NC
16.95	1284.	ND	9.4	2305.	1.26	15.3	773.	ND	NC	295.	NC	NC
17.10	1293.	ND	11.4	2796.	1.19	11.3	688.	ND	NC	297.	NC	NC
17.25	1267.	ND	11.5	2628.	1.19	11.1	685.	ND	NC	291.	NC	NC
17.40	1281.	ND	10.0	2468.	1.28	16.6	895.	ND	NC	295.	NC	NC
17.55	1307.	ND	10.5	2583.	1.31	18.2	1026.	ND	NC	301.	NC	NC
17.70	1319.	ND	11.3	2774.	1.10	5.8	350.	ND	NC	303.	NC	NC
17.85	1317.	ND	12.2	3000.	1.23	13.3	869.	ND	NC	303.	NC	NC
18.00	1459.	ND	9.9	2425.	1.03	2.0	104.	ND	NC	336.	NC	NC
18.15	1477.	ND	9.7	2380.	1.01	0.9	45.	ND	NC	340.	NC	NC
18.30	1388.	ND	12.0	2940.	1.09	5.3	341.	ND	NC	319.	NC	NC
18.45	1333.	ND	10.5	2571.	1.11	6.7	378.	ND	NC	307.	NC	NC
18.60	1336.	ND	7.6	1871.	1.03	1.6	64.	ND	NC	307.	NC	NC
18.75	1320.	ND	10.7	2643.	1.04	2.4	140.	ND	NC	303.	NC	NC
18.90	1295.	ND	13.4	3294.	1.06	3.7	267.	ND	NC	298.	NC	NC
19.05	1296.	ND	11.9	2934.	1.03	1.6	104.	ND	NC	298.	NC	NC
19.20	1331.	ND	9.7	2377.	1.02	1.1	58.	ND	NC	306.	NC	NC
19.35	1339.	ND	12.3	3032.	1.03	1.8	122.	ND	NC	308.	NC	NC
19.50	1244.	ND	11.9	2938.	1.13	7.9	504.	ND	NC	286.	NC	NC
19.65	1270.	ND	10.7	2641.	1.27	16.0	925.	ND	NC	292.	NC	NC
19.80	1269.	ND	11.6	2854.	1.28	16.2	1012.	ND	NC	292.	NC	NC
19.95	1267.	ND	11.7	2889.	1.27	16.1	1016.	ND	NC	292.	NC	NC
20.10	1337.	ND	9.3	2284.	1.31	18.5	924.	ND	NC	307.	NC	NC
20.25	1353.	ND	10.2	2509.	1.31	18.5	1012.	ND	NC	311.	NC	NC
20.40	1359.	ND	11.3	2787.	1.20	11.9	724.	ND	NC	313.	NC	NC
20.55	1369.	ND	10.7	2624.	1.29	17.1	981.	ND	NC	315.	NC	NC
20.70	1470.	ND	10.2	2504.	1.32	18.8	1029.	ND	NC	338.	NC	NC
20.85	1409.	ND	11.6	2841.	1.24	14.2	884.	ND	NC	324.	NC	NC
21.00	1300.	ND	12.3	3028.	1.20	11.8	782.	ND	NC	299.	NC	NC
21.15	1318.	ND	10.5	2572.	1.26	15.5	869.	ND	NC	303.	NC	NC
21.30	1347.	ND	10.7	2621.	1.26	15.5	886.	ND	NC	310.	NC	NC
21.45	1329.	ND	12.5	3083.	1.19	10.9	737.	ND	NC	306.	NC	NC
21.60	1290.	ND	11.5	2828.	1.23	13.7	847.	ND	NC	297.	NC	NC
21.75	1278.	ND	10.1	2472.	1.31	18.5	998.	ND	NC	294.	NC	NC
21.90	1297.	ND	10.7	2624.	1.20	11.9	684.	ND	NC	298.	NC	NC
22.05	1248.	ND	11.9	2917.	1.19	11.1	708.	ND	NC	287.	NC	NC
22.20	1224.	ND	10.7	2623.	1.32	18.7	1073.	ND	NC	281.	NC	NC
22.35	1287.	ND	9.7	2383.	1.30	17.5	911.	ND	NC	296.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1294.	ND	12.0	2946.	1.23	13.6	877.	ND	NC	298.	NC	NC
22.65	1292.	ND	12.5	3078.	1.18	10.5	707.	ND	NC	297.	NC	NC
22.80	1326.	ND	11.9	2931.	1.25	15.0	959.	ND	NC	305.	NC	NC
22.95	1356.	ND	12.3	3015.	1.24	14.3	939.	ND	NC	312.	NC	NC
23.10	1369.	ND	12.6	3100.	1.14	8.5	577.	ND	NC	315.	NC	NC
23.25	1347.	ND	12.7	3131.	1.23	13.6	933.	ND	NC	310.	NC	NC
23.40	1364.	ND	12.5	3072.	1.09	5.2	350.	ND	NC	314.	NC	NC
23.55	1313.	ND	12.5	3067.	1.07	4.0	271.	ND	NC	302.	NC	NC
23.70	1279.	ND	13.1	3213.	1.10	5.6	396.	ND	NC	294.	NC	NC
23.85	1306.	ND	13.8	3398.	1.07	4.0	293.	ND	NC	330.	NC	NC
24.00	1352.	ND	12.0	2960.	1.04	2.5	159.	ND	NC	311.	NC	NC
24.15	1283.	ND	12.5	3073.	1.07	4.2	282.	ND	NC	295.	NC	NC
24.30	1258.	ND	13.3	3266.	1.02	1.2	85.	ND	NC	289.	NC	NC
24.45	1266.	ND	12.4	3039.	1.02	1.2	79.	ND	NC	291.	NC	NC
24.60	1287.	ND	12.1	2979.	1.01	0.7	49.	ND	NC	296.	NC	NC
24.75	1262.	ND	11.8	2901.	1.03	1.5	94.	ND	NC	290.	NC	NC
24.90	1271.	ND	11.5	2834.	1.22	13.2	815.	ND	NC	292.	NC	NC
25.05	1297.	ND	11.7	2885.	1.08	4.7	296.	ND	NC	298.	NC	NC
25.20	1299.	ND	12.8	3139.	1.06	3.5	242.	ND	NC	299.	NC	NC
25.35	1329.	ND	12.5	3078.	1.14	8.5	571.	ND	NC	306.	NC	NC
25.50	1382.	ND	11.5	2835.	1.26	15.2	944.	ND	NC	318.	NC	NC
25.65	1395.	ND	12.4	3059.	1.20	11.6	772.	ND	NC	321.	NC	NC
25.80	1381.	ND	12.6	3101.	1.18	10.4	703.	ND	NC	318.	NC	NC
25.95	1321.	ND	12.5	3083.	1.22	13.1	883.	ND	NC	304.	NC	NC
26.10	1328.	ND	11.8	2899.	1.05	2.7	169.	ND	NC	305.	NC	NC
26.25	1313.	ND	11.6	2862.	1.08	4.5	283.	ND	NC	302.	NC	NC
26.40	1288.	ND	12.1	2979.	1.09	5.5	359.	ND	NC	296.	NC	NC
26.55	1309.	ND	12.0	2941.	1.08	5.0	329.	ND	NC	301.	NC	NC
26.70	1329.	ND	10.5	2583.	1.05	3.2	182.	ND	NC	306.	NC	NC
26.85	1288.	ND	12.0	2945.	1.02	1.0	64.	ND	NC	296.	NC	NC
27.00	1265.	ND	11.1	2742.	1.04	2.1	129.	ND	NC	291.	NC	NC
27.15	1264.	ND	11.1	2734.	1.19	11.1	664.	ND	NC	291.	NC	NC
27.30	1264.	ND	11.7	2889.	1.13	7.7	483.	ND	NC	291.	NC	NC
27.45	1259.	ND	11.7	2888.	1.08	4.8	305.	ND	NC	290.	NC	NC
27.60	1291.	ND	11.4	2793.	1.24	14.3	875.	ND	NC	297.	NC	NC
27.75	1328.	ND	11.6	2847.	1.25	14.9	926.	ND	NC	305.	NC	NC
27.90	1351.	ND	12.3	3023.	1.20	11.6	769.	ND	NC	311.	NC	NC
28.05	1363.	ND	11.9	2923.	1.22	13.1	839.	ND	NC	313.	NC	NC
28.20	1388.	ND	11.1	2728.	1.28	16.6	987.	ND	NC	319.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1385.	ND	12.0	2955.	1.26	15.5	999.	ND	NC	319.	NC	NC
28.50	1341.	ND	12.4	3058.	1.19	11.1	742.	ND	NC	308.	NC	NC
28.65	1295.	ND	12.2	3000.	1.24	14.0	919.	ND	NC	298.	NC	NC
28.80	1333.	ND	11.5	2819.	1.06	3.6	224.	ND	NC	307.	NC	NC
28.95	1320.	ND	11.7	2872.	1.06	3.5	219.	ND	NC	304.	NC	NC
29.10	1297.	ND	12.2	3011.	1.06	3.8	249.	ND	NC	298.	NC	NC
29.25	1287.	ND	12.5	3080.	1.06	3.8	253.	ND	NC	296.	NC	NC
29.40	1282.	ND	10.6	2617.	1.02	1.4	81.	ND	NC	295.	NC	NC
29.55	1267.	ND	12.2	2991.	1.01	0.8	54.	ND	NC	291.	NC	NC
29.70	1249.	ND	11.7	2884.	1.04	2.4	152.	ND	NC	287.	NC	NC
29.85	1268.	ND	10.9	2676.	1.19	10.9	640.	ND	NC	292.	NC	NC
30.00	1290.	ND	12.4	3045.	1.07	4.1	272.	ND	NC	297.	NC	NC
30.15	1284.	ND	12.5	3075.	1.05	3.2	212.	ND	NC	295.	NC	NC
30.30	1306.	ND	11.7	2872.	1.06	3.3	206.	ND	NC	300.	NC	NC
30.45	1379.	ND	10.7	2630.	1.03	2.1	118.	ND	NC	317.	NC	NC
30.60	1399.	ND	12.0	2961.	1.07	4.0	257.	ND	NC	322.	NC	NC
30.75	1373.	ND	12.9	3173.	1.14	8.5	590.	ND	NC	316.	NC	NC
30.90	1333.	ND	12.9	3177.	1.16	9.5	658.	ND	NC	307.	NC	NC
31.05	1311.	ND	12.7	3128.	1.16	9.6	656.	ND	NC	302.	NC	NC
31.20	1294.	ND	12.8	3144.	1.16	9.4	645.	ND	NC	298.	NC	NC
31.35	1298.	ND	11.3	2783.	1.20	11.7	711.	ND	NC	298.	NC	NC
31.50	1310.	ND	12.0	2956.	1.22	13.1	846.	ND	NC	301.	NC	NC
31.65	1292.	ND	12.7	3112.	1.18	10.9	739.	ND	NC	297.	NC	NC
31.80	1278.	ND	12.6	3091.	1.19	10.9	737.	ND	NC	294.	NC	NC
31.95	1296.	ND	11.0	2707.	1.25	14.4	854.	ND	NC	298.	NC	NC
32.10	1314.	ND	11.6	2848.	1.26	15.1	938.	ND	NC	302.	NC	NC
32.25	1246.	ND	12.0	2948.	1.23	13.4	866.	ND	NC	287.	NC	NC
32.40	1267.	ND	10.6	2603.	1.25	14.5	823.	ND	NC	291.	NC	NC
32.55	1292.	ND	9.7	2375.	1.35	20.4	1359.	ND	NC	297.	NC	NC
32.70	1314.	ND	11.4	2812.	1.29	16.8	1031.	ND	NC	302.	NC	NC
32.85	1352.	ND	11.8	2900.	1.22	13.2	838.	ND	NC	311.	NC	NC
33.00	1408.	ND	10.7	2633.	1.30	17.9	1029.	ND	NC	324.	NC	NC
33.15	1466.	ND	10.4	2546.	1.29	17.2	956.	ND	NC	337.	NC	NC
33.30	1413.	ND	12.3	3020.	1.22	13.2	869.	ND	NC	325.	NC	NC
33.45	1312.	ND	12.0	2951.	1.21	12.2	787.	ND	NC	302.	NC	NC
33.60	1312.	ND	9.9	2429.	1.27	15.7	835.	ND	NC	302.	NC	NC
33.75	1312.	ND	12.3	3013.	1.25	14.7	969.	ND	NC	302.	NC	NC
33.90	1304.	ND	13.0	3194.	1.18	10.7	743.	ND	NC	300.	NC	NC
34.05	1311.	ND	11.9	2930.	1.24	14.2	908.	ND	NC	302.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1309.	ND	11.7	2871.	1.27	15.9	999.	ND	NC	301.	NC	NC
34.35	1284.	ND	11.9	2929.	1.23	13.3	849.	ND	NC	295.	NC	NC
34.50	1266.	ND	11.9	2904.	1.21	12.1	765.	ND	NC	291.	NC	NC
34.65	1248.	ND	11.1	2727.	1.20	11.6	693.	ND	NC	297.	NC	NC
34.80	1266.	ND	10.8	2667.	1.16	9.3	543.	ND	NC	293.	NC	NC
34.95	1240.	ND	12.3	3018.	1.03	1.6	105.	ND	NC	285.	NC	NC
35.10	1272.	ND	12.0	2943.	1.04	2.5	162.	ND	NC	293.	NC	NC
35.25	1296.	ND	10.8	2664.	1.03	2.0	117.	ND	NC	298.	NC	NC
35.40	1311.	ND	11.5	2832.	1.01	0.6	40.	ND	NC	301.	NC	NC
35.55	1332.	ND	12.6	3100.	1.05	3.2	214.	ND	NC	306.	NC	NC
35.70	1347.	ND	12.6	3098.	1.08	4.5	304.	ND	NC	313.	NC	NC
35.85	1387.	ND	12.5	3071.	1.04	2.6	174.	ND	NC	319.	NC	NC
36.00	1338.	ND	12.5	3064.	1.03	1.6	105.	ND	NC	308.	NC	NC
36.15	1300.	ND	13.0	3207.	1.06	3.5	246.	ND	NC	299.	NC	NC
36.30	1326.	ND	12.8	3149.	1.04	2.5	174.	ND	NC	305.	NC	NC
36.45	1309.	ND	12.1	2984.	1.02	1.1	75.	ND	NC	301.	NC	NC
36.60	1292.	ND	12.8	3146.	1.06	3.7	253.	ND	NC	297.	NC	NC
36.75	1273.	ND	13.3	3259.	1.03	2.0	142.	ND	NC	293.	NC	NC
36.90	1255.	ND	12.5	3069.	1.02	1.2	78.	ND	NC	289.	NC	NC
37.05	1252.	ND	12.4	3045.	1.03	1.9	130.	ND	NC	288.	NC	NC
37.20	1245.	ND	12.7	3134.	1.02	1.2	81.	ND	NC	286.	NC	NC
37.35	1251.	ND	12.4	3048.	1.07	4.0	269.	ND	NC	288.	NC	NC
37.50	1251.	ND	12.3	3033.	1.09	5.5	366.	ND	NC	288.	NC	NC
37.65	1275.	ND	12.9	3171.	1.03	2.0	140.	ND	NC	293.	NC	NC
37.80	1278.	ND	12.7	3116.	1.05	2.9	198.	ND	NC	294.	NC	NC
37.95	1297.	ND	11.8	2911.	1.03	1.6	103.	ND	NC	298.	NC	NC
38.10	1322.	ND	12.2	2994.	1.01	0.8	53.	ND	NC	304.	NC	NC
38.25	1341.	ND	12.6	3095.	1.04	2.2	147.	ND	NC	308.	NC	NC
38.40	1336.	ND	12.7	3130.	1.06	3.3	227.	ND	NC	307.	NC	NC
38.55	1319.	ND	12.7	3129.	1.02	1.2	84.	ND	NC	303.	NC	NC
38.70	1313.	ND	12.6	3101.	1.02	1.1	74.	ND	NC	302.	NC	NC
38.85	1289.	ND	13.4	3304.	1.00	0.	0.	ND	NC	296.	NC	NC
39.00	1258.	ND	13.7	3365.	1.00	0.	0.	ND	NC	289.	NC	NC
39.15	1276.	ND	12.6	3090.	1.00	0.	0.	ND	NC	294.	NC	NC
39.30	1283.	ND	13.3	3261.	1.01	0.5	35.	ND	NC	295.	NC	NC
39.45	1268.	ND	13.2	3249.	1.00	0.	0.	ND	NC	292.	NC	NC
39.60	1257.	ND	12.4	3052.	1.00	0.	0.	ND	NC	289.	NC	NC
39.75	1240.	ND	13.0	3192.	1.00	0.	0.	ND	NC	285.	NC	NC
39.90	1236.	ND	13.2	3234.	1.00	0.	0.	ND	NC	284.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1259.	ND	12.6	3090.	1.00	0.	0.	ND	NC	293.	NC	NC
40.20	1267.	ND	11.3	2778.	1.00	0.	0.	ND	NC	296.	NC	NC
40.35	1274.	ND	12.3	3031.	1.00	0.	0.	ND	NC	292.	NC	NC
40.50	1298.	ND	12.4	3052.	1.00	0.	0.	ND	NC	298.	NC	NC
40.65	1334.	ND	11.8	2913.	1.00	0.	0.	ND	NC	307.	NC	NC
40.80	1363.	ND	12.1	2975.	1.00	0.	0.	ND	NC	313.	NC	NC
40.95	1332.	ND	12.8	3137.	1.01	0.6	44.	ND	NC	306.	NC	NC
41.10	1306.	ND	12.8	3157.	1.00	0.	0.	ND	NC	300.	NC	NC
41.25	1296.	ND	12.3	3016.	1.00	0.	0.	ND	NC	298.	NC	NC
41.40	1278.	ND	12.2	2997.	1.00	0.	0.	ND	NC	294.	NC	NC
41.55	1275.	ND	14.0	3448.	1.00	0.	0.	ND	NC	293.	NC	NC
41.70	1275.	ND	14.5	3561.	1.00	0.	0.	ND	NC	293.	NC	NC
41.85	1258.	ND	12.1	2982.	1.00	0.	0.	ND	NC	289.	NC	NC
42.00	1258.	ND	13.2	3250.	1.00	0.	0.	ND	NC	289.	NC	NC
42.15	1249.	ND	13.4	3285.	1.01	0.5	33.	ND	NC	287.	NC	NC
42.30	1223.	ND	11.9	2919.	1.01	0.3	22.	ND	NC	281.	NC	NC
42.45	1236.	ND	12.5	3076.	1.00	0.	0.	ND	NC	284.	NC	NC
42.60	1261.	ND	12.7	3119.	1.01	0.6	42.	ND	NC	290.	NC	NC
42.75	1275.	ND	12.0	2953.	1.01	0.3	22.	ND	NC	293.	NC	NC
42.90	1300.	ND	11.4	2804.	1.00	0.	0.	ND	NC	299.	NC	NC
43.05	1325.	ND	12.5	3111.	1.02	0.9	61.	ND	NC	305.	NC	NC
43.20	1351.	ND	13.2	3235.	1.02	1.0	72.	ND	NC	311.	NC	NC
43.35	1342.	ND	13.0	3197.	1.00	0.	0.	ND	NC	309.	NC	NC
43.50	1330.	ND	13.2	3236.	1.01	0.7	53.	ND	NC	306.	NC	NC
43.65	1306.	ND	13.5	3319.	1.08	4.9	354.	ND	NC	300.	NC	NC
43.80	1279.	ND	13.2	3248.	1.13	7.7	548.	ND	NC	294.	NC	NC
43.95	1267.	ND	13.4	3307.	1.11	6.6	479.	ND	NC	291.	NC	NC
44.10	1287.	ND	14.0	3437.	1.11	6.4	481.	ND	NC	296.	NC	NC
44.25	1284.	ND	13.7	3361.	1.15	8.9	653.	ND	NC	295.	NC	NC
44.40	1276.	ND	13.0	3209.	1.18	10.5	736.	ND	NC	293.	NC	NC
44.55	1266.	ND	12.6	3100.	1.17	10.0	676.	ND	NC	291.	NC	NC
44.70	1259.	ND	12.9	3180.	1.15	8.5	594.	ND	NC	290.	NC	NC
44.85	1238.	ND	12.7	3129.	1.13	7.8	531.	ND	NC	285.	NC	NC
45.00	1238.	ND	12.5	3073.	1.11	6.3	426.	ND	NC	285.	NC	NC
45.15	1259.	ND	12.9	3162.	1.03	1.8	125.	ND	NC	289.	NC	NC
45.30	1287.	ND	13.1	3220.	1.01	0.4	27.	ND	NC	296.	NC	NC
45.45	1294.	ND	13.2	3249.	1.06	3.6	252.	ND	NC	298.	NC	NC
45.60	1331.	ND	12.9	3176.	1.02	1.2	84.	ND	NC	306.	NC	NC
45.75	1324.	ND	13.2	3242.	1.03	1.7	118.	ND	NC	304.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1322.	ND	13.3	3282.	1.07	4.3	310.	ND	NC	304.	NC	NC
46.05	1316.	ND	13.5	3323.	1.08	4.8	348.	ND	NC	303.	NC	NC
46.20	1311.	ND	13.4	3303.	1.02	1.3	95.	ND	NC	302.	NC	NC
46.35	1295.	ND	13.5	3324.	1.07	4.0	289.	ND	NC	298.	NC	NC
46.50	1280.	ND	13.5	3313.	1.04	2.1	151.	ND	NC	294.	NC	NC
46.65	1294.	ND	12.8	3149.	1.01	0.6	38.	ND	NC	298.	NC	NC
46.80	1285.	ND	12.5	3068.	1.02	1.0	68.	ND	NC	296.	NC	NC
46.95	1263.	ND	13.8	3403.	1.02	0.9	70.	ND	NC	291.	NC	NC
47.10	1266.	ND	13.4	3288.	1.00	0.	0.	ND	NC	291.	NC	NC
47.25	1239.	ND	12.6	3102.	1.00	0.	0.	ND	NC	285.	NC	NC
47.40	1225.	ND	13.5	3325.	1.00	0.	0.	ND	NC	282.	NC	NC
47.55	1241.	ND	12.9	3172.	1.00	0.	0.	ND	NC	285.	NC	NC
47.70	1275.	ND	12.7	3125.	1.02	1.0	67.	ND	NC	293.	NC	NC
47.85	1288.	ND	12.9	3179.	1.02	1.4	100.	ND	NC	296.	NC	NC
48.00	1292.	ND	13.2	3246.	1.05	2.8	195.	ND	NC	297.	NC	NC
48.15	1314.	ND	12.7	3114.	1.06	3.4	233.	ND	NC	302.	NC	NC
48.30	1353.	ND	11.9	2930.	1.02	1.3	86.	ND	NC	311.	NC	NC
48.45	1350.	ND	12.5	3068.	1.05	2.8	186.	ND	NC	311.	NC	NC
48.60	1310.	ND	12.8	3143.	1.08	5.0	342.	ND	NC	301.	NC	NC
48.75	1275.	ND	13.0	3186.	1.11	6.3	438.	ND	NC	293.	NC	NC
48.90	1287.	ND	12.6	3104.	1.03	1.7	117.	ND	NC	296.	NC	NC
49.05	1304.	ND	13.4	3304.	1.06	3.5	250.	ND	NC	300.	NC	NC
49.20	1285.	ND	13.5	3321.	1.00	0.	0.	ND	NC	296.	NC	NC
49.35	1275.	ND	13.1	3223.	1.00	0.	0.	ND	NC	293.	NC	NC
49.50	1265.	ND	13.2	3246.	1.00	0.	0.	ND	NC	291.	NC	NC
49.65	1246.	ND	13.5	3327.	1.00	0.	0.	ND	NC	287.	NC	NC
49.80	1224.	ND	12.9	3165.	1.00	0.	0.	ND	NC	282.	NC	NC
49.95	1245.	ND	12.5	3086.	1.00	0.	0.	ND	NC	286.	NC	NC
50.10	1251.	ND	13.4	3294.	1.00	0.	0.	ND	NC	288.	NC	NC
50.25	1253.	ND	13.6	3352.	1.00	0.	0.	ND	NC	288.	NC	NC
50.40	1266.	ND	11.3	2778.	1.00	0.	0.	ND	NC	291.	NC	NC
50.55	1288.	ND	12.6	3091.	1.00	0.	0.	ND	NC	296.	NC	NC
50.70	1294.	ND	13.2	3253.	1.01	0.6	45.	ND	NC	299.	NC	NC
50.85	1331.	ND	13.1	3213.	1.00	0.	0.	ND	NC	306.	NC	NC
51.00	1353.	ND	12.8	3136.	1.00	0.	0.	ND	NC	311.	NC	NC
51.15	1326.	ND	13.0	3195.	1.01	0.4	27.	ND	NC	305.	NC	NC
51.30	1288.	ND	13.3	3275.	1.00	0.	0.	ND	NC	296.	NC	NC
51.45	1289.	ND	12.1	2982.	1.00	0.	0.	ND	NC	296.	NC	NC
51.60	1271.	ND	12.2	3005.	1.00	0.	0.	ND	NC	292.	NC	NC

RUN NUMBER- 26
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1265.	ND	13.5	3313.	1.00	0.	0.	ND	NC	291.	NC	NC
51.90	1267.	ND	13.7	3360.	1.00	0.	0.	ND	NC	291.	NC	NC
52.05	1268.	ND	13.3	3276.	1.00	0.	0.	ND	NC	292.	NC	NC
52.20	1262.	ND	13.3	3280.	1.00	0.	0.	ND	NC	292.	NC	NC
52.35	1236.	ND	13.4	3299.	1.00	0.	0.	ND	NC	284.	NC	NC
52.50	1220.	ND	13.0	3205.	1.00	0.	0.	ND	NC	281.	NC	NC
52.65	1237.	ND	12.9	3174.	1.00	0.	0.	ND	NC	284.	NC	NC
52.80	1237.	ND	12.8	3143.	1.00	0.	0.	ND	NC	284.	NC	NC
52.95	1269.	ND	12.7	3112.	1.00	0.	0.	ND	NC	292.	NC	NC
53.10	1254.	ND	12.5	3082.	1.00	0.	0.	ND	NC	288.	NC	NC
53.25	1216.	ND	12.4	3051.	1.00	0.	0.	ND	NC	280.	NC	NC
53.40	1160.	ND	12.3	3020.	1.00	0.	0.	ND	NC	267.	NC	NC
53.55	1069.	ND	12.2	2989.	1.00	0.	0.	ND	NC	246.	NC	NC
53.70	939.	ND	12.6	3106.	1.01	0.7	46.	ND	NC	216.	NC	NC
53.85	877.	ND	12.9	3166.	1.01	0.3	24.	ND	NC	202.	NC	NC
54.00	814.	ND	12.3	3022.	1.01	0.6	38.	ND	NC	187.	NC	NC
54.15	733.	ND	12.1	2975.	1.02	1.0	67.	ND	NC	169.	NC	NC
54.30	733.	ND	12.7	3124.	1.01	0.7	50.	ND	NC	169.	NC	NC
54.45	735.	ND	12.5	3078.	1.02	1.0	67.	ND	NC	169.	NC	NC
54.60	736.	ND	12.2	2991.	1.01	0.4	23.	ND	NC	169.	NC	NC
54.75	734.	ND	12.3	3033.	1.00	0.	0.	ND	NC	169.	NC	NC
54.90	727.	ND	12.4	3048.	1.01	0.5	35.	ND	NC	167.	NC	NC
55.05	715.	ND	12.2	3011.	1.01	0.4	25.	ND	NC	165.	NC	NC
55.20	622.	ND	12.2	3010.	1.01	0.3	21.	ND	NC	143.	NC	NC
55.35	463.	ND	12.2	3001.	1.01	0.6	37.	ND	NC	107.	NC	NC
55.50	251.	ND	11.6	2844.	1.01	0.8	48.	ND	NC	58.	NC	NC
55.65	275.	ND	8.2	2022.	1.01	0.6	25.	ND	NC	63.	NC	NC
55.80	273.	ND	7.8	1928.	1.00	0.	0.	ND	NC	63.	NC	NC
55.95	272.	ND	8.4	2077.	1.01	0.5	21.	ND	NC	63.	NC	NC
56.10	268.	ND	8.5	2086.	1.01	0.5	23.	ND	NC	62.	NC	NC
56.25	260.	ND	8.4	2072.	1.02	0.9	41.	ND	NC	60.	NC	NC
56.40	261.	ND	8.3	2053.	1.02	1.2	53.	ND	NC	60.	NC	NC
56.55	283.	ND	8.3	2037.	1.02	1.1	50.	ND	NC	65.	NC	NC
56.70	292.	ND	8.2	2013.	1.02	1.1	49.	ND	NC	67.	NC	NC
56.85	258.	ND	8.2	2010.	1.02	1.1	50.	ND	NC	59.	NC	NC
57.00	262.	ND	8.1	1985.	1.02	1.2	53.	ND	NC	60.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 15 78
RUN NUMBER- 27
SEGMENT NUMBER- 1
WATER DEPTH- 35 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1352.	36.3	8.5	2094.	1.13	7.6	348.	ND	NC	311.	NC	NC
0.15	1404.	35.9	8.7	2133.	1.06	3.7	173.	ND	NC	323.	NC	NC
0.30	1526.	36.1	9.3	2044.	1.13	7.4	332.	ND	NC	351.	NC	NC
0.45	1453.	32.4	8.2	2022.	1.14	8.4	370.	ND	NC	334.	NC	NC
0.60	1316.	32.8	8.8	2175.	1.06	3.6	172.	ND	NC	303.	NC	NC
0.75	1314.	36.3	9.3	2212.	1.07	4.3	209.	ND	NC	301.	NC	NC
0.90	1329.	39.2	8.5	2078.	1.12	7.3	330.	ND	NC	306.	NC	NC
1.05	1334.	39.6	8.5	2100.	1.06	3.6	167.	ND	NC	307.	NC	NC
1.20	1332.	38.2	9.1	2245.	1.02	1.5	71.	ND	NC	306.	NC	NC
1.35	1358.	39.9	8.7	2149.	1.04	2.4	115.	ND	NC	312.	NC	NC
1.50	1413.	40.8	7.9	1943.	1.10	6.0	256.	ND	NC	324.	NC	NC
1.65	1379.	39.7	9.2	2264.	1.08	4.9	243.	ND	NC	317.	NC	NC
1.80	1337.	40.2	9.6	2368.	1.04	2.2	116.	ND	NC	307.	NC	NC
1.95	1384.	41.0	8.8	2166.	1.09	5.6	264.	ND	NC	318.	NC	NC
2.10	1379.	40.3	8.7	2151.	1.25	14.4	678.	ND	NC	317.	NC	NC
2.25	1426.	37.1	10.0	2450.	1.02	1.3	72.	ND	NC	328.	NC	NC
2.40	1464.	38.3	9.9	2440.	1.03	1.6	88.	ND	NC	337.	NC	NC
2.55	1480.	37.1	9.4	2300.	1.02	1.2	61.	ND	NC	340.	NC	NC
2.70	1479.	32.7	10.0	2463.	1.01	0.5	28.	ND	NC	340.	NC	NC
2.85	1459.	29.0	12.5	3083.	1.00	0.	0.	ND	NC	336.	NC	NC
3.00	1489.	28.6	10.2	2507.	1.00	0.	0.	ND	NC	342.	NC	NC
3.15	1463.	32.0	7.8	1913.	1.00	0.	0.	ND	NC	337.	NC	NC
3.30	1427.	34.0	13.3	3276.	1.01	0.8	59.	ND	NC	328.	NC	NC
3.45	1451.	36.4	13.7	3374.	1.00	0.	0.	ND	NC	334.	NC	NC
3.60	1451.	38.8	10.5	2579.	1.00	0.	0.	ND	NC	334.	NC	NC
3.75	1420.	40.5	12.5	3083.	1.02	1.2	78.	ND	NC	327.	NC	NC
3.90	1389.	34.9	14.1	3459.	1.01	0.5	41.	ND	NC	319.	NC	NC
4.05	1385.	38.3	12.2	2991.	1.00	0.	0.	ND	NC	318.	NC	NC
4.20	1385.	39.6	9.0	2211.	1.01	0.6	29.	ND	NC	318.	NC	NC
4.35	1349.	36.8	12.1	2984.	1.01	0.9	57.	ND	NC	310.	NC	NC
4.50	1359.	35.5	12.9	3163.	1.00	0.	0.	ND	NC	313.	NC	NC
4.65	1403.	38.0	10.3	2534.	1.00	0.	0.	ND	NC	323.	NC	NC
4.80	1400.	39.1	10.8	2653.	1.00	0.	0.	ND	NC	322.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1402.	32.2	13.3	3276.	1.01	0.5	36.	ND	NC	323.	NC	NC
5.10	1477.	30.6	12.7	3121.	1.00	0.	0.	ND	NC	340.	NC	NC
5.25	1510.	36.2	12.4	3053.	1.00	0.	0.	ND	NC	347.	NC	NC
5.40	1480.	28.3	12.9	3164.	1.02	1.0	71.	ND	NC	340.	NC	NC
5.55	1452.	27.3	13.5	3332.	1.03	1.8	132.	ND	NC	334.	NC	NC
5.70	1455.	30.7	13.0	3191.	1.00	0.	0.	ND	NC	335.	NC	NC
5.85	1428.	33.7	12.3	3014.	1.01	0.9	58.	ND	NC	328.	NC	NC
6.00	1400.	33.8	13.3	3281.	1.04	2.3	163.	ND	NC	322.	NC	NC
6.15	1406.	35.2	14.4	3533.	1.01	0.3	25.	ND	NC	323.	NC	NC
6.30	1417.	36.7	12.6	3096.	1.00	0.	0.	ND	NC	326.	NC	NC
6.45	1397.	36.3	13.0	3194.	1.00	0.	0.	ND	NC	321.	NC	NC
6.60	1337.	33.6	13.5	3323.	1.00	0.	0.	ND	NC	308.	NC	NC
6.75	1355.	35.6	13.3	3273.	1.01	0.5	34.	ND	NC	312.	NC	NC
6.90	1368.	35.4	11.9	2932.	1.00	0.	0.	ND	NC	315.	NC	NC
7.05	1368.	34.6	13.4	3297.	1.00	0.	0.	ND	NC	315.	NC	NC
7.20	1381.	34.5	13.2	3240.	1.00	0.	0.	ND	NC	318.	NC	NC
7.35	1406.	33.0	12.5	3084.	1.00	0.	0.	ND	NC	323.	NC	NC
7.50	1420.	30.6	13.1	3216.	1.00	0.	0.	ND	NC	327.	NC	NC
7.65	1486.	29.2	13.7	3369.	1.00	0.	0.	ND	NC	342.	NC	NC
7.80	1557.	29.3	12.9	3165.	1.00	0.	0.	ND	NC	356.	NC	NC
7.95	1522.	29.9	12.5	3071.	1.00	0.	0.	ND	NC	350.	NC	NC
8.10	1469.	29.3	12.6	3102.	1.00	0.	0.	ND	NC	338.	NC	NC
8.25	1436.	30.3	13.9	3417.	1.00	0.	0.	ND	NC	330.	NC	NC
8.40	1425.	34.2	14.4	3539.	1.00	0.	0.	ND	NC	328.	NC	NC
8.55	1419.	35.9	12.5	3079.	1.00	0.	0.	ND	NC	326.	NC	NC
8.70	1421.	34.5	13.2	3235.	1.00	0.	0.	ND	NC	327.	NC	NC
8.85	1404.	34.1	14.3	3509.	1.00	0.	0.	ND	NC	323.	NC	NC
9.00	1397.	36.8	13.3	3266.	1.00	0.	0.	ND	NC	321.	NC	NC
9.15	1369.	34.5	12.5	3075.	1.00	0.	0.	ND	NC	315.	NC	NC
9.30	1370.	34.3	12.6	3104.	1.00	0.	0.	ND	NC	315.	NC	NC
9.45	1376.	36.7	12.0	2943.	1.00	0.	0.	ND	NC	317.	NC	NC
9.60	1382.	35.0	12.2	3000.	1.00	0.	0.	ND	NC	318.	NC	NC
9.75	1381.	33.7	12.4	3053.	1.00	0.	0.	ND	NC	318.	NC	NC
9.90	1438.	33.5	11.5	2827.	1.00	0.	0.	ND	NC	331.	NC	NC
10.05	1472.	32.9	11.9	2915.	1.00	0.	0.	ND	NC	338.	NC	NC
10.20	1456.	30.3	12.9	3178.	1.00	0.	0.	ND	NC	335.	NC	NC
10.35	1474.	27.6	13.1	3215.	1.00	0.	0.	ND	NC	339.	NC	NC
10.50	1505.	28.9	12.5	3075.	1.00	0.	0.	ND	NC	346.	NC	NC
10.65	1469.	29.5	12.5	3084.	1.00	0.	0.	ND	NC	338.	NC	NC

SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1428.	30.3	13.3	3276.	1.00	0.	0.	ND	NC	328.	NC	NC
10.95	1422.	32.2	13.8	3368.	1.00	0.	0.	ND	NC	327.	NC	NC
11.10	1433.	35.1	13.3	3275.	1.00	0.	0.	ND	NC	330.	NC	NC
11.25	1408.	35.6	12.8	3138.	1.00	0.	0.	ND	NC	324.	NC	NC
11.40	1390.	34.0	13.5	3323.	1.00	0.	0.	ND	NC	329.	NC	NC
11.55	1412.	34.1	13.5	3309.	1.00	0.	0.	ND	NC	325.	NC	NC
11.70	1390.	34.4	13.2	3251.	1.00	0.	0.	ND	NC	320.	NC	NC
11.85	1358.	33.8	13.2	3246.	1.00	0.	0.	ND	NC	312.	NC	NC
12.00	1358.	34.3	13.4	3305.	1.00	0.	0.	ND	NC	312.	NC	NC
12.15	1366.	35.3	13.3	3258.	1.00	0.	0.	ND	NC	314.	NC	NC
12.30	1387.	34.0	12.6	3109.	1.00	0.	0.	ND	NC	319.	NC	NC
12.45	1406.	30.2	13.3	3282.	1.00	0.	0.	ND	NC	323.	NC	NC
12.60	1436.	29.4	13.5	3311.	1.00	0.	0.	ND	NC	330.	NC	NC
12.75	1501.	29.2	12.9	3162.	1.00	0.	0.	ND	NC	345.	NC	NC
12.90	1491.	28.1	12.8	3136.	1.00	0.	0.	ND	NC	343.	NC	NC
13.05	1458.	27.8	13.4	3286.	1.00	0.	0.	ND	NC	335.	NC	NC
13.20	1434.	29.2	13.5	3329.	1.00	0.	0.	ND	NC	330.	NC	NC
13.35	1429.	30.9	13.4	3287.	1.00	0.	0.	ND	NC	329.	NC	NC
13.50	1428.	32.8	13.5	3325.	1.00	0.	0.	ND	NC	328.	NC	NC
13.65	1423.	33.5	14.0	3437.	1.00	0.	0.	ND	NC	327.	NC	NC
13.80	1423.	34.6	13.3	3268.	1.00	0.	0.	ND	NC	327.	NC	NC
13.95	1411.	34.7	12.4	3055.	1.00	0.	0.	ND	NC	324.	NC	NC
14.10	1398.	34.3	12.9	3162.	1.00	0.	0.	ND	NC	322.	NC	NC
14.25	1380.	33.9	13.0	3205.	1.00	0.	0.	ND	NC	317.	NC	NC
14.40	1341.	33.8	13.0	3185.	1.00	0.	0.	ND	NC	308.	NC	NC
14.55	1351.	33.6	13.3	3283.	1.00	0.	0.	ND	NC	311.	NC	NC
14.70	1371.	32.7	13.0	3195.	1.00	0.	0.	ND	NC	315.	NC	NC
14.85	1387.	32.7	12.7	3123.	1.00	0.	0.	ND	NC	319.	NC	NC
15.00	1397.	31.1	12.7	3134.	1.00	0.	0.	ND	NC	321.	NC	NC
15.15	1417.	28.0	12.8	3152.	1.00	0.	0.	ND	NC	326.	NC	NC
15.30	1472.	27.6	12.4	3048.	1.00	0.	0.	ND	NC	339.	NC	NC
15.45	1487.	27.5	12.3	3018.	1.00	0.	0.	ND	NC	342.	NC	NC
15.60	1465.	26.9	13.2	3249.	1.00	0.	0.	ND	NC	337.	NC	NC
15.75	1432.	26.9	13.8	3406.	1.00	0.	0.	ND	NC	329.	NC	NC
15.90	1430.	32.0	12.3	3027.	1.00	0.	0.	ND	NC	329.	NC	NC
16.05	1432.	35.0	12.6	3105.	1.01	0.9	58.	ND	NC	329.	NC	NC
16.20	1422.	34.7	12.7	3117.	1.01	0.7	45.	ND	NC	327.	NC	NC
16.35	1417.	35.7	12.0	2950.	1.00	0.	0.	ND	NC	326.	NC	NC
16.50	1422.	35.2	13.6	3354.	1.00	0.	0.	ND	NC	327.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1387.	34.8	12.9	3166.	1.00	0.	0.	ND	NC	319.	NC	NC
16.80	1350.	34.2	13.1	3214.	1.00	0.	0.	ND	NC	31[illegible].	NC	NC
16.95	1330.	33.8	13.4	3283.	1.00	0.	0.	ND	NC	306.	NC	NC
17.10	1366.	35.1	12.5	3079.	1.00	0.	0.	ND	NC	314.	NC	NC
17.25	1387.	32.9	12.2	3001.	1.00	0.	0.	ND	NC	319.	NC	NC
17.40	1422.	32.1	12.7	3119.	1.00	0.	0.	ND	NC	327.	NC	NC
17.55	1430.	30.5	12.6	3101.	1.00	0.	0.	ND	NC	329.	NC	NC
17.70	1429.	28.5	13.0	3207.	1.00	0.	0.	ND	NC	329.	NC	NC
17.85	1445.	26.1	13.4	3292.	1.00	0.	0.	ND	NC	332.	NC	NC
18.00	1440.	25.7	13.0	3185.	1.00	0.	0.	ND	NC	331.	NC	NC
18.15	1452.	26.6	12.0	2955.	1.00	0.	0.	ND	NC	334.	NC	NC
18.30	1427.	27.7	12.4	3047.	1.00	0.	0.	ND	NC	328.	NC	NC
18.45	1405.	30.3	13.7	3364.	1.00	0.	0.	ND	NC	323.	NC	NC
18.60	1417.	34.4	13.4	3289.	1.00	0.	0.	ND	NC	326.	NC	NC
18.75	1426.	35.5	12.9	3169.	1.00	0.	0.	ND	NC	328.	NC	NC
18.90	1417.	34.1	12.9	3167.	1.00	0.	0.	ND	NC	326.	NC	NC
19.05	1381.	33.9	13.5	3315.	1.00	0.	0.	ND	NC	318.	NC	NC
19.20	1362.	36.1	12.5	3066.	1.00	0.	0.	ND	NC	313.	NC	NC
19.35	1348.	33.5	12.4	3040.	1.00	0.	0.	ND	NC	310.	NC	NC
19.50	1334.	33.4	12.4	3060.	1.00	0.	0.	ND	NC	307.	NC	NC
19.65	1222.	33.1	11.5	2817.	1.00	0.	0.	ND	NC	281.	NC	NC
19.80	1061.	31.1	11.0	2713.	1.00	0.	0.	ND	NC	244.	NC	NC
19.95	919.	24.2	11.2	2756.	1.00	0.	0.	ND	NC	211.	NC	NC
20.10	804.	19.5	11.2	2747.	1.00	0.	0.	ND	NC	185.	NC	NC
20.25	781.	17.6	10.7	2643.	1.00	0.	0.	ND	NC	180.	NC	NC
20.40	799.	16.5	10.2	2517.	1.00	0.	0.	ND	NC	182.	NC	NC
20.55	759.	16.7	10.9	2671.	1.00	0.	0.	ND	NC	175.	NC	NC
20.70	730.	17.0	11.2	2742.	1.00	0.	0.	ND	NC	168.	NC	NC
20.85	716.	17.5	11.3	2782.	1.00	0.	0.	ND	NC	165.	NC	NC
21.00	708.	19.0	11.8	2910.	1.00	0.	0.	ND	NC	163.	NC	NC
21.15	717.	19.4	12.0	2939.	1.00	0.	0.	ND	NC	165.	NC	NC
21.30	729.	19.5	11.9	2915.	1.00	0.	0.	ND	NC	168.	NC	NC
21.45	732.	19.7	11.7	2887.	1.00	0.	0.	ND	NC	168.	NC	NC
21.60	731.	19.5	11.7	2881.	1.00	0.	0.	ND	NC	168.	NC	NC
21.75	707.	19.0	11.8	2891.	1.00	0.	0.	ND	NC	163.	NC	NC
21.90	710.	19.1	11.7	2867.	1.00	0.	0.	ND	NC	163.	NC	NC
22.05	719.	19.5	11.7	2867.	1.00	0.	0.	ND	NC	165.	NC	NC
22.20	729.	19.3	11.7	2875.	1.00	0.	0.	ND	NC	168.	NC	NC
22.35	732.	18.5	11.8	2893.	1.01	0.7	43.	ND	NC	168.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	740.	17.7	11.6	2856.	1.08	4.7	292.	ND	NC	173.	NC	NC
22.65	752.	16.9	11.7	2872.	1.02	1.4	85.	ND	NC	173.	NC	NC
22.80	753.	16.4	11.7	2875.	1.08	4.8	304.	ND	NC	173.	NC	NC
22.95	750.	15.8	11.7	2869.	1.06	3.3	208.	ND	NC	173.	NC	NC
23.10	733.	15.7	11.7	2877.	1.02	1.1	67.	ND	NC	169.	NC	NC
23.25	723.	16.0	11.8	2905.	1.01	0.3	21.	ND	NC	166.	NC	NC
23.40	707.	17.6	11.9	2924.	1.00	0.	0.	ND	NC	163.	NC	NC
23.55	711.	19.0	11.8	2893.	1.00	0.	0.	ND	NC	164.	NC	NC
23.70	713.	19.1	12.0	2956.	1.01	0.8	51.	ND	NC	164.	NC	NC
23.85	720.	16.9	12.0	2943.	1.01	0.8	55.	ND	NC	166.	NC	NC
24.00	705.	19.1	11.9	2928.	1.01	0.5	31.	ND	NC	162.	NC	NC
24.15	701.	19.1	11.9	2928.	1.01	0.7	47.	ND	NC	161.	NC	NC
24.30	700.	19.4	11.5	2821.	1.83	48.6	2996.	ND	NC	161.	NC	NC
24.45	704.	19.1	11.6	2854.	1.99	58.2	3631.	ND	NC	162.	NC	NC
24.60	722.	19.1	11.6	2845.	1.99	58.3	3625.	ND	NC	166.	NC	NC
24.75	729.	19.1	11.1	2732.	1.65	38.1	2274.	ND	NC	168.	NC	NC
24.90	731.	18.7	11.6	2845.	1.04	2.6	163.	ND	NC	168.	NC	NC
25.05	738.	18.1	11.9	2923.	1.02	1.0	66.	ND	NC	170.	NC	NC
25.20	750.	16.3	11.8	2911.	1.01	0.6	40.	ND	NC	172.	NC	NC
25.35	749.	15.7	11.8	2912.	1.01	0.4	23.	ND	NC	172.	NC	NC
25.50	741.	15.1	11.7	2871.	1.01	0.5	29.	ND	NC	170.	NC	NC
25.65	720.	15.1	11.6	2846.	1.97	57.3	3565.	ND	NC	166.	NC	NC
25.80	705.	15.3	11.5	2840.	1.98	57.6	3576.	ND	NC	162.	NC	NC
25.95	710.	16.2	11.6	2841.	1.36	21.3	1323.	ND	NC	163.	NC	NC
26.10	716.	17.6	11.7	2889.	1.04	2.3	143.	ND	NC	165.	NC	NC
26.25	724.	18.8	12.0	2950.	1.02	1.0	64.	ND	NC	167.	NC	NC
26.40	724.	18.9	12.1	2979.	1.15	8.7	565.	ND	NC	167.	NC	NC
26.55	716.	18.7	11.8	2891.	1.73	42.9	2709.	ND	NC	165.	NC	NC
26.70	688.	18.7	11.6	2857.	1.84	49.4	3085.	ND	NC	158.	NC	NC
26.85	693.	19.3	11.4	2811.	1.49	28.8	1766.	ND	NC	159.	NC	NC
27.00	702.	18.9	11.3	2787.	1.11	6.3	385.	ND	NC	161.	NC	NC
27.15	714.	18.7	11.4	2808.	1.01	0.7	42.	ND	NC	164.	NC	NC
27.30	721.	18.7	11.5	2839.	1.00	0.	0.	ND	NC	166.	NC	NC
27.45	731.	18.3	11.5	2825.	1.00	0.	0.	ND	NC	168.	NC	NC
27.60	743.	17.6	11.6	2859.	1.00	0.	0.	ND	NC	171.	NC	NC
27.75	754.	16.7	12.0	2950.	1.00	0.	0.	ND	NC	173.	NC	NC
27.90	763.	15.9	11.8	2912.	1.00	0.	0.	ND	NC	176.	NC	NC
28.05	751.	15.7	11.8	2912.	1.00	0.	0.	ND	NC	173.	NC	NC
28.20	732.	15.3	11.9	2932.	1.00	0.	0.	ND	NC	168.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	718.	15.3	12.0	2947.	1.00	0.	0.	ND	NC	165.	NC	NC
28.50	705.	16.6	12.0	2959.	1.00	0.	0.	ND	NC	162.	NC	NC
28.65	716.	18.2	12.1	2975.	1.00	0.	0.	ND	NC	165.	NC	NC
28.80	724.	19.0	11.7	2869.	1.00	0.	0.	ND	NC	166.	NC	NC
28.95	745.	19.8	11.3	2776.	1.00	0.	0.	ND	NC	171.	NC	NC
29.10	754.	21.4	11.3	2773.	1.00	0.	0.	ND	NC	173.	NC	NC
29.25	752.	22.1	10.9	2673.	1.00	0.	0.	ND	NC	173.	NC	NC
29.40	738.	22.5	10.4	2551.	1.00	0.	0.	ND	NC	170.	NC	NC
29.55	727.	22.7	10.3	2534.	1.00	0.	0.	ND	NC	167.	NC	NC
29.70	732.	22.6	10.5	2590.	1.00	0.	0.	ND	NC	168.	NC	NC
29.85	764.	22.6	10.5	2583.	1.00	0.	0.	ND	NC	176.	NC	NC
30.00	789.	22.3	10.4	2569.	1.00	0.	0.	ND	NC	181.	NC	NC
30.15	791.	21.8	10.4	2547.	1.00	0.	0.	ND	NC	182.	NC	NC
30.30	802.	20.2	10.2	2514.	1.00	0.	0.	ND	NC	184.	NC	NC
30.45	802.	19.0	10.2	2496.	1.00	0.	0.	ND	NC	184.	NC	NC
30.60	781.	18.6	10.3	2543.	1.00	0.	0.	ND	NC	180.	NC	NC
30.75	756.	18.6	10.1	2486.	1.00	0.	0.	ND	NC	174.	NC	NC
30.90	741.	19.4	10.0	2455.	1.00	0.	0.	ND	NC	171.	NC	NC
31.05	732.	20.3	10.0	2458.	1.00	0.	0.	ND	NC	168.	NC	NC
31.20	738.	22.0	10.0	2466.	1.00	0.	0.	ND	NC	170.	NC	NC
31.35	750.	23.1	9.9	2428.	1.00	0.	0.	ND	NC	173.	NC	NC
31.50	740.	22.7	9.8	2405.	1.00	0.	0.	ND	NC	170.	NC	NC
31.65	742.	23.2	10.1	2488.	1.00	0.	0.	ND	NC	171.	NC	NC
31.80	728.	22.8	10.0	2456.	1.00	0.	0.	ND	NC	167.	NC	NC
31.95	727.	22.2	9.6	2355.	1.00	0.	0.	ND	NC	167.	NC	NC
32.10	919.	24.5	9.8	2420.	1.00	0.	0.	ND	NC	211.	NC	NC
32.25	953.	26.8	10.2	2515.	1.00	0.	0.	ND	NC	219.	NC	NC
32.40	981.	27.1	10.6	2616.	1.03	1.8	105.	ND	NC	226.	NC	NC
32.55	1125.	27.2	11.4	2792.	1.04	2.2	137.	ND	NC	259.	NC	NC
32.70	1194.	29.1	11.9	2935.	1.00	0.	0.	ND	NC	275.	NC	NC
32.85	1222.	28.5	11.1	2727.	1.00	0.	0.	ND	NC	281.	NC	NC
33.00	1246.	26.2	11.1	2741.	1.00	0.	0.	ND	NC	287.	NC	NC
33.15	1219.	25.3	12.6	3091.	1.00	0.	0.	ND	NC	285.	NC	NC
33.30	1222.	25.4	12.3	3032.	1.00	0.	0.	ND	NC	281.	NC	NC
33.45	1207.	26.4	10.2	2499.	1.00	0.	0.	ND	NC	278.	NC	NC
33.60	1195.	28.5	11.7	2865.	1.00	0.	0.	ND	NC	275.	NC	NC
33.75	1194.	29.8	13.2	3235.	1.00	0.	0.	ND	NC	275.	NC	NC
33.90	1187.	30.8	12.9	3163.	1.00	0.	0.	ND	NC	273.	NC	NC
34.05	1170.	30.5	12.1	2971.	1.01	0.5	34.	ND	NC	269.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1160.	29.6	13.0	3192.	1.00	0.	0.	ND	NC	267.	NC	NC
34.35	1155.	30.0	13.0	3205.	1.00	0.	0.	ND	NC	266.	NC	NC
34.50	1156.	30.0	12.4	3041.	1.00	0.	0.	ND	NC	266.	NC	NC
34.65	1151.	29.7	12.7	3132.	1.02	1.3	99.	ND	NC	265.	NC	NC
34.80	1150.	29.6	12.9	3169.	1.00	0.	0.	ND	NC	265.	NC	NC
34.95	1168.	29.6	12.6	3088.	1.00	0.	0.	ND	NC	269.	NC	NC
35.10	1180.	29.8	12.5	3085.	1.00	0.	0.	ND	NC	271.	NC	NC
35.25	1189.	28.4	12.8	3156.	1.00	0.	0.	ND	NC	274.	NC	NC
35.40	1204.	27.0	13.1	3223.	1.00	0.	0.	ND	NC	277.	NC	NC
35.55	1219.	26.0	12.5	3079.	1.02	1.0	66.	ND	NC	280.	NC	NC
35.70	1225.	24.2	12.2	2998.	1.08	4.6	302.	ND	NC	282.	NC	NC
35.85	1199.	24.4	12.6	3104.	1.02	1.2	78.	ND	NC	276.	NC	NC
36.00	1184.	25.4	12.5	3072.	1.02	1.3	87.	ND	NC	272.	NC	NC
36.15	1188.	28.3	12.0	2943.	1.02	1.4	89.	ND	NC	273.	NC	NC
36.30	1201.	29.7	12.4	3046.	1.01	0.8	56.	ND	NC	276.	NC	NC
36.45	1201.	30.2	12.7	3119.	1.01	0.3	20.	ND	NC	276.	NC	NC
36.60	1175.	31.4	12.1	2987.	1.06	3.4	229.	ND	NC	270.	NC	NC
36.75	1169.	31.4	12.0	2941.	1.08	5.0	319.	ND	NC	269.	NC	NC
36.90	1167.	30.1	12.5	3071.	1.04	2.4	160.	ND	NC	268.	NC	NC
37.05	1149.	30.3	12.0	2950.	1.02	1.4	89.	ND	NC	264.	NC	NC
37.20	1143.	30.7	11.3	2772.	1.05	3.1	190.	ND	NC	263.	NC	NC
37.35	1163.	29.7	11.9	2935.	1.11	6.2	397.	ND	NC	267.	NC	NC
37.50	1150.	30.0	12.2	3007.	1.01	0.8	53.	ND	NC	265.	NC	NC
37.65	1183.	31.0	10.4	2555.	1.01	0.5	28.	ND	NC	272.	NC	NC
37.80	1207.	31.0	10.3	2533.	1.00	0.	0.	ND	NC	278.	NC	NC
37.95	1221.	26.5	11.6	2848.	1.00	0.	0.	ND	NC	281.	NC	NC
38.10	1243.	25.5	12.0	2939.	1.01	0.8	49.	ND	NC	286.	NC	NC
38.25	1243.	27.9	11.1	2727.	1.01	0.6	37.	ND	NC	286.	NC	NC
38.40	1234.	26.8	10.6	2609.	1.00	0.	0.	ND	NC	284.	NC	NC
38.55	1205.	27.2	12.2	3000.	1.00	0.	0.	ND	NC	277.	NC	NC
38.70	1195.	29.5	12.3	3020.	1.04	2.1	140.	ND	NC	275.	NC	NC
38.85	1205.	31.0	11.2	2763.	1.12	7.2	433.	ND	NC	277.	NC	NC
39.00	1198.	31.0	12.0	2962.	1.10	6.1	393.	ND	NC	276.	NC	NC
39.15	1187.	30.5	12.4	3039.	1.04	2.5	168.	ND	NC	273.	NC	NC
39.30	1184.	31.7	11.0	2704.	1.09	5.0	296.	ND	NC	272.	NC	NC
39.45	1177.	31.9	11.0	2713.	1.11	6.5	386.	ND	NC	271.	NC	NC
39.60	1166.	30.1	11.8	2893.	1.04	2.1	132.	ND	NC	268.	NC	NC
39.75	1148.	31.7	11.6	2854.	1.03	2.0	124.	ND	NC	264.	NC	NC
39.90	1156.	33.3	9.7	2377.	1.06	3.5	184.	ND	NC	266.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1194.	32.2	10.4	2561.	1.16	9.4	525.	ND	NC	275.	NC	NC
40.20	1209.	30.5	12.4	3047.	1.02	1.0	66.	ND	NC	276.	NC	NC
40.35	1211.	30.1	10.4	2549.	1.02	1.1	63.	ND	NC	279.	NC	NC
40.50	1248.	29.7	11.3	2774.	1.07	4.2	252.	ND	NC	287.	NC	NC
40.65	1278.	26.2	11.3	2786.	1.05	2.9	178.	ND	NC	294.	NC	NC
40.80	1251.	25.9	10.4	2570.	1.02	0.9	53.	ND	NC	288.	NC	NC
40.95	1231.	28.5	11.7	2884.	1.01	0.7	42.	ND	NC	283.	NC	NC
41.10	1215.	29.9	12.0	2954.	1.01	0.4	27.	ND	NC	279.	NC	NC
41.25	1215.	30.7	12.3	3024.	1.01	0.7	43.	ND	NC	279.	NC	NC
41.40	1195.	31.5	13.1	3217.	1.01	0.6	39.	ND	NC	275.	NC	NC
41.55	1192.	34.6	12.1	2983.	1.01	0.7	46.	ND	NC	274.	NC	NC
41.70	1196.	34.9	11.3	2773.	1.01	0.7	41.	ND	NC	275.	NC	NC
41.85	1185.	31.9	11.7	2883.	1.01	0.5	33.	ND	NC	273.	NC	NC
42.00	1154.	32.9	10.5	2581.	1.08	4.8	271.	ND	NC	266.	NC	NC
42.15	1190.	35.1	9.0	2209.	1.22	13.1	634.	ND	NC	274.	NC	NC
42.30	1246.	33.0	10.5	2588.	1.13	7.7	437.	ND	NC	287.	NC	NC
42.45	1285.	36.6	12.0	2960.	1.01	0.7	45.	ND	NC	295.	NC	NC
42.60	1322.	37.4	8.8	2165.	1.07	3.9	184.	ND	NC	304.	NC	NC
42.75	1362.	36.6	9.0	2205.	1.10	5.7	273.	ND	NC	313.	NC	NC
42.90	1377.	33.5	11.7	2879.	1.03	1.7	108.	ND	NC	317.	NC	NC
43.05	1390.	30.5	11.6	2850.	1.07	3.9	244.	ND	NC	320.	NC	NC
43.20	1473.	32.9	9.6	2365.	1.04	2.5	129.	ND	NC	339.	NC	NC
43.35	1490.	29.1	11.0	2697.	1.01	0.8	49.	ND	NC	343.	NC	NC
43.50	1360.	28.6	12.9	3161.	1.04	2.5	171.	ND	NC	313.	NC	NC
43.65	1350.	32.8	12.6	3109.	1.13	7.9	538.	ND	NC	311.	NC	NC
43.80	1378.	34.0	10.5	2592.	1.13	7.5	424.	ND	NC	317.	NC	NC
43.95	1355.	33.9	12.9	3160.	1.05	3.1	215.	ND	NC	312.	NC	NC
44.10	1341.	33.4	13.0	3193.	1.07	4.2	294.	ND	NC	308.	NC	NC
44.25	1340.	34.9	10.8	2666.	1.11	6.7	387.	ND	NC	308.	NC	NC
44.40	1341.	34.7	12.4	3056.	1.03	1.8	123.	ND	NC	308.	NC	NC
44.55	1308.	33.6	13.0	3200.	1.03	1.6	110.	ND	NC	301.	NC	NC
44.70	1272.	34.8	11.9	2935.	1.08	4.8	306.	ND	NC	293.	NC	NC
44.85	1294.	36.2	10.8	2667.	1.05	2.8	161.	ND	NC	298.	NC	NC
45.00	1317.	35.0	12.1	2978.	1.03	1.7	112.	ND	NC	303.	NC	NC
45.15	1340.	34.9	12.2	2989.	1.04	2.2	145.	ND	NC	308.	NC	NC
45.30	1362.	35.1	11.2	2763.	1.06	3.7	221.	ND	NC	313.	NC	NC
45.45	1386.	35.4	11.1	2721.	1.05	3.0	177.	ND	NC	319.	NC	NC
45.60	1399.	30.4	12.8	3142.	1.07	4.3	294.	ND	NC	322.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 15 78
RUN NUMBER- 27
SEGMENT NUMBER- 2
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1389.	30.2	11.1	2728.	1.05	2.9	173.	ND	NC	319.	NC	NC
0.15	1398.	28.8	12.7	3123.	1.08	4.7	324.	ND	NC	321.	NC	NC
0.30	1428.	28.9	11.8	2909.	1.14	8.5	538.	ND	NC	328.	NC	NC
0.45	1397.	28.6	10.6	2600.	1.23	13.5	769.	ND	NC	321.	NC	NC
0.60	1349.	28.6	12.5	3074.	1.07	4.3	267.	ND	NC	310.	NC	NC
0.75	1354.	32.8	12.5	3074.	1.10	5.7	386.	ND	NC	311.	NC	NC
0.90	1375.	37.4	9.7	2384.	1.04	2.1	109.	ND	NC	316.	NC	NC
1.05	1361.	37.6	8.4	2075.	1.01	0.5	23.	ND	NC	313.	NC	NC
1.20	1330.	33.3	12.6	3090.	1.01	0.5	37.	ND	NC	306.	NC	NC
1.35	1313.	36.3	11.8	2898.	1.01	0.3	20.	ND	NC	302.	NC	NC
1.50	1318.	37.8	9.2	2265.	1.01	0.4	21.	ND	NC	303.	NC	NC
1.65	1290.	35.5	12.0	2941.	1.01	0.4	27.	ND	NC	297.	NC	NC
1.80	1281.	34.1	12.3	3019.	1.06	3.6	235.	ND	NC	295.	NC	NC
1.95	1276.	34.4	11.9	2928.	1.21	12.6	808.	ND	NC	294.	NC	NC
2.10	1320.	34.6	12.3	3025.	1.22	13.0	860.	ND	NC	304.	NC	NC
2.25	1339.	32.6	12.8	3151.	1.14	8.4	577.	ND	NC	308.	NC	NC
2.40	1352.	31.4	12.8	3145.	1.17	10.2	701.	ND	NC	311.	NC	NC
2.55	1367.	30.2	12.6	3102.	1.22	13.1	885.	ND	NC	314.	NC	NC
2.70	1387.	27.6	12.8	3144.	1.19	11.2	769.	ND	NC	319.	NC	NC
2.85	1361.	27.6	13.0	3207.	1.17	10.0	700.	ND	NC	313.	NC	NC
3.00	1343.	28.0	12.8	3142.	1.20	11.8	812.	ND	NC	309.	NC	NC
3.15	1335.	28.7	12.8	3152.	1.20	11.9	819.	ND	NC	307.	NC	NC
3.30	1340.	30.6	13.1	3221.	1.16	9.6	674.	ND	NC	308.	NC	NC
3.45	1353.	33.2	13.1	3217.	1.20	11.9	837.	ND	NC	311.	NC	NC
3.60	1362.	34.9	12.6	3109.	1.23	13.7	933.	ND	NC	313.	NC	NC
3.75	1348.	35.3	12.6	3094.	1.19	11.2	757.	ND	NC	310.	NC	NC
3.90	1315.	33.8	12.3	3020.	1.19	11.2	739.	ND	NC	312.	NC	NC
4.05	1296.	36.8	10.6	2615.	1.25	14.8	848.	ND	NC	298.	NC	NC
4.20	1293.	36.3	10.4	2566.	1.26	15.4	863.	ND	NC	297.	NC	NC
4.35	1288.	35.9	11.6	2661.	1.23	13.4	836.	ND	NC	295.	NC	NC
4.50	1288.	33.7	11.3	2783.	1.22	12.7	773.	ND	NC	296.	NC	NC
4.65	1374.	37.4	9.3	2279.	1.31	18.0	898.	ND	NC	315.	NC	NC
4.80	1359.	38.2	10.6	2616.	1.28	16.7	954.	ND	NC	313.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1393.	33.5	11.9	2918.	1.21	12.4	790.	ND	NC	321.	NC	NC
5.10	1469.	32.3	10.3	2531.	1.27	15.6	863.	ND	NC	338.	NC	NC
5.25	1501.	33.5	9.4	2308.	1.31	18.1	914.	ND	NC	345.	NC	NC
5.40	1424.	32.6	11.1	2734.	1.17	10.2	612.	ND	NC	327.	NC	NC
5.55	1349.	30.6	11.5	2816.	1.24	14.2	872.	ND	NC	310.	NC	NC
5.70	1355.	34.5	9.2	2257.	1.29	16.9	832.	ND	NC	312.	NC	NC
5.85	1370.	39.5	9.1	2231.	1.27	15.9	774.	ND	NC	315.	NC	NC
6.00	1374.	38.8	12.6	3107.	1.18	10.7	724.	ND	NC	316.	NC	NC
6.15	1356.	36.7	9.7	2374.	1.27	15.7	812.	ND	NC	312.	NC	NC
6.30	1340.	41.6	8.9	2197.	1.28	16.6	799.	ND	NC	308.	NC	NC
6.45	1319.	40.6	10.0	2451.	1.20	11.6	622.	ND	NC	303.	NC	NC
6.60	1293.	37.3	11.3	2773.	1.20	11.8	712.	ND	NC	297.	NC	NC
6.75	1277.	36.7	9.8	2414.	1.30	17.9	945.	ND	NC	294.	NC	NC
6.90	1300.	39.5	9.5	2335.	1.31	18.2	928.	ND	NC	299.	NC	NC
7.05	1325.	37.6	11.0	2711.	1.24	14.3	846.	ND	NC	305.	NC	NC
7.20	1357.	35.5	11.5	2836.	1.18	10.8	667.	ND	NC	312.	NC	NC
7.35	1399.	36.5	9.1	2233.	1.31	18.0	876.	ND	NC	322.	NC	NC
7.50	1417.	33.9	10.1	2486.	1.28	16.6	903.	ND	NC	326.	NC	NC
7.65	1423.	30.7	11.8	2895.	1.17	9.9	627.	ND	NC	327.	NC	NC
7.80	1444.	30.2	11.1	2739.	1.26	15.2	912.	ND	NC	332.	NC	NC
7.95	1401.	31.5	9.7	2377.	1.29	17.0	885.	ND	NC	322.	NC	NC
8.10	1363.	31.2	10.7	2619.	1.18	10.9	622.	ND	NC	314.	NC	NC
8.25	1344.	33.3	12.1	2987.	1.23	13.5	879.	ND	NC	309.	NC	NC
8.40	1330.	37.0	10.9	2678.	1.26	15.2	891.	ND	NC	306.	NC	NC
8.55	1373.	37.6	11.0	2717.	1.26	15.5	918.	ND	NC	316.	NC	NC
8.70	1373.	35.3	12.5	3077.	1.20	11.8	793.	ND	NC	316.	NC	NC
8.85	1328.	35.4	11.2	2755.	1.24	14.0	842.	ND	NC	305.	NC	NC
9.00	1312.	37.0	10.9	2677.	1.27	15.8	923.	ND	NC	302.	NC	NC
9.15	1288.	36.2	11.7	2867.	1.23	13.6	854.	ND	NC	296.	NC	NC
9.30	1281.	34.9	12.1	2974.	1.19	11.4	741.	ND	NC	295.	NC	NC
9.45	1293.	36.2	10.8	2665.	1.25	14.9	865.	ND	NC	297.	NC	NC
9.60	1328.	36.0	11.2	2752.	1.25	15.0	901.	ND	NC	306.	NC	NC
9.75	1352.	32.9	12.1	2982.	1.19	11.1	723.	ND	NC	311.	NC	NC
9.90	1365.	32.1	11.9	2933.	1.16	9.5	607.	ND	NC	314.	NC	NC
10.05	1434.	32.5	10.1	2483.	1.28	16.4	887.	ND	NC	332.	NC	NC
10.20	1426.	29.2	12.4	3055.	1.21	12.5	832.	ND	NC	328.	NC	NC
10.35	1382.	29.0	12.7	3120.	1.16	9.2	629.	ND	NC	318.	NC	NC
10.50	1358.	29.7	11.9	2930.	1.25	14.6	937.	ND	NC	312.	NC	NC
10.65	1359.	31.8	11.1	2726.	1.26	15.4	915.	ND	NC	313.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1344.	33.1	12.3	3036.	1.17	9.9	659.	ND	NC	309.	NC	NC
10.95	1325.	34.1	12.5	3062.	1.21	12.1	811.	ND	NC	305.	NC	NC
11.10	1323.	36.1	11.2	2758.	1.25	14.4	870.	ND	NC	304.	NC	NC
11.25	1379.	36.2	11.2	2748.	1.24	13.8	831.	ND	NC	317.	NC	NC
11.40	1303.	34.5	12.3	3037.	1.18	10.7	713.	ND	NC	300.	NC	NC
11.55	1274.	35.1	11.0	2705.	1.22	12.7	751.	ND	NC	293.	NC	NC
11.70	1278.	36.8	10.9	2684.	1.26	15.2	893.	ND	NC	294.	NC	NC
11.85	1278.	36.0	11.9	2921.	1.22	12.8	819.	ND	NC	294.	NC	NC
12.00	1296.	34.1	12.1	2968.	1.16	9.6	622.	ND	NC	298.	NC	NC
12.15	1354.	35.9	10.7	2620.	1.29	17.2	983.	ND	NC	311.	NC	NC
12.30	1372.	35.3	10.0	2468.	1.28	16.7	898.	ND	NC	316.	NC	NC
12.45	1373.	33.2	11.5	2816.	1.24	14.2	875.	ND	NC	316.	NC	NC
12.60	1391.	31.2	12.0	2940.	1.22	12.7	814.	ND	NC	320.	NC	NC
12.75	1505.	30.8	10.0	2463.	1.29	17.3	931.	ND	NC	346.	NC	NC
12.90	1430.	33.1	10.2	2512.	1.26	15.4	843.	ND	NC	329.	NC	NC
13.05	1377.	30.7	11.6	2858.	1.15	8.7	545.	ND	NC	317.	NC	NC
13.20	1342.	31.9	10.9	2675.	1.23	13.7	801.	ND	NC	309.	NC	NC
13.35	1364.	39.0	9.2	2259.	1.29	17.3	854.	ND	NC	314.	NC	NC
13.50	1371.	38.3	10.1	2490.	1.17	9.9	540.	ND	NC	315.	NC	NC
13.65	1354.	35.7	12.5	3084.	1.16	9.6	645.	ND	NC	311.	NC	NC
13.80	1352.	38.4	10.3	2526.	1.24	14.2	794.	ND	NC	311.	NC	NC
13.95	1365.	39.9	9.1	2250.	1.28	16.6	814.	ND	NC	314.	NC	NC
14.10	1288.	37.1	11.3	2776.	1.20	11.7	710.	ND	NC	296.	NC	NC
14.25	1271.	37.1	10.4	2561.	1.22	12.8	716.	ND	NC	292.	NC	NC
14.40	1288.	39.4	9.2	2255.	1.30	17.4	857.	ND	NC	296.	NC	NC
14.55	1314.	39.9	9.5	2347.	1.30	17.7	910.	ND	NC	302.	NC	NC
14.70	1344.	35.5	11.2	2745.	1.21	12.4	745.	ND	NC	309.	NC	NC
14.85	1399.	37.1	9.7	2382.	1.28	16.5	858.	ND	NC	322.	NC	NC
15.00	1439.	36.1	9.3	2292.	1.30	17.9	895.	ND	NC	331.	NC	NC
15.15	1442.	33.0	9.9	2427.	1.26	15.2	807.	ND	NC	332.	NC	NC
15.30	1428.	30.6	11.9	2933.	1.16	9.3	593.	ND	NC	328.	NC	NC
15.45	1425.	32.1	9.8	2410.	1.29	16.8	885.	ND	NC	328.	NC	NC
15.60	1415.	33.6	9.2	2264.	1.27	15.8	779.	ND	NC	325.	NC	NC
15.75	1378.	33.7	11.3	2776.	1.17	9.8	594.	ND	NC	315.	NC	NC
15.90	1350.	35.4	10.9	2679.	1.21	12.6	737.	ND	NC	311.	NC	NC
16.05	1369.	42.0	9.0	2210.	1.29	16.8	810.	ND	NC	313.	NC	NC
16.20	1366.	40.3	9.3	2276.	1.20	12.0	599.	ND	NC	314.	NC	NC
16.35	1331.	36.5	11.4	2797.	1.17	10.0	609.	ND	NC	306.	NC	NC
16.50	1303.	39.2	9.7	2387.	1.21	12.3	640.	ND	NC	300.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1317.	39.9	8.8	2168.	1.31	18.4	872.	ND	NC	303.	NC	NC
16.80	1293.	36.8	11.0	2712.	1.24	13.9	823.	ND	NC	297.	NC	NC
16.95	1303.	36.5	10.7	2629.	1.14	8.4	481.	ND	NC	300.	NC	NC
17.10	1349.	37.8	9.4	2305.	1.32	18.7	943.	ND	NC	319.	NC	NC
17.25	1347.	38.7	10.0	2467.	1.31	18.5	998.	ND	NC	317.	NC	NC
17.40	1357.	32.5	11.7	2871.	1.13	7.9	495.	ND	NC	312.	NC	NC
17.55	1419.	31.9	9.7	2379.	1.29	17.0	882.	ND	NC	326.	NC	NC
17.70	1465.	33.1	10.2	2514.	1.30	17.4	956.	ND	NC	337.	NC	NC
17.85	1435.	29.8	11.5	2821.	1.22	13.2	811.	ND	NC	330.	NC	NC
18.00	1365.	28.4	12.5	3064.	1.12	7.1	478.	ND	NC	314.	NC	NC
18.15	1355.	32.1	10.7	2622.	1.26	15.1	866.	ND	NC	312.	NC	NC
18.30	1345.	33.7	11.6	2859.	1.25	14.5	909.	ND	NC	309.	NC	NC
18.45	1317.	33.3	12.5	3083.	1.12	7.0	470.	ND	NC	303.	NC	NC
18.60	1330.	32.7	12.6	3098.	1.14	8.0	542.	ND	NC	306.	NC	NC
18.75	1349.	33.8	11.6	2854.	1.02	0.9	58.	ND	NC	310.	NC	NC
18.90	1355.	32.0	11.3	2770.	1.00	0.	0.	ND	NC	312.	NC	NC
19.05	1271.	31.8	13.1	3214.	1.00	0.	0.	ND	NC	292.	NC	NC
19.20	1255.	33.9	14.0	3435.	1.00	0.	0.	ND	NC	289.	NC	NC
19.35	1285.	33.6	10.8	2668.	1.00	0.	0.	ND	NC	296.	NC	NC
19.50	1307.	32.4	12.6	3092.	1.00	0.	0.	ND	NC	301.	NC	NC
19.65	1326.	31.7	12.4	3053.	1.00	0.	0.	ND	NC	305.	NC	NC
19.80	1344.	31.2	11.9	2933.	1.12	7.1	452.	ND	NC	309.	NC	NC
19.95	1351.	30.2	12.2	2997.	1.07	4.1	269.	ND	NC	311.	NC	NC
20.10	1382.	28.5	12.3	3027.	1.07	4.0	266.	ND	NC	318.	NC	NC
20.25	1416.	28.4	11.8	2912.	1.17	10.3	654.	ND	NC	326.	NC	NC
20.40	1398.	28.2	11.7	2885.	1.21	12.1	763.	ND	NC	321.	NC	NC
20.55	1363.	27.9	12.8	3143.	1.15	8.5	586.	ND	NC	313.	NC	NC
20.70	1330.	31.9	12.7	3114.	1.13	7.6	518.	ND	NC	306.	NC	NC
20.85	1336.	34.1	11.4	2810.	1.20	11.8	724.	ND	NC	307.	NC	NC
21.00	1330.	34.8	12.4	3053.	1.17	9.7	648.	ND	NC	306.	NC	NC
21.15	1327.	33.9	12.6	3107.	1.12	7.0	476.	ND	NC	305.	NC	NC
21.30	1327.	33.9	11.6	2857.	1.18	10.8	675.	ND	NC	305.	NC	NC
21.45	1324.	34.9	12.0	2949.	1.22	13.0	837.	ND	NC	305.	NC	NC
21.60	1291.	33.5	12.1	2974.	1.17	9.8	638.	ND	NC	297.	NC	NC
21.75	1276.	33.3	11.1	2742.	1.15	8.8	528.	ND	NC	294.	NC	NC
21.90	1290.	35.9	10.5	2577.	1.21	12.4	699.	ND	NC	297.	NC	NC
22.05	1312.	35.1	10.7	2638.	1.24	14.3	824.	ND	NC	302.	NC	NC
22.20	1324.	33.1	12.3	3013.	1.14	8.0	527.	ND	NC	305.	NC	NC
22.35	1357.	32.4	11.8	2900.	1.14	8.4	535.	ND	NC	312.	NC	NC

RUN NUMBER- 27
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1387.	31.9	12.2	2991.	1.27	15.9	1042.	ND	NC	319.	NC	NC
22.65	1397.	29.3	12.4	3045.	1.21	12.4	826.	ND	NC	321.	NC	NC
22.80	1394.	28.2	12.3	3033.	1.14	7.9	526.	ND	NC	321.	NC	NC
22.95	1388.	30.5	10.2	2517.	1.23	13.5	744.	ND	NC	319.	NC	NC
23.10	1369.	31.3	10.3	2544.	1.08	4.8	269.	ND	NC	315.	NC	NC
23.25	1341.	31.7	12.4	3059.	1.07	4.0	267.	ND	NC	308.	NC	NC
23.40	1345.	35.4	12.8	3136.	1.14	8.1	556.	ND	NC	309.	NC	NC
23.55	1347.	37.4	9.3	2291.	1.22	12.9	646.	ND	NC	310.	NC	NC
23.70	1334.	35.5	12.2	2989.	1.21	12.1	788.	ND	NC	307.	NC	NC
23.85	1323.	35.1	12.4	3038.	1.16	9.4	623.	ND	NC	304.	NC	NC
24.00	1354.	36.6	10.9	2673.	1.16	9.4	549.	ND	NC	311.	NC	NC
24.15	1297.	37.8	9.9	2446.	1.26	15.4	825.	ND	NC	298.	NC	NC
24.30	1276.	36.3	11.2	2745.	1.09	5.1	303.	ND	NC	293.	NC	NC
24.45	1221.	36.1	11.4	2807.	1.16	9.6	589.	ND	NC	281.	NC	NC
24.60	1156.	36.4	10.8	2464.	1.27	16.1	867.	ND	NC	266.	NC	NC
24.75	1163.	34.9	10.2	2519.	1.21	12.1	654.	ND	NC	268.	NC	NC
24.90	1125.	30.7	12.2	3006.	1.18	10.4	686.	ND	NC	259.	NC	NC
25.05	1142.	27.6	11.3	2777.	1.25	14.6	884.	ND	NC	263.	NC	NC
25.20	1146.	27.3	9.6	2358.	1.28	16.5	849.	ND	NC	264.	NC	NC
25.35	1081.	24.6	11.4	2808.	1.17	9.9	609.	ND	NC	249.	NC	NC
25.50	1000.	21.1	12.6	3092.	1.09	5.5	372.	ND	NC	230.	NC	NC
25.65	967.	20.9	10.9	2673.	1.20	11.9	696.	ND	NC	222.	NC	NC
25.80	957.	23.8	13.3	3271.	1.05	3.2	227.	ND	NC	220.	NC	NC
25.95	950.	26.3	12.8	3154.	1.01	0.7	45.	ND	NC	219.	NC	NC
26.10	874.	25.1	11.5	2829.	1.00	0.	0.	ND	NC	201.	NC	NC
26.25	786.	22.5	11.6	2848.	1.00	0.	0.	ND	NC	181.	NC	NC
26.40	761.	22.1	11.1	2721.	1.00	0.	0.	ND	NC	175.	NC	NC
26.55	792.	22.2	9.7	2385.	1.00	0.	0.	ND	NC	182.	NC	NC
26.70	798.	20.7	10.1	2489.	1.00	0.	0.	ND	NC	183.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 18 78
RUN NUMBER- 28
SEGMENT NUMBER- 1
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.60
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	33.	-0.4	0.1	21.	1.01	0.4	0.	ND	NC	8.	NC	NC
0.15	40.	-0.3	0.0	12.	1.01	0.6	0.	ND	NC	9.	NC	NC
0.30	12.	-0.3	0.1	24.	1.00	0.	0.	ND	NC	3.	NC	NC
0.45	4.	0.0	0.0	6.	1.00	0.	0.	ND	NC	1.	NC	NC
0.60	3.	0.3	0.0	5.	1.01	0.3	0.	ND	NC	1.	NC	NC
0.75	6.	1.3	0.0	10.	1.01	0.5	0.	ND	NC	1.	NC	NC
0.90	29.	2.2	0.1	20.	1.01	0.6	0.	ND	NC	7.	NC	NC
1.05	54.	2.5	0.1	23.	1.01	0.5	0.	ND	NC	12.	NC	NC
1.20	64.	4.7	0.1	14.	1.00	0.	0.	ND	NC	15.	NC	NC
1.35	6.	6.8	0.1	17.	1.01	0.3	0.	ND	NC	2.	NC	NC
1.50	22.	8.8	0.1	24.	1.01	0.4	0.	ND	NC	5.	NC	NC
1.65	255.	11.0	2.3	565.	1.01	0.3	4.	ND	NC	59.	NC	NC
1.80	320.	12.7	2.8	694.	1.00	0.	0.	ND	NC	74.	NC	NC
1.95	369.	12.9	2.6	641.	1.00	0.	0.	ND	NC	85.	NC	NC
2.10	411.	13.2	2.4	587.	1.00	0.	0.	ND	NC	95.	NC	NC
2.25	361.	12.9	2.1	517.	1.00	0.	0.	ND	NC	83.	NC	NC
2.40	166.	13.6	2.0	490.	1.00	0.	0.	ND	NC	38.	NC	NC
2.55	-1.	14.4	2.1	525.	1.00	0.	0.	ND	NC	-0.	NC	NC
2.70	3.	16.6	2.5	609.	1.00	0.	0.	ND	NC	1.	NC	NC
2.85	212.	16.6	3.1	767.	1.00	0.	0.	ND	NC	49.	NC	NC
3.00	380.	15.2	3.7	906.	1.00	0.	0.	ND	NC	87.	NC	NC
3.15	427.	13.1	4.2	1033.	1.00	0.	0.	ND	NC	98.	NC	NC
3.30	424.	10.7	7.4	1823.	1.00	0.	0.	ND	NC	97.	NC	NC
3.45	418.	10.5	9.2	2263.	1.00	0.	0.	ND	NC	96.	NC	NC
3.60	415.	10.0	8.7	2133.	1.01	0.3	16.	ND	NC	95.	NC	NC
3.75	423.	9.9	8.7	2150.	1.00	0.	0.	ND	NC	97.	NC	NC
3.90	421.	9.9	8.9	2182.	1.00	0.	0.	ND	NC	97.	NC	NC
4.05	448.	9.9	9.0	2219.	1.00	0.	0.	ND	NC	103.	NC	NC
4.20	446.	9.7	9.1	2244.	1.00	0.	0.	ND	NC	103.	NC	NC
4.35	445.	9.5	9.1	2239.	1.00	0.	0.	ND	NC	102.	NC	NC
4.50	445.	9.2	9.0	2208.	1.00	0.	0.	ND	NC	102.	NC	NC
4.65	445.	9.3	9.0	2216.	1.00	0.	0.	ND	NC	102.	NC	NC
4.80	447.	9.9	8.9	2195.	1.00	0.	0.	ND	NC	103.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	446.	10.3	8.6	2124.	1.00	0.	0.	ND	NC	103.	NC	NC
5.10	441.	10.8	8.2	2018.	1.00	0.	0.	ND	NC	102.	NC	NC
5.25	431.	12.2	7.7	1899.	1.00	0.	0.	ND	NC	99.	NC	NC
5.40	454.	13.9	7.6	1861.	1.00	0.	0.	ND	NC	104.	NC	NC
5.55	481.	14.9	7.9	1939.	1.00	0.	0.	ND	NC	111.	NC	NC
5.70	518.	15.9	8.1	1981.	1.02	1.0	42.	ND	NC	119.	NC	NC
5.85	516.	15.9	7.5	1856.	1.04	2.3	93.	ND	NC	119.	NC	NC
6.00	543.	15.8	7.6	1866.	1.07	4.0	164.	ND	NC	125.	NC	NC
6.15	589.	16.6	7.7	1901.	1.06	3.5	147.	ND	NC	136.	NC	NC
6.30	625.	17.1	8.0	1962.	1.07	4.2	179.	ND	NC	144.	NC	NC
6.45	634.	18.1	8.4	2077.	1.08	4.6	208.	ND	NC	146.	NC	NC
6.60	633.	18.1	8.6	2112.	1.10	5.7	265.	ND	NC	146.	NC	NC
6.75	637.	17.7	8.6	2126.	1.09	5.5	256.	ND	NC	146.	NC	NC
6.90	679.	17.3	8.7	2142.	1.08	4.5	209.	ND	NC	156.	NC	NC
7.05	795.	17.4	9.0	2216.	1.09	5.1	245.	ND	NC	183.	NC	NC
7.20	825.	17.5	9.3	2279.	1.09	5.5	276.	ND	NC	190.	NC	NC
7.35	839.	17.7	9.8	2414.	1.07	4.2	222.	ND	NC	193.	NC	NC
7.50	843.	17.9	10.0	2471.	1.07	4.0	216.	ND	NC	194.	NC	NC
7.65	829.	17.9	10.3	2542.	1.07	3.9	217.	ND	NC	191.	NC	NC
7.80	819.	18.6	10.2	2513.	1.05	2.8	156.	ND	NC	188.	NC	NC
7.95	816.	19.9	10.4	2552.	1.04	2.2	125.	ND	NC	188.	NC	NC
8.10	826.	21.1	10.5	2576.	1.03	1.9	104.	ND	NC	190.	NC	NC
8.25	827.	21.3	10.4	2553.	1.03	1.7	96.	ND	NC	190.	NC	NC
8.40	810.	21.7	10.2	2515.	1.02	1.4	75.	ND	NC	186.	NC	NC
8.55	807.	22.0	10.3	2534.	1.01	0.4	24.	ND	NC	186.	NC	NC
8.70	803.	21.7	10.7	2633.	1.01	0.4	25.	ND	NC	185.	NC	NC
8.85	794.	21.7	10.8	2667.	1.00	0.	0.	ND	NC	183.	NC	NC
9.00	796.	21.7	10.8	2655.	1.00	0.	0.	ND	NC	183.	NC	NC
9.15	808.	21.4	10.5	2585.	1.00	0.	0.	ND	NC	186.	NC	NC
9.30	813.	21.7	10.3	2540.	1.01	0.5	27.	ND	NC	187.	NC	NC
9.45	812.	21.5	10.2	2521.	1.02	0.9	52.	ND	NC	187.	NC	NC
9.60	817.	20.9	10.4	2553.	1.02	1.1	63.	ND	NC	188.	NC	NC
9.75	823.	20.2	10.6	2596.	1.03	1.6	92.	ND	NC	189.	NC	NC
9.90	824.	19.4	10.2	2518.	1.04	2.4	134.	ND	NC	189.	NC	NC
10.05	840.	18.5	10.4	2563.	1.03	1.8	101.	ND	NC	193.	NC	NC
10.20	848.	17.7	10.3	2530.	1.03	2.0	111.	ND	NC	195.	NC	NC
10.35	843.	17.9	9.8	2419.	1.09	5.3	279.	ND	NC	194.	NC	NC
10.50	818.	18.6	9.9	2429.	1.08	4.7	250.	ND	NC	188.	NC	NC
10.65	799.	19.6	9.9	2428.	1.08	4.7	248.	ND	NC	184.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	794.	21.9	9.5	2330.	1.08	4.8	243.	ND	NC	183.	NC	NC
10.95	795.	22.6	9.3	2295.	1.10	5.7	286.	ND	NC	183.	NC	NC
11.10	808.	22.2	9.5	2325.	1.11	6.3	320.	ND	NC	186.	NC	NC
11.25	807.	22.3	9.5	2335.	1.07	4.3	222.	ND	NC	186.	NC	NC
11.40	804.	22.2	9.3	2277.	1.07	3.9	195.	ND	NC	185.	NC	NC
11.55	797.	23.2	9.3	2275.	1.15	8.6	425.	ND	NC	183.	NC	NC
11.70	789.	21.8	9.3	2299.	1.11	6.3	319.	ND	NC	181.	NC	NC
11.85	786.	21.4	9.3	2296.	1.02	1.2	58.	ND	NC	181.	NC	NC
12.00	784.	22.8	9.0	2252.	1.16	9.6	461.	ND	NC	180.	NC	NC
12.15	784.	22.3	8.5	2096.	1.24	14.3	653.	ND	NC	181.	NC	NC
12.30	799.	20.3	9.0	2216.	1.17	9.9	481.	ND	NC	184.	NC	NC
12.45	825.	20.7	9.3	2298.	1.07	4.3	216.	ND	NC	193.	NC	NC
12.60	814.	20.7	8.5	2092.	1.13	7.5	341.	ND	NC	186.	NC	NC
12.75	834.	19.7	8.2	2025.	1.14	8.3	367.	ND	NC	192.	NC	NC
12.90	832.	17.6	9.0	2215.	1.04	2.5	120.	ND	NC	191.	NC	NC
13.05	828.	17.9	9.7	2378.	1.01	0.8	39.	ND	NC	190.	NC	NC
13.20	916.	20.3	8.5	2095.	1.08	4.6	211.	ND	NC	211.	NC	NC
13.35	936.	21.7	8.4	2066.	1.03	1.5	69.	ND	NC	215.	NC	NC
13.50	955.	23.4	10.5	2577.	1.01	0.5	27.	ND	NC	220.	NC	NC
13.65	972.	28.1	10.7	2637.	1.00	0.	0.	ND	NC	224.	NC	NC
13.80	969.	29.7	7.6	1864.	1.00	0.	0.	ND	NC	223.	NC	NC
13.95	964.	29.0	10.9	2681.	1.00	0.	0.	ND	NC	222.	NC	NC
14.10	952.	26.6	11.2	2765.	1.00	0.	0.	ND	NC	219.	NC	NC
14.25	951.	26.7	10.8	2661.	1.05	3.2	186.	ND	NC	219.	NC	NC
14.40	966.	25.3	10.5	2571.	1.17	10.0	562.	ND	NC	222.	NC	NC
14.55	955.	24.6	10.9	2675.	1.03	1.8	108.	ND	NC	220.	NC	NC
14.70	943.	25.5	10.5	2589.	1.04	2.2	126.	ND	NC	217.	NC	NC
14.85	937.	25.5	10.3	2536.	1.10	6.2	342.	ND	NC	215.	NC	NC
15.00	943.	23.8	10.9	2692.	1.10	5.8	343.	ND	NC	217.	NC	NC
15.15	962.	23.8	11.2	2748.	1.05	3.0	181.	ND	NC	221.	NC	NC
15.30	979.	25.1	10.4	2558.	1.05	3.0	170.	ND	NC	225.	NC	NC
15.45	994.	24.0	9.6	2369.	1.00	0.	0.	ND	NC	229.	NC	NC
15.60	1000.	21.4	11.7	2886.	1.00	0.	0.	ND	NC	230.	NC	NC
15.75	1004.	21.0	11.3	2771.	1.00	0.	0.	ND	NC	231.	NC	NC
15.90	1008.	21.5	10.3	2539.	1.17	9.8	546.	ND	NC	232.	NC	NC
16.05	976.	21.8	11.2	2750.	1.09	5.3	320.	ND	NC	224.	NC	NC
16.20	953.	23.2	11.9	2923.	1.03	1.8	114.	ND	NC	219.	NC	NC
16.35	937.	26.3	11.1	2720.	1.00	0.	0.	ND	NC	215.	NC	NC
16.50	966.	29.7	6.2	1518.	1.00	0.	0.	ND	NC	222.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	980.	28.2	10.6	2607.	1.00	0.	0.	ND	NC	225.	NC	NC
16.80	973.	27.0	11.8	2911.	1.02	1.4	87.	ND	NC	224.	NC	NC
16.95	960.	27.5	10.2	2508.	1.08	4.7	259.	ND	NC	221.	NC	NC
17.10	948.	27.5	10.3	2530.	1.08	4.7	258.	ND	NC	218.	NC	NC
17.25	966.	26.5	11.4	2795.	1.00	0.	0.	ND	NC	222.	NC	NC
17.40	991.	27.1	11.4	2797.	1.01	0.7	43.	ND	NC	228.	NC	NC
17.55	1016.	27.5	11.0	2715.	1.08	4.9	291.	ND	NC	234.	NC	NC
17.70	1060.	26.3	12.0	2950.	1.04	2.5	162.	ND	NC	244.	NC	NC
17.85	1084.	26.0	12.4	3043.	1.00	0.	0.	ND	NC	249.	NC	NC
18.00	1093.	24.3	10.7	2620.	1.00	0.	0.	ND	NC	251.	NC	NC
18.15	1101.	23.2	12.3	3021.	1.00	0.	0.	ND	NC	253.	NC	NC
18.30	1107.	22.4	12.6	3093.	1.00	0.	0.	ND	NC	255.	NC	NC
18.45	1116.	22.0	12.5	3075.	1.00	0.	0.	ND	NC	257.	NC	NC
18.60	1106.	22.7	12.3	3021.	1.00	0.	0.	ND	NC	254.	NC	NC
18.75	1085.	23.1	12.3	3030.	1.00	0.	0.	ND	NC	250.	NC	NC
18.90	1083.	25.4	12.3	3036.	1.00	0.	0.	ND	NC	249.	NC	NC
19.05	1102.	27.3	12.3	3019.	1.00	0.	0.	ND	NC	253.	NC	NC
19.20	1080.	27.9	12.4	3049.	1.01	0.6	38.	ND	NC	248.	NC	NC
19.35	1076.	27.6	12.3	3031.	1.00	0.	0.	ND	NC	248.	NC	NC
19.50	1034.	27.3	12.4	3039.	1.00	0.	0.	ND	NC	238.	NC	NC
19.65	977.	27.1	12.1	2965.	1.01	0.8	53.	ND	NC	225.	NC	NC
19.80	922.	24.5	11.8	2899.	1.00	0.	0.	ND	NC	212.	NC	NC
19.95	887.	23.9	11.5	2820.	1.00	0.	0.	ND	NC	204.	NC	NC
20.10	866.	22.9	10.9	2685.	1.00	0.	0.	ND	NC	199.	NC	NC
20.25	864.	22.4	10.8	2657.	1.00	0.	0.	ND	NC	199.	NC	NC
20.40	864.	21.2	11.0	2699.	1.00	0.	0.	ND	NC	199.	NC	NC
20.55	876.	19.9	11.3	2776.	1.00	0.	0.	ND	NC	202.	NC	NC
20.70	874.	18.5	11.1	2735.	1.00	0.	0.	ND	NC	201.	NC	NC
20.85	871.	17.9	11.4	2812.	1.00	0.	0.	ND	NC	200.	NC	NC
21.00	873.	17.7	11.6	2847.	1.00	0.	0.	ND	NC	201.	NC	NC
21.15	887.	17.3	11.7	2869.	1.00	0.	0.	ND	NC	204.	NC	NC
21.30	868.	17.1	11.7	2882.	1.00	0.	0.	ND	NC	200.	NC	NC
21.45	777.	16.9	11.7	2868.	1.00	0.	0.	ND	NC	179.	NC	NC
21.60	754.	18.7	11.5	2821.	1.00	0.	0.	ND	NC	173.	NC	NC
21.75	760.	19.3	11.8	2893.	1.00	0.	0.	ND	NC	175.	NC	NC
21.90	762.	19.1	11.8	2891.	1.00	0.	0.	ND	NC	175.	NC	NC
22.05	757.	19.5	11.3	2784.	1.00	0.	0.	ND	NC	174.	NC	NC
22.20	754.	20.2	11.6	2847.	1.00	0.	0.	ND	NC	173.	NC	NC
22.35	767.	20.0	11.8	2910.	1.00	0.	0.	ND	NC	176.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	770.	19.4	11.5	2832.	1.00	0.	0.	ND	NC	177.	NC	NC
22.65	759.	19.4	11.5	2827.	1.00	0.	0.	ND	NC	175.	NC	NC
22.80	751.	19.4	11.5	2825.	1.00	0.	0.	ND	NC	173.	NC	NC
22.95	749.	19.4	11.4	2806.	1.00	0.	0.	ND	NC	172.	NC	NC
23.10	755.	18.5	11.4	2806.	1.00	0.	0.	ND	NC	174.	NC	NC
23.25	763.	18.0	11.7	2877.	1.00	0.	0.	ND	NC	175.	NC	NC
23.40	766.	16.8	11.3	2769.	1.00	0.	0.	ND	NC	176.	NC	NC
23.55	781.	16.7	11.4	2805.	1.00	0.	0.	ND	NC	180.	NC	NC
23.70	780.	15.8	11.4	2808.	1.00	0.	0.	ND	NC	179.	NC	NC
23.85	767.	15.8	11.4	2808.	1.00	0.	0.	ND	NC	176.	NC	NC
24.00	756.	16.5	11.3	2787.	1.00	0.	0.	ND	NC	174.	NC	NC
24.15	751.	17.4	11.4	2806.	1.00	0.	0.	ND	NC	173.	NC	NC
24.30	745.	18.5	11.5	2829.	1.00	0.	0.	ND	NC	171.	NC	NC
24.45	759.	19.3	11.6	2862.	1.00	0.	0.	ND	NC	174.	NC	NC
24.60	758.	19.8	11.8	2911.	1.00	0.	0.	ND	NC	174.	NC	NC
24.75	762.	20.1	11.5	2824.	1.00	0.	0.	ND	NC	175.	NC	NC
24.90	748.	20.2	11.5	2839.	1.00	0.	0.	ND	NC	172.	NC	NC
25.05	740.	20.2	11.7	2873.	1.00	0.	0.	ND	NC	170.	NC	NC
25.20	753.	20.2	11.5	2837.	1.00	0.	0.	ND	NC	173.	NC	NC
25.35	767.	20.0	11.3	2784.	1.00	0.	0.	ND	NC	176.	NC	NC
25.50	760.	21.8	11.4	2793.	1.00	0.	0.	ND	NC	175.	NC	NC
25.65	768.	21.8	11.4	2801.	1.00	0.	0.	ND	NC	177.	NC	NC
25.80	778.	21.1	11.6	2853.	1.00	0.	0.	ND	NC	179.	NC	NC
25.95	799.	20.7	11.8	2906.	1.00	0.	0.	ND	NC	184.	NC	NC
26.10	794.	20.8	10.8	2658.	1.10	5.8	338.	ND	NC	183.	NC	NC
26.25	803.	20.7	10.0	2449.	1.21	12.3	660.	ND	NC	185.	NC	NC
26.40	837.	20.4	10.2	2512.	1.22	13.0	712.	ND	NC	192.	NC	NC
26.55	855.	19.6	10.2	2509.	1.15	8.9	489.	ND	NC	197.	NC	NC
26.70	866.	20.3	9.1	2246.	1.23	13.7	675.	ND	NC	199.	NC	NC
26.85	904.	22.7	8.8	2162.	1.32	18.6	877.	ND	NC	208.	NC	NC
27.00	980.	25.0	9.3	2285.	1.25	14.6	730.	ND	NC	225.	NC	NC
27.15	970.	28.4	10.3	2537.	1.20	11.9	657.	ND	NC	223.	NC	NC
27.30	1080.	35.9	8.3	2034.	1.29	16.9	751.	ND	NC	248.	NC	NC
27.45	1217.	36.6	8.2	2029.	1.29	17.1	760.	ND	NC	280.	NC	NC
27.60	1232.	35.9	11.4	2812.	1.21	12.5	768.	ND	NC	283.	NC	NC
27.75	1224.	36.6	10.1	2489.	1.22	12.9	702.	ND	NC	282.	NC	NC
27.90	1215.	39.3	8.6	2123.	1.36	21.0	973.	ND	NC	279.	NC	NC
28.05	1223.	37.5	10.4	2545.	1.30	17.5	972.	ND	NC	281.	NC	NC
28.20	1220.	34.9	10.9	2673.	1.13	7.8	457.	ND	NC	281.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1220.	34.4	10.4	2565.	1.30	17.7	994.	ND	NC	281.	NC	NC
28.50	1205.	32.7	10.9	2686.	1.26	15.2	894.	ND	NC	277.	NC	NC
28.65	1199.	31.1	12.1	2981.	1.12	7.1	461.	ND	NC	276.	NC	NC
28.80	1241.	32.4	10.6	2615.	1.03	1.7	95.	ND	NC	285.	NC	NC
28.95	1257.	29.2	11.0	2697.	1.02	1.1	55.	ND	NC	289.	NC	NC
29.10	1253.	26.0	12.2	2992.	1.04	2.5	165.	ND	NC	288.	NC	NC
29.25	1290.	27.3	11.7	2879.	1.01	0.4	24.	ND	NC	297.	NC	NC
29.40	1279.	26.6	11.0	2711.	1.00	0.	0.	ND	NC	294.	NC	NC
29.55	1219.	26.5	12.4	3057.	1.00	0.	0.	ND	NC	280.	NC	NC
29.70	1208.	27.5	12.6	3103.	1.00	0.	0.	ND	NC	279.	NC	NC
29.85	1213.	31.1	12.2	2993.	1.00	0.	0.	ND	NC	279.	NC	NC
30.00	1217.	31.0	12.1	2978.	1.03	1.6	102.	ND	NC	280.	NC	NC
30.15	1194.	30.2	13.8	3394.	1.03	2.0	147.	ND	NC	275.	NC	NC
30.30	1205.	31.9	14.2	3485.	1.00	0.	0.	ND	NC	277.	NC	NC
30.45	1228.	32.8	11.3	2789.	1.00	0.	0.	ND	NC	282.	NC	NC
30.60	1229.	31.1	12.8	3156.	1.00	0.	0.	ND	NC	281.	NC	NC
30.75	1168.	31.1	13.2	3237.	1.00	0.	0.	ND	NC	269.	NC	NC
30.90	1154.	32.0	12.1	2969.	1.04	2.4	157.	ND	NC	265.	NC	NC
31.05	1164.	31.7	12.1	2967.	1.01	0.7	47.	ND	NC	268.	NC	NC
31.20	1187.	30.3	12.7	3115.	1.02	1.1	73.	ND	NC	273.	NC	NC
31.35	1200.	29.3	12.5	3070.	1.03	2.0	131.	ND	NC	276.	NC	NC
31.50	1204.	28.4	12.0	2951.	1.02	1.1	74.	ND	NC	277.	NC	NC
31.65	1219.	26.8	12.3	3017.	1.02	1.0	66.	ND	NC	280.	NC	NC
31.80	1230.	25.7	12.7	3133.	1.06	3.7	255.	ND	NC	283.	NC	NC
31.95	1251.	25.3	12.5	3065.	1.07	4.2	280.	ND	NC	288.	NC	NC
32.10	1249.	25.3	12.5	3074.	1.01	0.8	54.	ND	NC	287.	NC	NC
32.25	1229.	25.5	12.9	3181.	1.06	3.7	256.	ND	NC	283.	NC	NC
32.40	1212.	27.8	13.3	3273.	1.07	4.0	286.	ND	NC	279.	NC	NC
32.55	1213.	30.8	13.3	3266.	1.03	2.0	145.	ND	NC	279.	NC	NC
32.70	1222.	31.8	13.0	3188.	1.08	4.7	330.	ND	NC	281.	NC	NC
32.85	1220.	30.6	13.2	3242.	1.06	3.4	240.	ND	NC	281.	NC	NC
33.00	1208.	30.9	13.3	3266.	1.02	1.2	83.	ND	NC	278.	NC	NC
33.15	1206.	31.8	12.7	3114.	1.02	1.1	76.	ND	NC	277.	NC	NC
33.30	1181.	31.5	12.9	3161.	1.07	4.0	275.	ND	NC	272.	NC	NC
33.45	1166.	30.6	12.7	3124.	1.02	1.2	80.	ND	NC	268.	NC	NC
33.60	1178.	31.6	12.2	3009.	1.06	3.5	231.	ND	NC	271.	NC	NC
33.75	1187.	31.5	12.3	3014.	1.04	2.6	169.	ND	NC	273.	NC	NC
33.90	1192.	30.1	12.6	3096.	1.03	1.5	101.	ND	NC	274.	NC	NC
34.05	1199.	29.4	12.8	3151.	1.06	3.2	223.	ND	NC	276.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1206.	28.5	12.1	2987.	1.02	1.0	64.	ND	NC	277.	NC	NC
34.35	1219.	26.8	12.6	3098.	1.01	0.9	59.	ND	NC	280.	NC	NC
34.50	1231.	25.1	13.1	3213.	1.04	2.1	148.	ND	NC	283.	NC	NC
34.65	1252.	24.1	12.7	3112.	1.03	1.8	120.	ND	NC	288.	NC	NC
34.80	1251.	25.0	12.5	3072.	1.01	0.4	27.	ND	NC	288.	NC	NC
34.95	1226.	24.8	12.6	3107.	1.03	1.5	104.	ND	NC	282.	NC	NC
35.10	1215.	26.7	12.5	3078.	1.04	2.1	139.	ND	NC	279.	NC	NC
35.25	1230.	29.3	12.1	2971.	1.02	1.0	67.	ND	NC	283.	NC	NC
35.40	1214.	31.0	12.1	2972.	1.02	1.1	73.	ND	NC	279.	NC	NC
35.55	1195.	29.7	12.8	3140.	1.02	1.3	92.	ND	NC	276.	NC	NC
35.70	1204.	30.7	13.5	3328.	1.00	0.	0.	ND	NC	277.	NC	NC
35.85	1197.	31.5	12.2	2989.	1.00	0.	0.	ND	NC	275.	NC	NC
36.00	1185.	30.3	12.7	3132.	1.03	1.9	132.	ND	NC	273.	NC	NC
36.15	1184.	30.4	12.7	3123.	1.01	0.9	59.	ND	NC	272.	NC	NC
36.30	1180.	30.6	12.4	3053.	1.05	2.7	177.	ND	NC	271.	NC	NC
36.45	1175.	30.6	12.4	3058.	1.04	2.2	147.	ND	NC	270.	NC	NC
36.60	1176.	29.9	12.6	3093.	1.03	1.5	100.	ND	NC	271.	NC	NC
36.75	1192.	29.2	12.5	3076.	1.06	3.7	246.	ND	NC	274.	NC	NC
36.90	1190.	28.5	12.1	2968.	1.03	1.9	122.	ND	NC	274.	NC	NC
37.05	1211.	26.2	12.3	3036.	1.04	2.2	145.	ND	NC	279.	NC	NC
37.20	1224.	25.0	12.9	3172.	1.08	4.7	326.	ND	NC	282.	NC	NC
37.35	1263.	24.4	12.7	3113.	1.08	4.9	334.	ND	NC	290.	NC	NC
37.50	1252.	24.7	13.1	3232.	1.03	1.5	108.	ND	NC	288.	NC	NC
37.65	1236.	25.7	13.1	3211.	1.09	5.2	364.	ND	NC	284.	NC	NC
37.80	1222.	27.2	13.2	3239.	1.06	3.6	256.	ND	NC	281.	NC	NC
37.95	1204.	29.1	12.9	3180.	1.05	2.9	204.	ND	NC	277.	NC	NC
38.10	1212.	31.5	13.1	3213.	1.08	4.4	310.	ND	NC	279.	NC	NC
38.25	1206.	31.3	12.9	3180.	1.06	3.8	265.	ND	NC	277.	NC	NC
38.40	1211.	31.6	12.7	3130.	1.07	3.8	263.	ND	NC	279.	NC	NC
38.55	1224.	31.4	12.9	3161.	1.09	5.4	370.	ND	NC	281.	NC	NC
38.70	1206.	31.0	12.7	3115.	1.08	4.7	318.	ND	NC	277.	NC	NC
38.85	1175.	30.8	12.3	3022.	1.04	2.4	156.	ND	NC	270.	NC	NC
39.00	1175.	31.2	12.1	2967.	1.08	4.9	321.	ND	NC	270.	NC	NC
39.15	1178.	31.4	12.0	2955.	1.06	3.7	239.	ND	NC	271.	NC	NC
39.30	1184.	30.9	12.1	2969.	1.04	2.3	150.	ND	NC	272.	NC	NC
39.45	1206.	31.0	11.5	2823.	1.04	2.2	137.	ND	NC	277.	NC	NC
39.60	1225.	28.3	11.3	2776.	1.03	1.6	96.	ND	NC	282.	NC	NC
39.75	1214.	25.9	11.9	2929.	1.03	1.6	100.	ND	NC	279.	NC	NC
39.90	1234.	24.4	12.2	3002.	1.04	2.4	160.	ND	NC	284.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1277.	24.8	11.0	2697.	1.00	0.	0.	ND	NC	294.	NC	NC
40.20	1261.	25.1	11.9	2920.	1.00	0.	0.	ND	NC	290.	NC	NC
40.35	1235.	25.9	12.4	3043.	1.01	0.7	44.	ND	NC	284.	NC	NC
40.50	1225.	27.6	12.9	3165.	1.00	0.	0.	ND	NC	282.	NC	NC
40.65	1220.	29.6	13.3	3278.	1.01	0.3	25.	ND	NC	281.	NC	NC
40.80	1216.	30.1	13.6	3344.	1.00	0.	0.	ND	NC	280.	NC	NC
40.95	1233.	30.2	13.7	3364.	1.00	0.	0.	ND	NC	284.	NC	NC
41.10	1218.	30.7	13.3	3270.	1.00	0.	0.	ND	NC	280.	NC	NC
41.25	1214.	30.9	13.6	3335.	1.00	0.	0.	ND	NC	279.	NC	NC
41.40	1211.	30.3	13.9	3413.	1.00	0.	0.	ND	NC	279.	NC	NC
41.55	1165.	30.2	13.3	3279.	1.00	0.	0.	ND	NC	268.	NC	NC
41.70	1170.	30.8	12.9	3164.	1.00	0.	0.	ND	NC	269.	NC	NC
41.85	1178.	30.6	13.0	3191.	1.00	0.	0.	ND	NC	271.	NC	NC
42.00	1186.	30.0	13.2	3253.	1.00	0.	0.	ND	NC	273.	NC	NC
42.15	1201.	28.5	12.8	3143.	1.00	0.	0.	ND	NC	276.	NC	NC
42.30	1212.	27.0	13.0	3198.	1.00	0.	0.	ND	NC	279.	NC	NC
42.45	1215.	26.0	13.2	3252.	1.00	0.	0.	ND	NC	280.	NC	NC
42.60	1220.	24.0	13.4	3303.	1.00	0.	0.	ND	NC	281.	NC	NC
42.75	1253.	24.3	12.8	3158.	1.00	0.	0.	ND	NC	288.	NC	NC
42.90	1044.	22.7	13.0	3194.	1.00	0.	0.	ND	NC	240.	NC	NC
43.05	893.	21.1	12.6	3107.	1.00	0.	0.	ND	NC	205.	NC	NC
43.20	799.	20.4	11.8	2905.	1.00	0.	0.	ND	NC	184.	NC	NC
43.35	772.	19.9	11.3	2774.	1.00	0.	0.	ND	NC	177.	NC	NC
43.50	768.	20.4	10.9	2692.	1.00	0.	0.	ND	NC	177.	NC	NC
43.65	747.	20.1	10.9	2680.	1.00	0.	0.	ND	NC	172.	NC	NC
43.80	747.	20.4	11.1	2728.	1.00	0.	0.	ND	NC	172.	NC	NC
43.95	751.	19.9	11.2	2766.	1.00	0.	0.	ND	NC	173.	NC	NC
44.10	745.	20.0	11.1	2731.	1.00	0.	0.	ND	NC	171.	NC	NC
44.25	748.	20.6	11.0	2712.	1.00	0.	0.	ND	NC	172.	NC	NC
44.40	754.	20.1	10.9	2689.	1.00	0.	0.	ND	NC	173.	NC	NC
44.55	761.	19.7	11.0	2708.	1.00	0.	0.	ND	NC	175.	NC	NC
44.70	769.	19.2	11.1	2732.	1.00	0.	0.	ND	NC	177.	NC	NC
44.85	779.	18.4	11.1	2737.	1.00	0.	0.	ND	NC	179.	NC	NC
45.00	764.	17.7	11.1	2718.	1.00	0.	0.	ND	NC	176.	NC	NC
45.15	759.	17.3	11.3	2767.	1.00	0.	0.	ND	NC	175.	NC	NC
45.30	771.	15.6	11.3	2782.	1.00	0.	0.	ND	NC	177.	NC	NC
45.45	775.	16.1	10.9	2685.	1.00	0.	0.	ND	NC	178.	NC	NC
45.60	765.	16.2	11.2	2763.	1.00	0.	0.	ND	NC	176.	NC	NC
45.75	771.	17.0	11.2	2763.	1.00	0.	0.	ND	NC	177.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 9 18 78
RUN NUMBER- 28
SEGMENT NUMBER- 2
WATER DEPTH- 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.60
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1069.	29.8	11.8	2901.	1.01	0.9	54.	ND	NC	246.	NC	NC
0.15	1072.	29.6	11.8	2903.	1.01	0.4	24.	ND	NC	247.	NC	NC
0.30	1080.	28.4	12.5	3064.	1.00	0.	0.	ND	NC	248.	NC	NC
0.45	1091.	27.1	13.0	3194.	1.00	0.	0.	ND	NC	251.	NC	NC
0.60	1103.	26.1	12.1	2974.	1.00	0.	0.	ND	NC	254.	NC	NC
0.75	1109.	24.9	12.2	3006.	1.00	0.	0.	ND	NC	255.	NC	NC
0.90	1123.	24.0	12.5	3078.	1.00	0.	0.	ND	NC	258.	NC	NC
1.05	1137.	23.8	12.6	3102.	1.00	0.	0.	ND	NC	261.	NC	NC
1.20	1135.	22.6	12.3	3020.	1.03	1.7	112.	ND	NC	261.	NC	NC
1.35	1115.	23.4	12.4	3058.	1.00	0.	0.	ND	NC	256.	NC	NC
1.50	1095.	26.1	12.8	3158.	1.00	0.	0.	ND	NC	252.	NC	NC
1.65	1095.	28.8	12.7	3134.	1.03	1.6	113.	ND	NC	252.	NC	NC
1.80	941.	26.0	12.6	3092.	1.05	2.9	195.	ND	NC	216.	NC	NC
1.95	801.	23.2	12.4	3044.	1.01	0.5	31.	ND	NC	184.	NC	NC
2.10	637.	20.2	11.2	2763.	1.00	0.	0.	ND	NC	146.	NC	NC
2.25	622.	18.3	10.1	2495.	1.00	0.	0.	ND	NC	143.	NC	NC
2.40	615.	17.5	10.0	2455.	1.00	0.	0.	ND	NC	142.	NC	NC
2.55	603.	16.7	10.1	2483.	1.00	0.	0.	ND	NC	139.	NC	NC
2.70	609.	16.7	10.1	2489.	1.00	0.	0.	ND	NC	143.	NC	NC
2.85	615.	16.4	10.0	2471.	1.00	0.	0.	ND	NC	141.	NC	NC
3.00	615.	16.1	10.3	2521.	1.00	0.	0.	ND	NC	141.	NC	NC
3.15	631.	15.8	10.4	2567.	1.00	0.	0.	ND	NC	145.	NC	NC
3.30	636.	15.3	10.4	2568.	1.00	0.	0.	ND	NC	146.	NC	NC
3.45	635.	14.6	10.5	2594.	1.00	0.	0.	ND	NC	146.	NC	NC
3.60	637.	14.2	10.6	2607.	1.00	0.	0.	ND	NC	147.	NC	NC
3.75	639.	13.7	10.6	2615.	1.00	0.	0.	ND	NC	147.	NC	NC
3.90	625.	13.3	10.7	2625.	1.00	0.	0.	ND	NC	144.	NC	NC
4.05	611.	14.2	10.7	2636.	1.00	0.	0.	ND	NC	141.	NC	NC
4.20	608.	15.4	10.8	2645.	1.00	0.	0.	ND	NC	140.	NC	NC
4.35	614.	16.7	10.8	2659.	1.00	0.	0.	ND	NC	141.	NC	NC
4.50	609.	16.9	10.9	2687.	1.00	0.	0.	ND	NC	140.	NC	NC
4.65	609.	16.5	11.0	2695.	1.00	0.	0.	ND	NC	140.	NC	NC
4.80	616.	17.0	10.8	2664.	1.00	0.	0.	ND	NC	142.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	609.	17.1	10.7	2626.	1.00	0.	0.	ND	NC	140.	NC	NC
5.10	601.	16.4	10.7	2623.	1.00	0.	0.	ND	NC	138.	NC	NC
5.25	606.	15.9	10.7	2624.	1.00	0.	0.	ND	NC	139.	NC	NC
5.40	613.	16.3	10.6	2600.	1.00	0.	0.	ND	NC	141.	NC	NC
5.55	609.	16.6	10.5	2582.	1.00	0.	0.	ND	NC	140.	NC	NC
5.70	611.	16.6	10.7	2628.	1.00	0.	0.	ND	NC	140.	NC	NC
5.85	624.	16.2	10.8	2648.	1.00	0.	0.	ND	NC	143.	NC	NC
6.00	627.	15.7	10.8	2651.	1.00	0.	0.	ND	NC	144.	NC	NC
6.15	633.	14.7	10.9	2683.	1.00	0.	0.	ND	NC	146.	NC	NC
6.30	636.	14.0	10.8	2660.	1.00	0.	0.	ND	NC	146.	NC	NC
6.45	635.	13.7	10.6	2619.	1.00	0.	0.	ND	NC	147.	NC	NC
6.60	638.	13.4	10.8	2664.	1.00	0.	0.	ND	NC	147.	NC	NC
6.75	609.	13.8	10.9	2693.	1.00	0.	0.	ND	NC	140.	NC	NC
6.90	605.	14.5	10.8	2665.	1.00	0.	0.	ND	NC	139.	NC	NC
7.05	608.	16.2	10.8	2657.	1.00	0.	0.	ND	NC	140.	NC	NC
7.20	617.	16.6	10.9	2692.	1.00	0.	0.	ND	NC	142.	NC	NC
7.35	604.	17.0	11.0	2694.	1.00	0.	0.	ND	NC	138.	NC	NC
7.50	612.	17.3	11.1	2732.	1.00	0.	0.	ND	NC	141.	NC	NC
7.65	600.	17.4	11.0	2698.	1.00	0.	0.	ND	NC	138.	NC	NC
7.80	606.	17.4	10.9	2681.	1.00	0.	0.	ND	NC	139.	NC	NC
7.95	598.	16.8	10.8	2649.	1.00	0.	0.	ND	NC	138.	NC	NC
8.10	594.	17.0	10.6	2603.	1.00	0.	0.	ND	NC	137.	NC	NC
8.25	596.	17.2	10.6	2597.	1.00	0.	0.	ND	NC	137.	NC	NC
8.40	607.	17.2	10.6	2600.	1.00	0.	0.	ND	NC	139.	NC	NC
8.55	631.	16.5	10.6	2617.	1.00	0.	0.	ND	NC	145.	NC	NC
8.70	633.	16.3	10.5	2583.	1.00	0.	0.	ND	NC	146.	NC	NC
8.85	635.	15.3	10.5	2577.	1.00	0.	0.	ND	NC	146.	NC	NC
9.00	636.	13.5	10.7	2622.	1.00	0.	0.	ND	NC	146.	NC	NC
9.15	633.	12.7	10.6	2608.	1.00	0.	0.	ND	NC	146.	NC	NC
9.30	633.	12.9	10.7	2636.	1.00	0.	0.	ND	NC	146.	NC	NC
9.45	623.	13.8	10.8	2659.	1.00	0.	0.	ND	NC	143.	NC	NC
9.60	613.	14.7	10.8	2644.	1.00	0.	0.	ND	NC	141.	NC	NC
9.75	610.	15.7	10.8	2652.	1.00	0.	0.	ND	NC	140.	NC	NC
9.90	604.	16.0	10.9	2689.	1.00	0.	0.	ND	NC	139.	NC	NC
10.05	620.	16.4	11.0	2700.	1.00	0.	0.	ND	NC	143.	NC	NC
10.20	626.	16.6	11.0	2701.	1.00	0.	0.	ND	NC	144.	NC	NC
10.35	616.	16.8	11.0	2701.	1.00	0.	0.	ND	NC	142.	NC	NC
10.50	613.	17.0	11.0	2702.	1.00	0.	0.	ND	NC	141.	NC	NC
10.65	611.	16.7	10.8	2665.	1.00	0.	0.	ND	NC	141.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	601.	16.8	10.7	2636.	1.00	0.	0.	ND	NC	138.	NC	NC
10.95	614.	17.0	10.6	2608.	1.00	0.	0.	ND	NC	139.	NC	NC
11.10	619.	17.0	10.6	2603.	1.00	0.	0.	ND	NC	142.	NC	NC
11.25	631.	16.6	10.7	2622.	1.00	0.	0.	ND	NC	145.	NC	NC
11.40	638.	15.3	10.6	2617.	1.00	0.	0.	ND	NC	147.	NC	NC
11.55	638.	14.7	10.5	2594.	1.00	0.	0.	ND	NC	147.	NC	NC
11.70	638.	14.5	10.6	2619.	1.00	0.	0.	ND	NC	147.	NC	NC
11.85	649.	14.2	10.7	2620.	1.00	0.	0.	ND	NC	149.	NC	NC
12.00	650.	11.9	10.8	2663.	1.00	0.	0.	ND	NC	149.	NC	NC
12.15	639.	12.8	10.8	2650.	1.00	0.	0.	ND	NC	147.	NC	NC
12.30	625.	13.8	10.7	2622.	1.00	0.	0.	ND	NC	144.	NC	NC
12.45	618.	14.3	10.7	2635.	1.00	0.	0.	ND	NC	142.	NC	NC
12.60	625.	15.1	10.9	2677.	1.00	0.	0.	ND	NC	144.	NC	NC
12.75	639.	16.1	10.9	2682.	1.00	0.	0.	ND	NC	147.	NC	NC
12.90	639.	16.7	10.9	2685.	1.00	0.	0.	ND	NC	147.	NC	NC
13.05	630.	17.3	11.2	2766.	1.00	0.	0.	ND	NC	145.	NC	NC
13.20	654.	17.9	11.1	2726.	1.00	0.	0.	ND	NC	150.	NC	NC
13.35	671.	18.5	11.0	2695.	1.00	0.	0.	ND	NC	154.	NC	NC
13.50	679.	19.3	10.8	2668.	1.00	0.	0.	ND	NC	156.	NC	NC
13.65	717.	20.2	10.7	2626.	1.00	0.	0.	ND	NC	165.	NC	NC
13.80	732.	21.0	10.7	2633.	1.00	0.	0.	ND	NC	168.	NC	NC
13.95	745.	20.8	11.1	2736.	1.00	0.	0.	ND	NC	171.	NC	NC
14.10	763.	21.0	11.0	2693.	1.00	0.	0.	ND	NC	175.	NC	NC
14.25	851.	21.7	11.4	2814.	1.00	0.	0.	ND	NC	196.	NC	NC
14.40	884.	21.3	12.1	2978.	1.00	0.	0.	ND	NC	203.	NC	NC
14.55	894.	20.1	12.2	2992.	1.00	0.	0.	ND	NC	206.	NC	NC
14.70	901.	19.4	12.1	2986.	1.00	0.	0.	ND	NC	207.	NC	NC
14.85	883.	19.4	12.1	2968.	1.00	0.	0.	ND	NC	203.	NC	NC
15.00	867.	19.7	12.0	2943.	1.00	0.	0.	ND	NC	199.	NC	NC
15.15	862.	20.4	11.9	2923.	1.00	0.	0.	ND	NC	198.	NC	NC
15.30	862.	20.9	11.9	2917.	1.00	0.	0.	ND	NC	198.	NC	NC
15.45	885.	23.0	11.8	2902.	1.00	0.	0.	ND	NC	204.	NC	NC
15.60	888.	25.5	12.0	2952.	1.01	0.3	21.	ND	NC	204.	NC	NC
15.75	874.	25.2	10.9	2675.	1.02	1.3	77.	ND	NC	201.	NC	NC
15.90	872.	24.3	11.3	2770.	1.09	5.5	333.	ND	NC	201.	NC	NC
16.05	851.	24.3	11.6	2864.	1.01	0.5	31.	ND	NC	196.	NC	NC
16.20	847.	25.5	10.2	2506.	1.06	3.8	206.	ND	NC	195.	NC	NC
16.35	919.	25.7	9.9	2437.	1.25	14.7	781.	ND	NC	211.	NC	NC
16.50	964.	26.0	10.2	2515.	1.09	5.3	291.	ND	NC	222.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	960.	28.3	11.2	2760.	1.01	0.6	39.	ND	NC	221.	NC	NC
16.80	1016.	31.1	9.7	2129.	1.01	0.7	32.	ND	NC	234.	NC	NC
16.95	1039.	25.9	8.8	2172.	1.01	0.6	27.	ND	NC	239.	NC	NC
17.10	1025.	24.1	11.5	2834.	1.00	0.	0.	ND	NC	236.	NC	NC
17.25	1034.	24.4	11.1	2725.	1.00	0.	0.	ND	NC	238.	NC	NC
17.40	1081.	23.3	9.5	2348.	1.17	11.2	574.	ND	NC	249.	NC	NC
17.55	1077.	22.1	10.4	2554.	1.02	0.9	50.	ND	NC	248.	NC	NC
17.70	1081.	23.1	11.5	2828.	1.01	0.7	45.	ND	NC	249.	NC	NC
17.85	1092.	25.6	11.1	2722.	1.13	7.4	440.	ND	NC	251.	NC	NC
18.00	1088.	27.6	10.3	2521.	1.09	5.2	284.	ND	NC	250.	NC	NC
18.15	1110.	28.1	12.3	3020.	1.03	1.6	108.	ND	NC	255.	NC	NC
18.30	1098.	30.4	11.6	2846.	1.08	4.6	286.	ND	NC	253.	NC	NC
18.45	1091.	31.3	9.6	2351.	1.10	5.8	299.	ND	NC	251.	NC	NC
18.60	1090.	30.2	10.6	2609.	1.06	3.7	213.	ND	NC	251.	NC	NC
18.75	1059.	30.1	12.8	3150.	1.01	0.5	35.	ND	NC	244.	NC	NC
18.90	1053.	33.3	8.0	1970.	1.00	0.	0.	ND	NC	242.	NC	NC
19.05	1071.	33.4	8.6	2115.	1.05	2.9	134.	ND	NC	246.	NC	NC
19.20	1081.	29.5	10.9	2687.	1.01	0.8	55.	ND	NC	249.	NC	NC
19.35	1070.	30.1	11.4	2797.	1.02	1.0	62.	ND	NC	246.	NC	NC
19.50	1108.	30.8	9.9	2442.	1.15	8.8	469.	ND	NC	255.	NC	NC
19.65	1125.	28.4	10.2	2497.	1.19	11.4	623.	ND	NC	259.	NC	NC
19.80	1120.	27.0	11.4	2801.	1.07	4.4	267.	ND	NC	258.	NC	NC
19.95	1135.	27.0	10.8	2662.	1.13	7.6	440.	ND	NC	261.	NC	NC
20.10	1166.	25.5	9.9	2423.	1.23	13.6	718.	ND	NC	268.	NC	NC
20.25	1165.	22.8	10.9	2689.	1.14	8.2	482.	ND	NC	268.	NC	NC
20.40	1133.	24.1	11.2	2757.	1.17	9.7	586.	ND	NC	261.	NC	NC
20.55	1119.	27.7	9.1	2249.	1.10	6.1	300.	ND	NC	257.	NC	NC
20.70	1130.	30.2	7.4	1831.	1.01	0.9	34.	ND	NC	260.	NC	NC
20.85	1130.	29.9	10.8	2665.	1.01	0.7	43.	ND	NC	260.	NC	NC
21.00	1109.	33.9	10.7	2637.	1.00	0.	0.	ND	NC	255.	NC	NC
21.15	1110.	35.9	7.2	1766.	1.00	0.	0.	ND	NC	255.	NC	NC
21.30	1108.	34.9	9.0	2213.	1.01	0.7	34.	ND	NC	255.	NC	NC
21.45	1092.	29.3	11.1	2741.	1.01	0.8	47.	ND	NC	251.	NC	NC
21.60	1076.	30.7	10.0	2468.	1.09	5.4	290.	ND	NC	248.	NC	NC
21.75	1076.	31.1	9.8	2421.	1.26	15.3	810.	ND	NC	248.	NC	NC
21.90	1080.	29.7	10.2	2510.	1.21	12.3	672.	ND	NC	248.	NC	NC
22.05	1246.	32.5	10.2	2517.	1.16	9.6	528.	ND	NC	286.	NC	NC
22.20	1337.	36.7	10.2	2508.	1.25	14.7	804.	ND	NC	308.	NC	NC
22.35	1353.	33.5	10.8	2645.	1.23	13.4	774.	ND	NC	311.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1355.	31.2	12.4	3053.	1.10	5.8	387.	ND	NC	312.	NC	NC
22.65	1391.	31.6	12.4	3061.	1.11	6.5	434.	ND	NC	320.	NC	NC
22.80	1445.	31.9	10.9	2674.	1.07	4.1	241.	ND	NC	332.	NC	NC
22.95	1427.	27.5	11.7	2882.	1.08	4.8	300.	ND	NC	328.	NC	NC
23.10	1400.	27.3	11.9	2938.	1.08	4.5	289.	ND	NC	322.	NC	NC
23.25	1405.	29.6	11.0	2705.	1.04	2.3	134.	ND	NC	323.	NC	NC
23.40	1412.	31.6	9.3	2450.	1.01	0.3	15.	ND	NC	325.	NC	NC
23.55	1389.	34.2	11.7	2871.	1.07	4.2	261.	ND	NC	319.	NC	NC
23.70	1364.	38.4	9.6	2363.	1.19	11.4	590.	ND	NC	314.	NC	NC
23.85	1386.	37.8	9.5	2333.	1.25	15.0	764.	ND	NC	319.	NC	NC
24.00	1374.	34.7	11.7	2875.	1.14	7.9	499.	ND	NC	316.	NC	NC
24.15	1329.	36.9	11.4	2814.	1.22	13.2	811.	ND	NC	306.	NC	NC
24.30	1339.	39.5	9.1	2249.	1.31	18.3	901.	ND	NC	308.	NC	NC
24.45	1342.	39.6	9.9	2431.	1.26	15.5	823.	ND	NC	309.	NC	NC
24.60	1310.	36.4	11.1	2727.	1.25	14.6	870.	ND	NC	301.	NC	NC
24.75	1316.	38.6	10.1	2483.	1.29	17.3	938.	ND	NC	303.	NC	NC
24.90	1385.	41.4	8.6	2114.	1.33	19.3	893.	ND	NC	319.	NC	NC
25.05	1359.	37.0	10.0	2449.	1.25	15.0	800.	ND	NC	312.	NC	NC
25.20	1362.	34.7	11.5	2823.	1.26	15.0	928.	ND	NC	313.	NC	NC
25.35	1398.	34.8	9.9	2429.	1.32	18.7	994.	ND	NC	321.	NC	NC
25.50	1486.	36.1	8.8	2168.	1.29	17.1	812.	ND	NC	342.	NC	NC
25.65	1449.	30.4	11.1	2739.	1.21	12.6	753.	ND	NC	333.	NC	NC
25.80	1420.	30.1	10.2	2497.	1.30	17.8	969.	ND	NC	327.	NC	NC
25.95	1430.	34.6	9.0	2223.	1.31	18.5	899.	ND	NC	329.	NC	NC
26.10	1450.	34.1	8.9	2183.	1.26	15.2	723.	ND	NC	333.	NC	NC
26.25	1372.	34.9	11.9	2917.	1.26	15.2	971.	ND	NC	316.	NC	NC
26.40	1364.	39.2	9.4	2304.	1.30	17.7	889.	ND	NC	314.	NC	NC
26.55	1402.	38.0	9.9	2437.	1.26	15.2	809.	ND	NC	322.	NC	NC
26.70	1384.	34.3	12.1	2973.	1.18	10.4	678.	ND	NC	318.	NC	NC
26.85	1347.	36.4	10.7	2630.	1.24	14.1	810.	ND	NC	310.	NC	NC
27.00	1346.	36.7	11.2	2760.	1.30	17.5	1055.	ND	NC	310.	NC	NC
27.15	1333.	34.4	11.8	2892.	1.10	5.8	369.	ND	NC	307.	NC	NC
27.30	1320.	33.8	11.8	2891.	1.12	7.2	452.	ND	NC	304.	NC	NC
27.45	1335.	36.0	10.3	2542.	1.29	17.2	958.	ND	NC	307.	NC	NC
27.60	1318.	34.6	10.1	2495.	1.17	10.0	545.	ND	NC	303.	NC	NC
27.75	1328.	32.6	11.9	2936.	1.12	7.1	452.	ND	NC	305.	NC	NC
27.90	1381.	32.8	11.4	2797.	1.19	11.5	700.	ND	NC	318.	NC	NC
28.05	1422.	32.2	9.9	2436.	1.30	17.6	937.	ND	NC	327.	NC	NC
28.20	1450.	29.8	11.9	2923.	1.14	8.5	540.	ND	NC	333.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1424.	28.1	12.3	3023.	1.15	8.8	584.	ND	NC	327.	NC	NC
28.50	1419.	29.4	10.4	2563.	1.27	16.1	899.	ND	NC	326.	NC	NC
28.65	1410.	30.9	11.1	2742.	1.15	8.8	529.	ND	NC	324.	NC	NC
28.80	1378.	30.0	13.1	3217.	1.11	6.7	474.	ND	NC	317.	NC	NC
28.95	1358.	34.4	11.9	2932.	1.19	11.3	726.	ND	NC	312.	NC	NC
29.10	1355.	37.2	10.4	2556.	1.20	11.6	647.	ND	NC	312.	NC	NC
29.25	1355.	35.5	12.1	2972.	1.15	8.9	575.	ND	NC	312.	NC	NC
29.40	1347.	35.9	11.7	2877.	1.17	10.0	630.	ND	NC	310.	NC	NC
29.55	1340.	37.0	9.0	2204.	1.29	16.9	816.	ND	NC	308.	NC	NC
29.70	1342.	37.3	11.2	2745.	1.30	17.7	1062.	ND	NC	309.	NC	NC
29.85	1334.	36.7	10.5	2587.	1.26	15.2	857.	ND	NC	307.	NC	NC
30.00	1304.	38.8	9.2	2262.	1.29	17.1	843.	ND	NC	300.	NC	NC
30.15	1342.	40.4	8.3	2044.	1.33	19.2	856.	ND	NC	309.	NC	NC
30.30	1356.	34.5	10.4	2568.	1.27	15.6	874.	ND	NC	312.	NC	NC
30.45	1356.	36.8	10.9	2687.	1.27	16.0	938.	ND	NC	312.	NC	NC
30.60	1407.	36.0	10.5	2580.	1.30	17.4	981.	ND	NC	323.	NC	NC
30.75	1421.	30.9	10.3	2542.	1.29	16.8	934.	ND	NC	327.	NC	NC
30.90	1412.	28.0	11.9	2935.	1.18	10.8	695.	ND	NC	325.	NC	NC
31.05	1447.	30.1	10.4	2562.	1.15	8.7	486.	ND	NC	333.	NC	NC
31.20	1456.	34.3	7.5	1833.	1.01	0.4	15.	ND	NC	335.	NC	NC
31.35	1430.	34.8	9.8	2408.	1.02	0.9	47.	ND	NC	329.	NC	NC
31.50	1397.	32.0	12.4	3044.	1.17	9.8	650.	ND	NC	321.	NC	NC
31.65	1365.	36.6	12.2	3001.	1.25	14.9	979.	ND	NC	314.	NC	NC
31.80	1370.	37.0	10.3	2537.	1.21	12.3	684.	ND	NC	315.	NC	NC
31.95	1373.	34.6	12.3	3022.	1.20	12.0	793.	ND	NC	316.	NC	NC
32.10	1357.	34.1	11.8	2913.	1.22	13.2	838.	ND	NC	312.	NC	NC
32.25	1360.	36.2	10.0	2452.	1.27	15.7	843.	ND	NC	313.	NC	NC
32.40	1346.	35.6	11.5	2823.	1.28	16.2	1000.	ND	NC	310.	NC	NC
32.55	1308.	34.3	11.6	2846.	1.24	13.9	867.	ND	NC	301.	NC	NC
32.70	1304.	35.4	10.8	2651.	1.26	15.3	886.	ND	NC	300.	NC	NC
32.85	1343.	37.2	10.0	2464.	1.31	18.0	970.	ND	NC	309.	NC	NC
33.00	1344.	33.5	11.5	2818.	1.25	14.7	904.	ND	NC	309.	NC	NC
33.15	1304.	31.8	11.8	2909.	1.25	14.5	922.	ND	NC	300.	NC	NC
33.30	1375.	33.0	10.9	2671.	1.29	17.2	1003.	ND	NC	316.	NC	NC
33.45	1437.	31.3	10.6	2607.	1.29	17.1	972.	ND	NC	330.	NC	NC
33.60	1438.	26.2	11.7	2877.	1.17	10.2	639.	ND	NC	331.	NC	NC
33.75	1415.	28.2	11.7	2873.	1.27	15.9	998.	ND	NC	325.	NC	NC
33.90	1404.	31.5	9.9	2426.	1.29	16.9	894.	ND	NC	323.	NC	NC
34.05	1409.	32.0	11.1	2736.	1.11	6.4	380.	ND	NC	324.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1378.	31.0	12.5	3062.	1.21	12.1	807.	ND	NC	317.	NC	NC
34.35	1369.	39.4	11.7	2866.	1.27	16.0	1090.	ND	NC	315.	NC	NC
34.50	1381.	39.8	10.0	2453.	1.19	11.4	608.	ND	NC	318.	NC	NC
34.65	1384.	35.7	12.1	2986.	1.10	5.7	371.	ND	NC	318.	NC	NC
34.80	1348.	34.4	12.0	2954.	1.18	10.5	679.	ND	NC	310.	NC	NC
34.95	1359.	37.8	8.9	2197.	1.26	15.3	733.	ND	NC	313.	NC	NC
35.10	1333.	35.0	11.0	2714.	1.24	14.1	837.	ND	NC	307.	NC	NC
35.25	1287.	34.2	11.7	2876.	1.16	9.5	597.	ND	NC	296.	NC	NC
35.40	1291.	34.4	10.7	2634.	1.23	13.7	788.	ND	NC	297.	NC	NC
35.55	1347.	36.7	9.9	2431.	1.32	19.1	1012.	ND	NC	310.	NC	NC
35.70	1332.	33.1	11.2	2763.	1.12	7.3	439.	ND	NC	306.	NC	NC
35.85	1317.	27.8	11.4	2793.	1.20	12.0	730.	ND	NC	303.	NC	NC
36.00	1428.	30.0	9.7	2389.	1.16	9.4	489.	ND	NC	328.	NC	NC
36.15	1490.	33.4	8.6	2126.	1.07	3.9	182.	ND	NC	343.	NC	NC
36.30	1459.	25.2	12.0	2948.	1.07	3.9	252.	ND	NC	335.	NC	NC
36.45	1377.	21.9	10.9	2674.	1.15	8.9	522.	ND	NC	317.	NC	NC
36.60	944.	23.0	5.2	1285.	1.01	0.3	9.	ND	NC	217.	NC	NC
36.75	641.	22.3	2.1	506.	1.00	0.	0.	ND	NC	148.	NC	NC
36.90	615.	23.5	0.9	233.	1.00	0.	0.	ND	NC	142.	NC	NC
37.05	629.	27.3	1.3	323.	1.00	0.	0.	ND	NC	145.	NC	NC
37.20	661.	24.2	3.2	778.	1.00	0.	0.	ND	NC	152.	NC	NC
37.35	651.	22.9	6.0	1475.	1.00	0.	0.	ND	NC	150.	NC	NC
37.50	653.	23.4	5.5	1344.	1.04	2.2	53.	ND	NC	153.	NC	NC
37.65	660.	22.7	3.8	924.	1.13	7.8	158.	ND	NC	152.	NC	NC
37.80	682.	20.6	8.1	2002.	1.10	6.1	256.	ND	NC	157.	NC	NC
37.95	684.	19.1	8.7	2146.	1.01	0.8	36.	ND	NC	157.	NC	NC
38.10	686.	18.7	6.2	1513.	1.20	12.0	398.	ND	NC	158.	NC	NC
38.25	697.	19.0	8.4	2061.	1.20	11.6	524.	ND	NC	160.	NC	NC
38.40	708.	17.9	9.1	2228.	1.11	6.6	324.	ND	NC	163.	NC	NC
38.55	717.	13.0	8.2	2017.	1.15	9.0	396.	ND	NC	165.	NC	NC
38.70	723.	16.1	6.3	1538.	1.13	7.8	261.	ND	NC	166.	NC	NC
38.85	627.	17.7	5.7	1407.	1.05	2.7	83.	ND	NC	144.	NC	NC
39.00	604.	16.7	4.2	1035.	1.01	0.3	7.	ND	NC	139.	NC	NC
39.15	560.	15.5	3.8	940.	1.00	0.	0.	ND	NC	129.	NC	NC
39.30	596.	18.2	5.4	1335.	1.00	0.	0.	ND	NC	137.	NC	NC
39.45	617.	17.3	6.7	1658.	1.00	0.	0.	ND	NC	142.	NC	NC
39.60	627.	16.5	6.5	1595.	1.00	0.	0.	ND	NC	144.	NC	NC
39.75	633.	15.9	6.4	1581.	1.00	0.	0.	ND	NC	146.	NC	NC
39.90	633.	18.3	5.5	1362.	1.00	0.	0.	ND	NC	146.	NC	NC

RUN NUMBER- 28
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	630.	19.5	4.5	1096.	1.00	0.	0.	ND	NC	145.	NC	NC
40.20	630.	15.4	6.5	1610.	1.00	0.	0.	ND	NC	145.	NC	NC
40.35	610.	15.5	7.1	1734.	1.00	0.	0.	ND	NC	140.	NC	NC
40.50	580.	17.4	4.5	1115.	1.00	0.	0.	ND	NC	133.	NC	NC
40.65	609.	13.6	8.5	2089.	1.00	0.	0.	ND	NC	140.	NC	NC
40.80	630.	12.9	8.5	2093.	1.00	0.	0.	ND	NC	145.	NC	NC
40.95	612.	15.2	6.5	1595.	1.00	0.	0.	ND	NC	141.	NC	NC
41.10	609.	18.6	6.0	1468.	1.00	0.	0.	ND	NC	140.	NC	NC
41.25	637.	10.5	8.0	1975.	1.00	0.	0.	ND	NC	146.	NC	NC
41.40	629.	8.5	8.6	2114.	1.00	0.	0.	ND	NC	145.	NC	NC
41.55	639.	11.7	4.5	1102.	1.00	0.	0.	ND	NC	147.	NC	NC
41.70	646.	12.4	7.7	1903.	1.00	0.	0.	ND	NC	149.	NC	NC
41.85	627.	12.7	9.6	2349.	1.02	1.0	50.	ND	NC	144.	NC	NC
42.00	614.	13.3	9.8	2407.	1.05	2.9	152.	ND	NC	141.	NC	NC
42.15	607.	14.0	11.2	2756.	1.03	1.7	103.	ND	NC	140.	NC	NC
42.30	618.	15.3	11.2	2756.	1.02	1.0	62.	ND	NC	142.	NC	NC
42.45	630.	15.9	10.9	2688.	1.03	1.9	112.	ND	NC	145.	NC	NC
42.60	621.	15.6	11.1	2733.	1.01	0.7	42.	ND	NC	143.	NC	NC
42.75	616.	15.6	11.3	2779.	1.01	0.3	20.	ND	NC	142.	NC	NC
42.90	618.	14.8	11.1	2723.	1.01	0.4	23.	ND	NC	142.	NC	NC
43.05	599.	15.4	11.0	2711.	1.00	0.	0.	ND	NC	138.	NC	NC
43.20	596.	14.9	11.4	2794.	1.00	0.	0.	ND	NC	137.	NC	NC
43.35	608.	15.2	11.1	2731.	1.00	0.	0.	ND	NC	140.	NC	NC
43.50	624.	15.0	11.1	2728.	1.00	0.	0.	ND	NC	144.	NC	NC
43.65	631.	14.2	11.1	2726.	1.01	0.3	20.	ND	NC	145.	NC	NC
43.80	626.	15.3	11.1	2735.	1.00	0.	0.	ND	NC	144.	NC	NC
43.95	623.	14.4	11.3	2783.	1.00	0.	0.	ND	NC	143.	NC	NC
44.10	628.	13.4	11.3	2777.	1.00	0.	0.	ND	NC	144.	NC	NC
44.25	637.	12.4	11.3	2769.	1.00	0.	0.	ND	NC	146.	NC	NC
44.40	637.	11.7	11.4	2808.	1.00	0.	0.	ND	NC	146.	NC	NC
44.55	623.	11.4	11.3	2776.	1.00	0.	0.	ND	NC	143.	NC	NC
44.70	619.	11.9	11.3	2776.	1.00	0.	0.	ND	NC	142.	NC	NC
44.85	627.	12.8	11.4	2802.	1.00	0.	0.	ND	NC	144.	NC	NC
45.00	624.	13.6	11.5	2819.	1.00	0.	0.	ND	NC	143.	NC	NC
45.15	612.	15.2	11.5	2826.	1.00	0.	0.	ND	NC	141.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 20 78
RUN NUMBER- 30
SEGMENT NUMBER- 1
WATER DEPTH- 10 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	498.	14.6	3.5	851.	1.01	0.5	2.	2.1	5.1	115.	1.	0.01
0.15	543.	14.6	4.5	1112.	1.00	0.	0.	2.2	5.4	125.	2.	0.01
0.30	580.	14.4	5.3	1474.	1.00	0.	0.	2.2	5.7	133.	2.	0.02
0.45	610.	12.4	7.6	1673.	1.00	0.	0.	2.3	6.2	140.	3.	0.02
0.60	655.	13.1	7.4	1821.	1.01	0.4	3.	2.3	6.2	151.	3.	0.02
0.75	709.	14.4	8.0	1961.	1.01	0.7	7.	2.3	6.4	163.	3.	0.02
0.90	695.	15.0	8.0	1960.	1.01	0.6	6.	2.4	6.5	160.	3.	0.02
1.05	720.	15.3	8.9	2186.	1.01	0.3	4.	2.4	6.8	166.	4.	0.02
1.20	718.	16.5	6.9	1486.	1.01	0.5	3.	2.5	6.5	165.	2.	0.01
1.35	732.	24.4	4.2	1039.	1.00	0.	0.	2.7	6.5	168.	2.	0.01
1.50	746.	24.0	4.1	1002.	1.01	0.3	2.	2.9	6.8	172.	2.	0.01
1.65	761.	22.8	5.4	1337.	1.00	0.	0.	3.0	7.4	175.	2.	0.01
1.80	737.	25.2	7.1	1736.	1.00	0.	0.	3.1	8.0	169.	4.	0.02
1.95	741.	25.7	4.6	1140.	1.00	0.	0.	3.3	8.0	170.	2.	0.01
2.10	772.	23.9	4.2	1033.	1.00	0.	0.	3.6	8.6	178.	2.	0.01
2.25	814.	23.0	4.7	1149.	1.00	0.	0.	3.9	9.3	187.	3.	0.01
2.40	863.	22.7	5.9	1442.	1.00	0.	0.	4.2	10.2	198.	4.	0.02
2.55	834.	22.0	6.5	1602.	1.02	1.3	10.	4.5	11.0	192.	4.	0.02
2.70	870.	21.2	7.2	1778.	1.05	2.8	24.	4.8	12.0	200.	5.	0.03
2.85	910.	21.4	7.5	1847.	1.04	2.3	21.	5.2	12.8	209.	6.	0.03
3.00	940.	19.5	7.5	1835.	1.04	2.3	21.	5.5	13.6	216.	6.	0.03
3.15	937.	17.6	7.2	1778.	1.05	3.1	27.	5.9	14.4	215.	6.	0.03
3.30	931.	18.5	7.2	1764.	1.04	2.6	22.	6.3	15.2	214.	7.	0.03
3.45	876.	18.6	7.2	1773.	1.03	2.0	17.	6.7	16.2	201.	7.	0.04
3.60	840.	20.4	6.7	1640.	1.04	2.6	21.	7.1	17.0	193.	7.	0.04
3.75	828.	22.5	6.6	1615.	1.02	1.3	10.	7.5	17.9	190.	7.	0.04
3.90	854.	25.2	6.8	1666.	1.04	2.5	20.	7.9	18.9	197.	8.	0.04
4.05	877.	25.9	6.8	1680.	1.03	2.1	17.	8.2	19.7	202.	8.	0.04
4.20	851.	25.4	6.8	1674.	1.04	2.4	19.	8.5	20.5	196.	9.	0.04
4.35	833.	25.0	7.0	1726.	1.04	2.6	21.	8.9	21.2	191.	9.	0.05
4.50	835.	24.9	7.2	1778.	1.04	2.2	19.	9.1	21.9	192.	10.	0.05
4.65	836.	23.9	7.1	1735.	1.02	1.4	12.	9.2	22.0	192.	10.	0.05
4.80	840.	23.3	7.0	1710.	1.01	0.7	6.	9.2	22.0	193.	10.	0.05

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	849.	23.5	6.9	1690.	1.03	1.7	14.	9.8	23.3	195.	10.	0.05
5.10	890.	23.5	6.3	1548.	1.01	0.9	6.	10.5	24.8	205.	10.	0.05
5.25	880.	20.7	7.0	1726.	1.01	0.5	4.	10.7	25.5	202.	11.	0.05
5.40	870.	22.6	6.4	1562.	1.01	0.4	3.	10.9	25.8	200.	11.	0.05
5.55	894.	22.8	5.5	1353.	1.01	0.3	2.	11.1	26.1	206.	9.	0.04
5.70	913.	20.7	4.7	1151.	1.00	0.	0.	11.7	27.4	210.	8.	0.04
5.85	911.	19.5	4.9	1193.	1.00	0.	0.	12.6	29.5	210.	9.	0.04
6.00	949.	19.5	4.5	1112.	1.00	0.	0.	13.0	30.3	218.	9.	0.04
6.15	1057.	21.0	4.7	1156.	1.00	0.	0.	13.5	31.5	243.	9.	0.04
6.30	1021.	20.0	4.5	1101.	1.00	0.	0.	14.0	32.5	235.	9.	0.04
6.45	928.	24.7	5.0	1241.	1.00	0.	0.	14.2	33.2	213.	13.	0.05
6.60	778.	27.8	5.0	1218.	1.00	0.	0.	14.5	33.9	179.	12.	0.06
6.75	832.	28.9	4.3	1057.	1.00	0.	0.	14.9	34.6	191.	9.	0.05
6.90	843.	26.7	4.5	1099.	1.00	0.	0.	15.2	35.4	194.	12.	0.05
7.05	852.	26.4	5.0	1221.	1.00	0.	0.	15.5	36.2	196.	11.	0.06
7.20	859.	26.2	5.9	1457.	1.00	0.	0.	15.9	37.2	198.	14.	0.07
7.35	866.	26.0	5.3	1544.	1.01	0.6	4.	16.2	38.1	199.	15.	0.07
7.50	846.	25.6	6.5	1610.	1.01	0.9	7.	16.6	38.9	195.	16.	0.08
7.65	842.	24.9	7.2	1763.	1.01	0.5	5.	16.8	39.6	194.	18.	0.09
7.80	848.	24.8	7.4	1826.	1.01	0.3	3.	17.0	40.0	195.	18.	0.09
7.95	860.	22.3	7.4	1811.	1.01	0.7	6.	17.2	40.4	198.	19.	0.09
8.10	870.	24.5	7.3	1803.	1.01	0.6	5.	17.3	40.8	200.	19.	0.09
8.25	967.	22.9	6.8	1683.	1.01	0.3	3.	17.5	41.1	222.	18.	0.08
8.40	926.	20.2	6.2	1526.	1.00	0.	0.	17.7	41.4	214.	16.	0.07
8.55	915.	19.8	6.8	1679.	1.00	0.	0.	17.9	41.9	210.	18.	0.08
8.70	927.	19.7	7.4	1819.	1.01	0.3	3.	18.0	42.5	213.	20.	0.09
8.85	991.	19.0	6.0	1470.	1.00	0.	0.	18.2	42.6	228.	16.	0.07
9.00	1020.	19.1	6.1	1503.	1.00	0.	0.	18.4	43.0	235.	16.	0.07
9.15	1052.	23.5	7.2	1776.	1.00	0.	0.	18.6	43.7	242.	20.	0.08
9.30	1139.	27.2	6.5	1600.	1.00	0.	0.	19.2	44.9	262.	18.	0.07
9.45	1258.	31.3	5.4	1320.	1.00	0.	0.	19.7	46.0	289.	15.	0.05
9.60	1177.	29.3	6.2	1515.	1.00	0.	0.	20.0	46.7	271.	18.	0.07
9.75	1112.	32.6	7.6	1871.	1.00	0.	0.	20.1	47.4	256.	22.	0.09
9.90	1139.	33.9	4.4	1079.	1.00	0.	0.	20.6	47.8	262.	13.	0.05
10.05	1111.	31.5	5.0	1229.	1.00	0.	0.	21.9	51.0	255.	16.	0.06
10.20	1086.	31.9	8.1	1996.	1.00	0.	0.	22.0	51.9	250.	26.	0.10
10.35	1191.	31.7	5.5	1348.	1.00	0.	0.	22.5	52.4	274.	18.	0.07
10.50	1135.	29.5	5.1	1262.	1.00	0.	0.	23.6	54.8	261.	17.	0.07
10.65	1115.	28.0	7.0	1732.	1.00	0.	0.	23.5	55.1	256.	24.	0.09

RUN NUMBER- 30
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1149.	28.8	4.8	1173.	1.00	0.	0.	23.4	54.4	264.	16.	0.06
10.95	1211.	27.9	4.9	1208.	1.00	0.	0.	23.8	55.2	279.	17.	0.06
11.10	1206.	25.7	5.4	1329.	1.00	0.	0.	23.4	54.5	277.	18.	0.07
11.25	1297.	24.1	6.0	1478.	1.00	0.	0.	22.8	53.1	298.	20.	0.07
11.40	1325.	23.7	5.4	1338.	1.00	0.	0.	22.7	52.8	305.	18.	0.06
11.55	1293.	24.0	4.6	1137.	1.00	0.	0.	22.7	52.7	297.	15.	0.05
11.70	1240.	24.8	4.7	1148.	1.00	0.	0.	23.1	53.7	285.	16.	0.05
11.85	1190.	26.8	6.5	1586.	1.00	0.	0.	23.6	55.0	274.	22.	0.08
12.00	1146.	30.1	5.3	1307.	1.00	0.	0.	23.6	54.8	263.	18.	0.07
12.15	1127.	33.3	4.9	1204.	1.00	0.	0.	23.5	54.6	259.	17.	0.06
12.30	1114.	32.4	6.0	1485.	1.00	0.	0.	23.4	54.7	256.	21.	0.08
12.45	1125.	32.4	6.4	1565.	1.00	0.	0.	23.4	54.6	259.	22.	0.08
12.60	1136.	30.6	6.4	1584.	1.00	0.	0.	23.3	54.4	261.	22.	0.08
12.75	1123.	30.6	5.7	1409.	1.00	0.	0.	23.3	54.1	258.	19.	0.07
12.90	1100.	31.6	4.5	1112.	1.00	0.	0.	23.2	53.8	253.	15.	0.06
13.05	1105.	29.8	5.0	1218.	1.00	0.	0.	23.1	53.7	254.	17.	0.07
13.20	1114.	28.9	5.7	1412.	1.00	0.	0.	23.1	53.7	256.	19.	0.07
13.35	1129.	28.7	5.5	1347.	1.00	0.	0.	22.9	53.4	260.	18.	0.07
13.50	1176.	28.6	5.0	1242.	1.00	0.	0.	22.8	53.1	271.	17.	0.06
13.65	1231.	25.5	5.2	1288.	1.00	0.	0.	22.7	52.9	283.	17.	0.06
13.80	1258.	24.4	5.3	1303.	1.00	0.	0.	22.6	52.6	289.	17.	0.06
13.95	1286.	23.9	5.0	1221.	1.00	0.	0.	22.5	52.3	296.	16.	0.05
14.10	1276.	23.8	4.4	1078.	1.00	0.	0.	22.4	52.0	293.	14.	0.05
14.25	1200.	23.8	4.6	1132.	1.00	0.	0.	23.4	54.4	276.	16.	0.06
14.40	1159.	26.0	5.2	1271.	1.00	0.	0.	24.1	56.0	267.	18.	0.07
14.55	1150.	28.2	4.9	1204.	1.00	0.	0.	24.3	56.4	264.	17.	0.06
14.70	1139.	30.4	4.4	1090.	1.00	0.	0.	24.1	55.9	262.	15.	0.06
14.85	1123.	31.8	5.7	1400.	1.00	0.	0.	23.6	54.9	258.	19.	0.08
15.00	1071.	34.7	5.2	1283.	1.00	0.	0.	23.8	55.2	246.	18.	0.07
15.15	951.	32.8	4.2	1032.	1.00	0.	0.	23.9	55.3	219.	14.	0.07
15.30	740.	27.2	4.2	1030.	1.00	0.	0.	23.1	53.5	171.	14.	0.08
15.45	521.	22.9	4.2	1028.	1.00	0.	0.	21.6	50.1	120.	13.	0.11
15.60	277.	18.3	4.2	1023.	1.00	0.	0.	20.0	46.4	64.	12.	0.19
15.75	71.	14.1	3.9	955.	1.00	0.	0.	18.4	42.8	16.	10.	0.63
15.90	78.	9.9	2.6	629.	1.00	0.	0.	16.8	39.0	18.	6.	0.35
16.05	51.	7.6	1.5	369.	1.01	0.5	1.	15.1	34.9	12.	3.	0.28
16.20	69.	7.9	1.2	288.	1.01	0.9	1.	13.5	31.1	16.	2.	0.14
16.35	202.	9.1	1.2	285.	1.02	1.3	2.	12.3	28.5	46.	2.	0.04
16.50	254.	10.7	1.4	350.	1.03	1.5	3.	11.3	26.0	58.	2.	0.04

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	292.	9.3	2.1	514.	1.03	1.6	4.	10.8	25.0	67.	3.	0.05
16.80	340.	8.6	1.7	413.	1.03	1.5	3.	10.6	24.5	78.	3.	0.03
16.95	328.	9.8	2.3	576.	1.03	1.5	4.	10.8	24.9	75.	4.	0.05
17.10	312.	10.6	3.3	808.	1.03	1.7	7.	10.5	24.5	72.	5.	0.07
17.25	319.	11.5	3.3	816.	1.03	1.8	7.	10.5	24.4	73.	5.	0.07
17.40	342.	13.9	3.5	867.	1.03	1.7	7.	11.3	26.2	79.	6.	0.07
17.55	364.	16.1	4.4	1092.	1.03	1.5	8.	11.8	27.5	84.	8.	0.09
17.70	383.	16.4	4.7	1158.	1.03	1.9	11.	12.2	28.6	88.	8.	0.10
17.85	402.	17.8	4.6	1140.	1.04	2.4	13.	12.8	29.7	93.	9.	0.09
18.00	449.	19.0	4.3	1050.	1.04	2.7	14.	12.8	29.8	103.	8.	0.08
18.15	497.	20.0	3.9	968.	1.09	5.6	26.	12.7	29.5	114.	7.	0.06
18.30	627.	21.1	3.9	958.	1.13	7.9	37.	13.0	30.2	144.	7.	0.05
18.45	611.	21.6	4.1	1005.	1.09	5.8	28.	13.4	31.1	140.	8.	0.06
18.60	617.	21.9	4.3	1046.	1.09	5.7	29.	13.4	31.2	142.	8.	0.06
18.75	642.	20.8	4.3	1067.	1.08	4.8	25.	14.0	32.5	148.	9.	0.06
18.90	646.	19.5	4.2	1033.	1.07	4.2	21.	13.9	32.4	149.	8.	0.06
19.05	667.	19.6	4.3	1048.	1.06	3.9	20.	14.5	33.7	153.	9.	0.06
19.20	684.	18.8	4.3	1070.	1.07	4.2	22.	14.8	34.5	157.	9.	0.06
19.35	689.	17.4	4.3	1059.	1.07	4.0	21.	14.8	34.5	158.	9.	0.06
19.50	706.	16.8	4.2	1027.	1.06	3.7	18.	14.9	34.6	162.	9.	0.06
19.65	645.	15.7	4.3	1065.	1.06	3.6	19.	14.9	34.7	148.	9.	0.06
19.80	607.	15.6	4.6	1134.	1.06	3.7	20.	15.0	34.9	140.	10.	0.07
19.95	593.	17.4	4.7	1153.	1.06	3.6	20.	15.1	35.1	137.	10.	0.08
20.10	584.	20.4	5.2	1280.	1.06	3.5	21.	15.2	35.4	134.	11.	0.09
20.25	621.	21.8	5.3	1309.	1.06	3.4	22.	15.2	35.6	143.	12.	0.08
20.40	766.	22.0	5.4	1316.	1.06	3.3	21.	15.3	35.7	176.	12.	0.07
20.55	671.	22.1	5.3	1309.	1.05	3.1	20.	15.4	35.9	154.	12.	0.08
20.70	602.	21.9	5.3	1303.	1.05	3.1	20.	15.5	36.1	139.	12.	0.09
20.85	595.	21.8	5.3	1302.	1.05	3.0	19.	15.6	36.3	137.	12.	0.09
21.00	589.	21.5	5.3	1304.	1.05	2.9	19.	15.8	36.9	135.	12.	0.09
21.15	614.	21.0	5.3	1311.	1.05	3.0	19.	16.0	37.5	141.	12.	0.09
21.30	622.	21.1	6.0	1464.	1.05	3.0	21.	16.3	38.1	143.	14.	0.10
21.45	658.	20.2	5.9	1455.	1.05	3.0	21.	16.6	38.8	151.	14.	0.09
21.60	671.	20.2	5.7	1407.	1.05	2.8	19.	15.6	36.5	154.	13.	0.08
21.75	673.	18.9	6.0	1483.	1.04	2.4	17.	15.7	36.8	155.	14.	0.09
21.90	672.	18.5	5.8	1427.	1.04	2.5	17.	15.8	37.0	155.	13.	0.09
22.05	672.	18.0	5.7	1406.	1.04	2.5	17.	15.8	37.0	155.	13.	0.09
22.20	667.	17.2	5.8	1431.	1.04	2.5	18.	15.8	36.9	153.	13.	0.09
22.35	649.	16.1	6.0	1486.	1.05	2.7	20.	15.8	36.9	149.	14.	0.09

RUN NUMBER- 30
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	619.	16.6	5.9	1447.	1.05	3.0	21.	15.7	36.8	142.	13.	0.09
22.65	617.	17.5	5.8	1421.	1.05	2.9	20.	15.8	36.9	142.	13.	0.09
22.80	576.	18.9	6.0	1479.	1.04	2.6	19.	16.6	38.9	132.	15.	0.11
22.95	566.	21.5	5.8	1436.	1.04	2.4	17.	16.1	37.6	130.	14.	0.10
23.10	569.	21.8	5.8	1421.	1.04	2.6	18.	16.1	37.7	131.	14.	0.10
23.25	576.	22.1	5.9	1455.	1.04	2.6	18.	16.2	37.8	132.	14.	0.11
23.40	581.	21.7	5.9	1453.	1.04	2.6	18.	16.1	37.7	134.	14.	0.10
23.55	596.	21.6	5.7	1407.	1.04	2.6	18.	16.1	37.6	137.	13.	0.10
23.70	685.	21.4	5.8	1422.	1.04	2.5	17.	16.0	37.4	158.	13.	0.09
23.85	674.	21.4	6.0	1468.	1.04	2.3	17.	15.9	37.3	155.	14.	0.09
24.00	624.	21.4	5.9	1459.	1.04	2.5	18.	15.9	37.2	144.	14.	0.10
24.15	628.	20.9	5.8	1426.	1.04	2.2	15.	15.8	37.0	144.	13.	0.09
24.30	634.	20.0	5.8	1424.	1.04	2.1	15.	15.8	36.9	146.	13.	0.09
24.45	643.	19.6	5.9	1458.	1.04	2.2	16.	15.7	36.8	148.	14.	0.09
24.60	661.	18.5	6.0	1477.	1.04	2.3	17.	15.6	36.7	152.	14.	0.09
24.75	676.	17.7	5.9	1450.	1.04	2.3	16.	15.7	36.7	155.	13.	0.09
24.90	745.	17.7	5.9	1452.	1.04	2.3	16.	15.9	37.2	171.	14.	0.08
25.05	674.	16.8	6.0	1483.	1.04	2.5	18.	16.0	37.5	155.	14.	0.09
25.20	646.	16.7	5.9	1458.	1.03	1.9	13.	16.0	37.6	149.	14.	0.09
25.35	583.	17.4	5.9	1441.	1.04	2.3	16.	16.4	38.4	134.	14.	0.10
25.50	575.	18.1	6.0	1465.	1.04	2.3	17.	17.3	40.4	132.	15.	0.11
25.65	574.	21.1	6.0	1475.	1.04	2.3	16.	16.5	38.7	132.	14.	0.11
25.80	575.	22.0	6.0	1467.	1.03	1.9	13.	16.2	37.9	132.	14.	0.11
25.95	581.	22.5	5.9	1454.	1.03	2.1	15.	16.2	38.0	134.	14.	0.10
26.10	598.	22.4	6.1	1489.	1.04	2.4	17.	16.3	38.2	138.	14.	0.10
26.25	583.	22.3	5.9	1463.	1.04	2.6	18.	16.3	38.2	134.	14.	0.11
26.40	579.	21.9	5.8	1428.	1.04	2.4	17.	16.4	38.3	133.	14.	0.10
26.55	587.	21.8	6.0	1479.	1.04	2.3	16.	16.4	38.4	135.	14.	0.11
26.70	599.	21.4	6.1	1492.	1.04	2.7	19.	16.3	38.2	138.	14.	0.10
26.85	607.	20.9	5.8	1435.	1.04	2.4	17.	16.2	37.9	140.	14.	0.10
27.00	625.	20.6	5.7	1394.	1.04	2.3	16.	16.1	37.6	144.	13.	0.09
27.15	635.	20.1	5.9	1455.	1.04	2.2	15.	16.0	37.4	146.	14.	0.09
27.30	654.	19.2	5.7	1402.	1.03	2.1	14.	15.9	37.1	150.	13.	0.09
27.45	669.	19.3	5.7	1393.	1.03	2.0	14.	15.8	36.9	154.	13.	0.08
27.60	672.	19.1	5.8	1427.	1.03	2.0	14.	15.7	36.7	154.	13.	0.09
27.75	654.	16.6	6.0	1468.	1.03	2.0	14.	15.6	36.4	151.	14.	0.09
27.90	639.	16.9	5.9	1456.	1.03	2.0	14.	15.2	35.7	147.	13.	0.09
28.05	621.	18.2	5.7	1410.	1.03	2.1	14.	15.5	36.2	143.	13.	0.09
28.20	662.	20.3	5.9	1454.	1.03	2.1	15.	17.4	40.7	152.	15.	0.10

RUN NUMBER- 30
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	655.	22.1	5.7	1393.	1.04	2.2	15.	18.4	43.0	151.	15.	0.10
28.50	599.	22.8	5.6	1384.	1.04	2.2	15.	16.9	39.4	138.	14.	0.10
28.65	573.	22.6	5.8	1424.	1.03	2.1	15.	17.2	40.2	132.	14.	0.11
28.80	567.	22.2	5.9	1461.	1.04	2.2	16.	17.3	40.4	131.	15.	0.11
28.95	587.	21.9	5.8	1417.	1.04	2.1	15.	17.1	40.0	135.	14.	0.11
29.10	589.	21.5	5.7	1407.	1.03	2.0	14.	17.0	39.6	135.	14.	0.10
29.25	600.	21.4	5.8	1436.	1.03	2.0	14.	16.8	39.3	138.	14.	0.10
29.40	613.	21.4	6.0	1473.	1.03	1.8	13.	16.7	39.0	141.	15.	0.10
29.55	617.	20.2	5.7	1409.	1.03	1.7	12.	16.5	38.6	142.	14.	0.10
29.70	621.	20.3	5.8	1426.	1.03	1.7	12.	16.3	38.2	143.	14.	0.10
29.85	639.	20.1	6.0	1477.	1.03	1.8	13.	16.2	37.9	147.	14.	0.10
30.00	652.	19.7	6.0	1475.	1.03	1.9	14.	16.0	37.5	150.	14.	0.09
30.15	651.	18.8	5.8	1431.	1.03	2.0	14.	15.9	37.1	150.	13.	0.09
30.30	654.	17.6	6.0	1478.	1.03	2.0	15.	15.7	36.8	151.	14.	0.09
30.45	657.	16.5	5.8	1416.	1.04	2.2	15.	15.6	36.6	151.	13.	0.09
30.60	660.	16.0	5.5	1350.	1.04	2.2	15.	16.0	37.5	152.	13.	0.08
30.75	671.	16.7	5.6	1373.	1.04	2.2	14.	16.5	38.6	154.	13.	0.09
30.90	703.	18.2	6.0	1470.	1.04	2.4	17.	17.1	40.0	162.	15.	0.09
31.05	738.	23.3	6.2	1513.	1.03	1.8	13.	17.6	41.1	170.	16.	0.09
31.20	797.	25.5	6.2	1533.	1.03	1.9	14.	17.6	41.3	183.	16.	0.09
31.35	846.	27.5	5.3	1559.	1.03	1.7	13.	18.0	42.1	195.	17.	0.09
31.50	858.	28.6	6.6	1619.	1.03	1.9	15.	18.4	43.2	197.	18.	0.09
31.65	904.	28.9	6.9	1701.	1.04	2.3	19.	19.0	44.5	208.	19.	0.09
31.80	1035.	28.9	6.9	1701.	1.03	2.1	17.	19.6	46.0	238.	20.	0.08
31.95	973.	29.1	7.2	1780.	1.03	1.8	16.	20.0	46.9	224.	21.	0.09
32.10	977.	29.3	7.3	1805.	1.03	2.0	17.	20.1	47.2	225.	22.	0.10
32.25	1025.	29.0	7.6	1864.	1.04	2.3	20.	20.3	47.8	236.	23.	0.10
32.40	1033.	28.5	8.1	1984.	1.03	1.7	17.	20.4	48.0	238.	24.	0.10
32.55	1064.	27.9	8.1	2003.	1.03	1.9	18.	21.1	49.6	245.	25.	0.10
32.70	1081.	27.0	8.1	1999.	1.03	1.9	19.	21.3	50.1	249.	25.	0.10
32.85	1094.	25.6	8.1	1986.	1.03	1.7	16.	21.4	50.4	252.	25.	0.10
33.00	1130.	23.6	8.0	1973.	1.02	1.5	14.	21.3	50.0	260.	25.	0.10
33.15	1131.	22.1	8.0	1972.	1.03	1.9	18.	20.9	49.3	260.	25.	0.09
33.30	1094.	21.3	8.0	1973.	1.03	1.9	18.	20.6	48.6	252.	24.	0.10
33.45	1058.	21.7	8.0	1966.	1.03	1.8	17.	20.4	48.0	243.	24.	0.10
33.60	1015.	24.7	7.3	1796.	1.04	2.4	21.	20.4	47.8	234.	22.	0.09
33.75	1014.	28.3	5.7	1390.	1.07	4.0	27.	20.8	48.5	233.	17.	0.07
33.90	1017.	29.9	4.9	1199.	1.01	0.5	3.	21.1	49.2	234.	15.	0.06
34.05	1097.	30.1	4.7	1145.	1.00	0.	0.	21.3	49.5	252.	14.	0.06

RUN NUMBER- 3
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1070.	29.7	4.7	1146.	1.03	1.9	11.	21.4	49.8	246.	14.	0.06
34.35	1017.	29.2	4.6	1130.	1.08	4.9	27.	20.8	48.3	234.	14.	0.06
34.50	1006.	28.5	4.4	1092.	1.09	5.7	30.	20.3	47.1	231.	13.	0.06
34.65	1014.	28.4	4.5	1100.	1.10	5.9	32.	20.3	47.2	233.	13.	0.06
34.80	1008.	27.7	4.4	1082.	1.10	6.3	33.	20.4	47.3	232.	13.	0.06
34.95	1005.	27.1	4.4	1070.	1.09	5.4	28.	20.4	47.4	231.	13.	0.06
35.10	1023.	27.3	4.3	1070.	1.08	4.9	25.	20.5	47.5	235.	13.	0.05
35.25	1079.	26.9	4.4	1088.	1.03	2.0	11.	20.5	47.6	248.	13.	0.05
35.40	1084.	25.2	4.5	1103.	1.02	1.5	8.	20.5	47.7	249.	13.	0.05
35.55	1101.	24.0	4.5	1113.	1.05	2.8	15.	20.6	47.8	253.	13.	0.05
35.70	1137.	22.6	4.6	1121.	1.03	1.9	10.	20.6	47.9	262.	14.	0.05
35.85	1138.	21.1	4.6	1123.	1.03	1.9	10.	20.7	48.0	262.	14.	0.05
36.00	1121.	20.9	4.6	1121.	1.04	2.7	14.	20.7	48.1	258.	14.	0.05
36.15	1056.	22.0	4.5	1116.	1.05	3.0	16.	20.8	48.4	243.	14.	0.06
36.30	1034.	24.6	4.3	1063.	1.04	2.4	12.	21.0	48.7	238.	13.	0.06
36.45	1125.	28.7	4.3	1046.	1.02	1.3	6.	21.1	49.0	259.	13.	0.05
36.60	985.	30.9	4.4	1071.	1.06	3.5	18.	21.2	49.3	227.	13.	0.06
36.75	1005.	32.2	4.3	1055.	1.02	1.5	7.	21.4	49.6	231.	13.	0.06
36.90	994.	30.4	4.5	1105.	1.05	2.8	15.	21.5	49.9	229.	14.	0.06
37.05	1015.	30.6	4.6	1124.	1.04	2.2	12.	21.6	50.2	233.	14.	0.06
37.20	1055.	30.6	4.0	996.	1.02	1.2	6.	21.8	50.4	243.	13.	0.05
37.35	1055.	29.5	4.2	1044.	1.00	0.	0.	21.9	50.8	243.	13.	0.05
37.50	1051.	30.6	4.8	1170.	1.00	0.	0.	22.1	51.3	242.	15.	0.06
37.65	1059.	31.7	4.2	1042.	1.00	0.	0.	23.2	53.7	244.	14.	0.06
37.80	1071.	30.5	4.1	1011.	1.00	0.	0.	24.2	56.0	246.	14.	0.06
37.95	1091.	28.2	4.1	1019.	1.00	0.	0.	23.9	55.5	251.	14.	0.06
38.10	1108.	28.6	4.2	1026.	1.00	0.	0.	23.7	55.0	255.	14.	0.06
38.25	1148.	29.6	4.1	1020.	1.00	0.	0.	24.0	55.6	264.	14.	0.05
38.40	1215.	26.7	4.1	1013.	1.00	0.	0.	23.5	54.5	279.	14.	0.05
38.55	1269.	24.4	4.1	1007.	1.00	0.	0.	24.3	56.2	292.	14.	0.05
38.70	1270.	26.0	4.1	1007.	1.00	0.	0.	24.7	57.1	292.	15.	0.05
38.85	1165.	27.2	3.9	950.	1.00	0.	0.	25.3	58.5	268.	14.	0.05
39.00	1117.	28.3	4.0	990.	1.00	0.	0.	25.0	57.9	257.	14.	0.06
39.15	1058.	31.3	4.1	1005.	1.00	0.	0.	24.9	57.7	243.	15.	0.06
39.30	1090.	34.2	4.0	990.	1.00	0.	0.	25.0	57.9	251.	14.	0.06
39.45	1072.	33.3	3.9	958.	1.00	0.	0.	25.3	58.6	247.	14.	0.06
39.60	1047.	32.1	4.1	1017.	1.00	0.	0.	25.1	58.2	241.	15.	0.06
39.75	1109.	35.2	4.3	1050.	1.00	0.	0.	25.1	58.1	255.	15.	0.06
39.90	1166.	35.0	3.8	935.	1.00	0.	0.	25.1	58.1	268.	14.	0.05

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1089.	31.2	3.9	963.	1.00	0.	0.	25.1	58.2	250.	14.	0.06
40.20	1039.	32.2	4.5	1108.	1.00	0.	0.	25.2	58.4	239.	16.	0.07
40.35	1028.	32.8	4.2	1044.	1.00	0.	0.	25.2	58.4	237.	15.	0.07
40.50	1072.	32.0	4.0	995.	1.00	0.	0.	25.3	58.5	247.	15.	0.06
40.65	1102.	29.1	4.1	1004.	1.00	0.	0.	25.3	58.6	253.	15.	0.06
40.80	1114.	30.0	4.1	1004.	1.00	0.	0.	25.3	58.7	256.	15.	0.06
40.95	1149.	27.1	4.1	1000.	1.00	0.	0.	25.4	58.8	264.	15.	0.06
41.10	1223.	25.1	4.1	1004.	1.00	0.	0.	24.5	56.8	281.	14.	0.05
41.25	1300.	24.8	4.4	1093.	1.00	0.	0.	23.6	54.8	299.	15.	0.05
41.40	1356.	25.8	4.7	1163.	1.02	0.9	5.	24.3	56.4	312.	17.	0.05
41.55	1308.	26.8	4.9	1198.	1.04	2.7	16.	25.0	58.0	301.	18.	0.06
41.70	1246.	29.6	5.0	1228.	1.08	5.0	30.	24.9	57.8	287.	18.	0.06
41.85	1195.	33.9	4.8	1191.	1.08	4.7	27.	24.2	56.3	275.	17.	0.06
42.00	1197.	37.1	4.3	1051.	1.03	1.6	8.	24.9	57.7	275.	15.	0.06
42.15	1208.	37.7	4.2	1035.	1.01	0.6	3.	25.3	58.6	276.	15.	0.06
42.30	1170.	35.0	4.3	1068.	1.04	2.3	12.	25.1	58.2	269.	16.	0.06
42.45	1165.	35.6	4.4	1070.	1.01	0.8	4.	25.4	58.8	268.	16.	0.06
42.60	1167.	33.9	4.2	1041.	1.00	0.	0.	25.5	59.0	268.	16.	0.06
42.75	1162.	32.6	4.4	1076.	1.01	0.4	2.	25.5	59.2	267.	16.	0.06
42.90	1150.	32.7	4.7	1147.	1.01	0.6	3.	25.6	59.3	265.	17.	0.07
43.05	1232.	33.2	4.3	1057.	1.00	0.	0.	25.9	60.1	283.	16.	0.06
43.20	1173.	32.3	4.2	1025.	1.00	0.	0.	26.4	61.1	270.	16.	0.06
43.35	1196.	30.1	4.2	1049.	1.00	0.	0.	26.6	61.6	275.	16.	0.06
43.50	1227.	29.1	4.3	1046.	1.00	0.	0.	25.9	62.4	282.	17.	0.06
43.65	1307.	29.0	4.3	1048.	1.00	0.	0.	27.5	63.6	301.	17.	0.06
43.80	1374.	26.4	4.2	1024.	1.00	0.	0.	27.1	62.7	316.	16.	0.05
43.95	1378.	24.9	4.0	995.	1.00	0.	0.	24.9	57.6	317.	14.	0.05
44.10	1357.	25.7	4.2	1027.	1.00	0.	0.	25.9	59.9	312.	16.	0.05
44.25	1267.	30.1	3.8	930.	1.00	0.	0.	27.5	63.8	291.	15.	0.05
44.40	1291.	33.5	4.0	974.	1.00	0.	0.	28.3	65.6	297.	16.	0.05
44.55	1267.	35.5	4.2	1036.	1.00	0.	0.	27.9	64.7	291.	17.	0.06
44.70	1238.	36.2	3.8	946.	1.00	0.	0.	27.6	63.8	285.	15.	0.05
44.85	1207.	36.1	4.0	994.	1.00	0.	0.	27.4	63.5	278.	16.	0.06
45.00	1183.	35.1	4.3	1047.	1.00	0.	0.	27.0	62.6	272.	17.	0.06
45.15	1147.	35.9	4.4	1082.	1.04	2.2	11.	26.8	62.2	264.	17.	0.06
45.30	1152.	34.6	4.4	1073.	1.03	1.6	9.	27.1	62.7	265.	17.	0.06
45.45	1158.	32.6	4.3	1063.	1.01	0.5	2.	26.5	61.5	266.	17.	0.06
45.60	1199.	34.0	4.4	1090.	1.02	1.0	5.	26.5	61.4	276.	17.	0.06
45.75	1230.	35.0	4.2	1045.	1.00	0.	0.	27.2	63.1	283.	17.	0.06

RUN NUMBER- 30
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1219.	32.7	4.2	1041.	1.00	0.	0.	27.4	63.5	280.	17.	0.06
46.05	1236.	31.5	4.3	1068.	1.00	0.	0.	27.6	63.9	284.	17.	0.06
46.20	1274.	30.6	4.4	1083.	1.00	0.	0.	27.4	63.6	293.	17.	0.06
46.35	1373.	28.5	4.7	1146.	1.03	2.0	11.	26.1	60.5	316.	18.	0.06
46.50	1387.	25.9	4.6	1127.	1.06	3.6	20.	25.8	59.8	319.	17.	0.05
46.65	1370.	26.1	4.6	1131.	1.07	4.0	22.	25.4	59.0	315.	17.	0.05
46.80	1317.	26.1	4.6	1135.	1.04	2.7	15.	25.6	59.5	303.	17.	0.06
46.95	1241.	27.9	4.6	1124.	1.01	0.7	4.	26.6	61.8	286.	18.	0.06
47.10	1222.	32.7	4.5	1112.	1.08	5.0	27.	26.7	62.0	281.	17.	0.06
47.25	1191.	35.7	4.5	1104.	1.14	8.5	46.	26.9	62.3	274.	17.	0.06
47.40	1183.	36.0	4.4	1093.	1.04	2.6	14.	26.8	62.2	272.	17.	0.06
47.55	1163.	36.1	4.4	1079.	1.02	0.9	5.	26.5	61.4	267.	17.	0.06
47.70	1302.	35.8	4.1	998.	1.04	2.7	13.	26.8	62.0	299.	16.	0.05
47.85	1188.	35.1	4.2	1038.	1.02	1.1	5.	26.6	61.6	273.	16.	0.06
48.00	1174.	35.6	4.0	983.	1.00	0.	0.	26.9	62.4	270.	16.	0.06
48.15	1160.	35.6	4.2	1043.	1.00	0.	0.	27.5	63.7	267.	17.	0.06
48.30	1168.	32.9	4.4	1070.	1.00	0.	0.	27.3	63.3	269.	17.	0.06
48.45	1192.	33.8	4.4	1084.	1.01	0.4	2.	26.7	61.9	274.	17.	0.06
48.60	1207.	33.2	4.5	1098.	1.01	0.9	5.	27.0	62.6	278.	17.	0.06
48.75	1253.	31.9	4.5	1112.	1.01	0.8	4.	27.5	63.8	288.	18.	0.06
48.90	1317.	30.2	4.5	1099.	1.02	1.0	5.	27.1	62.8	303.	17.	0.06
49.05	1411.	28.2	4.6	1126.	1.05	3.0	16.	26.8	62.2	324.	18.	0.05
49.20	1409.	26.7	4.4	1093.	1.10	6.1	32.	26.5	61.4	324.	17.	0.05
49.35	1358.	26.9	4.4	1086.	1.12	7.5	40.	26.3	61.0	312.	17.	0.05
49.50	1292.	27.3	4.4	1085.	1.09	5.3	28.	26.2	60.7	297.	17.	0.06
49.65	1214.	31.5	4.4	1086.	1.03	1.6	8.	26.7	61.9	279.	17.	0.06
49.80	1212.	35.9	4.4	1087.	1.12	7.4	39.	26.9	62.4	279.	17.	0.06
49.95	1202.	37.0	4.4	1084.	1.08	4.7	25.	26.9	62.5	276.	17.	0.06
50.10	1215.	38.4	4.3	1067.	1.03	1.8	10.	27.5	63.8	279.	17.	0.06
50.25	1197.	39.0	4.3	1056.	1.01	0.4	2.	27.7	64.1	275.	17.	0.06
50.40	1173.	37.5	4.3	1066.	1.12	7.3	38.	28.4	65.7	270.	18.	0.07
50.55	1164.	36.4	4.3	1052.	1.11	6.8	34.	28.2	65.2	268.	17.	0.06
50.70	1164.	37.1	4.4	1079.	1.12	7.3	38.	28.2	65.5	268.	18.	0.07
50.85	1166.	36.9	4.5	1117.	1.11	6.8	37.	28.5	66.0	268.	19.	0.07
51.00	1198.	34.5	4.4	1085.	1.10	5.9	31.	28.0	64.9	276.	18.	0.06
51.15	1246.	34.0	4.4	1076.	1.08	4.7	24.	28.1	65.0	287.	18.	0.06
51.30	1271.	34.4	4.4	1078.	1.07	4.3	23.	28.3	65.6	292.	18.	0.06
51.45	1293.	31.9	4.4	1077.	1.07	4.1	21.	27.9	64.8	297.	18.	0.06
51.60	1316.	28.7	4.2	1045.	1.07	4.0	20.	28.1	65.1	303.	17.	0.06

RUN NUMBER- 3[illegible]
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1415.	31.0	4.2	1032.	1.07	4.1	21.	28.8	66.7	325.	17.	0.05
51.90	1465.	29.4	4.3	1058.	1.03	1.6	8.	29.4	68.1	337.	18.	0.05
52.05	1385.	25.7	4.4	1074.	1.01	0.8	4.	27.9	64.6	319.	18.	0.06
52.20	1250.	28.3	4.3	1056.	1.03	1.6	8.	29.4	68.0	287.	18.	0.06
52.35	1237.	32.6	4.5	1118.	1.04	2.4	13.	30.6	71.0	284.	20.	0.07
52.50	1266.	39.5	4.6	1131.	1.02	1.1	6.	30.6	70.9	291.	20.	0.07
52.65	1193.	37.5	4.3	1059.	1.02	1.5	8.	30.3	70.2	274.	19.	0.07
52.80	1186.	37.8	4.4	1075.	1.04	2.4	12.	30.6	71.0	273.	19.	0.07

LOCATION- MASONBORO INLET
DATE OF TEST- 9 21 78
RUN NUMBER- 31
SEGMENT NUMBER- 1
WATER DEPTH- 12 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1478.	40.3	8.5	2100.	1.09	5.4	55.	29.7	69.7	349.	37.	0.11
0.15	1443.	38.8	8.6	2117.	1.07	4.4	45.	29.8	69.9	332.	37.	0.11
0.30	1448.	35.8	8.7	2131.	1.05	3.1	32.	29.8	70.0	333.	38.	0.11
0.45	1492.	37.9	8.3	2045.	1.14	8.7	87.	30.1	70.6	343.	37.	0.11
0.60	1603.	37.6	7.8	1920.	1.14	8.7	81.	29.8	69.6	368.	34.	0.09
0.75	1609.	32.4	8.3	2043.	1.08	5.0	50.	29.4	68.8	370.	36.	0.10
0.90	1695.	34.3	7.8	1923.	1.12	7.2	67.	29.6	69.3	390.	34.	0.09
1.05	1849.	34.2	7.4	1814.	1.10	6.0	52.	29.8	69.5	425.	32.	0.08
1.20	1802.	32.1	7.4	1824.	1.02	0.9	8.	29.8	69.6	414.	32.	0.08
1.35	1532.	31.3	8.0	1961.	1.03	1.7	16.	29.9	69.9	352.	35.	0.10
1.50	1525.	39.4	7.6	1868.	1.01	0.4	3.	29.9	69.9	351.	33.	0.09
1.65	1532.	41.7	7.9	1941.	1.12	7.4	69.	29.9	70.1	352.	34.	0.10
1.80	1516.	41.6	8.4	2070.	1.08	4.6	46.	30.0	70.3	349.	37.	0.11
1.95	1508.	39.0	8.6	2116.	1.05	2.9	30.	29.7	69.7	347.	37.	0.11
2.10	1504.	39.3	8.3	2049.	1.10	5.8	58.	29.7	69.6	346.	36.	0.10
2.25	1476.	39.6	8.3	2033.	1.10	5.9	59.	29.8	69.9	340.	36.	0.11
2.40	1468.	37.4	8.9	2181.	1.05	3.2	34.	29.9	70.2	338.	39.	0.11
2.55	1490.	37.3	9.0	2205.	1.06	3.4	36.	29.9	70.3	343.	39.	0.11
2.70	1610.	37.4	8.1	1982.	1.14	8.3	79.	30.0	70.3	370.	35.	0.10
2.85	1665.	35.7	8.4	2074.	1.06	3.7	37.	30.3	71.1	383.	37.	0.10
3.00	1769.	32.9	9.5	2084.	1.05	2.9	29.	30.4	71.2	407.	38.	0.09
3.15	1758.	34.4	8.3	2030.	1.07	4.2	41.	30.1	70.6	404.	36.	0.09
3.30	1630.	34.5	8.1	1995.	1.08	4.7	45.	30.4	71.1	375.	36.	0.10
3.45	1529.	34.1	8.6	2104.	1.05	3.0	30.	30.5	71.6	352.	38.	0.11
3.60	1531.	39.1	8.4	2063.	1.03	2.1	21.	30.3	71.1	352.	37.	0.11
3.75	1537.	40.8	8.3	2033.	1.06	3.9	39.	30.1	70.6	353.	36.	0.10
3.90	1518.	41.1	8.5	2095.	1.07	4.5	46.	30.4	71.2	349.	38.	0.11
4.05	1509.	39.3	8.8	2173.	1.04	2.5	26.	30.0	70.5	345.	39.	0.11
4.20	1481.	38.5	8.5	2099.	1.04	2.5	25.	30.9	72.4	341.	38.	0.11
4.35	1480.	39.8	8.2	2022.	1.08	4.8	47.	30.9	72.4	340.	37.	0.11
4.50	1502.	39.5	8.7	2151.	1.06	3.7	39.	30.9	72.4	346.	39.	0.11
4.65	1580.	35.3	9.0	2203.	1.06	3.4	36.	31.2	73.2	363.	41.	0.11
4.80	1674.	37.5	8.5	2102.	1.06	3.5	36.	31.1	72.8	385.	39.	0.10

RUN NUMBER- 31
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1806.	36.0	8.3	2035.	1.06	3.7	36.	31.0	72.6	415.	37.	0.09
5.10	1945.	32.7	8.7	2150.	1.06	3.8	40.	30.6	71.7	447.	39.	0.09
5.25	1694.	31.4	8.3	2031.	1.07	4.0	39.	30.4	71.3	399.	37.	0.09
5.40	1535.	33.3	7.9	1942.	1.07	4.1	39.	31.1	72.7	353.	36.	0.10
5.55	1523.	38.8	8.4	2065.	1.07	4.2	43.	31.2	73.1	350.	38.	0.11
5.70	1502.	41.0	8.4	2054.	1.05	2.9	29.	31.3	73.2	345.	38.	0.11
5.85	1500.	40.1	8.3	2042.	1.04	2.6	26.	31.3	73.3	345.	39.	0.11
6.00	1512.	40.2	8.2	2013.	1.06	3.7	36.	31.1	72.8	348.	37.	0.11
6.15	1464.	40.4	8.2	2018.	1.07	4.2	41.	31.1	72.8	337.	37.	0.11
6.30	1452.	37.8	8.6	2105.	1.06	3.5	36.	31.3	73.3	334.	39.	0.12
6.45	1451.	37.9	8.3	2035.	1.04	2.5	25.	31.5	73.6	334.	38.	0.11
6.60	1507.	38.6	7.9	1938.	1.06	3.4	32.	31.2	73.0	347.	36.	0.10
6.75	1580.	36.3	8.3	2044.	1.06	3.7	37.	31.3	73.3	364.	38.	0.10
6.90	1640.	33.8	8.3	2034.	1.06	3.5	34.	31.4	73.4	377.	38.	0.10
7.05	1766.	34.2	7.9	1947.	1.09	5.2	49.	31.4	73.4	406.	36.	0.09
7.20	1844.	33.1	7.9	1935.	1.09	5.2	49.	31.4	73.5	424.	36.	0.08
7.35	1704.	29.2	8.1	1982.	1.07	4.0	39.	29.8	69.7	392.	35.	0.09
7.50	1515.	31.0	7.7	1906.	1.05	3.0	28.	29.7	69.4	348.	33.	0.10
7.65	1520.	37.5	7.6	1870.	1.06	3.8	34.	31.6	73.8	350.	35.	0.10
7.80	1506.	41.0	7.7	1893.	1.08	4.7	43.	31.2	72.9	346.	35.	0.10
7.95	1480.	38.9	7.8	1918.	1.08	4.8	45.	31.0	72.5	340.	35.	0.10
8.10	1493.	36.4	8.0	1969.	1.07	4.2	40.	30.8	72.1	343.	36.	0.10
8.25	1468.	38.5	6.9	1702.	1.08	4.9	41.	30.9	72.0	338.	31.	0.09
8.40	1442.	39.8	7.0	1732.	1.02	1.0	8.	30.9	72.1	332.	32.	0.10
8.55	1463.	37.8	7.6	1871.	1.03	1.6	15.	31.2	73.0	337.	35.	0.10
8.70	1517.	37.7	8.1	1981.	1.07	4.1	39.	31.3	73.3	349.	37.	0.11
8.85	1600.	37.9	8.1	1988.	1.13	7.9	77.	31.4	73.4	368.	37.	0.10
9.00	1681.	34.2	8.1	1982.	1.12	7.5	72.	31.3	73.3	387.	37.	0.10
9.15	1740.	32.3	7.3	1794.	1.14	8.5	74.	31.2	72.8	400.	33.	0.08
9.30	1787.	32.8	7.2	1776.	1.17	10.4	90.	31.5	73.5	411.	33.	0.08
9.45	1603.	32.7	7.3	1801.	1.16	9.9	86.	31.6	73.6	369.	34.	0.09
9.60	1519.	33.4	7.0	1713.	1.13	7.9	66.	31.0	72.2	349.	31.	0.09
9.75	1515.	39.3	6.4	1581.	1.12	7.3	56.	30.1	70.2	349.	28.	0.08
9.90	1504.	42.1	6.1	1504.	1.14	8.7	63.	30.6	71.2	346.	27.	0.08
10.05	1474.	41.1	5.5	1341.	1.17	10.0	65.	31.0	72.0	339.	24.	0.07
10.20	1450.	36.6	6.8	1664.	1.11	6.4	52.	31.0	72.2	333.	30.	0.09
10.35	1455.	40.7	6.5	1587.	1.08	4.8	37.	30.9	72.0	335.	29.	0.09
10.50	1456.	39.2	5.1	1244.	1.04	2.5	15.	31.1	72.3	335.	23.	0.07
10.65	1456.	36.4	5.8	1435.	1.00	0.	0.	31.5	73.3	335.	27.	0.08

RUN NUMBER- 31
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1543.	33.8	5.7	1401.	1.00	0.	0.	31.7	73.6	355.	26.	0.07
10.95	1502.	37.7	5.7	1392.	1.00	0.	0.	31.7	73.7	345.	26.	0.08
11.10	1525.	35.9	6.0	1468.	1.00	0.	0.	31.3	72.8	351.	27.	0.08
11.25	1549.	24.9	6.5	1599.	1.00	0.	0.	29.1	67.8	356.	27.	0.08
11.40	1561.	28.2	6.6	1615.	1.00	0.	0.	30.4	70.8	359.	2 .	0.08
11.55	1554.	32.7	5.0	1225.	1.00	0.	0.	31.9	73.9	357.	23.	0.06
11.70	1526.	38.3	5.4	1328.	1.00	0.	0.	31.5	73.2	351.	25.	0.07
11.85	1489.	34.5	5.6	1386.	1.00	0.	0.	31.2	72.4	342.	25.	0.07
12.00	1456.	31.9	6.0	1478.	1.00	0.	0.	30.0	69.8	335.	26.	0.08
12.15	1466.	40.2	5.1	1260.	1.00	0.	0.	30.9	71.8	337.	23.	0.07
12.30	1400.	38.3	6.4	1579.	1.00	0.	0.	31.4	73.1	322.	29.	0.09
12.45	1416.	38.0	7.7	1886.	1.01	0.6	6.	30.5	71.2	324.	34.	0.10
12.60	1468.	39.4	7.6	1863.	1.08	5.0	45.	30.7	71.7	338.	34.	0.10
12.75	1498.	38.4	5.8	1427.	1.04	2.4	17.	30.8	71.6	345.	26.	0.07
12.90	1583.	34.5	8.1	1983.	1.00	0.	0.	31.0	72.6	364.	36.	0.10
13.05	1659.	35.4	7.6	1865.	1.02	1.2	11.	31.3	73.1	382.	34.	0.09
13.20	1736.	35.0	7.1	1747.	1.06	3.6	31.	31.5	73.6	399.	33.	0.08
13.35	1887.	31.7	7.7	1905.	1.09	5.2	49.	31.5	73.6	434.	36.	0.09
13.50	1557.	28.0	7.4	1827.	1.05	3.2	29.	29.4	68.6	358.	32.	0.09
13.65	1541.	34.6	7.3	1794.	1.06	3.7	33.	30.5	71.2	354.	32.	0.09
13.80	1529.	39.5	8.2	2012.	1.08	4.9	48.	30.8	72.0	352.	37.	0.10
13.95	1491.	40.1	8.2	2011.	1.06	3.5	34.	30.7	71.8	343.	37.	0.11
14.10	1463.	37.7	7.9	1945.	1.06	3.8	36.	30.8	72.1	336.	35.	0.11
14.25	1472.	37.5	7.9	1937.	1.12	7.3	68.	30.8	72.1	339.	35.	0.10
14.40	1448.	38.9	7.8	1924.	1.08	4.9	46.	30.7	71.8	333.	35.	0.10
14.55	1426.	36.4	8.0	1970.	1.02	1.3	13.	30.8	71.9	328.	36.	0.11
14.70	1431.	36.0	7.6	1868.	1.04	2.5	23.	30.8	72.0	329.	34.	0.10
14.85	1551.	38.6	7.7	1989.	1.01	0.8	8.	30.9	72.1	357.	34.	0.10

LOCATION- MASONBORO INLET
DATE OF TEST- 9 21 78
RUN NUMBER- 32
SEGMENT NUMBER- 1
WATER DEPTH- 14 TO 17 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.21
DISCHARGE LINE LENGTH- 2300 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1422.	28.8	7.8	1926.	1.27	16.1	151.	25.1	58.9	327.	29.	0.09
0.15	1528.	27.2	8.3	2035.	1.15	9.1	90.	25.2	59.1	352.	30.	0.09
0.30	1576.	27.6	8.6	2118.	1.11	6.9	71.	25.2	59.3	363.	32.	0.09
0.45	1474.	30.5	8.0	1956.	1.13	7.9	75.	25.3	59.3	339.	29.	0.09
0.60	1372.	33.9	7.7	1883.	1.17	10.1	92.	25.3	59.3	316.	28.	0.09
0.75	1369.	34.4	8.0	1967.	1.16	9.5	90.	25.4	59.5	315.	30.	0.09
0.90	1381.	34.9	8.3	2043.	1.10	6.3	63.	25.4	59.7	318.	31.	0.10
1.05	1346.	33.8	8.1	2002.	1.29	17.4	169.	25.5	59.8	310.	30.	0.10
1.20	1305.	32.6	7.7	1888.	1.21	12.9	119.	25.5	59.8	300.	29.	0.10
1.35	1347.	28.8	7.9	1932.	1.15	9.2	86.	25.6	59.9	310.	29.	0.09
1.50	1389.	27.1	7.9	1938.	1.11	6.5	61.	25.6	60.1	319.	29.	0.09
1.65	1411.	28.5	7.8	1915.	1.12	7.4	69.	25.7	60.2	324.	29.	0.09
1.80	1629.	27.7	7.2	1762.	1.17	10.3	88.	25.7	60.1	375.	27.	0.07
1.95	1557.	28.3	7.4	1830.	1.14	8.3	74.	25.8	60.3	358.	28.	0.08
2.10	1425.	29.5	8.0	1956.	1.10	6.3	60.	25.8	60.6	328.	30.	0.09
2.25	1378.	32.3	7.3	1807.	1.09	5.6	49.	25.9	60.5	317.	28.	0.09
2.40	1374.	34.2	7.4	1817.	1.26	15.5	137.	25.9	60.7	316.	28.	0.09
2.55	1363.	34.8	7.7	1893.	1.15	9.1	83.	26.0	60.9	314.	29.	0.09
2.70	1392.	30.5	8.0	1975.	1.13	7.6	73.	26.0	61.1	320.	31.	0.10
2.85	1343.	30.4	7.0	1719.	1.36	22.0	184.	26.1	60.9	309.	27.	0.09
3.00	1249.	32.1	6.2	1537.	1.35	20.9	156.	26.2	61.0	287.	24.	0.08
3.15	1335.	33.3	7.1	1756.	1.25	14.9	127.	26.3	61.4	307.	27.	0.09
3.30	1574.	30.6	7.1	1742.	1.34	20.4	172.	26.3	61.5	362.	27.	0.08
3.45	1663.	28.4	6.8	1668.	1.36	21.9	177.	26.4	61.7	382.	26.	0.07
3.60	1617.	23.9	7.1	1749.	1.34	20.6	175.	26.5	61.9	372.	28.	0.07
3.75	1348.	28.5	7.3	1783.	1.22	13.1	114.	26.6	62.2	310.	28.	0.09
3.90	1351.	35.3	6.2	1535.	1.09	5.6	42.	26.7	62.1	311.	24.	0.08
4.05	1364.	36.1	5.1	1243.	1.02	1.0	6.	26.8	62.1	314.	20.	0.06
4.20	1367.	35.1	5.8	1438.	1.06	3.6	25.	26.8	62.5	314.	23.	0.07
4.35	1340.	34.5	7.2	1764.	1.23	14.0	120.	26.9	62.9	308.	29.	0.09
4.50	1310.	34.4	6.7	1658.	1.35	21.1	170.	27.0	63.0	301.	27.	0.09
4.65	1333.	33.8	7.6	1858.	1.32	19.5	176.	27.1	63.4	307.	30.	0.10
4.80	1379.	33.2	8.0	1957.	1.24	14.3	136.	27.2	63.7	317.	32.	0.10

RUN NUMBER- 32
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1468.	30.7	9.0	1962.	1.14	8.6	82.	27.3	63.9	338.	32.	0.09
5.10	1641.	29.1	7.2	1781.	1.21	13.0	112.	27.3	63.9	378.	29.	0.08
5.25	1402.	29.3	6.4	1581.	1.24	14.3	110.	27.4	63.9	322.	26.	0.08
5.40	1382.	34.4	6.8	1671.	1.17	10.2	82.	27.5	64.2	318.	27.	0.09
5.55	1358.	35.7	7.2	1777.	1.10	6.2	53.	27.6	64.4	312.	29.	0.09
5.70	1338.	35.3	7.0	1712.	1.16	9.5	79.	27.7	64.6	308.	28.	0.09
5.85	1324.	34.8	6.5	1594.	1.24	14.3	110.	27.7	64.6	304.	26.	0.09
6.00	1303.	34.5	7.5	1836.	1.16	9.7	86.	27.8	65.0	300.	30.	0.10
6.15	1309.	33.7	7.9	1934.	1.11	6.8	64.	27.9	65.3	301.	32.	0.11
6.30	1382.	31.8	6.6	1626.	1.24	14.8	117.	28.0	65.2	318.	27.	0.08
6.45	1452.	31.0	6.6	1614.	1.24	14.4	113.	28.0	65.4	334.	27.	0.08
6.60	1596.	29.9	6.9	1687.	1.16	10.0	82.	28.1	65.6	367.	28.	0.08
6.75	1566.	29.5	6.9	1700.	1.11	6.5	53.	28.2	65.8	360.	28.	0.08
6.90	1413.	31.8	6.7	1653.	1.15	8.9	72.	28.3	65.9	325.	28.	0.08
7.05	1363.	34.5	6.4	1578.	1.21	12.7	98.	28.4	66.1	314.	26.	0.08
7.20	1346.	35.9	7.1	1737.	1.18	10.6	89.	28.4	66.4	310.	29.	0.09
7.35	1330.	35.9	6.6	1633.	1.14	8.5	67.	28.5	66.5	306.	27.	0.09
7.50	1316.	35.1	6.2	1515.	1.20	12.1	89.	28.6	66.5	303.	26.	0.08
7.65	1296.	34.9	6.8	1665.	1.20	12.2	98.	28.7	66.8	298.	28.	0.09
7.80	1285.	33.6	6.9	1694.	1.13	7.6	62.	28.7	67.0	296.	29.	0.10
7.95	1454.	31.9	6.6	1617.	1.18	10.6	84.	28.8	67.0	334.	27.	0.08
8.10	1561.	30.9	6.4	1578.	1.23	14.0	107.	28.8	67.1	359.	27.	0.07
8.25	1627.	30.8	6.4	1583.	1.16	9.5	73.	28.9	67.2	374.	27.	0.07
8.40	1692.	30.9	6.5	1595.	1.08	5.1	40.	28.9	67.3	389.	27.	0.07
8.55	1370.	35.2	6.5	1596.	1.13	7.9	62.	28.9	67.4	315.	27.	0.09
8.70	1360.	37.1	6.1	1499.	1.18	11.0	80.	29.0	67.5	313.	26.	0.08
8.85	1351.	37.0	6.3	1559.	1.14	8.4	64.	29.0	67.6	311.	27.	0.09
9.00	1331.	36.5	6.5	1598.	1.17	10.3	80.	29.1	67.7	306.	27.	0.09
9.15	1326.	35.9	5.9	1441.	1.23	14.2	100.	29.1	67.7	305.	25.	0.08
9.30	1278.	35.8	6.0	1472.	1.23	13.8	98.	29.2	67.9	294.	25.	0.09
9.45	1343.	35.3	6.7	1636.	1.18	10.6	84.	29.2	68.1	309.	28.	0.09
9.60	1463.	33.4	6.3	1541.	1.24	14.6	109.	29.3	68.1	336.	27.	0.08
9.75	1583.	31.3	6.0	1472.	1.28	16.8	120.	29.3	68.2	364.	25.	0.07
9.90	1664.	30.7	6.4	1564.	1.21	12.7	96.	29.4	68.4	383.	27.	0.07
10.05	1486.	30.7	6.7	1643.	1.23	14.2	113.	29.4	68.6	340.	29.	0.08
10.20	1370.	35.8	6.1	1508.	1.26	15.8	115.	29.5	68.6	315.	26.	0.08
10.35	1347.	37.6	5.6	1389.	1.26	15.6	105.	29.6	68.7	313.	24.	0.08
10.50	1329.	37.2	6.4	1567.	1.22	13.2	100.	29.6	69.0	306.	27.	0.09
10.65	1318.	37.1	6.4	1568.	1.21	12.6	96.	29.7	69.2	303.	27.	0.09

RUN NUMBER- 32
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1298.	36.4	6.0	1463.	1.33	20.1	143.	29.8	69.3	299.	26.	0.09
10.95	1306.	35.1	6.1	1502.	1.28	17.3	126.	29.9	69.5	300.	26.	0.09
11.10	1467.	33.8	6.3	1540.	1.21	12.8	96.	29.9	69.6	337.	27.	0.08
11.25	1559.	32.6	6.4	1569.	1.23	13.7	105.	30.0	69.8	359.	28.	0.08
11.40	1666.	31.6	6.1	1495.	1.27	16.3	119.	30.1	69.9	383.	26.	0.07
11.55	1648.	31.5	5.7	1398.	1.22	13.4	91.	30.1	70.0	379.	25.	0.07
11.70	1384.	33.7	5.9	1455.	1.23	14.2	101.	30.2	70.2	318.	26.	0.08
11.85	1356.	38.0	6.0	1468.	1.24	14.7	105.	30.3	70.4	312.	26.	0.08
12.00	1344.	37.8	5.6	1366.	1.24	14.7	97.	30.3	70.5	309.	24.	0.08
12.15	1336.	36.0	5.7	1395.	1.21	13.0	89.	30.4	70.6	307.	25.	0.08
12.30	1324.	37.1	6.8	1668.	1.19	11.4	92.	30.5	71.0	305.	30.	0.10
12.45	1312.	36.2	6.4	1570.	1.24	14.5	111.	30.5	71.0	302.	28.	0.09
12.60	1372.	35.2	5.5	1341.	1.24	14.8	96.	30.6	71.0	316.	24.	0.08
12.75	1465.	34.1	5.9	1448.	1.20	12.0	84.	30.6	71.2	337.	26.	0.08
12.90	1579.	33.0	6.3	1557.	1.19	11.2	85.	30.7	71.4	363.	28.	0.08
13.05	1706.	31.6	6.4	1579.	1.19	11.3	86.	30.8	71.6	392.	29.	0.07
13.20	1443.	32.9	5.7	1404.	1.16	10.0	68.	30.8	71.6	332.	25.	0.08
13.35	1387.	38.1	6.2	1524.	1.15	9.2	68.	30.9	71.8	319.	28.	0.09
13.50	1350.	38.6	6.6	1630.	1.16	9.9	78.	30.9	72.1	311.	30.	0.10
13.65	1341.	37.7	6.2	1514.	1.18	11.0	81.	31.0	72.1	308.	28.	0.09
13.80	1338.	37.5	6.1	1504.	1.19	11.4	83.	31.0	72.2	308.	27.	0.09
13.95	1302.	36.6	6.8	1662.	1.20	12.1	98.	31.1	72.4	300.	31.	0.10
14.10	1311.	36.0	6.5	1604.	1.23	13.9	108.	31.1	72.5	301.	29.	0.10
14.25	1381.	35.0	6.0	1466.	1.20	12.3	87.	31.2	72.5	318.	27.	0.08
14.40	1470.	33.0	5.9	1449.	1.19	11.7	82.	31.2	72.6	338.	27.	0.08
14.55	1630.	31.8	6.3	1546.	1.16	9.6	72.	31.3	72.8	375.	29.	0.08
14.70	1505.	31.7	6.4	1580.	1.16	9.6	73.	31.4	73.0	346.	29.	0.08
14.85	1359.	34.6	6.0	1467.	1.16	9.8	70.	31.4	73.0	313.	27.	0.09
15.00	1355.	36.9	6.0	1472.	1.17	10.0	72.	31.5	73.1	312.	27.	0.09
15.15	1339.	37.7	6.8	1677.	1.20	11.9	97.	31.5	73.4	308.	31.	0.10
15.30	1328.	37.8	6.2	1513.	1.20	12.2	90.	31.6	73.4	305.	28.	0.09
15.45	1312.	37.4	5.7	1393.	1.20	12.0	81.	31.6	73.4	302.	26.	0.09
15.60	1297.	36.3	5.7	1403.	1.23	13.8	94.	31.6	73.5	298.	26.	0.09
15.75	1321.	35.5	6.1	1500.	1.22	13.0	95.	31.6	73.4	304.	28.	0.09
15.90	1420.	33.2	5.7	1404.	1.20	12.3	84.	31.5	73.2	327.	26.	0.08
16.05	1595.	30.9	5.6	1366.	1.19	11.4	75.	31.5	73.0	367.	25.	0.07
16.20	1673.	31.3	5.8	1415.	1.17	10.4	72.	31.4	72.9	385.	26.	0.07
16.35	1373.	32.9	6.4	1564.	1.18	10.9	83.	31.3	72.9	316.	29.	0.09
16.50	1363.	35.8	5.8	1433.	1.17	10.2	71.	31.3	72.7	313.	26.	0.08

RUN NUMBER- 32
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.55	1336.	39.2	5.7	1394.	1.16	9.7	66.	31.2	72.5	307.	26.	0.08
16.80	1319.	38.0	6.0	1472.	1.24	14.6	104.	31.1	72.4	303.	27.	0.09
16.95	1315.	38.4	5.7	1405.	1.21	12.6	86.	31.1	72.2	302.	26.	0.08
17.10	1317.	36.3	5.3	1309.	1.21	12.7	81.	31.2	72.5	303.	24.	0.08
17.25	1308.	32.2	5.0	1240.	1.24	14.5	87.	30.6	71.0	301.	22.	0.07
17.40	1361.	34.8	5.2	1279.	1.25	15.0	93.	30.7	71.2	313.	23.	0.07
17.55	1490.	34.4	5.6	1365.	1.22	13.0	86.	31.0	71.9	343.	25.	0.07
17.70	1772.	27.8	5.1	1261.	1.20	12.0	73.	29.8	69.2	407.	22.	0.05
17.85	1636.	27.9	4.9	1212.	1.18	10.8	63.	28.5	66.1	376.	20.	0.05
18.00	1349.	33.9	4.9	1207.	1.24	14.7	86.	30.0	69.6	310.	21.	0.07
18.15	1354.	38.9	4.8	1171.	1.22	13.6	77.	30.5	70.7	312.	21.	0.07
18.30	1314.	39.7	4.4	1085.	1.23	13.8	73.	30.6	70.9	302.	19.	0.06
18.45	1310.	35.2	4.3	1065.	1.25	15.0	78.	30.7	71.1	301.	19.	0.06
18.60	1281.	37.1	4.5	1107.	1.26	15.8	85.	30.8	71.3	295.	20.	0.07
18.75	1307.	36.4	4.7	1150.	1.29	17.5	98.	30.8	71.5	301.	21.	0.07
18.90	1350.	34.0	4.4	1083.	1.28	16.8	88.	30.9	71.6	311.	20.	0.06
19.05	1404.	32.6	4.4	1078.	1.24	14.3	75.	31.0	71.8	323.	20.	0.06
19.20	1509.	33.1	4.4	1078.	1.21	12.7	66.	31.1	72.0	347.	20.	0.06
19.35	1677.	31.4	4.4	1078.	1.22	13.1	68.	29.7	68.8	386.	19.	0.05
19.50	1572.	28.7	4.6	1133.	1.21	13.0	71.	27.6	64.1	362.	18.	0.05
19.65	1359.	34.6	4.9	1193.	1.21	12.5	72.	30.1	69.7	313.	21.	0.07
19.80	1361.	38.7	5.1	1253.	1.24	14.8	90.	30.6	70.9	313.	22.	0.07
19.95	1333.	39.2	4.6	1143.	1.25	15.3	85.	30.6	71.0	307.	21.	0.07
20.10	1306.	35.0	4.4	1080.	1.25	15.0	79.	30.7	71.0	300.	19.	0.06
20.25	1300.	37.4	4.4	1086.	1.24	14.5	76.	30.7	71.2	299.	20.	0.07
20.40	1321.	36.8	4.6	1143.	1.25	15.3	85.	30.8	71.3	304.	21.	0.07
20.55	1419.	33.8	4.5	1116.	1.25	14.9	81.	30.8	71.4	326.	20.	0.06
20.70	1465.	32.3	4.6	1124.	1.21	12.5	68.	30.9	71.6	337.	20.	0.06
20.85	1644.	32.6	5.2	1280.	1.17	10.5	66.	31.0	72.0	378.	23.	0.06
21.00	1664.	31.1	5.1	1266.	1.24	14.6	90.	31.2	72.3	383.	23.	0.06
21.15	1495.	32.9	4.7	1148.	1.21	12.6	70.	29.3	67.9	344.	20.	0.06
21.30	1344.	38.5	4.9	1207.	1.21	12.5	73.	29.9	69.3	309.	21.	0.07
21.45	1335.	39.3	4.7	1164.	1.26	15.7	89.	30.7	71.3	307.	21.	0.07
21.60	1314.	39.5	4.5	1097.	1.27	16.1	86.	30.9	71.5	302.	20.	0.07
21.75	1296.	36.6	4.2	1036.	1.24	14.6	74.	30.8	71.4	298.	19.	0.06
21.90	1286.	35.8	4.3	1063.	1.23	13.9	72.	30.8	71.3	296.	19.	0.06
22.05	1342.	37.0	4.7	1150.	1.24	14.6	82.	30.7	71.2	329.	21.	0.07
22.20	1414.	34.3	4.5	1101.	1.24	14.3	77.	30.7	71.1	325.	20.	0.06
22.35	1493.	30.6	4.3	1060.	1.19	11.6	60.	30.6	70.9	343.	19.	0.06

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1608.	32.0	5.3	1296.	1.18	11.0	69.	30.6	71.0	370.	23.	0.06
22.65	1618.	32.4	4.9	1205.	1.24	14.5	85.	30.6	71.0	372.	22.	0.06
22.80	1350.	32.7	4.6	1135.	1.21	12.9	71.	30.6	70.9	310.	20.	0.07
22.95	1316.	37.8	4.7	1153.	1.25	12.1	68.	30.6	71.0	303.	21.	0.07
23.10	1319.	38.8	5.0	1233.	1.22	13.0	78.	30.6	71.0	303.	22.	0.07
23.25	1313.	39.0	4.9	1210.	1.26	15.5	91.	30.6	71.0	302.	22.	0.07
23.40	1286.	38.7	4.6	1123.	1.25	15.0	82.	30.6	71.0	296.	20.	0.07
23.55	1313.	34.0	4.7	1160.	1.23	14.1	80.	30.6	71.0	302.	21.	0.07
23.70	1465.	35.9	4.9	1194.	1.21	12.8	74.	30.6	71.0	337.	21.	0.06
23.85	1575.	32.9	5.0	1228.	1.24	14.7	87.	29.3	68.1	362.	21.	0.06
24.00	1498.	26.3	4.6	1137.	1.20	11.9	66.	27.7	64.3	345.	18.	0.05
24.15	1528.	30.0	4.8	1188.	1.20	12.2	70.	29.7	68.8	351.	21.	0.06
24.30	1396.	33.0	5.1	1265.	1.17	10.1	62.	30.7	71.1	321.	23.	0.07
24.45	1372.	37.5	4.8	1169.	1.04	2.6	15.	31.0	71.8	316.	21.	0.07
24.60	1322.	35.6	4.6	1141.	1.02	1.1	6.	31.0	71.9	304.	21.	0.07
24.75	1303.	37.7	4.9	1214.	1.24	14.4	85.	31.0	72.0	300.	22.	0.07
24.90	1357.	39.3	4.7	1149.	1.27	16.6	93.	31.1	72.1	312.	21.	0.07
25.05	1307.	39.3	4.5	1096.	1.16	9.9	53.	31.1	72.1	301.	20.	0.07
25.20	1214.	30.4	5.2	1269.	1.07	4.1	26.	31.2	72.3	279.	23.	0.08
25.35	1249.	34.3	5.0	1236.	1.03	1.9	11.	31.2	72.4	287.	23.	0.08
25.50	1414.	37.9	4.6	1135.	1.02	1.4	8.	31.2	72.4	325.	21.	0.06
25.65	1551.	34.4	4.4	1072.	1.02	1.0	5.	31.3	72.4	357.	20.	0.06
25.80	1661.	32.1	4.2	1040.	1.01	0.7	4.	31.3	72.5	382.	19.	0.05
25.95	1396.	35.0	5.2	1290.	1.02	1.5	9.	31.4	72.9	321.	24.	0.07
26.10	1363.	38.8	5.3	1315.	1.16	9.8	63.	31.6	73.3	314.	24.	0.08
26.25	1355.	39.5	5.6	1373.	1.15	9.0	60.	31.7	73.7	312.	25.	0.08
26.40	1341.	39.2	5.9	1440.	1.13	7.9	55.	31.9	74.1	308.	27.	0.09
26.55	1311.	39.0	6.1	1504.	1.21	12.7	93.	32.0	74.5	302.	28.	0.09
26.70	1290.	37.8	6.0	1487.	1.26	15.6	113.	32.2	74.8	297.	28.	0.09
26.85	1335.	37.2	5.5	1360.	1.21	12.6	83.	32.3	75.0	307.	26.	0.08
27.00	1390.	36.5	5.7	1412.	1.20	12.2	83.	32.5	75.4	320.	27.	0.08
27.15	1500.	33.8	6.1	1503.	1.22	13.5	98.	32.2	74.8	345.	28.	0.08
27.30	1526.	30.9	5.9	1448.	1.25	15.0	105.	30.9	71.8	351.	26.	0.08
27.45	1808.	31.8	5.1	1253.	1.22	13.5	82.	30.8	71.4	416.	23.	0.05
27.60	1477.	36.1	5.7	1400.	1.28	16.9	115.	31.4	72.9	340.	26.	0.08
27.75	1354.	39.4	5.7	1403.	1.36	21.9	149.	31.6	73.5	312.	26.	0.08
27.90	1335.	38.8	5.2	1276.	1.35	21.5	133.	31.5	73.1	307.	24.	0.08
28.05	1300.	33.3	4.9	1200.	1.24	14.3	83.	31.4	72.8	299.	22.	0.07
28.20	1338.	37.7	4.9	1197.	1.27	16.6	96.	31.0	71.9	308.	22.	0.07

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1317.	38.1	5.0	1219.	1.32	19.4	115.	30.6	71.0	303.	22.	0.07
28.50	1337.	34.4	4.8	1170.	1.28	16.8	96.	30.7	71.3	308.	21.	0.07
28.65	1413.	34.5	4.7	1160.	1.24	14.3	80.	31.2	72.3	325.	21.	0.07
28.80	1473.	33.7	4.7	1165.	1.21	12.7	72.	31.6	73.3	339.	22.	0.06
28.95	1529.	31.7	5.1	1247.	1.33	20.2	122.	30.3	70.2	352.	22.	0.06
29.10	1585.	29.5	4.9	1214.	1.25	15.3	90.	28.6	66.4	364.	20.	0.06
29.25	1327.	36.6	4.7	1157.	1.22	13.2	74.	29.8	69.1	305.	20.	0.07
29.40	1345.	39.1	5.1	1250.	1.52	31.7	193.	31.4	72.9	309.	23.	0.07
29.55	1346.	38.7	4.8	1186.	1.39	23.4	135.	31.5	73.1	310.	22.	0.07
29.70	1309.	39.1	4.7	1155.	1.32	19.5	109.	31.7	73.4	301.	21.	0.07
29.85	1301.	38.1	4.8	1169.	1.28	17.0	97.	31.6	73.3	299.	22.	0.07
30.00	1328.	37.3	5.1	1247.	1.51	30.7	186.	31.5	73.0	305.	23.	0.08
30.15	1490.	33.3	5.0	1229.	1.46	27.6	165.	31.3	72.7	343.	23.	0.07
30.30	1519.	31.2	4.6	1123.	1.23	14.1	77.	31.2	72.3	349.	21.	0.06
30.45	1609.	32.5	4.4	1079.	1.24	14.7	77.	31.0	71.9	370.	20.	0.05
30.60	1634.	31.9	4.5	1099.	1.32	19.7	105.	30.9	71.6	376.	20.	0.05
30.75	1359.	32.1	4.2	1034.	1.28	17.0	85.	30.9	71.5	313.	19.	0.06
30.90	1283.	33.7	4.0	980.	1.26	16.0	76.	31.0	71.7	295.	18.	0.06
31.05	1267.	37.2	4.2	1028.	1.02	0.9	5.	31.1	72.0	291.	19.	0.06
31.20	1321.	39.2	3.8	938.	1.01	0.4	2.	30.4	70.4	304.	17.	0.05
31.35	1246.	35.4	3.9	956.	1.00	0.	0.	29.4	68.1	287.	16.	0.06
31.50	1217.	32.0	4.1	1016.	1.02	1.1	6.	32.1	74.3	280.	19.	0.07
31.65	1234.	36.1	4.3	1064.	1.01	0.7	3.	32.1	74.3	284.	20.	0.07
31.80	1260.	36.9	4.4	1079.	1.01	0.4	2.	31.2	72.3	290.	20.	0.07
31.95	1509.	22.8	4.4	1091.	1.01	0.3	2.	27.5	63.8	347.	18.	0.05
32.10	1504.	30.1	4.4	1084.	1.01	0.5	3.	27.9	64.7	346.	18.	0.05
32.25	1436.	33.0	4.3	1060.	1.01	0.5	3.	30.3	70.2	330.	19.	0.06
32.40	1415.	38.8	4.3	1057.	1.01	0.4	2.	31.4	72.7	326.	19.	0.06
32.55	1377.	39.3	4.4	1078.	1.12	7.1	37.	31.7	73.3	317.	20.	0.06
32.70	1359.	39.5	5.0	1224.	1.26	15.6	93.	31.8	73.7	312.	23.	0.07
32.85	1340.	38.9	5.1	1258.	1.10	5.9	36.	31.7	73.6	308.	23.	0.08
33.00	1314.	38.8	5.1	1264.	1.24	14.5	89.	31.7	73.5	302.	24.	0.08
33.15	1297.	39.0	5.9	1449.	1.16	9.8	69.	31.6	73.4	298.	27.	0.09
33.30	1315.	35.7	6.6	1623.	1.15	9.3	74.	31.5	73.4	302.	30.	0.10
33.45	1397.	32.6	6.3	1558.	1.14	8.4	63.	30.9	71.8	321.	28.	0.09
33.60	1705.	26.7	5.9	1447.	1.11	6.7	47.	28.2	65.7	392.	24.	0.06
33.75	1641.	29.8	5.4	1328.	1.15	8.9	57.	29.3	68.1	377.	23.	0.06
33.90	1459.	34.3	5.6	1371.	1.20	12.1	80.	31.0	72.0	336.	25.	0.07
34.05	1368.	38.2	5.9	1448.	1.21	12.9	91.	32.4	75.2	315.	28.	0.09

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1287.	32.9	5.5	1354.	1.23	13.8	90.	30.2	70.1	296.	24.	0.08
34.35	1266.	33.1	5.7	1412.	1.16	9.8	67.	29.7	69.1	291.	25.	0.08
34.50	1322.	36.2	5.2	1274.	1.05	3.1	19.	30.3	70.2	304.	23.	0.07
34.65	1319.	34.4	4.6	1137.	1.02	1.0	5.	28.3	65.7	303.	19.	0.06
34.80	1299.	28.0	4.4	1078.	1.01	0.7	4.	27.8	64.5	299.	18.	0.06
34.95	1302.	33.8	4.3	1050.	1.01	0.4	2.	30.9	69.6	299.	18.	0.06
35.10	1413.	35.4	4.4	1091.	1.00	0.	0.	30.9	71.5	325.	20.	0.06
35.25	1433.	22.4	5.0	1221.	1.00	0.	0.	28.2	65.5	330.	20.	0.06
35.40	1395.	24.9	4.6	1123.	1.00	0.	0.	27.3	63.2	321.	18.	0.06
35.55	1348.	32.5	4.4	1070.	1.00	0.	0.	28.5	66.1	310.	18.	0.06
35.70	1384.	38.3	4.2	1040.	1.00	0.	0.	30.2	69.8	318.	18.	0.06
35.85	1353.	38.9	4.1	1020.	1.00	0.	0.	30.7	71.0	311.	18.	0.06
36.00	1336.	37.2	5.5	1344.	1.10	6.2	41.	30.7	71.2	307.	24.	0.08
36.15	1329.	37.1	5.4	1328.	1.26	15.9	102.	30.7	71.2	306.	24.	0.08
36.30	1251.	36.7	5.7	1391.	1.18	10.8	73.	30.7	71.4	288.	25.	0.09
36.45	1332.	39.1	5.9	1458.	1.13	7.8	55.	31.0	72.0	306.	27.	0.09
36.60	1461.	34.8	5.4	1579.	1.11	6.4	49.	30.2	70.2	336.	28.	0.08
36.75	1652.	30.4	6.9	1695.	1.16	9.4	77.	29.8	69.4	380.	30.	0.09
36.90	1655.	30.1	6.6	1613.	1.15	9.2	72.	29.8	69.4	381.	28.	0.07
37.05	1389.	32.6	6.5	1591.	1.10	6.3	49.	30.9	71.9	319.	29.	0.09
37.20	1372.	36.3	6.9	1695.	1.11	6.6	54.	31.4	73.1	316.	31.	0.10
37.35	1354.	36.6	7.0	1725.	1.08	4.8	40.	31.0	72.4	311.	32.	0.10
37.50	1332.	36.0	7.2	1769.	1.11	6.5	56.	30.4	71.0	306.	32.	0.10
37.65	1309.	36.0	7.6	1877.	1.12	7.1	65.	30.1	70.4	301.	33.	0.11
37.80	1299.	35.3	8.0	1960.	1.23	14.2	135.	30.1	70.3	299.	35.	0.12
37.95	1315.	33.8	6.5	1592.	1.16	9.4	73.	30.0	69.9	302.	28.	0.09
38.10	1360.	33.4	6.6	1628.	1.14	8.6	68.	30.0	69.9	313.	29.	0.09
38.25	1424.	31.1	6.7	1646.	1.13	7.9	63.	30.0	69.8	328.	29.	0.09
38.40	1608.	31.0	7.0	1724.	1.14	8.7	73.	29.9	69.8	370.	30.	0.08
38.55	1363.	32.2	6.1	1505.	1.20	12.3	90.	29.9	69.5	313.	27.	0.08
38.70	1349.	35.5	6.7	1636.	1.13	8.0	63.	29.9	69.6	313.	29.	0.09
38.85	1339.	36.9	6.8	1677.	1.23	13.8	113.	29.8	69.5	308.	30.	0.10
39.00	1324.	36.9	5.9	1443.	1.31	18.7	131.	29.8	69.3	305.	25.	0.08
39.15	1310.	36.9	6.0	1480.	1.19	11.4	82.	29.8	69.2	301.	26.	0.09
39.30	1302.	36.1	6.4	1573.	1.13	8.1	62.	29.7	69.2	299.	28.	0.09
39.45	1308.	35.3	6.5	1591.	1.21	12.6	97.	29.7	69.2	301.	28.	0.09
39.60	1365.	34.5	6.0	1478.	1.21	12.7	91.	29.7	69.0	314.	26.	0.08
39.75	1477.	33.1	5.8	1419.	1.15	8.8	61.	29.6	68.9	340.	25.	0.07
39.90	1591.	32.0	6.2	1533.	1.13	7.6	56.	29.6	68.9	366.	27.	0.07

RUN NUMBER- 32
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1689.	31.2	6.6	1614.	1.16	9.9	78.	29.6	68.9	388.	28.	0.07
40.20	1411.	37.5	5.0	1242.	1.22	13.2	79.	29.6	68.8	325.	22.	0.07
40.35	1336.	38.5	5.6	1372.	1.12	7.1	47.	30.1	69.8	307.	24.	0.08
40.50	1323.	39.4	6.2	1517.	1.12	7.5	55.	30.2	70.3	304.	27.	0.09
40.65	1312.	38.3	6.6	1628.	1.25	15.1	119.	30.3	70.5	302.	29.	0.10
40.80	1298.	37.3	5.8	1434.	1.13	8.1	57.	30.3	70.4	299.	26.	0.09
40.95	1292.	36.4	6.1	1510.	1.13	8.0	59.	30.3	70.6	297.	27.	0.09
41.10	1292.	35.1	6.8	1666.	1.16	10.0	81.	30.4	70.8	297.	30.	0.10
41.25	1334.	33.6	6.4	1583.	1.22	13.4	103.	30.4	70.8	307.	28.	0.09
41.40	1478.	32.0	5.9	1440.	1.17	10.1	71.	30.5	70.8	340.	26.	0.08
41.55	1641.	29.0	5.9	1462.	1.14	8.7	62.	30.5	70.9	377.	25.	0.07
41.70	1484.	31.5	6.6	1635.	1.19	11.7	93.	30.5	71.1	341.	29.	0.09
41.85	1343.	34.9	6.0	1464.	1.24	14.5	103.	30.5	71.0	309.	26.	0.09
42.00	1334.	37.0	5.8	1433.	1.15	9.3	65.	30.1	70.1	307.	25.	0.08
42.15	1357.	33.7	6.2	1535.	1.19	11.6	86.	29.7	69.1	312.	27.	0.09
42.30	1259.	34.8	6.7	1657.	1.30	18.0	145.	29.9	69.6	289.	29.	0.10
42.45	1273.	36.2	6.0	1471.	1.26	15.9	113.	30.2	70.2	293.	26.	0.09
42.60	1274.	36.3	6.5	1607.	1.21	12.5	97.	30.5	71.0	293.	29.	0.10
42.75	1412.	35.5	5.6	1388.	1.22	13.4	90.	30.2	70.1	325.	25.	0.08
42.90	1460.	34.7	6.3	1552.	1.19	11.2	84.	29.9	69.7	336.	27.	0.08
43.05	1561.	31.5	6.3	1542.	1.13	7.9	59.	29.9	69.7	359.	27.	0.08
43.20	1695.	30.9	7.0	1727.	1.10	6.0	51.	29.9	69.8	390.	31.	0.08
43.35	1446.	31.2	7.0	1728.	1.15	9.1	76.	29.9	69.8	333.	31.	0.09
43.50	1337.	36.6	7.0	1727.	1.26	15.5	130.	29.9	69.8	307.	31.	0.10
43.65	1321.	37.3	7.2	1768.	1.15	8.9	76.	30.0	70.1	304.	31.	0.10
43.80	1328.	37.9	7.2	1769.	1.16	9.5	82.	30.2	70.4	306.	32.	0.10
43.95	1310.	36.3	7.3	1787.	1.20	12.1	105.	30.2	70.4	301.	32.	0.11
44.10	1274.	36.0	6.6	1634.	1.17	10.1	81.	30.0	69.8	293.	29.	0.10
44.25	1270.	35.7	6.8	1680.	1.14	8.5	70.	29.7	69.3	292.	29.	0.10
44.40	1336.	35.1	7.1	1738.	1.22	13.1	110.	29.7	69.3	307.	31.	0.10
44.55	1435.	33.7	6.9	1694.	1.33	19.8	163.	29.8	69.5	330.	33.	0.09
44.70	1608.	31.9	6.6	1619.	1.21	12.7	100.	29.9	69.6	370.	29.	0.08
44.85	1590.	30.4	6.8	1665.	1.12	7.1	57.	29.9	69.8	366.	29.	0.08
45.00	1343.	34.7	6.9	1706.	1.14	8.5	70.	30.1	70.3	309.	30.	0.10
45.15	1334.	37.3	6.9	1699.	1.21	13.0	107.	30.5	71.2	307.	31.	0.10
45.30	1321.	38.1	6.7	1653.	1.31	19.0	152.	30.9	71.9	304.	30.	0.10

LOCATION- MASONBORO INLET
DATE OF TEST- 9 21 78
RUN NUMBER- 32
SEGMENT NUMBER- 2
WATER DEPTH- 14 TO 17 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	43.	5.2	0.3	71.	1.01	0.3	0.	4.0	9.2	17.	0.	0.02
0.15	77.	6.7	0.3	80.	1.00	0.	0.	4.0	9.2	18.	0.	0.01
0.30	115.	9.4	0.4	89.	1.00	0.	0.	5.0	11.4	26.	0.	0.01
0.45	154.	11.8	0.3	85.	1.00	0.	0.	5.0	11.5	35.	0.	0.01
0.60	190.	13.4	0.3	80.	1.01	0.3	0.	5.4	12.4	44.	0.	0.01
0.75	259.	13.6	0.4	87.	1.01	0.4	0.	5.4	12.4	60.	0.	0.00
0.90	367.	13.3	0.5	115.	1.01	0.4	0.	5.2	12.0	84.	0.	0.00
1.05	378.	13.2	2.6	628.	1.01	0.3	1.	5.3	12.3	87.	2.	0.02
1.20	361.	12.8	3.3	822.	1.01	0.4	2.	5.0	11.8	83.	2.	0.03
1.35	423.	14.2	4.4	1088.	1.01	0.5	3.	4.8	11.3	97.	3.	0.03
1.50	466.	15.2	5.3	1307.	1.01	0.5	3.	4.6	11.0	107.	4.	0.03
1.65	511.	15.8	7.2	1774.	1.01	0.5	4.	4.6	11.4	118.	5.	0.04
1.80	568.	16.5	7.2	1775.	1.03	1.8	16.	4.7	11.6	131.	5.	0.04
1.95	648.	17.5	8.1	1993.	1.03	2.1	20.	5.0	12.5	149.	6.	0.04
2.10	791.	18.5	8.3	2040.	1.03	2.0	20.	5.0	12.6	182.	6.	0.04
2.25	821.	19.5	8.4	2066.	1.03	2.0	20.	4.8	12.2	189.	6.	0.03
2.40	859.	19.6	8.7	2145.	1.03	1.7	17.	4.7	12.1	197.	7.	0.03
2.55	902.	17.5	9.0	2225.	1.03	1.6	17.	4.7	12.2	208.	7.	0.03
2.70	934.	18.9	9.2	2254.	1.03	1.7	19.	4.8	12.3	215.	7.	0.03
2.85	890.	21.7	9.0	2222.	1.03	1.8	20.	4.7	12.1	205.	7.	0.03
3.00	871.	23.5	9.1	2236.	1.03	1.8	19.	4.5	11.7	200.	7.	0.03
3.15	859.	23.9	9.2	2262.	1.03	1.8	20.	4.4	11.4	198.	7.	0.03
3.30	848.	22.7	9.1	2248.	1.03	1.8	20.	4.2	11.0	195.	6.	0.03
3.45	839.	20.7	8.7	2143.	1.03	1.8	18.	4.1	10.6	193.	6.	0.03
3.60	851.	20.2	8.6	2112.	1.03	1.8	18.	4.2	10.8	196.	6.	0.03
3.75	869.	19.9	8.5	2083.	1.03	1.7	17.	4.4	11.2	200.	6.	0.03
3.90	885.	19.1	8.1	1990.	1.03	1.6	15.	4.5	11.3	203.	6.	0.03
4.05	915.	18.1	8.0	1971.	1.03	1.7	16.	4.6	11.6	210.	6.	0.03
4.20	951.	17.3	8.1	1989.	1.03	1.6	16.	4.7	11.8	219.	6.	0.03
4.35	893.	17.2	8.0	1979.	1.03	1.6	16.	4.8	12.0	205.	6.	0.03
4.50	835.	18.4	8.0	1970.	1.03	1.7	16.	4.9	12.2	192.	6.	0.03
4.65	853.	20.7	8.0	1975.	1.03	1.7	16.	5.0	12.5	196.	6.	0.03
4.80	834.	21.3	8.1	1983.	1.03	1.6	16.	5.1	12.7	192.	6.	0.03

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	845.	21.4	8.1	1984.	1.03	1.6	15.	5.2	13.0	194.	7.	0.03
5.10	843.	21.5	8.1	1985.	1.03	1.6	15.	5.3	13.2	194.	7.	0.03
5.25	833.	21.2	8.1	1986.	1.03	1.7	17.	5.4	13.4	192.	7.	0.04
5.40	886.	20.3	8.1	1987.	1.03	1.8	18.	5.5	13.6	204.	7.	0.03
5.55	906.	19.5	8.1	1988.	1.03	1.9	18.	5.6	13.9	208.	7.	0.03
5.70	980.	18.9	8.1	1989.	1.03	1.6	16.	5.7	14.1	225.	7.	0.03
5.85	1027.	18.4	8.1	1990.	1.03	1.6	16.	5.8	14.3	236.	7.	0.03
6.00	1022.	19.1	8.1	1998.	1.02	1.5	15.	5.9	14.6	235.	7.	0.03
6.15	978.	20.9	8.2	2016.	1.02	1.4	14.	6.0	14.8	225.	8.	0.03
6.30	982.	24.9	8.1	1999.	1.02	1.5	14.	6.1	15.0	226.	8.	0.03
6.45	987.	26.1	7.8	1921.	1.05	3.1	29.	6.2	15.2	227.	7.	0.03
6.60	1047.	25.9	7.4	1832.	1.09	5.5	49.	6.3	15.3	241.	7.	0.03
6.75	1072.	26.3	7.8	1913.	1.10	6.2	58.	6.4	15.6	247.	8.	0.03
6.90	1155.	27.0	8.3	2037.	1.07	4.4	44.	6.4	15.9	266.	8.	0.03
7.05	1209.	27.2	7.8	1914.	1.11	6.7	62.	6.5	16.0	278.	8.	0.03
7.20	1270.	27.2	7.8	1925.	1.10	6.0	56.	6.6	16.3	292.	8.	0.03
7.35	1381.	24.7	8.5	2084.	1.08	5.1	52.	6.7	16.7	318.	9.	0.03
7.50	1359.	23.4	7.9	1948.	1.09	5.7	54.	6.8	16.7	312.	8.	0.03
7.65	1348.	24.6	7.8	1912.	1.09	5.3	49.	6.9	16.9	310.	8.	0.03
7.80	1442.	30.4	8.0	1957.	1.07	4.2	40.	7.0	17.2	332.	9.	0.03
7.95	1438.	31.4	8.0	1979.	1.09	5.2	50.	7.1	17.5	331.	9.	0.03
8.10	1442.	32.2	7.8	1917.	1.15	8.8	82.	7.2	17.6	332.	9.	0.03
8.25	1430.	32.7	7.5	1849.	1.19	11.3	102.	7.3	17.8	329.	8.	0.03
8.40	1397.	32.4	7.8	1922.	1.16	9.7	91.	7.4	18.1	321.	9.	0.03
8.55	1398.	32.3	8.6	2115.	1.14	8.7	90.	7.5	18.5	322.	10.	0.03
8.70	1458.	29.6	8.3	2029.	1.25	15.0	147.	7.6	18.7	335.	10.	0.03
8.85	1543.	29.6	8.0	1969.	1.29	17.4	167.	7.7	18.8	355.	10.	0.03
9.00	1701.	28.8	8.1	2000.	1.22	13.3	129.	7.8	19.1	391.	10.	0.02
9.15	1654.	27.3	8.1	2002.	1.20	11.9	115.	7.9	19.3	380.	10.	0.03
9.30	1484.	30.5	7.9	1946.	1.21	12.4	117.	8.0	19.5	341.	10.	0.03
9.45	1449.	32.6	7.7	1897.	1.18	11.0	101.	8.1	19.7	333.	10.	0.03
9.60	1449.	33.6	8.1	1997.	1.13	8.1	79.	8.2	19.9	333.	10.	0.03
9.75	1428.	33.6	8.2	2023.	1.07	4.0	40.	8.3	20.1	329.	10.	0.03
9.90	1410.	33.4	7.9	1939.	1.12	7.0	66.	8.3	20.2	324.	10.	0.03
10.05	1392.	32.8	7.5	1847.	1.18	10.9	97.	8.4	20.3	320.	10.	0.03
10.20	1431.	31.9	7.8	1926.	1.16	9.9	92.	8.5	20.6	329.	10.	0.03
10.35	1520.	30.3	8.0	1967.	1.17	10.2	97.	8.6	20.8	350.	10.	0.03
10.50	1589.	29.5	7.6	1865.	1.20	12.4	112.	8.6	20.8	365.	10.	0.03
10.65	1781.	28.0	7.7	1898.	1.22	13.4	123.	8.7	21.1	410.	10.	0.02

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1593.	27.1	7.4	1812.	1.18	10.6	93.	8.8	21.1	366.	13.	0.03
10.95	1463.	29.0	7.1	1748.	1.16	9.6	82.	8.9	21.3	337.	9.	0.03
11.10	1440.	33.4	7.0	1733.	1.19	11.8	99.	9.0	21.4	331.	9.	0.03
11.25	1436.	34.6	7.0	1710.	1.17	10.4	86.	9.0	21.6	330.	9.	0.03
11.40	1432.	34.4	7.2	1770.	1.15	8.9	77.	9.1	21.8	329.	10.	0.03
11.55	1381.	33.5	7.3	1804.	1.19	11.6	102.	9.2	22.1	318.	10.	0.03
11.70	1377.	33.4	7.4	1812.	1.22	13.3	117.	9.3	22.4	317.	10.	0.03
11.85	1423.	32.8	7.5	1840.	1.18	10.8	96.	9.4	22.6	327.	11.	0.03
12.00	1578.	31.2	7.5	1851.	1.18	10.8	97.	9.5	22.9	363.	11.	0.03
12.15	1732.	29.6	7.3	1805.	1.23	14.0	122.	9.6	23.0	398.	11.	0.03
12.30	1710.	27.7	7.4	1811.	1.18	11.0	97.	9.7	23.3	393.	11.	0.03
12.45	1460.	29.7	7.2	1772.	1.15	8.9	77.	9.8	23.5	336.	11.	0.03
12.60	1459.	32.8	7.0	1720.	1.20	11.8	99.	9.9	23.7	336.	10.	0.03
12.75	1438.	35.5	7.0	1729.	1.22	13.1	110.	10.0	23.9	331.	11.	0.03
12.90	1410.	35.5	7.1	1750.	1.15	9.2	78.	10.1	24.2	324.	11.	0.03
13.05	1396.	34.2	7.2	1777.	1.15	9.0	78.	10.2	24.4	321.	11.	0.03
13.20	1385.	34.0	6.9	1708.	1.24	14.5	120.	10.3	24.6	318.	11.	0.03
13.35	1392.	33.9	6.7	1641.	1.31	19.1	152.	10.5	24.8	320.	10.	0.03
13.50	1531.	33.2	7.0	1729.	1.23	13.7	115.	10.6	25.2	352.	11.	0.03
13.65	1631.	31.0	7.0	1725.	1.24	14.8	124.	10.7	25.4	375.	11.	0.03
13.80	1716.	29.1	6.6	1611.	1.27	16.4	128.	10.8	25.6	395.	11.	0.03
13.95	1499.	29.7	6.2	1518.	1.29	17.4	128.	10.9	25.8	345.	10.	0.03
14.10	1462.	32.0	6.7	1645.	1.25	15.0	120.	11.1	26.2	336.	11.	0.03
14.25	1441.	35.6	6.9	1702.	1.21	12.4	103.	11.2	26.5	331.	11.	0.03
14.40	1427.	35.6	6.6	1618.	1.26	15.9	125.	11.3	26.7	328.	11.	0.03
14.55	1424.	36.3	6.4	1579.	1.29	17.7	136.	11.4	27.0	328.	11.	0.03
14.70	1390.	29.4	6.1	1512.	1.31	19.1	140.	11.5	27.2	320.	10.	0.03
14.85	1342.	32.2	5.7	1410.	1.31	19.1	130.	11.6	27.4	309.	10.	0.03
15.00	1428.	34.3	5.6	1377.	1.32	19.7	132.	11.8	27.6	328.	10.	0.03
15.15	1543.	33.2	5.2	1277.	1.03	1.8	11.	11.9	27.9	355.	9.	0.03
15.30	1698.	30.8	6.0	1465.	1.11	6.9	49.	12.0	28.3	391.	11.	0.03
15.45	1834.	27.8	5.8	1426.	1.14	8.7	60.	12.2	28.7	422.	10.	0.02
15.60	1467.	29.5	5.9	1445.	1.40	24.4	171.	12.4	29.0	337.	11.	0.03
15.75	1408.	32.8	6.2	1517.	1.31	18.9	139.	12.5	29.4	324.	11.	0.04
15.90	1383.	31.3	6.0	1484.	1.27	16.4	118.	12.7	29.8	318.	11.	0.04
16.05	1383.	33.1	5.5	1356.	1.41	24.9	164.	12.8	30.0	318.	10.	0.03
16.20	1386.	34.9	4.8	1177.	1.36	22.0	125.	13.0	30.2	319.	9.	0.03
16.35	1365.	34.9	4.8	1182.	1.08	5.0	29.	13.1	30.6	314.	9.	0.03
16.50	1352.	33.3	5.3	1294.	1.17	10.2	64.	13.3	31.0	311.	10.	0.03

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1403.	30.9	5.3	1301.	1.40	24.3	153.	13.4	31.4	323.	19.	0.03
16.80	1532.	29.1	5.2	1280.	1.50	30.0	187.	13.6	31.7	352.	10.	0.03
16.95	1732.	24.8	5.3	1308.	1.26	15.7	100.	13.7	32.1	398.	11.	0.03
17.10	1586.	24.0	5.4	1339.	1.26	15.6	101.	13.9	32.5	365.	11.	0.03
17.25	1428.	32.7	5.2	1285.	1.14	8.7	54.	14.1	32.9	329.	11.	0.03
17.40	1471.	36.3	4.4	1079.	1.03	2.0	10.	14.3	33.3	338.	9.	0.03
17.55	1455.	30.5	3.5	867.	1.03	1.8	8.	14.5	33.6	335.	7.	0.02
17.70	1418.	33.3	4.6	1124.	1.01	0.7	4.	14.7	34.2	326.	10.	0.03
17.85	1431.	37.4	4.0	986.	1.01	0.5	3.	14.9	34.5	329.	9.	0.03
18.00	1394.	37.4	4.4	1076.	1.01	0.9	5.	15.1	35.0	321.	10.	0.03
18.15	1348.	36.8	4.9	1201.	1.04	2.6	15.	15.3	35.6	310.	11.	0.03
18.30	1372.	36.7	5.1	1266.	1.12	7.0	43.	15.4	36.0	316.	12.	0.04
18.45	1717.	33.3	6.1	1498.	1.17	10.4	75.	15.6	36.6	395.	14.	0.04
18.60	1822.	33.3	6.1	1488.	1.20	12.2	88.	15.8	37.1	419.	14.	0.03
18.75	1654.	31.0	5.8	1422.	1.15	9.1	63.	16.0	37.5	381.	14.	0.04
18.90	1471.	35.0	5.4	1577.	1.10	5.8	45.	16.2	38.0	338.	15.	0.04
19.05	1450.	37.6	6.3	1543.	1.17	10.2	76.	16.4	38.4	334.	15.	0.05
19.20	1436.	37.6	6.2	1519.	1.19	11.3	83.	16.6	38.8	330.	15.	0.05
19.35	1418.	37.5	6.4	1569.	1.15	9.3	71.	16.7	39.2	326.	16.	0.05
19.50	1386.	36.9	6.5	1592.	1.20	12.1	94.	16.9	39.6	319.	16.	0.05
19.65	1359.	36.7	6.4	1579.	1.23	13.9	107.	17.1	40.0	313.	16.	0.05
19.80	1381.	35.4	6.4	1572.	1.20	12.0	91.	17.2	40.4	318.	16.	0.05
19.95	1472.	34.4	6.8	1675.	1.19	11.3	92.	17.4	40.9	339.	17.	0.05
20.10	1644.	31.5	6.6	1635.	1.21	12.8	102.	17.6	41.3	378.	17.	0.05
20.25	1742.	30.8	6.5	1588.	1.19	11.7	90.	17.8	41.6	401.	17.	0.04
20.40	1681.	32.4	6.5	1600.	1.17	10.1	78.	17.9	42.0	387.	17.	0.04
20.55	1444.	34.9	6.5	1590.	1.14	8.7	67.	18.1	42.4	332.	17.	0.05
20.70	1435.	37.9	6.5	1602.	1.20	12.1	94.	18.3	42.8	330.	17.	0.05
20.85	1427.	37.8	6.6	1616.	1.21	12.6	99.	18.4	43.2	328.	18.	0.05
21.00	1396.	37.5	6.5	1597.	1.19	11.5	89.	18.6	43.6	321.	18.	0.05
21.15	1390.	37.2	6.3	1543.	1.22	13.6	102.	18.7	43.9	320.	17.	0.05
21.30	1382.	37.0	5.8	1434.	1.25	15.3	107.	18.9	44.1	318.	16.	0.05
21.45	1435.	35.4	5.3	1305.	1.25	15.4	97.	19.0	44.4	330.	15.	0.04
21.60	1544.	33.5	5.2	1273.	1.22	13.6	84.	19.2	44.7	355.	14.	0.04
21.75	1801.	32.2	5.0	1222.	1.20	12.4	73.	19.4	45.0	414.	14.	0.03
21.90	1536.	32.9	4.6	1136.	1.21	13.0	72.	19.5	45.3	353.	13.	0.04
22.05	1459.	35.5	4.4	1081.	1.24	14.8	78.	19.7	45.6	336.	12.	0.04
22.20	1444.	38.6	4.4	1088.	1.26	15.8	84.	19.8	46.0	332.	13.	0.04
22.35	1421.	38.9	4.5	1111.	1.26	15.5	84.	20.0	46.4	327.	13.	0.04

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1395.	38.7	4.8	1177.	1.28	17.2	98.	20.1	46.7	321.	14.	0.04
22.65	1383.	38.4	5.1	1248.	1.31	18.8	114.	20.3	47.2	318.	15.	0.05
22.80	1390.	36.7	5.2	1284.	1.31	18.9	118.	20.5	47.6	320.	16.	0.05
22.95	1425.	36.6	5.1	1261.	1.34	20.7	127.	20.7	48.1	328.	15.	0.05
23.10	1578.	34.7	4.8	1189.	1.35	21.1	122.	20.9	48.5	363.	15.	0.04
23.25	1566.	33.5	5.3	1304.	1.31	18.7	118.	21.1	49.0	360.	16.	0.04
23.40	1554.	32.6	5.5	1343.	1.26	15.8	103.	21.2	49.5	357.	17.	0.05
23.55	1489.	32.4	5.5	1353.	1.28	16.9	111.	21.4	49.9	343.	17.	0.05
23.70	1430.	38.1	5.1	1260.	1.31	18.5	113.	21.6	50.3	329.	16.	0.05
23.85	1429.	39.8	5.8	1420.	1.27	16.6	114.	21.8	50.9	329.	19.	0.06
24.00	1414.	39.2	5.9	1449.	1.28	16.8	118.	22.0	51.4	325.	19.	0.06
24.15	1395.	38.2	5.1	1263.	1.30	18.3	112.	22.2	51.7	321.	17.	0.05
24.30	1375.	37.8	5.5	1357.	1.32	19.2	127.	22.4	52.2	316.	18.	0.06
24.45	1434.	36.2	5.7	1413.	1.30	18.5	127.	22.6	52.7	330.	19.	0.06
24.60	1512.	35.1	5.6	1368.	1.28	17.0	113.	22.8	53.0	348.	18.	0.05
24.75	1502.	34.8	5.1	1253.	1.28	17.2	105.	22.8	53.0	368.	17.	0.05
24.90	1695.	33.7	4.9	1213.	1.29	17.5	103.	22.9	53.2	390.	16.	0.04
25.05	1526.	29.4	4.9	1202.	1.25	15.2	88.	23.0	53.3	351.	16.	0.05
25.20	1432.	35.7	4.7	1147.	1.24	14.4	80.	23.0	53.5	329.	16.	0.05
25.35	1431.	40.2	4.5	1099.	1.25	15.4	82.	23.1	53.6	329.	15.	0.05
25.50	1413.	40.1	4.4	1073.	1.31	18.5	97.	23.2	53.7	325.	15.	0.04
25.65	1399.	43.2	4.6	1130.	1.27	16.5	91.	25.3	58.7	322.	17.	0.05
25.80	1477.	44.8	4.3	1061.	1.27	16.4	85.	28.8	66.8	340.	18.	0.05
25.95	1295.	38.1	4.2	1021.	1.28	16.9	84.	29.7	68.8	298.	18.	0.06
26.10	1375.	42.2	4.1	1000.	1.25	14.9	72.	29.8	68.9	316.	17.	0.05
26.25	1470.	43.6	4.1	1006.	1.25	14.9	73.	29.8	69.0	338.	18.	0.05
26.40	1744.	41.4	4.2	1031.	1.25	15.3	76.	29.9	69.2	401.	18.	0.04
26.55	1838.	40.8	4.4	1074.	1.25	15.1	79.	29.9	69.3	423.	19.	0.04
26.70	1530.	40.6	4.6	1139.	1.38	22.9	126.	30.0	69.5	352.	20.	0.06
26.85	1443.	44.8	5.1	1249.	1.52	31.8	193.	30.0	69.7	332.	22.	0.07
27.00	1441.	49.8	5.4	1335.	1.64	39.3	252.	30.1	69.9	331.	24.	0.07
27.15	1417.	49.2	5.0	1237.	1.65	39.3	236.	30.1	69.9	326.	22.	0.07
27.30	1405.	48.5	5.2	1278.	1.56	33.9	210.	30.2	70.1	323.	23.	0.07
27.45	1363.	48.0	5.3	1313.	1.51	31.2	199.	30.2	70.2	313.	23.	0.07
27.60	1353.	46.9	5.3	1300.	1.47	28.7	181.	30.3	70.3	311.	23.	0.07
27.75	1519.	46.1	5.0	1223.	1.43	26.2	156.	31.2	72.4	349.	22.	0.06
27.90	1666.	44.0	4.9	1217.	1.37	22.1	131.	31.7	73.4	383.	23.	0.06
28.05	1838.	42.4	4.9	1206.	1.28	16.7	98.	31.9	74.0	423.	23.	0.05
28.20	1567.	40.9	4.6	1136.	1.26	15.5	85.	32.0	74.0	360.	21.	0.06

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1437.	47.3	4.8	1180.	1.34	20.7	119.	31.9	73.9	331.	22.	0.07
28.50	1427.	49.5	4.5	1103.	1.33	20.0	107.	31.6	73.1	328.	20.	0.06
28.65	1418.	50.3	4.5	1105.	1.28	17.2	92.	31.4	72.8	326.	20.	0.06
28.80	1407.	50.0	4.5	1114.	1.34	20.9	113.	31.5	73.0	324.	21.	0.06
28.95	1393.	49.1	4.5	1116.	1.42	25.3	137.	32.0	74.2	320.	21.	0.07
29.10	1377.	46.6	4.2	1041.	1.38	22.8	115.	32.4	75.0	317.	20.	0.06
29.25	1441.	46.8	4.2	1022.	1.36	22.0	109.	33.2	77.0	332.	20.	0.06
29.40	1585.	45.9	4.2	1023.	1.34	20.4	101.	33.2	76.9	365.	20.	0.05
29.55	1728.	43.5	4.2	1024.	1.31	18.6	93.	33.2	76.8	398.	20.	0.05
29.70	1801.	41.3	4.2	1026.	1.30	18.0	90.	33.5	77.5	414.	20.	0.05
29.85	1426.	41.2	4.2	1026.	1.29	17.7	88.	34.1	78.9	328.	20.	0.06
30.00	1391.	44.0	4.7	1146.	1.29	17.6	98.	34.0	78.8	320.	23.	0.07
30.15	1374.	49.2	4.3	1061.	1.29	17.8	91.	33.7	77.9	316.	21.	0.07
30.30	1383.	49.5	4.0	982.	1.39	23.7	113.	33.8	78.1	318.	19.	0.06
30.45	1378.	49.6	4.1	1013.	1.33	20.1	99.	33.9	78.4	317.	20.	0.06
30.60	1365.	48.7	4.4	1078.	1.33	20.0	105.	32.1	74.5	314.	20.	0.06
30.75	1382.	41.0	4.5	1116.	1.33	20.0	108.	28.9	67.1	318.	19.	0.06
30.90	1512.	38.4	4.4	1079.	1.35	20.9	110.	28.1	65.1	348.	18.	0.05
31.05	1775.	36.0	4.2	1042.	1.27	16.6	84.	28.5	66.2	408.	17.	0.04
31.20	1730.	31.4	4.4	1093.	1.25	15.2	81.	29.1	67.4	398.	19.	0.05
31.35	1378.	29.9	4.3	1046.	1.26	15.8	80.	28.6	66.3	317.	18.	0.06
31.50	1408.	33.4	3.9	948.	1.37	22.2	102.	28.0	64.8	324.	16.	0.05
31.65	1340.	41.2	3.9	965.	1.44	26.5	124.	28.8	66.6	308.	16.	0.05
31.80	1383.	41.9	4.3	1065.	1.37	22.3	115.	29.2	67.5	318.	18.	0.06
31.95	1390.	40.1	4.3	1057.	1.37	22.6	116.	29.5	68.3	320.	18.	0.06
32.10	1376.	40.3	4.5	1101.	1.43	26.0	139.	29.8	69.0	316.	19.	0.06
32.25	1347.	39.0	4.9	1198.	1.40	24.2	141.	30.0	69.6	310.	21.	0.07
32.40	1506.	38.2	5.3	1302.	1.34	20.4	129.	30.3	70.3	346.	23.	0.07
32.55	1629.	36.9	5.4	1327.	1.34	20.7	133.	30.5	70.9	375.	24.	0.06
32.70	1792.	35.5	4.9	1195.	1.39	23.5	136.	30.3	70.2	412.	21.	0.05
32.85	1755.	34.2	5.0	1239.	1.36	22.0	133.	30.3	70.3	404.	22.	0.05
33.00	1458.	34.8	5.0	1230.	1.29	17.5	104.	30.3	70.4	335.	22.	0.07
33.15	1421.	39.7	4.7	1154.	1.29	17.8	100.	30.4	70.4	327.	21.	0.06
33.30	1408.	41.4	4.7	1159.	1.44	26.5	149.	30.4	70.4	324.	21.	0.06
33.45	1400.	41.3	4.8	1186.	1.33	20.0	115.	30.4	70.5	322.	21.	0.07
33.60	1384.	40.2	4.7	1158.	1.32	19.5	110.	30.6	70.9	318.	21.	0.07
33.75	1373.	39.3	4.6	1130.	1.37	22.7	124.	30.8	71.3	316.	21.	0.06
33.90	1368.	38.5	4.8	1186.	1.37	22.3	128.	30.8	71.4	315.	21.	0.07
34.05	1536.	37.4	4.7	1155.	1.25	15.4	86.	31.0	71.8	353.	21.	0.06

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1648.	35.6	5.0	1231.	1.23	14.2	85.	31.7	73.6	379.	23.	0.06
34.35	1826.	33.6	4.9	1207.	1.24	14.3	84.	31.5	73.1	420.	22.	0.05
34.50	1425.	32.8	5.2	1272.	1.22	13.1	81.	31.2	72.5	328.	23.	0.07
34.65	1422.	35.6	5.6	1389.	1.17	10.2	69.	31.2	72.6	327.	26.	0.08
34.80	1420.	38.5	5.9	1455.	1.19	11.6	82.	31.4	72.9	327.	27.	0.08
34.95	1405.	41.1	5.5	1353.	1.22	13.3	88.	31.5	73.2	323.	25.	0.08
35.10	1388.	39.7	6.0	1469.	1.20	12.3	88.	31.6	73.5	319.	27.	0.09
35.25	1378.	38.5	6.4	1576.	1.18	10.7	82.	31.8	73.9	317.	29.	0.09
35.40	1375.	37.7	6.1	1506.	1.20	12.1	88.	31.9	74.2	316.	28.	0.09
35.55	1413.	36.8	5.8	1428.	1.17	10.3	71.	32.0	74.4	325.	27.	0.08
35.70	1492.	35.6	6.0	1486.	1.13	7.6	55.	32.2	74.8	343.	28.	0.08
35.85	1719.	33.0	6.5	1600.	1.11	6.8	53.	32.3	75.2	395.	30.	0.08
36.00	1584.	31.9	6.6	1617.	1.14	8.4	66.	32.4	75.3	364.	31.	0.08
36.15	1449.	32.1	6.3	1554.	1.12	7.4	56.	32.3	75.1	333.	30.	0.09
36.30	1408.	34.3	6.3	1539.	1.10	6.2	46.	32.2	74.9	324.	29.	0.09
36.45	1387.	38.5	6.4	1586.	1.11	6.7	51.	32.1	74.7	319.	30.	0.09
36.60	1370.	39.0	6.4	1565.	1.13	7.7	58.	32.0	74.5	315.	29.	0.09
36.75	1379.	38.4	6.4	1562.	1.11	6.7	51.	31.9	74.3	317.	29.	0.09
36.90	1355.	37.4	6.6	1613.	1.10	6.2	48.	31.8	74.1	312.	30.	0.10
37.05	1424.	36.2	6.6	1630.	1.13	8.0	64.	31.7	73.9	327.	30.	0.09
37.20	1474.	35.0	6.3	1551.	1.13	7.6	57.	31.7	73.7	339.	29.	0.09
37.35	1524.	34.3	6.4	1568.	1.10	6.2	47.	31.6	73.5	351.	29.	0.08
37.50	1700.	33.1	6.4	1585.	1.08	4.6	35.	31.5	73.3	391.	29.	0.08
37.65	1521.	31.7	6.4	1586.	1.14	8.8	68.	30.9	72.0	350.	29.	0.08
37.80	1409.	33.7	6.5	1587.	1.14	8.3	64.	30.4	70.8	324.	28.	0.09
37.95	1396.	37.9	6.6	1621.	1.12	7.3	57.	32.5	75.7	321.	31.	0.10
38.10	1403.	38.6	6.7	1651.	1.13	7.8	63.	31.6	73.6	323.	31.	0.10
38.25	1377.	38.1	6.6	1612.	1.20	12.4	97.	31.6	73.5	317.	30.	0.09
38.40	1367.	37.5	6.5	1597.	1.19	11.3	88.	31.6	73.5	314.	30.	0.09
38.55	1373.	36.6	6.6	1618.	1.15	8.9	70.	31.6	73.6	316.	30.	0.10
38.70	1428.	35.0	6.7	1646.	1.20	12.3	98.	31.6	73.7	328.	31.	0.09
38.85	1514.	34.2	6.7	1653.	1.19	11.7	94.	31.7	73.8	348.	31.	0.09
39.00	1612.	32.8	6.7	1645.	1.17	10.3	82.	31.7	73.8	371.	31.	0.08
39.15	1780.	31.4	6.7	1637.	1.14	8.3	66.	30.6	71.2	409.	29.	0.07
39.30	1416.	32.3	6.6	1635.	1.12	7.3	58.	30.6	71.3	326.	29.	0.09
39.45	1423.	34.6	6.7	1636.	1.20	12.1	96.	31.3	72.9	327.	30.	0.09
39.60	1401.	37.5	6.7	1637.	1.18	10.9	87.	31.5	73.5	322.	30.	0.09
39.75	1380.	37.2	6.7	1639.	1.20	12.2	97.	31.7	73.9	317.	31.	0.10
39.90	1371.	36.7	6.7	1648.	1.26	15.9	127.	31.7	73.8	315.	31.	0.10

RUN NUMBER- 32
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1346.	36.5	6.7	1658.	1.25	14.9	120.	31.1	72.5	310.	30.	0.10
40.20	1367.	35.6	6.8	1662.	1.21	12.9	104.	31.0	72.2	314.	30.	0.10
40.35	1491.	34.0	6.7	1653.	1.25	15.1	121.	31.0	72.2	343.	30.	0.09
40.50	1660.	31.9	6.7	1645.	1.28	16.7	133.	30.9	72.1	382.	30.	0.08
40.65	1759.	31.2	6.5	1602.	1.25	15.1	117.	30.9	71.9	405.	29.	0.07
40.80	1628.	33.6	6.8	1671.	1.21	12.6	102.	30.9	71.9	374.	30.	0.08
40.95	1421.	36.1	6.8	1682.	1.17	10.5	86.	30.8	71.8	327.	31.	0.09
41.10	1415.	37.7	6.7	1646.	1.29	17.5	140.	30.8	71.7	326.	30.	0.09
41.25	1393.	38.6	6.6	1628.	1.27	16.1	127.	30.7	71.6	321.	30.	0.09
41.40	1379.	38.5	6.9	1706.	1.25	15.4	128.	30.7	71.5	317.	31.	0.10
41.55	1359.	37.5	6.9	1686.	1.45	27.2	223.	30.6	71.4	313.	31.	0.10
41.70	1338.	35.9	6.4	1578.	1.40	24.1	185.	30.6	71.2	308.	29.	0.09
41.85	1389.	34.2	6.2	1522.	1.34	20.5	151.	30.5	71.1	319.	27.	0.09
42.00	1492.	32.2	6.0	1480.	1.36	21.9	157.	30.5	70.9	343.	27.	0.08
42.15	1621.	31.6	5.9	1444.	1.38	23.1	162.	30.5	70.8	373.	26.	0.07
42.30	1750.	32.0	5.7	1396.	1.40	24.1	163.	29.4	68.3	403.	24.	0.06
42.45	1379.	29.0	5.4	1331.	1.33	20.2	131.	27.4	63.6	317.	21.	0.07
42.60	1369.	37.3	5.2	1277.	1.33	19.9	124.	29.9	69.3	315.	22.	0.07
42.75	1370.	38.5	4.9	1212.	1.32	19.4	114.	29.9	69.4	315.	21.	0.07
42.90	1390.	37.9	4.7	1158.	1.08	4.9	28.	29.6	68.7	320.	20.	0.06
43.05	1336.	35.8	5.0	1222.	1.27	16.4	98.	29.7	68.8	307.	21.	0.07
43.20	1335.	37.4	5.2	1275.	1.52	31.7	196.	29.5	68.4	307.	22.	0.07
43.35	1351.	35.3	5.3	1314.	1.62	37.4	239.	29.2	67.7	311.	23.	0.07
43.50	1438.	29.2	5.7	1391.	1.47	28.6	193.	28.0	65.1	331.	23.	0.07
43.65	1389.	28.5	5.8	1428.	1.33	19.9	138.	27.1	62.9	320.	23.	0.07
43.80	1625.	34.1	5.5	1342.	1.31	18.8	122.	29.0	67.5	374.	23.	0.06
43.95	1824.	29.3	4.8	1178.	1.16	9.8	56.	28.3	65.7	420.	20.	0.05
44.10	1502.	29.1	4.1	1010.	1.02	1.2	6.	27.8	64.5	346.	16.	0.05
44.25	1415.	32.5	3.5	855.	1.11	6.8	28.	29.2	67.6	326.	15.	0.04
44.40	1336.	40.5	3.5	849.	1.16	9.7	40.	29.3	67.7	307.	15.	0.05
44.55	1387.	43.1	3.6	887.	1.18	11.1	48.	29.5	68.2	319.	15.	0.05
44.70	1239.	33.3	4.1	999.	1.12	7.0	34.	29.4	68.0	285.	17.	0.06
44.85	1148.	36.8	4.6	1136.	1.11	6.7	37.	29.5	68.4	264.	20.	0.07
45.00	1210.	40.1	4.4	1083.	1.16	9.8	52.	29.7	68.7	278.	19.	0.07
45.15	1462.	36.1	4.2	1026.	1.16	10.0	50.	29.2	67.7	336.	18.	0.05

LOCATION- MASONBORO INLET
DATE OF TEST- 9 22 78
RUN NUMBER- 33
SEGMENT NUMBER- 1
WATER DEPTH- 20 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2%
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1426.	32.7	7.3	1793.	1.14	8.2	71.	22.7	53.3	328.	24.	0.07
0.15	1411.	34.9	7.1	1757.	1.14	8.4	71.	21.5	50.5	325.	22.	0.07
0.30	1399.	35.3	7.1	1748.	1.17	10.2	86.	22.5	53.0	322.	23.	0.07
0.45	1387.	34.9	7.1	1755.	1.16	9.4	80.	24.2	56.7	319.	25.	0.08
0.60	1371.	34.6	7.5	1848.	1.15	9.3	83.	25.5	59.7	315.	28.	0.09
0.75	1357.	33.8	7.5	1848.	1.17	10.1	91.	24.3	57.0	312.	27.	0.09
0.90	1347.	33.4	7.6	1871.	1.16	9.9	90.	24.1	56.6	310.	27.	0.09
1.05	1335.	32.9	7.8	1916.	1.15	9.3	86.	23.9	56.1	307.	27.	0.09
1.20	1426.	32.2	7.8	1916.	1.18	10.7	99.	23.7	55.7	328.	27.	0.08
1.35	1426.	31.2	7.5	1836.	1.18	10.9	97.	23.7	55.6	328.	26.	0.08
1.50	1483.	30.3	7.5	1857.	1.16	9.5	86.	23.7	55.6	341.	26.	0.08
1.65	1571.	29.6	7.4	1822.	1.15	9.2	82.	23.7	55.6	361.	26.	0.07
1.80	1673.	28.6	7.3	1794.	1.15	9.1	80.	23.4	54.8	385.	25.	0.06
1.95	1583.	28.1	7.3	1798.	1.15	9.1	80.	23.3	54.5	364.	25.	0.07
2.10	1446.	28.6	7.3	1806.	1.14	8.2	72.	22.7	53.3	333.	24.	0.07
2.25	1419.	32.1	7.1	1758.	1.13	7.6	65.	21.7	50.8	326.	23.	0.07
2.40	1400.	34.6	7.1	1757.	1.16	9.5	81.	21.2	49.7	322.	22.	0.07
2.55	1386.	34.6	7.3	1796.	1.18	11.1	96.	21.6	50.8	319.	23.	0.07
2.70	1371.	34.6	7.3	1806.	1.14	8.7	76.	22.5	52.7	315.	24.	0.08
2.85	1372.	34.6	7.4	1822.	1.20	12.2	108.	24.0	56.3	316.	26.	0.08
3.00	1366.	34.4	7.4	1816.	1.18	11.1	98.	25.4	59.4	314.	27.	0.09
3.15	1352.	34.1	7.4	1832.	1.17	10.2	91.	25.4	59.4	311.	28.	0.09
3.30	1355.	33.5	7.8	1914.	1.23	13.9	129.	25.1	58.9	312.	29.	0.09
3.45	1402.	32.5	7.8	1912.	1.21	13.0	120.	24.8	58.1	322.	28.	0.09
3.60	1452.	32.3	7.5	1853.	1.19	11.6	105.	24.4	57.2	334.	27.	0.08
3.75	1493.	31.5	7.7	1903.	1.18	10.9	101.	24.0	56.4	343.	27.	0.08
3.90	1613.	29.7	7.8	1927.	1.21	12.9	120.	23.7	55.5	371.	27.	0.07
4.05	1680.	29.2	7.6	1859.	1.20	12.2	110.	23.3	54.6	386.	26.	0.07
4.20	1635.	29.2	7.5	1844.	1.19	11.8	106.	22.7	53.4	376.	25.	0.07
4.35	1509.	29.2	7.4	1822.	1.16	9.9	88.	22.1	51.9	347.	24.	0.07
4.50	1405.	33.4	7.3	1804.	1.20	12.2	107.	21.5	50.5	323.	23.	0.07
4.65	1396.	35.5	7.5	1833.	1.24	14.3	128.	20.9	49.2	321.	23.	0.07
4.80	1391.	35.3	7.4	1832.	1.22	13.6	121.	20.9	49.0	320.	23.	0.07

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1376.	35.5	7.3	1783.	1.18	10.7	93.	23.1	54.2	316.	24.	0.08
5.10	1372.	35.2	7.5	1847.	1.28	17.1	153.	25.4	59.5	316.	28.	0.09
5.25	1381.	34.7	7.1	1735.	1.30	18.3	154.	25.6	59.7	318.	26.	0.08
5.40	1340.	34.3	7.5	1855.	1.21	12.9	116.	25.5	59.7	308.	28.	0.09
5.55	1356.	33.7	7.7	1894.	1.31	19.1	175.	25.4	59.5	312.	29.	0.09
5.70	1376.	33.5	7.3	1794.	1.32	19.5	170.	25.2	59.1	317.	27.	0.09
5.85	1405.	33.1	7.1	1751.	1.26	15.5	132.	24.4	57.1	323.	25.	0.08
6.00	1447.	32.3	7.5	1840.	1.30	18.3	163.	23.6	55.3	333.	26.	0.08
6.15	1563.	30.1	7.2	1765.	1.27	16.2	139.	23.6	55.2	360.	25.	0.07
6.30	1669.	29.6	6.8	1664.	1.26	15.9	129.	24.2	56.5	384.	24.	0.06
6.45	1674.	29.1	6.8	1674.	1.26	15.7	128.	24.7	57.7	385.	24.	0.06
6.60	1429.	30.6	7.0	1729.	1.18	11.1	93.	24.0	56.0	329.	25.	0.07
6.75	1405.	33.5	7.1	1736.	1.23	13.8	116.	23.2	54.3	323.	24.	0.07
6.90	1402.	35.4	7.0	1726.	1.25	15.2	127.	22.5	52.6	323.	23.	0.07
7.05	1401.	36.2	7.0	1730.	1.20	12.1	101.	21.7	50.9	322.	22.	0.07
7.20	1386.	35.9	7.1	1737.	1.30	18.5	156.	23.2	54.3	319.	24.	0.08
7.35	1382.	35.5	7.0	1732.	1.32	19.1	161.	24.6	57.6	318.	25.	0.08
7.50	1373.	35.0	7.0	1713.	1.27	16.2	134.	25.5	59.7	316.	26.	0.08
7.65	1352.	35.2	7.3	1807.	1.29	17.7	156.	26.0	60.8	311.	28.	0.09
7.80	1351.	34.7	7.1	1749.	1.37	22.2	188.	26.2	61.3	311.	27.	0.09
7.95	1365.	33.5	6.8	1668.	1.32	19.6	159.	25.9	60.5	314.	26.	0.08
8.10	1475.	33.1	7.2	1759.	1.28	16.8	144.	25.5	59.7	339.	27.	0.08
8.25	1538.	32.3	6.8	1683.	1.33	19.9	163.	24.8	58.0	354.	25.	0.07
8.40	1599.	31.7	6.7	1645.	1.34	20.6	165.	24.1	56.3	368.	24.	0.06
8.55	1659.	28.7	6.6	1625.	1.23	13.9	110.	23.4	54.6	382.	22.	0.06
8.70	1670.	28.8	6.8	1666.	1.18	11.0	89.	22.9	53.5	384.	23.	0.06
8.85	1445.	30.0	6.9	1698.	1.32	19.3	159.	22.5	52.6	332.	23.	0.07
9.00	1414.	32.0	6.7	1651.	1.30	18.2	146.	22.0	51.5	325.	22.	0.07
9.15	1402.	34.6	6.7	1641.	1.23	13.7	109.	21.6	50.6	323.	21.	0.07
9.30	1397.	36.2	7.0	1722.	1.19	11.7	98.	22.7	53.0	321.	23.	0.07
9.45	1383.	36.4	6.6	1633.	1.24	14.5	115.	24.7	57.7	318.	24.	0.08
9.60	1368.	35.6	6.9	1691.	1.24	14.7	121.	26.6	62.1	315.	27.	0.08
9.75	1366.	33.9	6.9	1699.	1.20	12.1	100.	26.0	60.8	314.	26.	0.08
9.90	1361.	34.7	6.6	1622.	1.25	14.9	117.	25.5	59.4	313.	24.	0.08
10.05	1347.	35.1	6.3	1555.	1.30	18.0	136.	24.9	58.1	310.	23.	0.07
10.20	1351.	33.3	6.4	1576.	1.30	17.9	137.	24.4	56.8	311.	23.	0.07
10.35	1430.	32.5	6.4	1565.	1.24	14.3	109.	24.6	57.4	329.	23.	0.07
10.50	1470.	32.8	6.2	1536.	1.20	11.9	89.	25.1	58.6	338.	23.	0.07
10.65	1654.	28.3	6.2	1531.	1.22	13.5	101.	22.5	52.4	381.	20.	0.05

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1624.	25.4	5.8	1422.	1.24	14.5	100.	19.8	46.2	374.	17.	0.04
10.95	1596.	28.6	5.9	1445.	1.19	11.7	82.	22.1	51.5	366.	19.	0.05
11.10	1580.	30.5	6.5	1595.	1.15	9.1	70.	24.7	57.6	363.	23.	0.06
11.25	1428.	30.7	5.5	1347.	1.21	12.6	82.	22.2	51.6	328.	18.	0.05
11.40	1382.	32.9	5.3	1294.	1.34	20.8	131.	22.2	51.7	318.	17.	0.05
11.55	1394.	35.1	5.2	1531.	1.48	29.1	216.	23.9	55.8	321.	22.	0.07
11.70	1383.	36.9	5.5	1341.	1.50	30.3	197.	25.3	58.9	318.	20.	0.06
11.85	1381.	35.5	5.2	1280.	1.17	10.2	64.	25.3	58.7	318.	19.	0.06
12.00	1343.	31.6	5.5	1353.	1.34	20.7	136.	24.9	57.8	309.	20.	0.06
12.15	1330.	37.0	5.0	1242.	1.44	26.9	162.	26.9	62.4	306.	20.	0.06
12.30	1357.	35.5	4.4	1081.	1.01	0.7	4.	25.9	60.1	312.	16.	0.05
12.45	1369.	29.4	4.4	1084.	1.01	0.4	2.	25.6	59.3	315.	16.	0.05
12.60	1369.	32.7	4.8	1182.	1.01	0.4	2.	25.5	59.1	315.	18.	0.06
12.75	1413.	35.9	4.3	1069.	1.01	0.3	2.	25.5	59.2	325.	16.	0.05
12.90	1515.	33.3	4.4	1088.	1.00	0.	0.	25.8	59.7	349.	16.	0.05
13.05	1617.	32.9	4.6	1143.	1.05	2.9	16.	25.9	59.8	372.	17.	0.05
13.20	1715.	31.7	5.2	1277.	1.12	7.4	46.	25.8	59.9	394.	19.	0.05
13.35	1557.	30.9	5.6	1369.	1.30	18.3	122.	25.7	59.9	358.	21.	0.06
13.50	1476.	34.9	5.8	1428.	1.23	13.7	95.	25.7	59.9	339.	22.	0.06
13.65	1447.	37.3	6.3	1560.	1.41	24.7	187.	25.7	59.9	333.	24.	0.07
13.80	1434.	37.8	6.2	1530.	1.40	24.0	178.	25.7	59.9	330.	23.	0.07
13.95	1394.	37.6	6.2	1521.	1.31	18.7	138.	25.7	59.8	321.	23.	0.07
14.10	1377.	37.6	6.3	1561.	1.39	23.6	179.	25.7	59.8	317.	24.	0.07
14.25	1367.	37.5	6.1	1510.	1.49	29.8	218.	25.6	59.7	314.	23.	0.07
14.40	1333.	37.4	6.0	1472.	1.49	29.7	212.	25.6	59.6	307.	22.	0.07
14.55	1353.	33.9	6.1	1492.	1.37	22.5	163.	25.6	59.6	311.	23.	0.07
14.70	1359.	32.7	6.0	1468.	1.38	22.9	163.	25.6	59.5	313.	22.	0.07
14.85	1392.	33.9	6.1	1496.	1.37	22.3	162.	25.6	59.5	320.	23.	0.07
15.00	1496.	32.6	6.2	1529.	1.33	20.1	149.	25.5	59.5	344.	23.	0.07
15.15	1595.	23.4	5.9	1458.	1.23	13.7	97.	22.2	51.7	367.	19.	0.05
15.30	1714.	26.9	5.5	1355.	1.07	4.5	29.	21.6	50.3	394.	17.	0.04
15.45	1771.	31.6	4.8	1176.	1.02	1.0	6.	25.8	59.8	407.	18.	0.04
15.60	1682.	26.9	4.1	1013.	1.01	0.5	2.	26.3	60.9	387.	16.	0.04
15.75	1507.	26.2	3.6	888.	1.01	0.4	2.	24.5	56.8	346.	13.	0.04
15.90	1391.	32.2	4.4	1080.	1.01	0.3	2.	25.0	57.9	320.	16.	0.05
16.05	1484.	39.7	4.4	1089.	1.00	0.	0.	25.0	58.0	341.	16.	0.05
16.20	1385.	38.6	4.1	1005.	1.03	2.1	10.	25.1	58.1	319.	15.	0.05
16.35	1364.	36.8	4.6	1129.	1.30	18.1	99.	25.1	58.3	314.	17.	0.05
16.50	1390.	37.2	4.4	1091.	1.37	22.2	118.	25.2	58.4	320.	16.	0.05

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1360.	37.5	4.3	1069.	1.32	19.7	102.	25.2	58.5	317.	16.	0.05
16.80	1343.	37.6	4.8	1168.	1.25	15.1	96.	25.3	58.7	309.	17.	0.06
16.95	1344.	37.4	5.3	1295.	1.21	12.9	81.	25.3	58.9	309.	19.	0.06
17.10	1398.	37.0	5.8	1425.	1.18	10.7	74.	25.4	59.1	321.	21.	0.07
17.25	1493.	35.8	5.5	1361.	1.13	8.0	53.	25.4	59.2	343.	20.	0.06
17.40	1532.	34.0	5.8	1421.	1.13	7.8	54.	25.5	59.3	352.	21.	0.06
17.55	1675.	32.4	5.5	1608.	1.28	16.8	131.	25.5	59.6	385.	24.	0.06
17.70	1756.	30.7	6.3	1543.	1.33	19.7	148.	25.3	58.9	404.	23.	0.06
17.85	1610.	29.3	5.1	1245.	1.38	23.1	140.	23.6	54.9	370.	17.	0.05
18.00	1417.	31.6	4.9	1196.	1.37	22.5	131.	20.2	46.9	326.	14.	0.04
18.15	1367.	34.7	4.8	1177.	1.57	34.8	199.	21.8	50.5	314.	15.	0.05
18.30	1377.	37.7	4.6	1133.	1.50	30.6	168.	23.0	53.5	317.	15.	0.05
18.45	1386.	38.4	4.6	1135.	1.43	26.1	144.	24.0	55.8	319.	16.	0.05
18.60	1344.	34.9	4.8	1152.	1.39	23.8	138.	25.0	58.1	309.	18.	0.06
18.75	1354.	30.9	4.5	1112.	1.23	13.8	75.	25.5	59.1	312.	17.	0.05
18.90	1367.	38.1	3.8	931.	1.05	2.8	13.	25.1	58.2	314.	14.	0.04
19.05	1379.	36.4	3.8	942.	1.01	0.3	1.	25.3	58.6	317.	14.	0.04
19.20	1284.	29.5	4.1	1002.	1.00	0.	0.	25.8	59.9	295.	15.	0.05
19.35	1286.	34.6	3.5	861.	1.00	0.	0.	24.9	57.7	296.	13.	0.04
19.50	1595.	37.1	3.1	771.	1.00	0.	0.	25.7	59.4	367.	12.	0.03
19.65	1607.	30.0	3.5	861.	1.01	0.6	2.	24.6	57.0	370.	12.	0.03
19.80	1645.	28.7	3.5	850.	1.01	0.7	3.	23.8	55.1	378.	12.	0.03
19.95	1796.	32.6	3.2	792.	1.01	0.6	2.	25.1	58.1	413.	12.	0.03
20.10	1565.	29.5	3.4	840.	1.01	0.4	2.	24.7	57.2	360.	12.	0.03
20.25	1402.	30.2	3.5	869.	1.05	2.9	12.	23.0	53.2	323.	12.	0.04
20.40	1367.	33.0	4.0	973.	1.11	7.0	33.	23.6	54.7	314.	13.	0.04
20.55	1452.	39.9	3.9	949.	1.09	5.8	27.	25.3	58.5	334.	14.	0.04
20.70	1464.	38.1	4.0	981.	1.07	4.5	22.	25.2	58.3	337.	14.	0.04
20.85	1325.	35.4	4.3	1051.	1.06	3.3	17.	24.5	56.8	305.	15.	0.05
21.00	1348.	36.0	4.4	1093.	1.04	2.1	11.	24.7	57.3	310.	16.	0.05
21.15	1371.	37.3	4.7	1144.	1.03	1.6	9.	25.4	58.8	315.	17.	0.05
21.30	1343.	36.4	4.6	1134.	1.05	3.1	17.	26.0	60.4	309.	17.	0.06
21.45	1360.	35.5	5.4	1333.	1.08	4.7	30.	26.1	60.6	313.	20.	0.07
21.60	1406.	34.5	5.1	1508.	1.10	6.3	46.	25.9	60.0	323.	23.	0.07
21.75	1455.	33.5	6.4	1562.	1.09	5.5	42.	25.5	59.4	335.	23.	0.07
21.90	1520.	32.6	6.5	1589.	1.08	4.9	38.	25.2	58.8	350.	24.	0.07
22.05	1650.	30.7	6.5	1589.	1.08	4.7	36.	24.9	58.1	380.	23.	0.06
22.20	1697.	29.3	6.8	1666.	1.07	4.4	36.	24.4	56.9	390.	24.	0.06
22.35	1597.	28.1	7.0	1726.	1.07	4.2	35.	23.7	55.4	367.	24.	0.07

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1398.	29.3	6.8	1665.	1.08	4.8	39.	23.0	53.8	321.	23.	0.07
22.65	1369.	33.8	6.5	1597.	1.14	8.7	67.	22.3	52.0	320.	21.	0.07
22.80	1396.	36.4	6.6	1612.	1.17	10.1	79.	20.5	48.0	321.	20.	0.06
22.95	1377.	36.1	5.9	1696.	1.18	11.2	92.	21.0	49.2	317.	21.	0.07
23.10	1372.	36.3	6.6	1611.	1.23	13.8	108.	24.5	57.3	316.	23.	0.07
23.25	1379.	36.7	6.1	1508.	1.21	13.0	95.	25.9	60.4	317.	23.	0.07
23.40	1382.	36.0	6.0	1482.	1.23	13.9	100.	26.6	61.8	318.	23.	0.07
23.55	1348.	34.9	6.1	1498.	1.30	18.4	134.	26.9	62.7	310.	24.	0.08
23.70	1359.	34.4	5.9	1454.	1.26	15.9	112.	24.4	56.8	313.	21.	0.07
23.85	1388.	34.5	5.9	1442.	1.24	14.3	100.	23.4	54.6	319.	20.	0.06
24.00	1449.	32.9	6.0	1480.	1.22	13.5	97.	24.4	57.0	333.	21.	0.06
24.15	1562.	30.9	6.0	1479.	1.24	14.4	103.	24.6	57.3	359.	21.	0.06
24.30	1660.	30.2	5.7	1397.	1.22	13.4	91.	25.1	58.4	382.	21.	0.05
24.45	1698.	29.8	5.5	1356.	1.16	9.5	63.	25.1	58.4	391.	20.	0.05
24.60	1484.	29.6	5.9	1442.	1.18	10.8	76.	25.1	58.5	341.	21.	0.06
24.75	1419.	31.5	6.0	1485.	1.26	15.7	113.	24.4	56.9	326.	21.	0.07
24.90	1413.	35.4	5.7	1397.	1.19	11.4	78.	23.4	54.4	325.	19.	0.06
25.05	1400.	37.5	5.8	1419.	1.18	10.8	75.	23.1	53.9	322.	19.	0.06
25.20	1384.	37.2	6.2	1513.	1.19	11.4	84.	24.5	57.0	318.	22.	0.07
25.35	1371.	36.7	5.6	1367.	1.22	13.3	88.	25.8	60.1	315.	21.	0.07
25.50	1363.	36.3	5.4	1333.	1.18	11.1	72.	25.8	59.9	314.	20.	0.06
25.65	1355.	35.4	6.0	1487.	1.20	12.4	90.	26.0	60.7	312.	23.	0.07
25.80	1350.	34.5	5.9	1461.	1.25	15.1	107.	26.0	60.6	311.	22.	0.07
25.95	1348.	34.0	5.5	1359.	1.18	10.9	72.	26.0	60.6	310.	21.	0.07
26.10	1378.	33.2	5.6	1368.	1.17	10.0	67.	25.8	60.1	317.	21.	0.07
26.25	1475.	32.2	6.2	1519.	1.17	10.0	74.	25.6	59.6	339.	23.	0.07
26.40	1517.	31.4	6.5	1588.	1.17	10.5	81.	25.4	59.1	349.	24.	0.07
26.55	1604.	31.2	5.8	1427.	1.14	8.6	59.	25.2	58.6	369.	21.	0.06
26.70	1706.	29.4	5.9	1440.	1.12	7.3	51.	25.0	58.3	392.	21.	0.05
26.85	1472.	29.5	6.3	1547.	1.16	9.9	74.	24.9	58.0	339.	23.	0.07
27.00	1395.	31.6	6.1	1510.	1.14	8.8	64.	24.2	56.4	321.	22.	0.07
27.15	1389.	34.4	6.1	1511.	1.11	6.8	50.	23.5	54.8	319.	21.	0.07
27.30	1386.	36.8	6.3	1561.	1.15	9.0	68.	22.8	53.2	319.	21.	0.07
27.45	1369.	36.3	6.5	1605.	1.11	6.4	50.	24.0	56.0	315.	23.	0.07
27.60	1357.	36.3	6.2	1532.	1.10	6.2	46.	25.3	59.1	312.	23.	0.07
27.75	1357.	36.3	6.3	1539.	1.10	6.3	47.	25.5	59.4	312.	23.	0.07
27.90	1344.	35.8	6.8	1662.	1.13	7.7	62.	25.5	59.5	309.	25.	0.08
28.05	1323.	34.9	6.7	1638.	1.13	7.8	62.	25.5	59.5	304.	25.	0.08
28.20	1330.	34.4	6.1	1505.	1.10	6.1	45.	25.5	59.4	306.	23.	0.07

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1391.	33.6	6.5	1587.	1.10	6.3	48.	25.5	59.5	320.	24.	0.07
28.50	1468.	32.4	6.6	1613.	1.11	6.4	50.	25.5	59.5	338.	24.	0.07
28.65	1526.	31.5	6.3	1547.	1.10	6.3	47.	25.5	59.3	351.	23.	0.07
28.80	1633.	30.6	6.1	1499.	1.09	5.2	38.	25.0	58.2	376.	22.	0.06
28.95	1590.	29.6	6.3	1550.	1.09	5.6	42.	24.5	57.1	366.	22.	0.06
29.10	1479.	29.4	6.4	1583.	1.14	8.7	67.	24.0	56.0	345.	22.	0.07
29.25	1412.	30.9	6.3	1557.	1.10	6.0	46.	23.5	54.9	325.	22.	0.07
29.40	1408.	33.7	6.3	1547.	1.11	6.5	49.	23.0	53.7	324.	21.	0.06
29.55	1391.	36.1	6.7	1655.	1.15	9.3	75.	23.4	54.7	320.	23.	0.07
29.70	1362.	36.2	6.6	1616.	1.17	10.5	82.	24.6	57.5	313.	24.	0.08
29.85	1353.	36.6	6.6	1621.	1.12	7.4	58.	25.2	58.8	311.	24.	0.08
30.00	1358.	36.4	6.9	1697.	1.14	8.3	68.	25.1	58.7	312.	25.	0.08
30.15	1365.	35.1	6.9	1685.	1.20	12.2	100.	25.0	58.5	314.	25.	0.08
30.30	1344.	34.8	6.6	1631.	1.18	10.8	86.	25.0	58.2	309.	24.	0.08
30.45	1306.	34.4	6.7	1638.	1.16	9.8	78.	24.9	58.1	300.	24.	0.08
30.60	1354.	33.5	6.9	1694.	1.19	11.8	97.	24.8	57.9	312.	25.	0.08
30.75	1443.	32.5	6.8	1677.	1.21	12.8	105.	24.7	57.7	332.	25.	0.07
30.90	1490.	31.3	6.3	1549.	1.20	12.2	91.	24.6	57.3	343.	22.	0.07
31.05	1598.	30.8	6.2	1528.	1.18	11.0	81.	24.1	56.2	367.	22.	0.06
31.20	1678.	30.5	6.5	1593.	1.18	11.2	87.	24.6	57.3	386.	23.	0.06
31.35	1451.	30.1	6.4	1565.	1.25	15.0	114.	23.8	55.6	334.	22.	0.07
31.5	1392.	30.3	6.0	1472.	1.21	13.0	93.	23.2	54.1	320.	20.	0.06
31.65	1381.	33.4	6.0	1485.	1.23	14.0	101.	22.5	52.5	318.	20.	0.06
31.80	1383.	36.4	6.1	1503.	1.34	20.7	151.	22.7	53.0	318.	20.	0.06
31.95	1370.	37.8	5.8	1416.	1.31	18.6	128.	23.6	54.9	315.	20.	0.06
32.10	1357.	37.5	5.2	1284.	1.28	16.8	105.	24.1	56.1	312.	18.	0.06
32.25	1346.	36.0	5.1	1244.	1.37	22.2	134.	24.4	56.6	310.	18.	0.06
32.40	1331.	36.7	5.2	1269.	1.35	21.4	132.	24.4	56.6	306.	18.	0.06
32.55	1303.	36.5	5.1	1246.	1.32	19.5	118.	24.8	57.5	300.	18.	0.06
32.70	1318.	35.6	5.1	1262.	1.31	18.7	115.	25.4	59.0	303.	19.	0.06
32.85	1412.	34.9	5.3	1299.	1.36	22.1	139.	25.0	58.2	325.	19.	0.06
33.00	1451.	34.3	5.5	1354.	1.36	21.6	142.	24.7	57.4	334.	20.	0.06
33.15	1465.	33.9	5.6	1374.	1.26	15.5	103.	24.7	57.4	337.	20.	0.06
33.30	1574.	32.6	5.6	1377.	1.25	15.1	101.	24.8	57.8	362.	20.	0.06
33.45	1738.	30.8	5.6	1377.	1.26	15.9	106.	24.8	57.7	400.	20.	0.05
33.60	1654.	30.4	5.4	1328.	1.34	20.9	135.	24.3	56.6	380.	19.	0.05
33.75	1410.	32.7	5.2	1266.	1.28	16.8	104.	23.8	55.3	324.	18.	0.05
33.90	1386.	35.4	5.4	1340.	1.31	18.7	121.	23.6	55.0	319.	19.	0.06
34.05	1386.	38.5	5.5	1363.	1.46	27.9	185.	23.6	54.9	319.	19.	0.06

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1388.	39.5	5.4	1325.	1.34	20.7	133.	24.1	56.1	319.	19.	0.06
34.35	1375.	39.2	5.3	1298.	1.36	22.0	138.	24.7	57.4	316.	19.	0.06
34.50	1351.	38.4	5.3	1292.	1.49	29.6	186.	25.2	58.7	311.	19.	0.06
34.65	1331.	38.3	5.2	1274.	1.43	26.1	161.	25.3	58.8	306.	19.	0.06
34.80	1309.	37.6	4.9	1198.	1.40	24.0	139.	25.3	58.7	301.	18.	0.06
34.95	1346.	37.0	5.0	1220.	1.48	29.0	172.	25.2	58.6	309.	18.	0.06
35.10	1408.	36.5	5.0	1230.	1.46	27.9	167.	25.2	58.5	324.	18.	0.06
35.25	1462.	36.3	4.8	1187.	1.41	24.6	142.	25.2	58.4	336.	18.	0.05
35.40	1535.	35.1	4.6	1139.	1.31	18.7	103.	25.1	58.3	353.	17.	0.05
35.55	1767.	33.4	4.9	1217.	1.37	22.4	132.	25.1	58.3	406.	18.	0.04
35.70	1765.	32.1	5.0	1220.	1.47	28.5	169.	25.1	58.3	406.	18.	0.04
35.85	1546.	31.8	4.8	1187.	1.34	20.6	119.	25.1	58.2	356.	17.	0.05
36.00	1415.	34.2	4.8	1172.	1.37	22.5	128.	24.4	56.5	325.	17.	0.05
36.15	1390.	37.0	4.7	1157.	1.51	31.2	175.	23.0	53.4	320.	16.	0.05
36.30	1394.	39.9	4.6	1135.	1.45	27.1	149.	22.8	52.9	321.	15.	0.05
36.45	1379.	40.1	4.5	1114.	1.41	25.1	136.	23.8	55.2	317.	16.	0.05
36.60	1364.	40.2	4.5	1106.	1.53	32.1	172.	25.3	58.7	314.	16.	0.05
36.75	1366.	40.2	4.5	1103.	1.63	38.5	206.	25.2	58.4	314.	16.	0.05
36.90	1349.	39.3	4.5	1100.	1.46	27.9	149.	25.0	58.0	310.	16.	0.05
37.05	1331.	39.1	4.4	1074.	1.45	27.5	143.	24.9	57.7	306.	16.	0.05
37.20	1363.	38.6	4.3	1054.	1.49	29.9	153.	24.9	57.7	313.	15.	0.05
37.35	1401.	38.1	4.2	1043.	1.52	31.5	160.	25.1	58.2	322.	15.	0.05
37.50	1443.	37.2	4.2	1033.	1.38	23.1	116.	25.4	58.8	332.	15.	0.05
37.65	1563.	35.4	4.2	1027.	1.37	22.2	111.	25.6	59.3	359.	15.	0.04
37.80	1737.	34.3	4.2	1042.	1.49	29.4	149.	25.7	59.5	399.	16.	0.04
37.95	1681.	33.7	4.3	1058.	1.58	35.2	181.	25.7	59.5	387.	16.	0.04
38.10	1568.	32.9	4.4	1073.	1.48	28.9	150.	25.7	59.5	361.	16.	0.04
38.25	1456.	34.0	4.4	1092.	1.53	31.8	169.	15.5	36.0	335.	10.	0.03
38.40	1390.	40.9	4.6	1130.	1.71	42.9	235.	42.8	99.2	320.	28.	0.09
38.55	1400.	41.5	4.8	1168.	1.71	42.9	243.	33.4	77.4	322.	23.	0.07
38.70	1387.	42.2	4.6	1139.	1.71	43.0	238.	29.6	68.7	319.	20.	0.06
38.85	1360.	40.8	4.5	1100.	1.71	43.0	230.	26.1	60.4	313.	17.	0.05
39.00	1348.	39.7	4.4	1076.	1.71	43.1	225.	72.2	166.9	310.	45.	0.15
39.15	1339.	39.0	4.4	1078.	1.71	43.1	226.	119.5	276.0	308.	75.	0.24
39.30	1341.	38.4	4.4	1081.	1.71	43.2	227.	120.2	277.6	308.	76.	0.25
39.45	1352.	37.2	4.4	1084.	1.71	43.2	227.	119.9	276.9	311.	76.	0.24
39.60	1383.	35.2	4.4	1086.	1.71	43.3	228.	118.3	273.3	318.	75.	0.24
39.75	1480.	33.3	4.7	1161.	1.71	43.3	244.	115.2	266.1	340.	78.	0.23
39.90	1625.	33.4	4.6	1119.	1.72	43.4	236.	117.0	270.2	374.	77.	0.20

RUN NUMBER- 33
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1794.	32.9	4.4	1093.	1.72	43.4	230.	117.6	271.7	413.	75.	0.18
40.20	1964.	30.4	4.5	1113.	1.63	38.3	207.	117.4	271.2	452.	76.	0.17
40.35	1485.	33.5	4.6	1132.	1.49	29.7	163.	80.1	185.0	342.	53.	0.16
40.50	1383.	41.5	4.1	1007.	1.42	25.5	125.	17.0	39.6	318.	10.	0.03
40.65	1376.	45.1	4.1	1010.	1.38	23.3	114.	13.3	30.9	317.	8.	0.03
40.80	1351.	47.6	4.1	997.	1.37	22.3	108.	14.5	33.6	311.	8.	0.03
40.95	1355.	45.2	3.9	960.	1.49	29.8	139.	11.6	27.0	312.	7.	0.02
41.10	1326.	46.3	3.8	927.	1.57	34.3	155.	6.5	15.1	305.	4.	0.01
41.25	1321.	46.1	3.8	935.	1.59	36.3	138.	8.0	18.7	304.	4.	0.01
41.40	1323.	44.4	3.9	963.	1.37	22.7	106.	6.6	15.5	304.	4.	0.01
41.55	1330.	44.2	3.8	946.	1.35	21.3	98.	7.5	17.6	306.	4.	0.01
41.70	1350.	44.0	4.0	976.	1.50	30.5	144.	8.1	19.0	310.	5.	0.02
41.85	1447.	41.3	4.1	1002.	1.41	24.7	120.	7.9	18.6	333.	5.	0.01
42.00	1527.	40.9	4.0	993.	1.35	21.2	102.	7.7	18.1	351.	5.	0.01
42.15	1625.	40.6	3.8	933.	1.56	34.0	154.	7.3	17.2	374.	4.	0.01
42.30	1587.	37.2	4.0	979.	1.64	39.0	185.	6.8	15.9	365.	4.	0.01
42.45	1486.	30.1	4.2	1043.	1.42	25.4	129.	6.1	14.4	342.	4.	0.01
42.60	1400.	36.1	4.0	976.	1.33	19.9	94.	5.4	12.6	322.	3.	0.01
42.75	1368.	41.5	3.8	926.	1.16	9.9	45.	4.6	10.9	315.	3.	0.01
42.90	1364.	46.4	3.7	913.	1.10	6.2	27.	4.5	10.7	314.	2.	0.01
43.05	1327.	36.8	3.7	900.	1.26	15.8	69.	5.3	12.4	305.	3.	0.01
43.20	1357.	41.8	3.5	852.	1.08	4.7	20.	5.9	13.9	312.	3.	0.01
43.35	1387.	46.6	3.1	769.	1.04	2.2	8.	6.0	14.1	319.	3.	0.01
43.50	1255.	49.0	3.1	767.	1.05	2.9	11.	4.4	10.4	289.	2.	0.01
43.65	1201.	40.8	3.2	795.	1.06	3.6	14.	4.0	9.4	276.	2.	0.01
43.80	1114.	45.0	3.5	854.	1.05	3.0	12.	4.8	11.3	256.	2.	0.01
43.95	1361.	48.0	3.8	927.	1.02	1.1	5.	5.6	13.3	313.	3.	0.01
44.10	1460.	39.5	3.6	891.	1.02	1.4	6.	4.6	10.8	336.	2.	0.01
44.25	1472.	33.8	2.9	716.	1.07	4.4	15.	3.5	8.2	339.	1.	0.00
44.40	1587.	43.8	3.2	787.	1.03	2.1	8.	3.3	7.8	365.	2.	0.00
44.55	1615.	31.9	3.2	776.	1.07	4.3	16.	3.5	8.2	371.	2.	0.00
44.70	1502.	31.6	2.5	604.	1.23	13.8	41.	3.8	8.9	345.	1.	0.00
44.85	1389.	38.7	2.8	689.	1.24	14.4	48.	3.5	8.3	320.	1.	0.00
45.00	1410.	49.2	2.7	676.	1.11	6.5	21.	3.4	8.0	324.	1.	0.00
45.15	1281.	43.9	2.1	528.	1.28	17.3	44.	3.5	8.2	295.	1.	0.00
45.30	1315.	45.8	2.0	501.	1.23	14.2	35.	3.3	7.8	302.	1.	0.00

LOCATION- MASONBORO INLET
DATE OF TEST- 9 22 78
RUN NUMBER- 33
SEGMENT NUMBER- 2
WATER DEPTH- 19 TO 20 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1417.	33.7	8.1	1983.	1.16	9.6	93.	25.0	58.6	326.	29.	0.09
0.15	1403.	32.7	8.2	2005.	1.12	7.1	69.	24.7	58.0	323.	29.	0.09
0.30	1444.	32.5	8.7	2135.	1.06	3.9	40.	24.7	58.2	332.	31.	0.09
0.45	1518.	31.6	7.4	1814.	1.13	7.9	70.	24.8	58.0	349.	27.	0.08
0.60	1576.	30.5	8.0	1958.	1.08	4.7	45.	24.8	58.2	363.	29.	0.08
0.75	1613.	29.4	8.8	2172.	1.06	3.3	35.	24.2	57.1	371.	31.	0.08
0.90	1715.	28.8	8.4	2059.	1.06	3.4	34.	23.6	55.6	394.	29.	0.07
1.05	1565.	28.8	7.5	1853.	1.08	4.7	43.	23.2	54.3	360.	25.	0.07
1.20	1483.	30.8	8.3	2045.	1.08	4.8	47.	23.1	54.4	341.	28.	0.08
1.35	1466.	34.0	8.4	2063.	1.04	2.3	23.	22.3	52.5	337.	27.	0.08
1.50	1456.	34.7	8.2	2012.	1.05	2.9	28.	21.3	50.1	335.	26.	0.08
1.65	1442.	34.6	8.2	2025.	1.09	5.4	53.	22.6	53.3	332.	27.	0.08
1.80	1439.	34.6	8.6	2117.	1.05	2.9	30.	25.0	58.7	331.	31.	0.09
1.95	1430.	35.0	8.6	2120.	1.05	2.8	29.	25.6	60.2	329.	32.	0.10
2.10	1418.	33.2	8.2	2012.	1.13	8.2	80.	25.6	60.1	326.	31.	0.09
2.25	1408.	32.8	7.8	1928.	1.10	5.9	56.	25.0	58.7	324.	29.	0.09
2.40	1399.	33.1	8.7	2149.	1.06	3.5	36.	24.5	57.8	322.	31.	0.10
2.55	1449.	32.2	8.4	2077.	1.08	4.9	50.	24.4	57.3	333.	30.	0.09
2.70	1499.	31.0	7.5	1854.	1.16	9.8	88.	24.2	56.7	345.	27.	0.08
2.85	1552.	29.6	8.6	2117.	1.15	9.1	94.	23.6	55.6	357.	30.	0.08
3.00	1658.	28.7	8.2	2015.	1.08	4.7	46.	22.7	53.5	381.	27.	0.07
3.15	1705.	28.5	7.6	1859.	1.12	7.0	64.	23.3	54.6	392.	26.	0.07
3.30	1636.	28.8	8.0	1955.	1.12	7.2	68.	23.1	54.2	376.	27.	0.07
3.45	1478.	29.1	8.5	2082.	1.08	5.1	51.	22.7	53.4	340.	28.	0.08
3.60	1464.	33.4	8.5	2095.	1.05	3.2	33.	21.8	51.5	337.	27.	0.08
3.75	1449.	33.7	7.8	1915.	1.09	5.7	53.	21.7	51.1	333.	25.	0.07
3.90	1471.	33.9	8.0	1968.	1.13	7.9	75.	22.5	53.0	338.	26.	0.08
4.05	1455.	34.0	8.6	2126.	1.04	2.6	27.	23.5	55.3	335.	30.	0.09
4.20	1442.	33.6	8.8	2152.	1.05	3.3	34.	24.2	57.0	332.	31.	0.09
4.35	1403.	32.9	8.3	2040.	1.16	9.8	97.	24.2	56.9	323.	29.	0.09
4.50	1385.	32.7	8.5	2094.	1.09	5.4	55.	24.3	57.3	318.	30.	0.10
4.65	1413.	32.4	9.0	2214.	1.05	2.8	30.	24.7	58.3	325.	33.	0.10
4.80	1460.	31.0	8.9	2200.	1.05	3.0	33.	24.3	57.3	336.	32.	0.09

RUN NUMBER- 33
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1502.	30.7	8.0	1966.	1.05	3.2	30.	23.3	54.8	345.	27.	0.08
5.10	1533.	29.4	9.0	2224.	1.05	3.2	35.	22.9	54.0	353.	30.	0.09
5.25	1629.	28.5	9.0	2201.	1.07	4.5	48.	23.0	54.2	375.	30.	0.08
5.40	1682.	27.7	8.1	1992.	1.11	6.9	67.	23.2	54.6	387.	28.	0.07
5.55	1619.	27.2	9.0	2225.	1.06	3.8	40.	22.9	54.0	372.	30.	0.08
5.70	1464.	28.4	9.1	2250.	1.04	2.6	29.	22.5	53.1	337.	30.	0.09
5.85	1460.	32.0	8.6	2103.	1.05	2.9	29.	22.3	52.6	336.	28.	0.08
6.00	1453.	33.9	8.4	2070.	1.07	4.0	40.	21.4	50.5	334.	26.	0.08
6.15	1442.	33.4	8.9	2197.	1.07	4.3	45.	21.8	51.5	332.	29.	0.09
6.30	1429.	33.1	9.4	2320.	1.03	2.0	22.	23.5	55.7	329.	33.	0.10
6.45	1432.	32.6	8.7	2147.	1.06	3.3	35.	24.5	57.6	329.	31.	0.10
6.60	1413.	32.4	8.6	2120.	1.08	4.8	50.	24.8	58.3	325.	31.	0.10
6.75	1395.	32.3	9.1	2249.	1.04	2.2	24.	24.8	58.5	321.	33.	0.10
6.90	1410.	32.1	9.5	2345.	1.04	2.3	26.	24.1	56.9	324.	34.	0.10
7.05	1477.	31.3	8.6	2113.	1.10	6.1	63.	22.8	53.7	340.	29.	0.08
7.20	1505.	30.6	9.0	2204.	1.07	4.0	43.	22.8	53.8	346.	30.	0.09
7.35	1535.	29.6	9.1	2242.	1.06	3.8	42.	22.5	53.2	353.	30.	0.09
7.50	1571.	28.7	8.5	2102.	1.12	7.1	73.	22.7	53.6	361.	29.	0.08
7.65	1689.	27.3	9.4	2075.	1.12	7.2	73.	22.8	53.6	388.	28.	0.07
7.80	1638.	27.7	8.7	2151.	1.08	5.1	54.	22.3	52.6	377.	29.	0.08
7.95	1485.	28.8	8.6	2111.	1.08	4.7	49.	22.2	52.3	342.	28.	0.08
8.10	1464.	30.9	8.1	1999.	1.09	5.2	50.	22.0	51.7	337.	26.	0.08
8.25	1449.	32.5	8.1	1981.	1.13	7.8	75.	20.3	47.8	333.	24.	0.07
8.40	1437.	33.2	8.6	2124.	1.08	5.0	52.	20.6	48.6	331.	26.	0.08
8.55	1427.	33.6	8.3	2043.	1.08	4.9	48.	22.4	52.7	328.	27.	0.08
8.70	1419.	33.4	8.2	2010.	1.12	7.4	72.	23.7	55.7	326.	28.	0.09
8.85	1413.	32.9	8.5	2079.	1.12	7.3	74.	23.9	56.2	325.	30.	0.09
9.00	1407.	32.3	9.0	2202.	1.10	6.1	65.	23.7	55.9	324.	31.	0.10
9.15	1413.	31.8	8.8	2175.	1.17	10.6	112.	23.4	55.3	325.	31.	0.09
9.30	1431.	31.0	8.0	1963.	1.18	10.8	103.	23.0	54.0	329.	27.	0.08
9.45	1452.	30.7	8.7	2140.	1.11	6.8	71.	23.0	54.3	334.	29.	0.09
9.60	1502.	30.0	8.9	2191.	1.12	7.2	77.	22.4	53.0	345.	29.	0.09
9.75	1625.	28.5	8.2	2019.	1.22	13.1	128.	22.2	52.3	374.	27.	0.07
9.90	1675.	27.9	8.2	2009.	1.16	9.4	92.	22.4	52.8	385.	27.	0.07
10.05	1652.	28.0	8.4	2065.	1.12	7.2	72.	22.7	53.5	380.	28.	0.07
10.20	1533.	27.7	8.1	1984.	1.11	6.4	62.	22.5	53.1	352.	27.	0.08
10.35	1461.	32.6	7.7	1882.	1.13	7.9	72.	21.6	50.7	336.	24.	0.07
10.50	1455.	33.6	7.7	1903.	1.12	7.3	68.	20.8	48.9	335.	24.	0.07
10.65	1443.	34.1	8.0	1971.	1.11	6.8	65.	21.2	49.8	332.	25.	0.07

RUN NUMBER- 33
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1429.	33.6	7.9	1934.	1.10	6.2	58.	22.3	52.5	329.	26.	0.08
10.95	1424.	33.1	7.7	1899.	1.17	10.4	96.	24.6	57.7	327.	28.	0.08
11.10	1421.	33.1	8.3	2038.	1.13	7.9	78.	24.6	57.9	327.	30.	0.09
11.25	1410.	32.9	8.0	1965.	1.12	7.4	71.	23.3	54.7	324.	27.	0.08
11.40	1407.	32.4	7.8	1907.	1.19	11.5	107.	23.2	54.4	324.	26.	0.08
11.55	1426.	31.5	7.7	1892.	1.17	10.6	97.	23.2	54.5	328.	26.	0.08
11.70	1459.	30.9	8.0	1959.	1.15	9.0	86.	23.5	55.2	335.	27.	0.08
11.85	1502.	30.3	7.7	1902.	1.18	11.1	103.	23.3	54.7	346.	26.	0.08
12.00	1591.	29.5	7.7	1884.	1.23	14.2	130.	23.4	54.9	366.	26.	0.07
12.15	1645.	28.5	7.6	1872.	1.19	11.8	107.	23.6	55.4	378.	26.	0.07
12.30	1669.	27.8	7.6	1861.	1.16	9.7	98.	22.9	53.6	384.	25.	0.07
12.45	1542.	29.5	7.5	1843.	1.16	9.8	88.	22.3	52.3	355.	24.	0.07
12.60	1455.	33.1	7.4	1820.	1.14	8.5	75.	21.8	51.2	335.	24.	0.07
12.75	1438.	34.1	7.3	1801.	1.15	9.0	79.	19.6	46.1	331.	21.	0.06
12.90	1430.	33.1	7.4	1813.	1.13	7.9	70.	20.1	47.3	329.	22.	0.07
13.05	1438.	34.0	7.3	1800.	1.14	8.4	73.	22.1	51.8	331.	24.	0.07
13.20	1428.	34.0	7.3	1791.	1.18	10.7	93.	23.2	54.3	328.	25.	0.08
13.35	1413.	32.1	7.4	1819.	1.18	10.8	95.	23.0	54.0	325.	25.	0.08
13.50	1392.	31.6	7.6	1865.	1.16	9.4	85.	23.2	54.5	320.	26.	0.08
13.65	1391.	32.8	7.5	1850.	1.19	11.7	105.	24.7	57.8	320.	27.	0.08
13.80	1393.	31.9	7.5	1854.	1.22	13.3	120.	24.0	56.3	320.	26.	0.08
13.95	1474.	30.5	7.4	1829.	1.16	9.7	86.	22.7	53.2	339.	25.	0.07
14.10	1533.	30.4	7.3	1807.	1.19	11.5	101.	24.2	56.6	352.	26.	0.07
14.25	1614.	28.9	7.5	1836.	1.18	11.1	99.	23.2	54.5	371.	25.	0.07
14.40	1692.	27.3	7.5	1853.	1.17	10.1	91.	22.4	52.6	389.	25.	0.06
14.55	1643.	28.5	7.5	1835.	1.13	7.8	70.	22.8	53.5	379.	25.	0.07
14.70	1505.	29.3	7.1	1753.	1.11	6.8	58.	23.3	54.5	346.	24.	0.07
14.85	1464.	30.0	7.3	1805.	1.16	9.9	87.	22.4	52.5	337.	24.	0.07
15.00	1454.	33.1	7.5	1836.	1.16	9.9	89.	21.1	49.5	334.	23.	0.07
15.15	1459.	35.0	7.6	1859.	1.12	7.2	65.	21.0	49.3	336.	23.	0.07
15.30	1445.	35.1	7.4	1817.	1.15	9.3	82.	22.6	53.0	332.	24.	0.07
15.45	1444.	35.1	7.3	1790.	1.17	10.3	89.	25.0	58.4	332.	26.	0.08
15.60	1428.	34.3	7.6	1871.	1.19	11.3	102.	25.5	59.7	329.	28.	0.09
15.75	1405.	34.2	7.6	1875.	1.16	9.5	86.	25.1	58.9	323.	28.	0.09
15.90	1384.	33.3	7.4	1825.	1.20	12.0	106.	24.8	58.1	318.	27.	0.08
16.05	1405.	33.0	7.5	1856.	1.20	12.2	110.	24.4	57.3	323.	27.	0.08
16.20	1453.	32.9	7.6	1871.	1.16	9.6	87.	24.0	56.2	334.	27.	0.08
16.35	1543.	31.5	7.3	1807.	1.17	10.5	92.	23.4	54.9	355.	25.	0.07
16.50	1608.	29.2	7.5	1833.	1.22	13.1	116.	22.9	53.8	370.	25.	0.07

RUN NUMBER- 33
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1641.	28.3	7.2	1767.	1.19	11.5	99.	22.9	53.5	377.	24.	0.06
16.80	1670.	29.5	7.0	1719.	1.15	9.0	75.	23.2	54.4	384.	24.	0.06
16.95	1569.	29.3	7.1	1757.	1.12	7.5	64.	22.9	53.7	361.	24.	0.07
17.10	1450.	31.5	7.2	1779.	1.18	11.0	95.	22.2	51.9	333.	23.	0.07
17.25	1431.	34.3	7.1	1750.	1.16	9.8	83.	21.3	50.0	329.	22.	0.07
17.40	1424.	35.3	7.1	1737.	1.13	7.9	67.	21.6	50.7	327.	22.	0.07
17.55	1427.	35.5	7.0	1730.	1.13	7.7	65.	22.5	52.8	328.	23.	0.07
17.70	1430.	34.6	7.0	1721.	1.23	14.0	117.	25.0	58.5	329.	26.	0.08
17.85	1408.	34.0	7.1	1741.	1.16	9.7	82.	25.3	59.2	324.	26.	0.08
18.00	1401.	34.5	7.1	1751.	1.16	9.6	81.	24.8	58.1	322.	26.	0.08
18.15	1396.	34.8	7.0	1731.	1.20	11.8	99.	24.4	57.0	321.	25.	0.08
18.30	1376.	31.9	6.9	1696.	1.31	18.6	153.	23.9	55.8	317.	24.	0.08
18.45	1387.	32.4	6.9	1697.	1.17	10.1	83.	24.0	56.1	319.	24.	0.08
18.60	1515.	31.5	6.9	1699.	1.18	11.0	90.	24.1	56.3	349.	24.	0.07
18.75	1611.	28.4	6.9	1700.	1.23	13.7	113.	21.8	51.1	371.	22.	0.06
18.90	1576.	25.3	6.6	1614.	1.18	10.8	84.	21.7	50.7	363.	21.	0.06
19.05	1619.	27.9	6.6	1615.	1.11	6.9	54.	23.4	54.7	372.	22.	0.06
19.20	1549.	28.9	6.9	1685.	1.11	6.7	55.	23.6	55.2	356.	24.	0.07
19.35	1479.	30.4	7.1	1738.	1.18	10.8	91.	23.1	54.1	340.	24.	0.07
19.50	1461.	33.4	7.2	1764.	1.12	7.5	64.	23.0	53.8	336.	24.	0.07
19.65	1456.	34.2	7.1	1746.	1.11	6.4	54.	23.9	55.9	330.	25.	0.07
19.80	1442.	35.2	7.1	1756.	1.12	7.1	61.	24.8	58.0	332.	26.	0.08
19.95	1418.	35.0	7.6	1879.	1.08	5.0	46.	25.3	59.3	326.	28.	0.09
20.10	1414.	35.3	8.0	1972.	1.12	7.0	67.	25.8	60.5	325.	30.	0.09
20.25	1414.	34.5	7.9	1940.	1.22	13.2	124.	25.9	60.7	325.	30.	0.09
20.40	1399.	34.2	7.1	1742.	1.15	8.8	74.	25.7	60.1	322.	26.	0.08
20.55	1377.	33.8	7.3	1791.	1.15	8.9	77.	25.5	59.7	317.	27.	0.09
20.70	1417.	33.1	7.5	1835.	1.21	12.7	113.	25.3	59.3	326.	28.	0.08
20.85	1492.	32.2	7.2	1778.	1.19	11.4	99.	25.1	58.8	343.	26.	0.08
21.00	1562.	30.5	7.2	1778.	1.16	9.9	86.	24.9	58.3	359.	26.	0.07
21.15	1660.	29.3	7.3	1786.	1.14	8.5	74.	24.7	57.9	382.	26.	0.07
21.30	1726.	29.5	7.2	1781.	1.18	10.8	93.	24.5	57.4	397.	26.	0.07
21.45	1621.	29.4	7.1	1752.	1.18	11.0	93.	24.3	56.9	373.	25.	0.07
21.60	1477.	30.6	7.0	1713.	1.18	11.0	92.	23.6	55.2	340.	24.	0.07
21.75	1442.	34.3	7.1	1755.	1.21	12.4	106.	22.0	51.6	332.	23.	0.07
21.90	1431.	35.8	7.1	1749.	1.23	13.8	117.	21.0	49.3	329.	22.	0.07
22.05	1419.	36.0	7.0	1718.	1.22	13.6	114.	22.5	52.7	326.	23.	0.07
22.20	1413.	36.2	7.3	1796.	1.15	8.8	77.	25.5	59.6	325.	27.	0.08
22.35	1413.	35.5	7.3	1807.	1.31	18.5	162.	25.9	60.7	325.	28.	0.09

SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1392.	34.3	6.6	1624.	1.29	17.7	140.	26.0	60.6	320.	25.	0.08
22.65	1356.	31.8	6.2	1519.	1.23	13.6	101.	26.0	60.6	312.	23.	0.07
22.80	1363.	33.4	6.3	1553.	1.23	13.7	103.	26.0	60.7	313.	24.	0.08
22.95	1430.	33.0	6.2	1518.	1.30	18.3	135.	25.9	60.5	329.	23.	0.07
23.10	1501.	30.9	6.0	1468.	1.24	14.3	102.	25.8	60.1	345.	22.	0.06
23.25	1572.	29.8	5.4	1322.	1.18	10.9	70.	23.6	55.0	361.	18.	0.05
23.40	1679.	30.3	6.0	1469.	1.12	7.1	51.	24.7	57.5	386.	21.	0.06
23.55	1757.	29.9	5.9	1460.	1.20	12.0	85.	25.9	60.3	404.	22.	0.06
23.70	1630.	28.4	5.6	1365.	1.15	9.2	61.	24.5	57.0	375.	20.	0.05
23.85	1447.	31.0	6.0	1471.	1.13	7.7	55.	24.5	57.0	332.	21.	0.06
24.00	1413.	34.9	6.4	1564.	1.16	9.7	74.	23.2	54.1	325.	21.	0.07
24.15	1417.	36.4	6.3	1559.	1.23	13.8	104.	22.9	53.5	326.	21.	0.06
24.30	1415.	36.5	5.6	1379.	1.18	10.8	73.	23.8	55.5	325.	19.	0.06
24.45	1411.	36.1	6.2	1533.	1.14	8.2	61.	25.1	58.5	324.	23.	0.07
24.60	1389.	35.6	5.8	1437.	1.26	15.9	111.	25.8	60.1	319.	22.	0.07
24.75	1392.	35.3	5.5	1351.	1.22	13.0	85.	26.4	61.3	320.	21.	0.07
24.90	1386.	34.8	6.2	1514.	1.18	10.7	79.	26.8	62.3	319.	24.	0.07
25.05	1410.	34.0	6.4	1583.	1.22	13.2	101.	26.5	61.8	324.	25.	0.08
25.20	1440.	33.2	6.5	1591.	1.20	11.9	92.	26.0	60.5	331.	24.	0.07
25.35	1461.	32.6	6.2	1532.	1.17	10.4	78.	25.8	60.0	336.	23.	0.07
25.50	1537.	32.1	6.2	1534.	1.16	9.5	71.	25.8	60.1	353.	23.	0.07
25.65	1651.	31.4	6.9	1687.	1.17	10.4	85.	25.7	59.9	380.	26.	0.07
25.80	1718.	30.6	6.8	1667.	1.18	10.9	88.	25.2	58.9	395.	25.	0.06
25.95	1531.	29.7	6.4	1564.	1.15	9.0	69.	24.8	57.8	352.	23.	0.06
26.10	1474.	30.3	6.3	1544.	1.11	6.9	52.	24.4	56.8	339.	22.	0.07
26.25	1436.	35.9	6.5	1601.	1.15	9.2	72.	24.0	56.0	330.	23.	0.07
26.40	1419.	36.0	6.6	1612.	1.18	11.0	86.	23.6	55.1	326.	23.	0.07
26.55	1416.	36.5	6.5	1600.	1.15	9.1	71.	23.6	55.2	326.	22.	0.07
26.70	1400.	36.2	6.8	1669.	1.16	9.9	80.	25.4	59.3	322.	25.	0.08
26.85	1390.	35.9	6.8	1663.	1.23	13.7	111.	26.9	62.7	320.	26.	0.08
27.00	1389.	35.5	6.4	1575.	1.19	11.3	87.	27.3	63.7	319.	25.	0.08
27.15	1385.	34.9	6.6	1616.	1.16	9.8	77.	26.9	62.7	318.	26.	0.08
27.30	1404.	34.1	6.6	1633.	1.25	15.3	121.	26.2	61.0	323.	25.	0.08
27.45	1472.	33.5	6.4	1580.	1.22	13.6	104.	25.8	60.1	339.	24.	0.07
27.60	1555.	32.6	6.4	1572.	1.18	11.0	84.	25.4	59.3	358.	24.	0.07
27.75	1632.	31.6	6.7	1642.	1.17	10.2	82.	25.0	58.5	375.	24.	0.06
27.90	1714.	30.1	6.6	1632.	1.18	11.0	87.	24.7	57.6	394.	24.	0.06
28.05	1742.	29.5	6.3	1544.	1.18	11.0	82.	24.3	56.7	401.	22.	0.06
28.20	1622.	29.3	6.2	1533.	1.14	8.4	62.	23.9	55.8	373.	22.	0.06

RUN NUMBER- 33
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1444.	31.9	6.5	1594.	1.12	7.3	56.	23.6	55.0	332.	22.	0.07
28.50	1437.	35.9	6.6	1614.	1.20	12.4	97.	23.2	54.2	331.	22.	0.07
28.65	1418.	36.9	5.8	1424.	1.22	13.2	91.	23.4	54.5	326.	20.	0.06
28.80	1420.	36.6	6.4	1574.	1.12	7.4	56.	25.2	58.9	327.	23.	0.07
28.95	1416.	36.1	6.7	1649.	1.21	12.5	100.	27.2	63.4	326.	27.	0.08
29.10	1400.	35.7	7.0	1714.	1.25	15.1	126.	27.1	63.2	322.	27.	0.09
29.25	1401.	35.2	5.9	1439.	1.15	9.2	65.	27.0	62.8	322.	23.	0.07
29.40	1408.	34.7	6.1	1508.	1.24	14.4	105.	26.9	62.5	324.	24.	0.07
29.55	1431.	34.3	6.2	1526.	1.27	16.3	121.	26.7	62.3	329.	24.	0.07
29.70	1442.	33.7	5.7	1411.	1.27	16.6	113.	26.6	62.0	332.	22.	0.07
29.85	1481.	33.1	5.2	1280.	1.21	12.9	80.	26.5	61.6	341.	20.	0.06
30.00	1669.	31.8	6.0	1467.	1.21	12.4	88.	26.4	61.5	384.	23.	0.06
30.15	1749.	31.0	5.9	1459.	1.23	13.8	97.	26.0	60.5	402.	22.	0.06
30.30	1749.	30.0	5.2	1285.	1.25	15.3	96.	24.4	56.7	402.	18.	0.05
30.45	1395.	27.6	5.2	1271.	1.28	17.2	106.	22.8	53.0	321.	17.	0.05
30.60	1386.	29.7	5.5	1356.	1.32	19.3	127.	21.7	50.6	319.	17.	0.05
30.75	1383.	35.5	5.3	1293.	1.35	21.3	134.	22.8	52.9	318.	17.	0.05
30.90	1416.	37.6	4.8	1189.	1.26	15.6	90.	24.2	56.2	326.	17.	0.05
31.05	1422.	37.3	5.1	1248.	1.17	10.3	63.	25.5	59.2	327.	19.	0.06
31.20	1406.	36.9	6.1	1501.	1.27	16.4	119.	26.9	62.7	323.	24.	0.07
31.35	1398.	36.9	5.7	1389.	1.23	14.1	95.	27.3	63.6	321.	22.	0.07
31.50	1390.	37.1	7.1	1749.	1.20	11.9	101.	27.1	63.3	320.	28.	0.09
31.65	1388.	36.8	6.9	1689.	1.24	14.4	118.	27.0	63.0	319.	27.	0.08
31.80	1396.	35.4	6.2	1515.	1.57	34.8	256.	26.9	62.7	320.	24.	0.08
31.95	1454.	34.6	6.3	1546.	1.32	19.1	144.	26.7	62.2	334.	24.	0.07
32.10	1523.	34.3	6.8	1662.	1.23	13.9	113.	26.6	62.0	350.	25.	0.07
32.25	1590.	33.9	6.6	1612.	1.22	13.5	106.	26.7	62.3	366.	25.	0.07
32.40	1694.	32.0	5.9	1457.	1.28	16.9	119.	26.8	62.4	390.	23.	0.06
32.55	1765.	29.6	6.1	1507.	1.23	14.2	104.	25.0	58.3	406.	22.	0.05
32.70	1739.	29.8	6.4	1566.	1.11	7.0	53.	23.7	55.3	400.	22.	0.05
32.85	1464.	30.8	6.6	1616.	1.17	10.3	80.	24.9	58.0	337.	24.	0.07
33.00	1439.	35.9	6.5	1591.	1.34	20.8	161.	24.9	58.1	331.	23.	0.07
33.15	1421.	35.3	6.2	1515.	1.44	26.4	194.	22.7	52.8	327.	20.	0.06
33.30	1398.	35.7	6.1	1497.	1.38	23.0	167.	24.4	56.9	322.	22.	0.07
33.45	1393.	37.0	6.0	1477.	1.33	19.7	141.	26.7	62.2	320.	23.	0.07
33.60	1387.	37.4	5.6	1375.	1.24	14.8	99.	27.5	63.8	319.	22.	0.07
33.75	1345.	33.6	5.4	1318.	1.15	9.0	58.	26.8	62.3	309.	21.	0.07
33.90	1380.	34.3	6.1	1489.	1.18	11.0	79.	26.1	60.9	317.	23.	0.07
34.05	1401.	34.7	5.8	1433.	1.19	11.4	79.	27.6	64.2	322.	23.	0.07

RUN NUMBER- 33
SEGMENT NUMBER- 2

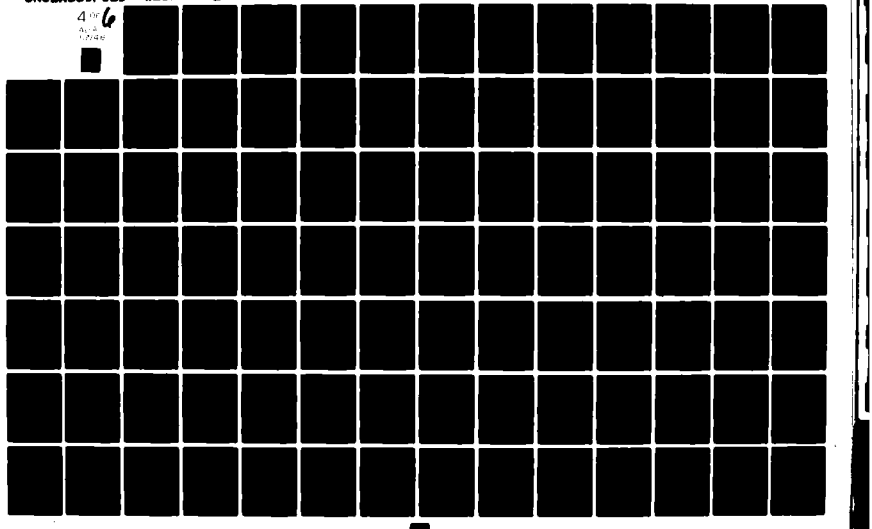
TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	1450.	34.3	5.6	1375.	1.18	11.1	74.	26.2	61.0	333.	21.	0.06
34.35	1493.	32.7	6.2	1529.	1.16	9.7	72.	24.1	56.3	343.	22.	0.06
34.50	1601.	30.6	6.2	1528.	1.13	7.6	56.	25.8	60.1	368.	23.	0.06
34.65	1706.	31.3	5.7	1399.	1.11	6.5	44.	25.7	59.9	392.	21.	0.05
34.8	1722.	31.[illegible]	4.6	1141.	1.10	6.3	35.	25.9	60.1	396.	17.	0.04
34.95	1573.	31.1	5.5	1350.	1.10	6.0	39.	27.0	62.8	362.	21.	0.06
35.10	1493.	33.5	5.8	1417.	1.11	6.4	44.	25.9	60.3	343.	22.	0.06
35.25	1420.	36.3	5.1	1258.	1.16	9.7	59.	23.6	54.9	327.	17.	0.05
35.40	1488.	38.2	5.7	1410.	1.09	5.4	37.	24.1	56.1	324.	20.	0.06
35.55	1418.	38.2	6.2	1520.	1.08	4.9	36.	25.9	60.2	326.	23.	0.07
35.70	1403.	37.5	5.7	1398.	1.42	25.4	172.	26.9	62.5	323.	22.	0.07
35.85	1394.	37.0	6.1	1508.	1.28	16.8	123.	27.1	63.2	321.	24.	0.08
36.00	1397.	36.7	6.5	1589.	1.15	9.0	70.	26.6	62.0	321.	25.	0.08
36.15	1395.	36.4	6.1	1504.	1.30	17.9	131.	26.6	61.9	321.	24.	0.07
36.30	1396.	35.9	5.6	1378.	1.31	18.7	125.	26.4	61.5	321.	21.	0.07
36.45	1398.	35.2	5.1	1262.	1.16	9.5	58.	26.4	61.2	322.	20.	0.06
36.60	1493.	33.9	6.3	1556.	1.14	8.7	65.	26.4	61.6	343.	24.	0.07
36.75	1625.	32.7	6.3	1551.	1.16	9.5	72.	26.1	60.9	374.	24.	0.06
36.90	1709.	31.8	5.8	1426.	1.22	13.1	90.	26.2	60.9	393.	22.	0.06
37.05	1741.	31.4	5.1	1248.	1.14	8.4	51.	26.2	60.9	401.	19.	0.05
37.20	1587.	31.3	6.0	1466.	1.10	5.8	41.	26.1	60.7	365.	23.	0.06
37.35	1448.	33.0	5.9	1443.	1.19	11.6	81.	25.6	59.7	333.	22.	0.07
37.50	1428.	36.5	5.8	1428.	1.12	7.0	49.	24.1	56.1	328.	20.	0.06
37.65	1414.	38.9	6.5	1610.	1.09	5.4	42.	23.7	55.3	325.	23.	0.07
37.80	1430.	38.1	6.8	1665.	1.15	9.0	73.	24.9	58.3	329.	25.	0.07
37.95	1422.	37.4	6.0	1464.	1.19	11.3	81.	26.4	61.6	327.	23.	0.07
38.10	1388.	36.8	6.2	1516.	1.11	6.5	48.	26.5	61.7	319.	24.	0.07
38.25	1399.	36.3	6.4	1567.	1.11	6.4	49.	26.7	62.3	322.	25.	0.08
38.40	1394.	35.4	6.3	1548.	1.12	7.4	56.	27.4	63.9	321.	25.	0.08
38.55	1396.	34.0	6.1	1498.	1.14	8.4	61.	26.7	62.3	321.	24.	0.07
38.70	1417.	33.2	6.2	1532.	1.12	7.2	53.	26.2	61.0	326.	24.	0.07
38.85	1555.	32.5	6.6	1615.	1.15	8.8	69.	26.3	61.3	358.	25.	0.07
39.00	1607.	32.0	6.7	1655.	1.16	9.8	79.	26.0	60.7	370.	25.	0.07
39.15	1702.	30.5	6.5	1592.	1.15	9.3	72.	25.7	59.9	391.	24.	0.06
39.30	1747.	30.1	6.5	1603.	1.11	6.5	50.	25.4	59.4	402.	24.	0.06
39.45	1529.	30.1	6.6	1621.	1.14	8.6	68.	25.2	58.8	352.	24.	0.07
39.60	1482.	32.0	6.6	1634.	1.18	11.2	89.	24.8	57.9	341.	24.	0.07
39.75	1454.	34.5	6.5	1601.	1.13	7.9	61.	24.3	56.6	334.	23.	0.07
39.90	1435.	37.6	6.8	1662.	1.13	7.9	64.	25.2	58.9	330.	25.	0.08

RUN NUMBER- 33
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1412.	38.0	6.8	1674.	1.20	11.9	97.	25.7	60.0	325.	25.	0.08
40.20	1411.	37.5	6.8	1676.	1.14	8.7	71.	26.0	60.7	324.	26.	0.08
40.35	1395.	37.1	7.0	1720.	1.12	7.5	63.	25.4	61.7	321.	27.	0.08
40.50	1407.	36.2	7.0	1716.	1.13	8.0	67.	26.6	62.2	324.	27.	0.08
40.65	1391.	35.4	6.9	1698.	1.20	12.0	99.	26.3	61.4	320.	26.	0.08
40.80	1386.	35.1	6.9	1700.	1.15	9.1	75.	26.0	60.7	319.	26.	0.08
40.95	1451.	34.7	6.9	1695.	1.15	8.9	73.	26.0	60.6	334.	26.	0.08
41.10	1507.	34.2	6.8	1683.	1.19	11.6	94.	26.0	60.7	347.	26.	0.07
41.25	1549.	32.4	6.8	1676.	1.18	10.8	88.	25.4	59.3	356.	25.	0.07
41.40	1645.	31.4	6.8	1672.	1.13	7.8	63.	24.3	56.8	378.	24.	0.06
41.55	1772.	30.9	6.8	1663.	1.13	7.7	62.	24.8	57.9	407.	24.	0.06
41.70	1664.	31.0	6.7	1644.	1.17	10.0	80.	25.2	58.7	383.	24.	0.06
41.85	1525.	33.2	6.7	1636.	1.50	30.3	241.	24.6	57.4	351.	24.	0.07
42.00	1446.	37.2	7.2	1772.	1.62	37.8	325.	23.7	55.4	333.	25.	0.08
42.15	1415.	37.4	6.8	1681.	1.19	11.2	92.	23.7	55.4	325.	24.	0.07
42.30	1411.	37.1	6.7	1652.	1.24	14.4	115.	25.0	58.4	325.	24.	0.08
42.45	1415.	36.8	6.8	1678.	1.19	11.8	96.	26.3	61.4	326.	26.	0.08
42.60	1408.	36.5	7.2	1766.	1.18	10.7	92.	26.4	61.8	324.	28.	0.09
42.75	1402.	36.0	7.2	1768.	1.22	13.4	115.	26.6	62.2	323.	28.	0.09
42.90	1383.	35.8	6.7	1650.	1.26	15.7	125.	25.9	60.5	318.	25.	0.08
43.05	1415.	35.6	7.4	1818.	1.40	24.4	215.	26.2	61.2	325.	28.	0.09
43.20	1499.	34.7	7.3	1800.	1.39	23.7	207.	26.0	60.9	345.	28.	0.08
43.35	1546.	33.3	7.0	1716.	1.25	14.9	124.	25.8	60.2	356.	26.	0.07
43.50	1570.	32.3	6.6	1618.	1.27	16.4	128.	25.4	59.2	361.	24.	0.07
43.65	1644.	31.4	7.0	1726.	1.24	14.4	121.	25.2	59.0	378.	26.	0.07
43.80	1772.	30.9	6.8	1660.	1.75	45.4	366.	25.2	58.8	407.	25.	0.06
43.95	1486.	30.5	6.5	1607.	1.42	25.5	199.	25.4	59.3	342.	24.	0.07
44.10	1439.	34.3	6.8	1667.	1.43	25.9	209.	24.3	56.8	331.	24.	0.07
44.25	1429.	37.4	7.2	1765.	1.34	20.5	176.	24.0	56.1	329.	25.	0.08
44.40	1421.	38.5	7.3	1797.	1.29	17.8	155.	24.3	56.9	327.	26.	0.08
44.55	1418.	37.4	6.9	1691.	1.30	18.1	149.	26.1	60.9	326.	26.	0.08
44.70	1415.	37.2	7.0	1716.	1.23	14.2	118.	26.6	62.1	326.	27.	0.08
44.85	1382.	37.0	7.4	1814.	1.25	15.4	136.	26.5	61.9	318.	28.	0.09
45.00	1393.	36.6	6.6	1620.	1.31	19.0	150.	26.1	60.9	320.	25.	0.08
45.15	1383.	36.1	6.7	1652.	1.30	18.2	146.	26.3	61.5	318.	26.	0.08
45.30	1392.	35.1	6.8	1672.	1.26	15.9	129.	26.4	61.7	320.	26.	0.08

AD-A117 146 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER

UNCLASSIFIED WES/TR/HL-82-8-APP-C NL



LOCATION- MASONBORO INLET
DATE OF TEST- 9 25 78
RUN NUMBER- 34
SEGMENT NUMBER- 1
WATER DEPTH- 18 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1656.	34.2	10.2	2509.	1.08	4.6	56.	30.2	71.4	381.	45.	0.12
0.15	1720.	33.8	10.1	2483.	1.08	4.8	58.	30.4	71.7	396.	45.	0.11
0.30	1644.	34.3	10.3	2545.	1.09	5.4	67.	30.5	72.2	378.	47.	0.12
0.45	1483.	38.0	10.5	2574.	1.10	5.9	74.	30.7	72.4	341.	47.	0.14
0.60	1474.	40.6	10.5	2571.	1.08	5.0	63.	30.7	72.5	339.	47.	0.14
0.75	1466.	41.6	10.3	2533.	1.10	5.9	73.	30.7	72.6	337.	47.	0.14
0.90	1457.	40.6	10.2	2514.	1.15	8.8	108.	30.8	72.6	335.	46.	0.14
1.05	1430.	40.2	10.4	2551.	1.13	7.7	95.	30.8	72.8	329.	47.	0.14
1.20	1410.	40.0	10.2	2516.	1.13	7.8	96.	30.8	72.7	324.	46.	0.14
1.35	1411.	39.6	10.0	2465.	1.17	10.3	123.	30.8	72.6	324.	45.	0.14
1.50	1443.	38.6	10.5	2593.	1.22	13.6	171.	30.7	72.6	332.	48.	0.14
1.65	1486.	37.0	10.2	2499.	1.14	8.4	101.	30.7	72.4	342.	46.	0.13
1.80	1541.	35.3	9.9	2443.	1.17	10.1	120.	30.7	72.3	355.	45.	0.13
1.95	1665.	34.5	10.6	2597.	1.20	12.2	154.	30.5	72.2	383.	48.	0.12
2.10	1742.	34.4	10.6	2603.	1.18	10.9	138.	30.4	71.9	401.	48.	0.12
2.25	1662.	34.2	10.4	2561.	1.15	9.3	115.	30.3	71.6	382.	46.	0.12
2.40	1479.	40.1	10.2	2500.	1.13	8.0	97.	30.2	71.2	340.	45.	0.13
2.55	1462.	40.6	10.1	2488.	1.19	11.3	136.	30.2	71.2	336.	45.	0.13
2.70	1458.	40.9	10.6	2610.	1.23	13.7	174.	30.2	71.5	335.	47.	0.14
2.85	1455.	40.9	10.5	2583.	1.17	10.5	132.	30.3	71.5	335.	47.	0.14
3.00	1443.	40.5	10.4	2567.	1.20	11.9	149.	30.3	71.6	332.	47.	0.14
3.15	1414.	39.8	10.4	2556.	1.35	21.4	265.	30.3	71.6	325.	47.	0.14
3.30	1423.	39.9	10.5	2582.	1.28	16.9	212.	30.4	71.7	327.	47.	0.14
3.45	1473.	39.7	10.4	2546.	1.25	15.0	185.	30.4	71.8	339.	46.	0.14
3.60	1525.	37.9	10.3	2537.	1.33	20.2	249.	30.4	71.8	351.	46.	0.13
3.75	1581.	36.3	10.7	2621.	1.30	18.3	233.	30.4	72.0	364.	48.	0.13
3.90	1720.	35.5	10.6	2596.	1.28	17.1	215.	30.5	72.0	396.	48.	0.12
4.05	1619.	34.9	10.1	2485.	1.26	15.8	190.	30.5	71.9	372.	45.	0.12
4.20	1518.	37.3	10.1	2487.	1.27	16.4	198.	30.5	71.9	349.	45.	0.13
4.35	1473.	41.4	10.1	2473.	1.31	18.8	226.	30.5	71.8	339.	45.	0.13
4.50	1444.	40.8	9.6	2366.	1.25	15.3	175.	30.5	71.7	332.	43.	0.13
4.65	1442.	41.2	9.4	2300.	1.27	16.6	185.	30.4	71.6	332.	42.	0.13
4.80	1441.	41.5	10.0	2450.	1.30	18.3	218.	30.4	71.8	331.	45.	0.13

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1434.	38.7	10.3	2525.	1.33	20.1	246.	30.4	71.9	330.	46.	0.14
5.10	1401.	32.0	9.8	2411.	1.34	20.3	238.	30.4	71.7	322.	44.	0.14
5.25	1275.	38.2	8.4	2074.	1.13	8.1	82.	30.5	71.4	293.	38.	0.13
5.40	1401.	42.7	6.9	1686.	1.02	1.4	11.	30.5	71.1	322.	30.	0.09
5.55	1539.	31.8	8.5	2080.	1.01	0.3	3.	30.5	71.5	354.	38.	0.11
5.70	1528.	31.0	7.1	1736.	1.00	0.	0.	30.5	71.2	351.	31.	0.09
5.85	1808.	35.1	5.7	1392.	1.00	0.	0.	30.6	71.0	416.	25.	0.06
6.00	1647.	33.9	7.0	1714.	1.00	0.	0.	30.6	71.4	379.	31.	0.08
6.15	1533.	33.7	6.3	1544.	1.00	0.	0.	30.7	71.4	353.	28.	0.08
6.30	1463.	37.1	6.5	1590.	1.00	0.	0.	30.8	71.6	336.	29.	0.09
6.45	1438.	43.9	6.9	1688.	1.00	0.	0.	30.8	71.8	331.	31.	0.09
6.60	1474.	44.3	5.4	1337.	1.00	0.	0.	30.9	71.7	339.	24.	0.07
6.75	1429.	41.9	7.2	1760.	1.00	0.	0.	30.9	72.2	329.	32.	0.10
6.90	1407.	40.4	8.1	1982.	1.13	7.6	73.	31.0	72.5	324.	36.	0.11
7.05	1395.	40.0	10.0	2466.	1.34	20.6	246.	31.1	73.2	321.	46.	0.14
7.20	1402.	39.6	10.2	2516.	1.22	13.6	166.	31.1	73.4	322.	47.	0.15
7.35	1425.	38.9	10.1	2483.	1.30	18.1	218.	31.2	73.5	328.	46.	0.14
7.50	1554.	36.8	10.2	2511.	1.36	22.1	270.	31.2	73.7	357.	47.	0.13
7.65	1655.	35.3	10.8	2668.	1.43	25.9	336.	31.2	73.9	381.	50.	0.13
7.80	1797.	35.0	10.3	2543.	1.31	18.6	230.	31.3	73.8	413.	46.	0.12
7.95	1604.	36.0	9.9	2442.	1.28	17.2	203.	31.3	73.6	369.	46.	0.12
8.10	1495.	39.9	10.3	2522.	1.38	22.8	280.	31.3	73.8	344.	47.	0.14
8.25	1472.	40.9	11.1	2739.	1.44	26.5	353.	31.3	74.1	339.	52.	0.15
8.40	1458.	41.1	10.5	2589.	1.29	17.6	221.	31.3	73.9	335.	49.	0.15
8.55	1444.	41.5	9.6	2362.	1.26	16.1	184.	31.3	73.6	332.	44.	0.13
8.70	1423.	41.6	10.8	2653.	1.49	29.7	383.	31.3	74.0	327.	50.	0.15
8.85	1383.	41.3	10.5	2580.	1.52	31.4	394.	31.3	73.9	318.	49.	0.15
9.00	1338.	41.2	9.9	2444.	1.38	23.1	274.	31.3	73.8	308.	46.	0.15
9.15	1420.	40.6	9.7	2377.	1.43	25.8	298.	31.3	73.7	327.	45.	0.14
9.30	1538.	37.5	9.8	2411.	1.50	30.0	351.	31.3	73.8	354.	45.	0.13
9.45	1695.	33.7	11.0	2702.	1.41	25.1	329.	31.3	74.2	390.	51.	0.13
9.60	1722.	35.3	9.9	2439.	1.33	20.1	238.	31.4	73.9	396.	46.	0.12
9.75	1709.	36.4	9.8	2401.	1.35	21.1	246.	31.4	73.9	393.	45.	0.11
9.90	1658.	40.0	10.2	2516.	1.45	27.4	335.	31.4	74.1	381.	48.	0.12
10.05	1494.	43.1	9.4	2303.	1.29	17.4	195.	31.5	73.9	344.	43.	0.13
10.20	1474.	45.3	9.6	2357.	1.30	18.3	210.	31.5	74.1	339.	44.	0.13
10.35	1459.	43.8	10.2	2514.	1.40	24.2	295.	31.5	74.4	336.	48.	0.14
10.50	1436.	44.0	9.7	2387.	1.33	19.7	228.	31.6	74.3	330.	45.	0.14
10.65	1391.	38.2	9.0	2224.	1.34	20.6	222.	31.6	74.2	320.	42.	0.13

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISC. PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1387.	43.9	8.9	2182.	1.42	25.4	269.	31.6	74.2	319.	41.	0.13
10.95	1422.	44.2	8.8	2159.	1.43	25.8	270.	31.7	74.2	327.	41.	0.12
11.10	1470.	43.8	6.9	1701.	1.26	15.8	131.	31.7	73.8	338.	32.	0.09
11.25	1563.	41.3	6.9	1709.	1.22	13.1	108.	31.7	73.9	360.	32.	0.09
11.40	1710.	39.7	7.7	1887.	1.42	25.2	230.	31.8	74.2	393.	36.	0.09
11.55	1838.	37.9	8.8	2153.	1.41	24.8	260.	31.8	74.6	423.	41.	0.10
11.70	1881.	36.2	9.1	2245.	1.14	8.4	92.	31.9	74.8	433.	43.	0.10
11.85	1526.	40.6	8.3	2041.	1.22	13.2	131.	31.9	74.7	351.	39.	0.11
12.00	1458.	44.6	8.4	2069.	1.19	11.8	118.	32.0	74.9	335.	39.	0.12
12.15	1463.	44.4	8.3	2029.	1.14	8.6	84.	32.0	74.9	336.	39.	0.11
12.30	1467.	42.5	7.8	1921.	1.14	8.7	81.	32.1	75.0	338.	36.	0.11
12.45	1432.	43.6	9.1	2247.	1.17	10.3	112.	32.1	75.4	329.	43.	0.13
12.60	1429.	44.5	8.3	2044.	1.07	4.3	43.	32.2	75.3	329.	39.	0.12
12.75	1433.	40.4	6.3	1540.	1.02	1.3	10.	32.2	75.0	330.	29.	0.09
12.90	1443.	33.7	6.5	1606.	1.05	3.3	25.	32.3	75.2	332.	31.	0.09
13.05	1429.	38.1	6.5	1598.	1.04	2.5	20.	32.4	75.3	329.	30.	0.09
13.20	1499.	41.4	6.9	1691.	1.01	0.8	7.	32.4	75.5	345.	32.	0.09
13.35	1639.	39.5	7.4	1819.	1.00	0.	0.	32.5	75.8	377.	35.	0.09
13.50	1811.	38.3	7.7	1892.	1.05	3.0	28.	32.6	76.1	417.	36.	0.09
13.65	1752.	40.0	7.7	1882.	1.14	8.2	75.	32.7	76.3	403.	36.	0.09
13.80	1522.	43.9	8.1	1998.	1.34	20.7	200.	32.8	76.7	350.	39.	0.11
13.95	1476.	46.9	8.8	2158.	1.30	18.4	193.	32.9	77.1	340.	42.	0.12
14.10	1441.	43.4	9.4	2318.	1.33	20.3	228.	33.0	77.5	331.	46.	0.14
14.25	1450.	45.3	8.9	2182.	1.37	22.1	235.	33.1	77.5	333.	43.	0.13
14.40	1456.	46.1	7.7	1890.	1.39	23.6	217.	33.2	77.5	335.	37.	0.11
14.55	1392.	45.5	7.4	1827.	1.40	24.5	217.	33.3	77.6	320.	36.	0.11
14.70	1397.	44.8	9.4	2302.	1.47	28.5	319.	33.4	78.4	321.	46.	0.14
14.85	1431.	44.7	9.9	2436.	1.44	26.6	314.	33.5	78.8	329.	49.	0.15
15.00	1522.	40.8	10.0	2459.	1.42	25.6	306.	33.6	79.0	350.	50.	0.14
15.15	1632.	40.2	9.4	2313.	1.45	27.5	309.	33.7	79.1	375.	47.	0.12
15.30	1890.	37.2	9.4	2311.	1.49	29.5	331.	33.8	79.3	435.	47.	0.11
15.45	1779.	35.5	9.1	2229.	1.39	23.4	253.	33.7	79.1	409.	45.	0.11
15.60	1563.	38.1	8.0	1973.	1.36	21.9	210.	33.7	78.7	359.	39.	0.11
15.75	1432.	44.4	7.8	1929.	1.27	16.4	153.	33.6	78.5	329.	38.	0.12
15.90	1443.	48.3	7.6	1865.	1.14	8.6	77.	33.6	78.4	332.	37.	0.11
16.05	1480.	48.4	5.7	1397.	1.02	1.2	8.	33.5	77.9	340.	27.	0.08
16.20	1457.	37.2	5.1	1264.	1.13	7.7	47.	33.5	77.7	335.	25.	0.07
16.35	1404.	42.4	5.9	1455.	1.17	10.1	71.	33.4	77.7	323.	29.	0.09
16.50	1181.	51.0	5.7	1401.	1.13	7.7	52.	33.4	77.5	272.	27.	0.10

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1307.	45.8	7.3	1789.	1.09	5.3	46.	33.3	77.8	3[illegible]1.	35.	0.12
16.8[illegible]	1439.	45.2	7.8	1922.	1.11	6.9	64.	33.3	77.8	331.	38.	0.11
16.95	1507.	41.5	8.0	1962.	1.24	14.6	139.	33.3	77.7	347.	39.	0.11
17.10	1842.	35.8	8.1	2002.	1.29	17.5	170.	33.2	77.7	424.	39.	0.09
17.25	2122.	33.8	7.4	1813.	1.41	25.0	220.	33.3	77.7	488.	36.	0.07
17.40	1609.	39.6	7.7	1883.	1.61	37.3	341.	33.4	77.9	370.	37.	0.10
17.55	1514.	45.6	8.0	1967.	1.48	28.8	275.	33.5	78.2	348.	39.	0.11
17.70	1468.	41.7	6.9	1694.	1.33	19.8	163.	33.5	78.1	338.	34.	0.10
17.85	1426.	39.6	6.5	1590.	1.40	24.5	189.	33.5	78.1	328.	32.	0.10
18.00	1380.	43.9	7.8	1921.	1.28	16.8	157.	33.7	78.6	317.	38.	0.12
18.15	1409.	47.6	5.7	1401.	1.02	1.3	9.	33.7	78.3	324.	28.	0.09
18.30	1428.	37.2	5.6	1366.	1.00	0.	0.	33.8	78.4	328.	27.	0.08
18.45	1423.	41.2	6.0	1469.	1.01	0.3	2.	33.5	77.8	327.	29.	0.09
18.60	1276.	45.0	6.4	1569.	1.00	0.	0.	33.1	77.1	294.	31.	0.10
18.75	1398.	48.8	6.6	1629.	1.00	0.	0.	32.8	76.2	322.	31.	0.10
18.90	1814.	32.8	6.9	1690.	1.00	0.	0.	32.4	75.4	417.	32.	0.08
19.05	1702.	33.5	7.4	1816.	1.00	0.	0.	32.2	75.1	391.	34.	0.09
19.20	1703.	38.3	5.1	1266.	1.00	0.	0.	32.5	75.5	392.	24.	0.06
19.35	1607.	38.3	5.3	1297.	1.00	0.	0.	32.9	76.4	370.	25.	0.07
19.50	1504.	39.1	5.4	1324.	1.01	0.8	5.	33.3	77.2	346.	26.	0.07
19.65	1437.	44.0	7.5	1854.	1.03	2.1	19.	33.7	78.5	331.	37.	0.11
19.80	1366.	46.5	6.3	1557.	1.02	1.3	10.	34.0	79.1	314.	31.	0.10
19.95	1526.	48.6	5.8	1420.	1.01	0.3	2.	34.4	79.9	351.	29.	0.08
20.10	1428.	48.4	6.3	1548.	1.03	1.6	12.	34.8	80.8	328.	32.	0.10
20.25	1457.	47.1	7.5	1837.	1.06	3.4	30.	35.1	81.9	335.	38.	0.11
20.40	1359.	46.1	8.6	2118.	1.09	5.3	54.	35.5	83.0	313.	45.	0.14
20.55	1433.	45.2	9.5	2344.	1.12	7.2	81.	35.9	84.1	330.	50.	0.15
20.70	1566.	43.1	8.8	2168.	1.15	9.2	97.	36.2	84.8	360.	47.	0.13
20.85	1700.	41.3	9.3	2292.	1.23	13.7	152.	36.3	85.1	391.	49.	0.13
21.00	1855.	39.6	9.8	2408.	1.20	12.4	145.	36.0	84.5	427.	52.	0.12
21.15	1882.	33.1	9.0	2210.	1.18	11.0	119.	33.9	79.4	433.	44.	0.10
21.30	1480.	42.1	7.7	1888.	1.26	15.6	143.	35.7	83.3	341.	40.	0.12
21.45	1481.	44.9	9.0	2217.	1.39	23.4	251.	35.8	84.0	341.	47.	0.14
21.60	1463.	45.9	8.9	2201.	1.32	19.3	206.	35.7	83.7	337.	47.	0.14
21.75	1379.	45.6	8.1	1980.	1.24	14.5	139.	35.6	83.2	315.	42.	0.13
21.90	1357.	45.2	8.0	1977.	1.10	6.3	60.	35.5	82.9	312.	41.	0.13
22.05	1431.	45.2	5.9	1451.	1.03	1.7	12.	35.4	82.3	329.	30.	0.09
22.20	1438.	43.0	5.7	1406.	1.00	0.	0.	35.4	82.2	331.	29.	0.09
22.35	1416.	38.9	6.9	1689.	1.00	0.	0.	35.4	82.3	326.	35.	0.11

SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1428.	42.4	6.7	1643.	1.00	0.	0.	35.3	82.2	328.	34.	0.10
22.65	1609.	41.1	7.7	1899.	1.00	0.	0.	35.3	82.4	370.	40.	0.11
22.80	1839.	35.5	7.1	1743.	1.00	0.	0.	33.5	78.1	423.	34.	0.08
22.95	1766.	37.9	6.8	1669.	1.00	0.	0.	35.8	83.3	406.	35.	0.09
23.10	1507.	42.2	6.8	1676.	1.01	0.7	6.	36.1	84.0	347.	36.	0.10
23.25	1499.	45.7	7.6	1864.	1.10	6.1	55.	35.8	83.6	345.	39.	0.11
23.40	1462.	46.4	7.1	1743.	1.12	7.4	62.	35.6	82.9	336.	37.	0.11
23.55	1476.	45.7	7.1	1744.	1.15	9.3	79.	35.3	82.3	340.	36.	0.11
23.70	1454.	45.3	7.8	1926.	1.23	13.7	128.	35.1	81.9	334.	40.	0.12
23.85	1421.	45.5	8.4	2067.	1.16	9.6	96.	35.3	82.6	327.	43.	0.13
24.00	1414.	45.1	8.1	1998.	1.12	7.0	68.	36.2	84.5	325.	43.	0.13
24.15	1417.	44.6	7.9	1943.	1.12	7.0	66.	36.1	84.2	326.	41.	0.13
24.30	1478.	43.7	8.5	2089.	1.14	8.4	85.	36.0	84.1	340.	45.	0.13
24.45	1502.	42.2	8.3	2033.	1.13	8.0	79.	35.9	83.8	346.	43.	0.12
24.60	1654.	39.9	8.6	2108.	1.12	7.0	71.	35.8	83.7	380.	45.	0.12
24.75	1900.	38.0	8.7	2142.	1.13	8.1	84.	35.8	83.9	437.	45.	0.10
24.90	1684.	39.0	8.0	1964.	1.13	7.8	74.	36.0	84.0	387.	42.	0.11
25.05	1497.	41.8	8.0	1978.	1.06	3.8	36.	36.2	84.4	344.	42.	0.12
25.20	1471.	45.4	8.5	2098.	1.06	3.9	40.	36.3	84.9	338.	45.	0.13
25.35	1445.	46.1	8.3	2045.	1.18	11.0	110.	36.5	85.2	332.	44.	0.13
25.50	1437.	45.3	8.7	2133.	1.11	6.6	69.	36.5	85.4	331.	46.	0.14
25.65	1429.	45.8	8.3	2033.	1.07	4.5	44.	36.5	85.4	329.	44.	0.13
25.80	1419.	43.8	8.6	2115.	1.17	10.6	108.	36.6	85.6	326.	46.	0.14
25.95	1416.	42.1	8.9	2184.	1.13	7.8	83.	36.7	85.9	326.	48.	0.15
26.10	1416.	43.0	9.0	2216.	1.09	5.2	56.	36.8	86.2	326.	48.	0.15
26.25	1535.	41.1	8.5	2092.	1.08	5.1	51.	36.9	86.3	353.	46.	0.13
26.40	1595.	39.4	8.9	2183.	1.12	7.3	77.	36.9	86.3	367.	48.	0.13
26.55	1794.	37.8	8.4	2075.	1.11	6.8	68.	36.6	85.4	413.	45.	0.11
26.70	1803.	37.4	8.4	2064.	1.07	4.3	43.	36.2	84.7	415.	44.	0.11
26.85	1628.	40.5	8.5	2092.	1.09	5.2	52.	36.2	84.6	374.	45.	0.12
27.00	1484.	45.4	8.5	2099.	1.16	9.7	98.	36.2	84.7	341.	45.	0.13
27.15	1475.	44.3	8.2	2016.	1.15	9.1	89.	36.3	84.7	339.	43.	0.13
27.30	1434.	45.3	8.3	2035.	1.08	4.6	46.	36.3	84.8	330.	44.	0.13
27.45	1433.	45.3	8.2	2010.	1.16	9.5	93.	36.3	84.7	330.	43.	0.13
27.60	1448.	44.5	8.2	2005.	1.16	9.9	96.	36.3	84.7	333.	43.	0.13
27.75	1417.	43.7	8.4	2071.	1.11	6.6	67.	36.2	84.7	326.	44.	0.14
27.90	1381.	43.6	8.5	2093.	1.09	5.5	56.	36.2	84.7	318.	45.	0.14
28.05	1523.	42.7	8.9	2185.	1.11	6.7	71.	36.2	84.8	350.	47.	0.13
28.20	1577.	41.3	8.9	2185.	1.12	7.3	78.	36.2	84.8	363.	47.	0.13

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1669.	40.1	8.6	2121.	1.09	5.6	58.	36.2	84.7	384.	45.	0.12
28.50	1780.	38.7	8.5	2095.	1.09	5.4	55.	36.2	84.6	409.	45.	0.11
28.65	1728.	37.5	8.8	2158.	1.06	3.4	36.	36.1	84.6	397.	46.	0.12
28.80	1510.	39.3	8.5	2091.	1.06	3.5	35.	36.1	84.4	347.	45.	0.13
28.95	1484.	41.2	8.9	2188.	1.06	3.5	38.	36.1	84.4	341.	47.	0.14
29.10	1457.	45.5	8.7	2142.	1.06	3.8	39.	36.0	84.3	335.	46.	0.14
29.25	1438.	44.3	8.6	2119.	1.15	9.2	95.	36.1	84.4	331.	45.	0.14
29.40	1429.	44.1	9.0	2211.	1.13	7.9	85.	36.1	84.5	329.	47.	0.14
29.55	1413.	43.5	8.8	2169.	1.08	5.1	54.	36.1	84.6	325.	46.	0.14
29.70	1406.	42.6	8.6	2117.	1.10	5.9	60.	36.2	84.6	323.	45.	0.14
29.85	1419.	41.4	8.8	2168.	1.11	6.8	72.	36.2	84.7	326.	46.	0.14
30.00	1454.	40.5	8.8	2175.	1.06	3.9	41.	36.2	84.8	335.	47.	0.14
30.15	1576.	39.5	8.6	2126.	1.07	4.0	41.	36.3	84.8	363.	46.	0.13
30.30	1705.	38.4	9.0	2207.	1.09	5.7	61.	36.3	85.0	392.	47.	0.12
30.45	1814.	37.4	9.1	2250.	1.10	6.2	68.	36.3	85.1	417.	48.	0.12
30.60	1639.	37.2	9.1	2249.	1.06	3.5	38.	36.4	85.2	377.	48.	0.13
30.75	1465.	40.3	9.0	2225.	1.05	3.0	33.	36.4	85.2	337.	48.	0.14
30.90	1441.	43.4	9.3	2281.	1.05	3.0	33.	36.4	85.3	331.	49.	0.15
31.05	1439.	43.7	9.4	2322.	1.05	2.9	33.	36.4	85.5	331.	50.	0.15
31.20	1422.	43.6	9.3	2284.	1.06	3.5	38.	36.5	85.5	327.	49.	0.15
31.35	1416.	43.0	9.3	2290.	1.07	4.3	48.	36.5	85.6	326.	50.	0.15
31.50	1390.	42.3	9.4	2319.	1.09	5.2	59.	36.5	85.5	320.	50.	0.16
31.65	1378.	41.9	9.6	2357.	1.09	5.7	65.	36.3	85.2	317.	51.	0.16
31.80	1440.	41.6	9.4	2306.	1.10	6.1	69.	36.2	84.8	331.	50.	0.15
31.95	1522.	39.4	9.6	2355.	1.15	9.0	103.	36.0	84.5	350.	50.	0.14
32.10	1597.	38.1	9.8	2399.	1.14	8.3	96.	35.9	84.2	367.	51.	0.14
32.25	1703.	36.7	9.4	2322.	1.11	6.8	76.	35.7	83.8	392.	49.	0.13
32.40	1801.	35.9	9.8	2414.	1.11	6.7	79.	35.6	83.6	414.	51.	0.12
32.55	1510.	39.2	10.1	2483.	1.14	8.6	104.	35.5	83.6	347.	53.	0.15
32.70	1451.	42.0	9.9	2446.	1.14	8.3	98.	35.6	83.6	334.	52.	0.16
32.85	1445.	42.6	9.7	2392.	1.05	3.0	35.	35.6	83.6	332.	51.	0.15
33.00	1441.	42.6	9.6	2364.	1.08	4.9	57.	35.6	83.7	331.	50.	0.15
33.15	1427.	42.2	9.8	2401.	1.11	6.9	80.	35.7	83.8	328.	51.	0.16
33.30	1427.	41.6	10.0	2462.	1.08	4.6	55.	35.7	83.9	328.	52.	0.16
33.45	1434.	40.7	9.9	2447.	1.07	4.3	51.	35.7	83.9	330.	52.	0.16
33.60	1399.	39.6	9.8	2414.	1.11	6.4	75.	35.3	82.8	322.	51.	0.16
33.75	1420.	38.6	10.1	2481.	1.06	3.8	46.	34.8	81.9	327.	51.	0.16
33.90	1462.	36.8	10.2	2513.	1.06	3.4	42.	34.4	80.9	336.	51.	0.15
34.05	1551.	34.7	10.1	2473.	1.06	3.4	40.	33.9	79.9	357.	50.	0.14

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	1727.	33.8	10.1	2491.	1.05	3.1	37.	34.0	80.0	397.	51.	0.13
34.35	1695.	35.2	10.2	2501.	1.04	2.2	26.	34.6	81.3	390.	51.	0.13
34.50	1562.	36.6	10.0	2456.	1.03	2.0	24.	35.1	82.6	359.	51.	0.14
34.65	1461.	41.4	9.9	2439.	1.03	2.1	25.	35.7	83.9	336.	52.	0.15
34.8[illegible]	1451.	41.0	9.9	2439.	1.04	2.4	28.	35.7	83.9	334.	52.	0.16
34.95	1445.	40.8	10.1	2484.	1.05	3.1	37.	35.1	82.6	332.	52.	0.16
35.10	1441.	40.4	10.1	2480.	1.06	3.6	44.	34.6	81.3	331.	51.	0.15
35.25	1423.	39.7	10.1	2495.	1.11	6.4	78.	34.4	80.9	327.	51.	0.16
35.4[illegible]	1382.	39.8	10.4	2568.	1.11	6.4	80.	34.2	80.7	318.	52.	0.17
35.55	138[illegible]	38.1	10.2	2499.	1.09	5.4	65.	34.1	80.3	317.	51.	0.16
35.70	1432.	37.2	10.2	2516.	1.11	6.7	82.	33.9	79.9	329.	51.	0.15
35.85	1495.	35.3	10.1	2474.	1.14	8.4	101.	33.8	79.5	344.	50.	0.15
36.00	1603.	33.9	9.8	2400.	1.11	6.4	75.	33.9	79.8	369.	49.	0.13
36.15	1727.	33.3	9.9	2442.	1.09	5.3	63.	34.1	80.3	397.	50.	0.12
36.3[illegible]	1648.	34.4	10.1	2491.	1.10	6.2	75.	34.3	80.8	379.	51.	0.13
36.45	1489.	35.9	10.3	2524.	1.12	7.0	86.	34.5	81.2	342.	52.	0.15
36.60	145[illegible]	40.6	10.3	2526.	1.10	6.1	75.	34.3	80.8	334.	52.	0.16
36.75	1441.	41.2	10.3	2536.	1.08	5.1	63.	34.2	80.6	331.	52.	0.16
36.9[illegible]	1419.	39.8	10.2	2503.	1.09	5.2	63.	34.1	80.3	326.	51.	0.16
37.05	1411.	39.1	10.0	2449.	1.09	5.3	63.	34.0	80.1	324.	50.	0.15
37.20	1412.	38.8	10.1	2472.	1.09	5.5	66.	34.0	79.9	325.	50.	0.15
37.35	1398.	38.3	9.9	2445.	1.11	6.7	79.	33.9	79.7	321.	49.	0.15
37.50	1444.	37.5	10.2	2497.	1.14	8.3	101.	33.8	79.5	332.	50.	0.15
37.65	1481.	36.5	10.4	2548.	1.10	6.3	78.	33.7	79.4	341.	51.	0.15
37.8[illegible]	1530.	35.1	10.3	2542.	1.09	5.7	70.	33.6	79.2	352.	51.	0.14
37.95	1626.	33.7	10.3	2541.	1.12	7.2	89.	33.6	79.2	374.	51.	0.14
38.10	1735.	33.2	10.4	2568.	1.10	6.3	78.	33.6	79.3	399.	52.	0.13
38.25	1584.	33.3	10.3	2528.	1.08	4.8	59.	33.7	79.3	364.	51.	0.14
38.4[illegible]	1468.	37.7	10.2	2519.	1.07	4.3	52.	33.7	79.4	338.	51.	0.15
38.55	1490.	37.8	10.3	2529.	1.08	4.6	57.	33.6	79.1	343.	51.	0.15
38.7[illegible]	1456.	37.0	9.9	2431.	1.08	4.8	56.	33.4	78.6	335.	48.	0.14
38.85	1439.	34.7	9.5	2335.	1.08	4.8	55.	33.2	78.1	331.	46.	0.14
39.00	1429.	29.7	8.9	2193.	1.08	4.8	51.	33.1	77.5	329.	43.	0.13
39.15	1341.	35.6	9.1	2233.	1.12	7.3	80.	32.9	77.2	309.	44.	0.14
39.3	1358.	37.0	9.7	2387.	1.15	8.9	104.	32.7	77.0	312.	47.	0.15
39.45	1394.	36.3	10.6	2597.	1.06	3.8	47.	32.7	77.1	321.	51.	0.16
39.60	1455.	35.0	10.6	2596.	1.07	4.3	54.	32.6	77.0	335.	51.	0.15
39.75	1539.	33.7	10.6	2605.	1.09	5.6	71.	32.6	76.9	354.	51.	0.14
39.90	1633.	32.9	10.5	2588.	1.10	6.3	79.	32.6	76.8	376.	51.	0.13

RUN NUMBER- 34
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1683.	33.1	10.4	2547.	1.09	5.5	68.	32.5	76.7	387.	49.	0.13
40.20	1514.	34.7	10.4	2568.	1.12	7.1	89.	32.5	76.6	348.	50.	0.14
40.35	1439.	39.5	10.3	2533.	1.12	7.4	91.	32.3	76.2	331.	49.	0.15
40.50	1434.	40.5	10.2	2500.	1.09	5.4	65.	32.2	75.9	330.	48.	0.15
40.65	1432.	39.6	10.4	2556.	1.07	4.1	51.	32.1	75.7	329.	49.	0.15
40.80	1428.	39.0	10.6	2614.	1.12	7.5	95.	32.0	75.5	328.	50.	0.15
40.95	1400.	38.6	10.6	2610.	1.09	5.6	71.	31.9	75.3	322.	50.	0.15
41.10	1377.	38.7	10.4	2556.	1.07	4.2	52.	31.7	74.9	317.	48.	0.15
41.25	1378.	37.8	10.5	2570.	1.07	4.1	51.	31.6	74.7	317.	49.	0.15
41.40	1399.	35.6	10.7	2640.	1.08	4.7	60.	31.5	74.6	322.	50.	0.15
41.55	1499.	33.6	10.4	2548.	1.08	4.7	58.	31.5	74.3	345.	48.	0.14
41.70	1568.	33.0	10.5	2574.	1.06	3.5	44.	31.4	74.2	361.	48.	0.13
41.85	1639.	32.7	10.7	2627.	1.08	5.0	63.	31.4	74.2	377.	49.	0.13
42.00	1699.	32.4	10.7	2624.	1.09	5.5	70.	31.3	74.1	391.	49.	0.13
42.15	1446.	33.9	10.3	2537.	1.04	2.5	31.	31.3	73.8	332.	47.	0.14
42.30	1433.	37.0	10.5	2592.	1.04	2.4	30.	31.2	73.8	330.	48.	0.15
42.45	1441.	39.3	10.4	2565.	1.06	3.6	45.	31.2	73.6	331.	48.	0.14
42.60	1414.	38.6	10.4	2552.	1.07	4.1	50.	31.2	73.7	325.	48.	0.15
42.75	1423.	38.0	10.7	2631.	1.04	2.6	33.	31.2	73.8	327.	49.	0.15
42.90	1411.	37.6	10.7	2631.	1.05	2.8	36.	31.3	73.9	325.	49.	0.15
43.05	1391.	37.1	10.3	2540.	1.05	3.0	38.	31.3	73.9	320.	47.	0.15
43.20	1400.	36.2	10.6	2598.	1.03	2.1	26.	31.3	74.0	322.	49.	0.15
43.35	1460.	34.7	10.8	2659.	1.04	2.3	30.	31.4	74.2	336.	50.	0.15
43.50	1524.	33.4	11.0	2717.	1.05	2.8	37.	31.3	74.2	350.	51.	0.15
43.65	1574.	32.6	10.7	2621.	1.03	2.0	26.	31.3	74.0	362.	49.	0.14
43.80	1691.	32.5	10.3	2525.	1.04	2.5	31.	31.3	73.8	389.	47.	0.12
43.95	1642.	32.7	10.2	2499.	1.05	3.0	37.	31.2	73.6	378.	47.	0.12
44.10	1514.	36.6	10.1	2485.	1.04	2.1	26.	31.7	74.8	348.	47.	0.13
44.25	1398.	35.8	10.2	2511.	1.03	1.8	22.	31.8	74.9	321.	48.	0.15
44.40	1426.	37.4	9.7	2397.	1.02	1.5	17.	31.2	73.4	328.	45.	0.14
44.55	1425.	38.2	9.5	2345.	1.02	0.9	11.	31.0	72.9	328.	43.	0.13
44.70	1396.	36.8	10.9	2669.	1.01	0.4	5.	31.0	73.3	321.	49.	0.15
44.85	1370.	34.9	10.1	2494.	1.07	4.2	50.	31.0	73.0	315.	46.	0.15
45.00	1381.	36.3	10.1	2480.	1.21	12.6	151.	30.9	73.0	318.	46.	0.14
45.15	1415.	36.6	10.2	2510.	1.11	6.6	81.	30.9	73.0	325.	46.	0.14
45.30	1444.	33.9	10.3	2533.	1.06	3.6	44.	30.9	73.0	332.	47.	0.14

LOCATION- MASONBORO INLET
DATE OF TEST- 9 25 78
RUN NUMBER- 34
SEGMENT NUMBER- 2
WATER DEPTH- 12 TO 15 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1738.	33.2	10.6	2598.	1.03	2.0	25.	3.2	9.0	400.	6.	0.01
0.15	1730.	32.7	10.5	2571.	1.05	3.2	40.	3.3	9.3	398.	6.	0.02
0.30	1604.	33.8	10.5	2589.	1.06	3.5	44.	3.4	9.6	369.	6.	0.02
0.45	1522.	36.9	10.8	2664.	1.05	2.8	37.	3.2	9.3	350.	6.	0.02
0.60	1511.	40.5	10.7	2642.	1.03	1.8	23.	3.1	9.0	348.	6.	0.02
0.75	1504.	40.0	10.4	2552.	1.03	1.6	20.	3.0	8.6	346.	6.	0.02
0.90	1490.	39.6	10.2	2516.	1.04	2.6	31.	3.2	9.0	343.	6.	0.02
1.05	1474.	39.1	10.7	2619.	1.08	4.7	60.	3.8	10.6	339.	7.	0.02
1.20	1454.	38.7	10.7	2620.	1.05	3.2	40.	3.5	9.9	334.	7.	0.02
1.35	1466.	38.0	10.4	2559.	1.10	5.9	73.	3.3	9.2	337.	6.	0.02
1.50	1528.	36.9	10.3	2525.	1.13	7.9	97.	3.5	9.8	352.	6.	0.02
1.65	1600.	35.9	10.2	2513.	1.07	4.2	52.	3.6	9.9	368.	6.	0.02
1.80	1677.	34.6	10.4	2563.	1.08	5.1	63.	3.8	10.5	386.	7.	0.02
1.95	1763.	33.1	10.4	2563.	1.11	7.0	86.	3.9	10.7	405.	7.	0.02
2.10	1601.	33.2	10.9	2673.	1.10	6.2	80.	4.1	11.3	368.	8.	0.02
2.25	1507.	36.1	10.7	2635.	1.07	4.3	55.	4.2	11.5	347.	8.	0.02
2.40	1512.	39.5	10.6	2617.	1.05	3.3	41.	3.8	10.5	348.	7.	0.02
2.55	1499.	39.5	10.7	2633.	1.09	5.4	69.	3.4	9.6	345.	6.	0.02
2.70	1480.	39.5	10.5	2594.	1.12	7.4	93.	3.7	10.3	340.	7.	0.02
2.85	1470.	39.9	10.6	2610.	1.06	3.6	45.	3.8	10.5	338.	7.	0.02
3.00	1460.	39.5	10.4	2550.	1.08	4.7	59.	4.3	11.5	336.	8.	0.02
3.15	1450.	38.1	10.4	2553.	1.13	7.6	94.	4.0	10.8	334.	7.	0.02
3.30	1495.	38.1	10.5	2589.	1.10	6.2	78.	3.8	10.4	344.	7.	0.02
3.45	1560.	37.0	10.5	2577.	1.10	5.9	73.	3.8	10.5	359.	7.	0.02
3.60	1613.	35.4	10.1	2477.	1.10	5.9	71.	3.8	10.4	371.	7.	0.02
3.75	1665.	33.9	9.9	2431.	1.07	4.3	51.	4.0	10.8	383.	7.	0.02
3.90	1716.	33.2	10.3	2532.	1.08	4.6	57.	4.2	11.3	395.	7.	0.02
4.05	1516.	34.9	10.0	2454.	1.09	5.7	68.	4.2	11.2	349.	7.	0.02
4.20	1510.	37.7	10.1	2483.	1.12	7.1	86.	4.1	11.1	347.	7.	0.02
4.35	1488.	40.3	10.5	2591.	1.12	7.1	89.	4.0	10.9	342.	7.	0.02
4.50	1477.	40.1	10.2	2508.	1.06	3.7	45.	3.9	10.7	340.	7.	0.02
4.65	1475.	40.1	10.1	2483.	1.12	7.3	88.	3.9	10.7	339.	7.	0.02
4.80	1463.	39.5	10.0	2463.	1.16	9.5	113.	4.2	11.2	336.	7.	0.02

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1442.	39.4	9.8	2407.	1.10	6.3	73.	3.9	10.6	332.	7.	0.02
5.10	1444.	39.0	10.5	2588.	1.09	5.4	68.	3.7	10.2	332.	7.	0.02
5.25	1548.	37.7	10.0	2471.	1.16	9.7	116.	3.9	10.5	356.	7.	0.02
5.40	1599.	35.6	9.9	2440.	1.14	8.2	97.	4.2	11.1	368.	7.	0.02
5.55	1575.	33.8	10.4	2550.	1.07	4.3	54.	4.4	11.7	362.	8.	0.02
5.70	1551.	33.2	9.9	2424.	1.11	6.9	81.	4.4	11.6	357.	7.	0.02
5.85	1528.	33.7	9.9	2426.	1.17	10.0	118.	4.7	12.3	351.	8.	0.02
6.00	1515.	36.9	10.2	2500.	1.14	8.5	103.	4.4	11.9	348.	8.	0.02
6.15	1518.	39.3	10.2	2507.	1.07	4.5	55.	4.7	12.5	349.	8.	0.02
6.30	1521.	41.1	10.1	2491.	1.09	5.4	65.	4.6	12.2	350.	8.	0.02
6.45	1503.	41.1	10.0	2454.	1.16	9.4	112.	4.5	11.9	346.	8.	0.02
6.60	1447.	40.0	10.0	2460.	1.11	6.5	77.	4.5	11.9	333.	8.	0.02
6.75	1447.	39.8	10.1	2484.	1.08	4.8	58.	4.3	11.6	333.	7.	0.02
6.90	1449.	39.3	9.9	2436.	1.18	11.0	130.	4.5	11.9	333.	8.	0.02
7.05	1475.	38.5	10.2	2500.	1.21	12.7	154.	4.5	12.1	339.	8.	0.02
7.20	1527.	38.0	10.3	2532.	1.10	6.3	77.	4.6	12.2	351.	8.	0.02
7.35	1648.	35.9	10.2	2499.	1.15	9.1	111.	4.4	11.8	379.	8.	0.02
7.50	1729.	34.0	10.2	2499.	1.21	13.0	158.	4.6	12.2	398.	8.	0.02
7.65	1695.	34.0	10.7	2639.	1.20	12.2	156.	5.1	13.6	390.	9.	0.02
7.80	1537.	34.3	10.1	2495.	1.14	8.5	103.	5.0	13.1	353.	8.	0.02
7.95	1505.	36.5	10.4	2565.	1.13	7.7	96.	5.2	13.7	346.	9.	0.03
8.10	1514.	41.1	10.6	2610.	1.19	11.7	148.	5.0	13.3	348.	9.	0.03
8.25	1502.	41.1	10.8	2657.	1.22	13.3	171.	5.6	14.7	345.	10.	0.03
8.40	1503.	41.2	10.5	2578.	1.11	6.9	86.	5.2	13.6	346.	9.	0.03
8.55	1517.	29.6	10.2	2512.	1.15	9.3	113.	5.2	13.6	349.	9.	0.03
8.70	1407.	35.4	10.1	2495.	1.25	15.4	187.	5.2	13.6	324.	9.	0.03
8.85	1442.	38.4	10.2	2500.	1.18	10.7	130.	5.1	13.3	332.	9.	0.03
9.00	1527.	38.8	10.3	2534.	1.09	5.2	64.	5.0	13.1	351.	8.	0.02
9.15	1588.	37.4	10.0	2454.	1.12	7.2	86.	5.0	13.1	365.	8.	0.02
9.30	1739.	34.2	10.4	2558.	1.28	17.1	212.	5.4	14.1	400.	9.	0.02
9.45	1800.	33.1	10.6	2608.	1.13	7.8	99.	5.2	13.7	414.	9.	0.02
9.60	1634.	33.3	10.4	2548.	1.13	7.7	95.	5.5	14.3	376.	9.	0.02
9.75	1550.	34.3	10.1	2495.	1.25	14.9	180.	5.5	14.2	357.	9.	0.03
9.90	1511.	39.5	10.2	2496.	1.24	14.4	175.	5.3	13.9	348.	9.	0.03
10.05	1503.	41.5	10.2	2498.	1.13	8.2	99.	5.2	13.7	346.	9.	0.03
10.20	1495.	41.5	10.0	2451.	1.14	8.7	104.	5.4	14.0	344.	9.	0.03
10.35	1493.	41.0	10.0	2458.	1.23	14.0	167.	5.4	14.1	343.	9.	0.03
10.50	1462.	40.2	10.3	2522.	1.24	14.4	176.	5.3	13.9	336.	9.	0.03
10.65	1415.	38.7	9.9	2428.	1.12	7.3	86.	5.6	14.3	325.	9.	0.03

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1473.	37.8	9.4	2313.	1.21	12.8	143.	5.4	13.8	339.	8.	0.02
10.95	1525.	37.8	9.9	2441.	1.31	18.9	224.	5.5	14.3	351.	9.	0.03
11.10	1593.	36.2	10.2	2502.	1.14	8.8	106.	5.7	14.7	366.	9.	0.03
11.25	1685.	32.1	9.9	2441.	1.16	10.0	118.	5.9	15.1	388.	10.	0.02
11.40	1693.	33.7	10.0	2458.	1.18	10.6	127.	6.0	15.4	389.	10.	0.02
11.55	1561.	34.9	10.1	2479.	1.20	11.9	143.	6.0	15.5	359.	10.	0.03
11.70	1496.	38.7	10.2	2498.	1.16	9.7	118.	6.0	15.5	344.	10.	0.03
11.85	1495.	40.9	10.2	2512.	1.08	4.8	58.	5.5	14.3	344.	9.	0.03
12.00	1497.	40.9	9.9	2432.	1.21	13.0	154.	5.3	13.7	344.	9.	0.03
12.15	1468.	40.7	10.1	2475.	1.27	16.7	200.	5.6	14.5	338.	9.	0.03
12.30	1513.	40.1	9.9	2444.	1.07	4.5	54.	6.1	15.6	348.	10.	0.03
12.45	1416.	31.7	8.8	2161.	1.15	9.2	97.	6.1	15.3	326.	8.	0.03
12.60	1429.	37.5	9.2	2255.	1.29	17.4	190.	6.1	15.3	329.	9.	0.03
12.75	1497.	38.9	10.2	2514.	1.18	10.7	131.	5.9	15.3	344.	10.	0.03
12.90	1589.	37.7	10.3	2536.	1.14	8.7	107.	6.0	15.5	365.	10.	0.03
13.05	1697.	36.0	9.9	2430.	1.23	14.2	167.	6.2	15.8	390.	10.	0.03
13.20	1816.	34.3	10.2	2510.	1.26	15.8	193.	6.2	15.9	418.	10.	0.02
13.35	1674.	32.5	9.9	2429.	1.18	10.7	126.	6.2	15.9	385.	10.	0.03
13.50	1421.	31.7	9.1	2237.	1.11	6.7	73.	6.4	16.1	327.	9.	0.03
13.65	1434.	34.3	8.5	2083.	1.14	8.5	86.	6.4	16.0	330.	8.	0.03
13.80	1468.	38.9	8.7	2147.	1.34	20.5	213.	6.0	15.0	338.	8.	0.02
13.95	1458.	41.9	9.6	2356.	1.09	5.5	63.	6.0	15.3	335.	9.	0.03
14.10	1478.	42.0	9.5	2327.	1.11	6.9	77.	6.0	15.3	340.	9.	0.03
14.25	1461.	41.9	9.9	2425.	1.41	25.0	294.	6.0	15.4	336.	10.	0.03
14.40	1431.	40.8	10.5	2578.	1.36	22.0	276.	6.1	15.7	329.	11.	0.03
14.55	1401.	40.4	9.7	2394.	1.18	11.1	129.	6.3	16.0	322.	10.	0.03
14.70	1496.	39.2	9.4	2321.	1.32	19.4	218.	6.4	16.1	344.	10.	0.03
14.85	1619.	37.6	10.1	2488.	1.44	26.7	323.	6.5	16.5	372.	11.	0.03
15.00	1709.	36.1	9.9	2425.	1.23	14.2	168.	6.7	17.0	393.	11.	0.03
15.15	1827.	35.0	9.8	2418.	1.19	11.2	132.	6.7	17.0	420.	11.	0.03
15.30	1641.	35.4	9.5	2328.	1.20	12.2	137.	6.5	16.4	377.	10.	0.03
15.45	1517.	40.1	9.6	2364.	1.21	12.7	146.	6.5	16.4	349.	10.	0.03
15.60	1505.	42.6	9.5	2327.	1.12	7.5	84.	6.7	16.8	346.	10.	0.03
15.75	1488.	42.5	9.2	2264.	1.15	9.0	99.	6.7	16.8	342.	10.	0.03
15.90	1478.	41.9	9.1	2241.	1.25	15.1	165.	6.5	16.4	340.	9.	0.03
16.05	1491.	41.1	10.0	2463.	1.26	15.9	190.	6.7	16.9	343.	11.	0.03
16.20	1430.	40.0	9.5	2339.	1.14	8.2	94.	6.9	17.2	329.	10.	0.03
16.35	1438.	39.6	9.3	2277.	1.23	13.9	153.	6.6	16.6	331.	10.	0.03
16.50	1513.	39.1	10.2	2508.	1.31	19.0	231.	6.9	17.5	348.	11.	0.03

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1579.	38.4	9.9	2446.	1.17	10.1	120.	6.9	17.5	363.	11.	0.03
16.80	1668.	37.4	9.8	2410.	1.21	12.5	146.	7.0	17.5	394.	11.	0.03
16.95	1783.	34.9	9.7	2382.	1.24	14.5	168.	7.0	17.5	410.	11.	0.03
17.10	1806.	34.7	9.7	2394.	1.27	16.1	187.	7.1	17.9	415.	11.	0.03
17.25	1568.	36.5	10.0	2451.	1.22	13.3	158.	7.3	18.3	361.	12.	0.03
17.40	1521.	41.9	9.4	2313.	1.09	5.6	63.	7.0	17.6	353.	10.	0.03
17.55	1500.	42.9	9.0	2204.	1.28	17.1	183.	7.1	17.5	345.	10.	0.03
17.70	1496.	43.1	9.4	2319.	1.30	18.0	203.	7.0	17.6	344.	11.	0.03
17.85	1506.	43.2	9.6	2364.	1.13	7.7	88.	6.8	17.2	346.	10.	0.03
18.00	1502.	42.4	9.5	2329.	1.21	12.8	145.	7.1	17.9	345.	11.	0.03
18.15	1469.	41.0	9.7	2389.	1.37	22.4	260.	6.9	17.3	338.	11.	0.03
18.30	1448.	41.1	10.0	2454.	1.20	12.3	146.	7.1	17.8	333.	11.	0.03
18.45	1520.	41.0	9.6	2367.	1.19	11.5	132.	7.0	17.6	350.	11.	0.03
18.60	1636.	39.5	9.5	2334.	1.29	17.8	202.	6.9	17.4	376.	11.	0.03
18.75	1716.	37.2	10.2	2496.	1.33	19.7	239.	7.3	18.4	395.	12.	0.03
18.90	1871.	35.1	9.7	2380.	1.18	10.8	125.	7.5	18.8	430.	11.	0.03
19.05	1717.	35.4	9.5	2344.	1.14	8.7	100.	7.5	18.7	395.	11.	0.03
19.20	1592.	37.8	9.6	2356.	1.19	11.6	133.	7.3	18.3	366.	11.	0.03
19.35	1522.	42.5	9.8	2416.	1.25	15.2	178.	6.9	17.4	350.	11.	0.03
19.50	1507.	43.7	9.2	2254.	1.11	6.4	70.	6.8	17.1	347.	10.	0.03
19.65	1498.	43.4	9.3	2284.	1.22	13.3	148.	7.2	18.1	345.	11.	0.03
19.80	1479.	42.5	9.8	2415.	1.33	19.9	233.	7.3	18.4	340.	12.	0.03
19.95	1468.	41.7	9.9	2431.	1.25	15.2	179.	7.2	18.0	338.	11.	0.03
20.10	1446.	41.4	9.8	2420.	1.21	12.8	150.	7.1	17.8	333.	11.	0.03
20.25	1511.	40.1	9.7	2389.	1.33	19.9	231.	7.1	17.8	347.	11.	0.03
20.40	1561.	38.6	10.0	2468.	1.34	20.5	245.	7.1	17.9	359.	12.	0.03
20.55	1636.	37.0	9.8	2406.	1.14	8.6	100.	7.4	18.6	376.	11.	0.03
20.70	1752.	35.3	9.6	2349.	1.19	11.6	132.	7.6	19.0	403.	11.	0.03
20.85	1876.	35.4	9.6	2354.	1.27	16.2	186.	7.6	19.0	431.	12.	0.03
21.00	1564.	37.0	9.7	2374.	1.22	13.5	155.	7.7	19.2	360.	12.	0.03
21.15	1529.	40.1	9.7	2379.	1.13	8.0	92.	7.6	19.1	352.	12.	0.03
21.30	1471.	36.7	9.3	2293.	1.11	6.4	71.	7.7	19.1	338.	11.	0.03
21.45	1450.	39.4	8.4	2070.	1.34	20.4	205.	7.7	18.9	333.	10.	0.03
21.60	1469.	41.4	9.4	2311.	1.25	15.4	172.	7.4	18.3	338.	11.	0.03
21.75	1484.	41.5	9.8	2404.	1.11	6.8	79.	7.4	18.6	341.	11.	0.03
21.90	1455.	41.3	9.7	2386.	1.21	12.9	149.	7.0	17.7	335.	11.	0.03
22.05	1443.	39.8	9.7	2386.	1.37	22.3	258.	7.3	18.2	332.	11.	0.03
22.20	1475.	39.0	10.1	2488.	1.17	10.2	123.	7.6	19.1	339.	12.	0.04
22.35	1556.	39.3	10.2	2502.	1.17	10.0	122.	7.9	19.8	358.	13.	0.04

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1639.	38.2	10.2	2512.	1.25	15.4	188.	7.9	20.0	377.	13.	0.03
22.65	1813.	35.5	10.3	2538.	1.31	18.9	233.	8.0	20.0	417.	13.	0.03
22.80	1707.	35.0	10.3	2541.	1.17	10.3	127.	8.0	20.1	393.	13.	0.03
22.95	1525.	40.3	9.7	2389.	1.11	6.9	80.	8.1	20.1	351.	12.	0.03
23.10	1515.	42.9	9.5	2327.	1.15	9.1	103.	8.3	20.5	349.	12.	0.03
23.25	1507.	42.4	10.2	2504.	1.25	15.5	188.	7.8	19.7	347.	13.	0.0
23.40	1522.	39.8	9.9	2428.	1.12	7.5	89.	7.7	19.4	350.	12.	0.03
23.55	1428.	31.0	8.6	2118.	1.17	10.3	106.	8.2	20.0	328.	11.	0.03
23.70	1397.	36.5	8.7	2145.	1.29	17.8	186.	8.4	20.6	321.	11.	0.04
23.85	1408.	41.2	9.7	2392.	1.27	16.5	192.	8.2	20.3	324.	13.	0.04
24.00	1403.	41.5	9.7	2376.	1.15	9.4	108.	7.9	19.8	323.	12.	0.04
24.15	1571.	39.2	9.4	2301.	1.25	14.9	166.	7.8	19.5	361.	12.	0.03
24.30	1644.	37.4	10.0	2450.	1.37	22.3	265.	7.9	19.7	378.	13.	0.03
24.45	1743.	36.3	10.0	2450.	1.29	17.5	208.	8.8	21.9	401.	14.	0.03
24.60	1826.	35.5	9.8	2403.	1.17	10.2	119.	9.1	22.4	420.	14.	0.03
24.75	1745.	36.5	9.4	2300.	1.19	11.3	126.	8.6	21.2	401.	12.	0.03
24.90	1526.	40.7	9.9	2439.	1.36	21.8	258.	8.8	21.8	351.	14.	0.04
25.05	1510.	42.3	9.4	2300.	1.23	14.2	156.	8.9	21.8	347.	13.	0.04
25.20	1511.	37.5	8.7	2147.	1.14	8.4	88.	8.7	21.3	347.	12.	0.03
25.35	1445.	35.3	8.1	1999.	1.33	19.7	191.	8.6	20.9	332.	11.	0.03
25.50	1469.	40.8	10.0	2456.	1.28	16.8	201.	8.5	21.2	338.	13.	0.04
25.65	1409.	41.1	10.1	2480.	1.13	7.8	94.	8.4	20.9	324.	13.	0.04
25.80	1444.	41.0	9.4	2317.	1.18	11.0	124.	8.6	21.3	332.	13.	0.04
25.95	1507.	40.3	9.8	2408.	1.47	28.4	332.	8.7	21.6	347.	14.	0.04
26.10	1666.	33.6	10.2	2496.	1.33	20.3	246.	9.0	22.3	383.	14.	0.04
26.25	1599.	30.7	8.9	2193.	1.18	11.1	118.	9.0	22.1	368.	12.	0.03
26.40	1678.	31.5	8.2	2017.	1.15	8.9	88.	9.0	21.9	386.	11.	0.03
26.55	1712.	34.0	7.8	1916.	1.11	6.4	60.	9.1	21.9	394.	11.	0.03
26.70	1532.	39.3	8.6	2115.	1.03	1.8	19.	9.1	22.1	352.	12.	0.03
26.85	1553.	38.8	9.1	2247.	1.02	1.3	14.	9.1	22.2	357.	13.	0.04
27.00	1515.	42.7	9.0	2219.	1.26	15.6	168.	8.8	21.6	348.	12.	0.04
27.15	1503.	43.7	10.0	2453.	1.55	33.2	395.	8.8	21.9	346.	14.	0.04
27.30	1515.	43.9	9.4	2322.	1.29	17.5	198.	8.9	21.8	348.	13.	0.04
27.45	1483.	43.8	9.1	2235.	1.20	12.3	133.	9.2	22.4	341.	13.	0.04
27.60	1447.	42.1	9.5	2336.	1.59	36.0	438.	9.2	22.6	333.	14.	0.04
27.75	1417.	40.2	9.6	2359.	1.25	15.0	172.	9.2	22.7	326.	14.	0.04
27.90	1503.	42.6	9.8	2398.	1.15	8.9	104.	8.8	21.7	346.	13.	0.04
28.05	1603.	38.3	10.0	2465.	1.26	16.0	192.	8.8	21.9	369.	14.	0.04
28.20	1812.	36.8	9.7	2395.	1.29	17.4	202.	9.2	22.6	417.	14.	0.03

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1861.	34.4	9.8	2405.	1.19	11.8	138.	9.5	23.3	428.	14.	0.03
28.50	1655.	34.7	9.1	2236.	1.09	5.7	62.	9.7	23.7	381.	13.	0.04
28.65	1573.	39.9	8.6	2115.	1.08	4.6	47.	9.8	23.8	362.	13.	0.04
28.80	1519.	42.0	9.2	2252.	1.30	18.3	203.	9.2	22.6	349.	13.	0.04
28.95	1462.	41.7	8.7	2143.	1.10	5.9	61.	8.9	21.8	336.	12.	0.04
29.10	1454.	40.3	8.4	2076.	1.08	5.0	51.	9.3	22.7	335.	12.	0.04
29.25	1456.	41.9	9.4	2305.	1.27	16.7	186.	9.2	22.6	335.	13.	0.04
29.40	1444.	40.9	9.9	2433.	1.30	17.9	211.	9.1	22.5	332.	14.	0.04
29.55	1423.	34.9	8.8	2163.	1.11	6.8	71.	9.2	22.5	327.	12.	0.04
29.70	1487.	33.5	7.7	1885.	1.06	3.6	33.	9.4	22.5	342.	11.	0.03
29.85	1576.	38.4	6.8	1669.	1.01	0.9	7.	9.2	21.9	362.	9.	0.03
30.00	1706.	34.9	8.7	2138.	1.01	0.4	4.	9.0	21.9	392.	12.	0.03
30.15	1628.	28.1	10.2	2518.	1.00	0.	0.	9.3	23.2	373.	15.	0.04
30.30	1566.	33.2	7.2	1760.	1.00	0.	0.	9.2	22.1	360.	10.	0.03
30.45	1550.	36.3	6.3	1554.	1.00	0.	0.	9.2	21.9	357.	9.	0.02
30.60	1513.	37.9	6.5	1595.	1.00	0.	0.	9.4	22.3	348.	9.	0.03
30.75	1467.	35.2	6.5	1600.	1.00	0.	0.	9.5	22.5	337.	9.	0.03
30.90	1456.	41.7	7.0	1716.	1.00	0.	0.	9.3	22.2	335.	10.	0.03
31.05	1455.	43.2	5.9	1462.	1.00	0.	0.	9.3	22.0	335.	8.	0.02
31.20	1406.	42.1	6.5	1601.	1.00	0.	0.	9.3	22.2	323.	9.	0.03
31.35	1436.	39.7	8.3	2039.	1.09	5.6	56.	9.3	22.6	330.	12.	0.04
31.50	1451.	39.6	9.9	2438.	1.20	12.0	142.	8.9	22.0	334.	14.	0.04
31.65	1498.	38.9	9.5	2333.	1.09	5.7	65.	9.4	23.0	345.	14.	0.04
31.80	1581.	37.4	8.9	2179.	1.06	3.9	42.	9.4	22.9	364.	13.	0.03
31.95	1734.	35.4	9.4	2313.	1.09	5.7	64.	9.4	23.2	399.	14.	0.03
32.10	1757.	33.7	10.2	2511.	1.18	10.9	133.	9.7	24.0	404.	15.	0.04
32.25	1614.	33.7	9.8	2406.	1.10	5.9	69.	9.5	23.5	371.	14.	0.04
32.40	1505.	36.2	9.7	2393.	1.07	4.3	50.	9.8	24.1	346.	15.	0.04
32.55	1481.	39.7	10.0	2468.	1.11	6.8	81.	9.9	24.4	341.	15.	0.05
32.70	1482.	41.2	10.2	2509.	1.17	10.0	122.	9.5	23.6	341.	15.	0.04
32.85	1464.	40.5	10.3	2531.	1.09	5.5	68.	9.8	24.3	337.	16.	0.05
33.00	1435.	39.9	9.9	2423.	1.09	5.4	64.	9.8	24.2	330.	15.	0.05
33.15	1421.	39.0	10.2	2519.	1.15	8.9	109.	10.1	25.0	327.	16.	0.05
33.30	1414.	39.2	10.3	2544.	1.11	6.8	84.	10.3	25.5	325.	16.	0.05
33.45	1414.	38.8	10.1	2490.	1.09	5.6	68.	10.4	25.7	325.	16.	0.05
33.60	1602.	37.2	10.2	2502.	1.13	7.7	93.	10.0	24.7	368.	16.	0.04
33.75	1671.	35.2	10.5	2587.	1.15	8.9	111.	9.9	24.6	384.	16.	0.04
33.90	1730.	33.8	10.3	2545.	1.11	6.4	79.	10.1	24.9	398.	16.	0.04
34.05	1784.	33.4	10.0	2450.	1.09	5.5	66.	10.5	25.8	410.	16.	0.04

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SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1500.	33.7	10.3	2525.	1.11	6.7	82.	10.0	24.7	345.	16.	0.05
34.35	1488.	38.9	10.2	2519.	1.12	7.0	86.	10.2	25.1	342.	16.	0.05
34.50	1501.	41.9	10.0	2452.	1.08	4.9	59.	10.5	25.7	345.	16.	0.05
34.65	1484.	42.7	10.0	2451.	1.07	4.5	53.	10.1	24.8	341.	15.	0.05
34.8[illegible]	1449.	41.5	9.9	2425.	1.12	7.1	84.	10.3	25.3	333.	16.	0.05
34.95	1443.	41.1	9.9	2430.	1.11	6.6	78.	10.0	24.5	332.	15.	0.05
35.10	1432.	40.8	10.0	2458.	1.10	6.1	73.	9.9	24.4	329.	15.	0.05
35.25	1424.	40.0	9.8	2403.	1.12	7.4	86.	10.1	24.7	328.	15.	0.05
35.40	1474.	38.9	10.1	2480.	1.16	9.9	120.	10.4	25.6	339.	16.	0.05
35.55	1545.	35.8	10.1	2491.	1.15	9.2	112.	10.5	25.8	355.	16.	0.05
35.7[illegible]	1700.	35.0	9.2	2265.	1.14	8.5	94.	10.5	25.5	391.	15.	0.04
35.85	1756.	35.1	9.8	2408.	1.13	7.9	92.	10.6	25.8	404.	16.	0.04
36.0[illegible]	1691.	35.6	10.4	2548.	1.14	8.4	103.	10.8	26.7	389.	17.	0.04
36.15	1505.	35.5	9.6	2360.	1.11	6.5	75.	10.6	25.8	346.	16.	0.04
36.3[illegible]	1499.	42.1	9.6	2373.	1.09	5.3	61.	10.4	25.4	345.	15.	0.04
36.45	1490.	42.1	9.7	2390.	1.17	10.1	117.	10.4	25.5	343.	16.	0.05
36.60	1476.	42.0	10.3	2534.	1.14	8.5	105.	10.3	25.4	339.	16.	0.05
36.75	1469.	41.5	10.1	2495.	1.12	7.0	84.	10.1	24.8	338.	16.	0.05
36.9[illegible]	1455.	40.9	9.9	2431.	1.12	7.0	83.	10.3	25.3	335.	16.	0.05
37.05	1437.	40.4	10.5	2588.	1.20	12.0	151.	10.4	25.7	330.	17.	0.05
37.20	1448.	40.1	10.8	2659.	1.15	8.9	114.	10.7	26.4	333.	18.	0.05
37.35	1490.	40.1	10.0	2454.	1.14	8.2	98.	10.7	26.2	343.	16.	0.05
37.50	1560.	37.5	10.1	2489.	1.22	13.1	158.	10.9	26.8	359.	17.	0.05
37.65	1760.	34.9	10.3	2530.	1.19	11.4	140.	10.7	26.4	405.	17.	0.04
37.80	1753.	33.8	10.2	2516.	1.16	9.4	115.	10.8	26.4	403.	17.	0.04
37.95	1623.	35.4	9.5	2332.	1.13	7.9	89.	11.5	27.9	373.	17.	0.04
38.10	1545.	38.5	9.4	2319.	1.11	6.9	78.	11.4	27.7	355.	16.	0.05
38.25	1507.	40.8	10.3	2537.	1.22	13.2	163.	10.7	26.4	347.	17.	0.05
38.40	1438.	39.1	9.3	2277.	1.14	8.2	91.	10.5	25.6	331.	15.	0.04
38.55	1426.	39.9	8.4	2061.	1.14	8.5	85.	11.1	26.7	328.	14.	0.04
38.70	1442.	41.5	8.8	2173.	1.23	14.1	149.	10.8	26.1	332.	14.	0.04
38.85	1463.	41.5	9.8	2421.	1.20	12.4	145.	10.7	26.3	336.	16.	0.05
39.00	1472.	42.6	9.2	2265.	1.18	10.8	118.	10.9	26.4	339.	15.	0.05
39.15	1487.	40.1	9.9	2438.	1.26	16.0	189.	11.2	27.3	342.	17.	0.05
39.30	1586.	38.6	10.1	2494.	1.26	15.6	189.	11.4	27.9	365.	18.	0.05
39.45	1687.	37.2	10.2	2505.	1.16	9.9	121.	11.4	28.0	388.	18.	0.05
39.60	1750.	35.8	10.1	2492.	1.14	8.4	102.	11.3	27.6	403.	18.	0.04
39.75	1666.	34.7	9.7	2375.	1.18	10.7	123.	11.4	27.7	383.	17.	0.04
39.9[illegible]	1560.	34.6	10.0	2470.	1.18	11.2	134.	11.6	28.3	359.	18.	0.05

C301

RUN NUMBER- 34
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1509.	38.3	10.0	2469.	1.12	7.3	88.	11.4	27.9	347.	18.	0.05
40.20	1492.	42.2	9.7	2375.	1.11	6.9	80.	11.1	27.1	343.	16.	0.05
40.35	1469.	42.4	9.5	2329.	1.18	11.0	125.	11.4	27.8	338.	16.	0.05
40.50	1447.	41.5	9.6	2355.	1.14	8.7	100.	11.7	28.4	333.	17.	0.05
40.65	1433.	39.9	9.6	2357.	1.15	8.9	101.	11.9	28.8	330.	17.	0.05
40.80	1433.	38.5	9.7	2373.	1.17	10.4	119.	11.8	28.6	330.	17.	0.05
40.95	1445.	40.3	9.0	2220.	1.27	16.4	177.	11.5	27.8	332.	16.	0.05
41.10	1497.	38.6	9.5	2342.	1.17	10.2	115.	11.8	28.7	344.	17.	0.05
41.25	1513.	30.6	9.0	2217.	1.15	8.9	96.	12.1	29.1	348.	16.	0.05
41.40	1620.	35.3	8.2	2007.	1.13	8.1	79.	11.6	27.8	373.	14.	0.04
41.55	1806.	36.3	7.9	1945.	1.10	5.9	56.	11.8	28.2	415.	14.	0.03
41.70	1639.	29.7	8.1	2001.	1.00	0.	0.	11.8	28.3	377.	14.	0.04
41.85	1522.	33.1	8.4	2058.	1.00	0.	0.	11.8	28.4	350.	15.	0.04
42.00	1499.	41.2	8.6	2115.	1.00	0.	0.	11.8	28.5	345.	15.	0.04
42.15	1513.	42.4	6.1	1491.	1.00	0.	0.	11.5	27.2	348.	10.	0.03
42.30	1455.	38.3	6.4	1578.	1.00	0.	0.	11.4	26.9	335.	11.	0.03
42.45	1405.	37.2	8.1	1994.	1.00	0.	0.	11.5	27.6	323.	14.	0.04
42.60	1423.	42.7	5.4	1336.	1.00	0.	0.	11.4	26.7	327.	9.	0.03
42.75	1448.	45.0	7.6	1873.	1.00	0.	0.	11.6	27.7	333.	13.	0.04
42.90	1398.	32.1	9.7	2394.	1.00	0.	0.	11.9	28.8	322.	17.	0.05
43.05	1420.	37.2	7.1	1734.	1.00	0.	0.	12.2	29.0	327.	13.	0.04
43.20	1606.	40.1	6.2	1530.	1.00	0.	0.	11.6	27.4	369.	11.	0.03
43.35	1884.	31.6	7.7	1888.	1.00	0.	0.	12.1	28.8	433.	14.	0.03
43.50	1645.	26.7	8.5	2081.	1.00	0.	0.	12.8	30.7	378.	16.	0.04
43.65	1514.	38.5	5.9	1463.	1.00	0.	0.	11.7	27.5	348.	10.	0.03
43.80	1544.	41.5	5.9	1480.	1.00	0.	0.	11.6	27.3	355.	10.	0.03
43.95	1479.	40.7	6.1	1512.	1.00	0.	0.	12.1	28.5	340.	11.	0.03
44.10	1435.	39.4	8.2	2024.	1.00	0.	0.	12.2	29.1	330.	15.	0.05
44.25	1457.	40.5	8.1	1992.	1.00	0.	0.	11.8	28.3	335.	14.	0.04
44.40	1489.	38.6	7.9	1955.	1.00	0.	0.	11.8	28.3	342.	14.	0.04
44.55	1462.	40.7	9.8	2419.	1.00	0.	0.	12.1	29.4	336.	18.	0.05
44.70	1411.	38.7	10.4	2565.	1.02	1.4	17.	12.4	30.2	325.	20.	0.06
44.85	1476.	36.0	10.7	2632.	1.11	6.6	85.	12.4	30.3	339.	20.	0.06
45.00	1539.	35.4	10.8	2656.	1.09	5.3	69.	12.2	30.0	354.	20.	0.06
45.15	1571.	35.2	10.3	2533.	1.13	7.8	96.	12.2	29.9	361.	19.	0.05
45.30	1648.	33.7	11.0	2715.	1.21	12.6	166.	12.3	30.2	379.	21.	0.06
45.45	1681.	33.2	11.1	2722.	1.17	10.5	139.	12.6	30.9	387.	21.	0.06

DATE OF TEST- 9 25 78
RUN NUMBER- 34
SEGMENT NUMBER- 3
WATER DEPTH- 18 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 2000 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1739.	32.8	11.1	2727.	1.18	11.1	147.	12.2	30.2	400.	21.	0.05
0.15	1624.	33.2	11.1	2719.	1.16	9.8	130.	12.2	30.2	373.	21.	0.06
0.30	1517.	37.3	10.8	2651.	1.17	10.3	132.	12.2	30.1	349.	20.	0.06
0.45	1490.	39.3	10.6	2602.	1.19	11.3	142.	12.5	30.5	343.	20.	0.06
0.60	1470.	40.0	10.5	2578.	1.19	11.5	144.	12.6	30.7	338.	20.	0.06
0.75	1452.	40.4	10.3	2532.	1.14	8.3	102.	12.5	30.5	334.	20.	0.06
0.90	1442.	39.9	10.1	2473.	1.21	12.7	152.	12.2	29.8	332.	19.	0.06
1.05	1411.	39.5	10.1	2474.	1.23	14.1	169.	12.2	29.8	324.	19.	0.06
1.20	1423.	39.7	10.3	2527.	1.17	10.1	124.	12.2	29.8	327.	19.	0.06
1.35	1463.	39.5	10.3	2531.	1.19	11.6	143.	12.7	30.8	337.	20.	0.06
1.50	1508.	37.6	9.8	2401.	1.26	15.6	182.	12.4	30.2	347.	19.	0.05
1.65	1642.	35.0	10.2	2507.	1.20	12.0	147.	12.5	30.5	378.	20.	0.05
1.80	1761.	34.4	10.2	2519.	1.17	10.2	124.	12.8	31.2	405.	20.	0.05
1.95	1742.	34.4	9.9	2446.	1.17	10.0	119.	12.9	31.4	401.	20.	0.05
2.10	1572.	36.8	10.1	2478.	1.17	10.5	127.	13.1	31.7	362.	20.	0.06
2.25	1500.	40.3	10.0	2471.	1.19	11.5	138.	12.8	31.2	345.	20.	0.06
2.40	1496.	42.2	9.9	2440.	1.10	6.3	74.	12.8	31.2	344.	19.	0.06
2.55	1481.	42.2	9.8	2411.	1.17	10.1	119.	13.1	31.7	341.	19.	0.06
2.70	1464.	41.9	9.7	2391.	1.21	12.6	147.	13.1	31.8	337.	19.	0.06
2.85	1458.	41.3	9.8	2408.	1.14	8.3	97.	12.7	30.8	335.	19.	0.06
3.00	1405.	40.8	10.0	2456.	1.15	9.2	110.	12.5	30.4	323.	19.	0.05
3.15	1450.	39.3	9.9	2447.	1.23	14.1	167.	12.8	31.2	334.	19.	0.06
3.30	1523.	38.7	10.1	2490.	1.21	12.9	156.	13.1	31.9	350.	20.	0.06
3.45	1571.	38.8	10.3	2538.	1.14	8.3	102.	13.2	32.1	361.	21.	0.06
3.60	1696.	35.8	10.2	2517.	1.16	9.9	121.	13.4	32.6	390.	21.	0.05
3.75	1741.	34.6	10.2	2503.	1.21	12.5	151.	13.4	32.5	400.	21.	0.05
3.90	1685.	35.1	10.1	2484.	1.14	8.2	99.	13.5	32.6	387.	21.	0.05
4.05	1505.	37.1	10.1	2495.	1.09	5.4	66.	13.7	33.1	346.	21.	0.06
4.20	1478.	41.5	10.2	2506.	1.10	6.4	77.	13.4	32.5	340.	21.	0.06
4.35	1464.	41.6	10.2	2501.	1.17	10.1	123.	13.1	31.8	337.	20.	0.06
4.50	1461.	41.5	10.1	2479.	1.12	7.6	91.	13.5	32.6	336.	21.	0.06
4.65	1458.	41.5	9.6	2362.	1.10	6.0	69.	13.7	33.1	335.	20.	0.06
4.80	1456.	40.8	9.8	2410.	1.15	9.3	109.	13.7	33.0	335.	20.	0.06

RUN NUMBER- 34
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1431.	39.9	9.9	2428.	1.19	11.7	138.	13.4	32.5	329.	20.	0.06
5.10	1453.	39.5	10.2	2511.	1.09	5.6	68.	13.4	32.6	334.	21.	0.06
5.25	1557.	38.4	10.3	2543.	1.12	7.6	94.	13.5	32.7	358.	21.	0.06
5.40	1657.	36.5	10.3	2536.	1.17	10.5	130.	13.8	33.5	381.	22.	0.06
5.55	1782.	34.5	10.3	2524.	1.11	7.9	85.	14.0	34.0	410.	22.	0.05
5.70	1688.	34.0	10.2	2512.	1.10	6.2	76.	14.2	34.4	388.	22.	0.06
5.85	1552.	34.9	10.2	2505.	1.12	7.3	89.	14.3	34.6	357.	22.	0.06
6.00	1504.	39.4	10.2	2507.	1.13	8.1	98.	14.4	34.9	346.	22.	0.06
6.15	1471.	41.7	10.2	2517.	1.12	7.1	87.	14.6	35.2	338.	23.	0.07
6.30	1484.	41.4	10.2	2508.	1.09	5.3	65.	14.0	33.9	341.	22.	0.06
6.45	1464.	41.0	10.1	2482.	1.13	8.0	96.	14.0	33.9	337.	21.	0.06
6.60	1441.	40.3	9.9	2442.	1.17	10.2	121.	14.2	34.4	332.	21.	0.06
6.75	1413.	40.3	10.0	2456.	1.08	4.7	56.	14.3	34.5	325.	22.	0.07
6.90	1441.	39.4	10.2	2513.	1.13	7.8	95.	14.5	35.1	331.	22.	0.07
7.05	1516.	37.9	10.1	2480.	1.19	11.4	138.	14.6	35.3	349.	22.	0.06
7.20	1578.	36.7	10.0	2467.	1.13	7.9	94.	14.6	35.3	363.	22.	0.06
7.35	1625.	35.2	9.7	2380.	1.09	5.5	64.	14.6	35.1	374.	21.	0.06
7.50	1766.	33.8	9.6	2362.	1.11	6.9	80.	14.6	35.1	406.	21.	0.05
7.65	1569.	34.3	9.7	2393.	1.14	8.3	96.	14.4	34.7	361.	21.	0.06
7.80	1488.	37.3	9.9	2441.	1.11	6.8	81.	14.6	35.2	342.	22.	0.06
7.95	1493.	40.9	10.3	2529.	1.06	3.8	46.	14.6	35.3	343.	23.	0.07
8.10	1497.	41.9	10.3	2536.	1.08	4.8	59.	14.6	35.3	344.	23.	0.07
8.25	1482.	41.0	10.3	2530.	1.14	8.7	107.	15.0	36.2	341.	23.	0.07
8.40	1469.	40.3	10.1	2488.	1.08	5.1	62.	15.0	36.2	338.	23.	0.07
8.55	1447.	40.0	10.0	2460.	1.10	5.8	69.	15.1	36.3	333.	23.	0.07
8.70	1431.	39.5	10.1	2477.	1.14	8.3	100.	15.2	36.6	329.	23.	0.07
8.85	1441.	38.3	9.9	2428.	1.13	7.7	90.	15.2	36.6	332.	23.	0.07
9.00	1535.	37.4	10.2	2503.	1.09	5.4	66.	15.2	36.6	353.	23.	0.07
9.15	1616.	36.6	10.0	2467.	1.11	6.9	83.	15.2	36.6	372.	23.	0.06
9.30	1703.	34.7	10.2	2516.	1.15	9.3	113.	15.2	36.8	392.	24.	0.06
9.45	1783.	34.1	10.3	2522.	1.11	7.0	85.	15.7	37.9	410.	24.	0.06
9.60	1676.	33.2	10.2	2518.	1.09	5.5	67.	15.5	37.5	385.	24.	0.06
9.75	1487.	36.4	10.3	2540.	1.09	5.3	65.	15.5	37.4	342.	24.	0.07
9.90	1494.	39.4	10.3	2538.	1.12	7.5	93.	15.5	37.4	344.	24.	0.07
10.05	1489.	41.5	10.3	2528.	1.12	7.1	88.	15.6	37.6	343.	24.	0.07
10.20	1483.	41.5	10.3	2527.	1.09	5.5	67.	15.8	38.0	341.	24.	0.07
10.35	1473.	40.8	9.8	2415.	1.11	6.8	79.	15.2	36.7	339.	22.	0.07
10.50	1431.	39.9	10.0	2458.	1.17	10.5	126.	15.4	37.0	329.	23.	0.07
10.65	1426.	39.7	10.2	2510.	1.10	6.3	77.	15.2	36.7	328.	23.	0.07

RUN NUMBER- 34
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1456.	39.2	10.0	2464.	1.11	6.8	81.	15.4	37.1	335.	23.	0.07
10.95	1491.	37.7	9.8	2418.	1.17	10.2	119.	15.8	37.9	343.	23.	0.07
11.10	1567.	34.7	10.3	2530.	1.13	7.7	95.	15.3	36.9	360.	24.	0.07
11.25	1739.	34.5	10.4	2553.	1.11	6.7	83.	15.6	37.7	400.	24.	0.06
11.40	1763.	33.8	10.1	2483.	1.12	7.3	88.	15.9	38.3	405.	24.	0.06
11.55	1510.	35.5	10.3	2532.	1.14	8.5	105.	16.1	38.7	347.	25.	0.07
11.70	1479.	38.8	10.4	2550.	1.12	7.5	93.	16.0	38.5	340.	25.	0.07
11.85	1475.	41.3	10.2	2510.	1.10	6.2	75.	15.8	38.1	339.	24.	0.07
12.00	1464.	41.3	10.0	2451.	1.12	7.4	88.	16.1	38.7	337.	24.	0.07
12.15	1461.	41.0	9.9	2433.	1.17	10.1	119.	16.3	39.2	336.	24.	0.07
12.30	1459.	40.5	10.1	2474.	1.14	8.4	101.	16.2	38.9	336.	24.	0.07
12.45	1428.	39.2	9.9	2424.	1.14	8.7	102.	16.1	38.5	328.	24.	0.07
12.60	1437.	38.6	9.7	2391.	1.19	11.3	132.	16.0	38.5	331.	23.	0.07
12.75	1490.	38.1	10.1	2478.	1.18	11.1	133.	16.0	38.6	343.	24.	0.07
12.90	1532.	37.3	10.4	2556.	1.15	8.9	110.	16.2	39.0	352.	25.	0.07
13.05	1649.	35.2	9.9	2440.	1.17	10.4	123.	16.4	39.3	379.	24.	0.06
13.20	1794.	33.9	10.3	2537.	1.19	11.5	142.	16.4	39.4	413.	25.	0.06
13.35	1702.	33.9	10.5	2570.	1.17	10.5	132.	16.4	39.6	391.	26.	0.07
13.50	1567.	36.2	10.4	2546.	1.14	8.4	103.	16.6	40.0	360.	26.	0.07
13.65	1497.	41.1	10.1	2486.	1.13	7.8	94.	16.3	39.3	344.	25.	0.07
13.80	1479.	41.1	10.2	2504.	1.20	12.3	150.	16.1	38.7	340.	25.	0.07
13.95	1466.	41.1	10.2	2509.	1.16	9.8	120.	16.3	39.1	337.	25.	0.07
14.10	1430.	39.6	9.9	2439.	1.16	9.5	112.	16.4	39.2	329.	24.	0.07
14.25	1445.	39.7	9.5	2325.	1.17	10.4	118.	16.4	39.1	332.	23.	0.07
14.40	1424.	39.5	10.2	2512.	1.30	18.3	223.	16.4	39.3	328.	25.	0.08
14.55	1427.	38.9	10.5	2577.	1.24	14.4	181.	16.4	39.4	328.	26.	0.08
14.70	1504.	38.3	10.0	2462.	1.23	14.1	169.	16.4	39.4	346.	25.	0.07
14.85	1576.	37.3	10.2	2511.	1.34	20.5	250.	16.6	39.9	362.	26.	0.07
15.00	1643.	35.8	10.7	2623.	1.33	19.9	253.	16.6	40.1	378.	27.	0.07
15.15	1814.	26.6	10.0	2460.	1.25	14.9	178.	17.5	42.0	417.	26.	0.06
15.30	1568.	32.5	9.0	2223.	1.21	12.5	135.	17.9	42.6	361.	24.	0.07
15.45	1520.	39.6	9.0	2207.	1.14	8.3	89.	17.5	41.7	350.	23.	0.07
15.60	1538.	43.0	6.8	1668.	1.01	0.9	7.	17.4	40.9	354.	17.	0.05
15.75	1501.	37.0	6.9	1693.	1.01	0.4	3.	17.4	40.9	345.	17.	0.05
15.90	1434.	37.2	7.0	1713.	1.00	0.	0.	18.0	42.2	330.	18.	0.06
16.05	1499.	43.6	5.5	1360.	1.01	0.3	2.	17.3	40.4	345.	14.	0.04
16.20	1403.	42.5	5.7	1404.	1.00	0.	0.	17.5	40.8	323.	15.	0.04
16.35	1414.	37.6	9.1	2234.	1.00	0.	0.	17.7	42.2	325.	24.	0.07
16.50	1456.	39.2	9.4	2300.	1.14	8.4	94.	17.6	42.0	335.	25.	0.07

RUN NUMBER- 34
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1517.	41.4	7.7	1883.	1.05	2.9	26.	17.8	41.9	349.	20.	0.06
16.80	1642.	38.5	8.7	2141.	1.01	0.3	3.	18.0	42.7	378.	23.	0.06
16.95	1723.	36.3	9.2	2250.	1.00	0.	0.	17.9	42.7	396.	24.	0.06
17.10	1728.	34.7	10.2	2505.	1.05	2.7	33.	18.2	43.7	397.	28.	0.07
17.25	1590.	34.3	9.9	2442.	1.13	7.7	91.	18.3	43.8	366.	27.	0.07
17.40	1506.	36.2	9.0	2205.	1.07	4.1	44.	18.1	43.1	346.	24.	0.07
17.55	1501.	41.3	8.7	2146.	1.15	9.3	97.	18.1	43.0	345.	23.	0.07
17.70	1497.	40.1	9.1	2236.	1.27	16.4	178.	17.8	42.4	344.	24.	0.07
17.85	1415.	40.7	9.8	2410.	1.17	10.4	122.	18.1	43.4	325.	27.	0.08
18.00	1396.	33.8	9.3	2278.	1.21	12.6	140.	18.7	44.6	321.	26.	0.08
18.15	1413.	39.1	9.9	2425.	1.17	10.1	118.	18.6	44.3	325.	27.	0.08
18.30	1438.	40.4	7.4	1809.	1.02	1.2	10.	18.4	43.4	331.	20.	0.06
18.45	1450.	35.2	8.9	2191.	1.01	0.3	3.	18.7	44.5	334.	25.	0.07
18.60	1438.	30.6	10.5	2589.	1.00	0.	0.	19.0	45.7	331.	30.	0.09
18.75	1568.	34.2	5.0	1229.	1.00	0.	0.	19.0	44.2	361.	14.	0.04
18.90	1792.	35.4	6.4	1578.	1.00	0.	0.	18.8	44.0	412.	18.	0.04
19.05	1719.	23.4	8.1	2001.	1.00	0.	0.	19.4	45.8	395.	23.	0.06
19.20	1510.	34.3	7.6	1873.	1.00	0.	0.	19.9	46.9	347.	22.	0.06
19.35	1495.	40.5	7.2	1772.	1.00	0.	0.	18.8	44.2	344.	20.	0.06
19.50	1500.	42.4	6.4	1564.	1.00	0.	0.	18.6	43.5	345.	17.	0.05
19.65	1439.	37.3	5.9	1457.	1.00	0.	0.	18.9	44.2	331.	16.	0.05
19.80	1426.	33.5	7.8	1925.	1.00	0.	0.	19.2	45.3	328.	22.	0.07
19.95	1447.	40.2	5.6	1389.	1.00	0.	0.	18.8	43.9	333.	15.	0.05
20.10	1410.	40.1	7.8	1926.	1.00	0.	0.	19.6	46.1	324.	22.	0.07
20.25	1382.	32.2	9.9	2445.	1.00	0.	0.	20.2	48.1	318.	30.	0.09
20.40	1394.	36.3	8.7	2137.	1.00	0.	0.	19.7	46.6	321.	25.	0.08
20.55	1508.	38.5	7.0	1710.	1.00	0.	0.	19.7	46.2	347.	20.	0.06
20.70	1668.	28.2	8.5	2078.	1.00	0.	0.	20.4	48.2	384.	25.	0.07
20.85	1693.	31.3	7.1	1738.	1.00	0.	0.	20.5	48.2	389.	21.	0.05
21.00	1671.	33.1	8.5	2083.	1.00	0.	0.	20.5	48.4	384.	26.	0.07
21.15	1506.	36.0	9.2	2256.	1.00	0.	0.	20.0	47.4	346.	27.	0.08
21.30	1483.	38.6	9.1	2231.	1.01	0.3	3.	19.5	46.2	341.	26.	0.08
21.45	1480.	39.1	9.6	2369.	1.00	0.	0.	19.4	46.2	340.	28.	0.08
21.60	1478.	38.7	10.6	2613.	1.19	11.7	148.	19.6	47.0	340.	31.	0.09
21.75	1410.	37.2	9.5	2340.	1.08	4.8	54.	19.6	46.6	324.	28.	0.09
21.90	1432.	35.8	9.4	2299.	1.12	7.3	82.	19.6	46.6	329.	27.	0.08
22.05	1438.	36.8	10.3	2525.	1.22	13.2	162.	19.9	47.6	331.	31.	0.09
22.20	1441.	37.0	11.1	2726.	1.17	10.1	133.	20.1	48.3	331.	33.	0.10
22.35	1501.	34.9	10.9	2678.	1.10	6.2	81.	20.4	48.9	345.	33.	0.10

SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1603.	34.0	9.7	2385.	1.14	8.7	101.	20.5	48.8	369.	30.	0.08
22.65	1723.	33.0	10.8	2666.	1.15	9.2	120.	20.7	49.6	396.	34.	0.08
22.80	1748.	32.4	10.4	2550.	1.11	6.7	83.	21.0	50.1	402.	32.	0.08
22.95	1598.	33.6	10.1	2482.	1.07	4.2	51.	21.0	50.1	368.	31.	0.09
23.10	1508.	37.9	10.1	2492.	1.06	3.9	48.	20.7	49.4	347.	31.	0.09
23.25	1499.	41.0	10.5	2577.	1.19	11.8	148.	20.2	48.2	345.	32.	0.09
23.40	1476.	41.1	10.5	2591.	1.11	6.7	84.	19.9	47.7	340.	31.	0.09
23.55	1473.	41.7	10.2	2506.	1.06	3.9	48.	20.1	48.0	339.	31.	0.09
23.70	1475.	40.0	9.7	2394.	1.14	8.6	100.	20.5	48.7	339.	30.	0.09
23.85	1430.	39.2	9.5	2339.	1.12	7.6	86.	20.5	48.7	329.	29.	0.09
24.00	1428.	39.3	9.6	2349.	1.07	4.1	47.	21.1	50.0	328.	30.	0.09
24.15	1481.	38.5	9.8	2417.	1.09	5.2	61.	21.5	51.1	341.	31.	0.09
24.30	1559.	36.5	10.3	2532.	1.16	9.6	118.	21.7	51.7	359.	33.	0.09
24.45	1672.	35.2	10.1	2495.	1.10	6.2	76.	21.4	51.0	385.	32.	0.08
24.60	1794.	34.7	9.6	2350.	1.05	3.3	38.	21.7	51.4	413.	31.	0.07
24.75	1700.	35.1	9.7	2394.	1.06	3.9	45.	21.4	50.8	391.	31.	0.08
24.90	1553.	37.7	10.1	2474.	1.10	6.1	73.	21.2	50.4	357.	32.	0.09
25.05	1511.	41.6	9.9	2435.	1.11	6.6	78.	21.1	50.2	348.	31.	0.09
25.20	1496.	42.3	9.9	2440.	1.04	2.7	32.	21.0	49.9	344.	31.	0.09
25.35	1472.	42.1	9.6	2357.	1.07	4.4	51.	20.8	49.4	338.	29.	0.09
25.50	1472.	41.9	9.0	2211.	1.14	8.3	89.	20.9	49.5	338.	28.	0.08
25.65	1466.	41.6	9.6	2362.	1.05	3.3	38.	21.1	50.1	337.	30.	0.09
25.80	1444.	40.7	9.7	2381.	1.07	4.0	46.	21.3	50.7	332.	31.	0.09
25.95	1457.	39.1	9.5	2328.	1.12	7.3	83.	21.7	51.5	335.	30.	0.09
26.10	1514.	37.9	9.5	2347.	1.09	5.5	63.	21.4	50.8	348.	30.	0.09
26.25	1578.	35.6	9.5	2340.	1.06	3.7	42.	22.1	52.4	363.	31.	0.09
26.40	1683.	34.9	8.8	2156.	1.05	3.3	34.	22.3	52.6	387.	29.	0.07
26.55	1766.	34.0	9.7	2388.	1.07	4.5	53.	22.3	52.9	406.	32.	0.08
26.70	1569.	34.5	9.5	2327.	1.07	4.2	48.	21.7	51.3	361.	30.	0.08
26.85	1499.	38.6	9.7	2384.	1.04	2.3	27.	21.5	51.0	345.	31.	0.09
27.00	1500.	41.3	9.6	2360.	1.04	2.3	27.	21.7	51.4	345.	31.	0.09
27.15	1476.	41.6	9.5	2339.	1.09	5.4	61.	21.7	51.5	339.	31.	0.09
27.30	1480.	41.6	9.7	2379.	1.04	2.4	28.	22.0	52.1	340.	31.	0.09
27.45	1467.	40.6	9.8	2404.	1.03	2.1	25.	21.7	51.6	337.	31.	0.09
27.60	1440.	40.6	9.6	2371.	1.07	4.1	47.	22.1	52.5	331.	32.	0.10
27.75	1415.	39.8	9.7	2374.	1.08	5.0	57.	22.0	52.2	325.	31.	0.10
27.90	1474.	38.4	10.0	2449.	1.05	3.1	36.	21.8	51.8	339.	32.	0.09
28.05	1536.	37.0	9.8	2420.	1.07	4.1	48.	22.1	52.5	353.	32.	0.09
28.20	1698.	35.5	9.6	2359.	1.08	5.1	58.	22.4	53.2	391.	32.	0.08

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SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1803.	34.3	9.9	2431.	1.06	3.8	45.	22.8	54.2	415.	33.	0.08
28.50	1728.	33.6	9.9	2441.	1.04	2.5	30.	23.1	54.9	398.	34.	0.09
28.65	1501.	35.6	9.8	2420.	1.06	3.5	41.	22.7	54.0	345.	33.	0.10
28.80	1498.	40.8	9.9	2426.	1.08	4.8	57.	22.5	53.3	344.	33.	0.10
28.95	1493.	41.5	9.9	2440.	1.06	3.7	44.	22.3	53.0	343.	33.	0.10
29.10	1483.	40.9	10.0	2452.	1.05	3.3	39.	23.0	54.6	341.	34.	0.10
29.25	1463.	40.6	9.9	2432.	1.11	6.4	76.	23.0	54.6	336.	34.	0.10
29.40	1432.	40.0	10.2	2510.	1.10	6.3	77.	23.2	55.1	329.	35.	0.11
29.55	1409.	40.0	9.8	2410.	1.06	3.6	43.	23.4	55.4	324.	34.	0.10
29.70	1423.	39.3	9.5	2329.	1.08	5.0	56.	23.3	55.1	327.	33.	0.10
29.85	1549.	37.8	10.3	2527.	1.15	9.3	114.	23.6	56.2	356.	36.	0.10
30.00	1574.	35.8	10.1	2476.	1.13	5.8	69.	24.1	57.1	362.	36.	0.10
30.15	1620.	34.2	9.5	2345.	1.09	5.3	60.	24.5	57.9	373.	34.	0.09
30.30	1731.	34.2	9.6	2358.	1.12	7.0	81.	24.7	58.3	398.	35.	0.09
30.45	1675.	33.4	10.0	2458.	1.14	8.2	98.	24.5	58.1	385.	36.	0.09
30.60	1506.	37.4	9.6	2351.	1.08	5.1	59.	24.1	57.1	346.	34.	0.10
30.75	1494.	40.5	9.7	2384.	1.07	4.1	47.	23.6	56.0	344.	34.	0.10
30.90	1481.	41.0	9.9	2443.	1.10	6.3	75.	23.5	55.6	341.	34.	0.10
31.05	1477.	40.6	10.0	2463.	1.20	12.4	148.	23.5	55.7	340.	35.	0.10
31.20	1477.	40.6	10.2	2498.	1.07	4.1	50.	23.2	55.1	340.	35.	0.10
31.35	1455.	40.1	10.1	2476.	1.11	6.6	79.	23.8	56.4	335.	35.	0.11
31.50	1432.	39.3	10.4	2562.	1.23	14.1	176.	23.9	56.9	329.	37.	0.11
31.65	1445.	38.8	10.4	2566.	1.13	8.2	102.	24.3	57.8	332.	38.	0.11
31.80	1488.	38.5	10.2	2503.	1.11	6.8	83.	24.4	57.8	342.	37.	0.11
31.95	1607.	35.3	10.4	2552.	1.17	10.0	124.	24.6	58.3	370.	38.	0.10
32.10	1694.	34.1	10.5	2570.	1.19	11.4	142.	24.4	58.1	390.	38.	0.10
32.25	1797.	34.1	10.1	2481.	1.11	6.7	81.	24.9	58.9	413.	37.	0.09
32.40	1666.	34.8	10.1	2487.	1.07	4.1	49.	24.8	58.9	383.	37.	0.10
32.55	1481.	39.4	10.1	2491.	1.12	7.4	90.	24.4	57.8	341.	37.	0.11
32.70	1485.	41.2	9.9	2434.	1.17	10.0	119.	24.4	57.8	342.	36.	0.10
32.85	1477.	41.7	10.0	2460.	1.06	3.6	43.	24.3	57.6	340.	36.	0.11
33.00	1465.	41.5	9.9	2443.	1.10	6.1	72.	24.2	57.3	337.	35.	0.11
33.15	1453.	40.2	10.3	2531.	1.23	14.1	174.	24.6	58.5	334.	38.	0.11
33.30	1433.	39.4	10.4	2548.	1.13	7.6	94.	24.3	57.8	330.	37.	0.11
33.45	1425.	39.6	10.1	2490.	1.13	7.7	93.	24.1	57.3	328.	36.	0.11
33.60	1455.	38.6	10.0	2457.	1.20	12.0	143.	24.3	57.6	335.	36.	0.11
33.75	1521.	36.2	10.5	2574.	1.24	14.7	183.	24.6	58.5	350.	38.	0.11
33.90	1613.	35.6	10.4	2546.	1.12	7.1	87.	25.5	60.5	371.	39.	0.11
34.05	1785.	34.8	10.1	2484.	1.12	7.1	85.	25.3	59.9	410.	38.	0.09

RUN NUMBER- 34
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	1645.	34.4	10.3	2542.	1.17	10.5	130.	25.4	60.3	378.	39.	0.10
34.35	1543.	35.6	10.3	2531.	1.17	10.2	125.	25.6	60.6	355.	39.	0.11
34.5[illegible]	1502.	40.6	10.2	2507.	1.08	4.8	58.	25.1	59.6	346.	38.	0.11
34.65	1496.	42.4	10.2	2504.	1.13	8.1	98.	24.7	58.6	344.	37.	0.11
34.8[illegible]	1489.	40.7	10.3	2523.	1.21	12.8	157.	24.6	58.5	343.	38.	0.11
34.95	1467.	40.9	10.4	2555.	1.19	11.5	142.	24.6	58.5	337.	38.	0.11
35.1[illegible]	1462.	40.8	10.3	2524.	1.09	5.3	65.	24.8	58.8	336.	38.	0.11
35.25	1438.	40.4	9.9	2445.	1.19	11.3	134.	25.2	59.8	331.	37.	0.11
35.40	1441.	38.6	10.3	2525.	1.25	15.1	185.	25.1	59.6	331.	38.	0.12
35.55	1475.	38.5	10.2	2516.	1.10	6.0	74.	25.0	59.3	339.	38.	0.11
35.7[illegible]	1526.	38.2	10.4	2565.	1.14	8.6	107.	25.2	59.8	351.	39.	0.11
35.85	1602.	35.3	10.5	2581.	1.24	14.4	180.	26.0	61.6	369.	40.	0.11
36.0[illegible]	1775.	34.4	10.3	2527.	1.17	10.1	124.	25.4	60.2	408.	39.	0.09
36.15	1709.	34.9	10.1	2489.	1.11	7.0	84.	25.3	60.0	393.	38.	0.10
36.3[illegible]	1510.	38.0	10.1	2489.	1.12	7.3	88.	25.8	61.2	347.	39.	0.11
36.45	150[illegible]	40.4	10.0	2455.	1.16	9.4	112.	25.8	61.0	345.	38.	0.11
36.6[illegible]	1474.	41.7	10.3	2522.	1.19	11.6	142.	25.5	60.5	339.	39.	0.11
36.75	1471.	42.0	9.9	2434.	1.11	6.5	77.	25.4	60.1	338.	37.	0.11
36.90	1467.	41.7	9.8	2412.	1.15	9.3	109.	25.9	61.2	337.	37.	0.11
37.05	1449.	40.6	9.9	2438.	1.24	14.3	170.	26.1	61.7	333.	38.	0.11
37.20	1414.	40.0	10.2	2513.	1.19	11.3	138.	26.1	61.9	325.	40.	0.12
37.35	1429.	40.4	10.2	2498.	1.15	9.2	112.	26.1	61.9	329.	39.	0.12
37.50	1541.	37.6	10.0	2456.	1.25	15.4	183.	26.3	62.3	355.	39.	0.11
37.65	1575.	36.1	10.3	2522.	1.24	14.6	179.	26.3	62.2	362.	40.	0.11
37.80	1681.	35.3	10.2	2516.	1.15	9.2	113.	26.0	61.6	387.	39.	0.10
37.95	1804.	34.8	9.9	2446.	1.15	9.1	108.	26.0	61.5	415.	38.	0.09
38.10	1548.	36.4	10.3	2524.	1.18	11.1	136.	26.4	62.5	356.	40.	0.11
38.25	1503.	40.0	10.2	2520.	1.19	11.7	143.	26.0	61.7	346.	39.	0.11
38.40	1493.	42.6	10.3	2521.	1.12	7.3	90.	25.9	61.3	343.	39.	0.11
38.55	1478.	42.3	10.3	2522.	1.12	7.5	92.	26.4	62.5	340.	40.	0.12
38.7[illegible]	1466.	41.7	9.8	2403.	1.23	13.7	160.	26.4	62.4	337.	38.	0.11
38.85	1458.	41.7	10.1	2473.	1.22	13.1	157.	26.4	62.5	335.	39.	0.12
39.0[illegible]	1442.	41.7	9.9	2425.	1.12	7.2	85.	26.3	62.1	332.	38.	0.12
39.15	1444.	40.5	9.8	2414.	1.16	9.8	114.	26.4	62.4	332.	38.	0.12
39.3[illegible]	1487.	39.0	10.2	2516.	1.23	14.0	170.	26.6	63.1	342.	40.	0.12
39.45	1546.	37.9	10.1	2484.	1.13	8.2	98.	26.4	62.5	356.	39.	0.11
39.60	1635.	37.1	9.8	2418.	1.12	7.4	87.	26.5	62.6	376.	38.	0.10
39.75	1741.	35.8	9.6	2353.	1.17	10.4	119.	27.3	64.5	400.	39.	0.10
39.9[illegible]	1776.	34.6	10.3	2531.	1.18	11.0	135.	27.3	64.6	409.	42.	0.10

RUN NUMBER- 34
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1561.	35.8	10.1	2488.	1.11	6.7	80.	26.5	62.8	359.	40.	0.11
40.20	1478.	42.0	9.9	2447.	1.12	7.1	85.	26.2	62.0	340.	38.	0.11
40.35	1475.	42.0	9.9	2425.	1.18	10.9	129.	26.6	62.9	339.	39.	0.11
40.50	1463.	41.7	9.9	2425.	1.25	15.1	178.	26.9	63.6	337.	39.	0.12
40.65	1479.	41.7	9.7	2388.	1.13	7.6	88.	27.0	63.8	340.	39.	0.11
40.80	1459.	40.9	9.5	2337.	1.19	11.7	132.	27.0	63.7	336.	38.	0.11
40.95	1406.	40.4	10.1	2483.	1.26	15.8	191.	27.0	63.9	323.	40.	0.12
41.10	1385.	40.2	10.4	2551.	1.17	10.2	126.	27.0	64.0	318.	41.	0.13
41.25	1431.	38.9	9.8	2414.	1.17	10.3	121.	27.0	63.8	329.	39.	0.12
41.40	1561.	36.2	10.4	2567.	1.25	14.9	186.	27.6	65.3	359.	43.	0.12
41.55	1670.	35.0	10.2	2518.	1.18	10.8	132.	27.3	64.7	384.	41.	0.11
41.70	1766.	35.0	10.0	2465.	1.12	7.3	88.	27.3	64.6	406.	40.	0.10
41.85	1760.	34.2	10.0	2452.	1.11	6.9	82.	28.2	66.6	405.	41.	0.10
42.00	1522.	38.3	10.1	2478.	1.13	8.2	98.	27.5	65.1	350.	41.	0.12
42.15	1457.	41.7	10.1	2477.	1.11	6.5	78.	27.1	64.2	335.	40.	0.12
42.30	1473.	42.5	10.1	2482.	1.07	4.5	54.	27.4	64.7	339.	41.	0.12
42.45	1468.	42.1	9.9	2434.	1.10	5.8	69.	27.6	65.2	338.	40.	0.12
42.60	1446.	40.3	10.4	2549.	1.21	12.7	158.	27.8	65.8	333.	43.	0.13
42.75	1424.	40.0	10.2	2507.	1.09	5.6	68.	28.4	67.1	327.	43.	0.13
42.90	1416.	39.8	9.8	2403.	1.12	7.0	82.	27.6	65.2	326.	40.	0.12
43.05	1439.	38.8	9.9	2433.	1.22	13.2	155.	28.0	66.2	331.	41.	0.12
43.20	1504.	37.8	10.6	2595.	1.18	11.1	140.	28.2	66.8	346.	44.	0.13
43.35	1544.	36.7	10.6	2596.	1.12	7.5	94.	28.6	67.7	355.	45.	0.13
43.50	1716.	34.6	10.1	2475.	1.14	8.4	101.	28.6	67.6	395.	42.	0.11
43.65	1729.	34.2	10.5	2592.	1.17	10.4	131.	28.5	67.5	398.	44.	0.11
43.80	1576.	35.4	10.5	2584.	1.16	9.9	124.	29.1	68.8	362.	45.	0.12
43.95	1500.	39.2	10.1	2490.	1.09	5.6	67.	28.2	66.6	345.	42.	0.12
44.10	1484.	42.1	9.9	2430.	1.10	6.1	71.	27.9	65.9	341.	41.	0.12
44.25	1456.	41.6	10.2	2502.	1.18	11.1	135.	27.9	65.9	335.	42.	0.13
44.40	1445.	41.6	10.3	2541.	1.16	9.9	122.	27.9	65.9	332.	43.	0.13
44.55	1459.	41.4	10.3	2534.	1.10	6.2	77.	28.4	67.2	336.	43.	0.13
44.70	1414.	39.8	10.1	2486.	1.16	9.7	117.	28.4	67.0	325.	42.	0.13
44.85	1409.	39.5	10.3	2542.	1.18	10.8	133.	28.1	66.4	324.	43.	0.13
45.00	1462.	39.0	10.3	2534.	1.12	7.5	93.	28.5	67.3	336.	43.	0.13
45.15	1519.	37.9	9.9	2427.	1.12	7.5	88.	28.9	68.2	349.	42.	0.12
45.30	1553.	36.5	9.6	2366.	1.15	9.2	106.	29.4	69.2	357.	41.	0.12
45.45	1574.	34.3	10.3	2537.	1.11	6.7	83.	29.1	68.8	362.	44.	0.12
45.60	1596.	34.0	10.0	2447.	1.09	5.3	63.	29.4	69.3	367.	43.	0.12
45.75	1536.	36.9	9.9	2443.	1.08	4.6	55.	29.0	68.5	353.	42.	0.12
45.90	1476.	41.0	10.2	2498.	1.09	5.3	65.	28.8	68.0	339.	43.	0.13

LOCATION- MASONBORO INLET
DATE OF TEST- 9 26 78
RUN NUMBER- 35
SEGMENT NUMBER- 1
WATER DEPTH- 12 TO 14 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	-155.	0.3	0.7	168.	1.00	0.	0.	ND	NC	-36.	NC	NC
0.15	-121.	0.8	0.6	159.	1.00	0.	0.	ND	NC	-28.	NC	NC
0.30	-87.	1.3	0.6	151.	1.00	0.	0.	ND	NC	-20.	NC	NC
0.45	-53.	1.9	0.6	136.	1.00	0.	0.	ND	NC	-12.	NC	NC
0.60	-16.	2.9	0.5	128.	1.00	0.	0.	ND	NC	-4.	NC	NC
0.75	16.	4.0	0.5	115.	1.00	0.	0.	ND	NC	4.	NC	NC
0.90	50.	5.0	0.4	102.	1.00	0.	0.	ND	NC	11.	NC	NC
1.05	84.	5.0	0.4	107.	1.00	0.	0.	ND	NC	19.	NC	NC
1.20	118.	6.2	0.6	157.	1.00	0.	0.	ND	NC	27.	NC	NC
1.35	152.	7.0	0.7	181.	1.00	0.	0.	ND	NC	35.	NC	NC
1.50	186.	8.6	0.6	157.	1.00	0.	0.	ND	NC	43.	NC	NC
1.65	238.	9.9	0.6	152.	1.00	0.	0.	ND	NC	55.	NC	NC
1.80	361.	10.3	0.9	210.	1.00	0.	0.	ND	NC	83.	NC	NC
1.95	415.	10.6	1.8	432.	1.00	0.	0.	ND	NC	96.	NC	NC
2.10	403.	11.6	2.8	689.	1.00	0.	0.	ND	NC	93.	NC	NC
2.25	356.	13.5	3.4	826.	1.00	0.	0.	ND	NC	82.	NC	NC
2.40	376.	14.8	3.5	871.	1.00	0.	0.	ND	NC	87.	NC	NC
2.55	468.	15.4	4.5	1096.	1.00	0.	0.	ND	NC	108.	NC	NC
2.70	593.	14.4	5.1	1246.	1.00	0.	0.	ND	NC	136.	NC	NC
2.85	609.	14.7	6.0	1471.	1.00	0.	0.	ND	NC	140.	NC	NC
3.00	654.	15.0	7.3	1792.	1.00	0.	0.	ND	NC	150.	NC	NC
3.15	720.	15.3	8.0	1959.	1.02	1.0	10.	ND	NC	166.	NC	NC
3.30	781.	15.5	8.3	2034.	1.03	2.1	21.	ND	NC	180.	NC	NC
3.45	841.	16.0	8.5	2086.	1.02	1.2	13.	ND	NC	193.	NC	NC
3.60	912.	16.4	8.8	2153.	1.02	1.2	12.	ND	NC	210.	NC	NC
3.75	956.	16.3	9.2	2266.	1.02	1.3	15.	ND	NC	220.	NC	NC
3.90	1011.	17.3	9.6	2366.	1.02	1.4	16.	ND	NC	233.	NC	NC
4.05	1087.	18.2	9.7	2386.	1.02	1.4	16.	ND	NC	250.	NC	NC
4.20	1080.	19.4	9.9	2422.	1.03	1.6	19.	ND	NC	248.	NC	NC
4.35	1055.	20.9	9.7	2390.	1.03	1.7	20.	ND	NC	243.	NC	NC
4.50	1022.	21.7	9.8	2415.	1.03	1.8	21.	ND	NC	235.	NC	NC
4.65	1003.	21.6	9.7	2392.	1.02	1.4	16.	ND	NC	231.	NC	NC
4.80	995.	21.2	9.8	2415.	1.02	1.0	12.	ND	NC	229.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	995.	21.0	9.7	2394.	1.02	1.2	14.	ND	NC	229.	NC	NC
5.10	994.	20.6	9.7	2377.	1.01	0.8	9.	ND	NC	229.	NC	NC
5.25	1004.	19.6	9.7	2374.	1.02	1.2	14.	ND	NC	231.	NC	NC
5.40	1022.	18.9	9.6	2367.	1.03	1.6	18.	ND	NC	235.	NC	NC
5.55	1032.	18.1	9.6	2366.	1.02	1.3	15.	ND	NC	237.	NC	NC
5.70	1047.	17.2	9.7	2396.	1.02	1.2	14.	ND	NC	241.	NC	NC
5.85	1080.	16.8	9.6	2354.	1.01	0.7	8.	ND	NC	249.	NC	NC
6.00	1067.	17.2	9.6	2354.	1.02	1.0	12.	ND	NC	245.	NC	NC
6.15	1026.	18.6	9.6	2355.	1.02	1.1	12.	ND	NC	236.	NC	NC
6.30	992.	20.8	9.6	2352.	1.02	1.5	17.	ND	NC	228.	NC	NC
6.45	990.	21.0	9.6	2364.	1.02	1.4	16.	ND	NC	228.	NC	NC
6.60	995.	20.8	9.8	2405.	1.02	1.3	15.	ND	NC	229.	NC	NC
6.75	994.	20.6	9.6	2357.	1.02	1.1	13.	ND	NC	229.	NC	NC
6.90	1062.	20.3	9.5	2331.	1.01	0.9	10.	ND	NC	244.	NC	NC
7.05	1097.	21.8	9.2	2270.	1.02	1.0	11.	ND	NC	252.	NC	NC
7.20	1266.	25.5	9.6	2360.	1.02	1.3	15.	ND	NC	291.	NC	NC
7.35	1437.	25.5	10.5	2587.	1.02	1.4	18.	ND	NC	331.	NC	NC
7.50	1460.	25.3	10.9	2671.	1.03	2.1	27.	ND	NC	336.	NC	NC
7.65	1533.	25.4	11.0	2703.	1.07	4.2	55.	ND	NC	353.	NC	NC
7.80	1613.	23.9	11.1	2727.	1.06	3.8	50.	ND	NC	371.	NC	NC
7.95	1717.	21.2	11.5	2836.	1.03	1.9	26.	ND	NC	395.	NC	NC
8.10	1590.	24.9	10.7	2641.	1.03	2.0	26.	ND	NC	366.	NC	NC
8.25	1546.	28.7	11.0	2708.	1.01	0.7	9.	ND	NC	356.	NC	NC
8.40	1501.	30.4	10.2	2509.	1.00	0.	0.	ND	NC	345.	NC	NC
8.55	1478.	29.2	9.9	2432.	1.00	0.	0.	ND	NC	340.	NC	NC
8.70	1472.	29.3	11.0	2702.	1.00	0.	0.	ND	NC	338.	NC	NC
8.85	1457.	29.3	10.2	2513.	1.02	1.2	15.	ND	NC	335.	NC	NC
9.00	1435.	28.4	10.2	2506.	1.01	0.6	7.	ND	NC	330.	NC	NC
9.15	1423.	27.0	10.9	2680.	1.01	0.6	7.	ND	NC	327.	NC	NC
9.30	1411.	26.3	10.6	2605.	1.03	1.8	22.	ND	NC	325.	NC	NC
9.45	1459.	25.4	9.8	2413.	1.03	1.7	20.	ND	NC	336.	NC	NC
9.60	1490.	23.8	10.0	2454.	1.00	0.	0.	ND	NC	343.	NC	NC
9.75	1542.	23.3	10.5	2585.	1.03	2.0	25.	ND	NC	355.	NC	NC
9.90	1618.	23.6	10.6	2618.	1.01	0.5	6.	ND	NC	372.	NC	NC
10.05	1585.	25.1	9.4	2317.	1.00	0.	0.	ND	NC	365.	NC	NC
10.20	1498.	27.7	10.0	2464.	1.00	0.	0.	ND	NC	345.	NC	NC
10.35	1468.	29.8	10.5	2590.	1.00	0.	0.	ND	NC	338.	NC	NC
10.50	1457.	31.5	10.5	2583.	1.00	0.	0.	ND	NC	335.	NC	NC
10.65	1482.	30.5	9.3	2294.	1.00	0.	0.	ND	NC	341.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1428.	29.6	10.3	2538.	1.00	0.	0.	ND	NC	329.	NC	NC
10.95	1426.	29.1	10.7	2622.	1.00	0.	0.	ND	NC	328.	NC	NC
11.10	1418.	28.2	11.0	2700.	1.07	4.4	57.	ND	NC	326.	NC	NC
11.25	1418.	26.6	11.2	2766.	1.01	0.7	9.	ND	NC	326.	NC	NC
11.40	1454.	25.4	11.3	2786.	1.06	3.8	52.	ND	NC	334.	NC	NC
11.55	1511.	24.7	11.3	2776.	1.08	4.9	66.	ND	NC	348.	NC	NC
11.70	1578.	24.0	11.2	2751.	1.04	2.4	32.	ND	NC	363.	NC	NC
11.85	1655.	23.3	11.1	2722.	1.03	1.8	24.	ND	NC	381.	NC	NC
12.00	1575.	25.4	11.1	2719.	1.03	1.8	24.	ND	NC	362.	NC	NC
12.15	1486.	28.1	11.1	2741.	1.01	0.8	10.	ND	NC	342.	NC	NC
12.30	1480.	30.0	10.3	2522.	1.01	0.4	5.	ND	NC	340.	NC	NC
12.45	1467.	30.8	10.6	2604.	1.00	0.	0.	ND	NC	337.	NC	NC
12.60	1441.	28.8	11.1	2723.	1.01	0.4	5.	ND	NC	332.	NC	NC
12.75	1434.	29.3	9.0	2215.	1.03	2.1	22.	ND	NC	330.	NC	NC
12.90	1429.	28.6	9.6	2368.	1.01	0.4	4.	ND	NC	329.	NC	NC
13.05	1418.	28.0	10.2	2511.	1.00	0.	0.	ND	NC	326.	NC	NC
13.20	1420.	27.3	10.6	2609.	1.07	4.0	51.	ND	NC	327.	NC	NC
13.35	1456.	25.5	10.7	2629.	1.03	1.9	25.	ND	NC	335.	NC	NC
13.50	1495.	23.2	10.7	2632.	1.02	1.2	16.	ND	NC	344.	NC	NC
13.65	1569.	23.6	11.0	2711.	1.04	2.5	33.	ND	NC	361.	NC	NC
13.80	1640.	25.2	10.9	2679.	1.05	2.8	36.	ND	NC	377.	NC	NC
13.95	1589.	25.9	10.5	2594.	1.00	0.	0.	ND	NC	365.	NC	NC
14.10	1504.	27.2	10.5	2591.	1.00	0.	0.	ND	NC	346.	NC	NC
14.25	1468.	29.8	10.9	2678.	1.00	0.	0.	ND	NC	338.	NC	NC
14.40	1459.	30.1	10.5	2582.	1.03	1.5	19.	ND	NC	336.	NC	NC
14.55	1457.	30.3	10.2	2519.	1.01	0.7	8.	ND	NC	335.	NC	NC
14.70	1444.	28.4	10.8	2660.	1.01	0.6	8.	ND	NC	332.	NC	NC
14.85	1423.	28.2	10.8	2647.	1.05	3.2	42.	ND	NC	327.	NC	NC
15.00	1411.	28.2	10.0	2449.	1.05	3.0	35.	ND	NC	325.	NC	NC
15.15	1413.	26.9	10.5	2585.	1.00	0.	0.	ND	NC	325.	NC	NC
15.30	1464.	24.8	10.9	2693.	1.03	1.6	21.	ND	NC	337.	NC	NC
15.45	1528.	24.0	10.3	2543.	1.11	6.6	81.	ND	NC	351.	NC	NC
15.60	1617.	24.4	9.3	2290.	1.02	1.1	12.	ND	NC	372.	NC	NC
15.75	1667.	23.7	8.8	2154.	1.00	0.	0.	ND	NC	383.	NC	NC
15.90	1627.	23.0	8.7	2129.	1.02	1.3	14.	ND	NC	374.	NC	NC
16.05	1497.	27.9	9.0	2208.	1.03	1.7	18.	ND	NC	344.	NC	NC
16.20	1488.	32.4	6.8	1671.	1.01	0.7	6.	ND	NC	342.	NC	NC
16.35	1493.	31.0	5.9	1442.	1.00	0.	0.	ND	NC	343.	NC	NC
16.50	1454.	32.1	8.1	1990.	1.00	0.	0.	ND	NC	334.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1468.	33.5	6.3	1554.	1.01	0.5	4.	ND	NC	338.	NC	NC
16.80	1429.	31.5	8.6	2116.	1.00	0.	0.	ND	NC	329.	NC	NC
16.95	1382.	28.7	10.3	2545.	1.00	0.	0.	ND	NC	318.	NC	NC
17.10	1395.	28.9	9.9	2428.	1.01	0.9	10.	ND	NC	321.	NC	NC
17.25	1478.	28.9	8.8	2160.	1.01	0.4	4.	ND	NC	340.	NC	NC
17.40	1527.	27.0	11.3	2776.	1.00	0.	0.	ND	NC	351.	NC	NC
17.55	1586.	24.3	11.3	2785.	1.02	1.2	16.	ND	NC	365.	NC	NC
17.70	1649.	24.6	10.5	2592.	1.06	3.4	43.	ND	NC	379.	NC	NC
17.85	1572.	25.8	10.1	2487.	1.11	6.8	82.	ND	NC	362.	NC	NC
18.00	1504.	28.4	8.0	1977.	1.04	2.1	20.	ND	NC	346.	NC	NC
18.15	1472.	29.7	9.7	2380.	1.00	0.	0.	ND	NC	339.	NC	NC
18.30	1462.	31.7	11.1	2736.	1.02	1.3	18.	ND	NC	336.	NC	NC
18.45	1465.	32.4	9.8	2419.	1.04	2.6	30.	ND	NC	337.	NC	NC
18.60	1465.	30.4	8.9	2179.	1.02	1.2	13.	ND	NC	337.	NC	NC
18.75	1428.	28.7	9.9	2440.	1.00	0.	0.	ND	NC	328.	NC	NC
18.90	1412.	31.0	9.8	2403.	1.07	4.4	52.	ND	NC	325.	NC	NC
19.05	1448.	30.1	9.5	2343.	1.10	5.8	66.	ND	NC	333.	NC	NC
19.20	1431.	26.1	10.1	2493.	1.00	0.	0.	ND	NC	329.	NC	NC
19.35	1505.	26.0	10.3	2545.	1.06	3.9	48.	ND	NC	346.	NC	NC
19.50	1618.	28.2	9.4	2308.	1.10	6.1	69.	ND	NC	372.	NC	NC
19.65	1703.	28.2	9.4	2305.	1.02	1.4	15.	ND	NC	392.	NC	NC
19.80	1745.	25.2	9.2	2271.	1.00	0.	0.	ND	NC	401.	NC	NC
19.95	1542.	31.3	9.2	2264.	1.03	1.6	17.	ND	NC	355.	NC	NC
20.10	1509.	35.0	8.8	2175.	1.02	1.0	10.	ND	NC	345.	NC	NC
20.25	1477.	33.1	6.9	1709.	1.00	0.	0.	ND	NC	340.	NC	NC
20.40	1451.	31.1	8.5	2082.	1.00	0.	0.	ND	NC	334.	NC	NC
20.55	1431.	32.6	10.0	2468.	1.02	1.1	13.	ND	NC	329.	NC	NC
20.70	1455.	32.3	9.0	2224.	1.06	3.4	37.	ND	NC	335.	NC	NC
20.85	1385.	27.5	9.1	2246.	1.00	0.	0.	ND	NC	319.	NC	NC
21.00	1374.	25.3	9.3	2297.	1.00	0.	0.	ND	NC	316.	NC	NC
21.15	1437.	28.5	8.3	2046.	1.00	0.	0.	ND	NC	330.	NC	NC
21.30	1545.	26.8	7.3	1788.	1.00	0.	0.	ND	NC	355.	NC	NC
21.45	1618.	26.3	8.3	2046.	1.00	0.	0.	ND	NC	372.	NC	NC
21.60	1698.	27.5	8.0	1961.	1.01	0.7	6.	ND	NC	391.	NC	NC
21.75	1759.	25.6	10.1	2483.	1.02	1.4	17.	ND	NC	405.	NC	NC
21.90	1569.	27.8	8.0	1957.	1.02	1.2	11.	ND	NC	361.	NC	NC
22.05	1489.	31.9	9.8	2406.	1.07	4.4	51.	ND	NC	342.	NC	NC
22.20	1449.	32.5	6.7	1650.	1.02	1.5	12.	ND	NC	333.	NC	NC
22.35	1449.	32.7	9.7	2376.	1.01	0.3	4.	ND	NC	333.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1454.	33.1	7.4	1819.	1.00	0.	0.	ND	NC	334.	NC	NC
22.65	1450.	31.1	6.5	1604.	1.00	0.	0.	ND	NC	334.	NC	NC
22.80	1407.	29.1	8.2	2005.	1.00	0.	0.	ND	NC	324.	NC	NC
22.95	1399.	27.1	7.9	1941.	1.06	3.6	34.	ND	NC	322.	NC	NC
23.10	1413.	24.4	9.7	2381.	1.16	9.8	113.	ND	NC	325.	NC	NC
23.25	1496.	25.1	9.5	2341.	1.17	10.0	114.	ND	NC	344.	NC	NC
23.40	1576.	27.1	7.1	1743.	1.00	0.	0.	ND	NC	363.	NC	NC
23.55	1766.	26.1	8.5	2086.	1.00	0.	0.	ND	NC	406.	NC	NC
23.70	1670.	27.2	8.3	2030.	1.00	0.	0.	ND	NC	384.	NC	NC
23.85	1588.	30.8	9.3	2299.	1.00	0.	0.	ND	NC	365.	NC	NC
24.00	1530.	32.2	9.9	2443.	1.09	5.7	67.	ND	NC	352.	NC	NC
24.15	1481.	30.7	9.5	2332.	1.11	6.5	74.	ND	NC	341.	NC	NC
24.30	1467.	30.2	9.9	2438.	1.14	8.2	97.	ND	NC	337.	NC	NC
24.45	1478.	31.5	10.3	2529.	1.15	8.9	109.	ND	NC	340.	NC	NC
24.60	1457.	30.0	9.4	2305.	1.10	6.1	68.	ND	NC	335.	NC	NC
24.75	1434.	27.7	10.6	2608.	1.08	4.9	62.	ND	NC	330.	NC	NC
24.90	1455.	27.2	10.4	2549.	1.16	9.5	118.	ND	NC	335.	NC	NC
25.05	1472.	27.4	10.7	2638.	1.12	7.5	96.	ND	NC	339.	NC	NC
25.20	1510.	27.1	10.9	2678.	1.11	6.7	87.	ND	NC	347.	NC	NC
25.35	1568.	26.9	10.8	2648.	1.12	7.2	92.	ND	NC	361.	NC	NC
25.50	1692.	28.5	10.7	2636.	1.10	6.0	77.	ND	NC	389.	NC	NC
25.65	1758.	29.6	10.7	2636.	1.08	4.8	61.	ND	NC	404.	NC	NC
25.80	1627.	31.1	10.7	2623.	1.08	4.7	60.	ND	NC	374.	NC	NC
25.95	1512.	32.2	10.5	2594.	1.10	5.8	74.	ND	NC	348.	NC	NC
26.10	1514.	33.5	10.4	2562.	1.15	9.0	111.	ND	NC	348.	NC	NC
26.25	1499.	33.2	10.3	2527.	1.08	4.6	56.	ND	NC	345.	NC	NC
26.40	1466.	32.5	10.2	2515.	1.06	3.9	47.	ND	NC	337.	NC	NC
26.55	1464.	31.8	10.1	2479.	1.10	6.2	74.	ND	NC	337.	NC	NC
26.70	1472.	31.9	10.4	2567.	1.07	4.1	52.	ND	NC	339.	NC	NC
26.85	1461.	30.8	10.4	2566.	1.07	4.3	53.	ND	NC	336.	NC	NC
27.00	1482.	29.3	10.3	2524.	1.07	4.5	55.	ND	NC	341.	NC	NC
27.15	1527.	30.4	10.3	2536.	1.08	4.7	58.	ND	NC	351.	NC	NC
27.30	1582.	30.8	10.5	2592.	1.08	4.9	62.	ND	NC	364.	NC	NC
27.45	1692.	30.2	10.5	2592.	1.08	5.1	64.	ND	NC	389.	NC	NC
27.60	1718.	31.2	10.4	2556.	1.08	4.6	58.	ND	NC	395.	NC	NC
27.75	1591.	32.6	10.5	2572.	1.07	4.1	51.	ND	NC	366.	NC	NC
27.90	1516.	33.5	10.4	2554.	1.07	4.2	53.	ND	NC	349.	NC	NC
28.05	1496.	33.3	10.3	2537.	1.08	5.0	62.	ND	NC	344.	NC	NC
28.20	1486.	32.3	10.4	2560.	1.10	6.2	77.	ND	NC	342.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1466.	31.4	10.4	2547.	1.12	7.2	89.	ND	NC	337.	NC	NC
28.50	1455.	30.7	10.3	2525.	1.15	9.1	111.	ND	NC	335.	NC	NC
28.65	1449.	30.0	10.2	2509.	1.18	10.7	130.	ND	NC	333.	NC	NC
28.80	1432.	28.7	10.7	2620.	1.16	9.9	126.	ND	NC	329.	NC	NC
28.95	1451.	28.1	10.1	2496.	1.08	5.0	61.	ND	NC	334.	NC	NC
29.10	1511.	27.7	10.5	2582.	1.16	9.6	120.	ND	NC	347.	NC	NC
29.25	1563.	27.0	10.5	2575.	1.17	10.5	131.	ND	NC	360.	NC	NC
29.40	1613.	27.5	10.6	2603.	1.16	9.5	119.	ND	NC	371.	NC	NC
29.55	1747.	28.0	10.8	2646.	1.13	8.1	104.	ND	NC	402.	NC	NC
29.70	1642.	29.7	10.9	2669.	1.17	10.3	133.	ND	NC	378.	NC	NC
29.85	1475.	31.2	11.0	2694.	1.16	9.8	128.	ND	NC	339.	NC	NC
30.00	1484.	33.0	10.9	2686.	1.17	10.3	135.	ND	NC	341.	NC	NC
30.15	1489.	30.8	11.1	2726.	1.17	10.5	139.	ND	NC	342.	NC	NC
30.30	1440.	29.4	10.9	2669.	1.17	10.2	132.	ND	NC	331.	NC	NC
30.45	1442.	30.6	10.7	2630.	1.18	10.9	139.	ND	NC	332.	NC	NC
30.60	1438.	30.6	10.9	2693.	1.21	12.5	163.	ND	NC	331.	NC	NC
30.75	1429.	28.2	11.2	2766.	1.18	10.9	146.	ND	NC	329.	NC	NC
30.90	1434.	26.9	10.8	2661.	1.19	11.3	147.	ND	NC	330.	NC	NC
31.05	1506.	29.8	10.7	2630.	1.20	11.9	151.	ND	NC	346.	NC	NC
31.20	1601.	30.3	11.2	2760.	1.10	5.9	79.	ND	NC	368.	NC	NC
31.35	1667.	26.7	11.2	2751.	1.05	3.0	40.	ND	NC	383.	NC	NC
31.50	1652.	30.6	10.8	2665.	1.11	7.0	90.	ND	NC	380.	NC	NC
31.65	1634.	32.3	10.9	2675.	1.07	4.0	52.	ND	NC	376.	NC	NC
31.80	1585.	33.3	10.8	2652.	1.04	2.2	28.	ND	NC	365.	NC	NC
31.95	1509.	32.8	10.9	2691.	1.07	4.1	53.	ND	NC	347.	NC	NC
32.10	1454.	31.3	10.9	2679.	1.05	3.3	43.	ND	NC	334.	NC	NC
32.25	1492.	32.9	11.0	2711.	1.12	7.1	94.	ND	NC	343.	NC	NC
32.40	1452.	30.8	11.0	2715.	1.10	6.1	80.	ND	NC	334.	NC	NC
32.55	1427.	28.8	10.6	2604.	1.10	6.0	75.	ND	NC	328.	NC	NC
32.70	1423.	28.6	10.3	2539.	1.12	7.2	88.	ND	NC	327.	NC	NC
32.85	1469.	31.4	10.9	2681.	1.12	7.0	91.	ND	NC	338.	NC	NC
33.00	1497.	28.4	10.9	2690.	1.10	5.9	77.	ND	NC	344.	NC	NC
33.15	1533.	29.0	10.5	2570.	1.10	5.9	74.	ND	NC	353.	NC	NC
33.30	1603.	30.8	10.9	2690.	1.10	6.0	78.	ND	NC	369.	NC	NC
33.45	1723.	30.3	11.0	2694.	1.09	5.5	72.	ND	NC	396.	NC	NC
33.60	1662.	29.5	10.7	2622.	1.08	4.8	61.	ND	NC	382.	NC	NC
33.75	1504.	31.4	10.6	2613.	1.06	3.9	50.	ND	NC	346.	NC	NC
33.90	1521.	32.6	10.7	2635.	1.07	4.2	54.	ND	NC	350.	NC	NC
34.05	1501.	32.8	11.0	2693.	1.08	4.6	61.	ND	NC	345.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1472.	29.9	10.7	2621.	1.07	4.3	55.	ND	NC	339.	NC	NC
34.35	1463.	30.4	10.2	2513.	1.07	4.1	49.	ND	NC	336.	NC	NC
34.50	1466.	31.4	10.5	2588.	1.07	4.2	53.	ND	NC	337.	NC	NC
34.65	1454.	29.9	10.7	2636.	1.08	5.1	66.	ND	NC	334.	NC	NC
34.80	1451.	29.5	10.4	2551.	1.09	5.4	67.	ND	NC	334.	NC	NC
34.95	1494.	30.2	10.6	2610.	1.12	7.0	89.	ND	NC	344.	NC	NC
35.10	1554.	30.1	10.8	2660.	1.13	8.3	103.	ND	NC	357.	NC	NC
35.25	1607.	29.4	10.9	2693.	1.13	8.0	104.	ND	NC	370.	NC	NC
35.40	1722.	29.9	11.0	2705.	1.13	7.7	101.	ND	NC	396.	NC	NC
35.55	1685.	32.0	10.9	2689.	1.13	7.8	102.	ND	NC	388.	NC	NC
35.70	1531.	33.2	11.0	2708.	1.13	7.7	101.	ND	NC	352.	NC	NC
35.85	1490.	32.4	11.0	2698.	1.12	7.1	93.	ND	NC	343.	NC	NC
36.00	1475.	32.1	11.0	2698.	1.11	6.5	86.	ND	NC	339.	NC	NC
36.15	1478.	32.1	11.0	2699.	1.14	8.7	114.	ND	NC	340.	NC	NC
36.30	1461.	30.4	11.2	2748.	1.19	11.4	152.	ND	NC	336.	NC	NC
36.45	1418.	28.5	11.0	2700.	1.15	8.9	116.	ND	NC	326.	NC	NC
36.60	1406.	30.3	10.5	2585.	1.17	10.3	130.	ND	NC	323.	NC	NC
36.75	1425.	30.7	11.2	2743.	1.23	13.7	182.	ND	NC	328.	NC	NC
36.90	1474.	28.5	11.2	2759.	1.24	14.7	197.	ND	NC	339.	NC	NC
37.05	1544.	29.4	11.1	2725.	1.21	12.5	166.	ND	NC	355.	NC	NC
37.20	1628.	30.8	11.1	2727.	1.23	14.0	185.	ND	NC	374.	NC	NC
37.35	1721.	31.0	11.2	2759.	1.23	13.9	186.	ND	NC	396.	NC	NC
37.50	1605.	30.6	11.3	2776.	1.20	11.9	161.	ND	NC	369.	NC	NC
37.65	1517.	32.0	11.1	2732.	1.15	9.3	124.	ND	NC	349.	NC	NC
37.80	1491.	32.6	11.1	2729.	1.14	8.7	116.	ND	NC	343.	NC	NC
37.95	1478.	31.3	11.1	2729.	1.17	10.3	136.	ND	NC	340.	NC	NC
38.10	1473.	30.9	11.0	2700.	1.18	10.7	141.	ND	NC	339.	NC	NC
38.25	1454.	30.1	10.8	2666.	1.17	10.3	133.	ND	NC	334.	NC	NC
38.40	1428.	29.7	10.9	2687.	1.17	10.3	135.	ND	NC	328.	NC	NC
38.55	1417.	30.6	10.9	2681.	1.20	11.9	154.	ND	NC	326.	NC	NC
38.70	1455.	30.9	11.1	2742.	1.23	13.7	183.	ND	NC	335.	NC	NC
38.85	1486.	31.0	11.2	2746.	1.18	10.8	144.	ND	NC	342.	NC	NC
39.00	1554.	31.4	10.9	2690.	1.17	10.3	135.	ND	NC	357.	NC	NC
39.15	1696.	31.6	11.0	2693.	1.20	11.9	156.	ND	NC	390.	NC	NC
39.30	1753.	31.8	11.1	2728.	1.17	10.2	135.	ND	NC	403.	NC	NC
39.45	1728.	31.8	11.1	2740.	1.13	7.6	101.	ND	NC	397.	NC	NC
39.60	1575.	33.6	11.0	2700.	1.12	7.0	92.	ND	NC	362.	NC	NC
39.75	1488.	32.3	10.9	2683.	1.13	7.8	102.	ND	NC	342.	NC	NC
39.90	1475.	32.4	10.9	2680.	1.12	7.1	93.	ND	NC	339.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1468.	32.7	10.6	2613.	1.09	5.5	69.	ND	NC	338.	NC	NC
40.20	1472.	32.7	10.4	2561.	1.09	5.6	70.	ND	NC	339.	NC	NC
40.35	1450.	32.5	10.5	2594.	1.12	7.0	89.	ND	NC	334.	NC	NC
40.50	1420.	32.0	10.4	2550.	1.11	6.6	84.	ND	NC	327.	NC	NC
40.65	1431.	32.6	10.1	2496.	1.11	6.9	84.	ND	NC	329.	NC	NC
40.80	1491.	32.6	10.2	2502.	1.12	7.1	86.	ND	NC	343.	NC	NC
40.95	1566.	31.8	10.7	2641.	1.12	7.1	91.	ND	NC	360.	NC	NC
41.10	1625.	32.6	10.6	2600.	1.11	6.6	84.	ND	NC	374.	NC	NC
41.25	1699.	32.8	10.7	2641.	1.11	6.4	83.	ND	NC	391.	NC	NC
41.40	1691.	32.9	11.0	2717.	1.11	6.6	86.	ND	NC	389.	NC	NC
41.55	1532.	32.7	10.9	2679.	1.09	5.7	75.	ND	NC	352.	NC	NC
41.70	1497.	32.3	10.7	2630.	1.08	4.9	63.	ND	NC	344.	NC	NC
41.85	1493.	32.6	10.8	2659.	1.08	4.7	60.	ND	NC	343.	NC	NC
42.00	1491.	32.6	10.9	2671.	1.09	5.3	69.	ND	NC	343.	NC	NC
42.15	1480.	32.4	10.8	2655.	1.10	5.8	75.	ND	NC	340.	NC	NC
42.30	1456.	31.2	10.7	2633.	1.08	5.0	64.	ND	NC	335.	NC	NC
42.45	1433.	30.7	10.9	2669.	1.07	4.2	54.	ND	NC	330.	NC	NC
42.60	1407.	30.3	11.2	2759.	1.06	3.7	50.	ND	NC	324.	NC	NC
42.75	1452.	30.2	10.9	2673.	1.06	3.5	46.	ND	NC	334.	NC	NC
42.90	1534.	29.0	10.6	2617.	1.06	3.8	48.	ND	NC	353.	NC	NC
43.05	1661.	25.9	10.8	2656.	1.06	3.9	50.	ND	NC	382.	NC	NC
43.20	1603.	24.1	10.2	2516.	1.07	4.5	55.	ND	NC	369.	NC	NC
43.35	1588.	25.1	9.4	2301.	1.08	4.9	55.	ND	NC	365.	NC	NC
43.50	1630.	30.9	8.4	2069.	1.04	2.3	23.	ND	NC	375.	NC	NC
43.65	1489.	31.8	9.2	2253.	1.00	0.	0.	ND	NC	343.	NC	NC
43.80	1471.	29.6	8.6	2120.	1.00	0.	0.	ND	NC	338.	NC	NC
43.95	1423.	33.2	10.3	2525.	1.02	0.9	11.	ND	NC	327.	NC	NC
44.10	1469.	34.5	8.9	2194.	1.05	3.0	32.	ND	NC	338.	NC	NC
44.25	1450.	29.3	9.4	2302.	1.01	0.3	4.	ND	NC	334.	NC	NC
44.40	1378.	26.4	9.6	2353.	1.02	1.5	17.	ND	NC	317.	NC	NC
44.55	1388.	25.5	10.8	2654.	1.17	10.3	132.	ND	NC	319.	NC	NC
44.70	1412.	27.8	11.1	2725.	1.08	5.0	66.	ND	NC	325.	NC	NC
44.85	1447.	28.7	8.5	2088.	1.00	0.	0.	ND	NC	333.	NC	NC
45.00	1483.	22.8	10.0	2457.	1.00	0.	0.	ND	NC	341.	NC	NC
45.15	1519.	23.4	9.1	2235.	1.00	0.	0.	ND	NC	349.	NC	NC
45.30	1757.	28.7	5.4	1328.	1.00	0.	0.	ND	NC	404.	NC	NC
45.45	1597.	30.2	7.0	1720.	1.00	0.	0.	ND	NC	367.	NC	NC
45.60	1485.	28.9	8.2	2013.	1.00	0.	0.	ND	NC	341.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 26 78
RUN NUMBER- 35
SEGMENT NUMBER- 2
WATER DEPTH- 12 TO 14 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1516.	29.5	7.9	1941.	1.00	0.	0.	ND	NC	349.	NC	NC
0.15	1465.	27.1	9.2	2262.	1.00	0.	0.	ND	NC	337.	NC	NC
0.30	1485.	31.1	10.7	2622.	1.00	0.	0.	ND	NC	341.	NC	NC
0.45	1451.	29.0	8.4	2055.	1.00	0.	0.	ND	NC	334.	NC	NC
0.60	1399.	25.5	7.8	1927.	1.02	1.2	11.	ND	NC	322.	NC	NC
0.75	1394.	24.9	9.6	2371.	1.17	10.1	116.	ND	NC	321.	NC	NC
0.90	1377.	30.2	8.4	2058.	1.02	1.4	14.	ND	NC	317.	NC	NC
1.05	1367.	27.8	9.1	2245.	1.00	0.	0.	ND	NC	314.	NC	NC
1.20	1402.	25.8	11.1	2735.	1.04	2.6	35.	ND	NC	322.	NC	NC
1.35	1466.	27.7	11.4	2803.	1.15	9.3	127.	ND	NC	337.	NC	NC
1.50	1568.	28.0	9.5	2341.	1.06	3.5	40.	ND	NC	361.	NC	NC
1.65	1747.	25.4	9.3	2288.	1.00	0.	0.	ND	NC	402.	NC	NC
1.80	1588.	23.9	10.4	2548.	1.00	0.	0.	ND	NC	365.	NC	NC
1.95	1482.	26.7	7.4	1827.	1.01	0.4	4.	ND	NC	341.	NC	NC
2.10	1528.	31.5	6.8	1664.	1.00	0.	0.	ND	NC	351.	NC	NC
2.25	1504.	29.0	8.0	1958.	1.00	0.	0.	ND	NC	346.	NC	NC
2.40	1416.	22.6	7.8	1930.	1.05	2.9	28.	ND	NC	326.	NC	NC
2.55	1443.	30.5	7.2	1761.	1.02	1.1	9.	ND	NC	332.	NC	NC
2.70	1453.	32.0	6.7	1652.	1.00	0.	0.	ND	NC	334.	NC	NC
2.85	1359.	21.2	9.3	2279.	1.03	2.0	22.	ND	NC	313.	NC	NC
3.00	1358.	26.9	9.1	2226.	1.06	3.4	37.	ND	NC	312.	NC	NC
3.15	1376.	31.0	6.9	1691.	1.00	0.	0.	ND	NC	317.	NC	NC
3.30	1398.	25.7	9.6	2372.	1.00	0.	0.	ND	NC	321.	NC	NC
3.45	1403.	21.2	11.1	2719.	1.00	0.	0.	ND	NC	323.	NC	NC
3.60	1546.	25.5	7.0	1714.	1.00	0.	0.	ND	NC	356.	NC	NC
3.75	1683.	30.1	7.1	1742.	1.00	0.	0.	ND	NC	387.	NC	NC
3.90	1633.	27.9	10.1	2488.	1.00	0.	0.	ND	NC	376.	NC	NC
4.05	1411.	22.8	9.2	2252.	1.00	0.	0.	ND	NC	325.	NC	NC
4.20	1475.	29.7	7.1	1735.	1.00	0.	0.	ND	NC	339.	NC	NC
4.35	1463.	31.4	9.1	2233.	1.00	0.	0.	ND	NC	337.	NC	NC
4.50	1389.	26.5	8.6	2121.	1.00	0.	0.	ND	NC	319.	NC	NC
4.65	1385.	24.8	8.3	2047.	1.09	5.4	53.	ND	NC	318.	NC	NC
4.80	1401.	30.2	6.9	1701.	1.00	0.	0.	ND	NC	322.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1393.	28.7	9.2	2272.	1.00	0.	0.	ND	NC	320.	NC	NC
5.10	1390.	26.5	10.7	2628.	1.00	0.	0.	ND	NC	320.	NC	NC
5.25	1456.	28.5	11.1	2733.	1.11	6.4	85.	ND	NC	335.	NC	NC
5.40	1495.	29.2	12.3	3022.	1.16	9.5	140.	ND	NC	344.	NC	NC
5.55	1561.	28.2	12.2	3004.	1.06	3.7	53.	ND	NC	359.	NC	NC
5.70	1625.	28.2	10.9	2681.	1.09	5.4	70.	ND	NC	374.	NC	NC
5.85	1518.	27.4	11.0	2714.	1.12	7.4	97.	ND	NC	349.	NC	NC
6.00	1446.	27.3	11.3	2779.	1.11	6.8	92.	ND	NC	332.	NC	NC
6.15	1450.	27.3	11.4	2808.	1.06	3.6	49.	ND	NC	334.	NC	NC
6.30	1438.	27.6	11.3	2789.	1.04	2.4	33.	ND	NC	331.	NC	NC
6.45	1440.	28.6	10.9	2679.	1.05	3.0	39.	ND	NC	331.	NC	NC
6.60	1434.	29.4	10.9	2671.	1.05	3.3	42.	ND	NC	330.	NC	NC
6.75	1408.	27.0	10.6	2602.	1.07	4.1	51.	ND	NC	324.	NC	NC
6.90	1397.	27.1	10.2	2497.	1.15	8.9	108.	ND	NC	321.	NC	NC
7.05	1409.	30.7	10.9	2673.	1.14	8.7	112.	ND	NC	324.	NC	NC
7.20	1445.	30.2	11.1	2725.	1.09	5.3	70.	ND	NC	332.	NC	NC
7.35	1506.	29.9	10.9	2673.	1.08	4.9	63.	ND	NC	346.	NC	NC
7.50	1599.	30.1	10.9	2692.	1.09	5.6	74.	ND	NC	368.	NC	NC
7.65	1674.	30.3	11.2	2745.	1.06	3.6	47.	ND	NC	385.	NC	NC
7.80	1660.	30.5	11.3	2782.	1.05	2.9	39.	ND	NC	382.	NC	NC
7.95	1554.	31.1	11.4	2794.	1.06	3.6	49.	ND	NC	357.	NC	NC
8.10	1497.	31.3	11.1	2729.	1.06	3.8	50.	ND	NC	344.	NC	NC
8.25	1477.	30.1	11.2	2750.	1.03	1.7	22.	ND	NC	340.	NC	NC
8.40	1451.	30.3	11.0	2717.	1.03	1.7	23.	ND	NC	334.	NC	NC
8.55	1456.	30.9	11.0	2709.	1.04	2.4	31.	ND	NC	335.	NC	NC
8.70	1439.	30.5	11.1	2740.	1.07	4.0	53.	ND	NC	331.	NC	NC
8.85	1415.	30.9	11.4	2798.	1.03	1.9	26.	ND	NC	326.	NC	NC
9.00	1407.	29.9	11.3	2768.	1.04	2.4	32.	ND	NC	324.	NC	NC
9.15	1444.	30.0	11.1	2740.	1.07	4.1	55.	ND	NC	332.	NC	NC
9.30	1505.	29.8	11.2	2754.	1.04	2.4	33.	ND	NC	346.	NC	NC
9.45	1526.	29.9	11.2	2762.	1.04	2.4	32.	ND	NC	351.	NC	NC
9.60	1629.	29.6	11.2	2761.	1.05	3.2	43.	ND	NC	375.	NC	NC
9.75	1602.	29.6	10.9	2691.	1.04	2.7	36.	ND	NC	368.	NC	NC
9.90	1525.	29.8	11.3	2787.	1.03	1.7	24.	ND	NC	351.	NC	NC
10.05	1468.	29.8	11.3	2770.	1.03	1.9	26.	ND	NC	338.	NC	NC
10.20	1466.	29.4	11.0	2711.	1.03	2.1	27.	ND	NC	337.	NC	NC
10.35	1450.	29.1	11.2	2767.	1.03	2.0	27.	ND	NC	333.	NC	NC
10.50	1429.	29.4	11.4	2803.	1.03	1.6	22.	ND	NC	329.	NC	NC
10.65	1423.	29.6	11.3	2791.	1.03	1.8	24.	ND	NC	327.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1417.	29.3	11.4	2804.	1.05	3.2	44.	ND	NC	326.	NC	NC
10.95	1405.	28.8	11.6	2849.	1.06	3.4	48.	ND	NC	323.	NC	NC
11.10	1450.	29.1	11.4	2809.	1.05	3.2	43.	ND	NC	334.	NC	NC
11.25	1503.	29.4	11.2	2742.	1.09	5.2	69.	ND	NC	346.	NC	NC
11.40	1568.	29.3	11.1	2719.	1.11	6.7	88.	ND	NC	361.	NC	NC
11.55	1618.	28.5	11.2	2756.	1.07	4.2	56.	ND	NC	372.	NC	NC
11.70	1611.	28.5	11.0	2702.	1.08	5.0	66.	ND	NC	371.	NC	NC
11.85	1534.	28.8	10.8	2666.	1.10	6.0	78.	ND	NC	353.	NC	NC
12.00	1426.	26.7	10.9	2675.	1.09	5.7	75.	ND	NC	328.	NC	NC
12.15	1429.	27.4	11.0	2703.	1.06	3.8	50.	ND	NC	329.	NC	NC
12.30	1446.	28.6	11.3	2768.	1.06	3.8	51.	ND	NC	333.	NC	NC
12.45	1417.	28.2	11.0	2716.	1.07	4.1	54.	ND	NC	326.	NC	NC
12.60	1401.	27.8	11.1	2727.	1.05	2.8	37.	ND	NC	322.	NC	NC
12.75	1402.	27.7	11.1	2718.	1.05	3.2	42.	ND	NC	323.	NC	NC
12.90	1415.	28.4	11.3	2775.	1.12	7.4	99.	ND	NC	325.	NC	NC
13.05	1446.	28.6	11.3	2769.	1.17	10.5	141.	ND	NC	333.	NC	NC
13.20	1483.	28.5	11.1	2722.	1.11	6.9	91.	ND	NC	341.	NC	NC
13.35	1521.	28.7	11.0	2712.	1.13	7.7	102.	ND	NC	350.	NC	NC
13.50	1624.	29.2	11.1	2719.	1.18	11.2	147.	ND	NC	374.	NC	NC
13.65	1651.	28.7	11.0	2698.	1.14	8.2	108.	ND	NC	380.	NC	NC
13.80	1525.	28.6	10.8	2646.	1.11	6.7	86.	ND	NC	351.	NC	NC
13.95	1485.	29.7	10.8	2650.	1.10	6.4	82.	ND	NC	342.	NC	NC
14.10	1482.	30.3	11.0	2710.	1.13	8.0	105.	ND	NC	341.	NC	NC
14.25	1479.	29.9	10.8	2646.	1.13	7.9	101.	ND	NC	349.	NC	NC
14.40	1450.	28.4	10.9	2677.	1.08	4.7	61.	ND	NC	333.	NC	NC
14.55	1445.	29.3	11.0	2704.	1.12	7.5	99.	ND	NC	332.	NC	NC
14.70	1434.	30.4	11.0	2699.	1.15	8.9	117.	ND	NC	330.	NC	NC
14.85	1390.	29.0	11.0	2700.	1.10	6.3	83.	ND	NC	320.	NC	NC
15.00	1417.	29.0	11.0	2698.	1.14	8.5	111.	ND	NC	326.	NC	NC
15.15	1506.	30.0	11.0	2717.	1.17	10.3	135.	ND	NC	346.	NC	NC
15.30	1563.	29.2	11.2	2751.	1.13	8.1	108.	ND	NC	360.	NC	NC
15.45	1614.	28.5	10.9	2688.	1.10	6.1	80.	ND	NC	371.	NC	NC
15.60	1689.	29.6	11.1	2725.	1.14	8.8	116.	ND	NC	389.	NC	NC
15.75	1544.	30.8	11.3	2787.	1.16	9.6	130.	ND	NC	355.	NC	NC
15.90	1473.	30.3	11.1	2728.	1.13	7.6	101.	ND	NC	339.	NC	NC
16.05	1459.	28.4	10.9	2678.	1.09	5.5	72.	ND	NC	336.	NC	NC
16.20	1472.	30.0	11.1	2731.	1.10	6.3	83.	ND	NC	339.	NC	NC
16.35	1464.	30.8	10.9	2692.	1.08	5.0	65.	ND	NC	337.	NC	NC
16.50	1416.	28.4	10.6	2619.	1.05	3.3	41.	ND	NC	326.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1417.	28.4	10.5	2572.	1.09	5.2	65.	ND	NC	326.	NC	NC
16.80	1409.	29.3	10.5	2588.	1.16	9.7	122.	ND	NC	324.	NC	NC
16.95	1410.	29.3	10.8	2658.	1.14	8.6	111.	ND	NC	324.	NC	NC
17.10	1479.	26.9	10.3	2532.	1.10	6.3	77.	ND	NC	340.	NC	NC
17.25	1523.	28.6	10.6	2597.	1.16	9.5	120.	ND	NC	350.	NC	NC
17.40	1605.	30.2	11.1	2741.	1.17	10.5	140.	ND	NC	369.	NC	NC
17.55	1685.	27.2	11.4	2807.	1.14	8.8	119.	ND	NC	387.	NC	NC
17.70	1574.	27.4	10.6	2604.	1.09	5.3	67.	ND	NC	362.	NC	NC
17.85	1496.	30.8	10.8	2659.	1.13	7.7	99.	ND	NC	344.	NC	NC
18.00	1470.	30.9	11.2	2763.	1.14	8.4	112.	ND	NC	338.	NC	NC
18.15	1435.	28.8	10.8	2652.	1.12	7.0	90.	ND	NC	330.	NC	NC
18.30	1438.	27.3	10.5	2577.	1.09	5.6	70.	ND	NC	331.	NC	NC
18.45	1437.	29.6	11.2	2750.	1.18	10.8	145.	ND	NC	330.	NC	NC
18.60	1406.	26.8	10.7	2623.	1.15	9.4	119.	ND	NC	323.	NC	NC
18.75	1388.	24.7	10.0	2471.	1.12	7.6	91.	ND	NC	319.	NC	NC
18.90	1403.	28.6	10.0	2469.	1.20	11.9	143.	ND	NC	323.	NC	NC
19.05	1475.	29.3	11.0	2700.	1.07	4.5	59.	ND	NC	339.	NC	NC
19.20	1538.	28.9	11.0	2702.	1.10	6.0	78.	ND	NC	354.	NC	NC
19.35	1562.	28.8	10.9	2682.	1.16	9.7	127.	ND	NC	359.	NC	NC
19.50	1666.	29.7	11.0	2701.	1.16	9.5	124.	ND	NC	383.	NC	NC
19.65	1573.	31.6	11.2	2757.	1.17	10.6	142.	ND	NC	362.	NC	NC
19.80	1494.	30.9	11.0	2699.	1.14	8.7	113.	ND	NC	344.	NC	NC
19.95	1472.	30.5	11.0	2699.	1.09	5.5	71.	ND	NC	339.	NC	NC
20.10	1477.	32.2	11.2	2757.	1.12	7.0	94.	ND	NC	342.	NC	NC
20.25	1483.	31.6	11.4	2793.	1.16	9.7	132.	ND	NC	341.	NC	NC
20.40	1448.	29.7	11.2	2746.	1.12	7.1	95.	ND	NC	333.	NC	NC
20.55	1432.	30.1	10.7	2637.	1.11	6.7	86.	ND	NC	329.	NC	NC
20.70	1428.	31.0	10.7	2638.	1.13	8.1	104.	ND	NC	328.	NC	NC
20.85	1430.	31.2	11.0	2701.	1.21	12.9	169.	ND	NC	329.	NC	NC
21.00	1463.	29.4	11.0	2714.	1.13	8.1	106.	ND	NC	337.	NC	NC
21.15	1458.	26.1	10.2	2520.	1.15	9.2	113.	ND	NC	335.	NC	NC
21.30	1544.	26.6	9.9	2429.	1.17	10.5	124.	ND	NC	355.	NC	NC
21.45	1677.	30.6	10.6	2596.	1.16	9.5	119.	ND	NC	386.	NC	NC
21.60	1702.	30.3	11.1	2734.	1.13	7.7	102.	ND	NC	391.	NC	NC
21.75	1536.	29.6	10.7	2630.	1.06	3.7	47.	ND	NC	353.	NC	NC
21.90	1482.	31.0	11.1	2720.	1.10	5.9	78.	ND	NC	341.	NC	NC
22.05	1479.	30.5	10.5	2573.	1.14	8.6	108.	ND	NC	340.	NC	NC
22.20	1459.	29.9	10.1	2479.	1.08	4.9	59.	ND	NC	336.	NC	NC
22.35	1451.	30.2	10.2	2496.	1.17	10.5	128.	ND	NC	334.	NC	NC

RUN NUMBER- 35
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1429.	30.1	10.2	2509.	1.28	17.2	209.	ND	NC	329.	NC	NC
22.65	1446.	29.2	10.1	2483.	1.13	7.7	92.	ND	NC	333.	NC	NC
22.80	1461.	29.0	9.8	2419.	1.14	8.6	101.	ND	NC	336.	NC	NC
22.95	1387.	27.5	9.6	2364.	1.22	13.5	155.	ND	NC	319.	NC	NC
23.10	1494.	26.7	10.7	2625.	1.17	10.4	132.	ND	NC	344.	NC	NC
23.25	1548.	27.2	10.8	2657.	1.10	6.3	81.	ND	NC	356.	NC	NC
23.40	1616.	28.9	10.6	2610.	1.09	5.2	66.	ND	NC	372.	NC	NC
23.55	1655.	30.8	10.7	2627.	1.09	5.6	72.	ND	NC	381.	NC	NC
23.70	1580.	30.5	10.5	2588.	1.07	4.0	51.	ND	NC	363.	NC	NC
23.85	1494.	29.2	10.5	2582.	1.07	4.1	51.	ND	NC	344.	NC	NC
24.00	1496.	31.3	10.5	2590.	1.11	6.8	85.	ND	NC	343.	NC	NC
24.15	1470.	31.3	10.6	2604.	1.24	14.8	187.	ND	NC	338.	NC	NC
24.30	1441.	29.6	10.6	2619.	1.12	7.3	93.	ND	NC	331.	NC	NC
24.45	1423.	27.4	10.5	2581.	1.14	8.3	104.	ND	NC	327.	NC	NC
24.60	1426.	28.9	10.2	2501.	1.19	11.8	143.	ND	NC	328.	NC	NC
24.75	1411.	29.2	10.8	2655.	1.28	17.2	222.	ND	NC	325.	NC	NC
24.90	1407.	27.5	10.5	2588.	1.10	6.1	77.	ND	NC	324.	NC	NC
25.05	1417.	25.6	10.1	2477.	1.13	8.0	96.	ND	NC	326.	NC	NC
25.20	1588.	28.0	10.1	2475.	1.27	16.1	193.	ND	NC	365.	NC	NC
25.35	1648.	30.0	10.0	2471.	1.05	2.9	35.	ND	NC	379.	NC	NC
25.50	1699.	30.5	10.3	2538.	1.00	0.	0.	ND	NC	391.	NC	NC
25.65	1665.	30.8	11.1	2734.	1.04	2.6	35.	ND	NC	383.	NC	NC
25.80	1492.	31.1	11.3	2785.	1.12	7.0	94.	ND	NC	343.	NC	NC
25.95	1482.	30.6	10.9	2689.	1.10	5.8	75.	ND	NC	341.	NC	NC
26.10	1479.	31.1	10.9	2669.	1.06	3.5	45.	ND	NC	340.	NC	NC
26.25	1479.	31.2	11.0	2704.	1.10	6.3	83.	ND	NC	340.	NC	NC
26.40	1480.	30.7	11.1	2724.	1.16	9.9	131.	ND	NC	340.	NC	NC
26.55	1422.	30.5	10.9	2675.	1.08	4.6	60.	ND	NC	327.	NC	NC
26.70	1404.	30.7	10.9	2671.	1.09	5.5	71.	ND	NC	323.	NC	NC
26.85	1442.	30.9	11.2	2766.	1.14	8.3	111.	ND	NC	332.	NC	NC
27.00	1491.	30.5	11.4	2792.	1.14	8.8	119.	ND	NC	343.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 26 78
RUN NUMBER- 36
SEGMENT NUMBER- 1
WATER DEPTH- 18 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2%
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1495.	ND	18.6	4580.	1.00	0.	0.	ND	NC	344.	NC	NC
0.15	1422.	ND	12.4	3055.	1.00	0.	0.	ND	NC	327.	NC	NC
0.30	1581.	ND	6.5	1589.	1.01	0.3	3.	ND	NC	364.	NC	NC
0.45	1624.	ND	8.2	2009.	1.01	0.4	4.	ND	NC	374.	NC	NC
0.60	1501.	ND	8.1	1994.	1.01	0.3	3.	ND	NC	345.	NC	NC
0.75	1444.	ND	10.6	2603.	1.00	0.	0.	ND	NC	332.	NC	NC
0.90	1441.	ND	11.1	2722.	1.15	9.2	122.	ND	NC	331.	NC	NC
1.05	1440.	ND	11.1	2735.	1.10	6.3	84.	ND	NC	331.	NC	NC
1.20	1415.	ND	11.0	2709.	1.11	6.9	91.	ND	NC	326.	NC	NC
1.35	1409.	ND	11.1	2727.	1.21	13.0	172.	ND	NC	324.	NC	NC
1.50	1411.	ND	11.3	2780.	1.16	9.5	128.	ND	NC	325.	NC	NC
1.65	1401.	ND	11.0	2702.	1.10	6.1	80.	ND	NC	322.	NC	NC
1.80	1373.	ND	10.1	2485.	1.17	10.2	124.	ND	NC	316.	NC	NC
1.95	1347.	ND	11.0	2709.	1.22	13.2	174.	ND	NC	310.	NC	NC
2.10	1350.	ND	11.0	2701.	1.07	4.2	55.	ND	NC	311.	NC	NC
2.25	1358.	ND	11.1	2728.	1.07	4.4	58.	ND	NC	312.	NC	NC
2.40	1375.	ND	11.2	2759.	1.21	12.5	168.	ND	NC	316.	NC	NC
2.55	1408.	ND	11.1	2737.	1.10	6.1	81.	ND	NC	324.	NC	NC
2.70	1429.	ND	10.8	2653.	1.11	6.6	85.	ND	NC	329.	NC	NC
2.85	1476.	ND	10.6	2607.	1.17	10.1	128.	ND	NC	340.	NC	NC
3.00	1505.	ND	11.0	2695.	1.17	10.1	132.	ND	NC	346.	NC	NC
3.15	1545.	ND	10.8	2647.	1.09	5.5	71.	ND	NC	355.	NC	NC
3.30	1574.	ND	10.7	2627.	1.10	6.0	77.	ND	NC	362.	NC	NC
3.45	1543.	ND	11.1	2724.	1.12	7.2	95.	ND	NC	355.	NC	NC
3.60	1494.	ND	11.1	2741.	1.10	6.1	81.	ND	NC	344.	NC	NC
3.75	1463.	ND	10.9	2676.	1.07	4.4	57.	ND	NC	336.	NC	NC
3.90	1424.	ND	10.8	2651.	1.07	4.4	57.	ND	NC	327.	NC	NC
4.05	1412.	ND	11.0	2711.	1.08	5.1	67.	ND	NC	325.	NC	NC
4.20	1414.	ND	10.9	2672.	1.08	5.0	64.	ND	NC	325.	NC	NC
4.35	1408.	ND	10.8	2644.	1.07	4.5	58.	ND	NC	324.	NC	NC
4.50	1392.	ND	11.2	2763.	1.09	5.4	72.	ND	NC	320.	NC	NC
4.65	1381.	ND	11.0	2716.	1.13	7.6	101.	ND	NC	318.	NC	NC
4.80	1372.	ND	10.8	2652.	1.08	4.6	59.	ND	NC	315.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1360.	ND	10.6	2618.	1.11	6.6	84.	ND	NC	313.	NC	NC
5.10	1349.	ND	10.7	2634.	1.15	9.3	119.	ND	NC	31[illegible].	NC	NC
5.25	1343.	ND	11.2	2747.	1.14	8.4	112.	ND	NC	3[illegible].	NC	NC
5.40	1373.	ND	10.9	2680.	1.11	6.8	89.	ND	NC	316.	NC	NC
5.55	1405.	ND	10.8	2662.	1.16	9.4	121.	ND	NC	323.	NC	NC
5.70	1428.	ND	11.3	2767.	1.16	9.8	132.	ND	NC	328.	NC	NC
5.85	1463.	ND	11.1	2728.	1.14	8.3	109.	ND	NC	336.	NC	NC
6.00	1528.	ND	10.7	2640.	1.16	9.9	127.	ND	NC	352.	NC	NC
6.15	1584.	ND	11.1	2732.	1.19	11.5	152.	ND	NC	364.	NC	NC
6.30	1584.	ND	11.4	2793.	1.14	8.4	114.	ND	NC	364.	NC	NC
6.45	1536.	ND	10.9	2684.	1.13	7.6	100.	ND	NC	353.	NC	NC
6.60	1451.	ND	10.9	2678.	1.14	8.8	114.	ND	NC	334.	NC	NC
6.75	1420.	ND	11.2	2748.	1.13	8.1	108.	ND	NC	327.	NC	NC
6.90	1425.	ND	10.9	2668.	1.11	6.5	84.	ND	NC	328.	NC	NC
7.05	1426.	ND	10.8	2644.	1.09	5.7	73.	ND	NC	328.	NC	NC
7.20	1415.	ND	11.2	2756.	1.12	7.5	101.	ND	NC	326.	NC	NC
7.35	1395.	ND	10.8	2654.	1.11	6.5	83.	ND	NC	321.	NC	NC
7.50	1385.	ND	10.9	2687.	1.07	4.4	58.	ND	NC	319.	NC	NC
7.65	1391.	ND	11.0	2713.	1.11	6.4	85.	ND	NC	320.	NC	NC
7.80	1399.	ND	11.1	2724.	1.13	8.0	106.	ND	NC	322.	NC	NC
7.95	1347.	ND	11.0	2714.	1.09	5.2	68.	ND	NC	310.	NC	NC
8.10	1341.	ND	10.9	2671.	1.12	7.5	97.	ND	NC	308.	NC	NC
8.25	1359.	ND	10.9	2674.	1.13	7.9	103.	ND	NC	312.	NC	NC
8.40	1374.	ND	11.3	2772.	1.11	6.5	88.	ND	NC	316.	NC	NC
8.55	1433.	ND	11.2	2751.	1.11	6.9	92.	ND	NC	330.	NC	NC
8.70	1456.	ND	10.8	2645.	1.15	9.3	120.	ND	NC	335.	NC	NC
8.85	1480.	ND	11.1	2718.	1.16	9.6	127.	ND	NC	340.	NC	NC
9.00	1515.	ND	11.0	2699.	1.11	6.6	87.	ND	NC	349.	NC	NC
9.15	1558.	ND	10.7	2634.	1.14	8.7	111.	ND	NC	358.	NC	NC
9.30	1586.	ND	10.9	2676.	1.15	9.3	121.	ND	NC	365.	NC	NC
9.45	1548.	ND	11.3	2782.	1.12	7.4	100.	ND	NC	356.	NC	NC
9.60	1481.	ND	10.7	2639.	1.12	7.3	93.	ND	NC	341.	NC	NC
9.75	1440.	ND	11.2	2748.	1.13	7.9	105.	ND	NC	331.	NC	NC
9.90	1422.	ND	11.5	2821.	1.14	8.6	118.	ND	NC	327.	NC	NC
10.05	1433.	ND	10.7	2641.	1.14	8.3	107.	ND	NC	330.	NC	NC
10.20	1416.	ND	10.8	2661.	1.12	7.2	94.	ND	NC	326.	NC	NC
10.35	1401.	ND	11.1	2720.	1.15	9.2	121.	ND	NC	322.	NC	NC
10.50	1393.	ND	11.0	2700.	1.16	10.0	130.	ND	NC	320.	NC	NC
10.65	1402.	ND	10.7	2640.	1.15	9.2	118.	ND	NC	322.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1374.	ND	10.8	2665.	1.19	11.6	150.	ND	NC	316.	NC	NC
10.95	1372.	ND	11.1	2723.	1.21	12.7	168.	ND	NC	316.	NC	NC
11.10	1360.	ND	11.3	2775.	1.22	13.3	179.	ND	NC	313.	NC	NC
11.25	1353.	ND	11.0	2704.	1.21	13.0	170.	ND	NC	311.	NC	NC
11.40	1366.	ND	10.8	2648.	1.25	15.0	193.	ND	NC	314.	NC	NC
11.55	1410.	ND	11.0	2716.	1.28	16.9	223.	ND	NC	324.	NC	NC
11.70	1451.	ND	10.9	2686.	1.26	16.0	209.	ND	NC	334.	NC	NC
11.85	1484.	ND	10.7	2641.	1.29	17.7	227.	ND	NC	341.	NC	NC
12.00	1539.	ND	11.0	2698.	1.31	18.9	247.	ND	NC	354.	NC	NC
12.15	1549.	ND	11.0	2712.	1.29	17.7	234.	ND	NC	356.	NC	NC
12.30	1636.	ND	11.1	2730.	1.29	17.5	232.	ND	NC	376.	NC	NC
12.45	1580.	ND	11.3	2783.	1.30	18.4	248.	ND	NC	363.	NC	NC
12.60	1490.	ND	11.1	2740.	1.28	17.1	227.	ND	NC	343.	NC	NC
12.75	1423.	ND	11.2	2749.	1.24	14.6	195.	ND	NC	327.	NC	NC
12.90	1424.	ND	11.0	2710.	1.21	12.9	170.	ND	NC	327.	NC	NC
13.05	1428.	ND	10.7	2640.	1.21	12.5	160.	ND	NC	328.	NC	NC
13.20	1423.	ND	10.6	2612.	1.28	17.2	218.	ND	NC	327.	NC	NC
13.35	1414.	ND	11.0	2710.	1.24	14.7	193.	ND	NC	325.	NC	NC
13.50	1405.	ND	10.6	2594.	1.24	14.8	186.	ND	NC	323.	NC	NC
13.65	1373.	ND	10.2	2497.	1.30	18.3	222.	ND	NC	316.	NC	NC
13.80	1390.	ND	11.0	2711.	1.30	18.3	241.	ND	NC	320.	NC	NC
13.95	1387.	ND	10.9	2680.	1.19	11.3	147.	ND	NC	319.	NC	NC
14.10	1352.	ND	10.6	2604.	1.22	13.3	169.	ND	NC	311.	NC	NC
14.25	1369.	ND	11.0	2705.	1.32	19.3	254.	ND	NC	315.	NC	NC
14.40	1386.	ND	11.2	2747.	1.25	15.1	201.	ND	NC	319.	NC	NC
14.55	1402.	ND	10.8	2666.	1.25	14.9	193.	ND	NC	322.	NC	NC
14.70	1441.	ND	9.8	2399.	1.28	17.1	200.	ND	NC	331.	NC	NC
14.85	1509.	ND	10.3	2537.	1.27	16.4	202.	ND	NC	347.	NC	NC
15.00	1555.	ND	10.9	2678.	1.26	15.5	201.	ND	NC	358.	NC	NC
15.15	1610.	ND	10.4	2552.	1.19	11.6	144.	ND	NC	370.	NC	NC
15.30	1663.	ND	11.1	2728.	1.17	10.6	140.	ND	NC	383.	NC	NC
15.45	1547.	ND	11.2	2763.	1.22	13.1	175.	ND	NC	356.	NC	NC
15.60	1470.	ND	11.1	2725.	1.22	13.5	179.	ND	NC	338.	NC	NC
15.75	1436.	ND	10.7	2640.	1.17	10.5	135.	ND	NC	330.	NC	NC
15.90	1428.	ND	10.7	2619.	1.22	13.6	173.	ND	NC	328.	NC	NC
16.05	1421.	ND	10.7	2634.	1.19	11.4	146.	ND	NC	327.	NC	NC
16.20	1407.	ND	11.0	2717.	1.13	8.0	106.	ND	NC	324.	NC	NC
16.35	1395.	ND	10.7	2636.	1.14	8.4	107.	ND	NC	321.	NC	NC
16.50	1400.	ND	10.6	2616.	1.16	9.9	126.	ND	NC	322.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1390.	ND	11.1	2719.	1.14	8.7	115.	ND	NC	320.	NC	NC
16.80	1373.	ND	10.4	2570.	1.15	8.8	110.	ND	NC	316.	NC	NC
16.95	1358.	ND	10.5	2576.	1.16	9.9	124.	ND	NC	312.	NC	NC
17.10	1344.	ND	10.9	2692.	1.17	10.5	138.	ND	NC	309.	NC	NC
17.25	1349.	ND	10.8	2646.	1.18	10.6	136.	ND	NC	310.	NC	NC
17.40	1402.	ND	10.8	2666.	1.21	12.7	164.	ND	NC	322.	NC	NC
17.55	1428.	ND	11.0	2696.	1.18	10.7	140.	ND	NC	328.	NC	NC
17.70	1449.	ND	10.9	2673.	1.19	11.3	147.	ND	NC	333.	NC	NC
17.85	1519.	ND	10.9	2678.	1.22	13.6	176.	ND	NC	349.	NC	NC
18.00	1575.	ND	11.3	2780.	1.20	12.1	164.	ND	NC	362.	NC	NC
18.15	1618.	ND	11.2	2755.	1.18	10.7	143.	ND	NC	372.	NC	NC
18.30	1608.	ND	11.1	2735.	1.18	10.6	141.	ND	NC	370.	NC	NC
18.45	1534.	ND	11.1	2737.	1.20	12.2	163.	ND	NC	353.	NC	NC
18.60	1452.	ND	11.3	2776.	1.20	11.8	160.	ND	NC	334.	NC	NC
18.75	1421.	ND	11.2	2754.	1.13	7.6	102.	ND	NC	327.	NC	NC
18.90	1398.	ND	10.8	2666.	1.15	8.9	115.	ND	NC	321.	NC	NC
19.05	1394.	ND	10.9	2686.	1.21	12.5	163.	ND	NC	321.	NC	NC
19.20	1398.	ND	11.3	2775.	1.15	9.0	122.	ND	NC	322.	NC	NC
19.35	1398.	ND	10.9	2679.	1.17	10.1	131.	ND	NC	322.	NC	NC
19.50	1387.	ND	10.7	2630.	1.23	14.2	181.	ND	NC	319.	NC	NC
19.65	1373.	ND	11.2	2759.	1.23	14.1	189.	ND	NC	316.	NC	NC
19.80	1431.	ND	11.1	2725.	1.15	8.8	117.	ND	NC	329.	NC	NC
19.95	1322.	ND	10.2	2504.	1.20	12.2	148.	ND	NC	304.	NC	NC
20.10	1325.	ND	10.5	2588.	1.26	16.0	200.	ND	NC	305.	NC	NC
20.25	1365.	ND	10.7	2641.	1.19	11.3	145.	ND	NC	314.	NC	NC
20.40	1398.	ND	10.5	2577.	1.15	8.9	111.	ND	NC	322.	NC	NC
20.55	1441.	ND	10.2	2504.	1.15	8.9	108.	ND	NC	331.	NC	NC
20.70	1464.	ND	10.9	2678.	1.27	16.5	214.	ND	NC	337.	NC	NC
20.85	1521.	ND	10.9	2678.	1.21	12.5	162.	ND	NC	350.	NC	NC
21.00	1625.	ND	11.1	2729.	1.23	14.2	188.	ND	NC	374.	NC	NC
21.15	1637.	ND	10.9	2679.	1.34	20.9	271.	ND	NC	376.	NC	NC
21.30	1619.	ND	10.9	2676.	1.29	17.4	226.	ND	NC	372.	NC	NC
21.45	1531.	ND	10.9	2678.	1.18	10.6	138.	ND	NC	352.	NC	NC
21.60	1428.	ND	10.8	2653.	1.17	10.4	134.	ND	NC	328.	NC	NC
21.75	1410.	ND	10.9	2671.	1.22	13.1	170.	ND	NC	324.	NC	NC
21.90	1415.	ND	11.2	2755.	1.18	10.7	144.	ND	NC	326.	NC	NC
22.05	1403.	ND	10.8	2650.	1.15	8.8	113.	ND	NC	323.	NC	NC
22.20	1394.	ND	10.5	2582.	1.17	10.5	131.	ND	NC	321.	NC	NC
22.35	1389.	ND	11.1	2733.	1.21	12.5	166.	ND	NC	319.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1384.	ND	10.7	2634.	1.14	8.5	109.	ND	NC	318.	NC	NC
22.65	1381.	ND	10.4	2555.	1.17	10.5	130.	ND	NC	318.	NC	NC
22.80	1355.	ND	10.7	2624.	1.20	11.9	152.	ND	NC	312.	NC	NC
22.95	1338.	ND	10.8	2667.	1.17	10.3	134.	ND	NC	308.	NC	NC
23.10	1328.	ND	10.6	2598.	1.16	9.9	125.	ND	NC	305.	NC	NC
23.25	1341.	ND	10.4	2549.	1.20	11.9	148.	ND	NC	308.	NC	NC
23.40	1381.	ND	11.1	2725.	1.20	12.1	160.	ND	NC	318.	NC	NC
23.55	1437.	ND	10.9	2682.	1.18	11.1	145.	ND	NC	331.	NC	NC
23.70	1458.	ND	10.8	2667.	1.19	11.6	151.	ND	NC	335.	NC	NC
23.85	1483.	ND	11.1	2734.	1.20	12.1	161.	ND	NC	341.	NC	NC
24.00	1550.	ND	11.1	2718.	1.18	10.9	144.	ND	NC	357.	NC	NC
24.15	1616.	ND	10.7	2635.	1.17	10.5	135.	ND	NC	372.	NC	NC
24.30	1570.	ND	11.1	2729.	1.17	10.3	136.	ND	NC	361.	NC	NC
24.45	1493.	ND	11.2	2748.	1.16	9.9	131.	ND	NC	343.	NC	NC
24.60	1433.	ND	11.2	2764.	1.15	9.1	122.	ND	NC	330.	NC	NC
24.75	1400.	ND	10.8	2650.	1.16	9.7	125.	ND	NC	322.	NC	NC
24.90	1393.	ND	10.7	2630.	1.17	10.3	132.	ND	NC	320.	NC	NC
25.05	1403.	ND	10.9	2669.	1.17	10.5	136.	ND	NC	323.	NC	NC
25.20	1405.	ND	11.0	2708.	1.16	9.9	139.	ND	NC	323.	NC	NC
25.35	1370.	ND	10.8	2661.	1.17	10.5	136.	ND	NC	315.	NC	NC
25.50	1376.	ND	10.8	2652.	1.20	12.0	154.	ND	NC	316.	NC	NC
25.65	1371.	ND	10.8	2660.	1.20	12.3	158.	ND	NC	315.	NC	NC
25.80	1354.	ND	10.6	2598.	1.19	11.3	142.	ND	NC	311.	NC	NC
25.95	1329.	ND	10.6	2614.	1.21	12.6	160.	ND	NC	306.	NC	NC
26.10	1342.	ND	10.8	2662.	1.22	13.5	174.	ND	NC	309.	NC	NC
26.25	1355.	ND	10.6	2613.	1.21	12.5	158.	ND	NC	312.	NC	NC
26.40	1405.	ND	10.5	2589.	1.21	12.7	159.	ND	NC	323.	NC	NC
26.55	1434.	ND	11.0	2711.	1.23	14.0	185.	ND	NC	330.	NC	NC
26.70	1483.	ND	11.3	2770.	1.24	14.6	196.	ND	NC	341.	NC	NC
26.85	1552.	ND	10.7	2634.	1.22	13.5	173.	ND	NC	357.	NC	NC
27.00	1610.	ND	10.8	2662.	1.21	12.8	166.	ND	NC	370.	NC	NC
27.15	1646.	ND	11.0	2715.	1.22	13.5	179.	ND	NC	379.	NC	NC
27.30	1588.	ND	11.2	2751.	1.22	13.3	177.	ND	NC	365.	NC	NC
27.45	1435.	ND	11.0	2711.	1.18	10.9	144.	ND	NC	330.	NC	NC
27.60	1410.	ND	10.9	2675.	1.18	10.8	140.	ND	NC	324.	NC	NC
27.75	1414.	ND	11.0	2716.	1.20	12.0	158.	ND	NC	325.	NC	NC
27.90	1412.	ND	11.2	2765.	1.25	15.0	202.	ND	NC	325.	NC	NC
28.05	1398.	ND	10.9	2669.	1.19	11.5	149.	ND	NC	321.	NC	NC
28.20	1372.	ND	10.9	2691.	1.22	13.1	171.	ND	NC	316.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1367.	ND	11.1	2731.	1.28	17.1	227.	ND	NC	314.	NC	NC
28.50	1367.	ND	11.3	2788.	1.24	14.7	199.	ND	NC	314.	NC	NC
28.65	1364.	ND	10.8	2663.	1.26	15.8	205.	ND	NC	314.	NC	NC
28.80	1341.	ND	11.2	2755.	1.29	17.5	234.	ND	NC	308.	NC	NC
28.95	1326.	ND	11.2	2762.	1.30	18.2	244.	ND	NC	305.	NC	NC
29.10	1333.	ND	10.7	2634.	1.31	18.6	237.	ND	NC	307.	NC	NC
29.25	1348.	ND	11.1	2727.	1.31	19.0	252.	ND	NC	310.	NC	NC
29.40	1393.	ND	11.4	2795.	1.30	18.4	250.	ND	NC	320.	NC	NC
29.55	1451.	ND	10.9	2668.	1.31	19.1	247.	ND	NC	334.	NC	NC
29.70	1478.	ND	10.9	2668.	1.32	19.2	249.	ND	NC	340.	NC	NC
29.85	1491.	ND	10.9	2672.	1.28	17.0	220.	ND	NC	343.	NC	NC
30.00	1564.	ND	11.0	2706.	1.26	16.0	210.	ND	NC	360.	NC	NC
30.15	1617.	ND	10.6	2607.	1.26	15.7	199.	ND	NC	372.	NC	NC
30.30	1556.	ND	10.7	2622.	1.25	14.9	190.	ND	NC	358.	NC	NC
30.45	1463.	ND	10.8	2667.	1.24	14.3	185.	ND	NC	336.	NC	NC
30.60	1427.	ND	10.7	2638.	1.20	12.3	158.	ND	NC	328.	NC	NC
30.75	1410.	ND	10.4	2565.	1.25	15.4	191.	ND	NC	324.	NC	NC
30.90	1398.	ND	10.6	2611.	1.30	18.0	229.	ND	NC	322.	NC	NC
31.05	1390.	ND	10.9	2672.	1.21	12.8	167.	ND	NC	320.	NC	NC
31.20	1375.	ND	10.5	2592.	1.26	15.6	196.	ND	NC	316.	NC	NC
31.35	1361.	ND	10.3	2530.	1.30	18.4	227.	ND	NC	313.	NC	NC
31.50	1369.	ND	10.7	2630.	1.29	17.6	225.	ND	NC	315.	NC	NC
31.65	1345.	ND	10.2	2504.	1.30	18.2	221.	ND	NC	309.	NC	NC
31.80	1333.	ND	10.4	2560.	1.38	22.9	285.	ND	NC	307.	NC	NC
31.95	1325.	ND	10.9	2670.	1.37	22.4	291.	ND	NC	305.	NC	NC
32.10	1337.	ND	10.9	2670.	1.30	18.3	238.	ND	NC	308.	NC	NC
32.25	1378.	ND	10.6	2604.	1.41	24.7	312.	ND	NC	317.	NC	NC
32.40	1413.	ND	10.8	2651.	1.40	24.5	315.	ND	NC	325.	NC	NC
32.55	1452.	ND	10.6	2611.	1.35	21.4	272.	ND	NC	334.	NC	NC
32.70	1503.	ND	10.0	2467.	1.29	17.7	212.	ND	NC	346.	NC	NC
32.85	1448.	ND	9.7	2386.	1.31	18.9	219.	ND	NC	333.	NC	NC
33.00	1655.	ND	9.8	2410.	1.33	19.8	232.	ND	NC	381.	NC	NC
33.15	1641.	ND	10.5	2576.	1.29	17.6	220.	ND	NC	377.	NC	NC
33.30	1535.	ND	10.5	2591.	1.19	11.6	147.	ND	NC	353.	NC	NC
33.45	1422.	ND	10.3	2534.	1.13	7.8	96.	ND	NC	327.	NC	NC
33.60	1409.	ND	10.2	2508.	1.32	19.4	236.	ND	NC	324.	NC	NC
33.75	1403.	ND	10.0	2451.	1.31	18.7	222.	ND	NC	323.	NC	NC
33.90	1400.	ND	9.9	2422.	1.34	20.8	245.	ND	NC	322.	NC	NC
34.05	1404.	ND	10.1	2479.	1.45	27.0	325.	ND	NC	323.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1392.	ND	10.1	2492.	1.37	22.3	270.	ND	NC	320.	NC	NC
34.35	1394.	ND	10.1	2493.	1.35	21.5	260.	ND	NC	321.	NC	NC
34.50	1377.	ND	10.5	2579.	1.40	24.0	300.	ND	NC	317.	NC	NC
34.65	1358.	ND	10.7	2643.	1.43	25.9	332.	ND	NC	312.	NC	NC
34.80	1340.	ND	10.7	2635.	1.39	23.7	304.	ND	NC	308.	NC	NC
34.95	1324.	ND	10.8	2649.	1.43	26.0	334.	ND	NC	304.	NC	NC
35.10	1335.	ND	10.9	2689.	1.52	31.8	415.	ND	NC	307.	NC	NC
35.25	1355.	ND	11.1	2728.	1.47	28.3	375.	ND	NC	312.	NC	NC
35.40	1405.	ND	11.0	2704.	1.45	27.2	357.	ND	NC	323.	NC	NC
35.55	1494.	ND	11.0	2694.	1.48	29.0	380.	ND	NC	344.	NC	NC
35.70	1557.	ND	11.0	2708.	1.50	30.4	399.	ND	NC	358.	NC	NC
35.85	1606.	ND	11.1	2741.	1.47	28.2	375.	ND	NC	369.	NC	NC
36.00	1662.	ND	11.0	2710.	1.40	24.5	322.	ND	NC	382.	NC	NC
36.15	1615.	ND	10.9	2682.	1.39	23.5	306.	ND	NC	371.	NC	NC
36.30	1456.	ND	10.9	2692.	1.42	25.6	335.	ND	NC	335.	NC	NC
36.45	1390.	ND	10.7	2635.	1.43	26.4	337.	ND	NC	320.	NC	NC
36.60	1388.	ND	10.1	2488.	1.38	23.3	281.	ND	NC	319.	NC	NC
36.75	1409.	ND	10.5	2574.	1.49	30.0	374.	ND	NC	324.	NC	NC
36.90	1392.	ND	10.6	2615.	1.49	29.6	376.	ND	NC	320.	NC	NC
37.05	1359.	ND	10.2	2510.	1.41	24.5	299.	ND	NC	313.	NC	NC
37.20	1383.	ND	9.6	2372.	1.43	26.1	301.	ND	NC	318.	NC	NC
37.35	1383.	ND	8.9	2197.	1.47	28.8	307.	ND	NC	318.	NC	NC
37.50	1335.	ND	6.9	1700.	1.08	4.9	40.	ND	NC	307.	NC	NC
37.65	1296.	ND	7.5	1852.	1.14	8.7	78.	ND	NC	298.	NC	NC
37.80	1309.	ND	7.2	1763.	1.40	24.2	207.	ND	NC	301.	NC	NC
37.95	1336.	ND	7.1	1748.	1.05	3.1	27.	ND	NC	307.	NC	NC
38.10	1348.	ND	7.7	1890.	1.01	0.5	5.	ND	NC	310.	NC	NC
38.25	1393.	ND	8.5	2088.	1.25	15.4	156.	ND	NC	320.	NC	NC
38.40	1439.	ND	8.7	2135.	1.13	8.1	84.	ND	NC	331.	NC	NC
38.55	1518.	ND	8.4	2056.	1.02	1.0	10.	ND	NC	349.	NC	NC
38.70	1677.	ND	7.1	1742.	1.01	0.9	7.	ND	NC	386.	NC	NC
38.85	1710.	ND	8.9	2178.	1.06	3.7	39.	ND	NC	393.	NC	NC
39.00	1705.	ND	10.0	2471.	1.24	14.3	171.	ND	NC	392.	NC	NC
39.15	1595.	ND	9.8	2403.	1.19	11.3	131.	ND	NC	367.	NC	NC
39.30	1457.	ND	9.8	2421.	1.19	11.4	134.	ND	NC	335.	NC	NC
39.45	1431.	ND	10.0	2455.	1.24	14.5	173.	ND	NC	329.	NC	NC
39.60	1406.	ND	9.9	2424.	1.21	12.6	148.	ND	NC	323.	NC	NC
39.75	1388.	ND	10.0	2449.	1.18	11.1	132.	ND	NC	319.	NC	NC
39.90	1391.	ND	10.3	2537.	1.21	12.6	155.	ND	NC	320.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1387.	ND	10.5	2594.	1.19	11.7	147.	ND	NC	319.	NC	NC
40.20	1372.	ND	10.3	2521.	1.15	8.9	109.	ND	NC	316.	NC	NC
40.35	1363.	ND	10.2	2513.	1.16	9.8	119.	ND	NC	313.	NC	NC
40.50	1348.	ND	10.2	2519.	1.16	9.8	120.	ND	NC	310.	NC	NC
40.65	1328.	ND	10.4	2557.	1.13	7.8	97.	ND	NC	305.	NC	NC
40.80	1328.	ND	10.3	2537.	1.12	7.5	92.	ND	NC	305.	NC	NC
40.95	1361.	ND	10.1	2479.	1.12	7.1	86.	ND	NC	313.	NC	NC
41.10	1370.	ND	10.1	2475.	1.10	6.1	74.	ND	NC	315.	NC	NC
41.25	1426.	ND	10.0	2454.	1.09	5.6	67.	ND	NC	328.	NC	NC
41.40	1481.	ND	10.1	2493.	1.09	5.5	66.	ND	NC	341.	NC	NC
41.55	1507.	ND	9.9	2431.	1.08	4.9	57.	ND	NC	347.	NC	NC
41.70	1575.	ND	9.6	2372.	1.07	4.0	47.	ND	NC	362.	NC	NC
41.85	1645.	ND	9.8	2404.	1.06	3.6	43.	ND	NC	378.	NC	NC
42.00	1635.	ND	9.9	2434.	1.06	3.9	46.	ND	NC	376.	NC	NC
42.15	1523.	ND	10.0	2454.	1.07	4.0	47.	ND	NC	350.	NC	NC
42.30	1415.	ND	10.2	2508.	1.05	3.3	40.	ND	NC	325.	NC	NC
42.45	1388.	ND	10.3	2535.	1.06	3.7	45.	ND	NC	319.	NC	NC
42.60	1384.	ND	10.3	2536.	1.08	5.1	62.	ND	NC	318.	NC	NC
42.75	1370.	ND	10.6	2595.	1.09	5.5	69.	ND	NC	315.	NC	NC
42.90	1380.	ND	10.6	2610.	1.09	5.7	73.	ND	NC	317.	NC	NC
43.05	1368.	ND	10.5	2574.	1.12	7.2	90.	ND	NC	315.	NC	NC
43.20	1366.	ND	10.6	2612.	1.14	8.3	106.	ND	NC	314.	NC	NC
43.35	1352.	ND	10.8	2644.	1.12	7.3	94.	ND	NC	311.	NC	NC
43.50	1325.	ND	10.7	2643.	1.17	10.4	134.	ND	NC	305.	NC	NC
43.65	1308.	ND	10.7	2639.	1.19	11.8	151.	ND	NC	301.	NC	NC
43.80	1320.	ND	10.7	2638.	1.18	10.9	139.	ND	NC	304.	NC	NC
43.95	1330.	ND	10.6	2610.	1.18	11.1	140.	ND	NC	306.	NC	NC
44.10	1379.	ND	10.6	2610.	1.23	13.7	174.	ND	NC	317.	NC	NC
44.25	1416.	ND	11.0	2700.	1.22	13.6	179.	ND	NC	326.	NC	NC
44.40	1444.	ND	11.1	2729.	1.21	12.6	167.	ND	NC	332.	NC	NC
44.55	1561.	ND	10.7	2628.	1.23	14.0	178.	ND	NC	359.	NC	NC
44.70	1588.	ND	10.9	2685.	1.26	15.9	208.	ND	NC	365.	NC	NC
44.85	1605.	ND	11.2	2750.	1.22	13.3	178.	ND	NC	369.	NC	NC
45.00	1561.	ND	11.2	2755.	1.22	13.3	178.	ND	NC	359.	NC	NC
45.15	1402.	ND	11.0	2697.	1.21	12.6	165.	ND	NC	323.	NC	NC
45.30	1392.	ND	11.0	2715.	1.21	12.6	166.	ND	NC	320.	NC	NC
45.45	1390.	ND	11.2	2762.	1.22	13.5	181.	ND	NC	320.	NC	NC
45.60	1400.	ND	11.3	2776.	1.21	12.7	171.	ND	NC	322.	NC	NC
45.75	1374.	ND	10.8	2666.	1.26	15.6	202.	ND	NC	316.	NC	NC
45.90	1375.	ND	11.1	2720.	1.28	17.0	224.	ND	NC	316.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 26 78
RUN NUMBER- 36
SEGMENT NUMBER- 2
WATER DEPTH- 22 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2%
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1397.	ND	11.4	2792.	1.20	12.4	168.	ND	NC	321.	NC	NC
0.15	1402.	ND	11.1	2736.	1.21	12.8	170.	ND	NC	323.	NC	NC
0.30	1376.	ND	10.7	2637.	1.25	15.3	196.	ND	NC	316.	NC	NC
0.45	1386.	ND	11.2	2747.	1.27	16.3	217.	ND	NC	319.	NC	NC
0.60	1393.	ND	11.0	2700.	1.23	14.2	187.	ND	NC	320.	NC	NC
0.75	1379.	ND	10.6	2607.	1.27	16.6	210.	ND	NC	317.	NC	NC
0.90	1338.	ND	10.8	2653.	1.30	18.2	234.	ND	NC	308.	NC	NC
1.05	1321.	ND	10.9	2689.	1.28	16.7	219.	ND	NC	304.	NC	NC
1.20	1332.	ND	10.9	2690.	1.34	20.6	269.	ND	NC	306.	NC	NC
1.35	1335.	ND	11.0	2697.	1.37	22.6	296.	ND	NC	307.	NC	NC
1.50	1367.	ND	11.0	2713.	1.35	21.4	282.	ND	NC	314.	NC	NC
1.65	1377.	ND	10.3	2545.	1.37	22.3	275.	ND	NC	317.	NC	NC
1.80	1411.	ND	10.9	2687.	1.39	23.7	310.	ND	NC	325.	NC	NC
1.95	1471.	ND	10.9	2690.	1.40	24.4	318.	ND	NC	338.	NC	NC
2.10	1437.	ND	10.0	2460.	1.29	17.7	212.	ND	NC	331.	NC	NC
2.25	1603.	ND	8.1	1996.	1.13	7.7	75.	ND	NC	369.	NC	NC
2.40	1672.	ND	7.9	1934.	1.02	1.1	10.	ND	NC	385.	NC	NC
2.55	1651.	ND	8.5	2083.	1.01	0.5	5.	ND	NC	380.	NC	NC
2.70	1452.	ND	7.4	1818.	1.05	2.8	25.	ND	NC	334.	NC	NC
2.85	1440.	ND	9.2	2268.	1.20	11.8	130.	ND	NC	331.	NC	NC
3.00	1415.	ND	10.2	2500.	1.22	13.6	165.	ND	NC	325.	NC	NC
3.15	1401.	ND	10.2	2501.	1.15	9.1	111.	ND	NC	322.	NC	NC
3.30	1395.	ND	10.1	2473.	1.14	8.4	101.	ND	NC	321.	NC	NC
3.45	1387.	ND	10.3	2535.	1.33	20.0	247.	ND	NC	319.	NC	NC
3.60	1371.	ND	10.2	2496.	1.39	23.9	289.	ND	NC	315.	NC	NC
3.75	1362.	ND	10.1	2483.	1.39	23.7	285.	ND	NC	313.	NC	NC
3.90	1355.	ND	10.2	2503.	1.39	23.9	291.	ND	NC	312.	NC	NC
4.05	1330.	ND	10.4	2561.	1.42	25.5	317.	ND	NC	306.	NC	NC
4.20	1319.	ND	10.4	2558.	1.44	26.4	327.	ND	NC	301.	NC	NC
4.35	1330.	ND	10.4	2557.	1.44	26.6	330.	ND	NC	306.	NC	NC
4.50	1362.	ND	11.0	2714.	1.46	27.7	365.	ND	NC	313.	NC	NC
4.65	1400.	ND	10.7	2636.	1.46	27.9	358.	ND	NC	322.	NC	NC
4.80	1448.	ND	10.6	2614.	1.45	27.2	345.	ND	NC	333.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1516.	ND	10.7	2627.	1.47	28.3	361.	ND	NC	349.	NC	NC
5.10	1582.	ND	10.7	2632.	1.48	29.1	372.	ND	NC	364.	NC	NC
5.25	1640.	ND	10.5	2583.	1.40	24.3	305.	ND	NC	377.	NC	NC
5.40	1681.	ND	10.5	2593.	1.41	24.7	311.	ND	NC	387.	NC	NC
5.55	1448.	ND	10.7	2628.	1.45	27.6	352.	ND	NC	333.	NC	NC
5.70	1418.	ND	10.6	2600.	1.43	25.9	327.	ND	NC	326.	NC	NC
5.85	1403.	ND	9.8	2408.	1.34	20.5	240.	ND	NC	323.	NC	NC
6.00	1408.	ND	9.9	2430.	1.42	25.2	297.	ND	NC	324.	NC	NC
6.15	1408.	ND	10.3	2536.	1.56	34.0	419.	ND	NC	324.	NC	NC
6.30	1356.	ND	10.0	2451.	1.38	22.8	271.	ND	NC	312.	NC	NC
6.45	1340.	ND	9.9	2431.	1.48	29.2	345.	ND	NC	308.	NC	NC
6.60	1360.	ND	9.6	2359.	1.43	25.9	297.	ND	NC	313.	NC	NC
6.75	1373.	ND	8.1	1980.	1.19	11.3	108.	ND	NC	316.	NC	NC
6.90	1380.	ND	8.1	1989.	1.07	4.0	39.	ND	NC	317.	NC	NC
7.05	1355.	ND	7.8	1922.	1.18	11.0	103.	ND	NC	312.	NC	NC
7.20	1319.	ND	8.2	2006.	1.27	16.3	159.	ND	NC	303.	NC	NC
7.35	1297.	ND	9.2	2254.	1.19	11.3	123.	ND	NC	298.	NC	NC
7.50	1325.	ND	7.5	1847.	1.51	31.2	280.	ND	NC	305.	NC	NC
7.65	1422.	ND	6.0	1487.	1.03	2.1	15.	ND	NC	327.	NC	NC
7.80	1477.	ND	6.7	1640.	1.10	6.3	50.	ND	NC	340.	NC	NC
7.95	1526.	ND	7.6	1859.	1.29	17.7	160.	ND	NC	351.	NC	NC
8.10	1581.	ND	8.5	2099.	1.48	29.2	298.	ND	NC	364.	NC	NC
8.25	1738.	ND	9.1	2244.	1.53	32.3	352.	ND	NC	400.	NC	NC
8.40	1661.	ND	9.7	2375.	1.42	25.5	294.	ND	NC	382.	NC	NC
8.55	1540.	ND	9.9	2446.	1.47	28.5	338.	ND	NC	354.	NC	NC
8.70	1446.	ND	9.8	2407.	1.46	28.0	327.	ND	NC	333.	NC	NC
8.85	1394.	ND	9.5	2327.	1.39	23.4	264.	ND	NC	321.	NC	NC
9.00	1391.	ND	9.9	2431.	1.54	33.0	390.	ND	NC	320.	NC	NC
9.15	1403.	ND	8.3	2052.	1.32	19.4	193.	ND	NC	323.	NC	NC
9.30	1385.	ND	7.6	1880.	1.11	6.7	61.	ND	NC	319.	NC	NC
9.45	1359.	ND	7.7	1889.	1.21	12.8	117.	ND	NC	313.	NC	NC
9.60	1375.	ND	7.1	1755.	1.17	10.6	98.	ND	NC	316.	NC	NC
9.75	1405.	ND	5.4	1337.	1.01	0.7	5.	ND	NC	323.	NC	NC
9.90	1336.	ND	7.3	1798.	1.06	3.8	33.	ND	NC	307.	NC	NC
10.05	1306.	ND	8.2	2019.	1.22	13.1	128.	ND	NC	300.	NC	NC
10.20	1315.	ND	10.0	2465.	1.31	18.7	224.	ND	NC	302.	NC	NC
10.35	1365.	ND	10.9	2679.	1.28	17.1	223.	ND	NC	314.	NC	NC
10.50	1399.	ND	10.8	2654.	1.25	14.9	192.	ND	NC	322.	NC	NC
10.65	1418.	ND	10.9	2675.	1.19	11.5	150.	ND	NC	326.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1442.	ND	11.2	2746.	1.16	9.9	133.	ND	NC	332.	NC	NC
10.95	1530.	ND	11.2	2749.	1.20	12.1	161.	ND	NC	352.	NC	NC
11.10	1606.	ND	11.2	2744.	1.26	15.8	211.	ND	NC	369.	NC	NC
11.25	1627.	ND	11.3	2777.	1.29	17.4	234.	ND	NC	374.	NC	NC
11.40	1566.	ND	10.9	2683.	1.28	17.0	222.	ND	NC	360.	NC	NC
11.55	1453.	ND	10.9	2683.	1.24	14.8	193.	ND	NC	334.	NC	NC
11.70	1375.	ND	10.0	2460.	1.31	18.6	222.	ND	NC	316.	NC	NC
11.85	1359.	ND	10.0	2454.	1.27	16.6	198.	ND	NC	313.	NC	NC
12.00	1376.	ND	9.8	2420.	1.10	5.8	68.	ND	NC	316.	NC	NC
12.15	1401.	ND	7.7	1885.	1.02	1.1	10.	ND	NC	322.	NC	NC
12.30	1395.	ND	7.5	1848.	1.02	1.0	9.	ND	NC	321.	NC	NC
12.45	1379.	ND	7.5	1849.	1.24	14.6	131.	ND	NC	317.	NC	NC
12.60	1369.	ND	9.6	2359.	1.40	24.1	276.	ND	NC	315.	NC	NC
12.75	1372.	ND	9.5	2337.	1.29	17.8	202.	ND	NC	316.	NC	NC
12.90	1366.	ND	10.0	2469.	1.22	13.4	161.	ND	NC	314.	NC	NC
13.05	1333.	ND	10.7	2621.	1.32	19.7	250.	ND	NC	307.	NC	NC
13.20	1330.	ND	10.8	2659.	1.36	21.6	279.	ND	NC	306.	NC	NC
13.35	1347.	ND	11.0	2709.	1.30	18.0	237.	ND	NC	310.	NC	NC
13.50	1355.	ND	11.2	2752.	1.32	19.2	257.	ND	NC	312.	NC	NC
13.65	1464.	ND	10.9	2680.	1.32	19.5	254.	ND	NC	337.	NC	NC
13.80	1489.	ND	10.7	2626.	1.31	19.1	243.	ND	NC	343.	NC	NC
13.95	1556.	ND	10.7	2627.	1.31	18.7	238.	ND	NC	358.	NC	NC
14.10	1637.	ND	10.8	2649.	1.31	18.6	239.	ND	NC	377.	NC	NC
14.25	1664.	ND	10.6	2605.	1.30	18.0	228.	ND	NC	383.	NC	NC
14.40	1552.	ND	10.5	2572.	1.29	17.9	223.	ND	NC	357.	NC	NC
14.55	1448.	ND	10.2	2514.	1.22	13.1	160.	ND	NC	333.	NC	NC
14.70	1425.	ND	10.3	2545.	1.25	15.2	187.	ND	NC	328.	NC	NC
14.85	1397.	ND	10.5	2587.	1.33	20.1	252.	ND	NC	321.	NC	NC
15.00	1352.	ND	9.8	2403.	1.34	20.4	238.	ND	NC	311.	NC	NC
15.15	1382.	ND	9.8	2419.	1.21	12.9	151.	ND	NC	318.	NC	NC
15.30	1387.	ND	8.2	2010.	1.10	5.9	58.	ND	NC	319.	NC	NC
15.45	1385.	ND	7.7	1885.	1.04	2.4	22.	ND	NC	318.	NC	NC
15.60	1384.	ND	7.5	1835.	1.20	12.3	109.	ND	NC	318.	NC	NC
15.75	1386.	ND	8.1	1997.	1.24	14.7	143.	ND	NC	319.	NC	NC
15.90	1375.	ND	8.3	2040.	1.01	0.6	6.	ND	NC	316.	NC	NC
16.05	1310.	ND	7.9	1940.	1.01	0.4	4.	ND	NC	301.	NC	NC
16.20	1313.	ND	7.3	1784.	1.14	8.6	74.	ND	NC	302.	NC	NC
16.35	1405.	ND	8.7	2144.	1.24	14.8	154.	ND	NC	323.	NC	NC
16.50	1410.	ND	10.2	2518.	1.29	17.7	216.	ND	NC	324.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1446.	ND	10.6	2619.	1.32	19.4	247.	ND	NC	332.	NC	NC
16.80	1522.	ND	10.5	2592.	1.32	19.3	242.	ND	NC	350.	NC	NC
16.95	1600.	ND	10.5	2591.	1.30	17.9	225.	ND	NC	368.	NC	NC
17.10	1654.	ND	10.8	2647.	1.31	18.5	238.	ND	NC	380.	NC	NC
17.25	1594.	ND	10.7	2632.	1.23	14.2	182.	ND	NC	367.	NC	NC
17.40	1479.	ND	10.6	2607.	1.24	14.5	183.	ND	NC	340.	NC	NC
17.55	1420.	ND	10.6	2605.	1.27	16.3	206.	ND	NC	327.	NC	NC
17.70	1402.	ND	10.7	2620.	1.20	12.1	154.	ND	NC	323.	NC	NC
17.85	1390.	ND	10.6	2618.	1.21	12.5	158.	ND	NC	320.	NC	NC
18.00	1381.	ND	10.7	2633.	1.22	13.3	171.	ND	NC	318.	NC	NC
18.15	1388.	ND	10.6	2617.	1.21	13.0	165.	ND	NC	319.	NC	NC
18.30	1369.	ND	11.0	2705.	1.18	10.7	141.	ND	NC	315.	NC	NC
18.45	1358.	ND	10.6	2600.	1.21	12.5	157.	ND	NC	312.	NC	NC
18.60	1355.	ND	10.3	2530.	1.19	11.6	143.	ND	NC	312.	NC	NC
18.75	1344.	ND	10.1	2486.	1.17	10.2	123.	ND	NC	309.	NC	NC
18.90	1327.	ND	10.4	2555.	1.19	11.3	140.	ND	NC	305.	NC	NC
19.05	1332.	ND	10.4	2560.	1.18	10.6	134.	ND	NC	306.	NC	NC
19.20	1372.	ND	10.4	2546.	1.15	9.3	115.	ND	NC	316.	NC	NC
19.35	1404.	ND	10.6	2596.	1.16	9.5	120.	ND	NC	323.	NC	NC
19.50	1435.	ND	10.6	2612.	1.20	12.2	155.	ND	NC	330.	NC	NC
19.65	1491.	ND	10.6	2597.	1.20	11.8	149.	ND	NC	343.	NC	NC
19.80	1542.	ND	10.8	2650.	1.16	9.9	127.	ND	NC	355.	NC	NC
19.95	1601.	ND	10.8	2661.	1.18	11.0	142.	ND	NC	368.	NC	NC
20.10	1636.	ND	10.8	2647.	1.19	11.2	144.	ND	NC	376.	NC	NC
20.25	1605.	ND	10.7	2640.	1.15	8.9	114.	ND	NC	369.	NC	NC
20.40	1445.	ND	10.9	2680.	1.14	8.2	107.	ND	NC	332.	NC	NC
20.55	1398.	ND	10.9	2678.	1.15	9.1	119.	ND	NC	322.	NC	NC
20.70	1380.	ND	10.7	2630.	1.16	9.7	123.	ND	NC	317.	NC	NC
20.85	1387.	ND	10.6	2614.	1.14	8.7	110.	ND	NC	319.	NC	NC
21.00	1389.	ND	10.9	2673.	1.16	9.6	125.	ND	NC	319.	NC	NC
21.15	1379.	ND	10.8	2655.	1.20	11.9	153.	ND	NC	317.	NC	NC
21.30	1363.	ND	10.6	2606.	1.17	10.2	130.	ND	NC	314.	NC	NC
21.45	1359.	ND	10.6	2603.	1.16	9.4	119.	ND	NC	313.	NC	NC
21.60	1356.	ND	10.6	2617.	1.18	10.8	138.	ND	NC	312.	NC	NC
21.75	1331.	ND	10.5	2591.	1.18	11.0	138.	ND	NC	306.	NC	NC
21.90	1315.	ND	10.4	2567.	1.17	10.4	129.	ND	NC	302.	NC	NC
22.05	1321.	ND	10.7	2628.	1.19	11.5	146.	ND	NC	304.	NC	NC
22.20	1359.	ND	10.7	2630.	1.25	15.0	192.	ND	NC	313.	NC	NC
22.35	1397.	ND	10.8	2653.	1.23	13.8	178.	ND	NC	321.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1437.	ND	10.9	2676.	1.23	13.9	180.	ND	NC	331.	NC	NC
22.65	1487.	ND	11.1	2729.	1.27	16.4	218.	ND	NC	342.	NC	NC
22.80	1537.	ND	11.3	2767.	1.26	16.0	214.	ND	NC	353.	NC	NC
22.95	1587.	ND	11.3	2768.	1.24	14.6	197.	ND	NC	365.	NC	NC
23.10	1582.	ND	11.0	2706.	1.23	13.8	181.	ND	NC	364.	NC	NC
23.25	1447.	ND	10.9	2691.	1.23	14.0	182.	ND	NC	333.	NC	NC
23.40	1402.	ND	10.8	2663.	1.24	14.5	187.	ND	NC	322.	NC	NC
23.55	1398.	ND	10.8	2653.	1.22	13.1	169.	ND	NC	321.	NC	NC
23.70	1401.	ND	10.9	2677.	1.25	14.9	194.	ND	NC	322.	NC	NC
23.85	1382.	ND	10.6	2616.	1.24	14.3	182.	ND	NC	318.	NC	NC
24.00	1374.	ND	10.6	2596.	1.27	16.2	204.	ND	NC	316.	NC	NC
24.15	1380.	ND	10.8	2647.	1.26	15.6	201.	ND	NC	317.	NC	NC
24.30	1372.	ND	11.0	2714.	1.25	15.4	203.	ND	NC	316.	NC	NC
24.45	1332.	ND	10.5	2594.	1.30	18.1	228.	ND	NC	306.	NC	NC
24.60	1324.	ND	10.4	2567.	1.32	19.2	240.	ND	NC	305.	NC	NC
24.75	1347.	ND	10.8	2664.	1.32	19.3	250.	ND	NC	310.	NC	NC
24.90	1324.	ND	10.7	2637.	1.34	20.4	261.	ND	NC	305.	NC	NC
25.05	1327.	ND	10.4	2563.	1.36	22.0	274.	ND	NC	305.	NC	NC
25.20	1364.	ND	10.5	2582.	1.34	20.7	260.	ND	NC	314.	NC	NC
25.35	1420.	ND	10.7	2625.	1.35	21.2	271.	ND	NC	327.	NC	NC
25.50	1456.	ND	10.6	2605.	1.36	21.9	277.	ND	NC	335.	NC	NC
25.65	1471.	ND	10.4	2566.	1.32	19.6	244.	ND	NC	338.	NC	NC
25.80	1532.	ND	10.6	2614.	1.34	20.5	260.	ND	NC	352.	NC	NC
25.95	1681.	ND	10.5	2585.	1.33	20.2	254.	ND	NC	387.	NC	NC
26.10	1582.	ND	10.1	2484.	1.30	18.1	218.	ND	NC	364.	NC	NC
26.25	1529.	ND	10.0	2459.	1.26	16.0	191.	ND	NC	352.	NC	NC
26.40	1463.	ND	10.3	2530.	1.24	14.8	182.	ND	NC	336.	NC	NC
26.55	1387.	ND	9.7	2383.	1.27	16.6	192.	ND	NC	319.	NC	NC
26.70	1365.	ND	9.6	2370.	1.30	18.0	207.	ND	NC	314.	NC	NC
26.85	1371.	ND	9.9	2423.	1.31	19.0	224.	ND	NC	315.	NC	NC
27.00	1396.	ND	10.1	2476.	1.35	21.5	258.	ND	NC	321.	NC	NC
27.15	1330.	ND	9.9	2424.	1.32	19.6	230.	ND	NC	306.	NC	NC
27.30	1319.	ND	9.6	2363.	1.33	19.7	226.	ND	NC	303.	NC	NC
27.45	1347.	ND	9.6	2356.	1.22	13.3	152.	ND	NC	310.	NC	NC
27.60	1327.	ND	7.5	1844.	1.09	5.3	47.	ND	NC	305.	NC	NC
27.75	1368.	ND	7.8	1908.	1.01	0.8	7.	ND	NC	315.	NC	NC
27.90	1325.	ND	6.1	1499.	1.03	1.9	14.	ND	NC	305.	NC	NC
28.05	1314.	ND	7.4	1818.	1.20	12.0	106.	ND	NC	302.	NC	NC
28.20	1349.	ND	8.9	2185.	1.28	17.2	183.	ND	NC	311.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1385.	ND	10.3	2524.	1.17	10.6	130.	ND	NC	319.	NC	NC
28.50	1463.	ND	10.5	2581.	1.29	17.8	223.	ND	NC	337.	NC	NC
28.65	1513.	ND	10.5	2576.	1.35	21.4	267.	ND	NC	348.	NC	NC
28.80	1590.	ND	10.5	2585.	1.35	21.5	270.	ND	NC	366.	NC	NC
28.95	1641.	ND	10.6	2595.	1.34	20.6	260.	ND	NC	378.	NC	NC
29.10	1612.	ND	11.0	2712.	1.43	24.4	321.	ND	NC	371.	NC	NC
29.25	1472.	ND	10.5	2580.	1.36	21.9	274.	ND	NC	339.	NC	NC
29.40	1415.	ND	10.3	2540.	1.27	16.3	201.	ND	NC	326.	NC	NC
29.55	1404.	ND	10.1	2489.	1.25	14.9	180.	ND	NC	323.	NC	NC
29.70	1404.	ND	10.0	2464.	1.29	17.8	212.	ND	NC	323.	NC	NC
29.85	1394.	ND	10.1	2476.	1.28	16.9	203.	ND	NC	321.	NC	NC
30.00	1399.	ND	10.3	2525.	1.26	16.0	196.	ND	NC	322.	NC	NC
30.15	1367.	ND	10.6	2600.	1.29	17.8	224.	ND	NC	314.	NC	NC
30.30	1363.	ND	10.1	2482.	1.33	20.1	242.	ND	NC	314.	NC	NC
30.45	1359.	ND	10.4	2549.	1.28	17.1	211.	ND	NC	313.	NC	NC
30.60	1333.	ND	10.5	2571.	1.35	21.0	262.	ND	NC	307.	NC	NC
30.75	1314.	ND	10.5	2592.	1.42	25.5	321.	ND	NC	302.	NC	NC
30.90	1318.	ND	10.6	2604.	1.35	21.0	266.	ND	NC	303.	NC	NC
31.05	1347.	ND	10.6	2605.	1.32	19.4	245.	ND	NC	310.	NC	NC
31.20	1402.	ND	10.9	2671.	1.43	25.8	334.	ND	NC	322.	NC	NC
31.35	1452.	ND	11.1	2724.	1.39	23.9	316.	ND	NC	334.	NC	NC
31.50	1470.	ND	10.6	2595.	1.33	20.0	252.	ND	NC	338.	NC	NC
31.65	1516.	ND	10.6	2595.	1.31	19.0	239.	ND	NC	349.	NC	NC
31.80	1623.	ND	11.1	2728.	1.40	24.3	322.	ND	NC	373.	NC	NC
31.95	1636.	ND	10.6	2615.	1.33	19.9	253.	ND	NC	376.	NC	NC
32.10	1576.	ND	10.5	2589.	1.24	14.7	185.	ND	NC	363.	NC	NC
32.25	1486.	ND	10.6	2605.	1.28	17.1	216.	ND	NC	342.	NC	NC
32.40	1410.	ND	10.6	2616.	1.41	25.1	318.	ND	NC	324.	NC	NC
32.55	1427.	ND	10.3	2540.	1.28	16.9	208.	ND	NC	328.	NC	NC
32.70	1389.	ND	10.2	2508.	1.31	18.5	226.	ND	NC	319.	NC	NC
32.85	1387.	ND	10.4	2558.	1.40	24.1	299.	ND	NC	319.	NC	NC
33.00	1392.	ND	11.1	2732.	1.45	27.5	365.	ND	NC	320.	NC	NC
33.15	1381.	ND	10.6	2602.	1.32	19.2	242.	ND	NC	318.	NC	NC
33.30	1385.	ND	10.7	2628.	1.41	24.9	317.	ND	NC	319.	NC	NC
33.45	1350.	ND	10.7	2630.	1.49	29.9	382.	ND	NC	311.	NC	NC
33.60	1325.	ND	10.5	2581.	1.33	20.2	254.	ND	NC	305.	NC	NC
33.75	1318.	ND	10.7	2635.	1.41	24.7	316.	ND	NC	303.	NC	NC
33.90	1335.	ND	10.7	2637.	1.60	36.3	465.	ND	NC	307.	NC	NC
34.05	1380.	ND	10.7	2623.	1.47	28.4	362.	ND	NC	317.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1419.	ND	10.7	2628.	1.41	24.6	314.	ND	NC	326.	NC	NC
34.35	1454.	ND	10.8	2668.	1.51	30.7	398.	ND	NC	334.	NC	NC
34.5[illegible]	1506.	ND	10.7	2632.	1.51	30.8	394.	ND	NC	346.	NC	NC
34.65	1592.	ND	10.7	2633.	1.38	23.0	295.	ND	NC	366.	NC	NC
34.8[illegible]	1633.	ND	10.2	2510.	1.33	20.2	246.	ND	NC	375.	NC	NC
34.95	1621.	ND	10.3	2543.	1.42	25.6	316.	ND	NC	373.	NC	NC
35.10	1500.	ND	10.5	2578.	1.50	30.3	380.	ND	NC	345.	NC	NC
35.25	1415.	ND	10.1	2487.	1.27	16.1	195.	ND	NC	325.	NC	NC
35.4[illegible]	1404.	ND	9.9	2443.	1.37	22.2	263.	ND	NC	323.	NC	NC
35.55	1402.	ND	10.0	2458.	1.54	32.5	388.	ND	NC	322.	NC	NC
35.70	1391.	ND	9.6	2363.	1.47	28.2	324.	ND	NC	320.	NC	NC
35.85	1341.	ND	10.0	2448.	1.38	23.3	277.	ND	NC	308.	NC	NC
36.00	1350.	ND	10.5	2583.	1.57	34.7	435.	ND	NC	310.	NC	NC
36.15	1376.	ND	10.5	2583.	1.57	34.5	433.	ND	NC	316.	NC	NC
36.30	1336.	ND	9.7	2381.	1.33	19.8	229.	ND	NC	307.	NC	NC
36.45	1338.	ND	9.5	2341.	1.56	34.1	387.	ND	NC	308.	NC	NC
36.6[illegible]	1340.	ND	9.2	2265.	1.72	43.8	482.	ND	NC	308.	NC	NC
36.75	1342.	ND	8.4	2067.	1.09	5.2	53.	ND	NC	309.	NC	NC
36.90	1353.	ND	8.1	1983.	1.07	4.1	39.	ND	NC	311.	NC	NC
37.05	1322.	ND	7.1	1739.	1.07	4.3	36.	ND	NC	304.	NC	NC
37.20	1343.	ND	6.2	1535.	1.02	1.3	9.	ND	NC	309.	NC	NC
37.35	1500.	ND	8.1	2001.	1.01	0.3	3.	ND	NC	345.	NC	NC
37.50	1479.	ND	8.5	2090.	1.02	0.9	9.	ND	NC	340.	NC	NC
37.65	1640.	ND	7.0	1719.	1.03	1.8	15.	ND	NC	377.	NC	NC
37.80	1804.	ND	6.5	1586.	1.01	0.5	4.	ND	NC	415.	NC	NC
37.95	1684.	ND	7.3	1802.	1.04	2.5	22.	ND	NC	387.	NC	NC
38.10	1505.	ND	7.8	1924.	1.17	10.0	94.	ND	NC	346.	NC	NC
38.25	1435.	ND	8.4	2060.	1.23	13.7	137.	ND	NC	330.	NC	NC
38.40	1425.	ND	8.8	2165.	1.34	20.7	217.	ND	NC	328.	NC	NC
38.55	1430.	ND	8.8	2170.	1.44	26.5	279.	ND	NC	329.	NC	NC
38.70	1408.	ND	10.0	2450.	1.41	25.1	299.	ND	NC	324.	NC	NC
38.85	1391.	ND	9.8	2410.	1.50	30.2	354.	ND	NC	320.	NC	NC
39.00	1415.	ND	9.2	2266.	1.65	39.3	433.	ND	NC	325.	NC	NC
39.15	1406.	ND	9.7	2384.	1.44	27.0	312.	ND	NC	323.	NC	NC
39.30	1362.	ND	10.1	2496.	1.45	27.4	332.	ND	NC	313.	NC	NC
39.45	1317.	ND	10.0	2459.	1.50	30.4	363.	ND	NC	303.	NC	NC
39.60	1304.	ND	10.3	2533.	1.52	31.2	384.	ND	NC	300.	NC	NC
39.75	1329.	ND	10.9	2677.	1.54	32.8	426.	ND	NC	306.	NC	NC
39.9[illegible]	1352.	ND	9.3	2297.	1.57	34.3	383.	ND	NC	311.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1409.	ND	9.2	2265.	1.52	31.5	346.	ND	NC	324.	NC	NC
40.20	1477.	ND	10.2	2517.	1.49	29.5	361.	ND	NC	340.	NC	NC
40.35	1518.	ND	10.0	2471.	1.56	33.9	406.	ND	NC	349.	NC	NC
40.50	1605.	ND	9.4	2306.	1.58	35.2	394.	ND	NC	369.	NC	NC
40.65	1673.	ND	9.6	2350.	1.36	21.9	250.	ND	NC	385.	NC	NC
40.80	1585.	ND	9.4	2301.	1.54	32.5	363.	ND	NC	365.	NC	NC
40.95	1505.	ND	9.2	2270.	1.59	36.0	396.	ND	NC	346.	NC	NC
41.10	1479.	ND	9.6	2373.	1.43	26.3	303.	ND	NC	340.	NC	NC
41.25	1425.	ND	9.6	2352.	1.35	20.9	239.	ND	NC	328.	NC	NC
41.40	1407.	ND	9.6	2353.	1.52	31.3	358.	ND	NC	324.	NC	NC
41.55	1446.	ND	9.6	2362.	1.52	31.5	361.	ND	NC	333.	NC	NC
41.70	1414.	ND	9.7	2378.	1.32	19.3	223.	ND	NC	325.	NC	NC
41.85	1404.	ND	9.8	2407.	1.37	22.6	264.	ND	NC	323.	NC	NC
42.00	1382.	ND	9.3	2291.	1.45	27.4	305.	ND	NC	318.	NC	NC
42.15	1387.	ND	9.4	2314.	1.53	32.3	363.	ND	NC	319.	NC	NC
42.30	1381.	ND	9.8	2404.	1.61	37.2	434.	ND	NC	318.	NC	NC
42.45	1259.	ND	9.9	2436.	1.69	42.0	497.	ND	NC	289.	NC	NC
42.60	1285.	ND	8.4	2071.	1.55	33.2	334.	ND	NC	295.	NC	NC
42.75	1379.	ND	9.6	2372.	1.50	30.4	350.	ND	NC	317.	NC	NC
42.90	1327.	ND	9.1	2232.	1.51	31.1	337.	ND	NC	305.	NC	NC
43.05	1341.	ND	8.7	2127.	1.40	24.0	248.	ND	NC	308.	NC	NC
43.20	1457.	ND	6.3	1538.	1.22	13.5	101.	ND	NC	335.	NC	NC
43.35	1612.	ND	6.4	1576.	1.56	33.9	259.	ND	NC	371.	NC	NC
43.50	1550.	ND	6.7	1653.	1.61	36.9	296.	ND	NC	356.	NC	NC
43.65	1537.	ND	6.9	1697.	1.80	48.6	400.	ND	NC	354.	NC	NC
43.80	1667.	ND	6.9	1698.	1.89	54.2	447.	ND	NC	383.	NC	NC
43.95	1501.	ND	8.1	2002.	1.70	42.4	412.	ND	NC	345.	NC	NC
44.10	1414.	ND	8.8	2154.	1.52	31.2	327.	ND	NC	325.	NC	NC
44.25	1367.	ND	9.1	2240.	1.57	34.5	375.	ND	NC	314.	NC	NC
44.40	1401.	ND	8.4	2059.	1.90	54.4	544.	ND	NC	322.	NC	NC
44.55	1412.	ND	8.8	2159.	1.72	43.6	457.	ND	NC	325.	NC	NC
44.70	1408.	ND	8.5	2081.	1.78	47.0	475.	ND	NC	324.	NC	NC
44.85	1406.	ND	8.6	2109.	1.83	50.2	514.	ND	NC	323.	NC	NC
45.00	1391.	ND	8.9	2188.	1.60	36.3	385.	ND	NC	320.	NC	NC
45.15	1350.	ND	9.2	2259.	1.64	39.0	428.	ND	NC	311.	NC	NC
45.30	1329.	ND	9.6	2368.	1.33	19.8	228.	ND	NC	306.	NC	NC
45.45	1310.	ND	10.1	2493.	1.23	13.9	168.	ND	NC	301.	NC	NC
45.60	1313.	ND	10.4	2566.	1.22	13.6	170.	ND	NC	302.	NC	NC
45.75	1345.	ND	10.6	2599.	1.21	12.9	163.	ND	NC	309.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1381.	ND	10.2	2496.	1.13	8.1	98.	ND	NC	318.	NC	NC
46.05	1425.	ND	10.6	2597.	1.14	8.5	107.	ND	NC	328.	NC	NC
46.20	1460.	ND	10.9	2677.	1.16	10.8	141.	ND	NC	336.	NC	NC
46.35	1485.	ND	10.8	2663.	1.13	7.7	100.	ND	NC	342.	NC	NC
46.50	1503.	ND	10.8	2657.	1.10	6.0	77.	ND	NC	346.	NC	NC
46.65	1480.	ND	10.8	2658.	1.12	7.3	94.	ND	NC	340.	NC	NC
46.80	1409.	ND	10.7	2634.	1.09	5.5	71.	ND	NC	324.	NC	NC
46.95	1367.	ND	10.8	2659.	1.07	4.1	53.	ND	NC	314.	NC	NC
47.10	1366.	ND	10.9	2671.	1.06	3.6	46.	ND	NC	314.	NC	NC
47.25	1349.	ND	10.8	2654.	1.06	3.7	48.	ND	NC	310.	NC	NC
47.40	1327.	ND	10.9	2683.	1.07	4.2	55.	ND	NC	305.	NC	NC
47.55	1331.	ND	11.0	2699.	1.06	3.6	47.	ND	NC	306.	NC	NC
47.70	1331.	ND	11.1	2731.	1.06	3.8	50.	ND	NC	306.	NC	NC
47.85	1322.	ND	11.5	2828.	1.04	2.4	32.	ND	NC	304.	NC	NC
48.00	1298.	ND	11.5	2823.	1.06	3.4	46.	ND	NC	299.	NC	NC
48.15	1289.	ND	10.7	2643.	1.06	3.6	46.	ND	NC	296.	NC	NC
48.30	1299.	ND	9.7	2387.	1.04	2.2	25.	ND	NC	299.	NC	NC
48.45	1278.	ND	10.4	2565.	1.01	0.4	4.	ND	NC	294.	NC	NC
48.60	1283.	ND	11.1	2729.	1.01	0.8	10.	ND	NC	295.	NC	NC
48.75	1304.	ND	11.1	2728.	1.00	0.	0.	ND	NC	300.	NC	NC
48.90	1326.	ND	10.9	2688.	1.00	0.	0.	ND	NC	305.	NC	NC
49.05	1344.	ND	10.9	2672.	1.01	0.8	10.	ND	NC	309.	NC	NC
49.20	1374.	ND	10.9	2671.	1.01	0.3	4.	ND	NC	316.	NC	NC
49.35	1421.	ND	10.9	2683.	1.00	0.	0.	ND	NC	327.	NC	NC
49.50	1454.	ND	11.2	2744.	1.00	0.	0.	ND	NC	334.	NC	NC
49.65	1490.	ND	10.7	2623.	1.00	0.	0.	ND	NC	343.	NC	NC
49.80	1444.	ND	9.6	2353.	1.00	0.	0.	ND	NC	332.	NC	NC
49.95	1336.	ND	10.2	2502.	1.00	0.	0.	ND	NC	307.	NC	NC
50.10	1334.	ND	8.8	2167.	1.00	0.	0.	ND	NC	307.	NC	NC
50.25	1322.	ND	10.3	2534.	1.00	0.	0.	ND	NC	304.	NC	NC
50.40	1312.	ND	9.8	2412.	1.00	0.	0.	ND	NC	302.	NC	NC
50.55	1308.	ND	8.5	2082.	1.00	0.	0.	ND	NC	301.	NC	NC
50.70	1313.	ND	10.3	2533.	1.00	0.	0.	ND	NC	302.	NC	NC
50.85	1308.	ND	9.0	2222.	1.00	0.	0.	ND	NC	301.	NC	NC
51.00	1290.	ND	9.4	2315.	1.00	0.	0.	ND	NC	297.	NC	NC
51.15	1260.	ND	11.1	2741.	1.00	0.	0.	ND	NC	290.	NC	NC
51.30	1282.	ND	10.1	2492.	1.00	0.	0.	ND	NC	295.	NC	NC
51.45	1251.	ND	9.8	2399.	1.00	0.	0.	ND	NC	287.	NC	NC
51.60	1272.	ND	10.0	2458.	1.00	0.	0.	ND	NC	292.	NC	NC

RUN NUMBER- 36
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1287.	ND	10.1	2481.	1.00	0.	0.	ND	NC	296.	NC	NC
51.90	1297.	ND	10.2	2498.	1.00	0.	0.	ND	NC	298.	NC	NC
52.05	1342.	ND	9.2	2273.	1.00	0.	0.	ND	NC	309.	NC	NC
52.20	1380.	ND	8.8	2172.	1.00	0.	0.	ND	NC	317.	NC	NC
52.35	1409.	ND	8.7	2149.	1.00	0.	0.	ND	NC	324.	NC	NC
52.50	1480.	ND	8.7	2134.	1.00	0.	0.	ND	NC	340.	NC	NC
52.65	1431.	ND	8.1	1992.	1.00	0.	0.	ND	NC	329.	NC	NC
52.80	1376.	ND	9.7	2388.	1.00	0.	0.	ND	NC	317.	NC	NC
52.95	1356.	ND	9.9	2441.	1.00	0.	0.	ND	NC	312.	NC	NC
53.10	1323.	ND	9.4	2314.	1.00	0.	0.	ND	NC	304.	NC	NC
53.25	1297.	ND	9.3	2294.	1.00	0.	0.	ND	NC	298.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 27 78
RUN NUMBER- 37
SEGMENT NUMBER- 1
WATER DEPTH- 18 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2C
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	928.	23.1	8.9	2191.	1.04	2.4	25.	ND	NC	213.	NC	NC
0.15	953.	23.2	9.3	2293.	1.04	2.4	26.	ND	NC	219.	NC	NC
0.30	957.	23.2	9.4	2317.	1.04	2.3	26.	ND	NC	220.	NC	NC
0.45	942.	23.2	9.7	2383.	1.04	2.1	25.	ND	NC	217.	NC	NC
0.60	895.	23.2	9.7	2385.	1.02	1.4	16.	ND	NC	206.	NC	NC
0.75	869.	23.2	9.5	2336.	1.02	1.4	15.	ND	NC	200.	NC	NC
0.90	862.	23.2	9.5	2341.	1.03	1.9	22.	ND	NC	198.	NC	NC
1.05	872.	23.3	9.5	2334.	1.04	2.3	26.	ND	NC	201.	NC	NC
1.20	880.	23.3	9.2	2264.	1.04	2.2	24.	ND	NC	202.	NC	NC
1.35	911.	23.3	9.1	2229.	1.03	2.1	23.	ND	NC	210.	NC	NC
1.50	864.	23.4	8.6	2126.	1.03	2.1	22.	ND	NC	199.	NC	NC
1.65	856.	23.4	9.0	2202.	1.04	2.4	26.	ND	NC	197.	NC	NC
1.80	875.	23.4	9.4	2321.	1.04	2.5	28.	ND	NC	201.	NC	NC
1.95	900.	23.4	9.5	2336.	1.04	2.3	27.	ND	NC	207.	NC	NC
2.10	920.	23.5	9.6	2354.	1.04	2.2	25.	ND	NC	212.	NC	NC
2.25	931.	23.5	9.6	2365.	1.04	2.4	27.	ND	NC	214.	NC	NC
2.40	937.	23.6	9.5	2349.	1.04	2.4	27.	ND	NC	215.	NC	NC
2.55	937.	23.6	9.5	2349.	1.04	2.3	26.	ND	NC	216.	NC	NC
2.70	879.	23.7	9.5	2343.	1.03	2.0	23.	ND	NC	202.	NC	NC
2.85	857.	23.7	9.6	2363.	1.03	1.8	20.	ND	NC	197.	NC	NC
3.00	853.	23.8	9.5	2345.	1.05	3.1	36.	ND	NC	196.	NC	NC
3.15	859.	23.7	9.5	2346.	1.04	2.2	25.	ND	NC	198.	NC	NC
3.30	851.	23.6	9.6	2357.	1.03	2.0	23.	ND	NC	196.	NC	NC
3.45	845.	23.6	9.5	2343.	1.03	2.0	23.	ND	NC	194.	NC	NC
3.60	844.	23.5	9.5	2336.	1.04	2.2	25.	ND	NC	194.	NC	NC
3.75	858.	23.5	9.5	2337.	1.04	2.1	24.	ND	NC	197.	NC	NC
3.90	864.	23.5	9.5	2343.	1.04	2.5	28.	ND	NC	199.	NC	NC
4.05	881.	23.5	9.5	2348.	1.05	2.8	31.	ND	NC	203.	NC	NC
4.20	893.	23.5	9.5	2349.	1.04	2.2	25.	ND	NC	205.	NC	NC
4.35	908.	23.5	9.5	2349.	1.04	2.4	27.	ND	NC	209.	NC	NC
4.50	926.	23.5	9.5	2338.	1.04	2.2	24.	ND	NC	213.	NC	NC
4.65	925.	23.5	9.5	2328.	1.03	1.8	21.	ND	NC	213.	NC	NC
4.80	901.	23.5	9.5	2331.	1.02	1.5	17.	ND	NC	207.	NC	NC

RUN NUMBER -7
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	876.	23.5	9.5	2342.	1.04	2.5	29.	ND	NC	202.	NC	NC
5.10	853.	23.5	9.5	2346.	1.04	2.7	31.	ND	NC	196.	NC	NC
5.25	853.	23.5	9.5	2340.	1.04	2.3	26.	ND	NC	196.	NC	NC
5.40	857.	23.5	9.5	2338.	1.03	1.6	18.	ND	NC	197.	NC	NC
5.55	844.	23.5	9.5	2343.	1.03	1.8	21.	ND	NC	194.	NC	NC
5.70	851.	23.5	9.5	2348.	1.04	2.5	28.	ND	NC	196.	NC	NC
5.85	849.	23.5	9.6	2352.	1.04	2.5	29.	ND	NC	195.	NC	NC
6.00	844.	23.5	9.6	2355.	1.05	2.9	33.	ND	NC	194.	NC	NC
6.15	859.	23.5	9.6	2359.	1.04	2.3	26.	ND	NC	198.	NC	NC
6.30	878.	23.5	9.6	2354.	1.03	2.1	24.	ND	NC	202.	NC	NC
6.45	901.	23.6	9.5	2342.	1.03	2.1	24.	ND	NC	207.	NC	NC
6.60	928.	23.7	9.5	2339.	1.03	2.0	23.	ND	NC	213.	NC	NC
6.75	929.	23.8	9.5	2343.	1.03	1.9	21.	ND	NC	214.	NC	NC
6.90	908.	23.5	9.5	2347.	1.04	2.2	25.	ND	NC	209.	NC	NC
7.05	876.	23.2	9.5	2349.	1.04	2.4	28.	ND	NC	201.	NC	NC
7.20	848.	23.2	9.5	2349.	1.04	2.2	25.	ND	NC	195.	NC	NC
7.35	856.	25.2	9.4	2313.	1.04	2.2	25.	ND	NC	197.	NC	NC
7.50	920.	27.2	9.5	2329.	1.04	2.1	24.	ND	NC	212.	NC	NC
7.65	1077.	28.0	9.5	2347.	1.04	2.2	25.	ND	NC	248.	NC	NC
7.80	1302.	28.3	10.1	2479.	1.05	2.9	35.	ND	NC	299.	NC	NC
7.95	1454.	32.5	10.3	2541.	1.12	7.5	92.	ND	NC	334.	NC	NC
8.10	1456.	33.5	10.8	2646.	1.08	5.0	65.	ND	NC	335.	NC	NC
8.25	1456.	33.3	11.2	2744.	1.08	4.9	65.	ND	NC	335.	NC	NC
8.40	1462.	33.1	11.3	2789.	1.10	6.3	85.	ND	NC	336.	NC	NC
8.55	1499.	32.8	11.1	2733.	1.15	9.2	123.	ND	NC	345.	NC	NC
8.70	1542.	32.7	11.2	2757.	1.07	4.2	57.	ND	NC	355.	NC	NC
8.85	1594.	32.8	11.2	2767.	1.09	5.4	73.	ND	NC	367.	NC	NC
9.00	1647.	33.0	11.2	2767.	1.14	8.3	111.	ND	NC	379.	NC	NC
9.15	1655.	33.2	11.3	2778.	1.11	6.4	86.	ND	NC	381.	NC	NC
9.30	1554.	33.2	11.4	2810.	1.08	4.6	62.	ND	NC	357.	NC	NC
9.45	1520.	33.2	11.1	2742.	1.08	4.7	63.	ND	NC	350.	NC	NC
9.60	1500.	33.2	11.2	2745.	1.10	5.8	78.	ND	NC	345.	NC	NC
9.75	1488.	33.2	11.4	2801.	1.09	5.6	76.	ND	NC	342.	NC	NC
9.90	1488.	33.2	11.5	2833.	1.05	3.1	43.	ND	NC	342.	NC	NC
10.05	1493.	33.2	11.4	2802.	1.06	3.6	49.	ND	NC	343.	NC	NC
10.20	1489.	33.2	11.4	2794.	1.10	5.8	79.	ND	NC	342.	NC	NC
10.35	1447.	33.2	11.5	2832.	1.08	4.6	63.	ND	NC	333.	NC	NC
10.50	1450.	33.2	11.8	2894.	1.05	3.1	44.	ND	NC	333.	NC	NC
10.65	1490.	33.2	11.6	2864.	1.09	5.2	72.	ND	NC	343.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1534.	33.2	11.3	2786.	1.08	4.8	64.	ND	NC	353.	NC	NC
10.95	1562.	33.3	11.6	2858.	1.06	3.4	47.	ND	NC	359.	NC	NC
11.10	1610.	33.3	11.7	2882.	1.06	3.6	50.	ND	NC	370.	NC	NC
11.25	1628.	33.4	11.7	2878.	1.07	4.0	55.	ND	NC	375.	NC	NC
11.40	1589.	33.4	11.5	2832.	1.07	4.0	55.	ND	NC	366.	NC	NC
11.55	1509.	33.5	11.5	2828.	1.07	3.9	54.	ND	NC	347.	NC	NC
11.70	1509.	33.5	11.6	2844.	1.06	3.8	53.	ND	NC	347.	NC	NC
11.85	1494.	33.6	11.5	2840.	1.05	3.3	46.	ND	NC	344.	NC	NC
12.00	1497.	33.6	11.5	2816.	1.06	3.6	49.	ND	NC	344.	NC	NC
12.15	1490.	33.7	11.5	2828.	1.05	3.2	44.	ND	NC	343.	NC	NC
12.30	1482.	33.7	11.6	2864.	1.05	3.3	45.	ND	NC	341.	NC	NC
12.45	1472.	33.8	11.8	2894.	1.06	3.5	49.	ND	NC	339.	NC	NC
12.60	1459.	33.8	11.9	2931.	1.05	3.3	47.	ND	NC	336.	NC	NC
12.75	1467.	33.9	11.8	2898.	1.05	3.0	42.	ND	NC	337.	NC	NC
12.90	1503.	33.9	11.6	2849.	1.05	3.1	43.	ND	NC	346.	NC	NC
13.05	1559.	34.0	11.5	2834.	1.06	3.8	52.	ND	NC	359.	NC	NC
13.20	1593.	34.0	11.7	2869.	1.06	3.6	50.	ND	NC	366.	NC	NC
13.35	1651.	34.1	11.6	2857.	1.06	3.4	47.	ND	NC	380.	NC	NC
13.50	1588.	34.1	11.6	2855.	1.06	3.9	54.	ND	NC	365.	NC	NC
13.65	1535.	34.1	11.8	2898.	1.06	3.5	50.	ND	NC	353.	NC	NC
13.80	1524.	34.0	11.7	2889.	1.06	3.8	53.	ND	NC	350.	NC	NC
13.95	1509.	34.0	11.5	2828.	1.06	3.7	51.	ND	NC	347.	NC	NC
14.10	1476.	33.9	11.5	2828.	1.09	5.7	78.	ND	NC	339.	NC	NC
14.25	1480.	33.9	11.6	2846.	1.07	4.2	58.	ND	NC	340.	NC	NC
14.40	1483.	33.8	11.6	2865.	1.05	3.2	45.	ND	NC	341.	NC	NC
14.55	1475.	33.8	11.6	2865.	1.08	5.1	72.	ND	NC	339.	NC	NC
14.70	1462.	33.7	11.7	2877.	1.07	4.0	56.	ND	NC	336.	NC	NC
14.85	1453.	33.7	11.7	2877.	1.05	2.8	39.	ND	NC	334.	NC	NC
15.00	1486.	33.6	11.5	2837.	1.07	4.1	57.	ND	NC	342.	NC	NC
15.15	1523.	33.6	11.7	2885.	1.09	5.4	76.	ND	NC	350.	NC	NC
15.30	1564.	33.5	11.7	2878.	1.06	3.4	48.	ND	NC	360.	NC	NC
15.45	1629.	33.5	11.5	2833.	1.06	3.6	49.	ND	NC	375.	NC	NC
15.60	1615.	33.5	11.4	2814.	1.07	4.1	56.	ND	NC	372.	NC	NC
15.75	1553.	33.5	11.5	2825.	1.05	3.3	46.	ND	NC	357.	NC	NC
15.90	1506.	33.5	11.7	2881.	1.06	3.7	52.	ND	NC	346.	NC	NC
16.05	1504.	33.5	11.7	2880.	1.06	3.8	54.	ND	NC	346.	NC	NC
16.20	1511.	33.5	11.4	2813.	1.06	3.8	51.	ND	NC	348.	NC	NC
16.35	1494.	33.5	11.6	2843.	1.06	3.9	54.	ND	NC	344.	NC	NC
16.50	1492.	33.5	11.7	2878.	1.07	4.2	58.	ND	NC	343.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1481.	33.5	11.7	2886.	1.07	4.2	58.	ND	NC	341.	NC	NC
16.80	1462.	33.5	11.7	2881.	1.09	5.6	79.	ND	NC	336.	NC	NC
16.95	1464.	33.5	11.7	2871.	1.08	4.8	67.	ND	NC	337.	NC	NC
17.10	1481.	33.5	11.7	2868.	1.09	5.7	79.	ND	NC	341.	NC	NC
17.25	1497.	33.5	11.6	2862.	1.13	7.8	108.	ND	NC	344.	NC	NC
17.40	1540.	33.5	11.4	2810.	1.10	6.1	83.	ND	NC	354.	NC	NC
17.55	1577.	33.5	11.3	2786.	1.10	5.8	79.	ND	NC	363.	NC	NC
17.70	1648.	33.5	11.3	2769.	1.12	7.3	98.	ND	NC	379.	NC	NC
17.85	1580.	33.5	11.3	2779.	1.14	8.7	118.	ND	NC	363.	NC	NC
18.00	1520.	33.5	11.4	2796.	1.12	7.5	102.	ND	NC	350.	NC	NC
18.15	1510.	33.5	11.4	2815.	1.10	6.1	83.	ND	NC	347.	NC	NC
18.30	1498.	33.5	11.4	2801.	1.10	6.2	85.	ND	NC	344.	NC	NC
18.45	1492.	33.5	11.4	2803.	1.12	7.5	102.	ND	NC	343.	NC	NC
18.60	1496.	33.5	11.4	2803.	1.11	6.4	88.	ND	NC	344.	NC	NC
18.75	1477.	33.5	11.4	2811.	1.09	5.3	72.	ND	NC	340.	NC	NC
18.90	1477.	33.6	11.5	2822.	1.14	8.5	117.	ND	NC	340.	NC	NC
19.05	1449.	33.6	11.5	2838.	1.15	8.9	123.	ND	NC	333.	NC	NC
19.20	1443.	33.7	11.7	2866.	1.12	7.0	97.	ND	NC	332.	NC	NC
19.35	1486.	33.7	11.7	2871.	1.08	4.8	67.	ND	NC	342.	NC	NC
19.50	1537.	33.8	11.5	2825.	1.08	4.8	66.	ND	NC	354.	NC	NC
19.65	1576.	33.8	11.4	2798.	1.09	5.3	72.	ND	NC	362.	NC	NC
19.80	1612.	33.9	11.3	2783.	1.16	9.8	132.	ND	NC	371.	NC	NC
19.95	1667.	33.9	11.2	2759.	1.19	11.4	153.	ND	NC	383.	NC	NC
20.10	1552.	34.0	11.1	2734.	1.17	10.4	139.	ND	NC	357.	NC	NC
20.25	1509.	34.0	11.1	2719.	1.15	9.4	124.	ND	NC	347.	NC	NC
20.40	1509.	34.1	11.1	2742.	1.14	8.6	115.	ND	NC	347.	NC	NC
20.55	1497.	34.1	11.2	2742.	1.13	8.0	107.	ND	NC	344.	NC	NC
20.70	1488.	34.1	11.3	2771.	1.15	9.0	121.	ND	NC	342.	NC	NC
20.85	1476.	34.1	11.1	2731.	1.14	8.6	114.	ND	NC	340.	NC	NC
21.00	1461.	34.1	11.0	2706.	1.15	8.9	118.	ND	NC	336.	NC	NC
21.15	1456.	34.1	11.0	2717.	1.19	11.5	151.	ND	NC	335.	NC	NC
21.30	1450.	33.6	11.0	2704.	1.21	12.6	165.	ND	NC	334.	NC	NC
21.45	1459.	32.4	10.9	2686.	1.17	10.0	131.	ND	NC	336.	NC	NC
21.60	1522.	33.3	10.9	2677.	1.19	11.7	152.	ND	NC	350.	NC	NC
21.75	1586.	33.7	10.9	2688.	1.26	15.9	207.	ND	NC	365.	NC	NC
21.90	1615.	33.8	10.8	2658.	1.25	15.2	196.	ND	NC	372.	NC	NC
22.05	1677.	34.6	10.8	2650.	1.22	13.2	169.	ND	NC	386.	NC	NC
22.20	1526.	35.3	10.8	2648.	1.23	14.0	181.	ND	NC	351.	NC	NC
22.35	1514.	35.2	10.9	2681.	1.26	15.9	207.	ND	NC	348.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1508.	34.9	11.1	2730.	1.23	14.2	189.	ND	NC	347.	NC	NC
22.65	1500.	34.4	11.1	2731.	1.17	10.6	140.	ND	NC	345.	NC	NC
22.80	1482.	34.4	10.9	2674.	1.19	11.2	146.	ND	NC	341.	NC	NC
22.95	1470.	34.8	10.9	2690.	1.28	16.8	219.	ND	NC	338.	NC	NC
23.10	1471.	35.0	11.0	2705.	1.23	14.0	184.	ND	NC	338.	NC	NC
23.25	1456.	34.1	11.0	2714.	1.22	13.1	172.	ND	NC	335.	NC	NC
23.40	1435.	34.6	10.9	2675.	1.29	17.8	231.	ND	NC	330.	NC	NC
23.55	1445.	35.0	10.8	2656.	1.34	20.8	268.	ND	NC	332.	NC	NC
23.70	1481.	34.2	10.9	2673.	1.24	14.7	191.	ND	NC	341.	NC	NC
23.85	1498.	32.5	10.5	2571.	1.25	15.2	190.	ND	NC	345.	NC	NC
24.00	1566.	29.6	10.2	2500.	1.36	21.6	262.	ND	NC	360.	NC	NC
24.15	1647.	35.4	10.9	2680.	1.36	22.1	287.	ND	NC	379.	NC	NC
24.30	1617.	35.4	10.7	2641.	1.25	15.2	195.	ND	NC	372.	NC	NC
24.45	1518.	35.6	10.7	2619.	1.22	13.2	167.	ND	NC	349.	NC	NC
24.60	1509.	36.3	10.7	2630.	1.32	19.2	245.	ND	NC	347.	NC	NC
24.75	1519.	36.3	11.0	2701.	1.39	23.8	312.	ND	NC	349.	NC	NC
24.90	1470.	36.2	10.8	2663.	1.34	20.9	270.	ND	NC	338.	NC	NC
25.05	1453.	34.5	10.6	2599.	1.41	24.7	312.	ND	NC	334.	NC	NC
25.20	1461.	32.9	10.2	2504.	1.50	30.2	367.	ND	NC	336.	NC	NC
25.35	1452.	35.8	10.1	2495.	1.45	27.2	329.	ND	NC	334.	NC	NC
25.50	1454.	36.8	10.3	2529.	1.36	21.9	269.	ND	NC	334.	NC	NC
25.65	1471.	36.6	10.3	2524.	1.59	35.6	436.	ND	NC	338.	NC	NC
25.80	1492.	36.3	10.5	2587.	1.49	29.7	373.	ND	NC	343.	NC	NC
25.95	1527.	36.1	10.9	2691.	1.40	24.3	317.	ND	NC	351.	NC	NC
26.10	1617.	36.9	10.4	2568.	1.54	32.8	409.	ND	NC	372.	NC	NC
26.25	1671.	36.9	10.3	2527.	1.50	30.6	375.	ND	NC	384.	NC	NC
26.40	1693.	37.1	10.8	2649.	1.38	23.0	296.	ND	NC	389.	NC	NC
26.55	1549.	37.3	10.3	2525.	1.25	15.3	187.	ND	NC	356.	NC	NC
26.70	1508.	37.3	9.9	2436.	1.41	24.9	294.	ND	NC	347.	NC	NC
26.85	1508.	36.5	10.6	2617.	1.49	29.8	379.	ND	NC	347.	NC	NC
27.00	1494.	36.2	10.5	2585.	1.21	12.7	160.	ND	NC	344.	NC	NC
27.15	1482.	36.8	10.3	2534.	1.23	13.7	169.	ND	NC	341.	NC	NC
27.30	1486.	36.7	10.1	2472.	1.54	32.7	392.	ND	NC	342.	NC	NC
27.45	1453.	36.3	10.1	2483.	1.38	22.9	276.	ND	NC	334.	NC	NC
27.60	1428.	36.3	9.9	2442.	1.24	14.6	173.	ND	NC	328.	NC	NC
27.75	1428.	36.3	9.9	2422.	1.39	23.8	279.	ND	NC	328.	NC	NC
27.90	1473.	36.1	9.9	2439.	1.50	30.4	359.	ND	NC	339.	NC	NC
28.05	1533.	36.4	10.1	2478.	1.32	19.4	233.	ND	NC	353.	NC	NC
28.20	1602.	36.9	10.1	2472.	1.38	22.9	275.	ND	NC	369.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1669.	37.2	10.0	2468.	1.52	31.8	381.	ND	NC	384.	NC	NC
28.50	1711.	36.5	10.3	2521.	1.42	25.7	315.	ND	NC	393.	NC	NC
28.65	1630.	36.3	10.2	2499.	1.31	19.0	230.	ND	NC	375.	NC	NC
28.80	1518.	37.9	10.1	2490.	1.29	17.6	213.	ND	NC	349.	NC	NC
28.95	1503.	36.8	10.6	2598.	1.35	21.4	270.	ND	NC	346.	NC	NC
29.10	1489.	35.9	10.6	2617.	1.34	20.9	265.	ND	NC	343.	NC	NC
29.25	1478.	35.8	10.3	2522.	1.19	11.8	144.	ND	NC	340.	NC	NC
29.40	1464.	36.0	10.2	2505.	1.34	20.7	252.	ND	NC	337.	NC	NC
29.55	1444.	35.9	10.4	2561.	1.46	28.0	349.	ND	NC	332.	NC	NC
29.70	1432.	35.7	10.4	2559.	1.23	14.1	176.	ND	NC	329.	NC	NC
29.85	1431.	35.7	10.4	2549.	1.25	15.0	186.	ND	NC	329.	NC	NC
30.00	1449.	35.4	10.6	2611.	1.48	29.0	368.	ND	NC	333.	NC	NC
30.15	1491.	35.0	10.5	2591.	1.33	19.8	249.	ND	NC	343.	NC	NC
30.30	1508.	35.6	10.3	2537.	1.29	17.4	215.	ND	NC	347.	NC	NC
30.45	1602.	36.4	10.1	2490.	1.37	22.1	268.	ND	NC	369.	NC	NC
30.60	1669.	35.7	10.1	2473.	1.51	30.6	368.	ND	NC	384.	NC	NC
30.75	1631.	35.9	10.2	2514.	1.38	23.2	283.	ND	NC	375.	NC	NC
30.90	1527.	36.8	10.1	2495.	1.27	16.6	202.	ND	NC	351.	NC	NC
31.05	1497.	37.2	10.0	2464.	1.24	14.7	176.	ND	NC	344.	NC	NC
31.20	1483.	36.2	10.0	2465.	1.51	30.6	367.	ND	NC	341.	NC	NC
31.35	1463.	34.5	9.8	2419.	1.28	16.8	198.	ND	NC	336.	NC	NC
31.50	1452.	32.4	9.4	2301.	1.29	17.4	195.	ND	NC	334.	NC	NC
31.65	1443.	36.6	9.3	2297.	1.75	45.4	506.	ND	NC	332.	NC	NC
31.80	1435.	36.8	9.8	2409.	1.57	34.5	404.	ND	NC	330.	NC	NC
31.95	1414.	34.8	10.0	2465.	1.40	24.3	291.	ND	NC	325.	NC	NC
32.10	1404.	34.0	9.7	2378.	1.40	24.2	279.	ND	NC	323.	NC	NC
32.25	1492.	36.9	9.2	2270.	1.63	38.3	422.	ND	NC	343.	NC	NC
32.40	1519.	33.7	9.2	2275.	1.32	19.3	213.	ND	NC	349.	NC	NC
32.55	1524.	29.2	9.9	2427.	1.32	19.3	227.	ND	NC	350.	NC	NC
32.70	1505.	31.2	7.1	1753.	1.31	18.7	160.	ND	NC	346.	NC	NC
32.85	1733.	38.5	8.0	1977.	1.08	5.1	49.	ND	NC	399.	NC	NC
33.00	1592.	38.4	8.8	2167.	1.01	0.3	3.	ND	NC	366.	NC	NC
33.15	1497.	35.8	7.7	1882.	1.04	2.5	22.	ND	NC	344.	NC	NC
33.30	1466.	36.0	8.3	2031.	1.30	18.1	178.	ND	NC	337.	NC	NC
33.45	1492.	37.9	9.1	2241.	1.53	32.1	349.	ND	NC	343.	NC	NC
33.60	1445.	37.7	8.2	2013.	1.30	18.3	179.	ND	NC	332.	NC	NC
33.75	1428.	36.9	9.1	2248.	1.32	19.2	210.	ND	NC	328.	NC	NC
33.90	1419.	33.3	8.9	2188.	1.75	45.2	481.	ND	NC	326.	NC	NC
34.05	1410.	36.2	8.3	2031.	1.20	12.1	119.	ND	NC	324.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1409.	34.3	8.5	2099.	1.23	13.8	141.	ND	NC	324.	NC	NC
34.35	1428.	30.5	8.8	2159.	1.39	23.7	248.	ND	NC	328.	NC	NC
34.50	1430.	31.9	8.3	2053.	1.25	15.3	153.	ND	NC	329.	NC	NC
34.65	1527.	33.2	5.6	1372.	1.06	3.8	25.	ND	NC	351.	NC	NC
34.80	1715.	36.9	5.9	1442.	1.06	3.7	26.	ND	NC	394.	NC	NC
34.95	1790.	41.1	7.2	1758.	1.08	4.6	39.	ND	NC	412.	NC	NC
35.10	1729.	41.8	8.0	1969.	1.02	0.9	9.	ND	NC	398.	NC	NC
35.25	1630.	41.5	8.8	2167.	1.01	0.7	8.	ND	NC	375.	NC	NC
35.40	1546.	38.4	9.3	2275.	1.01	0.6	7.	ND	NC	356.	NC	NC
35.55	1506.	37.1	10.0	2462.	1.25	14.9	178.	ND	NC	346.	NC	NC
35.70	1492.	36.3	10.3	2536.	1.28	17.0	210.	ND	NC	343.	NC	NC
35.85	1462.	36.0	9.9	2438.	1.15	8.9	106.	ND	NC	336.	NC	NC
36.00	1431.	35.2	10.1	2495.	1.16	9.6	117.	ND	NC	329.	NC	NC
36.15	1425.	35.1	10.6	2619.	1.21	13.0	165.	ND	NC	328.	NC	NC
36.30	1345.	36.2	10.3	2529.	1.20	12.3	152.	ND	NC	309.	NC	NC
36.45	1403.	35.6	10.5	2586.	1.26	16.0	201.	ND	NC	323.	NC	NC
36.60	1463.	34.1	10.6	2613.	1.34	20.6	261.	ND	NC	336.	NC	NC
36.75	1496.	33.1	10.8	2653.	1.31	19.1	245.	ND	NC	344.	NC	NC
36.90	1544.	32.4	10.3	2534.	1.34	20.6	254.	ND	NC	355.	NC	NC
37.05	1525.	32.8	10.1	2473.	1.28	16.9	203.	ND	NC	351.	NC	NC
37.20	1627.	35.2	10.2	2497.	1.26	15.6	189.	ND	NC	374.	NC	NC
37.35	1528.	35.9	10.3	2537.	1.26	15.6	192.	ND	NC	352.	NC	NC
37.50	1485.	36.0	10.4	2555.	1.24	14.7	182.	ND	NC	342.	NC	NC
37.65	1452.	36.0	10.2	2509.	1.26	15.6	191.	ND	NC	334.	NC	NC
37.80	1455.	35.7	10.4	2560.	1.28	16.9	210.	ND	NC	335.	NC	NC
37.95	1458.	35.7	10.6	2619.	1.15	9.0	115.	ND	NC	335.	NC	NC
38.10	1449.	35.1	10.4	2557.	1.18	11.2	139.	ND	NC	333.	NC	NC
38.25	1428.	35.0	10.4	2548.	1.19	11.6	143.	ND	NC	328.	NC	NC
38.40	1412.	34.9	10.4	2563.	1.17	10.2	127.	ND	NC	325.	NC	NC
38.55	1385.	34.9	10.5	2589.	1.17	10.0	126.	ND	NC	319.	NC	NC
38.70	1420.	34.8	10.6	2617.	1.21	12.8	162.	ND	NC	327.	NC	NC
38.85	1453.	34.9	10.7	2641.	1.18	10.8	139.	ND	NC	334.	NC	NC
39.00	1505.	35.0	10.1	2495.	1.15	9.3	112.	ND	NC	346.	NC	NC
39.15	1594.	35.2	10.3	2521.	1.18	10.7	131.	ND	NC	367.	NC	NC
39.30	1632.	35.4	10.4	2555.	1.16	9.4	117.	ND	NC	375.	NC	NC
39.45	1607.	35.3	10.6	2596.	1.13	8.2	103.	ND	NC	370.	NC	NC
39.60	1494.	35.2	10.6	2611.	1.12	7.3	92.	ND	NC	344.	NC	NC
39.75	1464.	35.2	10.7	2619.	1.13	8.0	102.	ND	NC	337.	NC	NC
39.90	1457.	35.1	10.8	2649.	1.13	7.8	101.	ND	NC	335.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1459.	35.0	11.0	2694.	1.11	6.9	90.	ND	NC	336.	NC	NC
40.20	1433.	35.0	11.0	2697.	1.12	7.6	99.	ND	NC	330.	NC	NC
40.35	1428.	34.9	10.6	2609.	1.14	8.7	111.	ND	NC	328.	NC	NC
40.50	1421.	34.9	10.6	2606.	1.13	7.9	99.	ND	NC	327.	NC	NC
40.65	1412.	34.8	10.7	2627.	1.12	7.4	95.	ND	NC	325.	NC	NC
40.80	1409.	34.8	10.7	2619.	1.18	10.7	137.	ND	NC	324.	NC	NC
40.95	1472.	34.8	10.7	2641.	1.15	9.3	120.	ND	NC	338.	NC	NC
41.10	1493.	34.8	10.7	2637.	1.13	8.1	103.	ND	NC	343.	NC	NC
41.25	1514.	34.8	10.7	2632.	1.16	9.6	122.	ND	NC	348.	NC	NC
41.40	1588.	34.8	10.8	2657.	1.17	10.5	136.	ND	NC	365.	NC	NC
41.55	1636.	34.8	11.0	2715.	1.14	8.6	113.	ND	NC	376.	NC	NC
41.70	1461.	34.8	10.8	2656.	1.13	7.8	100.	ND	NC	336.	NC	NC
41.85	1447.	34.8	10.8	2646.	1.14	8.3	107.	ND	NC	333.	NC	NC
42.00	1436.	34.7	10.9	2685.	1.13	8.2	106.	ND	NC	330.	NC	NC
42.15	1428.	34.7	11.0	2695.	1.11	6.5	85.	ND	NC	328.	NC	NC
42.30	1431.	34.7	11.0	2696.	1.09	5.6	73.	ND	NC	329.	NC	NC
42.45	1429.	34.6	10.9	2680.	1.14	8.6	112.	ND	NC	329.	NC	NC
42.60	1416.	34.6	10.7	2640.	1.14	8.2	106.	ND	NC	326.	NC	NC
42.75	1397.	34.5	10.8	2665.	1.12	7.4	95.	ND	NC	321.	NC	NC
42.90	1371.	34.5	10.5	2577.	1.14	8.8	110.	ND	NC	315.	NC	NC
43.05	1408.	34.5	10.6	2597.	1.17	10.4	131.	ND	NC	324.	NC	NC
43.20	1454.	34.5	11.0	2700.	1.15	9.4	123.	ND	NC	334.	NC	NC
43.35	1505.	34.5	10.9	2672.	1.13	7.8	101.	ND	NC	346.	NC	NC
43.50	1588.	34.6	10.7	2634.	1.18	11.0	141.	ND	NC	365.	NC	NC
43.65	1613.	34.6	10.8	2651.	1.16	9.8	126.	ND	NC	371.	NC	NC
43.80	1569.	34.7	10.7	2632.	1.13	8.2	104.	ND	NC	361.	NC	NC
43.95	1484.	34.7	10.6	2600.	1.13	8.1	102.	ND	NC	341.	NC	NC
44.10	1465.	34.7	10.9	2671.	1.14	8.4	109.	ND	NC	337.	NC	NC
44.25	1458.	34.7	11.0	2711.	1.14	8.7	115.	ND	NC	335.	NC	NC
44.40	1442.	34.6	10.5	2583.	1.11	6.4	80.	ND	NC	332.	NC	NC
44.55	1434.	34.6	10.6	2616.	1.09	5.2	66.	ND	NC	330.	NC	NC
44.70	1431.	34.5	10.8	2657.	1.08	4.9	64.	ND	NC	329.	NC	NC
44.85	1421.	34.5	11.0	2706.	1.08	5.0	66.	ND	NC	327.	NC	NC
45.00	1400.	34.5	11.1	2730.	1.09	5.5	73.	ND	NC	322.	NC	NC
45.15	1422.	34.7	10.9	2691.	1.14	8.3	109.	ND	NC	327.	NC	NC
45.30	1455.	34.7	10.6	2604.	1.13	8.1	102.	ND	NC	335.	NC	NC
45.45	1490.	34.5	11.2	2750.	1.11	6.5	87.	ND	NC	343.	NC	NC
45.60	1560.	34.7	10.9	2672.	1.12	7.5	97.	ND	NC	359.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 27 78
RUN NUMBER- 37
SEGMENT NUMBER- 2
WATER DEPTH- 20 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1494.	33.8	11.0	2716.	1.11	6.5	86.	ND	NC	344.	NC	NC
0.15	1541.	33.9	10.8	2654.	1.13	7.7	99.	ND	NC	354.	NC	NC
0.30	1620.	33.9	10.6	2602.	1.12	7.5	95.	ND	NC	373.	NC	NC
0.45	1595.	33.8	10.8	2655.	1.11	6.4	83.	ND	NC	367.	NC	NC
0.60	1503.	33.7	10.8	2646.	1.09	5.4	69.	ND	NC	346.	NC	NC
0.75	1455.	33.7	10.7	2635.	1.09	5.8	74.	ND	NC	335.	NC	NC
0.90	1430.	33.6	11.0	2693.	1.09	5.6	73.	ND	NC	329.	NC	NC
1.05	1430.	33.6	11.0	2696.	1.09	5.5	72.	ND	NC	329.	NC	NC
1.20	1426.	33.6	11.0	2697.	1.09	5.2	68.	ND	NC	328.	NC	NC
1.35	1411.	33.6	10.9	2693.	1.09	5.6	73.	ND	NC	324.	NC	NC
1.50	1394.	33.7	10.9	2692.	1.12	7.1	93.	ND	NC	321.	NC	NC
1.65	1382.	33.8	11.0	2714.	1.11	6.7	88.	ND	NC	318.	NC	NC
1.80	1385.	34.0	10.8	2667.	1.12	7.0	91.	ND	NC	318.	NC	NC
1.95	1424.	34.1	10.7	2636.	1.16	9.9	127.	ND	NC	328.	NC	NC
2.10	1475.	34.1	10.8	2668.	1.14	8.6	112.	ND	NC	339.	NC	NC
2.25	1527.	34.2	10.7	2642.	1.15	9.1	117.	ND	NC	351.	NC	NC
2.40	1574.	34.3	10.6	2610.	1.18	10.9	137.	ND	NC	362.	NC	NC
2.55	1592.	34.4	10.7	2623.	1.17	10.2	130.	ND	NC	366.	NC	NC
2.70	1566.	34.4	10.8	2665.	1.16	9.6	124.	ND	NC	360.	NC	NC
2.85	1459.	34.4	10.8	2649.	1.16	9.7	125.	ND	NC	336.	NC	NC
3.00	1434.	34.4	10.7	2622.	1.16	9.9	126.	ND	NC	330.	NC	NC
3.15	1437.	34.4	11.2	2752.	1.16	9.6	129.	ND	NC	331.	NC	NC
3.30	1431.	34.4	11.2	2753.	1.15	9.2	123.	ND	NC	329.	NC	NC
3.45	1420.	34.4	11.0	2710.	1.16	9.7	127.	ND	NC	327.	NC	NC
3.60	1407.	34.4	10.8	2657.	1.20	12.1	156.	ND	NC	324.	NC	NC
3.75	1391.	34.3	10.7	2640.	1.18	11.1	142.	ND	NC	320.	NC	NC
3.90	1390.	33.9	10.7	2628.	1.19	11.2	143.	ND	NC	320.	NC	NC
4.05	1406.	33.9	10.7	2621.	1.25	15.3	195.	ND	NC	323.	NC	NC
4.20	1463.	34.2	10.7	2639.	1.25	15.1	193.	ND	NC	336.	NC	NC
4.35	1477.	34.5	10.9	2679.	1.25	14.9	194.	ND	NC	340.	NC	NC
4.50	1515.	35.2	10.8	2658.	1.27	16.4	211.	ND	NC	349.	NC	NC
4.65	1601.	35.3	10.8	2658.	1.32	19.4	250.	ND	NC	368.	NC	NC
4.80	1611.	35.2	11.1	2722.	1.29	17.8	235.	ND	NC	371.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1527.	35.7	11.0	2714.	1.25	15.2	201.	ND	NC	351.	NC	NC
5.10	1455.	35.9	10.9	2677.	1.23	13.7	178.	ND	NC	335.	NC	NC
5.25	1445.	35.3	11.0	2699.	1.28	16.7	219.	ND	NC	332.	NC	NC
5.40	1446.	34.4	11.0	2695.	1.24	14.4	189.	ND	NC	333.	NC	NC
5.55	1451.	35.1	10.7	2623.	1.24	14.3	183.	ND	NC	334.	NC	NC
5.70	1421.	35.5	10.4	2564.	1.32	19.4	242.	ND	NC	327.	NC	NC
5.85	1404.	35.3	10.6	2604.	1.31	18.9	239.	ND	NC	322.	NC	NC
6.00	1387.	35.1	10.7	2636.	1.30	18.5	236.	ND	NC	319.	NC	NC
6.15	1412.	35.3	10.8	2660.	1.36	21.9	282.	ND	NC	325.	NC	NC
6.30	1446.	35.7	10.9	2677.	1.42	25.3	329.	ND	NC	333.	NC	NC
6.45	1485.	35.6	10.9	2677.	1.38	22.8	297.	ND	NC	341.	NC	NC
6.60	1527.	35.6	10.7	2642.	1.38	23.1	297.	ND	NC	351.	NC	NC
6.75	1597.	36.4	11.2	2758.	1.45	27.3	366.	ND	NC	367.	NC	NC
6.90	1651.	36.5	11.2	2759.	1.43	25.9	347.	ND	NC	380.	NC	NC
7.05	1566.	36.7	10.8	2660.	1.35	21.4	276.	ND	NC	362.	NC	NC
7.20	1490.	37.3	10.6	2597.	1.32	19.5	246.	ND	NC	343.	NC	NC
7.35	1458.	37.2	10.6	2618.	1.35	20.9	266.	ND	NC	335.	NC	NC
7.50	1448.	36.9	10.8	2653.	1.41	24.6	317.	ND	NC	333.	NC	NC
7.65	1442.	37.0	10.6	2611.	1.36	21.7	275.	ND	NC	332.	NC	NC
7.80	1437.	37.8	10.6	2615.	1.42	25.7	326.	ND	NC	330.	NC	NC
7.95	1421.	37.8	10.8	2656.	1.49	29.5	381.	ND	NC	327.	NC	NC
8.10	1402.	37.1	10.6	2617.	1.46	27.7	352.	ND	NC	323.	NC	NC
8.25	1380.	35.6	10.5	2590.	1.44	26.8	337.	ND	NC	317.	NC	NC
8.40	1409.	36.6	10.5	2583.	1.57	34.5	432.	ND	NC	324.	NC	NC
8.55	1461.	37.7	10.7	2626.	1.61	37.0	472.	ND	NC	336.	NC	NC
8.70	1506.	36.2	10.9	2676.	1.52	31.5	410.	ND	NC	346.	NC	NC
8.85	1555.	36.3	9.9	2425.	1.45	27.0	318.	ND	NC	358.	NC	NC
9.00	1708.	38.5	10.2	2517.	1.45	27.2	333.	ND	NC	393.	NC	NC
9.15	1650.	39.4	10.5	2584.	1.55	33.5	421.	ND	NC	379.	NC	NC
9.30	1554.	38.3	10.3	2527.	1.43	25.9	317.	ND	NC	357.	NC	NC
9.45	1435.	35.1	9.9	2429.	1.39	23.5	277.	ND	NC	330.	NC	NC
9.60	1445.	40.6	9.6	2372.	1.34	20.6	237.	ND	NC	332.	NC	NC
9.75	1485.	41.0	7.4	1809.	1.14	8.3	73.	ND	NC	342.	NC	NC
9.90	1436.	39.8	7.4	1824.	1.10	6.1	54.	ND	NC	330.	NC	NC
10.05	1455.	39.3	8.4	2064.	1.32	19.6	196.	ND	NC	335.	NC	NC
10.20	1425.	39.7	9.0	2221.	1.60	36.1	389.	ND	NC	328.	NC	NC
10.35	1336.	38.2	9.7	2386.	1.57	34.6	401.	ND	NC	307.	NC	NC
10.50	1379.	36.8	10.1	2486.	1.53	32.0	387.	ND	NC	317.	NC	NC
10.65	1428.	38.3	10.3	2545.	1.59	35.6	440.	ND	NC	328.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1465.	37.5	10.5	2588.	1.56	34.0	427.	ND	NC	337.	NC	NC
10.95	1539.	29.3	9.7	2379.	1.40	24.5	283.	ND	NC	354.	NC	NC
11.10	1576.	32.6	8.7	2150.	1.34	20.6	215.	ND	NC	363.	NC	NC
11.25	1740.	40.9	9.1	2240.	1.30	18.3	199.	ND	NC	400.	NC	NC
11.40	1636.	41.1	7.3	1797.	1.10	5.8	51.	ND	NC	376.	NC	NC
11.55	1526.	39.5	7.0	1727.	1.01	0.6	5.	ND	NC	351.	NC	NC
11.70	1481.	39.6	7.1	1756.	1.14	8.4	72.	ND	NC	341.	NC	NC
11.85	1473.	39.4	8.6	2116.	1.48	29.0	297.	ND	NC	339.	NC	NC
12.00	1475.	39.1	9.1	2226.	1.34	20.4	221.	ND	NC	339.	NC	NC
12.15	1467.	39.3	8.9	2180.	1.20	12.1	128.	ND	NC	337.	NC	NC
12.30	1425.	39.0	9.6	2359.	1.37	22.6	259.	ND	NC	328.	NC	NC
12.45	1397.	37.9	10.2	2502.	1.38	22.8	277.	ND	NC	321.	NC	NC
12.60	1351.	38.5	10.3	2521.	1.32	19.6	240.	ND	NC	311.	NC	NC
12.75	1413.	38.6	10.2	2505.	1.34	20.6	251.	ND	NC	325.	NC	NC
12.90	1510.	37.8	10.3	2524.	1.46	27.7	340.	ND	NC	347.	NC	NC
13.05	1514.	37.9	10.5	2585.	1.37	22.2	279.	ND	NC	348.	NC	NC
13.20	1599.	38.3	10.1	2479.	1.27	16.3	196.	ND	NC	368.	NC	NC
13.35	1670.	38.9	10.1	2473.	1.26	15.7	188.	ND	NC	384.	NC	NC
13.50	1627.	38.0	10.2	2515.	1.37	22.7	277.	ND	NC	374.	NC	NC
13.65	1466.	36.3	9.8	2419.	1.23	13.7	161.	ND	NC	337.	NC	NC
13.80	1439.	35.3	9.2	2269.	1.20	12.2	135.	ND	NC	331.	NC	NC
13.95	1453.	39.6	8.9	2181.	1.31	18.8	199.	ND	NC	334.	NC	NC
14.10	1453.	38.1	10.4	2561.	1.39	23.8	296.	ND	NC	334.	NC	NC
14.25	1462.	37.8	9.8	2413.	1.18	11.1	130.	ND	NC	336.	NC	NC
14.40	1433.	38.1	9.5	2325.	1.29	17.5	198.	ND	NC	330.	NC	NC
14.55	1409.	37.9	10.0	2450.	1.44	26.7	317.	ND	NC	324.	NC	NC
14.70	1390.	36.7	10.2	2515.	1.29	17.5	213.	ND	NC	320.	NC	NC
14.85	1378.	35.9	9.8	2402.	1.20	12.1	141.	ND	NC	317.	NC	NC
15.00	1462.	37.7	9.9	2423.	1.33	19.8	233.	ND	NC	336.	NC	NC
15.15	1514.	37.5	10.3	2523.	1.33	20.3	248.	ND	NC	348.	NC	NC
15.30	1537.	37.3	10.1	2479.	1.24	14.4	173.	ND	NC	353.	NC	NC
15.45	1632.	37.5	9.8	2413.	1.17	10.6	124.	ND	NC	375.	NC	NC
15.60	1668.	38.0	9.5	2346.	1.25	15.1	173.	ND	NC	384.	NC	NC
15.75	1498.	37.6	10.1	2475.	1.31	18.6	223.	ND	NC	345.	NC	NC
15.90	1469.	37.9	9.9	2441.	1.18	10.9	129.	ND	NC	338.	NC	NC
16.05	1456.	38.4	9.4	2319.	1.15	9.1	103.	ND	NC	335.	NC	NC
16.20	1455.	38.2	10.1	2474.	1.39	23.4	281.	ND	NC	335.	NC	NC
16.35	1452.	37.9	10.3	2543.	1.31	19.0	234.	ND	NC	334.	NC	NC
16.50	1433.	37.0	9.8	2411.	1.21	12.5	146.	ND	NC	330.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1420.	37.0	9.8	2412.	1.33	19.7	231.	ND	NC	327.	NC	NC
16.80	1416.	36.6	10.7	2627.	1.35	21.2	270.	ND	NC	326.	NC	NC
16.95	1367.	35.9	9.9	2428.	1.15	9.3	110.	ND	NC	314.	NC	NC
17.10	1413.	37.0	9.9	2441.	1.17	10.4	123.	ND	NC	325.	NC	NC
17.25	1475.	37.0	10.5	2584.	1.42	25.3	317.	ND	NC	339.	NC	NC
17.40	1521.	35.3	10.7	2639.	1.43	26.2	335.	ND	NC	350.	NC	NC
17.55	1561.	34.0	10.3	2541.	1.34	20.4	251.	ND	NC	359.	NC	NC
17.70	1648.	36.8	10.3	2539.	1.30	18.2	225.	ND	NC	379.	NC	NC
17.85	1618.	39.0	10.7	2633.	1.49	29.5	377.	ND	NC	372.	NC	NC
18.00	1498.	38.6	10.6	2608.	1.47	28.3	358.	ND	NC	345.	NC	NC
18.15	1416.	33.5	9.1	2226.	1.29	17.4	188.	ND	NC	326.	NC	NC
18.30	1420.	36.1	8.3	2049.	1.21	12.7	126.	ND	NC	326.	NC	NC
18.45	1439.	40.1	7.2	1765.	1.02	1.5	13.	ND	NC	331.	NC	NC
18.60	1450.	39.1	7.7	1883.	1.01	0.6	5.	ND	NC	333.	NC	NC
18.75	1449.	38.4	7.8	1909.	1.01	0.6	6.	ND	NC	333.	NC	NC
18.90	1444.	37.5	7.9	1941.	1.33	20.2	190.	ND	NC	332.	NC	NC
19.05	1377.	37.0	9.5	2333.	1.51	30.6	347.	ND	NC	317.	NC	NC
19.20	1306.	37.4	9.6	2350.	1.33	20.0	228.	ND	NC	300.	NC	NC
19.35	1428.	37.7	9.6	2352.	1.39	23.8	272.	ND	NC	328.	NC	NC
19.50	1493.	35.9	10.4	2546.	1.46	28.0	346.	ND	NC	343.	NC	NC
19.65	1528.	35.8	9.9	2440.	1.32	19.7	233.	ND	NC	351.	NC	NC
19.80	1633.	36.8	9.6	2349.	1.24	14.8	169.	ND	NC	376.	NC	NC
19.95	1630.	38.0	9.8	2410.	1.23	14.0	164.	ND	NC	375.	NC	NC
20.10	1555.	36.6	10.1	2485.	1.32	19.3	233.	ND	NC	358.	NC	NC
20.25	1480.	37.1	10.2	2502.	1.17	10.1	122.	ND	NC	340.	NC	NC
20.40	1470.	37.4	10.0	2465.	1.12	7.4	88.	ND	NC	338.	NC	NC
20.55	1443.	35.8	10.3	2531.	1.27	16.5	202.	ND	NC	332.	NC	NC
20.70	1436.	35.0	10.7	2643.	1.29	17.7	228.	ND	NC	330.	NC	NC
20.85	1431.	35.1	10.3	2522.	1.15	8.8	108.	ND	NC	329.	NC	NC
21.00	1417.	36.0	9.9	2447.	1.19	11.6	137.	ND	NC	326.	NC	NC
21.15	1382.	35.9	10.6	2618.	1.33	20.2	257.	ND	NC	318.	NC	NC
21.30	1374.	35.6	10.1	2494.	1.16	9.8	118.	ND	NC	316.	NC	NC
21.45	1393.	35.6	10.1	2489.	1.13	7.6	92.	ND	NC	320.	NC	NC
21.60	1457.	36.0	10.7	2628.	1.29	17.3	221.	ND	NC	335.	NC	NC
21.75	1509.	34.9	10.3	2526.	1.18	10.8	133.	ND	NC	347.	NC	NC
21.90	1554.	34.2	9.7	2393.	1.12	7.3	85.	ND	NC	357.	NC	NC
22.05	1617.	34.9	9.8	2407.	1.12	7.0	82.	ND	NC	372.	NC	NC
22.20	1586.	37.2	10.4	2549.	1.15	9.1	112.	ND	NC	365.	NC	NC
22.35	1490.	36.6	10.4	2569.	1.13	7.8	98.	ND	NC	343.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1465.	35.4	10.1	2476.	1.09	5.6	67.	ND	NC	337.	NC	NC
22.65	1449.	35.2	10.2	2517.	1.06	3.6	44.	ND	NC	333.	NC	NC
22.80	1438.	35.4	10.3	2540.	1.14	8.4	104.	ND	NC	331.	NC	NC
22.95	1429.	35.3	10.4	2560.	1.12	7.3	91.	ND	NC	329.	NC	NC
23.10	1419.	35.2	10.5	2581.	1.07	4.1	51.	ND	NC	326.	NC	NC
23.25	1400.	35.1	10.3	2541.	1.13	7.7	95.	ND	NC	322.	NC	NC
23.40	1393.	35.0	10.2	2511.	1.14	8.4	103.	ND	NC	320.	NC	NC
23.55	1387.	34.9	10.1	2496.	1.10	6.3	76.	ND	NC	319.	NC	NC
23.70	1418.	34.9	10.5	2591.	1.13	8.0	101.	ND	NC	326.	NC	NC
23.85	1477.	34.9	10.6	2599.	1.17	10.3	130.	ND	NC	340.	NC	NC
24.00	1526.	34.9	10.3	2528.	1.15	9.4	115.	ND	NC	351.	NC	NC
24.15	1589.	34.9	9.9	2429.	1.12	7.1	84.	ND	NC	366.	NC	NC
24.30	1577.	34.9	10.7	2621.	1.15	8.9	113.	ND	NC	363.	NC	NC
24.45	1496.	34.9	10.5	2574.	1.17	10.0	125.	ND	NC	344.	NC	NC
24.60	1449.	34.9	10.2	2515.	1.15	8.9	108.	ND	NC	333.	NC	NC
24.75	1446.	35.0	10.2	2514.	1.13	7.9	97.	ND	NC	333.	NC	NC
24.90	1452.	35.1	10.5	2589.	1.21	12.9	162.	ND	NC	334.	NC	NC
25.05	1440.	35.2	10.6	2601.	1.21	12.5	157.	ND	NC	331.	NC	NC
25.20	1426.	35.3	10.2	2509.	1.20	11.9	146.	ND	NC	328.	NC	NC
25.35	1415.	35.4	10.0	2470.	1.20	12.3	147.	ND	NC	325.	NC	NC
25.50	1398.	35.5	10.7	2627.	1.27	16.3	208.	ND	NC	322.	NC	NC
25.65	1383.	35.6	10.7	2633.	1.29	17.3	221.	ND	NC	318.	NC	NC
25.80	1399.	35.7	10.9	2675.	1.29	17.5	227.	ND	NC	322.	NC	NC
25.95	1453.	35.7	11.1	2718.	1.32	19.7	260.	ND	NC	334.	NC	NC
26.10	1506.	35.6	11.2	2745.	1.32	19.6	261.	ND	NC	346.	NC	NC
26.25	1562.	35.9	11.1	2741.	1.31	18.6	248.	ND	NC	359.	NC	NC
26.40	1668.	36.0	10.6	2597.	1.32	19.1	241.	ND	NC	384.	NC	NC
26.55	1405.	31.1	9.8	2413.	1.31	18.5	217.	ND	NC	323.	NC	NC
26.70	1411.	34.5	9.6	2354.	1.29	17.9	204.	ND	NC	325.	NC	NC
26.85	1432.	37.6	10.0	2453.	1.29	17.7	210.	ND	NC	329.	NC	NC
27.00	1432.	37.0	10.2	2515.	1.32	19.5	238.	ND	NC	329.	NC	NC
27.15	1434.	37.3	10.5	2575.	1.33	20.3	254.	ND	NC	330.	NC	NC
27.30	1438.	37.3	11.0	2694.	1.51	30.7	401.	ND	NC	331.	NC	NC
27.45	1434.	37.3	11.0	2717.	1.42	25.6	337.	ND	NC	330.	NC	NC
27.60	1403.	37.3	10.7	2620.	1.41	24.9	317.	ND	NC	323.	NC	NC
27.75	1382.	37.1	10.6	2610.	1.41	24.6	311.	ND	NC	318.	NC	NC
27.90	1363.	36.6	10.6	2599.	1.41	25.1	317.	ND	NC	313.	NC	NC
28.05	1410.	37.4	10.9	2673.	1.43	26.2	340.	ND	NC	324.	NC	NC
28.20	1457.	38.0	11.0	2707.	1.45	27.4	359.	ND	NC	335.	NC	NC

RUN NUMBER- 57
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1525.	37.4	10.6	2610.	1.41	25.0	317.	ND	NC	351.	NC	NC
28.50	1676.	38.0	10.5	2589.	1.33	19.8	248.	ND	NC	385.	NC	NC
28.65	1642.	38.1	10.3	2544.	1.30	18.2	224.	ND	NC	378.	NC	NC
28.80	1554.	38.2	10.4	2556.	1.30	17.9	223.	ND	NC	357.	NC	NC
28.95	1456.	38.3	10.7	2641.	1.29	17.6	225.	ND	NC	335.	NC	NC
29.10	1464.	38.4	10.6	2618.	1.26	16.0	203.	ND	NC	337.	NC	NC
29.25	1454.	38.5	10.2	2585.	1.29	17.3	210.	ND	NC	334.	NC	NC
29.40	1442.	38.6	10.4	2568.	1.29	17.6	220.	ND	NC	332.	NC	NC
29.55	1428.	38.7	10.5	2576.	1.26	15.8	198.	ND	NC	328.	NC	NC
29.70	1416.	38.7	10.3	2535.	1.35	21.3	263.	ND	NC	326.	NC	NC
29.85	1394.	38.7	10.5	2585.	1.38	23.1	290.	ND	NC	321.	NC	NC
30.00	1369.	38.7	10.5	2593.	1.41	24.6	310.	ND	NC	315.	NC	NC
30.15	1396.	38.7	10.5	2594.	1.42	25.2	318.	ND	NC	321.	NC	NC
30.30	1470.	38.7	10.7	2641.	1.42	25.3	324.	ND	NC	338.	NC	NC
30.45	1522.	38.9	10.9	2684.	1.42	25.7	334.	ND	NC	350.	NC	NC
30.60	1600.	38.4	10.7	2643.	1.43	26.3	338.	ND	NC	368.	NC	NC
30.75	1683.	38.3	10.5	2583.	1.37	22.2	279.	ND	NC	387.	NC	NC
30.9[illegible]	1673.	39.7	10.2	2512.	1.31	18.8	229.	ND	NC	385.	NC	NC
31.05	1546.	40.3	10.3	2523.	1.39	23.4	286.	ND	NC	356.	NC	NC
31.2[illegible]	1469.	40.3	10.6	2610.	1.42	25.4	322.	ND	NC	338.	NC	NC
31.35	1458.	40.3	10.3	2447.	1.28	17.3	205.	ND	NC	335.	NC	NC
31.5[illegible]	1452.	40.3	9.6	2351.	1.32	19.2	220.	ND	NC	334.	NC	NC
31.65	1437.	39.9	10.2	2513.	1.39	23.9	292.	ND	NC	331.	NC	NC
31.80	1441.	39.6	10.8	2651.	1.37	22.5	290.	ND	NC	331.	NC	NC
31.95	1431.	39.6	10.1	2482.	1.37	22.5	271.	ND	NC	329.	NC	NC
32.10	1392.	40.1	10.7	2621.	1.47	28.6	364.	ND	NC	329.	NC	NC
32.25	1387.	39.2	10.9	2673.	1.48	29.3	381.	ND	NC	319.	NC	NC
32.40	1408.	39.2	10.6	2618.	1.36	21.6	275.	ND	NC	324.	NC	NC
32.55	1495.	39.2	10.7	2623.	1.39	23.5	299.	ND	NC	344.	NC	NC
32.70	1555.	39.3	10.7	2622.	1.39	23.5	300.	ND	NC	358.	NC	NC
32.85	1595.	39.4	10.4	2561.	1.33	19.9	248.	ND	NC	367.	NC	NC
33.00	1697.	39.5	10.1	2486.	1.25	15.4	186.	ND	NC	390.	NC	NC
33.15	1557.	39.7	9.9	2443.	1.31	18.5	220.	ND	NC	358.	NC	NC
33.30	1456.	39.8	10.6	2612.	1.37	22.6	287.	ND	NC	335.	NC	NC
33.45	1458.	39.7	10.3	2533.	1.30	18.1	222.	ND	NC	335.	NC	NC
33.60	1447.	40.2	10.0	2456.	1.24	14.7	175.	ND	NC	333.	NC	NC
33.75	1433.	39.2	10.1	2495.	1.42	25.7	311.	ND	NC	330.	NC	NC
33.90	1430.	38.8	10.3	2530.	1.36	21.7	266.	ND	NC	329.	NC	NC
34.05	1431.	39.0	10.0	2459.	1.29	17.4	208.	ND	NC	329.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1401.	39.3	10.1	2487.	1.37	22.6	272.	ND	NC	322.	NC	NC
34.35	1389.	38.9	10.7	2630.	1.41	25.1	321.	ND	NC	320.	NC	NC
34.50	1377.	38.6	10.2	2515.	1.32	19.1	233.	ND	NC	317.	NC	NC
34.65	1448.	38.6	10.1	2485.	1.31	18.6	225.	ND	NC	333.	NC	NC
34.80	1533.	38.7	10.1	2486.	1.34	20.9	252.	ND	NC	353.	NC	NC
34.95	1610.	38.4	10.3	2521.	1.36	21.7	265.	ND	NC	370.	NC	NC
35.10	1678.	38.5	10.3	2528.	1.26	15.7	193.	ND	NC	386.	NC	NC
35.25	1602.	39.2	10.2	2509.	1.20	12.0	147.	ND	NC	368.	NC	NC
35.40	1474.	38.7	10.4	2555.	1.30	17.9	222.	ND	NC	339.	NC	NC
35.55	1452.	38.3	10.4	2557.	1.28	17.0	210.	ND	NC	334.	NC	NC
35.70	1420.	37.8	10.2	2509.	1.25	15.0	183.	ND	NC	327.	NC	NC
35.85	1427.	37.6	9.8	2422.	1.29	17.5	206.	ND	NC	328.	NC	NC
36.00	1444.	37.7	10.3	2522.	1.28	16.7	205.	ND	NC	332.	NC	NC
36.15	1408.	37.2	9.3	2295.	1.18	10.9	122.	ND	NC	324.	NC	NC
36.30	1396.	37.1	9.5	2330.	1.28	17.2	195.	ND	NC	321.	NC	NC
36.45	1364.	37.6	10.4	2562.	1.45	27.1	337.	ND	NC	314.	NC	NC
36.60	1373.	37.3	11.0	2704.	1.43	26.3	345.	ND	NC	316.	NC	NC
36.75	1414.	37.9	10.9	2686.	1.42	25.3	330.	ND	NC	325.	NC	NC
36.90	1468.	39.4	10.8	2660.	1.47	28.6	370.	ND	NC	338.	NC	NC
37.05	1560.	37.1	10.7	2630.	1.48	29.3	373.	ND	NC	359.	NC	NC
37.20	1623.	37.3	11.0	2709.	1.38	22.8	300.	ND	NC	373.	NC	NC
37.35	1694.	39.4	10.4	2550.	1.29	17.5	216.	ND	NC	390.	NC	NC
37.50	1524.	40.3	10.1	2482.	1.24	14.6	177.	ND	NC	351.	NC	NC
37.65	1451.	38.4	10.4	2546.	1.40	24.3	300.	ND	NC	334.	NC	NC
37.80	1437.	36.5	10.2	2502.	1.31	18.6	226.	ND	NC	330.	NC	NC
37.95	1441.	39.9	9.9	2440.	1.30	18.5	219.	ND	NC	331.	NC	NC
38.10	1433.	38.4	10.8	2646.	1.51	30.6	393.	ND	NC	330.	NC	NC
38.25	1423.	36.8	10.9	2684.	1.30	18.2	238.	ND	NC	327.	NC	NC
38.40	1417.	36.2	10.2	2501.	1.15	9.3	113.	ND	NC	326.	NC	NC
38.55	1375.	36.0	10.4	2566.	1.17	10.5	131.	ND	NC	316.	NC	NC
38.70	1363.	36.2	10.3	2536.	1.18	11.0	136.	ND	NC	314.	NC	NC
38.85	1369.	36.4	10.3	2537.	1.11	6.7	82.	ND	NC	315.	NC	NC
39.00	1413.	36.3	10.6	2599.	1.10	5.9	74.	ND	NC	325.	NC	NC
39.15	1492.	36.0	10.7	2620.	1.13	7.7	97.	ND	NC	343.	NC	NC
39.30	1561.	35.8	10.6	2610.	1.09	5.2	66.	ND	NC	359.	NC	NC
39.45	1578.	35.9	10.6	2606.	1.07	4.2	53.	ND	NC	363.	NC	NC
39.60	1568.	36.1	10.6	2617.	1.08	4.6	59.	ND	NC	361.	NC	NC
39.75	1442.	36.1	10.7	2622.	1.08	4.7	60.	ND	NC	332.	NC	NC
39.90	1427.	36.1	10.6	2614.	1.07	4.0	51.	ND	NC	329.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1404.	35.4	10.8	2649.	1.05	3.2	41.	ND	NC	323.	NC	NC
40.20	1398.	34.9	10.7	2641.	1.05	3.2	41.	ND	NC	321.	NC	NC
40.35	1405.	34.8	10.7	2625.	1.08	4.7	60.	ND	NC	323.	NC	NC
40.50	1410.	34.5	10.6	2608.	1.06	3.9	49.	ND	NC	324.	NC	NC
40.65	1398.	32.8	10.4	2570.	1.05	3.3	41.	ND	NC	321.	NC	NC
40.80	1290.	30.0	9.9	2439.	1.07	4.1	49.	ND	NC	297.	NC	NC
40.95	1155.	29.0	9.6	2353.	1.06	3.7	42.	ND	NC	266.	NC	NC
41.10	1089.	29.7	9.8	2413.	1.06	3.4	40.	ND	NC	250.	NC	NC
41.25	975.	26.8	10.1	2478.	1.07	4.1	49.	ND	NC	224.	NC	NC
41.40	1017.	27.0	9.4	2319.	1.07	4.2	47.	ND	NC	234.	NC	NC
41.55	1036.	27.1	9.2	2272.	1.06	3.8	42.	ND	NC	238.	NC	NC
41.70	1020.	26.8	9.7	2374.	1.06	3.6	41.	ND	NC	235.	NC	NC
41.85	969.	26.2	9.5	2341.	1.05	3.3	37.	ND	NC	223.	NC	NC
42.00	941.	26.3	9.8	2399.	1.06	3.6	42.	ND	NC	216.	NC	NC
42.15	935.	26.8	9.5	2345.	1.05	3.2	37.	ND	NC	215.	NC	NC
42.30	931.	26.1	9.4	2315.	1.05	2.9	33.	ND	NC	214.	NC	NC
42.45	965.	22.4	9.4	2302.	1.05	2.8	31.	ND	NC	222.	NC	NC
42.60	782.	24.1	8.9	2192.	1.05	3.2	34.	ND	NC	180.	NC	NC
42.75	752.	25.1	9.0	2206.	1.05	2.9	31.	ND	NC	173.	NC	NC
42.90	699.	23.4	9.2	2274.	1.04	2.7	29.	ND	NC	161.	NC	NC
43.05	686.	22.2	8.8	2168.	1.05	3.2	34.	ND	NC	158.	NC	NC
43.20	704.	21.9	8.9	2179.	1.06	3.3	35.	ND	NC	162.	NC	NC
43.35	720.	22.1	8.9	2197.	1.05	3.0	32.	ND	NC	166.	NC	NC
43.50	742.	22.1	8.9	2183.	1.05	2.8	30.	ND	NC	171.	NC	NC
43.65	762.	22.1	8.8	2153.	1.05	3.0	31.	ND	NC	175.	NC	NC
43.80	768.	22.1	8.8	2169.	1.05	3.1	32.	ND	NC	177.	NC	NC
43.95	725.	22.1	8.7	2147.	1.04	2.7	28.	ND	NC	167.	NC	NC
44.10	662.	22.4	8.7	2145.	1.04	2.5	26.	ND	NC	152.	NC	NC
44.25	664.	22.6	8.6	2127.	1.04	2.5	26.	ND	NC	153.	NC	NC
44.40	671.	22.3	8.6	2105.	1.04	2.5	25.	ND	NC	154.	NC	NC
44.55	680.	21.9	8.8	2172.	1.05	2.8	29.	ND	NC	156.	NC	NC
44.70	679.	22.0	8.7	2144.	1.05	2.8	29.	ND	NC	156.	NC	NC
44.85	675.	22.2	8.6	2108.	1.04	2.6	27.	ND	NC	155.	NC	NC
45.00	669.	22.2	8.6	2110.	1.04	2.5	26.	ND	NC	154.	NC	NC
45.15	659.	22.2	8.7	2150.	1.04	2.6	27.	ND	NC	152.	NC	NC
45.30	679.	22.1	8.7	2139.	1.04	2.7	28.	ND	NC	156.	NC	NC
45.45	699.	22.0	8.6	2114.	1.04	2.4	24.	ND	NC	161.	NC	NC
45.60	715.	22.2	8.9	2179.	1.04	2.3	24.	ND	NC	164.	NC	NC
45.75	751.	22.3	8.9	2189.	1.04	2.5	26.	ND	NC	173.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	761.	22.3	8.6	2126.	1.04	2.4	25.	ND	NC	175.	NC	NC
46.05	756.	22.2	8.9	2187.	1.04	2.3	24.	ND	NC	174.	NC	NC
46.20	682.	22.1	9.0	2206.	1.04	2.3	25.	ND	NC	157.	NC	NC
46.35	612.	22.0	9.0	2201.	1.05	2.8	30.	ND	NC	141.	NC	NC
46.50	587.	21.2	8.7	2143.	1.04	2.4	25.	ND	NC	135.	NC	NC
46.65	606.	17.2	8.4	2067.	1.04	2.4	24.	ND	NC	139.	NC	NC
46.80	575.	17.1	8.0	1957.	1.04	2.2	21.	ND	NC	132.	NC	NC
46.95	525.	16.9	7.4	1832.	1.04	2.2	19.	ND	NC	121.	NC	NC
47.10	178.	8.8	6.9	1692.	1.04	2.2	18.	ND	NC	41.	NC	NC
47.25	32.	5.3	5.3	1294.	1.03	2.0	12.	ND	NC	7.	NC	NC
47.40	42.	4.4	3.5	869.	1.03	1.8	8.	ND	NC	10.	NC	NC
47.55	53.	3.8	3.0	732.	1.03	1.6	6.	ND	NC	12.	NC	NC
47.70	63.	3.3	2.2	541.	1.03	2.1	6.	ND	NC	14.	NC	NC
47.85	70.	3.0	2.0	480.	1.04	2.2	5.	ND	NC	16.	NC	NC
48.00	88.	3.1	1.7	417.	1.04	2.2	4.	ND	NC	20.	NC	NC
48.15	76.	3.3	1.5	364.	1.03	2.0	3.	ND	NC	17.	NC	NC
48.30	54.	3.3	1.5	369.	1.03	1.7	3.	ND	NC	12.	NC	NC
48.45	21.	3.2	1.2	294.	1.03	1.9	3.	ND	NC	5.	NC	NC
48.60	-2.	2.7	1.2	286.	1.04	2.3	3.	ND	NC	-1.	NC	NC
48.75	1.	2.8	0.9	232.	1.03	2.0	2.	ND	NC	0.	NC	NC
48.90	20.	3.0	0.9	218.	1.03	1.9	2.	ND	NC	5.	NC	NC
49.05	44.	3.0	0.8	205.	1.03	1.9	2.	ND	NC	10.	NC	NC
49.20	20.	3.2	0.8	192.	1.03	1.8	2.	ND	NC	5.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 27 78
RUN NUMBER- 37
SEGMENT NUMBER- 3
WATER DEPTH- 24 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2?
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1291.	39.2	8.8	2174.	1.21	12.5	132.	ND	NC	297.	NC	NC
0.15	1350.	40.2	8.2	2017.	1.23	13.7	134.	ND	NC	311.	NC	NC
0.30	1404.	40.1	9.0	2222.	1.23	14.0	151.	ND	NC	323.	NC	NC
0.45	1451.	39.0	9.6	2369.	1.27	16.5	190.	ND	NC	334.	NC	NC
0.60	1541.	38.8	9.1	2226.	1.16	9.5	103.	ND	NC	354.	NC	NC
0.75	1658.	38.9	9.0	2221.	1.10	6.1	66.	ND	NC	381.	NC	NC
0.90	1582.	39.1	9.5	2339.	1.21	12.8	146.	ND	NC	364.	NC	NC
1.05	1506.	38.6	9.9	2424.	1.23	13.7	161.	ND	NC	346.	NC	NC
1.20	1383.	40.9	8.7	2143.	1.14	8.3	86.	ND	NC	318.	NC	NC
1.35	1383.	40.8	8.6	2104.	1.15	9.0	92.	ND	NC	318.	NC	NC
1.50	1368.	39.7	9.4	2313.	1.24	14.4	161.	ND	NC	315.	NC	NC
1.65	1358.	39.2	9.3	2277.	1.23	13.7	151.	ND	NC	312.	NC	NC
1.80	1360.	39.7	8.7	2129.	1.13	7.9	81.	ND	NC	313.	NC	NC
1.95	1333.	38.7	9.1	2242.	1.23	13.8	150.	ND	NC	307.	NC	NC
2.10	1296.	38.0	9.2	2258.	1.25	15.4	169.	ND	NC	298.	NC	NC
2.25	1302.	38.2	8.8	2152.	1.13	7.7	81.	ND	NC	299.	NC	NC
2.40	1326.	38.0	8.5	2095.	1.16	9.5	97.	ND	NC	305.	NC	NC
2.55	1381.	38.0	8.9	2199.	1.18	10.9	116.	ND	NC	318.	NC	NC
2.70	1442.	38.5	8.6	2106.	1.14	8.2	84.	ND	NC	332.	NC	NC
2.85	1475.	39.0	8.4	2077.	1.10	5.9	59.	ND	NC	339.	NC	NC
3.00	1538.	38.5	9.3	2287.	1.09	5.7	64.	ND	NC	354.	NC	NC
3.15	1591.	37.9	9.8	2418.	1.15	9.0	106.	ND	NC	366.	NC	NC
3.30	1489.	37.7	9.7	2398.	1.13	7.9	92.	ND	NC	343.	NC	NC
3.45	1382.	37.8	9.9	2427.	1.06	3.9	46.	ND	NC	318.	NC	NC
3.60	1380.	38.0	10.2	2501.	1.11	6.4	78.	ND	NC	317.	NC	NC
3.75	1382.	37.7	10.0	2470.	1.14	8.6	103.	ND	NC	318.	NC	NC
3.90	1347.	37.3	9.7	2392.	1.08	5.0	58.	ND	NC	310.	NC	NC
4.05	1349.	37.3	9.8	2402.	1.08	4.7	55.	ND	NC	310.	NC	NC
4.20	1334.	37.4	9.9	2443.	1.11	6.8	80.	ND	NC	307.	NC	NC
4.35	1321.	36.9	9.9	2425.	1.15	9.3	110.	ND	NC	304.	NC	NC
4.50	1301.	36.8	9.6	2349.	1.11	6.4	73.	ND	NC	299.	NC	NC
4.65	1304.	36.6	9.7	2374.	1.16	9.8	113.	ND	NC	300.	NC	NC
4.80	1335.	36.3	10.2	2517.	1.23	14.0	171.	ND	NC	307.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1368.	37.0	10.0	2467.	1.17	10.5	126.	ND	NC	315.	NC	NC
5.10	1406.	36.6	10.0	2457.	1.15	9.0	108.	ND	NC	323.	NC	NC
5.25	1463.	36.8	10.5	2580.	1.19	11.5	144.	ND	NC	337.	NC	NC
5.40	1561.	36.5	10.2	2519.	1.19	11.2	137.	ND	NC	359.	NC	NC
5.55	1559.	35.7	9.9	2435.	1.14	8.7	103.	ND	NC	359.	NC	NC
5.70	1438.	36.1	10.5	2576.	1.12	7.0	88.	ND	NC	3[illegible].	NC	NC
5.85	1373.	36.5	10.6	2609.	1.16	9.7	122.	ND	NC	316.	NC	NC
6.00	1346.	36.9	10.3	2526.	1.20	11.8	145.	ND	NC	309.	NC	NC
6.15	1350.	36.4	10.3	2524.	1.16	9.8	120.	ND	NC	310.	NC	NC
6.30	1352.	36.9	10.5	2570.	1.18	11.2	139.	ND	NC	311.	NC	NC
6.45	1341.	36.6	10.7	2641.	1.28	16.7	215.	ND	NC	308.	NC	NC
6.60	1315.	36.3	10.6	2612.	1.23	14.1	179.	ND	NC	302.	NC	NC
6.75	1298.	37.0	10.2	2497.	1.30	17.9	217.	ND	NC	299.	NC	NC
6.90	1298.	37.4	10.5	2581.	1.37	22.7	284.	ND	NC	299.	NC	NC
7.05	1311.	37.4	10.9	2690.	1.43	26.1	341.	ND	NC	301.	NC	NC
7.20	1348.	36.7	10.6	2618.	1.32	19.3	246.	ND	NC	310.	NC	NC
7.35	1449.	37.5	10.5	2578.	1.38	22.8	286.	ND	NC	333.	NC	NC
7.50	1496.	38.2	10.9	2674.	1.49	29.7	386.	ND	NC	344.	NC	NC
7.65	1557.	38.2	10.9	2680.	1.44	26.6	346.	ND	NC	358.	NC	NC
7.80	1609.	38.2	10.3	2529.	1.33	19.7	242.	ND	NC	370.	NC	NC
7.95	1505.	39.4	10.1	2493.	1.40	24.4	296.	ND	NC	346.	NC	NC
8.10	1389.	39.1	10.6	2613.	1.46	27.7	351.	ND	NC	319.	NC	NC
8.25	1393.	38.9	10.5	2592.	1.51	31.1	391.	ND	NC	320.	NC	NC
8.40	1383.	39.4	10.0	2458.	1.57	34.6	413.	ND	NC	318.	NC	NC
8.55	1361.	40.5	10.4	2564.	1.62	37.6	468.	ND	NC	313.	NC	NC
8.70	1376.	38.7	10.7	2622.	1.51	30.7	391.	ND	NC	317.	NC	NC
8.85	1354.	39.5	10.4	2568.	1.39	23.9	298.	ND	NC	311.	NC	NC
9.00	1334.	39.3	10.4	2546.	1.46	27.6	342.	ND	NC	307.	NC	NC
9.15	1328.	39.5	10.5	2578.	1.66	40.2	503.	ND	NC	306.	NC	NC
9.30	1317.	38.9	10.7	2636.	1.49	29.5	377.	ND	NC	303.	NC	NC
9.45	1339.	38.9	10.6	2614.	1.42	25.4	323.	ND	NC	308.	NC	NC
9.60	1421.	40.3	10.4	2561.	1.44	26.5	330.	ND	NC	327.	NC	NC
9.75	1478.	39.9	10.2	2519.	1.49	29.8	355.	ND	NC	340.	NC	NC
9.90	1547.	39.7	10.5	2590.	1.44	26.4	332.	ND	NC	356.	NC	NC
10.05	1629.	40.8	9.9	2438.	1.26	15.8	187.	ND	NC	375.	NC	NC
10.20	1543.	41.5	10.0	2468.	1.34	20.5	246.	ND	NC	355.	NC	NC
10.35	1410.	41.1	10.6	2613.	1.49	29.8	379.	ND	NC	324.	NC	NC
10.50	1382.	40.4	10.6	2597.	1.58	35.4	447.	ND	NC	318.	NC	NC
10.65	1370.	40.9	9.3	2293.	1.52	31.7	352.	ND	NC	315.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1368.	40.8	10.5	2575.	1.51	31.1	389.	ND	NC	315.	NC	NC
10.95	1353.	40.4	10.1	2476.	1.43	26.3	316.	ND	NC	311.	NC	NC
11.10	1346.	40.2	9.2	2264.	1.30	18.1	199.	ND	NC	310.	NC	NC
11.25	1356.	40.5	9.6	2354.	1.50	30.1	344.	ND	NC	312.	NC	NC
11.40	1316.	41.0	10.2	2500.	1.49	29.6	369.	ND	NC	303.	NC	NC
11.55	1304.	40.3	9.3	2277.	1.30	17.9	198.	ND	NC	300.	NC	NC
11.70	1326.	41.1	9.3	2275.	1.35	21.1	233.	ND	NC	305.	NC	NC
11.85	1376.	41.1	9.9	2434.	1.45	27.2	322.	ND	NC	317.	NC	NC
12.00	1469.	39.6	9.5	2329.	1.40	24.3	274.	ND	NC	338.	NC	NC
12.15	1582.	38.9	9.0	2222.	1.25	15.3	165.	ND	NC	364.	NC	NC
12.30	1614.	40.1	8.5	2101.	1.28	16.9	172.	ND	NC	371.	NC	NC
12.45	1606.	41.5	9.2	2267.	1.44	26.9	296.	ND	NC	369.	NC	NC
12.60	1383.	42.1	9.3	2292.	1.37	22.7	253.	ND	NC	318.	NC	NC
12.75	1364.	42.1	7.6	1874.	1.32	19.6	178.	ND	NC	314.	NC	NC
12.90	1353.	40.8	8.5	2089.	1.50	30.4	309.	ND	NC	311.	NC	NC
13.05	1356.	43.0	9.1	2241.	1.56	33.9	359.	ND	NC	312.	NC	NC
13.20	1370.	40.6	9.1	2233.	1.26	15.7	170.	ND	NC	315.	NC	NC
13.35	1311.	35.7	8.2	2016.	1.44	26.5	260.	ND	NC	301.	NC	NC
13.50	1294.	40.0	8.8	2173.	1.53	32.4	342.	ND	NC	298.	NC	NC
13.65	1287.	41.6	9.5	2328.	1.48	28.8	326.	ND	NC	296.	NC	NC
13.80	1314.	34.8	9.0	2213.	1.32	19.4	209.	ND	NC	302.	NC	NC
13.95	1304.	32.3	8.0	1959.	1.38	22.7	216.	ND	NC	300.	NC	NC
14.10	1352.	38.8	7.9	1940.	1.30	18.1	170.	ND	NC	311.	NC	NC
14.25	1434.	43.0	6.5	1600.	1.01	0.8	6.	ND	NC	330.	NC	NC
14.40	1493.	42.0	6.7	1646.	1.01	0.5	4.	ND	NC	343.	NC	NC
14.55	1535.	41.6	7.5	1835.	1.17	10.0	90.	ND	NC	353.	NC	NC
14.70	1640.	42.4	8.5	2081.	1.36	21.6	218.	ND	NC	377.	NC	NC
14.85	1515.	42.9	9.2	2273.	1.22	13.5	149.	ND	NC	349.	NC	NC
15.00	1407.	44.6	8.2	2006.	1.24	14.8	145.	ND	NC	324.	NC	NC
15.15	1412.	44.6	8.9	2194.	1.41	25.0	266.	ND	NC	325.	NC	NC
15.30	1389.	43.3	9.2	2268.	1.40	24.3	267.	ND	NC	319.	NC	NC
15.45	1359.	43.0	8.7	2143.	1.38	23.3	243.	ND	NC	313.	NC	NC
15.60	1355.	43.2	9.4	2305.	1.55	33.5	375.	ND	NC	312.	NC	NC
15.75	1341.	43.2	9.4	2301.	1.68	41.0	458.	ND	NC	308.	NC	NC
15.90	1320.	43.4	9.3	2297.	1.48	29.3	326.	ND	NC	304.	NC	NC
16.05	1308.	44.4	9.4	2306.	1.53	32.2	360.	ND	NC	301.	NC	NC
16.20	1339.	44.4	9.1	2236.	1.70	42.2	458.	ND	NC	308.	NC	NC
16.35	1412.	45.0	8.8	2175.	1.73	44.0	465.	ND	NC	325.	NC	NC
16.50	1442.	44.8	9.1	2240.	1.57	34.7	377.	ND	NC	332.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1555.	44.2	8.7	2132.	1.64	39.1	405.	ND	NC	358.	NC	NC
16.80	1800.	45.4	8.6	2107.	1.72	43.5	445.	ND	NC	414.	NC	NC
16.95	1787.	46.5	8.6	2126.	1.60	36.1	373.	ND	NC	411.	NC	NC
17.10	1611.	46.3	8.7	2134.	1.49	29.7	308.	ND	NC	371.	NC	NC
17.25	1441.	46.3	8.6	2122.	1.76	46.3	477.	ND	NC	332.	NC	NC
17.40	1397.	47.7	8.6	2110.	1.76	46.2	473.	ND	NC	321.	NC	NC
17.55	1374.	46.3	8.4	2069.	1.71	42.7	429.	ND	NC	316.	NC	NC
17.70	1367.	46.9	8.1	1990.	1.74	45.0	434.	ND	NC	314.	NC	NC
17.85	1367.	47.0	8.3	2031.	1.76	46.1	454.	ND	NC	314.	NC	NC
18.00	1360.	47.2	8.0	1961.	1.63	38.2	363.	ND	NC	313.	NC	NC
18.15	1334.	47.7	8.3	2042.	1.58	35.1	348.	ND	NC	307.	NC	NC
18.30	1210.	47.6	8.3	2052.	1.61	36.8	367.	ND	NC	278.	NC	NC
18.45	1282.	46.6	8.1	1991.	1.70	42.4	410.	ND	NC	295.	NC	NC
18.60	1424.	44.6	7.8	1922.	1.71	43.1	402.	ND	NC	328.	NC	NC
18.75	1509.	48.2	7.9	1953.	1.61	36.7	348.	ND	NC	347.	NC	NC
18.90	1714.	48.5	8.0	1955.	1.73	44.2	419.	ND	NC	394.	NC	NC
19.05	2082.	42.9	7.2	1761.	1.81	48.8	417.	ND	NC	479.	NC	NC
19.20	1758.	41.9	6.6	1633.	1.75	45.2	358.	ND	NC	413.	NC	NC
19.35	1563.	49.8	7.3	1802.	1.62	37.8	330.	ND	NC	359.	NC	NC
19.50	1370.	56.0	7.3	1807.	1.55	33.3	292.	ND	NC	315.	NC	NC
19.65	1347.	50.7	6.2	1529.	1.61	37.0	275.	ND	NC	310.	NC	NC
19.80	1330.	39.7	6.3	1545.	1.82	49.6	372.	ND	NC	306.	NC	NC
19.95	1174.	51.3	6.5	1592.	1.74	44.8	346.	ND	NC	270.	NC	NC
20.10	1268.	54.9	5.7	1401.	1.17	10.4	70.	ND	NC	292.	NC	NC
20.25	1416.	53.4	4.7	1156.	1.50	30.1	169.	ND	NC	326.	NC	NC
20.40	1440.	53.2	5.0	1239.	1.53	32.3	194.	ND	NC	331.	NC	NC
20.55	1439.	52.1	6.1	1500.	1.41	24.7	180.	ND	NC	331.	NC	NC
20.70	1438.	50.7	5.9	1443.	1.58	35.3	247.	ND	NC	331.	NC	NC
20.85	1437.	49.5	6.6	1629.	1.69	41.6	329.	ND	NC	331.	NC	NC
21.00	1510.	48.3	7.5	1852.	1.41	24.9	223.	ND	NC	347.	NC	NC
21.15	1738.	48.1	6.6	1617.	1.47	28.6	224.	ND	NC	410.	NC	NC
21.30	1940.	49.9	6.5	1603.	1.86	52.0	405.	ND	NC	446.	NC	NC
21.45	1818.	50.8	7.4	1812.	1.79	47.9	421.	ND	NC	418.	NC	NC
21.60	1526.	53.5	7.0	1724.	1.59	36.0	301.	ND	NC	351.	NC	NC
21.75	1393.	59.7	5.4	1337.	1.66	40.1	260.	ND	NC	320.	NC	NC
21.90	1392.	54.8	5.9	1444.	1.89	53.9	378.	ND	NC	320.	NC	NC
22.05	1413.	51.5	6.1	1507.	1.76	45.8	335.	ND	NC	325.	NC	NC
22.20	1192.	55.7	7.0	1710.	1.84	50.9	423.	ND	NC	274.	NC	NC
22.35	1325.	52.6	5.6	1374.	1.92	55.8	372.	ND	NC	305.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1348.	44.3	5.6	1382.	1.92	55.8	374.	ND	NC	310.	NC	NC
22.65	1126.	38.1	5.5	1350.	1.43	26.3	172.	ND	NC	259.	NC	NC
22.80	1064.	51.3	5.9	1454.	1.73	44.1	312.	ND	NC	245.	NC	NC
22.95	1222.	48.2	6.7	1637.	1.59	35.9	285.	ND	NC	281.	NC	NC
23.10	1243.	44.9	7.1	1746.	1.47	28.2	239.	ND	NC	286.	NC	NC
23.25	1298.	44.3	6.2	1521.	1.39	23.7	175.	ND	NC	299.	NC	NC
23.40	1590.	46.0	6.0	1483.	1.40	24.3	175.	ND	NC	366.	NC	NC
23.55	1643.	45.2	7.8	1930.	1.33	20.1	189.	ND	NC	378.	NC	NC
23.70	1523.	45.5	7.7	1888.	1.30	18.2	167.	ND	NC	350.	NC	NC
23.85	1298.	47.3	6.8	1678.	1.43	26.0	212.	ND	NC	298.	NC	NC
24.00	1188.	50.7	6.6	1622.	1.30	18.3	144.	ND	NC	273.	NC	NC
24.15	1198.	45.7	6.2	1537.	1.31	18.6	139.	ND	NC	276.	NC	NC
24.30	1080.	45.7	6.6	1616.	1.39	23.5	185.	ND	NC	248.	NC	NC
24.45	1037.	53.0	6.7	1649.	1.29	17.5	140.	ND	NC	238.	NC	NC
24.60	1165.	46.5	6.2	1535.	1.21	12.8	95.	ND	NC	268.	NC	NC
24.75	896.	42.0	6.2	1515.	1.26	15.5	114.	ND	NC	206.	NC	NC
24.90	749.	40.4	5.9	1447.	1.22	13.4	94.	ND	NC	172.	NC	NC
25.05	944.	39.0	6.6	1613.	1.16	9.6	75.	ND	NC	217.	NC	NC
25.20	971.	37.4	6.6	1620.	1.18	11.1	88.	ND	NC	223.	NC	NC
25.35	1002.	35.6	6.2	1536.	1.25	15.0	112.	ND	NC	230.	NC	NC
25.50	1131.	36.3	6.4	1569.	1.20	12.4	95.	ND	NC	260.	NC	NC
25.65	1192.	36.3	6.5	1607.	1.17	10.3	81.	ND	NC	274.	NC	NC
25.80	1237.	36.3	6.6	1616.	1.15	9.2	73.	ND	NC	284.	NC	NC
25.95	1208.	36.3	6.6	1624.	1.17	10.5	83.	ND	NC	278.	NC	NC
26.10	994.	37.9	6.5	1601.	1.18	10.8	84.	ND	NC	229.	NC	NC
26.25	915.	37.8	6.8	1674.	1.15	8.8	72.	ND	NC	211.	NC	NC
26.40	905.	37.2	6.7	1640.	1.16	10.0	79.	ND	NC	208.	NC	NC
26.55	896.	37.5	6.8	1664.	1.21	12.7	103.	ND	NC	206.	NC	NC
26.70	916.	41.7	6.8	1677.	1.10	6.2	50.	ND	NC	211.	NC	NC
26.85	912.	37.4	6.7	1653.	1.13	7.6	61.	ND	NC	210.	NC	NC
27.00	820.	36.2	6.8	1669.	1.17	10.0	81.	ND	NC	189.	NC	NC
27.15	840.	37.5	6.7	1649.	1.14	8.4	68.	ND	NC	193.	NC	NC
27.30	928.	36.9	6.6	1622.	1.10	6.4	50.	ND	NC	213.	NC	NC
27.45	947.	34.6	6.9	1686.	1.13	8.0	66.	ND	NC	218.	NC	NC
27.60	964.	35.6	6.8	1667.	1.16	9.7	78.	ND	NC	222.	NC	NC
27.75	1047.	36.7	6.6	1611.	1.13	7.9	62.	ND	NC	241.	NC	NC
27.90	1110.	37.2	6.9	1693.	1.12	7.0	57.	ND	NC	255.	NC	NC
28.05	1198.	35.5	6.8	1676.	1.12	7.4	60.	ND	NC	276.	NC	NC
28.20	1142.	36.1	6.9	1694.	1.15	8.9	73.	ND	NC	263.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1023.	39.1	7.2	1768.	1.10	6.1	52.	ND	NC	235.	NC	NC
28.50	934.	37.1	6.9	1709.	1.10	6.3	52.	ND	NC	215.	NC	NC
28.65	916.	36.2	6.5	1607.	1.13	7.9	62.	ND	NC	211.	NC	NC
28.80	925.	40.7	6.8	1680.	1.11	7.0	57.	ND	NC	213.	NC	NC
28.95	925.	37.0	7.2	1763.	1.10	6.1	52.	ND	NC	213.	NC	NC
29.10	923.	35.1	7.1	1752.	1.13	7.8	66.	ND	NC	212.	NC	NC
29.25	812.	37.5	7.0	1720.	1.17	10.4	87.	ND	NC	187.	NC	NC
29.40	853.	39.1	7.2	1762.	1.09	5.7	49.	ND	NC	196.	NC	NC
29.55	940.	35.3	7.3	1800.	1.10	6.2	54.	ND	NC	216.	NC	NC
29.70	912.	33.9	7.1	1749.	1.14	8.2	70.	ND	NC	210.	NC	NC
29.85	936.	34.4	6.9	1692.	1.10	6.1	50.	ND	NC	215.	NC	NC
30.00	1045.	34.5	7.6	1858.	1.08	4.9	44.	ND	NC	240.	NC	NC
30.15	1089.	33.1	7.2	1779.	1.13	8.0	69.	ND	NC	250.	NC	NC
30.30	1167.	33.4	7.0	1714.	1.12	7.1	59.	ND	NC	268.	NC	NC
30.45	1249.	36.0	7.3	1794.	1.08	5.0	44.	ND	NC	287.	NC	NC
30.60	1093.	35.3	7.5	1843.	1.08	4.8	43.	ND	NC	251.	NC	NC
30.75	939.	34.1	6.8	1661.	1.13	7.8	63.	ND	NC	216.	NC	NC
30.90	943.	34.0	7.0	1712.	1.09	5.5	45.	ND	NC	217.	NC	NC
31.05	930.	36.8	7.3	1802.	1.07	4.4	39.	ND	NC	214.	NC	NC
31.20	924.	35.4	7.1	1754.	1.09	5.5	47.	ND	NC	212.	NC	NC
31.35	929.	34.0	6.9	1687.	1.10	5.9	48.	ND	NC	214.	NC	NC
31.50	924.	33.5	7.3	1804.	1.07	4.1	36.	ND	NC	213.	NC	NC
31.65	939.	34.1	7.3	1797.	1.06	3.9	34.	ND	NC	216.	NC	NC
31.80	961.	33.2	7.0	1728.	1.06	3.9	33.	ND	NC	221.	NC	NC
31.95	887.	32.9	7.2	1765.	1.09	5.7	49.	ND	NC	204.	NC	NC
32.10	806.	32.1	7.3	1799.	1.07	4.1	36.	ND	NC	185.	NC	NC
32.25	777.	27.9	7.3	1798.	1.06	3.7	33.	ND	NC	179.	NC	NC
32.40	744.	25.5	6.8	1684.	1.10	6.1	50.	ND	NC	171.	NC	NC
32.55	723.	25.1	6.7	1650.	1.09	5.4	44.	ND	NC	166.	NC	NC
32.70	703.	23.8	6.6	1628.	1.06	3.9	31.	ND	NC	162.	NC	NC
32.85	656.	23.6	6.4	1581.	1.06	3.7	29.	ND	NC	151.	NC	NC
33.00	569.	22.8	6.3	1542.	1.06	3.9	29.	ND	NC	131.	NC	NC
33.15	537.	22.8	6.5	1591.	1.07	4.2	33.	ND	NC	124.	NC	NC
33.30	531.	22.9	6.8	1665.	1.07	4.0	33.	ND	NC	122.	NC	NC
33.45	544.	22.2	7.0	1726.	1.06	3.7	31.	ND	NC	125.	NC	NC
33.60	544.	22.7	7.0	1726.	1.08	5.0	42.	ND	NC	125.	NC	NC
33.75	550.	23.0	7.0	1726.	1.07	4.0	34.	ND	NC	127.	NC	NC
33.90	563.	23.7	7.1	1745.	1.06	3.8	32.	ND	NC	129.	NC	NC
34.05	571.	22.4	7.2	1760.	1.07	4.5	38.	ND	NC	131.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	571.	22.6	7.1	1741.	1.08	4.6	39.	ND	NC	131.	NC	NC
34.35	604.	22.7	7.2	1773.	1.07	4.0	34.	ND	NC	139.	NC	NC
34.50	629.	23.1	7.3	1787.	1.07	4.5	39.	ND	NC	145.	NC	NC
34.65	635.	22.6	7.1	1740.	1.08	4.7	40.	ND	NC	146.	NC	NC
34.80	667.	22.4	7.0	1725.	1.07	4.1	34.	ND	NC	153.	NC	NC
34.95	684.	22.9	7.1	1746.	1.06	3.5	30.	ND	NC	157.	NC	NC
35.10	679.	23.2	7.0	1733.	1.07	4.4	37.	ND	NC	156.	NC	NC
35.25	633.	23.6	6.9	1698.	1.07	4.3	35.	ND	NC	146.	NC	NC
35.40	554.	23.3	6.9	1698.	1.06	3.8	32.	ND	NC	127.	NC	NC
35.55	563.	23.2	6.9	1696.	1.06	3.7	30.	ND	NC	129.	NC	NC
35.70	544.	22.9	6.9	1693.	1.07	4.1	34.	ND	NC	125.	NC	NC
35.85	556.	23.1	6.9	1707.	1.07	4.2	35.	ND	NC	128.	NC	NC
36.00	563.	22.7	6.9	1707.	1.07	4.0	33.	ND	NC	129.	NC	NC
36.15	566.	22.5	7.0	1715.	1.07	4.3	36.	ND	NC	130.	NC	NC
36.30	566.	22.6	6.8	1684.	1.06	3.9	32.	ND	NC	130.	NC	NC
36.45	573.	22.7	6.8	1680.	1.05	3.1	25.	ND	NC	132.	NC	NC
36.60	582.	22.8	6.9	1696.	1.05	3.1	25.	ND	NC	134.	NC	NC
36.75	612.	21.9	6.9	1701.	1.06	3.5	29.	ND	NC	141.	NC	NC
36.90	641.	22.5	6.8	1671.	1.05	3.2	26.	ND	NC	148.	NC	NC
37.05	654.	22.5	6.7	1648.	1.05	2.9	23.	ND	NC	150.	NC	NC
37.20	658.	22.5	6.7	1648.	1.05	2.9	23.	ND	NC	151.	NC	NC
37.35	677.	22.0	6.6	1632.	1.05	3.3	26.	ND	NC	156.	NC	NC
37.50	659.	22.3	6.6	1630.	1.06	3.4	27.	ND	NC	152.	NC	NC
37.65	595.	22.4	6.6	1624.	1.05	3.1	24.	ND	NC	137.	NC	NC
37.80	568.	22.0	6.7	1642.	1.05	3.2	25.	ND	NC	131.	NC	NC
37.95	566.	22.3	6.6	1617.	1.06	3.4	26.	ND	NC	130.	NC	NC
38.10	567.	21.7	6.4	1575.	1.05	2.9	22.	ND	NC	130.	NC	NC
38.25	569.	21.9	6.4	1565.	1.04	2.6	20.	ND	NC	131.	NC	NC
38.40	561.	22.0	6.5	1607.	1.04	2.7	21.	ND	NC	129.	NC	NC
38.55	570.	22.4	6.7	1637.	1.05	2.7	22.	ND	NC	131.	NC	NC
38.70	576.	22.0	6.6	1629.	1.05	2.8	23.	ND	NC	133.	NC	NC
38.85	592.	22.2	6.8	1662.	1.05	2.8	23.	ND	NC	136.	NC	NC
39.00	592.	22.0	6.7	1652.	1.05	3.0	24.	ND	NC	136.	NC	NC
39.15	613.	22.4	6.5	1602.	1.04	2.3	18.	ND	NC	141.	NC	NC
39.30	636.	22.8	6.6	1621.	1.04	2.7	21.	ND	NC	146.	NC	NC
39.45	657.	21.9	6.6	1631.	1.05	2.8	22.	ND	NC	151.	NC	NC
39.60	680.	22.4	6.3	1559.	1.05	2.7	21.	ND	NC	156.	NC	NC
39.75	682.	22.6	6.2	1521.	1.04	2.4	18.	ND	NC	157.	NC	NC
39.90	669.	22.8	6.2	1530.	1.04	2.4	18.	ND	NC	154.	NC	NC

RUN NUMBER- 37
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	624.	22.3	6.3	1554.	1.05	2.7	21.	ND	NC	144.	NC	NC
40.20	555.	22.0	6.4	1563.	1.05	2.9	22.	ND	NC	128.	NC	NC
40.35	552.	22.0	6.3	1556.	1.04	2.4	18.	ND	NC	127.	NC	NC
40.50	566.	22.2	6.5	1601.	1.04	2.2	17.	ND	NC	130.	NC	NC
40.65	566.	21.8	6.6	1611.	1.05	2.7	21.	ND	NC	130.	NC	NC
40.80	566.	21.8	6.6	1614.	1.05	2.8	22.	ND	NC	130.	NC	NC
40.95	560.	21.9	6.6	1618.	1.04	2.6	21.	ND	NC	129.	NC	NC
41.10	557.	22.1	6.6	1614.	1.05	2.8	22.	ND	NC	128.	NC	NC
41.25	582.	22.3	6.4	1569.	1.05	2.7	21.	ND	NC	134.	NC	NC
41.40	593.	21.5	6.3	1554.	1.04	2.6	20.	ND	NC	136.	NC	NC
41.55	616.	21.9	6.5	1605.	1.04	2.6	20.	ND	NC	142.	NC	NC
41.70	636.	22.2	6.5	1596.	1.04	2.5	19.	ND	NC	146.	NC	NC
41.85	668.	22.3	6.5	1588.	1.04	2.4	19.	ND	NC	154.	NC	NC
42.00	681.	21.8	6.4	1585.	1.05	2.7	21.	ND	NC	157.	NC	NC
42.15	675.	21.5	6.5	1593.	1.05	2.9	22.	ND	NC	155.	NC	NC
42.30	624.	22.1	6.5	1588.	1.05	3.1	24.	ND	NC	144.	NC	NC
42.45	554.	22.1	6.4	1584.	1.05	2.8	22.	ND	NC	127.	NC	NC
42.60	537.	22.4	6.5	1592.	1.04	2.5	19.	ND	NC	124.	NC	NC
42.75	548.	22.0	6.6	1619.	1.04	2.5	20.	ND	NC	126.	NC	NC
42.90	550.	21.7	6.4	1578.	1.04	2.7	20.	ND	NC	126.	NC	NC
43.05	550.	22.0	6.3	1554.	1.04	2.4	18.	ND	NC	126.	NC	NC
43.20	557.	22.2	6.3	1560.	1.04	2.5	19.	ND	NC	128.	NC	NC
43.35	567.	22.2	6.4	1568.	1.04	2.4	19.	ND	NC	130.	NC	NC
43.50	569.	21.7	6.4	1565.	1.04	2.6	19.	ND	NC	131.	NC	NC
43.65	531.	22.2	6.4	1570.	1.04	2.4	18.	ND	NC	122.	NC	NC
43.80	525.	19.9	6.4	1574.	1.04	2.4	18.	ND	NC	121.	NC	NC
43.95	543.	17.5	6.3	1553.	1.04	2.5	19.	ND	NC	125.	NC	NC
44.10	568.	16.5	6.1	1505.	1.04	2.6	19.	ND	NC	131.	NC	NC
44.25	351.	12.3	6.1	1489.	1.04	2.5	18.	ND	NC	81.	NC	NC
44.40	121.	5.4	5.1	1265.	1.04	2.2	13.	ND	NC	28.	NC	NC
44.55	54.	3.4	4.0	979.	1.03	2.1	10.	ND	NC	12.	NC	NC
44.70	18.	2.6	3.4	833.	1.04	2.1	9.	ND	NC	4.	NC	NC
44.85	4.	2.2	3.1	758.	1.03	2.0	7.	ND	NC	1.	NC	NC
45.00	1.	1.7	3.1	769.	1.03	1.9	7.	ND	NC	0.	NC	NC
45.15	9.	1.2	3.0	740.	1.03	1.7	6.	ND	NC	2.	NC	NC
45.30	1.	0.6	2.6	645.	1.03	1.6	5.	ND	NC	0.	NC	NC
45.45	3.	0.2	1.5	380.	1.03	1.7	3.	ND	NC	1.	NC	NC
45.60	-3.	0.3	1.2	295.	1.03	1.6	2.	ND	NC	-1.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 28 78
RUN NUMBER- 3A
SEGMENT NUMBER- 1
WATER DEPTH- 16 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.2%
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	252.	12.8	3.2	61.	1.04	2.5	1.	ND	NC	58.	NC	NC
0.15	326.	14.4	0.3	70.	1.04	2.3	1.	ND	NC	75.	NC	NC
0.30	364.	14.8	0.3	64.	1.03	1.6	1.	ND	NC	84.	NC	NC
0.45	383.	15.8	0.3	72.	1.02	1.0	0.	ND	NC	88.	NC	NC
0.60	326.	16.7	3.7	905.	1.01	0.8	4.	ND	NC	75.	NC	NC
0.75	287.	17.4	4.3	1059.	1.00	0.	0.	ND	NC	66.	NC	NC
0.90	318.	19.2	4.3	1049.	1.00	0.	0.	ND	NC	73.	NC	NC
1.05	393.	20.1	4.3	1062.	1.00	0.	0.	ND	NC	90.	NC	NC
1.20	455.	20.5	4.3	1065.	1.00	0.	0.	ND	NC	105.	NC	NC
1.35	506.	19.5	5.1	1255.	1.00	0.	0.	ND	NC	116.	NC	NC
1.50	661.	20.4	5.6	1389.	1.00	0.	0.	ND	NC	152.	NC	NC
1.65	689.	21.1	5.7	1401.	1.00	0.	0.	ND	NC	159.	NC	NC
1.80	763.	22.3	5.9	1462.	1.00	0.	0.	ND	NC	175.	NC	NC
1.95	807.	22.6	6.6	1632.	1.05	3.0	24.	ND	NC	186.	NC	NC
2.10	885.	22.9	6.6	1632.	1.06	3.5	28.	ND	NC	204.	NC	NC
2.25	937.	24.9	6.6	1633.	1.06	3.4	27.	ND	NC	215.	NC	NC
2.40	947.	26.3	6.9	1693.	1.05	2.9	24.	ND	NC	218.	NC	NC
2.55	968.	25.7	7.0	1715.	1.05	3.0	25.	ND	NC	223.	NC	NC
2.70	910.	24.7	6.5	1609.	1.05	2.9	23.	ND	NC	209.	NC	NC
2.85	828.	24.9	6.5	1595.	1.05	3.1	24.	ND	NC	190.	NC	NC
3.00	827.	25.1	6.5	1605.	1.04	2.7	21.	ND	NC	190.	NC	NC
3.15	821.	25.2	6.4	1576.	1.04	2.3	17.	ND	NC	189.	NC	NC
3.30	803.	25.3	6.6	1626.	1.05	3.0	24.	ND	NC	185.	NC	NC
3.45	834.	25.4	6.8	1667.	1.06	3.5	28.	ND	NC	192.	NC	NC
3.60	811.	25.2	6.7	1639.	1.05	2.9	23.	ND	NC	187.	NC	NC
3.75	799.	24.9	7.0	1724.	1.05	2.9	24.	ND	NC	184.	NC	NC
3.90	816.	25.1	6.9	1703.	1.05	3.1	26.	ND	NC	188.	NC	NC
4.05	839.	25.1	6.8	1677.	1.04	2.1	17.	ND	NC	193.	NC	NC
4.20	885.	24.5	7.2	1782.	1.03	2.0	18.	ND	NC	204.	NC	NC
4.35	903.	24.7	7.4	1817.	1.04	2.6	23.	ND	NC	208.	NC	NC
4.50	937.	25.0	7.0	1713.	1.07	4.2	35.	ND	NC	216.	NC	NC
4.65	960.	24.9	6.9	1698.	1.05	3.1	26.	ND	NC	221.	NC	NC
4.80	943.	24.6	7.2	1770.	1.04	2.6	22.	ND	NC	217.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	810.	24.7	7.1	1738.	1.04	2.6	22.	ND	NC	186.	NC	NC
5.10	813.	24.9	6.9	1707.	1.04	2.5	21.	ND	NC	187.	NC	NC
5.25	814.	25.0	7.2	1759.	1.04	2.5	21.	ND	NC	187.	NC	NC
5.40	812.	24.5	7.3	1784.	1.06	3.9	34.	ND	NC	187.	NC	NC
5.55	818.	24.6	7.2	1770.	1.06	3.6	31.	ND	NC	188.	NC	NC
5.70	802.	24.7	7.2	1778.	1.04	2.7	23.	ND	NC	184.	NC	NC
5.85	803.	24.7	7.3	1804.	1.04	2.3	20.	ND	NC	185.	NC	NC
6.00	808.	24.3	7.4	1827.	1.04	2.4	21.	ND	NC	186.	NC	NC
6.15	857.	24.1	7.3	1785.	1.04	2.3	20.	ND	NC	197.	NC	NC
6.30	875.	24.5	7.3	1785.	1.04	2.6	22.	ND	NC	201.	NC	NC
6.45	898.	24.5	7.4	1827.	1.04	2.5	22.	ND	NC	206.	NC	NC
6.60	920.	24.5	7.4	1821.	1.04	2.6	23.	ND	NC	211.	NC	NC
6.75	940.	24.5	7.2	1782.	1.04	2.6	23.	ND	NC	216.	NC	NC
6.91	931.	23.9	7.4	1823.	1.04	2.4	21.	ND	NC	214.	NC	NC
7.05	842.	24.2	7.4	1821.	1.04	2.3	20.	ND	NC	194.	NC	NC
7.20	820.	24.5	7.2	1765.	1.04	2.2	18.	ND	NC	189.	NC	NC
7.35	819.	24.9	7.3	1785.	1.03	2.1	18.	ND	NC	188.	NC	NC
7.50	828.	23.8	7.6	1876.	1.04	2.4	22.	ND	NC	190.	NC	NC
7.65	804.	23.4	7.6	1858.	1.04	2.5	23.	ND	NC	185.	NC	NC
7.80	806.	23.7	7.6	1861.	1.04	2.2	20.	ND	NC	185.	NC	NC
7.95	824.	23.7	7.6	1876.	1.03	2.0	18.	ND	NC	189.	NC	NC
8.10	832.	23.4	7.7	1899.	1.04	2.3	21.	ND	NC	191.	NC	NC
8.25	844.	23.4	7.8	1911.	1.03	1.8	17.	ND	NC	194.	NC	NC
8.40	869.	23.9	7.8	1916.	1.03	1.7	16.	ND	NC	200.	NC	NC
8.55	892.	23.9	7.9	1942.	1.04	2.1	20.	ND	NC	205.	NC	NC
8.70	918.	23.3	7.8	1921.	1.05	2.7	26.	ND	NC	211.	NC	NC
8.85	938.	23.1	7.8	1920.	1.04	2.5	24.	ND	NC	216.	NC	NC
9.00	931.	23.4	7.7	1894.	1.04	2.4	22.	ND	NC	214.	NC	NC
9.15	865.	23.5	7.7	1887.	1.05	3.1	28.	ND	NC	199.	NC	NC
9.30	818.	23.6	7.7	1897.	1.05	3.0	27.	ND	NC	188.	NC	NC
9.45	823.	23.3	7.7	1898.	1.04	2.3	21.	ND	NC	189.	NC	NC
9.60	824.	23.3	7.7	1905.	1.04	2.4	22.	ND	NC	190.	NC	NC
9.75	814.	23.0	7.8	1925.	1.04	2.3	21.	ND	NC	187.	NC	NC
9.90	818.	23.5	8.0	1956.	1.04	2.2	21.	ND	NC	188.	NC	NC
10.05	836.	23.3	7.7	1901.	1.04	2.4	22.	ND	NC	192.	NC	NC
10.20	840.	23.1	7.8	1911.	1.04	2.5	24.	ND	NC	193.	NC	NC
10.35	837.	23.3	8.1	1987.	1.04	2.4	23.	ND	NC	192.	NC	NC
10.50	872.	23.2	8.1	1998.	1.04	2.3	22.	ND	NC	201.	NC	NC
10.65	898.	23.6	7.9	1945.	1.04	2.6	24.	ND	NC	207.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	921.	23.2	7.8	1919.	1.05	2.8	26.	ND	NC	212.	NC	NC
10.95	932.	23.4	8.1	1988.	1.04	2.4	23.	ND	NC	214.	NC	NC
11.10	910.	23.5	8.1	2002.	1.03	2.1	20.	ND	NC	209.	NC	NC
11.25	856.	23.7	8.0	1956.	1.04	2.2	21.	ND	NC	197.	NC	NC
11.40	843.	23.0	7.9	1943.	1.04	2.4	23.	ND	NC	194.	NC	NC
11.55	819.	23.2	8.3	2032.	1.04	2.3	23.	ND	NC	188.	NC	NC
11.70	822.	23.5	8.1	2001.	1.04	2.3	22.	ND	NC	189.	NC	NC
11.85	814.	23.5	8.0	1975.	1.04	2.2	21.	ND	NC	187.	NC	NC
12.00	818.	23.3	8.1	2001.	1.04	2.4	24.	ND	NC	188.	NC	NC
12.15	824.	22.8	8.4	2054.	1.04	2.4	24.	ND	NC	190.	NC	NC
12.30	834.	22.9	8.2	2014.	1.04	2.7	26.	ND	NC	192.	NC	NC
12.45	863.	22.7	8.1	1992.	1.04	2.5	24.	ND	NC	198.	NC	NC
12.60	901.	21.4	8.3	2042.	1.04	2.2	22.	ND	NC	207.	NC	NC
12.75	870.	19.8	7.8	1928.	1.04	2.4	23.	ND	NC	200.	NC	NC
12.90	1026.	23.4	7.8	1919.	1.04	2.3	21.	ND	NC	236.	NC	NC
13.05	1100.	25.1	8.6	2127.	1.04	2.4	25.	ND	NC	253.	NC	NC
13.20	1164.	26.4	9.0	2202.	1.03	2.1	23.	ND	NC	268.	NC	NC
13.35	1207.	28.0	9.4	2305.	1.04	2.2	24.	ND	NC	278.	NC	NC
13.50	1203.	28.9	9.7	2388.	1.05	3.1	36.	ND	NC	277.	NC	NC
13.65	1277.	29.2	10.0	2466.	1.05	3.3	39.	ND	NC	294.	NC	NC
13.80	1309.	31.4	10.2	2515.	1.12	7.4	91.	ND	NC	301.	NC	NC
13.95	1337.	31.2	10.1	2476.	1.14	8.5	102.	ND	NC	307.	NC	NC
14.10	1333.	30.2	10.1	2491.	1.09	5.3	64.	ND	NC	307.	NC	NC
14.25	1465.	30.3	10.2	2514.	1.11	6.8	82.	ND	NC	337.	NC	NC
14.40	1491.	33.8	10.7	2632.	1.22	13.3	169.	ND	NC	343.	NC	NC
14.55	1502.	33.3	11.0	2703.	1.13	7.6	99.	ND	NC	345.	NC	NC
14.70	1530.	31.5	10.9	2674.	1.07	4.4	57.	ND	NC	352.	NC	NC
14.85	1593.	33.3	11.1	2726.	1.21	12.6	167.	ND	NC	366.	NC	NC
15.00	1673.	33.3	11.4	2792.	1.16	9.5	128.	ND	NC	385.	NC	NC
15.15	1706.	31.0	10.9	2678.	1.08	4.7	61.	ND	NC	392.	NC	NC
15.30	1708.	32.6	10.6	2607.	1.12	7.1	90.	ND	NC	393.	NC	NC
15.45	1625.	34.3	11.3	2790.	1.16	9.9	134.	ND	NC	374.	NC	NC
15.60	1592.	35.5	11.3	2788.	1.14	8.7	118.	ND	NC	366.	NC	NC
15.75	1551.	34.9	10.5	2571.	1.09	5.6	70.	ND	NC	357.	NC	NC
15.90	1560.	34.3	11.0	2714.	1.07	4.1	54.	ND	NC	359.	NC	NC
16.05	1560.	34.9	11.3	2771.	1.17	10.4	140.	ND	NC	359.	NC	NC
16.20	1518.	33.6	11.0	2704.	1.13	7.9	104.	ND	NC	349.	NC	NC
16.35	1497.	30.4	10.4	2550.	1.07	4.1	51.	ND	NC	344.	NC	NC
16.50	1492.	33.8	10.7	2632.	1.19	11.6	148.	ND	NC	343.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1490.	33.8	11.1	2735.	1.21	12.8	170.	ND	NC	343.	NC	NC
16.80	1490.	30.1	10.9	2673.	1.12	7.5	97.	ND	NC	343.	NC	NC
16.95	1535.	27.3	10.2	2500.	1.04	2.5	30.	ND	NC	353.	NC	NC
17.10	1675.	32.8	7.5	1840.	1.02	1.1	9.	ND	NC	385.	NC	NC
17.25	1837.	34.4	8.6	2108.	1.01	0.3	3.	ND	NC	422.	NC	NC
17.40	1766.	30.6	10.2	2506.	1.01	0.5	6.	ND	NC	406.	NC	NC
17.55	1653.	35.0	10.1	2492.	1.02	0.9	11.	ND	NC	380.	NC	NC
17.70	1589.	37.1	10.8	2648.	1.11	6.9	89.	ND	NC	366.	NC	NC
17.85	1560.	35.8	10.9	2690.	1.12	7.1	93.	ND	NC	359.	NC	NC
18.00	1540.	35.1	10.2	2511.	1.05	3.2	39.	ND	NC	354.	NC	NC
18.15	1561.	34.9	10.6	2613.	1.13	7.8	99.	ND	NC	359.	NC	NC
18.30	1546.	34.9	11.1	2729.	1.22	13.4	178.	ND	NC	356.	NC	NC
18.45	1516.	33.4	10.7	2626.	1.14	8.5	109.	ND	NC	349.	NC	NC
18.60	1497.	33.8	10.4	2563.	1.07	4.0	49.	ND	NC	344.	NC	NC
18.75	1526.	34.7	10.9	2680.	1.26	15.5	201.	ND	NC	351.	NC	NC
18.90	1552.	33.3	11.4	2811.	1.17	10.5	143.	ND	NC	357.	NC	NC
19.05	1600.	32.9	10.7	2636.	1.08	5.1	65.	ND	NC	368.	NC	NC
19.20	1673.	35.0	10.9	2681.	1.19	11.5	150.	ND	NC	385.	NC	NC
19.35	1750.	35.0	11.3	2774.	1.21	12.8	173.	ND	NC	402.	NC	NC
19.50	1835.	33.7	11.4	2806.	1.15	8.9	121.	ND	NC	422.	NC	NC
19.65	1608.	35.0	10.6	2616.	1.10	6.2	79.	ND	NC	370.	NC	NC
19.80	1573.	36.8	10.8	2664.	1.15	9.0	116.	ND	NC	362.	NC	NC
19.95	1561.	37.1	11.1	2740.	1.18	10.9	145.	ND	NC	359.	NC	NC
20.10	1552.	36.1	10.8	2655.	1.14	8.4	108.	ND	NC	357.	NC	NC
20.25	1538.	34.9	10.4	2564.	1.06	3.4	43.	ND	NC	354.	NC	NC
20.40	1531.	36.1	10.6	2614.	1.30	17.9	227.	ND	NC	352.	NC	NC
20.55	1504.	36.0	10.9	2670.	1.23	13.7	177.	ND	NC	346.	NC	NC
20.70	1525.	32.2	10.6	2614.	1.14	8.4	107.	ND	NC	351.	NC	NC
20.85	1558.	31.9	9.9	2440.	1.14	8.5	101.	ND	NC	358.	NC	NC
21.00	1534.	31.7	8.7	2128.	1.24	14.8	153.	ND	NC	353.	NC	NC
21.15	1630.	32.9	7.9	1931.	1.04	2.7	25.	ND	NC	375.	NC	NC
21.30	1688.	33.2	10.2	2503.	1.09	5.7	69.	ND	NC	388.	NC	NC
21.45	1697.	33.0	9.6	2371.	1.14	8.6	98.	ND	NC	390.	NC	NC
21.60	1714.	33.3	9.2	2258.	1.17	10.3	113.	ND	NC	394.	NC	NC
21.75	1635.	35.5	9.9	2432.	1.20	12.3	145.	ND	NC	376.	NC	NC
21.90	1572.	36.5	10.3	2528.	1.13	7.7	95.	ND	NC	362.	NC	NC
22.05	1568.	38.1	10.4	2560.	1.11	6.7	83.	ND	NC	361.	NC	NC
22.20	1545.	37.7	10.2	2512.	1.11	6.8	84.	ND	NC	355.	NC	NC
22.35	1532.	34.8	10.4	2549.	1.07	4.4	55.	ND	NC	352.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1540.	35.6	10.3	2540.	1.12	7.6	93.	ND	NC	354.	NC	NC
22.65	1504.	36.6	10.4	2569.	1.25	15.3	191.	ND	NC	346.	NC	NC
22.80	1485.	32.9	10.3	2530.	1.32	19.6	241.	ND	NC	342.	NC	NC
22.95	1537.	27.9	10.1	2486.	1.10	5.9	71.	ND	NC	354.	NC	NC
23.10	1523.	31.9	8.1	1996.	1.05	2.9	28.	ND	NC	350.	NC	NC
23.25	1569.	32.0	7.6	1863.	1.02	1.1	10.	ND	NC	361.	NC	NC
23.40	1634.	31.8	9.0	2203.	1.01	0.4	4.	ND	NC	376.	NC	NC
23.55	1728.	33.4	9.6	2355.	1.01	0.8	10.	ND	NC	397.	NC	NC
23.70	1758.	36.9	10.4	2553.	1.14	8.6	106.	ND	NC	404.	NC	NC
23.85	1605.	36.9	10.8	2657.	1.17	10.0	129.	ND	NC	369.	NC	NC
24.00	1589.	35.9	10.0	2465.	1.12	7.0	83.	ND	NC	366.	NC	NC
24.15	1561.	35.9	10.6	2604.	1.06	3.5	45.	ND	NC	359.	NC	NC
24.30	1551.	36.0	11.0	2696.	1.12	7.1	94.	ND	NC	357.	NC	NC
24.45	1528.	34.7	10.9	2671.	1.12	7.2	93.	ND	NC	351.	NC	NC
24.60	1520.	34.2	10.7	2619.	1.06	3.7	47.	ND	NC	349.	NC	NC
24.75	1505.	34.8	10.8	2647.	1.15	9.4	120.	ND	NC	346.	NC	NC
24.90	1480.	34.6	11.0	2697.	1.21	12.6	165.	ND	NC	340.	NC	NC
25.05	1503.	34.1	10.9	2671.	1.13	7.8	101.	ND	NC	346.	NC	NC
25.20	1553.	34.7	10.8	2665.	1.14	8.3	107.	ND	NC	357.	NC	NC
25.35	1598.	35.4	11.0	2716.	1.24	14.3	188.	ND	NC	368.	NC	NC
25.50	1655.	35.0	10.9	2683.	1.26	15.6	204.	ND	NC	381.	NC	NC
25.65	1734.	34.7	10.7	2631.	1.12	7.2	92.	ND	NC	399.	NC	NC
25.80	1689.	35.5	11.0	2701.	1.17	10.2	134.	ND	NC	388.	NC	NC
25.95	1603.	37.7	11.1	2719.	1.21	12.7	167.	ND	NC	369.	NC	NC
26.10	1558.	37.2	11.0	2699.	1.17	10.4	136.	ND	NC	358.	NC	NC
26.25	1560.	35.2	10.7	2643.	1.10	5.8	74.	ND	NC	359.	NC	NC
26.40	1537.	35.8	10.8	2656.	1.13	7.8	101.	ND	NC	354.	NC	NC
26.55	1532.	36.5	11.0	2699.	1.22	13.2	173.	ND	NC	352.	NC	NC
26.70	1499.	34.8	10.6	2614.	1.16	10.0	126.	ND	NC	345.	NC	NC
26.85	1494.	33.4	10.3	2532.	1.06	3.9	48.	ND	NC	344.	NC	NC
27.00	1491.	35.6	11.1	2718.	1.24	14.4	190.	ND	NC	343.	NC	NC
27.15	1499.	35.1	11.1	2732.	1.25	15.0	198.	ND	NC	345.	NC	NC
27.30	1540.	31.1	10.6	2601.	1.12	7.2	90.	ND	NC	354.	NC	NC
27.45	1596.	33.8	10.5	2588.	1.15	8.9	112.	ND	NC	367.	NC	NC
27.60	1675.	35.2	11.1	2733.	1.10	5.9	78.	ND	NC	385.	NC	NC
27.75	1804.	31.9	11.3	2772.	1.07	4.3	58.	ND	NC	415.	NC	NC
27.90	1654.	33.5	10.6	2598.	1.05	3.2	41.	ND	NC	380.	NC	NC
28.05	1556.	36.3	10.8	2649.	1.08	5.1	65.	ND	NC	358.	NC	NC
28.20	1586.	36.8	11.4	2801.	1.15	8.8	120.	ND	NC	365.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1541.	34.8	10.7	2628.	1.08	4.9	63.	ND	NC	354.	NC	NC
28.50	1526.	34.1	10.4	2556.	1.07	4.5	56.	ND	NC	351.	NC	NC
28.65	1520.	36.1	10.8	2662.	1.19	11.2	145.	ND	NC	350.	NC	NC
28.80	1506.	35.4	11.0	2716.	1.14	8.2	108.	ND	NC	346.	NC	NC
28.95	1485.	32.0	10.6	2608.	1.05	3.0	38.	ND	NC	342.	NC	NC
29.10	1488.	33.6	10.5	2584.	1.11	6.8	86.	ND	NC	342.	NC	NC
29.25	1492.	35.7	10.5	2577.	1.11	6.6	82.	ND	NC	343.	NC	NC
29.40	1545.	35.3	10.9	2685.	1.08	4.6	60.	ND	NC	355.	NC	NC
29.55	1593.	35.2	10.9	2676.	1.06	3.4	44.	ND	NC	366.	NC	NC
29.70	1671.	36.5	11.2	2749.	1.13	7.9	106.	ND	NC	384.	NC	NC
29.85	1726.	35.9	10.9	2688.	1.11	6.9	90.	ND	NC	397.	NC	NC
30.00	1730.	35.1	10.6	2612.	1.07	4.4	55.	ND	NC	398.	NC	NC
30.15	1650.	35.5	10.7	2632.	1.07	4.5	57.	ND	NC	380.	NC	NC
30.30	1566.	36.7	10.8	2653.	1.08	5.1	66.	ND	NC	360.	NC	NC
30.45	1572.	35.5	10.7	2640.	1.08	5.0	64.	ND	NC	362.	NC	NC
30.60	1537.	34.8	10.8	2663.	1.06	3.6	47.	ND	NC	353.	NC	NC
30.75	1536.	35.2	11.0	2696.	1.06	3.5	46.	ND	NC	353.	NC	NC
30.90	1512.	35.6	10.8	2658.	1.10	5.8	74.	ND	NC	348.	NC	NC
31.05	1475.	35.4	11.1	2730.	1.08	4.9	65.	ND	NC	339.	NC	NC
31.20	1477.	35.1	11.1	2739.	1.05	3.2	42.	ND	NC	340.	NC	NC
31.35	1512.	35.4	10.8	2644.	1.10	6.0	77.	ND	NC	348.	NC	NC
31.50	1552.	35.4	10.7	2644.	1.09	5.3	67.	ND	NC	357.	NC	NC
31.65	1589.	35.1	11.0	2707.	1.05	3.2	43.	ND	NC	366.	NC	NC
31.80	1679.	34.6	10.9	2674.	1.06	3.6	47.	ND	NC	386.	NC	NC
31.95	1754.	35.7	10.7	2628.	1.05	2.9	37.	ND	NC	403.	NC	NC
32.10	1734.	35.3	10.9	2685.	1.05	2.9	38.	ND	NC	399.	NC	NC
32.25	1612.	34.1	11.0	2706.	1.07	4.0	52.	ND	NC	371.	NC	NC
32.40	1545.	35.2	10.7	2629.	1.07	4.3	55.	ND	NC	355.	NC	NC
32.55	1542.	35.9	10.6	2606.	1.06	3.8	48.	ND	NC	355.	NC	NC
32.70	1537.	35.6	10.9	2676.	1.07	4.4	57.	ND	NC	353.	NC	NC
32.85	1518.	35.2	11.1	2719.	1.05	3.1	41.	ND	NC	349.	NC	NC
33.00	1500.	34.5	11.1	2729.	1.06	3.4	45.	ND	NC	345.	NC	NC
33.15	1492.	34.7	11.2	2743.	1.08	4.7	62.	ND	NC	343.	NC	NC
33.30	1476.	34.7	11.3	2788.	1.06	3.6	48.	ND	NC	340.	NC	NC
33.45	1485.	34.4	11.3	2779.	1.06	3.5	47.	ND	NC	342.	NC	NC
33.60	1529.	34.2	11.1	2738.	1.07	4.5	60.	ND	NC	352.	NC	NC
33.75	1577.	34.3	11.1	2727.	1.07	4.4	58.	ND	NC	363.	NC	NC
33.90	1645.	34.3	11.2	2748.	1.04	2.7	36.	ND	NC	378.	NC	NC
34.05	1713.	34.7	11.1	2721.	1.07	4.3	57.	ND	NC	394.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1673.	34.5	11.0	2697.	1.11	6.7	88.	ND	NC	385.	NC	NC
34.35	1593.	34.5	11.1	2722.	1.08	4.9	64.	ND	NC	366.	NC	NC
34.50	1543.	34.7	11.0	2702.	1.08	4.7	62.	ND	NC	355.	NC	NC
34.65	1539.	35.0	10.7	2641.	1.10	5.8	75.	ND	NC	354.	NC	NC
34.80	1541.	35.1	10.6	2606.	1.12	7.1	90.	ND	NC	355.	NC	NC
34.95	1525.	34.9	11.0	2698.	1.11	6.9	90.	ND	NC	351.	NC	NC
35.10	1506.	34.4	11.3	2774.	1.07	4.4	59.	ND	NC	346.	NC	NC
35.25	1475.	34.7	10.9	2688.	1.13	7.8	101.	ND	NC	339.	NC	NC
35.40	1466.	34.7	11.2	2756.	1.14	8.5	114.	ND	NC	337.	NC	NC
35.55	1479.	34.3	11.3	2783.	1.08	4.9	67.	ND	NC	340.	NC	NC
35.70	1525.	34.1	11.4	2796.	1.16	9.6	130.	ND	NC	351.	NC	NC
35.85	1592.	34.3	10.9	2679.	1.17	10.4	135.	ND	NC	366.	NC	NC
36.00	1637.	33.7	10.9	2689.	1.12	7.3	95.	ND	NC	377.	NC	NC
36.15	1687.	33.7	10.9	2679.	1.08	5.1	66.	ND	NC	388.	NC	NC
36.30	1652.	34.6	10.7	2642.	1.16	10.0	128.	ND	NC	380.	NC	NC
36.45	1560.	35.2	10.8	2649.	1.21	12.5	161.	ND	NC	359.	NC	NC
36.60	1507.	34.7	10.4	2561.	1.12	7.1	88.	ND	NC	347.	NC	NC
36.75	1530.	32.7	10.8	2653.	1.06	3.7	48.	ND	NC	352.	NC	NC
36.90	1535.	36.0	11.0	2706.	1.16	9.8	129.	ND	NC	353.	NC	NC
37.05	1533.	35.5	11.1	2742.	1.19	11.4	152.	ND	NC	353.	NC	NC
37.20	1488.	32.2	10.8	2654.	1.11	6.5	84.	ND	NC	342.	NC	NC
37.35	1491.	35.0	10.6	2609.	1.28	16.7	211.	ND	NC	343.	NC	NC
37.50	1476.	35.8	10.8	2664.	1.30	18.0	232.	ND	NC	339.	NC	NC
37.65	1485.	33.9	11.0	2704.	1.18	11.0	144.	ND	NC	341.	NC	NC
37.80	1537.	33.2	10.5	2584.	1.23	13.7	172.	ND	NC	354.	NC	NC
37.95	1589.	34.7	10.9	2678.	1.34	20.9	272.	ND	NC	366.	NC	NC
38.10	1653.	32.8	11.0	2717.	1.37	22.6	298.	ND	NC	380.	NC	NC
38.25	1642.	28.1	10.4	2553.	1.16	9.7	121.	ND	NC	378.	NC	NC
38.40	1603.	28.7	9.6	2357.	1.16	9.6	109.	ND	NC	369.	NC	NC
38.55	1588.	39.0	8.9	2187.	1.02	1.5	16.	ND	NC	365.	NC	NC
38.70	1555.	38.4	9.2	2267.	1.01	0.4	4.	ND	NC	358.	NC	NC
38.85	1544.	35.1	9.6	2354.	1.00	0.	0.	ND	NC	355.	NC	NC
39.00	1542.	35.9	9.8	2415.	1.04	2.5	30.	ND	NC	355.	NC	NC
39.15	1514.	37.6	11.1	2721.	1.20	12.4	164.	ND	NC	349.	NC	NC
39.30	1465.	35.1	10.3	2541.	1.13	7.8	97.	ND	NC	337.	NC	NC
39.45	1440.	34.5	10.3	2535.	1.07	4.4	54.	ND	NC	331.	NC	NC
39.60	1481.	36.9	10.5	2592.	1.29	17.7	222.	ND	NC	341.	NC	NC
39.75	1498.	37.0	10.7	2643.	1.36	21.9	282.	ND	NC	345.	NC	NC
39.90	1532.	35.9	10.7	2632.	1.13	7.8	99.	ND	NC	352.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1612.	35.6	10.6	2603.	1.22	13.4	169.	ND	NC	371.	NC	NC
40.20	1690.	36.3	10.7	2642.	1.33	19.7	253.	ND	NC	389.	NC	NC
40.35	1753.	36.0	10.7	2634.	1.17	10.6	136.	ND	NC	403.	NC	NC
40.50	1703.	35.1	10.3	2536.	1.18	10.8	133.	ND	NC	392.	NC	NC
40.65	1539.	36.2	10.7	2625.	1.17	10.3	132.	ND	NC	354.	NC	NC
40.80	1551.	38.2	10.2	2503.	1.17	10.3	125.	ND	NC	357.	NC	NC
40.95	1531.	36.6	10.1	2492.	1.24	14.5	176.	ND	NC	352.	NC	NC
41.10	1529.	36.4	10.1	2495.	1.10	5.8	71.	ND	NC	352.	NC	NC
41.25	1530.	39.2	9.9	2437.	1.20	12.2	144.	ND	NC	352.	NC	NC
41.40	1499.	38.6	10.1	2492.	1.30	18.5	223.	ND	NC	345.	NC	NC
41.55	1464.	34.6	10.3	2522.	1.17	10.5	128.	ND	NC	337.	NC	NC
41.70	1408.	35.8	10.1	2477.	1.18	10.8	130.	ND	NC	324.	NC	NC
41.85	1531.	38.2	10.0	2469.	1.27	16.2	194.	ND	NC	352.	NC	NC
42.00	1540.	35.2	10.3	2541.	1.18	11.1	137.	ND	NC	354.	NC	NC
42.15	1561.	32.5	10.0	2448.	1.14	8.5	101.	ND	NC	359.	NC	NC
42.30	1673.	33.5	10.1	2485.	1.16	9.9	119.	ND	NC	385.	NC	NC
42.45	1840.	38.0	9.7	2392.	1.05	2.9	33.	ND	NC	423.	NC	NC
42.60	1623.	34.6	9.8	2413.	1.08	4.7	55.	ND	NC	373.	NC	NC
42.75	1582.	34.6	10.1	2491.	1.05	3.0	37.	ND	NC	364.	NC	NC
42.90	1571.	40.1	10.1	2477.	1.10	5.9	71.	ND	NC	361.	NC	NC
43.05	1546.	40.6	10.0	2456.	1.20	12.3	147.	ND	NC	355.	NC	NC
43.20	1534.	37.8	10.5	2583.	1.18	10.8	136.	ND	NC	353.	NC	NC
43.35	1567.	38.6	10.2	2519.	1.10	6.3	78.	ND	NC	360.	NC	NC
43.50	1507.	42.4	10.4	2559.	1.20	11.9	148.	ND	NC	347.	NC	NC
43.65	1483.	39.7	10.7	2631.	1.26	15.6	199.	ND	NC	341.	NC	NC
43.80	1438.	35.1	10.2	2510.	1.10	6.3	76.	ND	NC	331.	NC	NC
43.95	1527.	36.1	10.2	2520.	1.20	11.9	146.	ND	NC	351.	NC	NC
44.10	1569.	37.5	10.7	2640.	1.23	14.2	182.	ND	NC	361.	NC	NC
44.25	1578.	34.8	10.8	2663.	1.15	9.1	117.	ND	NC	363.	NC	NC
44.40	1712.	34.6	10.2	2500.	1.13	7.8	94.	ND	NC	394.	NC	NC
44.55	1876.	37.7	10.5	2594.	1.16	9.6	121.	ND	NC	431.	NC	NC
44.70	1733.	36.9	10.6	2605.	1.13	8.0	101.	ND	NC	399.	NC	NC
44.85	1584.	34.6	10.7	2625.	1.13	8.1	103.	ND	NC	364.	NC	NC
45.00	1550.	35.1	10.4	2569.	1.09	5.2	65.	ND	NC	356.	NC	NC
45.15	1564.	39.8	10.4	2556.	1.17	10.2	126.	ND	NC	360.	NC	NC
45.30	1531.	36.9	10.4	2570.	1.21	12.6	157.	ND	NC	352.	NC	NC
45.45	1507.	34.7	10.5	2594.	1.09	5.5	69.	ND	NC	347.	NC	NC
45.60	1505.	37.2	10.4	2569.	1.08	5.1	63.	ND	NC	346.	NC	NC
45.75	1505.	37.5	10.2	2508.	1.15	9.0	110.	ND	NC	346.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 28 78
RUN NUMBER- 38
SEGMENT NUMBER- 2
WATER DEPTH- 16 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1503.	37.3	10.5	2587.	1.08	4.9	62.	ND	NC	346.	NC	NC
0.15	1500.	37.5	10.3	2542.	1.08	4.9	61.	ND	NC	345.	NC	NC
0.30	1504.	37.5	10.4	2560.	1.15	9.1	113.	ND	NC	346.	NC	NC
0.45	1469.	36.8	10.3	2540.	1.13	8.0	98.	ND	NC	338.	NC	NC
0.60	1446.	36.3	10.1	2490.	1.18	10.9	131.	ND	NC	333.	NC	NC
0.75	1532.	38.0	10.3	2540.	1.24	14.4	177.	ND	NC	352.	NC	NC
0.90	1582.	36.8	10.5	2574.	1.25	14.9	187.	ND	NC	364.	NC	NC
1.05	1646.	36.2	10.4	2560.	1.17	10.4	129.	ND	NC	379.	NC	NC
1.20	1837.	39.9	10.5	2581.	1.20	12.3	154.	ND	NC	422.	NC	NC
1.35	1857.	39.9	10.5	2585.	1.17	10.1	127.	ND	NC	427.	NC	NC
1.50	1594.	37.9	10.6	2603.	1.20	12.1	153.	ND	NC	367.	NC	NC
1.65	1552.	36.4	10.7	2620.	1.18	10.8	137.	ND	NC	357.	NC	NC
1.80	1537.	38.4	10.7	2625.	1.17	10.1	129.	ND	NC	353.	NC	NC
1.95	1525.	38.9	10.7	2629.	1.23	14.2	181.	ND	NC	351.	NC	NC
2.10	1521.	37.8	10.9	2670.	1.25	15.1	196.	ND	NC	350.	NC	NC
2.25	1543.	39.7	10.2	2507.	1.19	11.3	138.	ND	NC	355.	NC	NC
2.40	1524.	41.6	10.2	2509.	1.32	19.2	234.	ND	NC	351.	NC	NC
2.55	1479.	38.2	10.7	2639.	1.39	23.4	299.	ND	NC	340.	NC	NC
2.70	1457.	37.4	10.5	2574.	1.26	15.6	195.	ND	NC	335.	NC	NC
2.85	1485.	37.3	10.3	2536.	1.26	15.9	196.	ND	NC	342.	NC	NC
3.00	1579.	38.3	10.6	2604.	1.31	18.8	238.	ND	NC	363.	NC	NC
3.15	1631.	36.6	10.6	2617.	1.25	14.9	189.	ND	NC	375.	NC	NC
3.30	1752.	36.7	10.1	2480.	1.18	10.8	130.	ND	NC	403.	NC	NC
3.45	1728.	39.5	10.2	2507.	1.22	13.3	162.	ND	NC	397.	NC	NC
3.60	1635.	40.1	10.3	2536.	1.21	12.6	155.	ND	NC	376.	NC	NC
3.75	1549.	38.6	10.5	2590.	1.25	15.4	194.	ND	NC	356.	NC	NC
3.90	1528.	38.6	10.1	2480.	1.14	8.8	105.	ND	NC	351.	NC	NC
4.05	1516.	41.6	9.9	2424.	1.25	14.9	175.	ND	NC	349.	NC	NC
4.20	1518.	40.7	10.0	2463.	1.29	17.7	212.	ND	NC	349.	NC	NC
4.35	1503.	36.3	10.3	2524.	1.22	13.5	165.	ND	NC	346.	NC	NC
4.50	1471.	37.8	10.1	2484.	1.31	18.9	228.	ND	NC	338.	NC	NC
4.65	1468.	39.9	10.5	2590.	1.41	24.6	309.	ND	NC	338.	NC	NC
4.80	1478.	35.7	10.5	2577.	1.34	20.8	260.	ND	NC	340.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1488.	33.3	9.9	2447.	1.23	13.7	162.	ND	NC	342.	NC	NC
5.10	1535.	38.0	9.9	2431.	1.34	20.7	245.	ND	NC	353.	NC	NC
5.25	1734.	34.2	9.1	2235.	1.11	6.5	71.	ND	NC	399.	NC	NC
5.40	1823.	29.8	8.8	2161.	1.16	9.6	101.	ND	NC	419.	NC	NC
5.55	1567.	29.6	9.3	2287.	1.14	8.2	91.	ND	NC	369.	NC	NC
5.70	1540.	31.5	7.4	1812.	1.08	4.9	43.	ND	NC	354.	NC	NC
5.85	1548.	35.1	7.5	1856.	1.03	1.7	16.	ND	NC	356.	NC	NC
6.00	1538.	38.1	8.6	2112.	1.00	0.	0.	ND	NC	354.	NC	NC
6.15	1570.	41.9	7.9	1947.	1.06	3.4	32.	ND	NC	361.	NC	NC
6.30	1590.	44.6	9.5	2329.	1.24	14.6	165.	ND	NC	363.	NC	NC
6.45	1534.	38.1	10.5	2573.	1.33	20.1	251.	ND	NC	353.	NC	NC
6.60	1473.	38.0	9.8	2410.	1.17	10.0	117.	ND	NC	339.	NC	NC
6.75	1400.	39.1	9.9	2438.	1.28	16.9	200.	ND	NC	322.	NC	NC
6.90	1482.	38.9	10.4	2563.	1.37	22.6	281.	ND	NC	341.	NC	NC
7.05	1525.	36.3	10.8	2653.	1.38	23.2	299.	ND	NC	351.	NC	NC
7.20	1543.	35.5	9.8	2405.	1.24	14.4	168.	ND	NC	355.	NC	NC
7.35	1640.	40.5	10.1	2474.	1.32	19.3	232.	ND	NC	377.	NC	NC
7.50	1776.	37.1	11.3	2781.	1.32	19.6	264.	ND	NC	409.	NC	NC
7.65	1776.	35.6	10.5	2575.	1.27	16.7	208.	ND	NC	408.	NC	NC
7.80	1753.	35.0	9.0	2222.	1.20	11.8	128.	ND	NC	403.	NC	NC
7.95	1535.	37.9	9.8	2419.	1.28	16.8	197.	ND	NC	353.	NC	NC
8.10	1548.	39.6	9.0	2208.	1.24	14.3	153.	ND	NC	356.	NC	NC
8.25	1536.	39.9	7.8	1923.	1.02	1.2	11.	ND	NC	353.	NC	NC
8.40	1410.	46.2	7.8	1930.	1.21	13.0	121.	ND	NC	324.	NC	NC
8.55	1454.	41.2	9.9	2437.	1.40	24.2	287.	ND	NC	334.	NC	NC
8.70	1478.	38.0	9.9	2446.	1.31	18.5	220.	ND	NC	340.	NC	NC
8.85	1428.	34.5	9.5	2331.	1.14	8.8	99.	ND	NC	328.	NC	NC
9.00	1402.	33.2	10.2	2512.	1.32	19.4	237.	ND	NC	322.	NC	NC
9.15	1510.	36.6	9.5	2343.	1.33	20.2	230.	ND	NC	347.	NC	NC
9.30	1565.	31.2	8.3	2050.	1.01	0.5	5.	ND	NC	360.	NC	NC
9.45	1588.	29.8	7.2	1772.	1.00	0.	0.	ND	NC	365.	NC	NC
9.60	1560.	31.2	6.1	1491.	1.00	0.	0.	ND	NC	359.	NC	NC
9.75	1767.	39.7	5.5	1348.	1.01	0.4	3.	ND	NC	406.	NC	NC
9.90	1698.	39.9	7.0	1718.	1.01	0.3	3.	ND	NC	390.	NC	NC
10.05	1476.	36.8	7.1	1740.	1.02	1.0	8.	ND	NC	339.	NC	NC
10.20	1519.	35.9	8.7	2143.	1.07	4.4	46.	ND	NC	349.	NC	NC
10.35	1522.	36.2	10.0	2451.	1.20	12.0	143.	ND	NC	350.	NC	NC
10.50	1476.	36.7	9.1	2239.	1.13	7.9	86.	ND	NC	339.	NC	NC
10.65	1493.	44.1	10.2	2516.	1.30	18.4	224.	ND	NC	343.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1517.	39.0	10.6	2614.	1.30	18.4	234.	ND	NC	349.	NC	NC
10.95	1460.	32.4	10.2	2503.	1.26	16.0	195.	ND	NC	336.	NC	NC
11.10	1273.	45.1	9.5	2346.	1.16	9.9	113.	ND	NC	293.	NC	NC
11.25	1507.	40.4	9.6	2351.	1.04	2.6	30.	ND	NC	347.	NC	NC
11.40	1588.	34.4	9.9	2444.	1.01	0.4	5.	ND	NC	365.	NC	NC
11.55	1615.	34.1	9.1	2246.	1.02	1.0	11.	ND	NC	372.	NC	NC
11.70	1755.	37.2	9.4	2315.	1.10	6.1	69.	ND	NC	404.	NC	NC
11.85	1833.	38.5	10.5	2575.	1.34	20.4	255.	ND	NC	422.	NC	NC
12.00	1681.	36.5	10.1	2474.	1.20	12.3	148.	ND	NC	387.	NC	NC
12.15	1533.	38.8	9.4	2317.	1.13	7.9	89.	ND	NC	353.	NC	NC
12.30	1532.	43.6	9.8	2417.	1.30	18.2	213.	ND	NC	352.	NC	NC
12.45	1544.	39.0	9.9	2442.	1.37	22.4	266.	ND	NC	355.	NC	NC
12.60	1501.	35.1	9.4	2300.	1.30	18.0	201.	ND	NC	345.	NC	NC
12.75	1493.	42.1	9.7	2374.	1.25	15.0	172.	ND	NC	343.	NC	NC
12.90	1496.	41.5	10.1	2484.	1.38	22.8	275.	ND	NC	344.	NC	NC
13.05	1504.	36.1	10.4	2568.	1.30	18.2	227.	ND	NC	346.	NC	NC
13.20	1418.	35.0	10.1	2477.	1.20	12.4	149.	ND	NC	326.	NC	NC
13.35	1494.	38.3	9.6	2370.	1.30	18.3	210.	ND	NC	344.	NC	NC
13.50	1618.	38.9	9.6	2357.	1.03	1.8	21.	ND	NC	372.	NC	NC
13.65	1660.	34.6	9.4	2315.	1.12	7.3	82.	ND	NC	382.	NC	NC
13.80	1656.	34.4	9.3	2292.	1.17	10.4	116.	ND	NC	381.	NC	NC
13.95	1901.	41.3	9.2	2274.	1.10	6.0	66.	ND	NC	437.	NC	NC
14.10	1663.	39.7	8.6	2111.	1.09	5.4	55.	ND	NC	382.	NC	NC
14.25	1556.	37.6	9.9	2446.	1.07	4.3	51.	ND	NC	358.	NC	NC
14.40	1527.	39.6	9.8	2404.	1.06	3.9	46.	ND	NC	351.	NC	NC
14.55	1509.	41.5	9.4	2323.	1.17	10.6	119.	ND	NC	347.	NC	NC
14.70	1520.	37.5	9.0	2214.	1.18	10.8	116.	ND	NC	350.	NC	NC
14.85	1468.	34.8	8.7	2143.	1.14	8.3	87.	ND	NC	338.	NC	NC
15.00	1447.	41.8	9.3	2279.	1.14	8.4	92.	ND	NC	333.	NC	NC
15.15	1471.	40.8	9.7	2395.	1.18	11.2	130.	ND	NC	338.	NC	NC
15.30	1492.	34.1	9.6	2361.	1.16	9.6	110.	ND	NC	343.	NC	NC
15.45	1518.	36.3	9.1	2241.	1.16	9.9	108.	ND	NC	349.	NC	NC
15.60	1573.	38.6	9.8	2404.	1.19	11.4	132.	ND	NC	362.	NC	NC
15.75	1630.	38.1	10.1	2484.	1.20	12.2	147.	ND	NC	375.	NC	NC
15.90	1696.	37.7	10.0	2465.	1.12	7.2	86.	ND	NC	391.	NC	NC
16.05	1712.	39.6	10.2	2515.	1.11	6.7	82.	ND	NC	394.	NC	NC
16.20	1591.	40.3	10.3	2524.	1.12	7.2	89.	ND	NC	366.	NC	NC
16.35	1541.	38.2	10.3	2541.	1.12	7.0	86.	ND	NC	355.	NC	NC
16.50	1530.	37.6	10.4	2565.	1.08	4.6	58.	ND	NC	352.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1523.	40.2	9.8	2421.	1.09	5.8	68.	ND	NC	350.	NC	NC
16.80	1515.	39.7	9.6	2366.	1.13	7.6	87.	ND	NC	348.	NC	NC
16.95	1506.	39.1	10.5	2573.	1.11	6.5	82.	ND	NC	346.	NC	NC
17.10	1484.	38.5	10.0	2463.	1.08	4.8	58.	ND	NC	341.	NC	NC
17.25	1457.	37.9	9.9	2438.	1.14	8.4	100.	ND	NC	335.	NC	NC
17.40	1460.	38.8	10.5	2577.	1.16	9.9	123.	ND	NC	336.	NC	NC
17.55	1503.	38.0	10.1	2484.	1.11	6.8	82.	ND	NC	346.	NC	NC
17.70	1574.	38.2	10.2	2500.	1.14	8.5	104.	ND	NC	362.	NC	NC
17.85	1654.	38.5	10.5	2590.	1.13	8.1	102.	ND	NC	380.	NC	NC
18.00	1754.	37.9	10.4	2547.	1.11	6.4	80.	ND	NC	404.	NC	NC
18.15	1757.	37.9	10.1	2491.	1.09	5.5	67.	ND	NC	404.	NC	NC
18.30	1580.	38.4	10.4	2552.	1.11	6.8	84.	ND	NC	363.	NC	NC
18.45	1540.	38.3	10.4	2569.	1.14	8.7	109.	ND	NC	354.	NC	NC
18.60	1525.	37.4	10.5	2577.	1.10	6.2	77.	ND	NC	351.	NC	NC
18.75	1510.	37.0	10.3	2529.	1.06	3.6	44.	ND	NC	347.	NC	NC
18.90	1502.	37.2	10.1	2474.	1.09	5.4	65.	ND	NC	345.	NC	NC
19.05	1[illegible]	37.4	10.2	2503.	1.09	5.4	66.	ND	NC	344.	NC	NC
19.20	1463.	36.0	10.4	2558.	1.07	4.0	50.	ND	NC	336.	NC	NC
19.35	1418.	36.1	10.4	2560.	1.10	6.0	75.	ND	NC	326.	NC	NC
19.50	1464.	38.0	10.2	2497.	1.27	16.3	197.	ND	NC	337.	NC	NC
19.65	1509.	37.3	10.7	2628.	1.12	7.5	96.	ND	NC	347.	NC	NC
19.80	1560.	36.7	10.4	2566.	1.10	5.8	72.	ND	NC	359.	NC	NC
19.95	1663.	37.6	10.5	2571.	1.14	8.8	109.	ND	NC	383.	NC	NC
20.10	1760.	38.1	10.8	2652.	1.15	8.8	113.	ND	NC	405.	NC	NC
20.25	1687.	37.8	10.4	2567.	1.15	9.1	113.	ND	NC	388.	NC	NC
20.40	1603.	36.8	10.7	2634.	1.15	8.9	114.	ND	NC	369.	NC	NC
20.55	1541.	37.6	10.9	2691.	1.17	10.5	138.	ND	NC	354.	NC	NC
20.70	1535.	37.5	10.9	2670.	1.17	10.2	133.	ND	NC	353.	NC	NC
20.85	1527.	36.8	10.7	2621.	1.12	7.3	93.	ND	NC	351.	NC	NC
21.00	1516.	36.8	10.6	2607.	1.15	8.9	113.	ND	NC	349.	NC	NC
21.15	1500.	37.3	10.4	2568.	1.19	11.8	147.	ND	NC	345.	NC	NC
21.30	1472.	36.6	10.8	2661.	1.20	12.1	156.	ND	NC	339.	NC	NC
21.45	1420.	35.9	10.4	2554.	1.18	10.8	135.	ND	NC	326.	NC	NC
21.60	1447.	36.3	10.4	2547.	1.26	15.6	193.	ND	NC	333.	NC	NC
21.75	1521.	37.4	10.7	2621.	1.25	15.0	190.	ND	NC	350.	NC	NC
21.90	1553.	33.7	10.7	2640.	1.20	12.1	155.	ND	NC	357.	NC	NC
22.05	1598.	34.1	10.5	2587.	1.28	17.1	214.	ND	NC	368.	NC	NC
22.20	1780.	37.5	10.8	2663.	1.23	13.9	180.	ND	NC	409.	NC	NC
22.35	1769.	35.8	10.9	2683.	1.20	12.0	156.	ND	NC	407.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1572.	33.6	10.6	2616.	1.18	11.1	141.	ND	NC	362.	NC	NC
22.65	1517.	35.9	10.1	2478.	1.14	8.6	103.	ND	NC	349.	NC	NC
22.80	1517.	38.2	10.7	2641.	1.19	11.5	147.	ND	NC	349.	NC	NC
22.95	1502.	36.2	10.9	2682.	1.18	10.6	138.	ND	NC	345.	NC	NC
23.10	1492.	35.3	10.4	2552.	1.13	7.7	95.	ND	NC	343.	NC	NC
23.25	1496.	37.5	10.5	2572.	1.21	13.0	162.	ND	NC	343.	NC	NC
23.40	1496.	37.5	10.9	2674.	1.24	14.5	188.	ND	NC	344.	NC	NC
23.55	1427.	34.7	10.9	2679.	1.19	11.5	149.	ND	NC	328.	NC	NC
23.70	1401.	35.6	10.2	2496.	1.18	10.8	131.	ND	NC	322.	NC	NC
23.85	1481.	36.2	10.2	2519.	1.23	14.1	172.	ND	NC	341.	NC	NC
24.00	1560.	36.0	11.1	2721.	1.22	13.6	180.	ND	NC	359.	NC	NC
24.15	1590.	33.5	10.2	2497.	1.18	11.0	133.	ND	NC	366.	NC	NC
24.30	1703.	35.0	10.2	2505.	1.18	11.0	134.	ND	NC	392.	NC	NC
24.45	1841.	38.9	10.3	2525.	1.16	9.8	120.	ND	NC	423.	NC	NC
24.60	1711.	36.1	10.4	2557.	1.19	11.3	141.	ND	NC	393.	NC	NC
24.75	1507.	33.2	10.2	2507.	1.16	9.6	117.	ND	NC	347.	NC	NC
24.90	1535.	39.8	9.7	2389.	1.15	9.3	108.	ND	NC	353.	NC	NC
25.05	1535.	39.7	8.8	2156.	1.12	7.2	75.	ND	NC	353.	NC	NC
25.20	1523.	37.1	9.8	2399.	1.05	3.2	37.	ND	NC	350.	NC	NC
25.35	1520.	37.4	10.2	2508.	1.05	3.0	36.	ND	NC	350.	NC	NC
25.50	1511.	37.6	10.2	2510.	1.15	8.9	108.	ND	NC	347.	NC	NC
25.65	1481.	37.0	10.4	2561.	1.23	14.1	175.	ND	NC	341.	NC	NC
25.80	1444.	36.0	10.7	2631.	1.15	9.0	115.	ND	NC	332.	NC	NC
25.95	1446.	36.0	10.0	2470.	1.17	10.4	124.	ND	NC	333.	NC	NC
26.10	1589.	38.4	10.0	2470.	1.19	11.2	135.	ND	NC	365.	NC	NC
26.25	1611.	36.6	10.9	2669.	1.16	10.0	129.	ND	NC	371.	NC	NC
26.40	1670.	36.5	10.3	2527.	1.13	8.1	100.	ND	NC	384.	NC	NC
26.55	1742.	37.4	10.6	2612.	1.14	8.7	110.	ND	NC	401.	NC	NC
26.70	1669.	38.3	10.8	2666.	1.14	8.6	112.	ND	NC	384.	NC	NC
26.85	1542.	37.1	10.4	2564.	1.14	8.7	108.	ND	NC	355.	NC	NC
27.00	1534.	36.8	10.4	2552.	1.09	5.3	65.	ND	NC	353.	NC	NC
27.15	1529.	40.3	10.4	2550.	1.16	9.7	119.	ND	NC	352.	NC	NC
27.30	1510.	37.6	10.5	2593.	1.20	11.9	150.	ND	NC	347.	NC	NC
27.45	1501.	36.9	10.8	2644.	1.12	7.3	94.	ND	NC	345.	NC	NC
27.60	1491.	38.8	10.3	2521.	1.15	9.4	115.	ND	NC	343.	NC	NC
27.75	1463.	38.8	10.2	2505.	1.25	15.3	186.	ND	NC	336.	NC	NC
27.90	1465.	36.5	10.9	2685.	1.21	12.8	167.	ND	NC	337.	NC	NC
28.05	1494.	35.4	10.1	2495.	1.15	9.0	109.	ND	NC	344.	NC	NC
28.20	1576.	36.9	9.7	2392.	1.24	14.5	168.	ND	NC	362.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

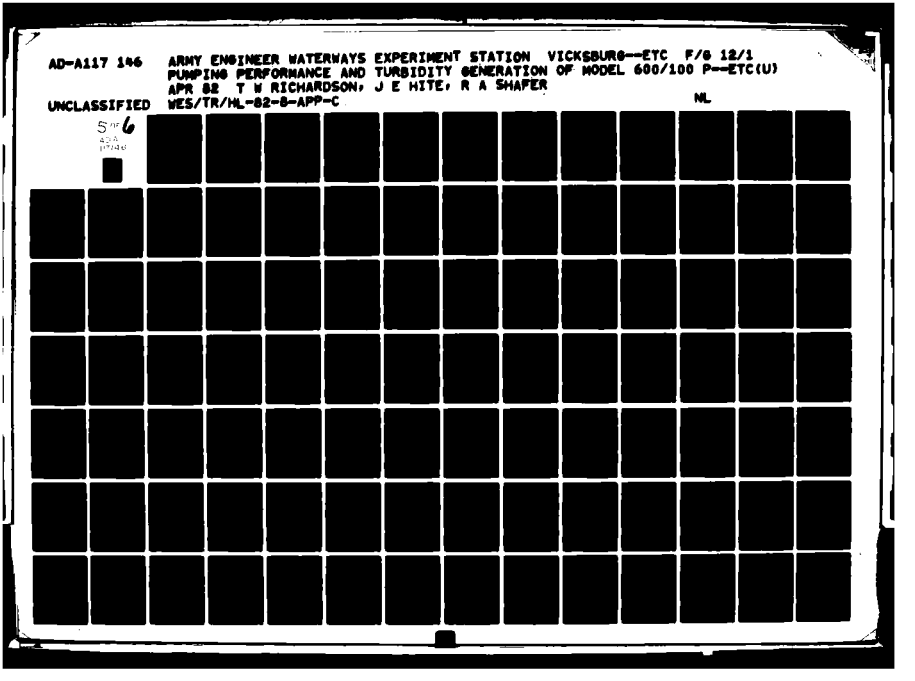
TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1663.	37.9	10.5	2592.	1.20	11.8	149.	ND	NC	382.	NC	NC
28.50	1722.	35.1	10.7	2635.	1.17	10.5	135.	ND	NC	396.	NC	NC
28.65	1715.	36.7	10.0	2470.	1.14	8.2	98.	ND	NC	394.	NC	NC
28.80	1586.	41.9	10.0	2447.	1.19	11.7	139.	ND	NC	365.	NC	NC
28.95	1562.	39.2	10.0	2448.	1.20	12.2	146.	ND	NC	359.	NC	NC
29.10	1520.	35.6	10.2	2498.	1.15	9.4	114.	ND	NC	350.	NC	NC
29.25	1521.	40.0	9.8	2404.	1.15	8.8	103.	ND	NC	350.	NC	NC
29.40	1529.	39.4	9.3	2289.	1.22	13.6	151.	ND	NC	352.	NC	NC
29.55	1504.	35.4	10.3	2528.	1.27	16.3	200.	ND	NC	346.	NC	NC
29.70	1386.	38.4	9.9	2435.	1.18	10.8	128.	ND	NC	319.	NC	NC
29.85	1380.	42.4	9.4	2299.	1.23	14.1	157.	ND	NC	317.	NC	NC
30.00	1489.	37.2	9.1	2237.	1.08	4.7	51.	ND	NC	342.	NC	NC
30.15	1480.	29.8	9.8	2410.	1.17	10.2	119.	ND	NC	340.	NC	NC
30.30	1533.	35.6	9.4	2318.	1.14	8.5	96.	ND	NC	353.	NC	NC
30.45	1719.	42.4	6.9	1693.	1.05	2.9	23.	ND	NC	395.	NC	NC
30.60	1786.	36.8	8.4	2076.	1.01	0.5	5.	ND	NC	411.	NC	NC
30.75	1750.	36.1	8.2	2018.	1.00	0.	0.	ND	NC	402.	NC	NC
30.90	1592.	43.0	7.8	1926.	1.20	12.4	116.	ND	NC	366.	NC	NC
31.05	1574.	43.4	11.0	2711.	1.23	13.7	181.	ND	NC	362.	NC	NC
31.20	1567.	39.7	10.4	2550.	1.20	12.1	150.	ND	NC	360.	NC	NC
31.35	1521.	39.2	9.6	2369.	1.10	5.9	68.	ND	NC	350.	NC	NC
31.50	1468.	45.9	10.0	2458.	1.22	13.6	162.	ND	NC	338.	NC	NC
31.65	1551.	42.1	10.4	2554.	1.28	16.9	210.	ND	NC	357.	NC	NC
31.80	1478.	34.7	10.4	2546.	1.23	13.8	171.	ND	NC	340.	NC	NC
31.95	1274.	45.2	9.5	2339.	1.21	12.9	147.	ND	NC	293.	NC	NC
32.10	1396.	48.9	7.0	1727.	1.23	14.0	117.	ND	NC	321.	NC	NC
32.25	1605.	40.2	10.9	2690.	1.21	12.4	162.	ND	NC	369.	NC	NC
32.40	1558.	35.7	9.8	2404.	1.16	9.9	115.	ND	NC	358.	NC	NC
32.55	1691.	38.0	9.4	2304.	1.20	12.2	136.	ND	NC	389.	NC	NC
32.70	2250.	43.4	8.7	2128.	1.17	10.5	109.	ND	NC	517.	NC	NC
32.85	1921.	39.2	8.9	2182.	1.06	3.5	37.	ND	NC	442.	NC	NC
33.00	1687.	38.4	9.0	2211.	1.06	3.7	40.	ND	NC	388.	NC	NC
33.15	1310.	54.9	8.8	2171.	1.12	7.5	79.	ND	NC	301.	NC	NC
33.30	1594.	53.0	9.0	2210.	1.17	10.3	110.	ND	NC	367.	NC	NC
33.45	1555.	39.1	10.4	2553.	1.12	7.1	88.	ND	NC	358.	NC	NC
33.60	1333.	52.2	10.3	2522.	1.10	6.1	75.	ND	NC	307.	NC	NC
33.75	1273.	51.4	9.8	2415.	1.17	10.4	121.	ND	NC	293.	NC	NC
33.90	1626.	44.2	9.6	2354.	1.12	7.2	82.	ND	NC	374.	NC	NC
34.05	1530.	38.8	10.1	2478.	1.09	5.3	64.	ND	NC	352.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1396.	44.8	8.9	2191.	1.14	8.3	88.	ND	NC	321.	NC	NC
34.35	1682.	47.4	8.2	2011.	1.14	8.8	86.	ND	NC	387.	NC	NC
34.50	1630.	39.1	9.7	2377.	1.12	7.4	85.	ND	NC	375.	NC	NC
34.65	1618.	36.7	10.4	2553.	1.09	5.3	66.	ND	NC	372.	NC	NC
34.80	1648.	46.1	9.7	2380.	1.12	7.3	84.	ND	NC	379.	NC	NC
34.95	1737.	40.8	9.3	2278.	1.10	6.0	66.	ND	NC	400.	NC	NC
35.10	1669.	38.8	10.1	2476.	1.09	5.2	63.	ND	NC	384.	NC	NC
35.25	1465.	45.7	10.4	2562.	1.08	4.9	61.	ND	NC	337.	NC	NC
35.40	1247.	56.2	9.1	2234.	1.10	6.0	65.	ND	NC	287.	NC	NC
35.55	1628.	43.5	9.3	2288.	1.09	5.6	62.	ND	NC	374.	NC	NC
35.70	1445.	41.0	10.6	2603.	1.06	3.7	47.	ND	NC	332.	NC	NC
35.85	1170.	54.5	10.7	2628.	1.06	3.8	48.	ND	NC	269.	NC	NC
36.00	1451.	45.7	8.3	2035.	1.08	4.7	47.	ND	NC	334.	NC	NC
36.15	1476.	38.7	10.5	2580.	1.07	4.2	52.	ND	NC	339.	NC	NC
36.30	1359.	39.0	10.9	2683.	1.06	3.8	49.	ND	NC	312.	NC	NC
36.45	1514.	42.5	9.7	2380.	1.07	4.5	52.	ND	NC	348.	NC	NC
36.60	1696.	45.6	9.7	2392.	1.05	3.3	38.	ND	NC	390.	NC	NC
36.75	1690.	36.0	10.8	2663.	1.07	4.4	57.	ND	NC	389.	NC	NC
36.90	1695.	36.7	10.1	2473.	1.09	5.2	63.	ND	NC	390.	NC	NC
37.05	2069.	47.6	9.8	2407.	1.08	4.8	56.	ND	NC	476.	NC	NC
37.20	1636.	43.5	9.8	2415.	1.08	4.9	58.	ND	NC	376.	NC	NC
37.35	1580.	37.5	10.6	2616.	1.06	3.9	50.	ND	NC	363.	NC	NC
37.50	1259.	53.5	10.9	2679.	1.05	3.3	43.	ND	NC	290.	NC	NC
37.65	1551.	49.5	11.0	2695.	1.07	4.1	54.	ND	NC	357.	NC	NC
37.80	1542.	39.2	11.3	2768.	1.17	10.2	137.	ND	NC	355.	NC	NC
37.95	1437.	39.6	11.4	2812.	1.06	3.6	49.	ND	NC	331.	NC	NC
38.10	1359.	40.9	11.2	2752.	1.07	4.3	57.	ND	NC	313.	NC	NC
38.25	1480.	34.2	11.2	2745.	1.23	14.0	186.	ND	NC	340.	NC	NC
38.40	1474.	29.6	10.7	2623.	1.18	11.1	141.	ND	NC	339.	NC	NC
38.55	1451.	30.0	10.1	2489.	1.06	3.6	44.	ND	NC	334.	NC	NC
38.70	1516.	35.0	10.9	2686.	1.14	8.8	114.	ND	NC	349.	NC	NC
38.85	1600.	33.6	11.5	2822.	1.16	9.8	135.	ND	NC	368.	NC	NC
39.00	1646.	34.0	11.1	2730.	1.07	4.2	56.	ND	NC	379.	NC	NC
39.15	1618.	35.9	10.8	2656.	1.08	4.6	59.	ND	NC	372.	NC	NC
39.30	1544.	36.4	11.3	2790.	1.11	6.6	89.	ND	NC	355.	NC	NC
39.45	1499.	35.0	11.6	2846.	1.13	7.7	107.	ND	NC	345.	NC	NC
39.60	1492.	34.7	11.4	2791.	1.06	3.7	49.	ND	NC	343.	NC	NC
39.75	1491.	35.9	11.2	2746.	1.04	2.3	30.	ND	NC	343.	NC	NC
39.90	1483.	34.3	11.2	2764.	1.10	6.1	82.	ND	NC	341.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1469.	33.7	11.5	2837.	1.10	6.1	84.	ND	NC	338.	NC	NC
40.20	1435.	34.5	11.3	2777.	1.04	2.2	29.	ND	NC	330.	NC	NC
40.35	1423.	34.6	10.9	2668.	1.08	4.9	64.	ND	NC	327.	NC	NC
40.50	1456.	34.4	11.2	2747.	1.15	8.9	119.	ND	NC	335.	NC	NC
40.65	1485.	34.0	11.2	2760.	1.07	4.3	58.	ND	NC	342.	NC	NC
40.80	1535.	34.2	11.0	2700.	1.07	4.2	55.	ND	NC	353.	NC	NC
40.95	1647.	34.8	11.4	2801.	1.19	11.2	153.	ND	NC	379.	NC	NC
41.10	1667.	34.5	11.0	2702.	1.13	8.1	106.	ND	NC	383.	NC	NC
41.25	1620.	34.8	10.7	2621.	1.10	6.1	77.	ND	NC	373.	NC	NC
41.40	1494.	36.7	10.6	2596.	1.09	5.2	65.	ND	NC	344.	NC	NC
41.55	1499.	36.9	11.2	2750.	1.11	6.4	86.	ND	NC	345.	NC	NC
41.70	1485.	35.5	10.7	2625.	1.14	8.2	105.	ND	NC	341.	NC	NC
41.85	1487.	36.2	10.6	2618.	1.07	4.4	56.	ND	NC	342.	NC	NC
42.00	1486.	36.7	10.7	2643.	1.08	4.7	61.	ND	NC	342.	NC	NC
42.15	1475.	35.0	10.9	2668.	1.18	10.7	139.	ND	NC	339.	NC	NC
42.30	1446.	34.6	10.8	2667.	1.12	7.1	92.	ND	NC	333.	NC	NC
42.45	1419.	35.2	10.7	2624.	1.09	5.6	72.	ND	NC	326.	NC	NC
42.60	1457.	35.8	10.4	2564.	1.12	7.2	93.	ND	NC	335.	NC	NC
42.75	1485.	35.2	10.7	2640.	1.16	9.9	127.	ND	NC	342.	NC	NC
42.90	1541.	35.0	10.6	2616.	1.11	6.4	81.	ND	NC	354.	NC	NC
43.05	1644.	35.1	10.7	2619.	1.14	8.4	107.	ND	NC	378.	NC	NC
43.20	1679.	35.2	11.1	2721.	1.20	12.4	163.	ND	NC	386.	NC	NC
43.35	1660.	35.0	10.8	2665.	1.16	9.8	127.	ND	NC	382.	NC	NC
43.50	1594.	35.1	10.7	2625.	1.11	6.6	84.	ND	NC	367.	NC	NC
43.65	1496.	35.6	10.8	2667.	1.13	7.8	101.	ND	NC	344.	NC	NC
43.80	1489.	35.4	10.9	2689.	1.15	9.0	117.	ND	NC	342.	NC	NC
43.95	1485.	34.5	10.7	2633.	1.10	6.0	77.	ND	NC	342.	NC	NC
44.10	1478.	34.9	10.9	2673.	1.08	4.9	64.	ND	NC	340.	NC	NC
44.25	1456.	35.0	10.7	2629.	1.12	7.5	96.	ND	NC	335.	NC	NC
44.40	1448.	34.9	10.7	2626.	1.17	10.3	132.	ND	NC	333.	NC	NC
44.55	1404.	34.6	10.7	2628.	1.09	5.8	73.	ND	NC	323.	NC	NC
44.70	1410.	34.4	10.7	2623.	1.11	6.5	82.	ND	NC	324.	NC	NC
44.85	1511.	34.8	10.7	2624.	1.16	9.8	125.	ND	NC	347.	NC	NC
45.00	1531.	34.3	10.7	2636.	1.11	6.4	82.	ND	NC	352.	NC	NC
45.15	1554.	34.6	10.6	2602.	1.10	6.1	78.	ND	NC	357.	NC	NC
45.30	1624.	34.7	10.5	2588.	1.13	7.9	100.	ND	NC	373.	NC	NC
45.45	1699.	34.9	10.7	2637.	1.15	8.8	113.	ND	NC	391.	NC	NC
45.60	1528.	34.6	10.8	2647.	1.11	6.5	84.	ND	NC	351.	NC	NC
45.75	1485.	35.0	10.8	2645.	1.12	7.3	94.	ND	NC	342.	NC	NC
45.90	1473.	35.2	10.7	2639.	1.15	9.2	118.	ND	NC	339.	NC	NC


AD-A117 146
ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER
UNCLASSIFIED
WES/TR/HL-82-8-APP-C
NL
5 OF 6

LOCATION- MASONBORO INLET
DATE OF TEST- 9 28 78
RUN NUMBER- 38
SEGMENT NUMBER- 3
WATER DEPTH- 17 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 1520 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1660.	34.7	10.8	2644.	1.18	10.7	137.	ND	NC	382.	NC	NC
0.15	1522.	34.7	10.9	2679.	1.11	6.5	85.	ND	NC	350.	NC	NC
0.30	1482.	35.4	11.0	2707.	1.12	7.4	97.	ND	NC	341.	NC	NC
0.45	1469.	35.2	10.8	2654.	1.15	9.1	118.	ND	NC	338.	NC	NC
0.60	1483.	34.9	10.8	2662.	1.16	9.5	122.	ND	NC	341.	NC	NC
0.75	1493.	34.6	11.0	2711.	1.10	6.2	81.	ND	NC	343.	NC	NC
0.90	1470.	35.0	10.9	2664.	1.12	7.3	95.	ND	NC	338.	NC	NC
1.05	1438.	35.4	10.8	2651.	1.20	12.2	157.	ND	NC	331.	NC	NC
1.20	1419.	35.3	10.9	2673.	1.15	9.2	120.	ND	NC	326.	NC	NC
1.35	1407.	35.5	10.9	2687.	1.13	7.9	104.	ND	NC	324.	NC	NC
1.50	1484.	35.2	10.8	2649.	1.19	11.6	150.	ND	NC	341.	NC	NC
1.65	1518.	35.4	10.6	2613.	1.20	12.3	157.	ND	NC	349.	NC	NC
1.80	1584.	35.3	10.8	2663.	1.19	11.6	150.	ND	NC	364.	NC	NC
1.95	1663.	35.2	11.0	2699.	1.18	10.8	141.	ND	NC	382.	NC	NC
2.10	1693.	35.4	10.8	2664.	1.26	15.5	200.	ND	NC	389.	NC	NC
2.25	1557.	35.4	10.7	2642.	1.17	10.5	134.	ND	NC	358.	NC	NC
2.40	1500.	35.2	10.8	2650.	1.14	8.7	112.	ND	NC	345.	NC	NC
2.55	1501.	35.7	10.9	2685.	1.14	8.7	113.	ND	NC	345.	NC	NC
2.70	1494.	34.9	10.8	2654.	1.21	12.5	161.	ND	NC	344.	NC	NC
2.85	1470.	32.8	10.6	2606.	1.16	9.7	123.	ND	NC	338.	NC	NC
3.00	1478.	34.5	10.6	2599.	1.15	8.8	111.	ND	NC	340.	NC	NC
3.15	1434.	35.2	10.9	2669.	1.16	9.9	128.	ND	NC	330.	NC	NC
3.30	1425.	35.2	10.8	2650.	1.26	15.6	201.	ND	NC	328.	NC	NC
3.45	1422.	34.9	10.8	2645.	1.16	9.6	124.	ND	NC	327.	NC	NC
3.60	1424.	35.0	10.6	2598.	1.16	9.5	120.	ND	NC	328.	NC	NC
3.75	1494.	35.6	10.5	2579.	1.29	17.7	222.	ND	NC	344.	NC	NC
3.90	1547.	36.1	10.5	2594.	1.26	15.8	199.	ND	NC	356.	NC	NC
4.05	1602.	35.8	10.6	2599.	1.19	11.7	148.	ND	NC	369.	NC	NC
4.20	1725.	36.0	10.8	2649.	1.22	13.3	171.	ND	NC	397.	NC	NC
4.35	1586.	35.9	10.7	2639.	1.26	15.8	202.	ND	NC	365.	NC	NC
4.50	1504.	35.5	10.4	2561.	1.20	12.1	151.	ND	NC	346.	NC	NC
4.65	1488.	35.7	10.4	2569.	1.14	8.3	103.	ND	NC	342.	NC	NC
4.80	1483.	36.2	10.7	2634.	1.14	8.8	112.	ND	NC	341.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1462.	35.7	10.5	2580.	1.22	13.6	170.	ND	NC	336.	NC	NC
5.10	1449.	35.2	10.6	2603.	1.14	8.6	108.	ND	NC	333.	NC	NC
5.25	1438.	35.4	10.7	2643.	1.14	8.4	108.	ND	NC	331.	NC	NC
5.40	1428.	35.1	10.7	2626.	1.20	11.9	151.	ND	NC	329.	NC	NC
5.55	1430.	34.9	10.7	2623.	1.19	11.4	145.	ND	NC	329.	NC	NC
5.70	1466.	35.4	10.7	2644.	1.15	9.2	119.	ND	NC	337.	NC	NC
5.85	1515.	35.7	10.7	2621.	1.18	11.2	142.	ND	NC	348.	NC	NC
6.00	1552.	35.8	10.7	2633.	1.27	16.4	213.	ND	NC	357.	NC	NC
6.15	1629.	35.6	10.8	2654.	1.21	12.6	163.	ND	NC	375.	NC	NC
6.30	1663.	35.4	10.6	2616.	1.17	10.5	134.	ND	NC	382.	NC	NC
6.45	1589.	35.8	10.7	2641.	1.21	12.5	160.	ND	NC	365.	NC	NC
6.60	1505.	35.4	10.7	2619.	1.21	12.8	162.	ND	NC	346.	NC	NC
6.75	1494.	34.9	10.6	2595.	1.14	8.4	106.	ND	NC	344.	NC	NC
6.90	1493.	35.0	10.6	2613.	1.12	7.5	95.	ND	NC	344.	NC	NC
7.05	1461.	35.8	10.8	2656.	1.15	9.3	123.	ND	NC	336.	NC	NC
7.20	1409.	30.7	10.3	2542.	1.17	10.1	125.	ND	NC	324.	NC	NC
7.35	1421.	32.2	10.1	2495.	1.08	5.1	62.	ND	NC	327.	NC	NC
7.50	1424.	34.2	10.6	2596.	1.15	9.3	117.	ND	NC	327.	NC	NC
7.65	1415.	33.0	10.7	2630.	1.18	11.1	142.	ND	NC	325.	NC	NC
7.80	1434.	30.7	10.4	2559.	1.14	8.3	103.	ND	NC	330.	NC	NC
7.95	1477.	33.2	10.6	2606.	1.17	10.1	128.	ND	NC	340.	NC	NC
8.10	1524.	34.3	10.9	2676.	1.19	11.6	151.	ND	NC	350.	NC	NC
8.25	1596.	31.3	10.5	2586.	1.18	11.1	143.	ND	NC	367.	NC	NC
8.40	1611.	33.1	10.2	2515.	1.13	7.8	96.	ND	NC	371.	NC	NC
8.55	1588.	35.5	11.1	2740.	1.13	7.8	104.	ND	NC	365.	NC	NC
8.70	1535.	35.3	11.1	2741.	1.17	10.6	141.	ND	NC	353.	NC	NC
8.85	1494.	34.6	11.2	2743.	1.12	7.3	97.	ND	NC	344.	NC	NC
9.00	1492.	34.9	11.1	2725.	1.07	4.0	52.	ND	NC	343.	NC	NC
9.15	1477.	35.4	11.0	2712.	1.08	5.1	67.	ND	NC	340.	NC	NC
9.30	1473.	35.0	11.1	2718.	1.14	8.4	111.	ND	NC	339.	NC	NC
9.45	1458.	34.5	10.8	2663.	1.12	7.3	94.	ND	NC	335.	NC	NC
9.60	1446.	34.4	11.1	2723.	1.11	6.6	87.	ND	NC	333.	NC	NC
9.75	1420.	34.9	11.1	2720.	1.13	7.6	101.	ND	NC	327.	NC	NC
9.90	1445.	34.9	11.2	2743.	1.16	9.6	128.	ND	NC	332.	NC	NC
10.05	1479.	34.5	11.2	2751.	1.10	5.8	78.	ND	NC	340.	NC	NC
10.20	1525.	34.4	11.0	2711.	1.10	6.2	81.	ND	NC	351.	NC	NC
10.35	1601.	34.8	11.2	2753.	1.16	9.5	127.	ND	NC	368.	NC	NC
10.50	1648.	34.6	11.2	2743.	1.12	7.1	94.	ND	NC	379.	NC	NC
10.65	1651.	34.9	11.0	2716.	1.09	5.8	76.	ND	NC	380.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1520.	35.2	11.0	2710.	1.11	6.4	84.	ND	NC	353.	NC	NC
10.95	1518.	35.0	11.0	2716.	1.13	7.8	103.	ND	NC	349.	NC	NC
11.10	1488.	35.2	11.0	2699.	1.10	6.2	82.	ND	NC	342.	NC	NC
11.25	1496.	34.3	10.9	2678.	1.07	4.5	59.	ND	NC	343.	NC	NC
11.40	1462.	33.4	10.6	2616.	1.08	4.8	61.	ND	NC	336.	NC	NC
11.55	1440.	33.8	10.8	2663.	1.18	10.6	138.	ND	NC	331.	NC	NC
11.70	1437.	34.3	11.0	2695.	1.19	11.5	150.	ND	NC	330.	NC	NC
11.85	1433.	34.6	10.9	2687.	1.07	4.4	57.	ND	NC	330.	NC	NC
12.00	1439.	34.6	10.9	2689.	1.13	7.8	102.	ND	NC	331.	NC	NC
12.15	1458.	34.1	11.0	2715.	1.12	7.1	94.	ND	NC	335.	NC	NC
12.30	1506.	34.7	11.1	2732.	1.08	4.6	61.	ND	NC	346.	NC	NC
12.45	1567.	35.1	10.9	2672.	1.10	6.1	79.	ND	NC	360.	NC	NC
12.60	1640.	35.0	10.6	2615.	1.19	11.5	147.	ND	NC	377.	NC	NC
12.75	1653.	34.5	10.7	2633.	1.20	12.1	155.	ND	NC	380.	NC	NC
12.90	1593.	35.1	10.7	2626.	1.15	9.3	119.	ND	NC	366.	NC	NC
13.05	1494.	36.0	10.8	2647.	1.19	11.6	149.	ND	NC	344.	NC	NC
13.20	1498.	36.0	10.9	2677.	1.25	15.3	198.	ND	NC	345.	NC	NC
13.35	1498.	34.9	10.8	2657.	1.18	10.8	140.	ND	NC	345.	NC	NC
13.50	1473.	35.8	10.8	2649.	1.12	7.2	93.	ND	NC	339.	NC	NC
13.65	1449.	35.0	10.8	2654.	1.24	14.4	186.	ND	NC	333.	NC	NC
13.80	1445.	35.2	10.6	2614.	1.25	14.9	189.	ND	NC	332.	NC	NC
13.95	1412.	35.0	10.9	2692.	1.14	8.7	114.	ND	NC	325.	NC	NC
14.10	1425.	34.4	11.2	2748.	1.14	8.6	114.	ND	NC	328.	NC	NC
14.25	1477.	33.6	11.4	2801.	1.26	15.8	215.	ND	NC	340.	NC	NC
14.40	1504.	33.8	11.6	2851.	1.08	5.0	70.	ND	NC	346.	NC	NC
14.55	1553.	34.4	11.5	2832.	1.08	4.8	65.	ND	NC	357.	NC	NC
14.70	1623.	35.0	11.5	2825.	1.11	6.9	95.	ND	NC	373.	NC	NC
14.85	1666.	33.9	11.6	2841.	1.10	6.1	84.	ND	NC	383.	NC	NC
15.00	1579.	33.9	11.4	2798.	1.07	4.4	59.	ND	NC	363.	NC	NC
15.15	1505.	34.7	11.4	2811.	1.07	4.4	61.	ND	NC	346.	NC	NC
15.30	1485.	34.5	11.2	2747.	1.08	4.6	61.	ND	NC	342.	NC	NC
15.45	1467.	34.0	11.4	2798.	1.06	3.8	52.	ND	NC	337.	NC	NC
15.60	1467.	33.2	10.5	2586.	1.05	3.1	38.	ND	NC	337.	NC	NC
15.75	1457.	33.4	10.8	2660.	1.10	5.9	76.	ND	NC	335.	NC	NC
15.90	1403.	31.6	10.6	2599.	1.08	4.6	58.	ND	NC	323.	NC	NC
16.05	1381.	26.1	9.6	2354.	1.14	8.3	95.	ND	NC	318.	NC	NC
16.20	1387.	32.2	8.2	2016.	1.13	7.9	78.	ND	NC	319.	NC	NC
16.35	1424.	34.5	10.5	2577.	1.01	0.5	6.	ND	NC	327.	NC	NC
16.50	1416.	28.0	9.5	2324.	1.03	1.7	20.	ND	NC	326.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT H.P	PUMP OUTPUT HP	PUMP EFF
16.65	1417.	25.1	10.6	2609.	1.04	2.5	31.	ND	NC	326.	NC	NC
16.80	1572.	27.4	6.9	1696.	1.01	0.5	4.	ND	NC	362.	NC	NC
16.95	1708.	34.3	10.1	2477.	1.01	0.5	6.	ND	NC	393.	NC	NC
17.10	1500.	25.8	9.2	2251.	1.01	0.5	5.	ND	NC	345.	NC	NC
17.25	1439.	25.3	7.7	1899.	1.01	0.6	5.	ND	NC	331.	NC	NC
17.40	1481.	34.9	7.7	1665.	1.01	0.5	4.	ND	NC	341.	NC	NC
17.55	1477.	34.9	9.5	2330.	1.01	0.5	5.	ND	NC	340.	NC	NC
17.70	1440.	33.4	10.6	2609.	1.02	1.4	17.	ND	NC	331.	NC	NC
17.85	1458.	33.7	11.4	2804.	1.11	6.8	92.	ND	NC	335.	NC	NC
18.00	1457.	33.1	11.6	2846.	1.15	9.1	126.	ND	NC	335.	NC	NC
18.15	1378.	30.5	11.3	2778.	1.06	3.6	49.	ND	NC	317.	NC	NC
18.30	1406.	30.2	11.3	2768.	1.13	8.0	108.	ND	NC	323.	NC	NC
18.45	1444.	31.2	11.5	2833.	1.18	11.0	152.	ND	NC	332.	NC	NC
18.60	1473.	31.3	12.0	2955.	1.01	0.7	10.	ND	NC	339.	NC	NC
18.75	1504.	31.7	12.1	2986.	1.05	3.2	47.	ND	NC	346.	NC	NC
18.90	1595.	33.1	11.7	2870.	1.10	6.1	85.	ND	NC	367.	NC	NC
19.05	1639.	34.1	10.9	2680.	1.08	5.0	65.	ND	NC	377.	NC	NC
19.20	1602.	34.8	10.8	2657.	1.12	7.6	97.	ND	NC	368.	NC	NC
19.35	1507.	35.0	10.8	2659.	1.17	10.3	133.	ND	NC	347.	NC	NC
19.50	1485.	35.2	10.8	2653.	1.18	11.1	143.	ND	NC	341.	NC	NC
19.65	1482.	34.9	10.6	2596.	1.15	9.4	118.	ND	NC	341.	NC	NC
19.80	1466.	33.9	10.6	2607.	1.14	8.3	105.	ND	NC	337.	NC	NC
19.95	1472.	32.2	10.3	2526.	1.13	8.0	98.	ND	NC	338.	NC	NC
20.10	1432.	30.6	10.2	2506.	1.16	9.4	114.	ND	NC	329.	NC	NC
20.25	1399.	32.2	10.3	2537.	1.17	10.3	126.	ND	NC	322.	NC	NC
20.40	1397.	33.2	10.2	2517.	1.14	8.2	100.	ND	NC	321.	NC	NC
20.55	1409.	31.3	9.8	2418.	1.23	14.2	166.	ND	NC	324.	NC	NC
20.70	1440.	30.4	9.5	2335.	1.29	17.4	197.	ND	NC	331.	NC	NC
20.85	1493.	33.5	10.1	2493.	1.28	16.9	204.	ND	NC	343.	NC	NC
21.00	1543.	34.4	10.8	2665.	1.14	8.5	110.	ND	NC	355.	NC	NC
21.15	1675.	34.8	11.2	2766.	1.10	6.3	85.	ND	NC	385.	NC	NC
21.30	1627.	35.3	11.3	2767.	1.09	5.6	75.	ND	NC	374.	NC	NC
21.45	1551.	35.8	11.3	2769.	1.08	4.7	64.	ND	NC	357.	NC	NC
21.60	1478.	35.9	11.2	2747.	1.07	4.5	60.	ND	NC	340.	NC	NC
21.75	1469.	36.1	11.0	2700.	1.08	5.1	66.	ND	NC	338.	NC	NC
21.90	1468.	35.3	10.8	2651.	1.12	7.3	94.	ND	NC	338.	NC	NC
22.05	1467.	34.9	10.8	2662.	1.10	6.1	79.	ND	NC	337.	NC	NC
22.20	1453.	35.0	11.0	2703.	1.10	5.9	77.	ND	NC	334.	NC	NC
22.35	1421.	34.8	10.6	2614.	1.14	8.4	107.	ND	NC	327.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1407.	34.4	10.8	2664.	1.16	10.0	129.	ND	NC	324.	NC	NC
22.65	1428.	34.7	11.1	2722.	1.07	4.5	59.	ND	NC	328.	NC	NC
22.80	1482.	35.3	11.0	2709.	1.11	6.6	87.	ND	NC	341.	NC	NC
22.95	1529.	35.4	10.9	2670.	1.15	8.8	114.	ND	NC	352.	NC	NC
23.10	1555.	35.2	11.3	2774.	1.11	6.4	86.	ND	NC	358.	NC	NC
23.25	1582.	35.3	11.2	2762.	1.10	6.1	82.	ND	NC	364.	NC	NC
23.40	1632.	35.2	10.9	2692.	1.12	7.4	96.	ND	NC	375.	NC	NC
23.55	1569.	35.2	11.1	2733.	1.13	7.7	102.	ND	NC	361.	NC	NC
23.70	1481.	35.2	11.3	2771.	1.12	7.1	95.	ND	NC	341.	NC	NC
23.85	1469.	34.4	10.9	2689.	1.08	4.8	63.	ND	NC	338.	NC	NC
24.00	1434.	31.8	10.2	2500.	1.08	4.9	59.	ND	NC	330.	NC	NC
24.15	1434.	34.8	10.4	2565.	1.12	7.1	88.	ND	NC	339.	NC	NC
24.30	1439.	34.8	11.5	2830.	1.08	4.6	63.	ND	NC	331.	NC	NC
24.45	1420.	36.0	11.3	2772.	1.06	3.9	52.	ND	NC	327.	NC	NC
24.60	1416.	35.0	10.9	2678.	1.17	10.5	137.	ND	NC	326.	NC	NC
24.75	1423.	34.3	11.4	2804.	1.16	9.8	133.	ND	NC	327.	NC	NC
24.90	1421.	34.2	11.3	2790.	1.10	6.3	85.	ND	NC	327.	NC	NC
25.05	1518.	34.7	10.8	2649.	1.14	8.3	106.	ND	NC	349.	NC	NC
25.20	1557.	35.0	11.2	2759.	1.15	9.3	125.	ND	NC	358.	NC	NC
25.35	1619.	35.0	11.1	2741.	1.12	7.1	94.	ND	NC	372.	NC	NC
25.50	1638.	34.8	10.9	2689.	1.10	6.0	78.	ND	NC	377.	NC	NC
25.65	1608.	36.5	11.2	2750.	1.11	6.6	88.	ND	NC	370.	NC	NC
25.80	1480.	36.3	11.2	2743.	1.11	6.8	90.	ND	NC	340.	NC	NC
25.95	1476.	36.1	11.0	2714.	1.08	4.8	63.	ND	NC	340.	NC	NC
26.10	1472.	36.4	10.9	2683.	1.08	4.6	59.	ND	NC	339.	NC	NC
26.25	1465.	35.5	11.1	2730.	1.10	6.0	79.	ND	NC	337.	NC	NC
26.40	1452.	34.5	11.3	2790.	1.12	7.0	95.	ND	NC	334.	NC	NC
26.55	1427.	34.3	11.3	2785.	1.07	4.5	61.	ND	NC	328.	NC	NC
26.70	1411.	34.7	11.1	2738.	1.09	5.5	73.	ND	NC	325.	NC	NC
26.85	1408.	34.8	11.2	2744.	1.11	6.5	87.	ND	NC	324.	NC	NC
27.00	1406.	34.1	11.2	2757.	1.08	4.7	63.	ND	NC	323.	NC	NC
27.15	1480.	33.9	11.2	2748.	1.08	4.6	61.	ND	NC	340.	NC	NC
27.30	1523.	34.5	11.2	2745.	1.09	5.7	75.	ND	NC	350.	NC	NC
27.45	1576.	34.6	11.2	2753.	1.09	5.5	73.	ND	NC	363.	NC	NC
27.60	1634.	34.9	11.2	2755.	1.08	4.6	61.	ND	NC	376.	NC	NC
27.75	1527.	35.6	10.7	2639.	1.10	5.8	74.	ND	NC	351.	NC	NC
27.90	1465.	35.9	10.6	2617.	1.10	5.9	75.	ND	NC	337.	NC	NC
28.05	1459.	35.3	10.7	2633.	1.10	5.9	75.	ND	NC	336.	NC	NC
28.20	1448.	34.9	10.6	2619.	1.09	5.4	68.	ND	NC	333.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1443.	34.8	10.7	2642.	1.10	6.0	77.	ND	NC	332.	NC	NC
28.50	1444.	34.1	10.9	2682.	1.13	7.8	101.	ND	NC	332.	NC	NC
28.65	1440.	34.3	10.9	2677.	1.09	5.7	75.	ND	NC	331.	NC	NC
28.80	1426.	34.8	10.7	2640.	1.10	5.8	74.	ND	NC	328.	NC	NC
28.95	1407.	34.4	10.7	2633.	1.11	6.6	84.	ND	NC	324.	NC	NC
29.10	1451.	34.6	11.3	2780.	1.10	6.1	83.	ND	NC	334.	NC	NC
29.25	1474.	34.9	11.2	2743.	1.10	6.3	84.	ND	NC	339.	NC	NC
29.40	1503.	35.1	10.7	2631.	1.13	7.7	98.	ND	NC	346.	NC	NC
29.55	1543.	34.8	11.0	2706.	1.12	7.6	99.	ND	NC	355.	NC	NC
29.70	1603.	34.5	10.9	2690.	1.10	6.0	79.	ND	NC	369.	NC	NC
29.85	1536.	35.3	10.5	2592.	1.11	6.9	87.	ND	NC	353.	NC	NC
30.00	1485.	35.9	10.4	2558.	1.10	6.3	78.	ND	NC	341.	NC	NC
30.15	1470.	35.7	10.5	2573.	1.10	6.0	75.	ND	NC	338.	NC	NC
30.30	1457.	35.3	10.7	2634.	1.10	5.8	75.	ND	NC	335.	NC	NC
30.45	1444.	34.9	10.6	2618.	1.09	5.7	72.	ND	NC	332.	NC	NC
30.60	1442.	35.1	10.8	2659.	1.13	7.8	101.	ND	NC	332.	NC	NC
30.75	1427.	34.9	11.1	2722.	1.12	7.2	95.	ND	NC	328.	NC	NC
30.90	1417.	34.4	10.8	2650.	1.11	6.7	86.	ND	NC	326.	NC	NC
31.05	1406.	34.1	10.7	2622.	1.15	9.1	116.	ND	NC	323.	NC	NC
31.20	1409.	34.5	11.0	2715.	1.15	9.3	123.	ND	NC	324.	NC	NC
31.35	1439.	35.1	10.7	2639.	1.15	8.8	113.	ND	NC	331.	NC	NC
31.50	1490.	35.9	10.8	2667.	1.16	9.6	125.	ND	NC	343.	NC	NC
31.65	1534.	34.4	11.0	2707.	1.19	11.8	155.	ND	NC	353.	NC	NC
31.80	1642.	34.9	10.9	2680.	1.17	10.4	135.	ND	NC	376.	NC	NC
31.95	1647.	36.0	10.5	2593.	1.16	9.9	125.	ND	NC	379.	NC	NC
32.10	1527.	36.6	10.9	2676.	1.18	10.7	139.	ND	NC	351.	NC	NC
32.25	1457.	36.4	11.2	2752.	1.19	11.6	156.	ND	NC	335.	NC	NC
32.40	1455.	36.3	11.1	2739.	1.17	10.2	136.	ND	NC	335.	NC	NC
32.55	1454.	36.5	10.9	2675.	1.13	8.2	106.	ND	NC	334.	NC	NC
32.70	1454.	37.3	10.7	2641.	1.20	12.0	153.	ND	NC	334.	NC	NC
32.85	1446.	35.9	10.7	2627.	1.21	12.5	159.	ND	NC	333.	NC	NC
33.00	1429.	34.2	10.6	2605.	1.17	10.1	128.	ND	NC	329.	NC	NC
33.15	1391.	34.7	10.3	2523.	1.21	12.5	153.	ND	NC	320.	NC	NC
33.30	1421.	35.4	10.6	2608.	1.27	16.3	206.	ND	NC	327.	NC	NC
33.45	1433.	35.4	10.9	2675.	1.23	13.7	178.	ND	NC	330.	NC	NC
33.60	1481.	35.4	10.6	2616.	1.18	10.9	138.	ND	NC	341.	NC	NC
33.75	1568.	35.3	10.7	2636.	1.28	16.7	214.	ND	NC	361.	NC	NC
33.90	1635.	35.6	11.1	2721.	1.24	14.4	191.	ND	NC	376.	NC	NC
34.05	1643.	36.3	10.9	2686.	1.18	11.0	144.	ND	NC	378.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	159[illegible]	36.8	10.8	2654.	1.20	11.8	152.	ND	NC	366.	NC	NC
34.35	1484.	36.4	11.2	2749.	1.23	13.8	185.	ND	NC	341.	NC	NC
34.50	1446.	36.0	11.2	2766.	1.19	11.7	157.	ND	NC	333.	NC	NC
34.65	1443.	36.4	10.7	2637.	1.14	8.3	107.	ND	NC	332.	NC	NC
34.80	1442.	36.0	10.4	2560.	1.12	7.6	94.	ND	NC	332.	NC	NC
34.95	1439.	35.0	10.8	2668.	1.22	13.5	175.	ND	NC	331.	NC	NC
35.10	1431.	33.7	10.9	2675.	1.16	9.8	128.	ND	NC	329.	NC	NC
35.25	1381.	33.9	10.3	2531.	1.13	8.1	99.	ND	NC	318.	NC	NC
35.40	1400.	35.5	10.3	2538.	1.28	16.7	206.	ND	NC	322.	NC	NC
35.55	1420.	35.3	11.2	2751.	1.26	15.8	211.	ND	NC	327.	NC	NC
35.70	1395.	26.8	11.3	2770.	1.18	11.1	150.	ND	NC	321.	NC	NC
35.85	1469.	30.2	8.9	2175.	1.12	7.1	75.	ND	NC	338.	NC	NC
36.00	1613.	34.5	7.1	1737.	1.03	1.7	14.	ND	NC	371.	NC	NC
36.15	1710.	34.5	9.2	2270.	1.01	0.5	6.	ND	NC	393.	NC	NC
36.30	1576.	31.9	8.3	2047.	1.01	0.6	6.	ND	NC	362.	NC	NC
36.45	1483.	37.6	8.8	2167.	1.03	1.7	18.	ND	NC	341.	NC	NC
36.60	1473.	40.6	8.8	2170.	1.02	0.9	10.	ND	NC	339.	NC	NC
36.75	1471.	38.5	8.8	2155.	1.01	0.5	5.	ND	NC	338.	NC	NC
36.90	1454.	38.2	9.6	2354.	1.01	0.5	5.	ND	NC	334.	NC	NC
37.05	1454.	36.0	10.3	2531.	1.05	3.0	36.	ND	NC	335.	NC	NC
37.20	1428.	34.5	11.0	2699.	1.18	10.9	143.	ND	NC	328.	NC	NC
37.35	1409.	30.7	9.9	2423.	1.09	5.4	64.	ND	NC	324.	NC	NC
37.50	1364.	31.2	9.2	2257.	1.10	6.3	69.	ND	NC	314.	NC	NC
37.65	1416.	32.7	10.5	2586.	1.18	10.7	134.	ND	NC	326.	NC	NC
37.80	1446.	33.7	11.5	2834.	1.09	5.7	79.	ND	NC	333.	NC	NC
37.95	1494.	34.3	11.0	2709.	1.07	4.1	54.	ND	NC	344.	NC	NC
38.10	1593.	34.8	11.1	2737.	1.28	16.8	223.	ND	NC	366.	NC	NC
38.25	1647.	34.8	11.3	2789.	1.28	17.1	231.	ND	NC	379.	NC	NC
38.40	1609.	35.1	11.3	2791.	1.18	10.6	144.	ND	NC	370.	NC	NC
38.55	1493.	37.0	10.6	2612.	1.15	9.3	119.	ND	NC	343.	NC	NC
38.70	1463.	37.4	11.2	2756.	1.20	12.1	163.	ND	NC	337.	NC	NC
38.85	1452.	36.7	11.2	2757.	1.27	16.2	217.	ND	NC	334.	NC	NC
39.00	1433.	35.9	10.9	2674.	1.16	9.6	124.	ND	NC	330.	NC	NC
39.15	1424.	36.2	10.2	2505.	1.11	6.8	83.	ND	NC	327.	NC	NC
39.30	1416.	36.3	10.7	2639.	1.32	19.2	246.	ND	NC	326.	NC	NC
39.45	1396.	35.7	10.7	2627.	1.18	10.9	139.	ND	NC	321.	NC	NC
39.60	1364.	34.8	10.4	2550.	1.12	7.4	92.	ND	NC	314.	NC	NC
39.75	1438.	35.4	10.5	2583.	1.27	16.1	202.	ND	NC	331.	NC	NC
39.90	1475.	35.2	11.1	2728.	1.24	14.4	190.	ND	NC	339.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1479.	35.2	10.7	2632.	1.15	9.1	117.	ND	NC	340.	NC	NC
40.20	1568.	35.2	10.5	2570.	1.15	8.9	112.	ND	NC	361.	NC	NC
40.35	1655.	35.6	11.0	2715.	1.20	12.1	160.	ND	NC	381.	NC	NC
40.50	1565.	36.3	11.1	2722.	1.14	8.6	114.	ND	NC	360.	NC	NC
40.65	1466.	36.4	10.4	2553.	1.10	6.0	75.	ND	NC	338.	NC	NC
40.80	1452.	37.5	10.8	2657.	1.09	5.6	72.	ND	NC	334.	NC	NC
40.95	1450.	37.3	10.7	2635.	1.14	8.7	112.	ND	NC	333.	NC	NC
41.10	1445.	35.9	10.5	2571.	1.10	6.0	75.	ND	NC	332.	NC	NC
41.25	1418.	35.5	10.7	2629.	1.08	4.6	58.	ND	NC	326.	NC	NC
41.40	1415.	35.7	10.4	2565.	1.12	7.3	91.	ND	NC	325.	NC	NC
41.55	1413.	35.4	10.4	2558.	1.13	8.0	99.	ND	NC	325.	NC	NC
41.70	1399.	34.9	11.1	2728.	1.10	6.1	80.	ND	NC	322.	NC	NC
41.85	1417.	30.2	10.8	2662.	1.09	5.7	73.	ND	NC	326.	NC	NC
42.00	1151.	19.2	7.6	1879.	1.14	8.4	76.	ND	NC	265.	NC	NC
42.15	1194.	14.6	6.8	1681.	1.10	6.1	50.	ND	NC	275.	NC	NC
42.30	1508.	32.7	7.4	1826.	1.09	5.4	48.	ND	NC	347.	NC	NC
42.45	1594.	33.1	9.7	2376.	1.11	6.5	75.	ND	NC	367.	NC	NC
42.60	1576.	33.9	10.9	2682.	1.11	6.5	85.	ND	NC	362.	NC	NC
42.75	1486.	35.3	11.1	2725.	1.08	5.1	67.	ND	NC	342.	NC	NC
42.90	1449.	36.4	10.9	2672.	1.05	3.3	43.	ND	NC	333.	NC	NC
43.05	1452.	36.7	10.6	2608.	1.06	3.8	48.	ND	NC	334.	NC	NC
43.20	1433.	36.6	10.6	2605.	1.07	4.0	51.	ND	NC	330.	NC	NC
43.35	1418.	36.4	10.7	2621.	1.07	4.0	51.	ND	NC	326.	NC	NC
43.50	1429.	35.4	10.6	2614.	1.09	5.6	71.	ND	NC	329.	NC	NC
43.65	1409.	31.9	10.3	2531.	1.09	5.6	69.	ND	NC	324.	NC	NC
43.80	1369.	32.7	10.1	2487.	1.18	11.0	133.	ND	NC	315.	NC	NC
43.95	1392.	33.2	10.8	2658.	1.13	8.0	103.	ND	NC	329.	NC	NC
44.10	1431.	32.1	10.9	2691.	1.08	4.7	61.	ND	NC	329.	NC	NC
44.25	1476.	32.9	10.8	2652.	1.06	3.5	45.	ND	NC	339.	NC	NC
44.40	1502.	32.8	11.1	2732.	1.10	6.1	80.	ND	NC	345.	NC	NC
44.55	1582.	32.2	11.3	2783.	1.06	3.6	48.	ND	NC	364.	NC	NC
44.70	1545.	32.9	11.1	2742.	1.05	3.2	42.	ND	NC	355.	NC	NC
44.85	1442.	34.6	11.0	2699.	1.05	2.7	36.	ND	NC	332.	NC	NC
45.00	1436.	35.4	11.1	2729.	1.05	2.9	38.	ND	NC	330.	NC	NC
45.15	1434.	35.0	11.2	2748.	1.04	2.6	35.	ND	NC	330.	NC	NC
45.30	1433.	35.0	11.1	2738.	1.05	3.2	43.	ND	NC	330.	NC	NC
45.45	1438.	34.4	11.2	2759.	1.05	3.1	42.	ND	NC	331.	NC	NC
45.60	1443.	34.1	11.4	2801.	1.04	2.6	35.	ND	NC	332.	NC	NC
45.75	1425.	32.6	11.6	2859.	1.04	2.5	35.	ND	NC	329.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1371.	32.1	11.7	2878.	1.05	2.8	40.	ND	NC	315.	NC	NC
46.05	1397.	32.1	11.7	2866.	1.05	3.0	42.	ND	NC	321.	NC	NC
46.20	1419.	31.9	11.6	2864.	1.05	2.8	38.	ND	NC	326.	NC	NC
46.35	1446.	31.3	11.6	2861.	1.05	3.1	43.	ND	NC	333.	NC	NC
46.50	1476.	31.5	11.5	2840.	1.05	2.8	39.	ND	NC	340.	NC	NC
46.65	1546.	31.4	11.4	2801.	1.04	2.5	34.	ND	NC	356.	NC	NC
46.80	1547.	32.1	11.4	2796.	1.04	2.4	33.	ND	NC	356.	NC	NC
46.95	1507.	33.4	11.4	2797.	1.04	2.4	33.	ND	NC	347.	NC	NC
47.10	1435.	34.0	11.3	2780.	1.04	2.5	34.	ND	NC	330.	NC	NC
47.25	1442.	33.9	11.5	2816.	1.05	2.7	37.	ND	NC	332.	NC	NC
47.40	1433.	33.9	11.6	2848.	1.04	2.3	32.	ND	NC	330.	NC	NC
47.55	1413.	34.4	11.6	2858.	1.04	2.5	34.	ND	NC	325.	NC	NC
47.70	1402.	33.5	11.6	2864.	1.04	2.5	35.	ND	NC	323.	NC	NC
47.85	1385.	32.4	11.8	2891.	1.04	2.4	34.	ND	NC	319.	NC	NC
48.00	1393.	32.6	11.8	2909.	1.04	2.6	36.	ND	NC	320.	NC	NC
48.15	1401.	31.4	11.7	2874.	1.04	2.3	32.	ND	NC	322.	NC	NC
48.30	1412.	31.0	11.7	2880.	1.04	2.4	33.	ND	NC	325.	NC	NC
48.45	1461.	30.9	11.9	2933.	1.04	2.5	36.	ND	NC	336.	NC	NC
48.60	1502.	30.3	11.9	2935.	1.04	2.7	39.	ND	NC	345.	NC	NC
48.75	1517.	31.2	11.7	2867.	1.04	2.4	33.	ND	NC	349.	NC	NC
48.90	1550.	31.0	11.6	2852.	1.04	2.5	34.	ND	NC	357.	NC	NC
49.05	1490.	31.6	11.7	2873.	1.03	2.1	29.	ND	NC	343.	NC	NC
49.20	1422.	33.1	11.6	2862.	1.03	1.8	25.	ND	NC	327.	NC	NC
49.35	1434.	33.5	11.4	2809.	1.04	2.4	32.	ND	NC	330.	NC	NC
49.50	1423.	34.0	11.4	2799.	1.04	2.2	29.	ND	NC	327.	NC	NC
49.65	1410.	33.2	11.6	2842.	1.03	2.1	28.	ND	NC	324.	NC	NC
49.80	1411.	32.5	11.5	2818.	1.04	2.2	30.	ND	NC	324.	NC	NC
49.95	1401.	31.8	11.7	2869.	1.03	2.0	29.	ND	NC	322.	NC	NC
50.10	1377.	31.6	11.9	2920.	1.03	1.9	28.	ND	NC	317.	NC	NC
50.25	1366.	31.7	11.7	2874.	1.04	2.3	33.	ND	NC	314.	NC	NC
50.40	1370.	30.8	11.5	2836.	1.04	2.5	34.	ND	NC	315.	NC	NC
50.55	1392.	30.2	11.6	2850.	1.04	2.6	36.	ND	NC	320.	NC	NC
50.70	1479.	30.9	11.6	2863.	1.04	2.4	34.	ND	NC	340.	NC	NC
50.85	1523.	30.7	11.5	2840.	1.04	2.3	31.	ND	NC	350.	NC	NC
51.00	1542.	30.4	11.5	2823.	1.04	2.3	31.	ND	NC	355.	NC	NC
51.15	1555.	31.3	11.6	2861.	1.04	2.4	33.	ND	NC	358.	NC	NC
51.30	1434.	33.9	11.5	2821.	1.03	2.0	27.	ND	NC	330.	NC	NC
51.45	1414.	33.4	11.4	2802.	1.04	2.4	33.	ND	NC	325.	NC	NC
51.60	1408.	32.6	11.5	2825.	1.03	2.1	28.	ND	NC	324.	NC	NC

RUN NUMBER- 38
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1388.	31.9	11.7	2673.	1.04	2.4	33.	ND	NC	319.	NC	NC
51.90	1185.	28.8	11.7	2674.	1.04	2.4	34.	ND	NC	272.	NC	NC
52.05	977.	23.7	11.2	2753.	1.04	2.2	30.	ND	NC	225.	NC	NC
52.20	945.	21.2	10.5	2588.	1.04	2.2	28.	ND	NC	217.	NC	NC
52.35	915.	20.2	10.0	2452.	1.04	2.2	26.	ND	NC	211.	NC	NC
52.50	340.	16.9	9.5	2328.	1.03	1.8	20.	ND	NC	78.	NC	NC
52.65	25.	10.6	6.1	1511.	1.01	0.7	5.	ND	NC	6.	NC	NC
52.80	-0.	3.5	4.3	1068.	1.01	0.3	2.	ND	NC	-0.	NC	NC
52.95	2.	2.4	3.2	781.	1.00	0.	0.	ND	NC	0.	NC	NC
53.10	0.	1.9	2.0	485.	1.01	0.3	1.	ND	NC	2.	NC	NC
53.25	14.	1.5	0.9	229.	1.01	0.4	0.	ND	NC	3.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 28 78
RUN NUMBER- 39
SEGMENT NUMBER- 1
WATER DEPTH- 17 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 740 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	120.	9.4	0.3	73.	1.00	0.	0.	ND	NC	28.	NC	NC
0.15	145.	11.1	0.3	78.	1.00	0.	0.	ND	NC	33.	NC	NC
0.30	191.	12.6	0.4	92.	1.00	0.	0.	ND	NC	44.	NC	NC
0.45	245.	13.7	0.6	159.	1.00	0.	0.	ND	NC	56.	NC	NC
0.60	318.	14.6	2.1	514.	1.00	0.	0.	ND	NC	73.	NC	NC
0.75	420.	15.2	3.3	808.	1.00	0.	0.	ND	NC	97.	NC	NC
0.90	483.	15.7	4.6	1122.	1.00	0.	0.	ND	NC	111.	NC	NC
1.05	528.	16.2	5.9	1456.	1.00	0.	0.	ND	NC	121.	NC	NC
1.20	609.	16.1	7.6	1879.	1.00	0.	0.	ND	NC	140.	NC	NC
1.35	660.	17.0	8.8	2175.	1.00	0.	0.	ND	NC	152.	NC	NC
1.50	741.	19.7	8.6	2127.	1.00	0.	0.	ND	NC	170.	NC	NC
1.65	782.	20.5	8.8	2167.	1.01	0.5	5.	ND	NC	180.	NC	NC
1.80	839.	21.0	9.3	2289.	1.00	0.	0.	ND	NC	193.	NC	NC
1.95	921.	21.8	10.8	2664.	1.01	0.4	5.	ND	NC	212.	NC	NC
2.10	983.	23.5	11.2	2757.	1.01	0.3	4.	ND	NC	226.	NC	NC
2.25	1006.	23.2	11.4	2808.	1.01	0.3	4.	ND	NC	231.	NC	NC
2.40	1019.	23.2	11.7	2882.	1.01	0.3	5.	ND	NC	234.	NC	NC
2.55	1068.	22.6	12.0	2945.	1.01	0.3	5.	ND	NC	246.	NC	NC
2.70	1257.	24.2	11.7	2881.	1.01	0.4	5.	ND	NC	289.	NC	NC
2.85	1313.	25.9	11.7	2887.	1.01	0.4	5.	ND	NC	302.	NC	NC
3.00	1443.	27.1	12.1	2973.	1.01	0.5	7.	ND	NC	332.	NC	NC
3.15	1469.	28.8	12.1	2967.	1.01	0.8	11.	ND	NC	338.	NC	NC
3.30	1455.	31.7	12.6	3091.	1.08	5.1	77.	ND	NC	335.	NC	NC
3.45	1460.	33.0	12.1	2965.	1.00	0.	0.	ND	NC	336.	NC	NC
3.60	1439.	31.5	12.4	3039.	1.00	0.	0.	ND	NC	331.	NC	NC
3.75	1435.	30.0	12.8	3136.	1.02	1.0	15.	ND	NC	333.	NC	NC
3.90	1418.	29.6	13.0	3209.	1.06	3.4	53.	ND	NC	326.	NC	NC
4.05	1373.	29.2	13.2	3234.	1.07	4.0	63.	ND	NC	316.	NC	NC
4.20	1390.	28.7	13.1	3214.	1.03	2.0	31.	ND	NC	320.	NC	NC
4.35	1431.	29.2	12.8	3146.	1.05	3.3	50.	ND	NC	329.	NC	NC
4.50	1464.	29.2	13.1	3224.	1.09	5.4	84.	ND	NC	337.	NC	NC
4.65	1500.	28.3	13.1	3220.	1.03	2.1	33.	ND	NC	345.	NC	NC
4.80	1506.	30.4	12.8	3148.	1.04	2.2	34.	ND	NC	346.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1452.	31.6	12.7	3114.	1.06	3.6	54.	ND	NC	334.	NC	NC
5.10	1438.	31.4	12.7	3134.	1.06	3.4	51.	ND	NC	331.	NC	NC
5.25	1423.	31.0	13.2	3256.	1.04	2.4	38.	ND	NC	327.	NC	NC
5.40	1421.	30.7	13.0	3201.	1.03	1.8	28.	ND	NC	327.	NC	NC
5.55	1411.	30.4	13.0	3197.	1.04	2.5	39.	ND	NC	325.	NC	NC
5.70	1396.	29.2	12.9	3181.	1.04	2.6	41.	ND	NC	321.	NC	NC
5.85	1375.	29.2	12.9	3171.	1.02	1.5	23.	ND	NC	316.	NC	NC
6.00	1353.	29.3	13.1	3214.	1.02	1.5	23.	ND	NC	311.	NC	NC
6.15	1424.	29.3	13.1	3222.	1.04	2.5	38.	ND	NC	328.	NC	NC
6.30	1448.	29.3	13.1	3225.	1.03	1.7	26.	ND	NC	333.	NC	NC
6.45	1464.	29.6	13.1	3213.	1.02	1.3	21.	ND	NC	337.	NC	NC
6.60	1513.	30.1	13.0	3203.	1.03	1.5	24.	ND	NC	348.	NC	NC
6.75	1462.	30.7	13.1	3233.	1.02	1.5	24.	ND	NC	336.	NC	NC
6.90	1419.	31.3	13.1	3209.	1.02	1.2	19.	ND	NC	326.	NC	NC
7.05	1411.	30.9	13.0	3196.	1.02	1.0	15.	ND	NC	325.	NC	NC
7.20	1406.	30.3	13.2	3234.	1.02	1.1	18.	ND	NC	323.	NC	NC
7.35	1397.	29.8	13.1	3220.	1.03	1.6	25.	ND	NC	321.	NC	NC
7.50	1384.	30.0	12.9	3172.	1.02	1.4	22.	ND	NC	318.	NC	NC
7.65	1361.	30.2	12.9	3162.	1.02	1.4	22.	ND	NC	313.	NC	NC
7.80	1370.	30.4	12.9	3172.	1.06	3.4	52.	ND	NC	315.	NC	NC
7.95	1393.	30.2	12.9	3180.	1.06	3.4	52.	ND	NC	320.	NC	NC
8.10	1446.	29.9	13.0	3196.	1.06	3.4	53.	ND	NC	333.	NC	NC
8.25	1502.	30.8	12.9	3162.	1.08	5.1	78.	ND	NC	345.	NC	NC
8.40	1508.	30.8	12.5	3085.	1.12	7.0	105.	ND	NC	347.	NC	NC
8.55	1482.	31.0	12.9	3174.	1.09	5.6	86.	ND	NC	341.	NC	NC
8.70	1430.	31.1	12.8	3154.	1.08	5.0	77.	ND	NC	329.	NC	NC
8.85	1415.	31.2	12.6	3105.	1.12	7.5	113.	ND	NC	325.	NC	NC
9.00	1402.	31.4	12.6	3091.	1.12	7.0	105.	ND	NC	322.	NC	NC
9.15	1390.	30.8	12.8	3137.	1.09	5.3	81.	ND	NC	320.	NC	NC
9.30	1395.	30.6	12.9	3166.	1.07	4.1	64.	ND	NC	321.	NC	NC
9.45	1358.	30.3	12.7	3112.	1.16	9.5	143.	ND	NC	312.	NC	NC
9.60	1355.	29.7	12.4	3052.	1.12	7.2	106.	ND	NC	312.	NC	NC
9.75	1380.	29.4	12.6	3094.	1.10	6.0	91.	ND	NC	318.	NC	NC
9.90	1407.	30.5	12.5	3078.	1.15	9.0	135.	ND	NC	324.	NC	NC
10.05	1472.	31.0	12.2	3005.	1.20	11.9	173.	ND	NC	339.	NC	NC
10.20	1493.	31.2	12.5	3065.	1.14	8.6	129.	ND	NC	343.	NC	NC
10.35	1476.	31.9	12.3	3036.	1.12	7.5	111.	ND	NC	338.	NC	NC
10.50	1416.	32.0	12.2	3008.	1.22	13.1	191.	ND	NC	326.	NC	NC
10.65	1412.	31.6	12.2	3019.	1.20	12.1	177.	ND	NC	325.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1402.	30.7	12.5	3066.	1.12	7.2	108.	ND	NC	322.	NC	NC
10.95	1397.	30.8	12.5	3077.	1.10	6.1	91.	ND	NC	321.	NC	NC
11.10	1391.	31.0	12.4	3042.	1.11	6.8	101.	ND	NC	320.	NC	N
11.25	1376.	31.2	12.4	3060.	1.16	9.6	143.	ND	NC	317.	NC	NC
11.40	1359.	30.2	12.6	3089.	1.11	6.8	102.	ND	NC	312.	NC	NC
11.55	1348.	30.1	12.4	3048.	1.13	8.1	120.	ND	NC	313.	NC	NC
11.70	1436.	30.9	12.3	3016.	1.23	13.6	200.	ND	NC	333.	NC	NC
11.85	1466.	31.0	12.3	3036.	1.17	10.3	152.	ND	NC	337.	NC	NC
12.00	1499.	31.2	12.6	3090.	1.11	6.9	104.	ND	NC	345.	NC	NC
12.15	1465.	31.3	12.6	3089.	1.17	10.1	151.	ND	NC	337.	NC	NC
12.30	1417.	31.5	12.4	3041.	1.18	10.6	157.	ND	NC	326.	NC	NC
12.45	1411.	31.7	12.4	3055.	1.12	7.2	107.	ND	NC	325.	NC	NC
12.60	1403.	31.6	12.6	3104.	1.08	5.1	77.	ND	NC	323.	NC	NC
12.75	1396.	31.2	12.6	3089.	1.07	4.5	67.	ND	NC	320.	NC	NC
12.90	1379.	30.8	12.5	3067.	1.11	6.8	101.	ND	NC	317.	NC	NC
13.05	1351.	29.8	12.6	3108.	1.07	4.4	66.	ND	NC	311.	NC	NC
13.20	1330.	30.2	12.8	3148.	1.05	3.1	48.	ND	NC	306.	NC	NC
13.35	1368.	30.4	12.8	3157.	1.08	5.1	78.	ND	NC	315.	NC	NC
13.50	1423.	29.9	12.6	3105.	1.11	6.9	103.	ND	NC	327.	NC	NC
13.65	1447.	30.1	12.8	3150.	1.06	3.7	57.	ND	NC	333.	NC	NC
13.80	1510.	30.7	12.8	3143.	1.05	2.9	44.	ND	NC	347.	NC	NC
13.95	1474.	30.9	12.8	3151.	1.09	5.5	85.	ND	NC	339.	NC	NC
14.10	1422.	30.6	12.7	3120.	1.08	5.1	77.	ND	NC	327.	NC	NC
14.25	1371.	30.1	12.2	2968.	1.08	4.9	71.	ND	NC	315.	NC	NC
14.40	1384.	27.4	11.7	2872.	1.07	4.3	60.	ND	NC	318.	NC	NC
14.55	1412.	34.0	11.1	2734.	1.03	2.1	28.	ND	NC	325.	NC	NC
14.70	1408.	31.7	10.3	2529.	1.00	0.	0.	ND	NC	324.	NC	NC
14.85	1364.	31.3	12.2	2997.	1.02	1.0	15.	ND	NC	314.	NC	NC
15.00	1370.	31.2	12.6	3109.	1.06	3.8	57.	ND	NC	315.	NC	NC
15.15	1382.	30.3	13.2	3255.	1.05	3.2	51.	ND	NC	318.	NC	NC
15.30	1395.	29.0	13.7	3372.	1.03	1.9	31.	ND	NC	321.	NC	NC
15.45	1461.	30.3	12.9	3166.	1.07	4.4	67.	ND	NC	336.	NC	NC
15.60	1507.	30.9	12.5	3073.	1.13	8.0	119.	ND	NC	347.	NC	NC
15.75	1466.	30.6	12.7	3122.	1.12	7.2	109.	ND	NC	337.	NC	NC
15.90	1438.	30.6	12.9	3165.	1.08	5.1	78.	ND	NC	331.	NC	NC
16.05	1416.	31.4	12.9	3170.	1.09	5.5	84.	ND	NC	326.	NC	NC
16.20	1397.	30.4	12.5	3082.	1.11	6.5	97.	ND	NC	321.	NC	NC
16.35	1383.	30.2	12.5	3065.	1.08	4.9	72.	ND	NC	318.	NC	NC
16.50	1383.	30.6	12.7	3128.	1.05	3.1	47.	ND	NC	318.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1364.	30.3	13.0	3206.	1.07	4.5	70.	ND	NC	314.	NC	NC
16.80	1358.	29.6	12.9	3172.	1.10	5.8	89.	ND	NC	312.	NC	NC
16.95	1376.	29.7	13.1	3231.	1.10	5.8	91.	ND	NC	316.	NC	NC
17.10	1401.	30.5	12.9	3176.	1.06	3.8	59.	ND	NC	322.	NC	NC
17.25	1439.	30.6	12.9	3182.	1.09	5.5	85.	ND	NC	331.	NC	NC
17.40	1486.	30.6	13.0	3202.	1.10	6.4	99.	ND	NC	342.	NC	NC
17.55	1461.	30.3	13.0	3189.	1.07	4.0	62.	ND	NC	336.	NC	NC
17.70	1409.	30.9	13.1	3211.	1.08	5.1	79.	ND	NC	324.	NC	NC
17.85	1403.	31.1	13.2	3243.	1.10	5.8	92.	ND	NC	323.	NC	NC
18.00	1405.	30.8	13.0	3202.	1.08	5.0	78.	ND	NC	323.	NC	NC
18.15	1392.	30.0	13.0	3206.	1.05	3.2	49.	ND	NC	320.	NC	NC
18.30	1373.	30.0	13.1	3218.	1.06	3.6	56.	ND	NC	316.	NC	NC
18.45	1357.	29.9	13.0	3185.	1.07	4.5	69.	ND	NC	312.	NC	NC
18.60	1344.	29.7	13.0	3203.	1.07	4.4	69.	ND	NC	309.	NC	NC
18.75	1334.	29.7	13.2	3240.	1.04	2.5	39.	ND	NC	307.	NC	NC
18.90	1394.	29.7	13.1	3214.	1.09	5.6	87.	ND	NC	321.	NC	NC
19.05	1430.	29.9	12.9	3162.	1.10	6.1	94.	ND	NC	329.	NC	NC
19.20	1466.	30.4	13.0	3192.	1.09	5.3	82.	ND	NC	337.	NC	NC
19.35	1483.	30.9	13.0	3209.	1.07	4.4	69.	ND	NC	341.	NC	NC
19.50	1409.	31.2	12.7	3126.	1.13	7.8	119.	ND	NC	324.	NC	NC
19.65	1392.	31.3	12.8	3138.	1.10	5.9	90.	ND	NC	320.	NC	NC
19.80	1388.	30.9	12.8	3146.	1.07	4.3	66.	ND	NC	319.	NC	NC
19.95	1381.	30.4	12.9	3168.	1.08	5.1	79.	ND	NC	318.	NC	NC
20.10	1373.	30.2	12.8	3158.	1.11	6.8	105.	ND	NC	316.	NC	NC
20.25	1373.	31.2	12.7	3120.	1.07	4.5	68.	ND	NC	316.	NC	NC
20.40	1342.	30.6	12.8	3150.	1.06	3.7	56.	ND	NC	309.	NC	NC
20.55	1356.	30.4	12.8	3159.	1.32	19.6	301.	ND	NC	312.	NC	NC
20.70	1378.	30.4	12.8	3146.	1.62	37.3	569.	ND	NC	317.	NC	NC
20.85	1428.	30.4	13.2	3235.	1.09	5.4	85.	ND	NC	328.	NC	NC
21.00	1481.	30.7	12.8	3148.	1.10	5.9	89.	ND	NC	341.	NC	NC
21.15	1496.	31.3	12.6	3107.	1.85	51.6	779.	ND	NC	344.	NC	NC
21.30	1437.	31.0	12.8	3156.	1.25	15.2	233.	ND	NC	330.	NC	NC
21.45	1405.	31.0	12.9	3176.	1.06	3.4	52.	ND	NC	323.	NC	NC
21.60	1395.	30.8	12.8	3144.	1.12	7.3	111.	ND	NC	321.	NC	NC
21.75	1390.	30.9	12.6	3111.	1.11	6.9	104.	ND	NC	320.	NC	NC
21.90	1386.	30.8	12.6	3099.	1.37	22.5	338.	ND	NC	319.	NC	NC
22.05	1382.	30.3	12.7	3127.	1.87	52.7	799.	ND	NC	318.	NC	NC
22.20	1356.	29.7	12.9	3180.	1.07	4.2	64.	ND	NC	312.	NC	NC
22.35	1338.	30.3	12.9	3180.	1.09	5.7	88.	ND	NC	308.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1371.	30.8	13.1	3228.	1.07	4.2	65.	ND	NC	315.	NC	NC
22.65	1417.	30.6	13.0	3208.	1.04	2.7	42.	ND	NC	326.	NC	NC
22.80	1476.	30.7	12.8	3145.	1.11	6.9	106.	ND	NC	339.	NC	NC
22.95	1481.	30.6	12.7	3125.	1.10	6.2	94.	ND	NC	341.	NC	NC
23.10	1461.	30.7	12.8	3138.	1.06	3.6	54.	ND	NC	336.	NC	NC
23.25	1421.	30.9	13.0	3195.	1.07	4.4	68.	ND	NC	327.	NC	NC
23.40	1389.	30.5	13.1	3230.	1.11	6.9	109.	ND	NC	320.	NC	NC
23.55	1388.	30.5	13.1	3212.	1.07	4.3	66.	ND	NC	319.	NC	NC
23.70	1378.	30.7	13.0	3192.	1.04	2.2	34.	ND	NC	317.	NC	NC
23.85	1362.	31.1	12.9	3182.	1.03	1.9	30.	ND	NC	313.	NC	NC
24.00	1350.	31.0	13.0	3196.	1.08	4.6	71.	ND	NC	311.	NC	NC
24.15	1343.	30.3	13.1	3228.	1.06	3.6	56.	ND	NC	309.	NC	NC
24.30	1349.	30.5	13.2	3243.	1.04	2.1	33.	ND	NC	310.	NC	NC
24.45	1427.	30.9	12.7	3122.	1.08	4.8	73.	ND	NC	328.	NC	NC
24.60	1453.	30.4	12.9	3165.	1.10	6.1	93.	ND	NC	334.	NC	NC
24.75	1473.	30.5	13.1	3224.	1.05	2.8	44.	ND	NC	339.	NC	NC
24.90	1479.	32.6	12.9	3164.	1.07	4.0	61.	ND	NC	340.	NC	NC
25.05	1424.	32.0	12.6	3107.	1.11	6.9	104.	ND	NC	328.	NC	NC
25.20	1402.	31.2	12.9	3172.	1.09	5.2	80.	ND	NC	322.	NC	NC
25.35	1393.	30.5	13.1	3221.	1.05	3.2	49.	ND	NC	320.	NC	NC
25.50	1386.	30.0	13.1	3223.	1.09	5.7	89.	ND	NC	319.	NC	NC
25.65	1371.	30.5	12.9	3161.	1.10	6.1	93.	ND	NC	315.	NC	NC
25.80	1369.	30.9	12.8	3153.	1.07	4.3	66.	ND	NC	315.	NC	NC
25.95	1347.	30.9	12.9	3174.	1.06	3.7	56.	ND	NC	310.	NC	NC
26.10	1377.	30.9	12.9	3168.	1.09	5.2	80.	ND	NC	317.	NC	NC
26.25	1413.	30.9	12.7	3132.	1.12	7.4	112.	ND	NC	325.	NC	NC
26.40	1459.	31.3	12.8	3146.	1.09	5.4	83.	ND	NC	336.	NC	NC
26.55	1502.	31.5	12.8	3149.	1.12	7.1	109.	ND	NC	345.	NC	NC
26.70	1499.	31.5	12.9	3164.	1.20	12.3	189.	ND	NC	345.	NC	NC
26.85	1450.	31.4	12.9	3175.	1.13	7.8	120.	ND	NC	333.	NC	NC
27.00	1413.	31.2	12.9	3175.	1.10	5.9	90.	ND	NC	325.	NC	NC
27.15	1399.	31.2	12.6	3090.	1.16	9.7	145.	ND	NC	322.	NC	NC
27.30	1394.	31.2	12.4	3059.	1.15	9.0	134.	ND	NC	321.	NC	NC
27.45	1393.	31.0	12.5	3073.	1.11	6.9	104.	ND	NC	320.	NC	NC
27.60	1364.	30.7	12.9	3178.	1.08	4.8	74.	ND	NC	314.	NC	NC
27.75	1355.	30.9	13.0	3186.	1.09	5.3	81.	ND	NC	312.	NC	NC
27.90	1369.	30.8	12.7	3122.	1.15	9.2	140.	ND	NC	315.	NC	NC
28.05	1366.	30.2	12.8	3156.	1.11	6.7	102.	ND	NC	319.	NC	NC
28.20	1429.	30.4	13.0	3189.	1.09	5.7	88.	ND	NC	329.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1501.	30.7	12.7	3126.	1.16	9.7	147.	ND	NC	345.	NC	NC
28.50	1500.	31.3	12.7	3117.	1.14	8.3	126.	ND	NC	345.	NC	NC
28.65	1456.	31.9	12.8	3154.	1.12	7.0	108.	ND	NC	335.	NC	NC
28.80	1400.	31.3	12.8	3153.	1.14	8.2	126.	ND	NC	322.	NC	NC
28.95	1400.	30.7	12.5	3072.	1.19	11.3	168.	ND	NC	322.	NC	NC
29.10	1391.	30.5	12.6	3111.	1.12	7.6	114.	ND	NC	320.	NC	NC
29.25	1388.	30.4	12.8	3137.	1.09	5.3	81.	ND	NC	319.	NC	NC
29.40	1376.	30.5	12.7	3132.	1.08	4.9	74.	ND	NC	316.	NC	NC
29.55	1332.	30.0	12.7	3130.	1.19	11.6	176.	ND	NC	306.	NC	NC
29.70	1349.	30.5	12.8	3141.	1.13	7.7	117.	ND	NC	310.	NC	NC
29.85	1376.	30.7	12.8	3136.	1.12	7.2	110.	ND	NC	317.	NC	NC
30.00	1430.	30.8	12.5	3073.	1.19	11.5	172.	ND	NC	329.	NC	NC
30.15	1460.	30.2	12.2	3010.	1.21	12.4	182.	ND	NC	336.	NC	NC
30.30	1499.	31.1	12.6	3106.	1.17	10.3	155.	ND	NC	345.	NC	NC
30.45	1448.	33.1	12.4	3038.	1.20	12.0	177.	ND	NC	333.	NC	NC
30.60	1411.	33.7	12.2	3012.	1.24	14.8	216.	ND	NC	325.	NC	NC
30.75	1411.	31.7	12.3	3023.	1.24	14.8	217.	ND	NC	325.	NC	NC
30.90	1409.	30.8	12.4	3041.	1.18	11.1	164.	ND	NC	324.	NC	NC
31.05	1385.	31.0	12.5	3064.	1.13	7.7	115.	ND	NC	318.	NC	NC
31.20	1363.	30.8	12.4	3038.	1.21	12.5	184.	ND	NC	313.	NC	NC
31.35	1351.	30.8	12.2	3008.	1.20	11.9	173.	ND	NC	311.	NC	NC
31.50	1300.	24.2	12.4	3040.	1.16	9.8	145.	ND	NC	299.	NC	NC
31.65	1316.	26.8	11.5	2835.	1.13	6.3	87.	ND	NC	303.	NC	NC
31.80	1427.	31.0	8.3	2035.	1.01	0.7	7.	ND	NC	328.	NC	NC
31.95	1468.	30.4	11.0	2708.	1.01	0.8	11.	ND	NC	338.	NC	NC
32.10	1505.	29.9	11.1	2732.	1.09	5.5	74.	ND	NC	346.	NC	NC
32.25	1527.	31.4	11.1	2741.	1.33	20.1	267.	ND	NC	351.	NC	NC
32.40	1432.	31.7	12.6	3087.	1.27	16.4	246.	ND	NC	329.	NC	NC
32.55	1411.	31.2	12.8	3158.	1.18	10.9	168.	ND	NC	325.	NC	NC
32.70	1411.	31.1	12.9	3163.	1.17	10.6	162.	ND	NC	325.	NC	NC
32.85	1397.	30.2	12.5	3068.	1.22	13.2	197.	ND	NC	321.	NC	NC
33.00	1356.	30.0	12.5	3078.	1.20	12.2	182.	ND	NC	312.	NC	NC
33.15	1295.	27.0	12.1	2966.	1.16	9.9	143.	ND	NC	298.	NC	NC
33.30	1293.	27.2	12.1	2973.	1.15	8.8	127.	ND	NC	297.	NC	NC
33.45	1303.	30.7	9.2	2254.	1.01	0.5	5.	ND	NC	300.	NC	NC
33.60	1391.	29.8	9.9	2426.	1.00	0.	0.	ND	NC	320.	NC	NC
33.75	1468.	30.5	11.9	2922.	1.00	0.	0.	ND	NC	338.	NC	NC
33.90	1505.	31.2	11.9	2927.	1.38	23.2	330.	ND	NC	346.	NC	NC
34.05	1489.	31.2	12.3	3017.	1.32	19.5	286.	ND	NC	343.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1431.	30.8	12.7	3122.	1.24	14.5	220.	ND	NC	329.	NC	NC
34.35	1425.	31.1	13.1	3210.	1.30	18.1	282.	ND	NC	328.	NC	NC
34.50	1406.	31.5	12.3	3016.	1.36	21.9	321.	ND	NC	323.	NC	NC
34.65	1398.	31.1	12.0	2958.	1.28	17.3	248.	ND	NC	321.	NC	NC
34.80	1384.	31.0	12.2	3009.	1.17	10.0	146.	ND	NC	318.	NC	NC
34.95	1356.	31.1	12.7	3116.	1.13	8.1	123.	ND	NC	312.	NC	NC
35.10	1330.	30.8	12.2	2995.	1.28	16.8	244.	ND	NC	306.	NC	NC
35.25	1365.	31.1	12.1	2965.	1.22	13.6	196.	ND	NC	314.	NC	NC
35.40	1390.	31.1	12.3	3025.	1.18	10.7	157.	ND	NC	320.	NC	NC
35.55	1446.	30.7	12.5	3078.	1.23	13.7	205.	ND	NC	333.	NC	NC
35.70	1527.	30.9	12.2	3000.	1.27	16.4	239.	ND	NC	351.	NC	NC
35.85	1482.	31.6	12.0	2956.	1.23	13.8	198.	ND	NC	341.	NC	NC
36.00	1403.	32.2	12.1	2967.	1.23	14.1	212.	ND	NC	323.	NC	NC
36.15	1406.	32.8	12.2	2959.	1.32	19.3	281.	ND	NC	323.	NC	NC
36.30	1404.	31.6	11.9	2927.	1.25	15.1	215.	ND	NC	323.	NC	NC
36.45	1395.	30.7	12.1	2971.	1.13	7.6	110.	ND	NC	321.	NC	NC
36.60	1373.	31.6	12.3	3013.	1.05	3.3	48.	ND	NC	316.	NC	NC
36.75	1359.	31.0	12.2	2998.	1.20	12.0	175.	ND	NC	313.	NC	NC
36.90	1342.	30.7	12.2	2989.	1.21	12.8	185.	ND	NC	309.	NC	NC
37.05	1347.	31.0	12.4	3050.	1.20	12.3	182.	ND	NC	310.	NC	NC
37.20	1405.	30.7	12.5	3076.	1.27	16.5	246.	ND	NC	323.	NC	NC
37.35	1451.	30.9	12.6	3106.	1.27	16.6	250.	ND	NC	334.	NC	NC
37.50	1486.	31.1	12.6	3099.	1.23	14.0	211.	ND	NC	342.	NC	NC
37.65	1500.	31.7	12.4	3051.	1.25	15.2	224.	ND	NC	345.	NC	NC
37.80	1418.	32.3	12.1	2969.	1.32	19.2	277.	ND	NC	326.	NC	NC
37.95	1405.	32.0	11.9	2933.	1.27	16.5	235.	ND	NC	323.	NC	NC
38.10	1399.	32.0	11.8	2905.	1.23	14.2	200.	ND	NC	322.	NC	NC
38.25	1389.	31.5	11.9	2916.	1.20	12.1	171.	ND	NC	319.	NC	NC
38.40	1362.	31.0	12.1	2964.	1.22	13.5	195.	ND	NC	313.	NC	NC
38.55	1347.	30.8	11.9	2929.	1.19	11.6	165.	ND	NC	310.	NC	NC
38.70	1334.	30.8	12.1	2974.	1.20	12.2	176.	ND	NC	307.	NC	NC
38.85	1375.	30.9	12.1	2982.	1.28	17.2	249.	ND	NC	316.	NC	NC
39.00	1415.	30.7	11.9	2916.	1.35	21.1	298.	ND	NC	325.	NC	NC
39.15	1450.	28.7	11.5	2827.	1.26	15.6	215.	ND	NC	334.	NC	NC
39.30	1489.	29.5	11.2	2758.	1.38	22.9	306.	ND	NC	343.	NC	NC
39.45	1508.	32.4	11.3	2783.	1.30	18.1	244.	ND	NC	347.	NC	NC
39.60	1479.	33.1	11.6	2846.	1.04	2.7	38.	ND	NC	340.	NC	NC
39.75	1457.	33.3	10.3	2529.	1.10	6.0	73.	ND	NC	335.	NC	NC
39.90	1403.	33.0	11.3	2768.	1.11	6.9	93.	ND	NC	323.	NC	NC

RUN NUMBER- 39
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1393.	34.4	11.9	2934.	1.09	5.7	81.	ND	NC	320.	NC	NC
40.20	1391.	34.6	11.3	2791.	1.06	3.9	53.	ND	NC	320.	NC	NC
40.35	1277.	36.7	11.6	2855.	1.03	1.8	25.	ND	NC	294.	NC	NC
40.50	1301.	39.9	12.5	3063.	1.07	16.7	248.	ND	NC	299.	NC	NC
40.65	1370.	31.6	12.9	3171.	1.31	18.7	288.	ND	NC	315.	NC	NC
40.80	1368.	30.0	13.2	3242.	1.14	8.6	135.	ND	NC	315.	NC	NC
40.95	1421.	30.0	13.1	3222.	1.09	5.7	90.	ND	NC	327.	NC	NC
41.10	1472.	30.0	12.9	3166.	1.15	9.3	143.	ND	NC	339.	NC	NC
41.25	1492.	30.0	12.8	3156.	1.13	7.7	117.	ND	NC	343.	NC	NC
41.40	1446.	30.0	13.0	3197.	1.08	4.9	76.	ND	NC	333.	NC	NC
41.55	1421.	30.1	13.0	3198.	1.10	6.1	95.	ND	NC	327.	NC	NC
41.70	1410.	30.2	13.2	3246.	1.12	7.3	115.	ND	NC	324.	NC	NC
41.85	1398.	30.1	13.3	3268.	1.08	4.9	78.	ND	NC	322.	NC	NC
42.00	1384.	30.3	13.4	3293.	1.06	3.8	61.	ND	NC	318.	NC	NC
42.15	1382.	30.3	13.3	3263.	1.05	3.3	52.	ND	NC	318.	NC	NC
42.30	1341.	30.1	13.3	3268.	1.06	3.9	61.	ND	NC	308.	NC	NC
42.45	1357.	29.3	13.4	3285.	1.06	3.4	54.	ND	NC	312.	NC	NC
42.60	1376.	29.7	13.5	3315.	1.05	2.8	46.	ND	NC	316.	NC	NC
42.75	1398.	30.2	13.6	3335.	1.05	3.3	53.	ND	NC	321.	NC	NC
42.90	1425.	29.7	13.5	3325.	1.07	4.3	69.	ND	NC	328.	NC	NC
43.05	1455.	28.4	13.3	3282.	1.05	2.9	46.	ND	NC	335.	NC	NC
43.20	1432.	29.4	13.2	3253.	1.06	3.5	56.	ND	NC	329.	NC	NC
43.35	1408.	31.3	13.4	3292.	1.07	4.2	66.	ND	NC	324.	NC	NC
43.50	1392.	30.3	13.6	3337.	1.06	3.9	63.	ND	NC	320.	NC	NC
43.65	1383.	29.6	13.6	3337.	1.05	3.1	50.	ND	NC	318.	NC	NC
43.80	1390.	28.9	13.5	3322.	1.04	2.7	44.	ND	NC	320.	NC	NC
43.95	1356.	28.9	13.3	3279.	1.04	2.6	42.	ND	NC	312.	NC	NC
44.10	1332.	28.7	13.2	3258.	1.04	2.6	41.	ND	NC	306.	NC	NC
44.25	1320.	27.7	13.3	3278.	1.04	2.4	37.	ND	NC	304.	NC	NC
44.40	1345.	27.4	13.3	3282.	1.04	2.7	43.	ND	NC	309.	NC	NC
44.55	1031.	24.0	12.9	3162.	1.06	3.6	55.	ND	NC	237.	NC	NC
44.70	772.	18.3	11.9	2923.	1.05	2.9	42.	ND	NC	178.	NC	NC
44.85	749.	16.7	11.0	2700.	1.05	2.9	38.	ND	NC	172.	NC	NC
45.00	707.	16.4	10.4	2551.	1.05	2.8	35.	ND	NC	163.	NC	NC
45.15	397.	12.1	9.8	2405.	1.03	1.7	20.	ND	NC	91.	NC	NC
45.30	89.	5.3	7.0	1710.	1.01	0.6	5.	ND	NC	21.	NC	NC
45.45	-1.	2.6	3.8	926.	1.01	0.3	2.	ND	NC	-0.	NC	NC
45.60	4.	1.4	1.7	424.	1.00	0.	0.	ND	NC	1.	NC	NC
45.75	7.	0.7	0.9	230.	1.00	0.	0.	ND	NC	2.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 29 78
RUN NUMBER- 40
SEGMENT NUMBER- 1
WATER DEPTH- 20 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 420 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	26.	4.2	0.2	56.	1.00	0.	0.	ND	NC	5.	NC	NC
0.15	45.	4.7	0.3	69.	1.01	0.3	0.	ND	NC	10.	NC	NC
0.30	62.	5.2	0.3	75.	1.01	0.3	0.	ND	NC	14.	NC	NC
0.45	91.	5.5	0.3	73.	1.01	0.4	0.	ND	NC	21.	NC	NC
0.60	129.	6.0	0.3	65.	1.01	0.4	0.	ND	NC	30.	NC	NC
0.75	159.	7.1	0.3	75.	1.00	0.	0.	ND	NC	37.	NC	NC
0.90	194.	8.1	0.3	75.	1.00	0.	0.	ND	NC	45.	NC	NC
1.05	254.	9.3	0.3	75.	1.01	0.3	0.	ND	NC	58.	NC	NC
1.20	282.	10.7	0.3	75.	1.01	0.5	0.	ND	NC	65.	NC	NC
1.35	319.	12.1	0.3	75.	1.01	0.4	0.	ND	NC	73.	NC	NC
1.50	341.	14.0	0.3	84.	1.00	0.	0.	ND	NC	78.	NC	NC
1.65	332.	15.9	1.0	255.	1.00	0.	0.	ND	NC	76.	NC	NC
1.80	431.	16.0	2.4	596.	1.01	0.4	1.	ND	NC	99.	NC	NC
1.95	589.	15.8	6.1	1512.	1.01	0.4	3.	ND	NC	135.	NC	NC
2.10	637.	16.0	8.9	2183.	1.00	0.	0.	ND	NC	147.	NC	NC
2.25	736.	16.5	10.2	2506.	1.02	1.1	14.	ND	NC	169.	NC	NC
2.40	846.	17.0	10.6	2603.	1.04	2.7	34.	ND	NC	195.	NC	NC
2.55	910.	19.0	11.2	2758.	1.05	2.9	39.	ND	NC	209.	NC	NC
2.70	1084.	21.3	11.6	2841.	1.05	2.8	39.	ND	NC	249.	NC	NC
2.85	1256.	22.8	12.1	2974.	1.04	2.7	39.	ND	NC	289.	NC	NC
3.00	1285.	24.2	12.8	3146.	1.04	2.6	40.	ND	NC	296.	NC	NC
3.15	1283.	25.7	13.4	3299.	1.04	2.4	39.	ND	NC	295.	NC	NC
3.30	1282.	25.2	13.3	3273.	1.04	2.5	40.	ND	NC	295.	NC	NC
3.45	1280.	23.7	13.3	3273.	1.04	2.5	39.	ND	NC	294.	NC	NC
3.60	1287.	23.6	13.5	3314.	1.04	2.3	37.	ND	NC	296.	NC	NC
3.75	1298.	23.4	13.6	3336.	1.03	2.1	33.	ND	NC	298.	NC	NC
3.90	1314.	23.0	13.6	3356.	1.01	0.6	10.	ND	NC	302.	NC	NC
4.05	1351.	23.7	13.3	3280.	1.03	1.8	29.	ND	NC	311.	NC	NC
4.20	1365.	24.7	12.6	3097.	1.01	0.8	12.	ND	NC	314.	NC	NC
4.35	1376.	24.8	12.7	3112.	1.02	1.0	15.	ND	NC	317.	NC	NC
4.50	1395.	25.0	13.5	3310.	1.06	3.7	60.	ND	NC	321.	NC	NC
4.65	1374.	24.1	13.5	3315.	1.16	9.5	153.	ND	NC	316.	NC	NC
4.80	1291.	22.6	11.5	2826.	1.15	9.1	125.	ND	NC	297.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1344.	26.5	9.1	2238.	1.05	2.9	32.	ND	NC	309.	NC	NC
5.10	1340.	27.7	9.5	2340.	1.01	0.6	7.	ND	NC	308.	NC	NC
5.25	1328.	25.3	11.7	2880.	1.05	2.8	40.	ND	NC	305.	NC	NC
5.40	1291.	25.5	13.5	3320.	1.16	9.6	155.	ND	NC	297.	NC	NC
5.55	1283.	27.1	13.8	3400.	1.05	3.0	50.	ND	NC	295.	NC	NC
5.70	1296.	25.9	13.0	3195.	1.01	0.8	12.	ND	NC	298.	NC	NC
5.85	1327.	25.4	13.2	3244.	1.02	1.3	20.	ND	NC	305.	NC	NC
6.00	1346.	26.3	13.4	3301.	1.09	5.7	92.	ND	NC	309.	NC	NC
6.15	1444.	27.2	13.5	3325.	1.13	8.1	130.	ND	NC	332.	NC	NC
6.30	1439.	28.0	13.7	3377.	1.09	5.6	92.	ND	NC	331.	NC	NC
6.45	1456.	28.2	14.0	3451.	1.09	5.7	95.	ND	NC	335.	NC	NC
6.60	1461.	27.8	14.4	3532.	1.12	7.6	130.	ND	NC	336.	NC	NC
6.75	1449.	27.3	14.4	3542.	1.07	4.5	78.	ND	NC	333.	NC	NC
6.90	1472.	27.6	14.4	3531.	1.07	4.4	75.	ND	NC	339.	NC	NC
7.05	1497.	27.7	14.4	3531.	1.09	5.3	91.	ND	NC	344.	NC	NC
7.20	1507.	26.9	14.5	3572.	1.08	4.8	83.	ND	NC	347.	NC	NC
7.35	1527.	27.6	14.5	3571.	1.06	3.9	67.	ND	NC	351.	NC	NC
7.50	1590.	28.6	14.2	3493.	1.08	4.6	78.	ND	NC	356.	NC	NC
7.65	1578.	28.8	14.5	3561.	1.07	4.5	77.	ND	NC	363.	NC	NC
7.80	1546.	28.7	14.7	3616.	1.06	3.7	65.	ND	NC	356.	NC	NC
7.95	1507.	28.7	14.5	3578.	1.06	3.6	63.	ND	NC	347.	NC	NC
8.10	1509.	28.7	14.5	3578.	1.06	3.4	60.	ND	NC	345.	NC	NC
8.25	1485.	28.7	14.5	3578.	1.05	3.3	57.	ND	NC	342.	NC	NC
8.40	1483.	28.7	14.5	3578.	1.06	3.4	59.	ND	NC	341.	NC	NC
8.55	1493.	28.7	14.6	3582.	1.07	4.2	73.	ND	NC	343.	NC	NC
8.70	1498.	28.7	14.6	3590.	1.10	6.3	110.	ND	NC	345.	NC	NC
8.85	1487.	28.7	14.2	3496.	1.10	6.3	107.	ND	NC	342.	NC	NC
9.00	1473.	28.6	14.1	3463.	1.09	5.7	96.	ND	NC	339.	NC	NC
9.15	1452.	28.6	14.2	3503.	1.09	5.2	89.	ND	NC	334.	NC	NC
9.30	1425.	28.6	14.4	3548.	1.10	6.0	104.	ND	NC	328.	NC	NC
9.45	1415.	28.6	14.3	3519.	1.08	4.8	82.	ND	NC	325.	NC	NC
9.60	1413.	28.6	14.3	3529.	1.08	5.0	85.	ND	NC	325.	NC	NC
9.75	1435.	28.6	14.3	3526.	1.10	5.8	99.	ND	NC	330.	NC	NC
9.90	1451.	28.6	14.3	3512.	1.10	5.8	98.	ND	NC	334.	NC	NC
10.05	1467.	28.6	14.4	3550.	1.08	4.9	85.	ND	NC	337.	NC	NC
10.20	1492.	28.6	14.4	3543.	1.09	5.2	90.	ND	NC	343.	NC	NC
10.35	1506.	28.6	14.5	3572.	1.10	5.8	100.	ND	NC	346.	NC	NC
10.50	1534.	28.5	14.5	3577.	1.09	5.5	96.	ND	NC	353.	NC	NC
10.65	1575.	28.5	14.3	3521.	1.10	5.8	100.	ND	NC	362.	NC	NC

RUN NUMBER- 4
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1558.	28.5	14.3	3511.	1.12	7.4	126.	ND	NC	358.	NC	NC
10.95	1523.	28.5	14.3	3509.	1.11	6.4	110.	ND	NC	350.	NC	NC
11.10	1489.	28.5	14.2	3503.	1.11	6.4	109.	ND	NC	342.	NC	NC
11.25	1494.	28.5	14.3	3523.	1.12	7.5	128.	ND	NC	344.	NC	NC
11.40	1477.	28.5	14.5	3559.	1.12	7.0	121.	ND	NC	340.	NC	NC
11.55	1480.	28.5	14.2	3490.	1.11	6.8	114.	ND	NC	340.	NC	NC
11.70	1484.	28.5	13.9	3419.	1.11	6.9	115.	ND	NC	341.	NC	NC
11.85	1491.	28.5	13.9	3427.	1.14	8.4	140.	ND	NC	343.	NC	NC
12.00	1479.	28.4	14.1	3469.	1.14	8.6	144.	ND	NC	340.	NC	NC
12.15	1467.	28.4	13.9	3430.	1.13	7.6	127.	ND	NC	337.	NC	NC
12.30	1450.	28.4	13.7	3372.	1.14	8.7	143.	ND	NC	334.	NC	NC
12.45	1423.	28.4	13.9	3411.	1.15	9.2	153.	ND	NC	327.	NC	NC
12.60	1430.	28.4	14.1	3474.	1.13	8.1	137.	ND	NC	329.	NC	NC
12.75	1424.	28.4	13.8	3381.	1.14	8.5	139.	ND	NC	328.	NC	NC
12.90	1449.	28.4	13.2	3243.	1.19	11.6	183.	ND	NC	333.	NC	NC
13.05	1474.	28.4	13.8	3390.	1.20	12.3	202.	ND	NC	339.	NC	NC
13.20	1493.	28.4	14.1	3470.	1.16	9.7	164.	ND	NC	343.	NC	NC
13.35	1517.	28.4	13.8	3398.	1.21	12.8	210.	ND	NC	349.	NC	NC
13.50	1527.	28.3	13.7	3359.	1.25	15.4	251.	ND	NC	351.	NC	NC
13.65	1528.	28.3	13.8	3391.	1.21	12.7	210.	ND	NC	351.	NC	NC
13.80	1567.	28.3	13.9	3426.	1.21	12.8	212.	ND	NC	360.	NC	NC
13.95	1529.	28.3	13.8	3404.	1.29	17.6	290.	ND	NC	352.	NC	NC
14.10	1514.	28.3	13.8	3395.	1.27	16.2	267.	ND	NC	348.	NC	NC
14.25	1499.	28.3	13.7	3370.	1.24	14.4	236.	ND	NC	345.	NC	NC
14.40	1492.	28.3	13.5	3332.	1.29	17.5	283.	ND	NC	343.	NC	NC
14.55	1488.	28.3	13.8	3388.	1.30	18.3	301.	ND	NC	342.	NC	NC
14.70	1484.	28.3	13.6	3344.	1.21	12.9	210.	ND	NC	341.	NC	NC
14.85	1477.	28.3	13.4	3287.	1.20	12.4	197.	ND	NC	340.	NC	NC
15.00	1465.	28.3	13.3	3279.	1.25	15.1	241.	ND	NC	337.	NC	NC
15.15	1457.	28.2	13.3	3280.	1.23	13.8	220.	ND	NC	335.	NC	NC
15.30	1435.	28.2	13.5	3311.	1.17	10.4	167.	ND	NC	330.	NC	NC
15.45	1431.	28.2	13.6	3342.	1.18	10.8	175.	ND	NC	329.	NC	NC
15.60	1404.	28.2	13.7	3380.	1.17	10.5	172.	ND	NC	323.	NC	NC
15.75	1414.	28.2	14.0	3448.	1.13	7.6	127.	ND	NC	325.	NC	NC
15.90	1428.	28.2	13.8	3405.	1.08	4.7	78.	ND	NC	328.	NC	NC
16.05	1443.	28.2	13.7	3371.	1.23	14.2	232.	ND	NC	332.	NC	NC
16.20	1455.	28.2	13.9	3411.	1.23	14.2	234.	ND	NC	335.	NC	NC
16.35	1468.	28.2	14.1	3466.	1.16	9.7	164.	ND	NC	338.	NC	NC
16.50	1489.	28.2	14.0	3453.	1.18	11.1	186.	ND	NC	343.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1518.	28.1	13.7	3368.	1.26	15.6	255.	ND	NC	349.	NC	NC
16.80	1567.	28.1	13.9	3423.	1.21	12.8	213.	ND	NC	360.	NC	NC
16.95	1560.	28.1	13.7	3380.	1.22	13.3	217.	ND	NC	359.	NC	NC
17.10	1522.	28.1	13.5	3323.	1.27	16.1	260.	ND	NC	350.	NC	NC
17.25	1495.	28.1	13.8	3396.	1.30	17.9	295.	ND	NC	344.	NC	NC
17.40	1487.	28.1	13.8	3404.	1.22	13.3	220.	ND	NC	342.	NC	NC
17.55	1482.	28.1	13.7	3375.	1.22	13.5	221.	ND	NC	341.	NC	NC
17.70	1479.	28.1	13.8	3392.	1.23	13.7	226.	ND	NC	340.	NC	NC
17.85	1480.	28.1	13.9	3413.	1.19	11.7	194.	ND	NC	340.	NC	NC
18.00	1474.	28.1	13.9	3409.	1.78	47.5	787.	ND	NC	339.	NC	NC
18.15	1453.	28.0	13.7	3366.	1.48	28.9	472.	ND	NC	334.	NC	NC
18.30	1439.	28.0	13.9	3411.	1.16	9.9	164.	ND	NC	331.	NC	NC
18.45	1429.	28.0	13.7	3366.	1.13	7.7	125.	ND	NC	329.	NC	NC
18.60	1442.	28.0	13.7	3375.	1.12	7.1	117.	ND	NC	332.	NC	NC
18.75	1415.	28.0	13.3	3277.	1.16	9.5	152.	ND	NC	325.	NC	NC
18.90	1407.	28.0	13.6	3355.	1.13	7.7	126.	ND	NC	324.	NC	NC
19.05	1420.	28.0	13.8	3403.	1.13	7.7	127.	ND	NC	327.	NC	NC
19.20	1451.	28.0	13.9	3413.	1.16	9.7	161.	ND	NC	334.	NC	NC
19.35	1472.	28.0	13.9	3426.	1.16	9.9	164.	ND	NC	339.	NC	NC
19.50	1482.	28.0	14.1	3468.	1.14	8.4	142.	ND	NC	341.	NC	NC
19.65	1498.	28.0	14.0	3434.	1.17	10.2	169.	ND	NC	345.	NC	NC
19.80	1542.	27.9	14.1	3456.	1.19	11.6	195.	ND	NC	355.	NC	NC
19.95	1568.	27.9	14.4	3544.	1.18	11.0	190.	ND	NC	361.	NC	NC
20.10	1543.	27.9	14.3	3510.	1.16	9.8	167.	ND	NC	355.	NC	NC
20.25	1499.	27.9	13.9	3420.	1.22	13.0	217.	ND	NC	345.	NC	NC
20.40	1484.	27.9	13.7	3377.	1.21	12.6	206.	ND	NC	341.	NC	NC
20.55	1489.	27.9	13.9	3414.	1.18	11.0	182.	ND	NC	342.	NC	NC
20.70	1482.	27.8	14.0	3434.	1.21	12.7	211.	ND	NC	341.	NC	NC
20.85	1474.	27.8	13.9	3426.	1.21	12.4	207.	ND	NC	339.	NC	NC
21.00	1473.	27.8	14.2	3486.	1.19	11.4	193.	ND	NC	339.	NC	NC
21.15	1473.	27.8	13.7	3361.	1.17	10.1	165.	ND	NC	339.	NC	NC
21.30	1463.	27.8	13.5	3321.	1.18	10.7	172.	ND	NC	336.	NC	NC
21.45	1464.	27.7	13.3	3266.	1.20	12.3	195.	ND	NC	337.	NC	NC
21.60	1432.	27.7	13.3	3278.	1.18	11.0	175.	ND	NC	329.	NC	NC
21.75	1407.	27.7	13.4	3300.	1.17	10.2	163.	ND	NC	324.	NC	NC
21.90	1411.	27.7	13.6	3354.	1.05	3.1	50.	ND	NC	325.	NC	NC
22.05	1421.	27.7	14.0	3438.	1.18	10.9	183.	ND	NC	327.	NC	NC
22.20	1443.	27.6	13.8	3399.	1.16	9.7	160.	ND	NC	332.	NC	NC
22.35	1458.	27.6	13.6	3350.	1.22	13.5	219.	ND	NC	335.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1472.	27.6	13.8	3397.	1.26	15.6	257.	ND	NC	339.	NC	NC
22.65	1484.	27.6	13.9	3427.	1.24	14.4	240.	ND	NC	341.	NC	NC
22.80	1541.	27.6	13.7	3375.	1.26	15.5	254.	ND	NC	354.	NC	NC
22.95	1563.	27.5	13.5	3315.	1.30	18.0	290.	ND	NC	360.	NC	NC
23.10	1572.	27.5	13.6	3351.	1.27	16.6	270.	ND	NC	361.	NC	NC
23.25	1558.	27.5	13.5	3328.	1.88	53.6	867.	ND	NC	358.	NC	NC
23.40	1516.	27.5	13.1	3222.	1.56	34.2	535.	ND	NC	349.	NC	NC
23.55	1482.	27.5	13.0	3204.	1.32	19.3	300.	ND	NC	341.	NC	NC
23.70	1488.	27.4	13.4	3302.	1.32	19.1	307.	ND	NC	342.	NC	NC
23.85	1499.	27.4	13.3	3268.	1.32	19.5	310.	ND	NC	345.	NC	NC
24.00	1499.	27.4	13.2	3239.	1.45	27.1	426.	ND	NC	345.	NC	NC
24.15	1496.	27.4	13.5	3325.	1.45	27.2	438.	ND	NC	344.	NC	NC
24.30	1469.	27.4	13.1	3227.	1.21	13.0	203.	ND	NC	338.	NC	NC
24.45	1459.	27.4	13.0	3196.	1.21	12.9	201.	ND	NC	336.	NC	NC
24.60	1447.	27.3	13.2	3245.	1.24	14.6	230.	ND	NC	333.	NC	NC
24.75	1417.	27.3	13.3	3276.	1.29	17.8	283.	ND	NC	326.	NC	NC
24.90	1394.	27.3	12.8	3158.	1.24	14.8	226.	ND	NC	321.	NC	NC
25.05	1393.	27.3	12.5	3067.	1.24	14.7	219.	ND	NC	320.	NC	NC
25.20	1398.	27.3	12.4	3045.	1.12	7.0	104.	ND	NC	322.	NC	NC
25.35	1438.	27.3	12.9	3169.	1.01	0.5	8.	ND	NC	331.	NC	NC
25.50	1491.	27.3	13.0	3187.	1.03	1.8	28.	ND	NC	343.	NC	NC
25.65	1490.	27.3	13.8	3387.	1.26	15.9	262.	ND	NC	343.	NC	NC
25.80	1496.	27.3	13.8	3385.	1.26	15.9	261.	ND	NC	344.	NC	NC
25.95	1520.	27.3	13.6	3336.	1.26	15.7	254.	ND	NC	350.	NC	NC
26.10	1576.	27.3	13.5	3310.	1.29	17.5	281.	ND	NC	362.	NC	NC
26.25	1579.	27.4	13.4	3305.	1.29	17.5	281.	ND	NC	363.	NC	NC
26.40	1547.	27.4	13.4	3287.	1.27	16.2	259.	ND	NC	356.	NC	NC
26.55	1514.	27.4	13.3	3263.	1.28	17.2	272.	ND	NC	348.	NC	NC
26.70	1491.	27.4	13.4	3284.	1.28	17.0	271.	ND	NC	343.	NC	NC
26.85	1464.	27.4	14.1	3461.	1.24	14.5	244.	ND	NC	337.	NC	NC
27.00	1467.	27.4	13.6	3335.	1.24	14.7	238.	ND	NC	337.	NC	NC
27.15	1486.	27.4	13.2	3257.	1.27	16.3	258.	ND	NC	342.	NC	NC
27.30	1474.	27.4	13.8	3389.	1.29	17.5	288.	ND	NC	339.	NC	NC
27.45	1468.	27.5	13.1	3228.	1.19	11.4	178.	ND	NC	338.	NC	NC
27.60	1457.	27.5	13.1	3229.	1.16	9.4	148.	ND	NC	335.	NC	NC
27.75	1438.	27.5	13.5	3310.	1.25	14.9	240.	ND	NC	331.	NC	NC
27.90	1419.	27.5	13.4	3288.	1.22	13.2	211.	ND	NC	326.	NC	NC
28.05	1411.	27.5	13.2	3249.	1.19	11.3	179.	ND	NC	325.	NC	NC
28.20	1366.	27.5	12.4	3044.	1.12	7.3	108.	ND	NC	314.	NC	NC

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1442.	27.5	10.6	2607.	1.04	2.3	30.	ND	NC	332.	NC	NC
28.50	1443.	27.5	12.2	3010.	1.02	1.1	16.	ND	NC	332.	NC	NC
28.65	1493.	27.6	12.9	3172.	1.13	7.9	122.	ND	NC	343.	NC	NC
28.80	1481.	27.6	13.9	3424.	1.41	25.0	415.	ND	NC	341.	NC	NC
28.95	1514.	27.6	14.1	3469.	1.25	15.2	256.	ND	NC	348.	NC	NC
29.10	1560.	27.6	13.4	3301.	1.21	13.0	208.	ND	NC	359.	NC	NC
29.25	1596.	27.6	13.0	3207.	1.28	16.8	262.	ND	NC	367.	NC	NC
29.40	1558.	27.6	12.8	3137.	1.39	23.8	363.	ND	NC	358.	NC	NC
29.55	1519.	27.6	13.4	3295.	1.29	17.5	280.	ND	NC	349.	NC	NC
29.70	1492.	27.6	13.1	3230.	1.24	14.6	229.	ND	NC	343.	NC	NC
29.85	1492.	27.6	12.9	3162.	1.33	19.8	305.	ND	NC	343.	NC	NC
30.00	1483.	27.7	13.1	3214.	1.34	20.7	323.	ND	NC	341.	NC	NC
30.15	1486.	27.7	13.7	3360.	1.22	13.0	213.	ND	NC	342.	NC	NC
30.30	1492.	27.7	13.1	3223.	1.23	14.2	222.	ND	NC	343.	NC	NC
30.45	1486.	27.7	13.0	3198.	1.28	17.0	264.	ND	NC	342.	NC	NC
30.60	1472.	27.7	13.2	3256.	1.25	15.0	237.	ND	NC	338.	NC	NC
30.75	1442.	27.7	13.5	3318.	1.17	10.6	170.	ND	NC	332.	NC	NC
30.90	1448.	27.7	13.3	3275.	1.16	10.0	158.	ND	NC	333.	NC	NC
31.05	1411.	27.7	13.6	3338.	1.20	12.0	194.	ND	NC	325.	NC	NC
31.20	1392.	27.8	13.3	3280.	1.18	10.7	170.	ND	NC	320.	NC	NC
31.35	1428.	27.8	13.5	3312.	1.15	9.3	149.	ND	NC	328.	NC	NC
31.50	1443.	27.8	13.7	3376.	1.20	12.2	200.	ND	NC	332.	NC	NC
31.65	1452.	27.8	13.9	3420.	1.21	12.6	210.	ND	NC	334.	NC	NC
31.80	1461.	27.8	13.7	3363.	1.18	11.2	182.	ND	NC	336.	NC	NC
31.95	1483.	27.8	13.6	3348.	1.18	10.8	175.	ND	NC	341.	NC	NC
32.10	1494.	27.8	13.9	3416.	1.24	14.5	240.	ND	NC	344.	NC	NC
32.25	1506.	27.8	13.9	3414.	1.22	13.3	220.	ND	NC	346.	NC	NC
32.40	1546.	27.8	13.3	3279.	1.18	11.1	177.	ND	NC	356.	NC	NC
32.55	1556.	27.9	13.1	3224.	1.22	13.0	204.	ND	NC	358.	NC	NC
32.70	1535.	27.9	13.5	3317.	1.24	14.6	235.	ND	NC	353.	NC	NC
32.85	1498.	27.9	13.7	3358.	1.19	11.4	185.	ND	NC	345.	NC	NC
33.00	1494.	27.9	13.5	3329.	1.21	12.7	206.	ND	NC	344.	NC	NC
33.15	1475.	27.9	13.5	3327.	1.23	13.9	224.	ND	NC	339.	NC	NC
33.30	1463.	27.9	13.7	3380.	1.20	12.1	198.	ND	NC	337.	NC	NC
33.45	1469.	27.9	13.7	3380.	1.18	10.9	179.	ND	NC	338.	NC	NC
33.60	1456.	27.9	13.6	3335.	1.20	12.0	195.	ND	NC	335.	NC	NC
33.75	1438.	27.9	13.3	3276.	1.20	11.9	189.	ND	NC	331.	NC	NC
33.90	1435.	28.0	13.4	3302.	1.17	10.4	166.	ND	NC	330.	NC	NC
34.05	1431.	28.0	13.5	3324.	1.12	7.4	120.	ND	NC	329.	NC	NC

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2.	1401.	28.0	13.9	3412.	1.17	10.4	173.	ND	NC	322.	NC	NC
34.35	1402.	28.0	13.9	3421.	1.18	11.2	186.	ND	NC	323.	NC	NC
34.5[illegible]	1402.	28.0	13.8	3393.	1.14	8.6	142.	ND	NC	323.	NC	NC
34.65	1404.	28.0	13.8	3395.	1.17	10.1	166.	ND	NC	323.	NC	NC
34.8.	1435.	28.0	14.1	3463.	1.20	12.0	202.	ND	NC	330.	NC	NC
34.95	1456.	28.0	13.9	3421.	1.17	10.2	169.	ND	NC	335.	NC	NC
35.10	1472.	28.0	13.6	3348.	1.18	10.9	176.	ND	NC	339.	NC	NC
35.25	1489.	28.1	13.6	3334.	1.22	13.3	215.	ND	NC	342.	NC	NC
35.40	1517.	28.1	13.9	3412.	1.21	12.8	213.	ND	NC	349.	NC	NC
35.55	1549.	28.1	13.9	3422.	1.16	9.4	157.	ND	NC	356.	NC	NC
35.7[illegible]	1546.	28.1	13.7	3372.	1.23	13.9	228.	ND	NC	356.	NC	NC
35.85	1501.	28.1	13.5	3318.	1.22	13.2	213.	ND	NC	345.	NC	NC
36.00	1473.	28.1	13.7	3364.	1.18	10.6	174.	ND	NC	339.	NC	NC
36.15	1478.	28.1	13.8	3403.	1.21	12.7	210.	ND	NC	340.	NC	NC
36.3[illegible]	1478.	28.1	13.6	3343.	1.23	13.7	222.	ND	NC	340.	NC	NC
36.45	1470.	28.1	13.7	3378.	1.21	12.9	212.	ND	NC	338.	NC	NC
36.60	1460.	28.2	13.7	3359.	1.15	9.3	152.	ND	NC	336.	NC	NC
36.75	1452.	28.2	13.5	3332.	1.15	8.9	144.	ND	NC	334.	NC	NC
36.9[illegible]	1445.	28.2	13.5	3318.	1.22	13.2	213.	ND	NC	332.	NC	NC
37.05	1429.	28.2	13.4	3284.	1.16	9.7	154.	ND	NC	329.	NC	NC
37.20	1415.	28.2	13.2	3243.	1.12	7.0	110.	ND	NC	325.	NC	NC
37.35	1422.	28.2	13.5	3308.	1.19	11.8	189.	ND	NC	327.	NC	NC
37.50	1394.	28.2	13.7	3362.	1.21	12.6	205.	ND	NC	321.	NC	NC
37.65	1399.	28.2	13.6	3335.	1.15	9.3	151.	ND	NC	322.	NC	NC
37.80	1420.	28.2	13.7	3378.	1.20	12.3	201.	ND	NC	327.	NC	NC
37.95	1441.	28.3	13.7	3378.	1.28	16.8	275.	ND	NC	331.	NC	NC
38.10	1459.	28.3	13.9	3411.	1.21	12.8	212.	ND	NC	336.	NC	NC
38.25	1491.	28.3	13.7	3377.	1.22	13.1	214.	ND	NC	343.	NC	NC
38.40	1521.	28.3	13.7	3370.	1.31	18.8	307.	ND	NC	350.	NC	NC
38.55	1524.	28.3	13.7	3374.	1.27	16.5	270.	ND	NC	351.	NC	NC
38.70	1536.	28.3	13.8	3402.	1.22	13.1	217.	ND	NC	353.	NC	NC
38.85	1542.	28.4	13.8	3402.	1.28	16.9	280.	ND	NC	355.	NC	NC
39.00	1504.	28.4	13.4	3306.	1.32	19.6	314.	ND	NC	346.	NC	NC
39.15	1467.	28.4	13.8	3401.	1.27	16.2	267.	ND	NC	337.	NC	NC
39.30	1467.	28.5	13.4	3290.	1.26	15.5	247.	ND	NC	337.	NC	NC
39.45	1473.	28.5	13.3	3271.	1.34	20.4	324.	ND	NC	339.	NC	NC
39.60	1475.	28.5	13.7	3360.	1.32	19.7	321.	ND	NC	339.	NC	NC
39.75	1454.	28.6	13.7	3361.	1.24	14.5	237.	ND	NC	334.	NC	NC
39.9[illegible]	1453.	28.6	13.3	3268.	1.27	16.1	255.	ND	NC	334.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1464.	28.7	13.3	3260.	1.38	19.3	306.	ND	NC	337.	NC	NC
40.20	1426.	28.7	13.4	3300.	1.23	14.0	224.	ND	NC	328.	NC	NC
40.35	1402.	28.7	12.9	3174.	1.21	12.8	197.	ND	NC	323.	NC	NC
40.50	1396.	28.9	13.1	3224.	1.27	16.6	259.	ND	NC	321.	NC	NC
40.65	1392.	28.8	13.4	3307.	1.39	23.6	379.	ND	NC	325.	NC	NC
40.80	1417.	28.8	13.5	3326.	1.26	15.6	252.	ND	NC	326.	NC	NC
40.95	1443.	28.9	13.2	3256.	1.34	20.3	321.	ND	NC	332.	NC	NC
41.10	1426.	28.5	13.3	3269.	1.47	28.2	448.	ND	NC	328.	NC	NC
41.25	1468.	27.7	13.2	3247.	1.34	20.5	324.	ND	NC	338.	NC	NC
41.40	1482.	27.5	12.7	3113.	1.31	18.7	283.	ND	NC	341.	NC	NC
41.55	1536.	29.4	12.7	3129.	1.39	23.5	357.	ND	NC	353.	NC	NC
41.70	1575.	28.9	13.3	3265.	1.38	22.8	361.	ND	NC	362.	NC	NC
41.85	1559.	26.2	12.9	3166.	1.23	11.8	182.	ND	NC	358.	NC	NC
42.00	1537.	28.3	11.7	2874.	1.39	23.6	330.	ND	NC	354.	NC	NC
42.15	1530.	29.9	10.8	2666.	1.51	31.1	402.	ND	NC	352.	NC	NC
42.30	1500.	31.8	10.8	2658.	1.39	5.3	69.	ND	NC	345.	NC	NC
42.45	1483.	32.1	11.4	2804.	1.29	17.6	239.	ND	NC	341.	NC	NC
42.60	1477.	32.1	12.5	3081.	1.23	13.8	207.	ND	NC	343.	NC	NC
42.75	1473.	31.5	13.3	3274.	1.10	6.3	100.	ND	NC	339.	NC	NC
42.90	1436.	31.0	12.7	3111.	1.07	4.5	69.	ND	NC	333.	NC	NC
43.05	1424.	29.4	12.2	2994.	1.25	14.9	217.	ND	NC	328.	NC	NC
43.20	1456.	32.3	11.5	2824.	1.16	9.4	129.	ND	NC	335.	NC	NC
43.35	1458.	32.7	9.7	2376.	1.01	0.7	8.	ND	NC	335.	NC	NC
43.50	1412.	31.2	12.8	3148.	1.07	4.2	65.	ND	NC	325.	NC	NC
43.65	1417.	30.5	13.1	3234.	1.29	17.7	277.	ND	NC	326.	NC	NC
43.80	1403.	29.2	13.1	3230.	1.49	29.6	464.	ND	NC	323.	NC	NC
43.95	1388.	29.7	13.1	3226.	1.34	20.5	322.	ND	NC	319.	NC	NC
44.10	1393.	30.0	13.0	3201.	1.33	20.1	312.	ND	NC	320.	NC	NC
44.25	1474.	29.3	13.0	3191.	1.51	31.1	482.	ND	NC	339.	NC	NC
44.40	1476.	28.8	13.0	3189.	1.48	29.3	454.	ND	NC	338.	NC	NC
44.55	1488.	27.6	12.5	3083.	1.42	25.6	383.	ND	NC	342.	NC	NC
44.70	1536.	30.0	11.7	2868.	1.51	30.8	429.	ND	NC	353.	NC	NC
44.85	1641.	29.8	11.7	2867.	1.41	24.7	344.	ND	NC	377.	NC	NC
45.00	1605.	29.9	11.8	2894.	1.13	7.9	111.	ND	NC	369.	NC	NC
45.15	1584.	30.6	12.5	3071.	1.33	20.0	298.	ND	NC	364.	NC	NC
45.30	1519.	30.7	13.1	3218.	1.38	23.0	359.	ND	NC	349.	NC	NC
45.45	1472.	29.5	13.6	3340.	1.25	15.2	247.	ND	NC	339.	NC	NC
45.60	1484.	29.1	13.5	3316.	1.21	12.6	203.	ND	NC	340.	NC	NC
45.75	1476.	30.5	13.0	3185.	1.29	17.6	272.	ND	NC	339.	NC	NC

RUN NUMBER- 46
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1457.	29.7	13.1	3227.	1.38	23.1	361.	ND	NC	335.	NC	NC
46.05	1456.	29.7	13.3	3274.	1.38	22.8	362.	ND	NC	335.	NC	NC

LOCATION- MASONBORO INLET
DATE OF TEST- 9 29 78
RUN NUMBER- 40
SEGMENT NUMBER- 2
WATER DEPTH- 16 TO 18 FT
MATERIAL TYPE- SAND
IN SITU PERCENT SOLIDS- 61.20
DISCHARGE LINE LENGTH- 420 FT

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN-SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	1477.	30.3	13.6	3350.	1.35	21.1	344.	ND	NC	340.	NC	NC
0.15	1488.	31.0	13.3	3267.	1.32	19.5	310.	ND	NC	342.	NC	NC
0.30	1483.	31.1	13.0	3198.	1.30	17.9	278.	ND	NC	341.	NC	NC
0.45	1467.	30.6	13.3	3263.	1.38	23.3	369.	ND	NC	337.	NC	NC
0.60	1467.	30.4	13.3	3273.	1.38	23.0	365.	ND	NC	337.	NC	NC
0.75	1474.	31.1	13.2	3242.	1.36	21.6	340.	ND	NC	339.	NC	NC
0.90	1467.	29.9	12.8	3145.	1.33	20.3	309.	ND	NC	337.	NC	NC
1.05	1443.	29.5	13.1	3211.	1.35	21.4	334.	ND	NC	332.	NC	NC
1.20	1414.	30.1	13.1	3211.	1.33	19.9	311.	ND	NC	325.	NC	NC
1.35	1413.	29.9	13.2	3237.	1.26	15.8	249.	ND	NC	325.	NC	NC
1.50	1431.	28.9	13.3	3267.	1.37	22.6	358.	ND	NC	329.	NC	NC
1.65	1421.	28.9	13.4	3297.	1.30	18.0	288.	ND	NC	327.	NC	NC
1.80	1409.	30.4	13.4	3288.	1.29	17.4	278.	ND	NC	324.	NC	NC
1.95	1462.	30.1	13.3	3263.	1.38	23.3	369.	ND	NC	336.	NC	NC
2.10	1489.	28.6	13.6	3336.	1.44	26.6	431.	ND	NC	343.	NC	NC
2.25	1511.	26.3	13.3	3282.	1.32	19.4	310.	ND	NC	347.	NC	NC
2.40	1495.	26.4	11.0	2712.	1.28	17.2	226.	ND	NC	344.	NC	NC
2.55	1589.	28.8	10.3	2542.	1.25	15.2	188.	ND	NC	366.	NC	NC
2.70	1594.	29.6	10.8	2644.	1.01	0.8	10.	ND	NC	367.	NC	NC
2.85	1537.	28.7	12.5	3067.	1.06	3.8	57.	ND	NC	353.	NC	NC
3.00	1469.	28.4	13.0	3202.	1.21	13.0	202.	ND	NC	338.	NC	NC
3.15	1439.	28.6	12.6	3092.	1.35	21.2	318.	ND	NC	331.	NC	NC
3.30	1475.	32.7	11.6	2852.	1.21	12.9	178.	ND	NC	339.	NC	NC
3.45	1510.	33.7	10.0	2458.	1.04	2.3	27.	ND	NC	347.	NC	NC
3.60	1466.	28.3	11.3	2788.	1.25	15.2	206.	ND	NC	337.	NC	NC
3.75	1442.	30.6	13.2	3241.	1.27	16.3	256.	ND	NC	332.	NC	NC
3.90	1463.	32.6	11.2	2746.	1.07	4.0	53.	ND	NC	336.	NC	NC
4.05	1461.	32.5	11.8	2892.	1.03	1.9	27.	ND	NC	336.	NC	NC
4.20	1438.	27.9	12.6	3111.	1.30	18.4	278.	ND	NC	331.	NC	NC
4.35	1410.	27.8	13.2	3240.	1.42	25.4	400.	ND	NC	324.	NC	NC
4.50	1401.	28.6	13.5	3328.	1.19	11.7	189.	ND	NC	322.	NC	NC
4.65	1397.	28.2	13.8	3392.	1.16	9.7	160.	ND	NC	321.	NC	NC
4.80	1417.	27.5	14.1	3468.	1.13	7.9	133.	ND	NC	326.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1423.	27.0	14.2	3484.	1.09	5.2	87.	ND	NC	327.	NC	NC
5.10	1450.	27.3	14.1	3464.	1.09	5.2	88.	ND	NC	333.	NC	NC
5.25	1464.	27.5	14.1	3464.	1.13	7.7	130.	ND	NC	337.	NC	NC
5.40	1485.	27.2	14.2	3501.	1.08	4.7	80.	ND	NC	342.	NC	NC
5.55	1534.	27.2	14.2	3490.	1.08	4.8	81.	ND	NC	353.	NC	NC
5.70	1557.	25.0	12.9	3171.	1.29	17.3	267.	ND	NC	358.	NC	NC
5.85	1534.	28.5	11.1	2718.	1.55	33.1	436.	ND	NC	353.	NC	NC
6.00	1619.	31.7	10.1	2475.	1.39	23.5	282.	ND	NC	372.	NC	NC
6.15	1553.	30.8	11.2	2753.	1.17	10.1	135.	ND	NC	357.	NC	NC
6.30	1478.	28.7	11.4	2801.	1.47	28.4	387.	ND	NC	340.	NC	NC
6.45	1522.	31.8	14.6	3589.	1.37	22.3	389.	ND	NC	351.	NC	NC
6.60	1497.	32.5	13.2	3241.	1.06	3.6	56.	ND	NC	344.	NC	NC
6.75	1482.	30.6	12.1	2983.	1.16	9.5	137.	ND	NC	341.	NC	NC
6.90	1474.	29.9	13.4	3300.	1.42	25.6	410.	ND	NC	339.	NC	NC
7.05	1468.	30.7	13.2	3255.	1.09	5.6	89.	ND	NC	338.	NC	NC
7.20	1457.	30.2	13.2	3247.	1.13	7.8	123.	ND	NC	335.	NC	NC
7.35	1436.	28.4	13.4	3287.	1.23	14.2	227.	ND	NC	330.	NC	NC
7.50	1408.	28.2	13.4	3296.	1.35	21.5	344.	ND	NC	324.	NC	NC
7.65	1415.	28.5	13.5	3313.	1.33	20.2	324.	ND	NC	325.	NC	NC
7.80	1405.	28.8	13.5	3332.	1.30	18.1	292.	ND	NC	323.	NC	NC
7.95	1419.	28.2	13.9	3407.	1.34	20.9	345.	ND	NC	326.	NC	NC
8.10	1442.	27.7	13.5	3323.	1.38	23.3	375.	ND	NC	332.	NC	NC
8.25	1472.	28.2	13.5	3321.	1.32	19.5	314.	ND	NC	339.	NC	NC
8.40	1490.	28.5	13.7	3367.	1.42	25.4	415.	ND	NC	343.	NC	NC
8.55	1509.	28.5	13.8	3384.	1.35	21.4	352.	ND	NC	345.	NC	NC
8.70	1525.	28.8	13.7	3357.	1.33	20.1	328.	ND	NC	351.	NC	NC
8.85	1578.	28.8	13.8	3393.	1.38	23.0	379.	ND	NC	363.	NC	NC
9.00	1544.	28.8	14.2	3486.	1.31	18.8	318.	ND	NC	355.	NC	NC
9.15	1515.	28.8	14.2	3501.	1.24	14.7	250.	ND	NC	348.	NC	NC
9.30	1502.	28.8	13.6	3349.	1.30	18.4	299.	ND	NC	345.	NC	NC
9.45	1493.	28.7	13.6	3356.	1.40	24.0	391.	ND	NC	344.	NC	NC
9.60	1492.	28.7	13.7	3361.	1.33	19.8	324.	ND	NC	343.	NC	NC
9.75	1497.	28.7	13.6	3335.	1.32	19.6	317.	ND	NC	344.	NC	NC
9.90	1485.	28.7	13.5	3330.	1.37	22.7	367.	ND	NC	342.	NC	NC
10.05	1476.	28.7	13.8	3393.	1.39	23.5	387.	ND	NC	343.	NC	NC
10.20	1476.	28.6	14.1	3464.	1.35	21.0	353.	ND	NC	340.	NC	NC
10.35	1456.	28.6	13.4	3289.	1.26	15.5	247.	ND	NC	335.	NC	NC
10.50	1444.	28.6	13.2	3240.	1.35	20.9	329.	ND	NC	332.	NC	NC
10.65	1419.	28.6	13.0	3200.	1.35	21.0	326.	ND	NC	326.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1408.	28.6	13.3	3271.	1.10	6.3	100.	ND	NC	324.	NC	NC
10.95	1400.	28.5	13.2	3257.	1.28	17.0	269.	ND	NC	322.	NC	NC
11.10	1426.	28.5	11.6	2851.	1.13	8.1	112.	ND	NC	328.	NC	NC
11.25	1449.	28.5	11.6	2852.	1.04	2.2	31.	ND	NC	333.	NC	NC
11.40	1432.	28.5	12.6	3104.	1.13	8.1	122.	ND	NC	329.	NC	NC
11.55	1480.	28.5	12.1	2981.	1.27	16.1	233.	ND	NC	340.	NC	NC
11.70	1557.	28.4	10.9	2683.	1.12	7.2	94.	ND	NC	358.	NC	NC
11.85	1567.	28.4	13.0	3188.	1.09	5.5	86.	ND	NC	360.	NC	NC
12.00	1579.	28.4	12.8	3149.	1.27	16.2	247.	ND	NC	363.	NC	NC
12.15	1585.	28.4	13.7	3360.	1.42	25.3	413.	ND	NC	365.	NC	NC
12.30	1542.	28.4	14.7	3611.	1.10	5.8	103.	ND	NC	355.	NC	NC
12.45	1499.	28.3	14.3	3516.	1.17	10.4	178.	ND	NC	345.	NC	NC
12.60	1506.	28.3	14.0	3440.	1.39	23.3	390.	ND	NC	345.	NC	NC
12.75	1502.	28.3	13.9	3415.	1.33	19.9	330.	ND	NC	345.	NC	NC
12.90	1493.	28.3	14.4	3532.	1.23	14.2	244.	ND	NC	343.	NC	NC
13.05	1462.	28.3	13.8	3400.	1.21	12.7	209.	ND	NC	336.	NC	NC
13.20	1455.	28.2	13.6	3352.	1.28	16.7	272.	ND	NC	335.	NC	NC
13.35	1462.	28.2	13.5	3312.	1.08	4.9	79.	ND	NC	336.	NC	NC
13.50	1457.	28.2	13.7	3374.	1.07	4.2	69.	ND	NC	335.	NC	NC
13.65	1438.	28.2	14.1	3468.	1.06	3.7	63.	ND	NC	331.	NC	NC
13.80	1419.	28.2	14.4	3544.	1.19	11.3	194.	ND	NC	326.	NC	NC
13.95	1406.	28.1	14.5	3558.	1.11	6.6	114.	ND	NC	324.	NC	NC
14.10	1418.	28.1	14.5	3554.	1.10	6.2	107.	ND	NC	326.	NC	NC
14.25	1416.	28.1	14.6	3603.	1.11	6.7	116.	ND	NC	326.	NC	NC
14.40	1458.	28.1	14.6	3603.	1.08	5.0	88.	ND	NC	333.	NC	NC
14.55	1469.	28.1	14.6	3586.	1.07	4.1	72.	ND	NC	338.	NC	NC
14.70	1477.	28.0	14.5	3566.	1.07	4.1	70.	ND	NC	340.	NC	NC
14.85	1485.	28.0	14.8	3648.	1.09	5.5	97.	ND	NC	342.	NC	NC
15.00	1499.	28.0	15.0	3695.	1.06	3.7	67.	ND	NC	345.	NC	NC
15.15	1518.	28.0	14.9	3668.	1.06	3.8	67.	ND	NC	349.	NC	NC
15.30	1527.	28.0	14.6	3594.	1.09	5.4	94.	ND	NC	351.	NC	NC
15.45	1512.	27.9	14.5	3573.	1.09	5.5	95.	ND	NC	348.	NC	NC
15.60	1505.	27.9	14.8	3641.	1.09	5.7	100.	ND	NC	346.	NC	NC
15.75	1496.	27.9	14.5	3573.	1.10	6.3	109.	ND	NC	344.	NC	NC
15.90	1474.	27.9	14.4	3535.	1.10	5.8	99.	ND	NC	339.	NC	NC
16.05	1456.	27.9	14.5	3560.	1.08	4.6	80.	ND	NC	335.	NC	NC
16.20	1456.	27.8	14.6	3594.	1.08	4.9	85.	ND	NC	335.	NC	NC
16.35	1462.	27.8	14.6	3611.	1.08	5.1	90.	ND	NC	336.	NC	NC
16.50	1463.	27.8	14.4	3552.	1.07	4.1	70.	ND	NC	336.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1459.	27.8	14.7	3607.	1.06	3.7	65.	ND	NC	335.	NC	NC
16.80	1437.	27.8	14.7	3611.	1.06	3.8	66.	ND	NC	331.	NC	NC
16.95	1428.	27.7	14.5	3568.	1.06	3.9	68.	ND	NC	328.	NC	NC
17.10	1414.	27.7	14.4	3531.	1.05	3.2	54.	ND	NC	325.	NC	NC
17.25	1410.	27.7	14.5	3559.	1.07	4.0	68.	ND	NC	324.	NC	NC
17.40	1414.	27.7	14.5	3570.	1.10	6.2	108.	ND	NC	325.	NC	NC
17.55	1423.	27.7	14.1	3459.	1.11	6.7	113.	ND	NC	327.	NC	NC
17.70	1446.	27.7	14.1	3458.	1.12	7.4	124.	ND	NC	333.	NC	NC
17.85	1460.	27.7	14.6	3582.	1.09	5.7	98.	ND	NC	336.	NC	NC
18.00	1487.	27.7	14.5	3558.	1.10	6.2	107.	ND	NC	342.	NC	NC
18.15	1504.	27.7	14.3	3525.	1.11	7.0	119.	ND	NC	346.	NC	NC
18.30	1519.	27.7	14.8	3645.	1.09	5.7	100.	ND	NC	349.	NC	NC
18.45	1544.	27.7	14.6	3599.	1.10	5.8	102.	ND	NC	355.	NC	NC
18.60	1502.	27.7	14.4	3535.	1.09	5.4	94.	ND	NC	345.	NC	NC
18.75	1480.	27.7	14.8	3635.	1.07	4.5	79.	ND	NC	340.	NC	NC
18.90	1466.	27.7	14.8	3636.	1.07	4.0	71.	ND	NC	337.	NC	NC
19.05	1474.	27.7	14.6	3582.	1.08	4.8	83.	ND	NC	339.	NC	NC
19.20	1475.	27.7	14.6	3589.	1.06	3.5	60.	ND	NC	339.	NC	NC
19.35	1465.	27.7	14.7	3609.	1.06	3.5	61.	ND	NC	337.	NC	NC
19.50	1455.	27.6	14.7	3619.	1.06	3.4	59.	ND	NC	335.	NC	NC
19.65	1458.	27.6	14.8	3632.	1.05	3.2	57.	ND	NC	335.	NC	NC
19.80	1432.	27.6	14.6	3599.	1.05	3.0	52.	ND	NC	329.	NC	NC
19.95	1441.	27.6	14.0	3449.	1.04	2.6	44.	ND	NC	331.	NC	NC
20.10	1393.	27.6	13.9	3425.	1.04	2.7	44.	ND	NC	320.	NC	NC
20.25	1394.	27.6	14.4	3537.	1.05	3.3	56.	ND	NC	321.	NC	NC
20.40	1400.	27.6	14.8	3630.	1.07	4.5	80.	ND	NC	322.	NC	NC
20.55	1407.	27.6	14.6	3582.	1.08	4.8	84.	ND	NC	324.	NC	NC
20.70	1429.	27.6	14.3	3523.	1.09	5.7	98.	ND	NC	329.	NC	NC
20.85	1468.	27.6	14.3	3518.	1.10	6.3	107.	ND	NC	338.	NC	NC
21.00	1478.	27.6	14.6	3590.	1.11	6.5	113.	ND	NC	340.	NC	NC
21.15	1493.	27.6	14.5	3559.	1.12	7.1	123.	ND	NC	343.	NC	NC
21.30	1511.	27.6	14.3	3443.	1.12	7.3	123.	ND	NC	347.	NC	NC
21.45	1536.	27.6	14.2	3492.	1.12	7.0	118.	ND	NC	353.	NC	NC
21.60	1532.	27.6	14.1	3463.	1.12	7.2	122.	ND	NC	352.	NC	NC
21.75	1510.	27.6	14.1	3474.	1.14	8.6	146.	ND	NC	347.	NC	NC
21.90	1484.	27.6	14.4	3551.	1.11	6.8	117.	ND	NC	341.	NC	NC
22.05	1481.	27.7	14.5	3571.	1.12	7.2	125.	ND	NC	341.	NC	NC
22.20	1485.	27.7	14.3	3522.	1.14	8.4	143.	ND	NC	342.	NC	NC
22.35	1488.	27.7	14.2	3485.	1.13	7.9	134.	ND	NC	342.	NC	NC

RUN NUMBER- 4
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1475.	27.7	14.4	3544.	1.11	6.6	114.	ND	NC	339.	NC	NC
22.65	1467.	27.8	14.4	3540.	1.11	6.9	118.	ND	NC	337.	NC	NC
22.80	1472.	27.8	14.3	3521.	1.12	7.4	127.	ND	NC	338.	NC	NC
22.95	1459.	27.8	14.8	3642.	1.11	6.9	122.	ND	NC	336.	NC	NC
23.10	1438.	27.9	14.8	3651.	1.08	5.0	89.	ND	NC	331.	NC	NC
23.25	1410.	27.9	14.6	3579.	1.06	3.8	66.	ND	NC	324.	NC	NC
23.40	1404.	27.9	14.2	3494.	1.05	3.3	56.	ND	NC	323.	NC	NC
23.55	1412.	27.9	14.3	3507.	1.05	3.1	53.	ND	NC	325.	NC	NC
23.70	1407.	28.0	14.5	3575.	1.11	6.4	111.	ND	NC	324.	NC	NC
23.85	1422.	28.0	14.3	3505.	1.13	7.8	133.	ND	NC	327.	NC	NC
24.00	1457.	28.0	14.0	3440.	1.11	6.4	107.	ND	NC	335.	NC	NC
24.15	1455.	28.0	14.3	3523.	1.10	6.1	104.	ND	NC	335.	NC	NC
24.30	1474.	28.1	14.5	3566.	1.12	7.0	121.	ND	NC	339.	NC	NC
24.45	1525.	28.1	14.3	3515.	1.12	7.4	126.	ND	NC	351.	NC	NC
24.60	1539.	28.1	14.5	3561.	1.10	5.8	100.	ND	NC	354.	NC	NC
24.75	1530.	28.2	14.5	3576.	1.11	6.4	111.	ND	NC	352.	NC	NC
24.90	1512.	28.2	14.5	3560.	1.11	6.9	119.	ND	NC	348.	NC	NC
25.05	1485.	28.2	14.4	3531.	1.11	6.4	110.	ND	NC	342.	NC	NC
25.20	1469.	28.2	14.6	3584.	1.10	5.8	101.	ND	NC	338.	NC	NC
25.35	1462.	28.3	14.7	3610.	1.10	6.0	105.	ND	NC	336.	NC	NC
25.50	1465.	28.3	14.4	3540.	1.09	5.4	93.	ND	NC	337.	NC	NC
25.65	1467.	28.3	14.3	3523.	1.08	4.7	81.	ND	NC	337.	NC	NC
25.80	1473.	28.3	14.4	3529.	1.09	5.5	94.	ND	NC	339.	NC	NC
25.95	1474.	28.4	14.4	3540.	1.09	5.5	95.	ND	NC	339.	NC	NC
26.10	1466.	28.3	14.2	3483.	1.10	6.0	102.	ND	NC	338.	NC	NC
26.25	1455.	28.3	14.2	3496.	1.11	6.4	109.	ND	NC	335.	NC	NC
26.40	1434.	28.3	14.4	3540.	1.11	6.5	111.	ND	NC	330.	NC	NC
26.55	1388.	28.2	14.4	3539.	1.11	6.9	119.	ND	NC	319.	NC	NC
26.70	1406.	28.2	14.1	3466.	1.12	7.4	124.	ND	NC	323.	NC	NC
26.85	1406.	28.2	13.8	3383.	1.13	7.8	128.	ND	NC	323.	NC	NC
27.00	1418.	28.2	14.0	3436.	1.14	8.5	141.	ND	NC	326.	NC	NC
27.15	1468.	28.1	14.3	3525.	1.16	9.5	162.	ND	NC	338.	NC	NC
27.30	1465.	28.1	14.3	3510.	1.14	8.5	145.	ND	NC	337.	NC	NC
27.45	1486.	28.1	14.2	3486.	1.15	9.2	155.	ND	NC	342.	NC	NC
27.60	1509.	28.1	14.1	3476.	1.18	10.6	179.	ND	NC	347.	NC	NC
27.75	1534.	28.0	14.4	3538.	1.18	10.7	184.	ND	NC	353.	NC	NC
27.90	1569.	28.0	14.3	3524.	1.17	10.5	180.	ND	NC	361.	NC	NC
28.05	1533.	28.0	14.0	3453.	1.19	11.6	195.	ND	NC	353.	NC	NC
28.20	1498.	27.9	13.9	3428.	1.19	11.6	193.	ND	NC	344.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1480.	27.9	14.1	3469.	1.17	10.1	171.	ND	NC	340.	NC	NC
28.50	1487.	27.9	13.8	3385.	1.17	10.1	165.	ND	NC	342.	NC	NC
28.65	1478.	27.9	13.8	3400.	1.18	10.8	179.	ND	NC	340.	NC	NC
28.80	1462.	27.8	14.0	3441.	1.16	9.5	159.	ND	NC	336.	NC	NC
28.95	1450.	27.8	14.1	3477.	1.15	9.1	153.	ND	NC	333.	NC	NC
29.10	1472.	27.8	14.2	3490.	1.15	9.2	155.	ND	NC	339.	NC	NC
29.25	1457.	27.8	14.2	3485.	1.14	8.6	146.	ND	NC	335.	NC	NC
29.40	1439.	27.7	14.2	3491.	1.12	7.1	121.	ND	NC	331.	NC	NC
29.55	1423.	27.7	14.2	3483.	1.10	6.0	102.	ND	NC	327.	NC	NC
29.70	1418.	27.7	14.2	3492.	1.11	6.4	108.	ND	NC	326.	NC	NC
29.85	1414.	27.7	14.4	3553.	1.13	8.0	137.	ND	NC	325.	NC	NC
30.00	1417.	27.6	14.4	3532.	1.17	10.1	173.	ND	NC	326.	NC	NC
30.15	1427.	27.7	14.1	3461.	1.15	9.2	155.	ND	NC	328.	NC	NC
30.30	1432.	27.7	13.7	3371.	1.16	9.4	154.	ND	NC	329.	NC	NC
30.45	1479.	27.7	13.9	3407.	1.18	11.0	183.	ND	NC	340.	NC	NC
30.60	1489.	27.7	14.1	3474.	1.17	10.2	171.	ND	NC	342.	NC	NC
30.75	1510.	27.8	14.2	3481.	1.17	10.6	179.	ND	NC	347.	NC	NC
30.90	1516.	27.8	14.0	3453.	1.19	11.7	197.	ND	NC	349.	NC	NC
31.05	1522.	27.8	14.3	3511.	1.18	10.6	181.	ND	NC	351.	NC	NC
31.20	1529.	27.8	14.3	3528.	1.18	10.7	184.	ND	NC	352.	NC	NC
31.35	1514.	27.8	14.2	3483.	1.20	12.3	208.	ND	NC	348.	NC	NC
31.50	1489.	27.9	14.1	3479.	1.18	10.7	181.	ND	NC	342.	NC	NC
31.65	1472.	27.9	14.0	3454.	1.17	10.2	170.	ND	NC	339.	NC	NC
31.80	1474.	27.9	13.6	3334.	1.18	10.9	177.	ND	NC	339.	NC	NC
31.95	1476.	27.9	14.2	3493.	1.17	10.6	179.	ND	NC	339.	NC	NC
32.10	1456.	28.0	14.4	3537.	1.15	9.2	158.	ND	NC	335.	NC	NC
32.25	1462.	28.0	14.0	3439.	1.13	8.1	135.	ND	NC	336.	NC	NC
32.40	1471.	28.0	14.0	3438.	1.16	10.0	166.	ND	NC	338.	NC	NC
32.55	1465.	28.0	14.3	3525.	1.17	10.2	175.	ND	NC	337.	NC	NC
32.70	1437.	28.1	14.0	3447.	1.14	8.7	145.	ND	NC	331.	NC	NC
32.85	1413.	28.1	13.9	3415.	1.14	8.7	144.	ND	NC	325.	NC	NC
33.00	1410.	28.1	13.8	3401.	1.17	10.4	172.	ND	NC	324.	NC	NC
33.15	1423.	28.1	13.9	3411.	1.18	10.9	181.	ND	NC	327.	NC	NC
33.30	1419.	28.1	13.9	3429.	1.18	10.8	179.	ND	NC	326.	NC	NC
33.45	1432.	28.2	13.8	3382.	1.20	12.1	199.	ND	NC	329.	NC	NC
33.60	1472.	28.2	13.9	3421.	1.21	12.8	212.	ND	NC	339.	NC	NC
33.75	1493.	28.2	14.3	3514.	1.18	10.6	181.	ND	NC	343.	NC	NC
33.90	1503.	28.2	14.0	3451.	1.23	14.1	237.	ND	NC	346.	NC	NC
34.05	1529.	28.3	13.9	3430.	1.29	17.4	290.	ND	NC	352.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1565.	28.3	14.0	3454.	1.22	13.3	223.	ND	NC	360.	NC	NC
34.35	1551.	28.3	13.9	3424.	1.23	14.0	232.	ND	NC	357.	NC	NC
34.5	1522.	28.3	13.7	3378.	1.29	17.5	286.	ND	NC	350.	NC	NC
34.65	1484.	28.4	14.1	3465.	1.27	16.5	277.	ND	NC	341.	NC	NC
34.80	1485.	28.4	13.7	3377.	1.25	14.9	244.	ND	NC	342.	NC	NC
34.95	1487.	28.4	13.3	3282.	1.27	16.3	259.	ND	NC	342.	NC	NC
35.10	1486.	28.4	13.8	3384.	1.29	17.8	293.	ND	NC	342.	NC	NC
35.25	1483.	28.4	14.2	3490.	1.14	8.5	144.	ND	NC	341.	NC	NC
35.40	1466.	28.5	13.4	3286.	1.18	10.8	172.	ND	NC	337.	NC	NC
35.55	1451.	28.4	13.4	3304.	1.09	5.6	89.	ND	NC	334.	NC	NC
35.70	1454.	28.4	13.1	3225.	1.06	3.8	60.	ND	NC	334.	NC	NC
35.85	1453.	28.3	12.8	3138.	1.02	1.0	16.	ND	NC	334.	NC	NC
36.00	1418.	28.2	13.6	3350.	1.10	6.1	99.	ND	NC	326.	NC	NC
36.15	1407.	28.2	14.0	3450.	1.19	11.4	191.	ND	NC	324.	NC	NC
36.30	1414.	28.1	14.4	3548.	1.15	8.8	152.	ND	NC	325.	NC	NC
36.45	1424.	28.0	14.5	3577.	1.03	2.0	35.	ND	NC	328.	NC	NC
36.60	1456.	27.9	14.1	3469.	1.11	6.4	108.	ND	NC	335.	NC	NC
36.75	1481.	27.9	14.1	3458.	1.17	10.1	170.	ND	NC	341.	NC	NC
36.90	1492.	27.8	14.2	3494.	1.09	5.5	93.	ND	NC	343.	NC	NC
37.05	1506.	27.7	14.4	3533.	1.09	5.5	95.	ND	NC	346.	NC	NC
37.20	1544.	27.7	14.2	3495.	1.20	12.4	210.	ND	NC	355.	NC	NC
37.35	1573.	27.6	14.2	3486.	1.17	10.2	173.	ND	NC	362.	NC	NC
37.50	1547.	27.5	14.2	3497.	1.16	9.5	161.	ND	NC	356.	NC	NC
37.65	1525.	27.5	14.1	3478.	1.20	12.1	205.	ND	NC	351.	NC	NC
37.80	1491.	27.4	14.2	3499.	1.20	11.9	203.	ND	NC	343.	NC	NC
37.95	1487.	27.3	14.4	3532.	1.14	8.3	142.	ND	NC	342.	NC	NC
38.10	1480.	27.2	14.3	3513.	1.15	8.9	152.	ND	NC	340.	NC	NC
38.25	1475.	27.2	13.7	3380.	1.19	11.5	189.	ND	NC	339.	NC	NC
38.40	1473.	27.1	13.8	3393.	1.15	9.1	150.	ND	NC	339.	NC	NC
38.55	1472.	27.0	14.0	3440.	1.11	6.6	110.	ND	NC	339.	NC	NC
38.70	1471.	27.0	14.0	3433.	1.13	7.9	131.	ND	NC	338.	NC	NC
38.85	1464.	26.9	14.0	3433.	1.13	8.1	135.	ND	NC	337.	NC	NC
39.00	1422.	26.8	14.2	3488.	1.12	7.2	121.	ND	NC	327.	NC	NC
39.15	1412.	26.8	14.0	3448.	1.10	6.3	106.	ND	NC	325.	NC	NC
39.30	1422.	26.7	13.7	3379.	1.14	8.2	135.	ND	NC	327.	NC	NC
39.45	1414.	26.6	14.1	3458.	1.18	11.0	184.	ND	NC	325.	NC	NC
39.60	1423.	26.5	14.0	3440.	1.15	9.0	151.	ND	NC	327.	NC	NC
39.75	1448.	26.5	14.0	3438.	1.15	9.1	152.	ND	NC	333.	NC	NC
39.9	1476.	26.4	13.9	3418.	1.20	12.4	206.	ND	NC	339.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1493.	26.3	13.8	3397.	1.18	11.1	184.	ND	NC	343.	NC	NC
40.20	1496.	26.3	13.8	3400.	1.17	10.5	173.	ND	NC	344.	NC	NC
40.35	1515.	26.4	13.4	3303.	1.21	12.9	206.	ND	NC	348.	NC	NC
40.50	1543.	26.4	14.0	3453.	1.26	15.5	259.	ND	NC	355.	NC	NC
40.65	1568.	26.5	13.7	3380.	1.24	14.3	235.	ND	NC	361.	NC	NC
40.80	1514.	26.6	12.7	3115.	1.18	10.6	161.	ND	NC	348.	NC	NC
40.95	1513.	26.7	11.5	2830.	1.22	13.1	189.	ND	NC	348.	NC	NC
41.10	1523.	26.8	11.8	2891.	1.04	2.3	32.	ND	NC	350.	NC	NC
41.25	1499.	26.9	12.8	3160.	1.07	4.5	70.	ND	NC	345.	NC	NC
41.40	1477.	27.0	13.9	3428.	1.14	8.5	142.	ND	NC	343.	NC	NC
41.55	1481.	27.0	14.2	3486.	1.14	8.5	145.	ND	NC	341.	NC	NC
41.70	1462.	27.1	14.1	3470.	1.11	6.9	116.	ND	NC	336.	NC	NC
41.85	1462.	27.2	14.1	3473.	1.11	6.5	110.	ND	NC	336.	NC	NC
42.00	1441.	27.3	13.9	3408.	1.14	8.3	138.	ND	NC	331.	NC	NC
42.15	1443.	27.4	13.5	3332.	1.12	7.5	121.	ND	NC	332.	NC	NC
42.30	1423.	27.5	13.9	3422.	1.09	5.6	93.	ND	NC	327.	NC	NC
42.45	1404.	27.6	14.2	3487.	1.08	4.5	77.	ND	NC	323.	NC	NC
42.60	1412.	27.6	14.0	3445.	1.12	7.5	126.	ND	NC	325.	NC	NC
42.75	1443.	27.7	14.0	3434.	1.09	5.2	87.	ND	NC	332.	NC	NC
42.90	1447.	27.8	14.2	3488.	1.07	4.4	75.	ND	NC	333.	NC	NC
43.05	1450.	27.9	14.0	3454.	1.10	5.8	97.	ND	NC	333.	NC	NC
43.20	1485.	27.9	13.7	3371.	1.10	6.2	102.	ND	NC	342.	NC	NC
43.35	1513.	27.9	14.3	3520.	1.07	4.4	76.	ND	NC	348.	NC	NC
43.50	1531.	27.9	14.5	3567.	1.07	4.0	70.	ND	NC	352.	NC	NC
43.65	1575.	27.9	14.0	3436.	1.10	6.1	102.	ND	NC	362.	NC	NC
43.80	1604.	27.9	13.8	3398.	1.08	4.7	77.	ND	NC	369.	NC	NC
43.95	1535.	27.9	14.4	3548.	1.07	4.2	72.	ND	NC	353.	NC	NC
44.10	1484.	27.9	14.2	3499.	1.09	5.2	89.	ND	NC	341.	NC	NC
44.25	1480.	27.9	14.0	3446.	1.07	4.1	69.	ND	NC	340.	NC	NC
44.40	1481.	27.9	14.0	3432.	1.06	3.6	60.	ND	NC	341.	NC	NC
44.55	1467.	27.9	14.1	3463.	1.06	3.7	63.	ND	NC	337.	NC	NC
44.70	1479.	27.9	14.0	3454.	1.06	3.6	60.	ND	NC	340.	NC	NC
44.85	1461.	27.9	13.9	3421.	1.05	3.1	52.	ND	NC	336.	NC	NC
45.00	1458.	27.9	14.2	3495.	1.05	2.9	50.	ND	NC	335.	NC	NC
45.15	1450.	27.9	14.3	3517.	1.05	3.1	53.	ND	NC	334.	NC	NC
45.30	1437.	27.9	14.2	3486.	1.06	3.7	63.	ND	NC	331.	NC	NC
45.45	1423.	27.9	14.1	3463.	1.07	4.0	68.	ND	NC	327.	NC	NC
45.60	1399.	27.9	14.0	3454.	1.06	3.9	65.	ND	NC	322.	NC	NC
45.75	1388.	27.9	14.0	3436.	1.08	4.6	77.	ND	NC	319.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1449.	27.9	13.8	3388.	1.09	5.3	87.	ND	NC	333.	NC	NC
46.05	1442.	27.9	14.3	3520.	1.08	4.9	84.	ND	NC	332.	NC	NC
46.20	1457.	27.9	14.3	3511.	1.09	5.6	96.	ND	NC	335.	NC	NC
46.35	1512.	27.9	13.7	3359.	1.11	6.8	111.	ND	NC	348.	NC	NC
46.50	1510.	27.9	13.9	3406.	1.10	5.8	95.	ND	NC	347.	NC	NC
46.65	1505.	27.9	14.4	3553.	1.09	5.3	91.	ND	NC	346.	NC	NC
46.80	1543.	27.9	13.8	3395.	1.13	8.0	131.	ND	NC	355.	NC	NC
46.95	1585.	27.9	13.9	3416.	1.09	5.7	94.	ND	NC	364.	NC	NC
47.10	1535.	27.9	14.3	3520.	1.09	5.2	89.	ND	NC	353.	NC	NC
47.25	1480.	27.9	14.4	3546.	1.11	6.8	117.	ND	NC	340.	NC	NC
47.40	1477.	27.9	14.0	3455.	1.12	7.1	119.	ND	NC	340.	NC	NC
47.55	1468.	27.9	14.2	3481.	1.09	5.6	94.	ND	NC	338.	NC	NC
47.70	1465.	27.9	14.3	3527.	1.09	5.4	92.	ND	NC	337.	NC	NC
47.85	1477.	27.9	14.1	3458.	1.11	6.6	111.	ND	NC	340.	NC	NC
48.00	1466.	27.9	14.1	3469.	1.10	5.9	99.	ND	NC	337.	NC	NC
48.15	1447.	27.9	14.4	3546.	1.08	4.7	81.	ND	NC	333.	NC	NC
48.30	1425.	27.9	14.2	3490.	1.07	4.2	71.	ND	NC	328.	NC	NC
48.45	1415.	27.9	14.0	3431.	1.06	3.9	65.	ND	NC	326.	NC	NC
48.60	1411.	27.9	13.7	3376.	1.06	3.5	57.	ND	NC	325.	NC	NC
48.75	1390.	27.9	14.4	3549.	1.05	2.8	49.	ND	NC	320.	NC	NC
48.90	1382.	27.9	14.3	3514.	1.05	3.3	57.	ND	NC	318.	NC	NC
49.05	1429.	27.9	13.9	3426.	1.07	3.9	66.	ND	NC	329.	NC	NC
49.20	1435.	27.9	14.2	3495.	1.05	3.1	53.	ND	NC	330.	NC	NC
49.35	1446.	27.9	14.5	3572.	1.04	2.6	46.	ND	NC	331.	NC	NC
49.50	1491.	27.9	13.9	3426.	1.07	4.1	68.	ND	NC	343.	NC	NC
49.65	1498.	27.9	14.0	3439.	1.07	4.2	71.	ND	NC	344.	NC	NC
49.80	1494.	27.9	14.1	3464.	1.07	4.3	72.	ND	NC	344.	NC	NC
49.95	1511.	27.9	14.2	3503.	1.10	6.1	103.	ND	NC	347.	NC	NC
50.10	1591.	27.9	13.5	3321.	1.11	6.8	109.	ND	NC	366.	NC	NC
50.25	1526.	27.9	13.8	3404.	1.10	6.1	101.	ND	NC	351.	NC	NC
50.40	1489.	27.9	14.1	3465.	1.11	6.6	112.	ND	NC	343.	NC	NC
50.55	1477.	27.9	14.0	3444.	1.15	8.8	148.	ND	NC	340.	NC	NC
50.70	1483.	27.9	13.8	3406.	1.12	7.5	124.	ND	NC	341.	NC	NC
50.85	1479.	27.9	14.0	3441.	1.13	7.6	127.	ND	NC	340.	NC	NC
51.00	1466.	27.9	14.1	3475.	1.14	8.2	139.	ND	NC	337.	NC	NC
51.15	1461.	27.9	13.9	3427.	1.13	7.9	132.	ND	NC	336.	NC	NC
51.30	1450.	28.0	13.8	3400.	1.12	7.3	121.	ND	NC	334.	NC	NC
51.45	1452.	28.0	14.2	3489.	1.10	6.3	107.	ND	NC	334.	NC	NC
51.60	1411.	28.0	14.0	3444.	1.10	6.1	102.	ND	NC	325.	NC	NC

RUN NUMBER- 40
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1418.	28.0	13.9	3409.	1.10	6.3	104.	ND	NC	326.	NC	NC
51.90	1400.	28.0	13.9	3424.	1.09	5.5	92.	ND	NC	322.	NC	NC
52.05	1385.	28.0	14.2	3493.	1.10	5.8	98.	ND	NC	319.	NC	NC
52.20	1432.	28.0	13.7	3370.	1.13	7.8	127.	ND	NC	329.	NC	NC
52.35	1453.	28.0	13.5	3319.	1.11	6.4	104.	ND	NC	334.	NC	NC
52.50	1466.	28.0	14.1	3471.	1.09	5.3	89.	ND	NC	337.	NC	NC
52.65	1490.	28.0	14.1	3473.	1.14	8.2	138.	ND	NC	343.	NC	NC
52.80	1516.	28.0	13.8	3395.	1.12	7.5	124.	ND	NC	349.	NC	NC
52.95	1514.	28.0	14.1	3461.	1.09	5.5	92.	ND	NC	348.	NC	NC
53.10	1531.	28.0	14.4	3540.	1.08	5.0	87.	ND	NC	352.	NC	NC
53.25	1557.	28.0	14.1	3456.	1.11	6.8	114.	ND	NC	358.	NC	NC
53.40	1506.	28.0	13.9	3420.	1.07	4.3	71.	ND	NC	346.	NC	NC
53.55	1478.	28.0	14.1	3471.	1.08	4.8	82.	ND	NC	340.	NC	NC
53.70	1469.	28.0	13.9	3421.	1.13	7.6	126.	ND	NC	338.	NC	NC
53.85	1466.	28.1	13.8	3388.	1.11	6.5	106.	ND	NC	337.	NC	NC
54.00	1476.	28.1	14.0	3448.	1.09	5.5	91.	ND	NC	339.	NC	NC
54.15	1463.	28.1	14.3	3507.	1.09	5.7	97.	ND	NC	337.	NC	NC
54.30	1451.	28.1	13.8	3382.	1.10	5.8	96.	ND	NC	334.	NC	NC
54.45	1441.	28.1	13.6	3335.	1.09	5.5	89.	ND	NC	331.	NC	NC
54.60	1434.	28.1	13.8	3393.	1.09	5.3	88.	ND	NC	330.	NC	NC
54.75	1419.	28.1	14.1	3470.	1.07	4.5	77.	ND	NC	326.	NC	NC
54.90	1396.	28.0	13.6	3354.	1.08	4.9	80.	ND	NC	321.	NC	NC
55.05	1424.	28.0	13.7	3379.	1.09	5.5	90.	ND	NC	328.	NC	NC
55.20	1385.	28.0	14.1	3459.	1.08	4.9	82.	ND	NC	319.	NC	NC
55.35	1389.	27.9	14.3	3519.	1.08	4.7	81.	ND	NC	319.	NC	NC
55.50	1429.	27.9	13.7	3378.	1.09	5.6	91.	ND	NC	329.	NC	NC
55.65	1429.	27.9	14.1	3456.	1.08	5.1	85.	ND	NC	329.	NC	NC
55.80	1434.	27.8	14.1	3476.	1.07	4.5	75.	ND	NC	330.	NC	NC
55.95	1449.	27.8	13.9	3430.	1.08	5.1	85.	ND	NC	333.	NC	NC
56.10	1516.	27.7	14.0	3454.	1.09	5.6	94.	ND	NC	349.	NC	NC
56.25	1522.	27.7	14.2	3492.	1.07	4.0	68.	ND	NC	350.	NC	NC
56.40	1534.	27.7	13.9	3423.	1.07	4.3	72.	ND	NC	353.	NC	NC
56.55	1542.	27.6	13.8	3399.	1.08	4.6	76.	ND	NC	355.	NC	NC
56.70	1485.	27.6	14.1	3462.	1.07	4.4	75.	ND	NC	342.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 10 4 78
RUN NUMBER- 41
SEGMENT NUMBER- 1
WATER DEPTH- 25 TO 30 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	581.	26.0	7.5	1848.	1.24	14.3	576.	15.1	35.6	134.	17.	0.13
0.15	590.	25.4	7.3	1785.	1.30	17.9	697.	14.9	35.2	136.	16.	0.12
0.30	599.	24.1	7.0	1722.	1.36	20.9	787.	14.8	34.8	138.	15.	0.11
0.45	661.	23.9	7.3	1789.	1.20	11.7	458.	14.5	34.2	152.	16.	0.10
0.60	776.	25.4	7.7	1899.	1.20	11.7	486.	14.3	33.9	178.	16.	0.09
0.75	920.	27.3	8.1	2001.	1.33	19.4	850.	17.3	40.9	212.	21.	0.10
0.90	986.	28.6	8.9	2190.	1.27	15.8	756.	15.0	35.8	227.	20.	0.09
1.05	1020.	28.0	9.3	2282.	1.29	17.2	857.	15.5	37.0	235.	22.	0.09
1.20	1001.	23.7	8.4	2072.	1.36	21.0	950.	5.9	14.7	230.	8.	0.03
1.35	946.	23.7	7.9	1949.	1.36	20.9	890.	3.9	10.0	218.	5.	0.02
1.50	927.	23.1	8.7	2148.	1.31	18.2	855.	3.9	10.2	213.	6.	0.03
1.65	890.	23.6	8.3	2046.	1.28	16.7	745.	3.9	10.0	205.	5.	0.03
1.80	901.	24.3	6.9	1701.	1.38	22.3	829.	3.8	9.6	207.	4.	0.02
1.95	890.	23.9	7.9	1931.	1.36	21.5	905.	3.8	9.7	205.	5.	0.02
2.10	881.	24.2	8.1	1991.	1.28	16.5	719.	3.7	9.7	202.	5.	0.02
2.25	878.	24.9	7.3	1800.	1.32	18.9	742.	3.7	9.4	202.	4.	0.02
2.40	874.	23.9	7.0	1725.	1.36	21.3	805.	3.7	9.2	201.	4.	0.02
2.55	854.	23.6	8.1	2003.	1.31	18.1	790.	3.6	9.4	196.	5.	0.03
2.70	899.	24.4	7.9	1947.	1.29	17.3	734.	3.6	9.3	207.	5.	0.02
2.85	894.	24.4	7.2	1768.	1.33	19.7	759.	3.6	9.0	206.	4.	0.02
3.00	922.	23.7	7.3	1794.	1.37	21.5	842.	3.6	9.0	212.	4.	0.02
3.15	959.	23.7	8.3	2029.	1.28	16.6	735.	3.6	9.3	220.	5.	0.02
3.30	1025.	23.9	8.2	2009.	1.31	18.4	807.	3.6	9.4	236.	5.	0.02
3.45	1105.	24.1	7.9	1939.	1.36	21.2	899.	3.6	9.3	254.	5.	0.02
3.60	1192.	24.5	8.9	2197.	1.30	17.7	849.	3.6	9.7	274.	6.	0.02
3.75	1137.	24.2	10.0	2452.	1.27	16.2	866.	3.7	10.0	262.	6.	0.02
3.90	1108.	24.3	9.6	2373.	1.31	18.3	949.	3.7	9.9	255.	6.	0.02
4.05	1106.	24.3	9.4	2313.	1.32	18.6	942.	3.6	9.7	254.	6.	0.02
4.20	1106.	23.0	10.5	2592.	1.27	15.7	890.	3.6	10.0	254.	7.	0.03
4.35	1100.	22.9	11.2	2763.	1.22	12.9	780.	3.6	10.2	253.	7.	0.03
4.50	1093.	23.1	10.0	2463.	1.29	17.3	931.	3.6	9.8	251.	6.	0.03
4.65	1075.	22.2	10.6	2603.	1.30	17.8	1014.	3.5	9.9	247.	7.	0.03
4.80	1063.	22.2	10.8	2655.	1.21	12.6	733.	3.5	9.9	245.	7.	0.03

RUN NUMBER- 41
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	1069.	22.5	10.6	2614.	1.24	14.0	797.	3.4	9.7	246.	7.	0.03
5.10	1072.	22.9	10.1	2494.	1.31	18.1	984.	3.4	9.4	247.	6.	0.03
5.25	1006.	22.0	9.8	2417.	1.26	15.5	820.	3.3	9.2	231.	6.	0.03
5.40	816.	21.7	9.8	2402.	1.23	13.5	708.	3.4	9.2	188.	6.	0.03
5.55	708.	19.0	9.5	2335.	1.26	15.2	773.	3.5	9.4	163.	6.	0.04
5.70	676.	16.4	8.0	1962.	1.31	18.5	794.	3.6	9.3	155.	5.	0.03
5.85	671.	16.7	9.4	2317.	1.26	15.1	766.	3.9	10.5	154.	6.	0.04
6.00	667.	16.7	10.5	2570.	1.20	11.8	662.	5.1	13.4	153.	9.	0.06
6.15	652.	16.2	10.9	2688.	1.21	12.3	720.	5.7	15.1	150.	10.	0.07
6.30	623.	15.3	11.0	2709.	1.16	9.7	572.	4.9	13.3	143.	9.	0.06
6.45	620.	14.7	11.1	2729.	1.11	6.4	380.	4.7	12.7	143.	9.	0.06
6.60	634.	14.8	12.1	2964.	1.10	5.8	375.	4.6	12.9	146.	10.	0.07
6.75	630.	15.0	12.8	3155.	1.08	4.8	332.	4.6	13.1	145.	11.	0.07
6.90	608.	15.3	12.6	3108.	1.06	3.6	242.	4.5	12.9	140.	10.	0.07
7.05	618.	14.9	12.5	3069.	1.04	2.6	176.	4.4	12.7	142.	10.	0.07
7.20	622.	14.8	13.0	3201.	1.04	2.3	160.	4.4	12.8	143.	10.	0.07
7.35	613.	14.8	13.0	3209.	1.04	2.1	149.	4.3	12.6	141.	10.	0.07
7.50	618.	14.8	12.4	3042.	1.04	2.1	140.	4.3	12.2	142.	9.	0.07
7.65	642.	14.6	12.0	2947.	1.03	2.1	133.	4.2	11.9	148.	9.	0.06
7.80	643.	14.2	12.6	3106.	1.03	1.5	104.	4.1	11.9	148.	9.	0.06
7.95	657.	14.0	12.7	3116.	1.02	1.1	76.	4.0	11.7	151.	9.	0.06
8.10	674.	14.3	12.1	2980.	1.02	1.1	70.	3.9	11.3	155.	9.	0.06
8.25	673.	14.4	12.8	3136.	1.02	1.2	85.	3.8	11.3	155.	9.	0.06
8.40	666.	14.2	13.1	3230.	1.02	1.4	102.	3.7	11.3	153.	9.	0.06
8.55	652.	14.1	12.9	3172.	1.02	1.2	86.	3.6	11.0	150.	9.	0.06
8.70	639.	14.2	12.7	3125.	1.02	1.3	87.	3.6	10.7	147.	8.	0.06
8.85	633.	14.3	13.4	3289.	1.02	1.0	74.	3.5	10.9	146.	9.	0.06
9.00	626.	14.2	14.0	3435.	1.01	0.4	33.	3.5	11.1	144.	10.	0.07
9.15	617.	15.0	12.3	3032.	1.01	0.4	26.	3.5	10.4	142.	8.	0.06
9.30	637.	15.1	13.1	3220.	1.01	0.3	23.	3.5	10.6	146.	9.	0.06
9.45	627.	14.3	12.8	3144.	1.00	0.	0.	3.4	10.5	144.	8.	0.06
9.60	628.	14.8	10.4	2568.	1.00	0.	0.	3.4	9.6	144.	6.	0.04
9.75	645.	14.7	11.5	2825.	1.00	0.	0.	3.5	10.2	148.	7.	0.05
9.90	493.	13.7	12.2	2988.	1.00	0.	0.	3.8	11.0	113.	8.	0.07
10.05	408.	12.9	8.5	2097.	1.00	0.	0.	4.1	10.5	94.	6.	0.06
10.20	435.	12.1	7.8	1910.	1.00	0.	0.	4.3	10.9	100.	5.	0.05
10.35	457.	11.4	9.5	2325.	1.01	0.4	20.	4.6	12.0	105.	7.	0.07
10.50	457.	11.1	10.9	2677.	1.01	0.6	34.	4.7	12.7	105.	9.	0.08
10.65	456.	11.1	10.7	2640.	1.01	0.9	51.	4.7	12.6	105.	8.	0.08

RUN NUMBER- 41
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	457.	11.6	10.4	2546.	1.02	1.1	60.	4.6	12.4	105.	8.	0.08
10.95	463.	11.8	11.0	2715.	1.02	1.3	77.	4.6	12.5	106.	9.	0.08
11.10	444.	11.3	11.5	2834.	1.03	1.5	92.	4.7	12.8	102.	9.	0.09
11.25	413.	11.8	10.9	2670.	1.02	1.3	76.	4.7	12.7	95.	9.	0.09
11.40	414.	12.4	10.8	2668.	1.02	1.1	67.	3.9	10.9	95.	7.	0.08
11.55	419.	12.7	11.3	2784.	1.02	1.0	63.	3.8	10.8	96.	8.	0.08
11.70	403.	13.1	11.3	2776.	1.02	1.1	70.	3.7	10.6	93.	7.	0.08
11.85	407.	13.5	10.9	2683.	1.02	1.3	76.	3.8	10.5	94.	7.	0.08
12.00	421.	14.3	11.0	2693.	1.02	1.3	79.	3.8	10.6	97.	7.	0.07
12.15	416.	15.0	11.0	2714.	1.02	1.1	66.	3.8	10.7	96.	7.	0.08
12.30	414.	14.9	10.8	2664.	1.02	1.0	59.	3.8	10.6	95.	7.	0.08
12.45	423.	14.0	10.1	2485.	1.02	1.3	56.	4.1	11.0	97.	7.	0.07
12.60	515.	14.4	10.8	2668.	1.02	1.3	74.	4.4	11.9	118.	8.	0.07
12.75	604.	15.9	11.3	2779.	1.02	0.9	55.	4.7	12.8	139.	9.	0.06
12.90	649.	17.4	10.8	2656.	1.02	1.1	62.	5.3	14.1	149.	10.	0.06
13.05	673.	16.6	11.1	2722.	1.03	1.5	88.	6.2	16.2	155.	11.	0.07
13.20	681.	16.3	12.1	2972.	1.02	1.4	91.	6.7	17.8	157.	13.	0.09
13.35	678.	16.9	11.7	2880.	1.02	1.1	67.	6.8	17.8	156.	13.	0.08
13.50	680.	17.1	11.5	2840.	1.02	1.0	60.	7.8	20.0	156.	14.	0.09
13.65	678.	16.5	12.1	2964.	1.02	1.2	75.	8.0	20.8	156.	16.	0.10
13.80	663.	16.7	11.5	2822.	1.03	1.8	112.	6.5	17.0	153.	12.	0.08
13.95	621.	18.7	10.9	2685.	1.05	3.1	182.	5.6	14.7	143.	10.	0.07
14.10	644.	20.9	11.1	2730.	1.06	3.4	205.	5.7	15.0	148.	10.	0.07
14.25	649.	21.3	11.4	2814.	1.06	3.3	205.	4.2	11.7	149.	8.	0.06
14.40	644.	20.9	11.4	2814.	1.03	1.8	111.	4.7	12.8	148.	9.	0.06
14.55	650.	19.2	10.8	2666.	1.05	3.1	179.	14.1	34.3	150.	23.	0.16
14.70	651.	18.3	10.8	2660.	1.09	5.4	312.	17.1	41.3	150.	28.	0.19
14.85	641.	17.9	11.3	2769.	1.04	2.5	150.	17.4	42.2	147.	30.	0.20
15.00	642.	17.1	10.8	2663.	1.04	2.5	143.	17.4	42.1	148.	28.	0.19
15.15	661.	17.0	10.4	2559.	1.07	4.0	226.	19.8	47.4	152.	31.	0.20
15.30	673.	17.0	11.1	2726.	1.07	3.9	230.	22.9	54.7	155.	38.	0.24
15.45	680.	17.7	11.3	2777.	1.04	2.6	155.	25.6	60.9	156.	43.	0.27
15.60	692.	18.1	9.7	2390.	1.08	4.8	250.	25.4	60.1	159.	36.	0.23
15.75	707.	17.7	10.3	2535.	1.11	6.6	364.	24.9	59.1	163.	38.	0.23
15.90	704.	17.4	10.9	2688.	1.07	4.3	250.	25.6	60.9	162.	41.	0.26
16.05	680.	17.6	10.0	2449.	1.09	5.5	293.	27.3	64.5	156.	40.	0.26
16.20	656.	17.5	10.2	2513.	1.11	6.3	343.	25.8	61.2	151.	39.	0.26
16.35	651.	17.2	10.8	2648.	1.10	5.8	338.	25.4	60.3	150.	41.	0.27
16.50	643.	17.1	11.5	2818.	1.08	4.9	304.	27.4	65.2	148.	47.	0.31

RUN NUMBER- 41
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	637.	16.7	10.3	2537.	1.13	7.4	412.	27.9	66.0	147.	42.	0.29
16.80	645.	16.9	10.1	2491.	1.10	5.8	316.	27.2	64.4	148.	41.	0.27
16.95	642.	17.1	10.7	2629.	1.07	4.2	241.	29.5	69.7	148.	46.	0.31
17.10	638.	17.3	10.3	2526.	1.04	2.6	142.	31.2	73.6	147.	47.	0.32
17.25	638.	17.1	9.4	2305.	1.20	11.8	592.	31.7	74.5	147.	44.	0.30
17.40	632.	17.2	9.8	2419.	1.26	15.5	817.	30.9	72.7	145.	45.	0.31
17.55	629.	17.3	10.4	2564.	1.06	3.5	195.	30.6	72.3	145.	47.	0.32
17.70	644.	17.1	10.1	2472.	1.11	6.7	362.	32.1	75.6	148.	47.	0.32
17.85	672.	16.6	9.1	2245.	1.20	11.6	569.	32.8	77.0	155.	44.	0.28
18.00	688.	17.2	10.5	2578.	1.12	6.9	389.	33.0	77.7	158.	51.	0.32
18.15	672.	17.2	11.2	2762.	1.10	5.6	339.	33.9	80.1	155.	56.	0.36
18.30	688.	17.2	9.4	2309.	1.14	8.5	429.	35.6	83.5	158.	49.	0.31
18.45	699.	16.6	10.1	2477.	1.19	11.2	605.	34.7	81.5	161.	51.	0.32
18.60	682.	16.6	11.2	2760.	1.15	8.7	526.	36.9	87.0	157.	61.	0.39
18.75	631.	17.0	10.4	2547.	1.10	6.1	340.	38.7	91.0	145.	59.	0.40
18.90	644.	17.2	10.0	2449.	1.14	8.2	438.	40.0	93.7	148.	58.	0.39
19.05	648.	17.0	10.5	2580.	1.14	8.1	455.	40.7	95.6	149.	62.	0.42
19.20	640.	16.8	10.7	2629.	1.12	7.0	404.	39.5	93.0	147.	62.	0.42
19.35	630.	17.1	10.0	2450.	1.09	5.4	287.	40.2	94.3	145.	58.	0.40
19.50	652.	17.3	10.2	2497.	1.17	10.0	548.	42.6	100.0	150.	63.	0.42
19.65	634.	17.4	10.3	2536.	1.16	9.4	522.	43.3	101.5	146.	65.	0.45
19.80	615.	17.2	10.3	2530.	1.04	2.3	129.	42.8	100.3	142.	64.	0.45
19.95	619.	17.3	9.1	2237.	1.14	8.0	393.	43.6	101.9	142.	58.	0.41
20.10	641.	17.5	9.4	2321.	1.24	14.0	710.	45.9	107.3	147.	63.	0.43
20.25	647.	17.4	9.9	2443.	1.13	7.8	416.	46.4	108.7	149.	67.	0.45
20.40	652.	17.3	9.6	2352.	1.16	9.2	472.	44.5	104.0	150.	62.	0.41
20.55	669.	17.8	8.5	2081.	1.22	13.1	596.	46.5	108.4	154.	57.	0.37
20.70	695.	17.6	8.7	2142.	1.16	9.6	451.	48.6	113.4	160.	62.	0.38
20.85	687.	17.6	9.4	2321.	1.13	7.9	402.	49.0	114.5	158.	67.	0.43
21.00	698.	17.8	8.8	2160.	1.15	8.7	409.	48.0	111.9	160.	61.	0.38
21.15	680.	17.6	8.9	2197.	1.17	9.7	466.	45.7	106.6	156.	59.	0.38
21.30	651.	17.2	9.6	2354.	1.16	9.6	491.	43.5	101.8	150.	61.	0.41
21.45	613.	17.4	9.2	2270.	1.15	8.8	437.	42.1	98.4	141.	57.	0.40
21.60	612.	17.6	9.3	2280.	1.14	8.1	401.	37.4	87.6	141.	51.	0.36
21.75	634.	17.4	9.3	2284.	1.21	12.3	611.	39.9	93.5	146.	54.	0.37
21.90	622.	16.9	9.4	2319.	1.14	8.3	419.	40.4	94.6	143.	56.	0.39
22.05	616.	17.2	9.4	2311.	1.13	7.7	388.	41.2	96.5	142.	57.	0.40
22.20	632.	17.5	8.7	2145.	1.22	13.2	618.	37.0	86.5	145.	47.	0.32
22.35	630.	17.7	8.9	2190.	1.22	12.7	609.	37.1	86.7	145.	48.	0.33

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	618.	17.5	9.8	2405.	1.12	6.9	364.	41.5	97.3	142.	59.	0.42
22.65	636.	17.2	8.5	2093.	1.22	12.8	586.	37.1	86.6	146.	46.	0.31
22.80	654.	17.7	8.9	2182.	1.26	15.3	727.	37.1	86.8	150.	48.	0.32
22.95	653.	17.7	9.4	2320.	1.18	10.5	533.	36.8	86.4	150.	51.	0.34
23.10	655.	17.3	9.1	2246.	1.16	9.2	453.	34.8	81.5	151.	46.	0.31
23.25	673.	17.4	8.7	2145.	1.19	11.1	519.	34.4	80.5	155.	44.	0.28
23.40	701.	17.4	9.3	2282.	1.20	11.7	581.	33.7	79.0	161.	46.	0.28
23.55	684.	17.2	9.5	2336.	1.16	9.5	485.	33.6	78.8	157.	47.	0.30
23.70	709.	17.5	9.0	2220.	1.12	7.2	351.	34.3	80.3	163.	45.	0.28
23.85	750.	17.8	9.7	2378.	1.13	7.8	406.	34.6	81.2	172.	49.	0.28
24.00	833.	18.4	10.9	2682.	1.17	9.7	569.	33.7	79.7	191.	54.	0.28
24.15	870.	19.8	11.3	2772.	1.09	5.4	327.	31.8	75.4	200.	53.	0.26
24.30	890.	21.4	11.2	2756.	1.13	7.5	453.	29.8	70.7	205.	49.	0.24
24.45	907.	20.8	11.7	2889.	1.17	10.0	628.	29.4	70.0	209.	51.	0.25
24.60	905.	19.2	12.3	3020.	1.21	12.1	801.	28.6	68.3	208.	53.	0.25
24.75	884.	18.8	12.3	3017.	1.05	3.2	212.	31.9	76.0	203.	58.	0.29
24.90	905.	19.4	11.6	2846.	1.09	5.6	345.	31.8	75.6	208.	55.	0.26
25.05	888.	19.2	11.7	2890.	1.15	8.5	540.	31.2	74.2	204.	54.	0.27
25.20	879.	18.8	12.1	2979.	1.04	2.3	149.	30.4	72.4	202.	55.	0.27
25.35	918.	18.8	11.4	2802.	1.06	3.7	228.	30.1	71.5	211.	51.	0.24
25.50	917.	19.2	11.7	2878.	1.14	8.1	508.	29.9	71.1	211.	52.	0.25
25.65	926.	19.6	12.1	2965.	1.06	3.7	237.	25.9	62.1	213.	47.	0.22
25.80	952.	19.4	11.3	2768.	1.06	3.8	227.	26.8	63.8	219.	45.	0.20
25.95	970.	19.0	11.5	2833.	1.07	4.3	264.	27.7	66.0	223.	47.	0.21
26.10	979.	18.7	12.0	2944.	1.08	4.7	305.	29.2	69.5	225.	52.	0.23
26.25	938.	18.8	11.4	2813.	1.09	5.1	314.	27.1	64.6	216.	46.	0.21
26.40	896.	20.0	11.0	2712.	1.10	5.8	345.	23.7	56.6	206.	39.	0.19
26.55	909.	20.8	11.0	2699.	1.14	8.0	479.	20.9	50.2	219.	34.	0.16
26.70	916.	20.7	11.9	2928.	1.10	5.9	380.	21.5	51.7	211.	38.	0.18
26.85	893.	20.3	11.6	2645.	1.08	4.9	307.	16.3	39.7	205.	29.	0.14
27.00	882.	20.0	11.5	2831.	1.10	5.7	351.	16.7	40.6	203.	29.	0.14
27.15	896.	20.1	11.5	2818.	1.18	10.9	669.	17.0	41.2	206.	30.	0.14
27.30	885.	19.5	11.5	2827.	1.15	8.6	530.	17.4	42.3	203.	30.	0.15
27.45	863.	19.0	11.1	2734.	1.08	4.8	286.	17.9	43.2	198.	30.	0.15
27.60	873.	20.2	10.6	2601.	1.21	12.2	691.	18.4	44.1	201.	29.	0.15
27.75	880.	19.5	10.7	2641.	1.25	14.5	839.	18.5	44.5	202.	30.	0.15
27.90	895.	19.0	11.2	2761.	1.15	9.1	547.	18.4	44.3	206.	31.	0.15
28.05	913.	19.4	10.0	2458.	1.15	8.9	476.	18.2	43.6	210.	27.	0.13
28.20	923.	20.0	10.3	2530.	1.25	14.5	802.	18.1	43.3	212.	28.	0.13

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	939.	18.8	10.7	2641.	1.17	10.2	591.	22.4	53.6	216.	36.	0.17
28.50	960.	19.0	11.0	2715.	1.12	7.0	415.	23.0	54.9	221.	38.	0.17
28.65	974.	20.0	10.2	2518.	1.16	9.4	517.	24.0	57.0	224.	36.	0.16
28.80	914.	19.4	10.8	2661.	1.19	11.0	639.	25.2	60.1	210.	41.	0.19
28.95	898.	18.4	11.3	2783.	1.13	7.6	460.	25.9	61.8	207.	44.	0.21
29.10	890.	18.6	11.2	2759.	1.09	5.2	312.	25.2	60.1	205.	42.	0.21
29.25	899.	18.8	11.2	2759.	1.08	5.0	300.	25.0	59.6	207.	42.	0.20
29.40	906.	18.2	11.4	2810.	1.21	12.1	741.	24.1	57.6	208.	41.	0.20
29.55	875.	19.4	11.4	2815.	1.06	3.8	232.	24.3	58.1	201.	41.	0.21
29.70	878.	20.1	11.2	2751.	1.03	2.0	122.	25.2	60.1	202.	42.	0.21
29.85	893.	19.5	10.9	2688.	1.21	12.1	712.	26.3	62.5	205.	43.	0.21
30.00	890.	17.9	11.0	2714.	1.14	8.1	483.	24.7	58.9	205.	41.	0.20
30.15	885.	17.7	10.8	2661.	1.05	2.9	170.	25.4	60.4	203.	41.	0.20
30.30	902.	19.3	10.0	2460.	1.19	11.2	601.	24.0	56.9	207.	36.	0.17
30.45	920.	19.4	10.5	2582.	1.26	15.4	868.	23.9	56.9	212.	37.	0.18
30.60	916.	18.0	11.1	2727.	1.23	13.3	791.	25.0	59.6	211.	41.	0.20
30.75	950.	19.3	10.2	2510.	1.10	5.7	315.	23.5	55.9	219.	36.	0.16
30.90	961.	20.0	9.7	2382.	1.20	11.9	620.	22.6	53.7	221.	33.	0.15
31.05	960.	19.5	10.8	2665.	1.23	13.4	780.	22.9	54.7	221.	37.	0.17
31.20	928.	19.0	10.8	2665.	1.10	6.0	352.	23.2	55.4	213.	37.	0.18
31.35	891.	19.3	10.8	2666.	1.10	5.7	332.	24.2	57.7	205.	39.	0.19
31.50	904.	19.7	10.7	2643.	1.24	14.1	815.	23.3	55.5	208.	37.	0.18
31.65	902.	18.9	11.2	2750.	1.18	10.8	647.	24.2	57.8	208.	40.	0.19
31.80	887.	18.2	11.4	2799.	1.17	9.7	596.	24.5	58.6	204.	42.	0.20
31.95	893.	17.6	10.9	2691.	1.20	11.9	701.	24.5	58.4	205.	40.	0.19
32.10	900.	18.0	10.6	2615.	1.22	12.8	729.	23.6	56.2	207.	37.	0.18
32.25	873.	17.8	10.8	2664.	1.15	8.5	498.	24.1	57.4	201.	39.	0.19
32.40	869.	18.1	10.8	2650.	1.03	2.0	116.	24.0	57.3	200.	38.	0.19
32.55	880.	18.3	10.5	2575.	1.10	6.2	347.	24.3	57.7	202.	38.	0.19
32.70	881.	17.6	10.8	2655.	1.22	12.8	742.	24.9	59.2	203.	40.	0.20
32.85	903.	16.9	10.9	2688.	1.06	3.7	217.	25.1	59.8	208.	41.	0.20
33.00	912.	17.6	10.9	2680.	1.07	3.9	231.	24.6	58.7	210.	40.	0.19
33.15	915.	18.4	11.0	2715.	1.14	8.0	477.	23.7	56.5	210.	39.	0.19
33.30	933.	17.6	11.0	2716.	1.21	12.4	738.	23.1	55.1	215.	38.	0.18
33.45	949.	17.8	10.6	2615.	1.05	3.2	184.	22.9	54.5	218.	36.	0.17
33.60	935.	18.4	10.9	2690.	1.05	3.1	180.	23.1	55.1	215.	38.	0.17
33.75	920.	18.3	11.1	2721.	1.16	9.6	572.	23.4	55.9	212.	39.	0.18
33.90	903.	17.5	11.1	2732.	1.08	4.8	289.	24.4	58.3	208.	40.	0.19
34.05	896.	17.2	11.2	2755.	1.04	2.1	127.	24.2	57.7	206.	40.	0.20

RUN NUMBER- 41
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	907.	18.0	11.2	2742.	1.11	6.4	383.	24.1	57.5	209.	40.	0.19
34.35	895.	18.2	11.2	2751.	1.11	6.7	404.	25.1	59.8	206.	42.	0.20
34.5[illegible]	889.	17.5	11.3	2780.	1.05	3.1	187.	24.8	59.2	204.	42.	0.20
34.65	887.	17.4	11.2	2765.	1.04	2.2	132.	23.9	57.0	204.	40.	0.20
34.80	890.	18.1	10.9	2687.	1.14	8.0	469.	22.2	53.1	205.	36.	0.18
34.95	867.	17.6	11.0	2713.	1.10	5.7	337.	23.0	55.[illegible]	199.	38.	0.19
35.1[illegible]	877.	17.4	10.7	2637.	1.02	1.0	56.	22.9	54.6	202.	36.	0.18
35.25	891.	17.7	10.8	2663.	1.05	2.7	158.	21.1	50.5	205.	34.	0.17
35.40	904.	17.2	11.1	2727.	1.14	8.2	491.	21.1	50.7	2[illegible]8.	35.	0.17
35.55	92[illegible].	17.[illegible]	11.3	2791.	1.15	8.6	524.	21.0	50.3	212.	36.	0.17
35.70	926.	17.9	10.4	2548.	1.06	3.5	196.	20.1	48.[illegible]	213.	31.	0.15
35.85	939.	18.1	11.3	2775.	1.11	6.2	379.	19.2	46.2	216.	33.	0.15
36.0[illegible]	949.	17.2	11.4	2807.	1.08	4.9	303.	19.1	46.[illegible]	218.	33.	0.15
36.15	904.	17.6	10.9	2684.	1.02	1.3	79.	19.5	46.8	208.	32.	0.15
36.30	902.	18.2	11.7	2877.	1.04	2.6	161.	19.7	47.6	208.	35.	0.17
36.45	911.	17.6	11.4	2803.	1.09	5.2	316.	20.7	49.8	2[illegible]9.	35.	[illegible].17
36.60	899.	17.5	11.8	2895.	1.07	3.8	242.	24.3	58.2	207.	43.	0.21
36.75	898.	18.0	11.9	2923.	1.01	0.5	29.	24.3	58.3	206.	43.	0.21
36.90	908.	18.5	11.7	2867.	1.06	3.5	216.	21.2	51.0	209.	37.	0.18
37.05	899.	18.6	11.8	2910.	1.07	3.9	251.	18.5	44.9	207.	33.	0.16
37.20	881.	17.8	11.8	2901.	1.02	1.1	71.	22.9	54.9	203.	40.	0.20
37.35	886.	18.2	11.3	2786.	1.03	2.0	120.	23.9	57.2	202.	40.	0.20
37.50	892.	17.8	11.5	2819.	1.06	3.7	226.	23.6	56.4	205.	40.	0.20
37.65	879.	17.4	11.0	2702.	1.03	1.5	87.	22.8	54.5	202.	37.	0.18
37.80	899.	16.3	10.7	2629.	1.05	2.7	154.	22.9	54.5	207.	36.	0.18
37.95	908.	17.8	11.2	2744.	1.09	5.3	316.	23.6	56.3	2[illegible]9.	39.	0.19
38.10	919.	17.0	11.5	2821.	1.13	7.9	484.	22.3	53.5	211.	38.	0.18
38.25	936.	17.2	10.9	2688.	1.03	1.9	111.	22.1	52.8	215.	36.	0.17
38.40	952.	18.6	11.2	2755.	1.04	2.1	126.	21.7	52.0	219.	36.	0.17
38.55	964.	18.6	11.5	2833.	1.04	2.5	158.	22.1	53.1	222.	38.	0.17
38.70	931.	17.2	11.4	2805.	1.05	3.0	185.	23.1	55.3	214.	39.	0.18
38.85	885.	17.9	11.4	2798.	1.04	2.1	127.	23.8	56.9	204.	40.	0.20
39.00	900.	18.1	11.7	2875.	1.06	3.3	209.	22.9	55.0	207.	40.	0.19
39.15	910.	17.8	11.3	2785.	1.10	6.0	364.	23.9	57.1	2[illegible]9.	40.	0.19
39.30	902.	17.1	11.6	2853.	1.10	5.9	367.	24.8	59.4	207.	43.	0.21
39.45	900.	16.2	11.9	2931.	1.02	1.1	70.	23.5	56.5	2[illegible]7.	42.	0.20
39.60	895.	16.7	11.2	2755.	1.05	3.0	183.	23.0	54.9	206.	38.	0.19
39.75	881.	17.2	11.2	2749.	1.04	2.1	126.	22.8	54.6	203.	38.	0.19
39.90	877.	17.1	11.2	2760.	1.02	1.1	67.	22.7	54.4	202.	38.	0.19

RUN NUMBER- 41
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	896.	17.4	11.3	2776.	1.01	0.7	40.	23.3	55.7	206.	39.	0.19
40.20	896.	17.6	11.1	2739.	1.05	3.0	177.	23.7	56.5	206.	39.	0.19
40.35	903.	18.5	11.1	2729.	1.17	10.1	600.	23.6	56.3	208.	39.	0.19
40.50	919.	18.8	10.9	2682.	1.09	5.4	317.	23.3	55.5	211.	38.	0.18
40.65	931.	18.6	11.2	2743.	1.02	0.9	54.	22.7	54.4	214.	38.	0.18
40.80	937.	17.8	12.1	2986.	1.09	5.5	359.	22.2	53.6	215.	41.	0.19
40.95	962.	17.3	11.4	2812.	1.02	1.4	86.	20.8	50.1	221.	36.	0.16
41.10	951.	19.3	11.6	2856.	1.02	1.1	66.	18.7	45.2	219.	33.	0.15
41.25	936.	19.1	12.1	2983.	1.03	1.6	107.	22.1	53.2	215.	40.	0.19
41.40	902.	18.1	12.4	3051.	1.01	0.8	53.	22.6	54.4	207.	42.	0.20

LOCATION- SUNNY POINT
DATE OF TEST- 1[illegible] 4 78
RUN NUMBER- 41
SEGMENT NUMBER- 2
WATER DEPTH- 12 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6[illegible]
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	33.	4.6	0.4	98.	1.01	0.5	1.	2.6	6.0	8.	0.	0.02
0.15	36.	4.5	0.3	63.	1.01	0.7	1.	2.8	6.4	8.	0.	0.01
0.30	25.	5.3	0.3	76.	1.01	0.6	1.	3.7	8.4	6.	0.	0.03
0.45	48.	5.8	0.3	86.	1.01	0.5	1.	4.0	9.2	11.	0.	0.02
0.60	36.	6.8	0.4	98.	1.01	0.5	1.	4.7	10.7	8.	0.	0.03
0.75	84.	7.4	0.3	76.	1.01	0.5	1.	5.8	13.3	19.	0.	0.01
0.90	140.	7.5	0.3	85.	1.01	0.5	1.	5.6	13.0	32.	0.	0.01
1.05	124.	8.3	0.3	77.	1.01	0.5	1.	6.4	14.7	28.	0.	0.01
1.20	78.	10.[illegible]	0.4	86.	1.01	0.4	1.	7.8	18.0	18.	0.	0.02
1.35	62.	10.[illegible]	0.4	89.	1.01	0.4	1.	8.9	20.5	14.	0.	0.03
1.50	60.	10.2	0.3	78.	1.01	0.5	1.	9.0	20.7	14.	0.	0.03
1.65	54.	10.3	0.3	81.	1.01	0.5	1.	8.8	20.4	12.	0.	0.03
1.80	53.	9.9	0.3	73.	1.01	0.5	1.	8.8	20.4	12.	0.	0.03
1.95	63.	10.2	0.3	82.	1.01	0.4	1.	9.3	21.4	15.	0.	0.03
2.10	80.	10.5	0.3	85.	1.01	0.5	1.	9.7	22.3	18.	0.	0.03
2.25	91.	9.7	0.3	85.	1.01	0.5	1.	8.9	20.5	21.	0.	0.02
2.40	103.	10.5	0.4	90.	1.01	0.4	1.	9.2	21.2	24.	0.	0.02
2.55	113.	10.6	0.4	97.	1.01	0.4	1.	9.3	21.5	26.	1.	0.02
2.70	122.	10.8	0.4	90.	1.01	0.4	1.	9.5	21.9	28.	0.	0.02
2.85	158.	10.4	0.3	75.	1.01	0.5	1.	9.6	22.2	36.	0.	0.01
3.00	186.	10.7	0.3	85.	1.01	0.5	1.	9.5	21.8	43.	0.	0.01
3.15	187.	10.6	0.4	89.	1.01	0.5	1.	9.7	22.4	43.	1.	0.01
3.30	190.	10.4	0.4	102.	1.01	0.3	1.	9.5	21.9	44.	1.	0.01
3.45	178.	10.4	0.4	105.	1.01	0.4	1.	9.2	21.1	41.	1.	0.01
3.60	131.	10.2	0.4	100.	1.01	0.5	1.	9.3	21.4	30.	1.	0.02
3.75	74.	10.9	0.4	102.	1.01	0.4	1.	9.5	21.8	17.	1.	0.03
3.90	61.	10.6	0.4	89.	1.01	0.4	1.	9.5	21.8	14.	0.	0.04
4.05	60.	10.8	0.4	97.	1.01	0.6	1.	9.5	21.8	14.	1.	0.04
4.20	62.	10.2	0.4	97.	1.01	0.6	1.	9.1	21.0	14.	1.	0.04
4.35	66.	10.1	0.4	94.	1.01	0.4	1.	8.8	20.4	15.	0.	0.03
4.50	71.	10.1	0.3	77.	1.01	0.4	1.	8.8	20.4	16.	0.	0.02
4.65	74.	10.1	0.4	88.	1.01	0.4	1.	9.0	20.7	17.	0.	0.03
4.80	89.	10.1	0.4	96.	1.01	0.5	1.	9.5	21.9	21.	1.	0.03

RUN NUMBER- 41
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	107.	10.1	0.4	87.	1.01	0.5	1.	8.7	20.0	25.	0.	0.02
5.10	134.	10.4	0.4	91.	1.01	0.4	1.	9.1	21.0	31.	0.	0.02
5.25	145.	10.4	0.4	96.	1.01	0.	0.	9.3	21.5	33.	1.	0.02
5.40	156.	10.5	0.4	96.	1.01	0.4	1.	9.4	21.8	36.	1.	0.01
5.55	179.	10.0	0.3	85.	1.01	0.5	1.	8.9	20.4	41.	0.	0.01
5.70	203.	10.3	0.3	84.	1.01	0.4	1.	9.0	20.8	47.	0.	0.01
5.85	171.	10.8	0.3	74.	1.01	0.4	1.	8.9	20.5	39.	0.	0.01
6.00	135.	10.8	0.3	82.	1.01	0.3	1.	9.1	20.9	31.	0.	0.01
6.15	193.	11.2	0.3	84.	1.01	0.3	1.	10.0	23.1	44.	0.	0.01
6.30	294.	12.8	0.3	84.	1.01	0.4	1.	10.9	25.1	68.	1.	0.01
6.45	325.	13.8	2.4	599.	1.01	0.4	5.	11.3	26.1	75.	4.	0.05
6.60	385.	15.9	4.3	1063.	1.01	0.4	9.	11.8	27.4	89.	7.	0.08
6.75	467.	16.3	6.8	1679.	1.01	0.4	13.	9.2	21.9	107.	9.	0.09
6.90	513.	15.6	9.8	2421.	1.01	0.4	21.	7.3	18.4	118.	11.	0.10
7.05	496.	15.4	10.3	2523.	1.02	0.9	49.	6.6	16.9	114.	11.	0.09
7.20	497.	15.2	9.5	2337.	1.02	1.1	58.	6.7	16.9	114.	10.	0.09
7.35	499.	15.3	10.2	2512.	1.02	1.2	63.	7.4	18.8	115.	12.	0.10
7.50	497.	15.0	11.3	2774.	1.02	1.2	73.	6.5	17.0	114.	12.	0.10
7.65	524.	14.9	10.0	2461.	1.03	1.7	93.	5.3	13.9	121.	9.	0.07
7.80	528.	14.9	11.0	2711.	1.03	1.7	100.	6.3	16.5	121.	11.	0.09
7.95	534.	14.8	11.5	2828.	1.02	1.4	86.	7.2	18.7	123.	13.	0.11
8.10	544.	15.0	10.9	2675.	1.02	1.2	73.	6.1	15.9	125.	11.	0.09
8.25	548.	14.8	10.5	2592.	1.01	0.9	49.	7.6	19.2	126.	13.	0.10
8.40	536.	15.1	11.5	2833.	1.02	1.1	67.	7.8	20.0	123.	14.	0.12
8.55	509.	15.3	11.5	2836.	1.01	0.9	53.	7.7	19.8	117.	14.	0.12
8.70	489.	15.4	10.9	2673.	1.02	0.9	54.	7.9	20.0	112.	14.	0.12
8.85	499.	15.2	11.4	2795.	1.03	1.5	94.	8.1	20.6	115.	15.	0.13
9.00	499.	15.2	12.1	2969.	1.02	1.0	68.	7.8	20.2	115.	15.	0.13
9.15	491.	15.4	11.9	2921.	1.02	1.1	69.	7.1	18.6	113.	14.	0.12
9.30	494.	15.4	11.6	2849.	1.01	0.8	49.	6.1	16.3	114.	12.	0.10
9.45	505.	15.1	11.7	2882.	1.02	1.3	83.	6.6	17.3	116.	13.	0.11
9.60	499.	14.5	11.9	2916.	1.02	1.1	71.	6.1	16.3	115.	12.	0.10
9.75	483.	14.8	11.1	2738.	1.02	1.0	61.	5.8	15.2	111.	11.	0.10
9.90	492.	15.4	10.8	2646.	1.02	1.1	63.	7.0	18.0	113.	12.	0.11
10.05	514.	15.5	11.2	2757.	1.02	1.1	65.	8.0	20.4	118.	14.	0.12
10.20	515.	15.3	11.4	2814.	1.02	1.0	60.	6.4	16.8	118.	12.	0.10
10.35	519.	15.2	10.2	2510.	1.02	1.0	54.	6.5	16.7	119.	11.	0.09
10.50	526.	15.4	10.0	2451.	1.02	1.2	67.	7.3	18.4	121.	11.	0.09
10.65	530.	15.1	10.1	2473.	1.02	0.9	49.	8.5	21.2	122.	13.	0.11

RUN NUMBER- 41
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	529.	15.3	9.7	2384.	1.01	0.7	37.	9.7	23.8	122.	14.	0.12
10.95	513.	15.9	8.9	2194.	1.02	1.0	49.	10.2	24.8	118.	14.	0.12
11.10	489.	16.5	9.4	2316.	1.01	0.7	38.	9.4	23.0	112.	13.	0.12
11.25	472.	16.5	9.1	2229.	1.01	0.9	41.	9.8	23.8	109.	13.	0.12
11.40	460.	16.8	9.0	2216.	1.02	1.0	49.	10.2	24.7	106.	14.	0.13
11.55	475.	16.2	9.2	2264.	1.02	1.3	66.	9.5	23.1	109.	13.	0.12
11.70	486.	15.9	8.6	2105.	1.03	1.7	76.	7.6	18.6	112.	10.	0.09
11.85	472.	16.1	8.7	2151.	1.02	1.3	59.	7.8	19.2	109.	10.	0.10
12.00	464.	16.3	8.5	2090.	1.01	0.9	40.	9.5	23.0	107.	12.	0.11
12.15	475.	16.2	8.6	2106.	1.02	1.3	61.	10.2	24.7	109.	13.	0.12
12.30	488.	15.8	8.8	2169.	1.02	1.1	50.	9.7	23.7	112.	13.	0.12
12.45	521.	16.6	8.7	2138.	1.01	0.7	32.	9.1	22.2	120.	12.	0.10
12.60	631.	18.6	8.5	2091.	1.02	0.9	42.	10.1	24.5	145.	13.	0.09
12.75	655.	18.2	10.4	2563.	1.02	1.5	82.	10.3	25.4	151.	16.	0.11
12.90	644.	17.8	10.3	2524.	1.03	1.6	87.	9.4	23.2	148.	15.	0.10
13.05	655.	18.0	9.1	2240.	1.03	2.0	100.	8.6	21.0	151.	12.	0.08
13.20	686.	18.2	10.0	2464.	1.04	2.2	121.	10.3	25.3	158.	16.	0.10
13.35	668.	18.1	9.8	2411.	1.03	1.9	101.	10.5	25.7	154.	16.	0.10
13.50	623.	18.7	9.4	2314.	1.02	1.0	53.	13.2	31.8	143.	19.	0.13
13.65	569.	20.0	8.4	2055.	1.01	0.8	35.	15.8	37.6	131.	20.	0.15
13.80	593.	20.7	5.6	1367.	1.00	0.	0.	12.5	29.2	136.	10.	0.07
13.95	590.	19.6	5.7	1405.	1.00	0.	0.	12.5	29.4	136.	10.	0.08
14.10	574.	19.8	7.5	1833.	1.00	0.	0.	10.9	26.1	132.	12.	0.09
14.25	611.	19.2	8.4	2068.	1.02	1.0	47.	9.4	22.8	141.	12.	0.08
14.40	628.	18.2	9.0	2211.	1.05	3.0	146.	9.6	23.5	144.	13.	0.09
14.55	577.	17.9	9.4	2311.	1.04	2.5	129.	10.7	26.0	133.	15.	0.11
14.70	583.	18.9	8.0	1979.	1.05	2.9	126.	11.3	27.1	134.	14.	0.10
14.85	625.	18.8	8.0	1955.	1.01	0.8	35.	11.5	27.6	144.	14.	0.09
15.00	724.	19.0	9.4	2315.	1.01	0.4	22.	11.8	28.5	167.	17.	0.10
15.15	899.	22.5	8.3	2038.	1.00	0.	0.	13.6	32.3	207.	17.	0.08
15.30	958.	24.9	8.2	2008.	1.00	0.	0.	15.4	36.5	220.	19.	0.08
15.45	965.	19.8	9.5	2344.	1.00	0.	0.	13.4	32.3	222.	19.	0.09
15.60	956.	19.8	10.9	2687.	1.00	0.	0.	13.5	33.1	220.	22.	0.10
15.75	1001.	22.6	7.9	1938.	1.00	0.	0.	14.9	35.2	230.	17.	0.07
15.90	995.	22.8	8.4	2065.	1.00	0.	0.	15.6	37.1	229.	19.	0.08
16.05	965.	21.7	10.7	2637.	1.00	0.	0.	13.9	33.9	222.	25.	0.10
16.20	941.	22.0	10.4	2568.	1.00	0.	0.	17.0	40.9	216.	27.	0.12
16.35	938.	23.9	9.4	2323.	1.00	0.	0.	14.7	35.4	216.	21.	0.10
16.50	950.	23.6	9.8	2406.	1.00	0.	0.	11.7	28.5	218.	17.	0.08

RUN NUMBER- 41
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	924.	20.3	12.5	3084.	1.00	0.	0.	16.4	40.2	212.	31.	0.15
16.80	917.	24.1	12.9	3168.	1.00	0.	0.	13.5	33.7	211.	27.	0.13
16.95	943.	24.7	8.9	2177.	1.00	0.	0.	10.6	25.7	217.	14.	0.07
17.10	947.	20.4	12.9	3174.	1.00	0.	0.	11.7	29.5	218.	24.	0.11
17.25	911.	21.0	15.4	3789.	1.00	0.	0.	12.3	32.0	210.	31.	0.15
17.40	924.	23.0	9.2	2252.	1.00	0.	0.	11.5	27.9	212.	16.	0.07
17.55	934.	22.8	9.7	2376.	1.00	0.	0.	10.0	24.6	215.	15.	0.07
17.70	942.	19.2	12.0	2953.	1.01	0.3	20.	11.8	29.5	217.	22.	0.10
17.85	961.	20.7	10.2	2514.	1.00	0.	0.	13.3	32.2	221.	20.	0.09
18.00	981.	25.4	9.2	2265.	1.00	0.	0.	13.4	32.1	226.	18.	0.08
18.15	977.	20.1	10.8	2647.	1.00	0.	0.	12.1	29.7	225.	20.	0.09
18.30	970.	19.5	12.8	3154.	1.00	0.	0.	14.3	35.6	223.	28.	0.13
18.45	972.	24.9	11.6	2864.	1.00	0.	0.	15.7	38.4	224.	28.	0.12
18.60	954.	24.3	10.6	2612.	1.00	0.	0.	13.6	33.2	219.	22.	0.10
18.75	944.	21.4	11.9	2914.	1.00	0.	0.	10.7	27.0	217.	20.	0.09
18.90	930.	20.9	14.2	3490.	1.00	0.	0.	10.3	27.0	214.	24.	0.11
19.05	932.	23.2	13.4	3305.	1.01	0.3	23.	12.8	32.4	214.	27.	0.13
19.20	950.	23.4	12.7	3119.	1.01	0.3	23.	8.5	22.2	218.	17.	0.08
19.35	928.	20.2	13.8	3385.	1.00	0.	0.	10.1	26.3	213.	22.	0.11
19.50	919.	20.4	13.8	3382.	1.00	0.	0.	10.2	26.5	211.	23.	0.11
19.65	931.	21.0	13.4	3292.	1.01	0.5	33.	10.1	26.9	214.	22.	0.10
19.80	928.	20.6	14.0	3453.	1.02	1.0	74.	10.1	26.4	213.	23.	0.11
19.95	902.	20.5	13.6	3356.	1.00	0.	0.	10.3	26.7	207.	23.	0.11
20.10	927.	22.4	11.8	2910.	1.00	0.	0.	10.1	25.4	213.	19.	0.09
20.25	941.	22.4	12.2	3004.	1.00	0.	0.	11.1	28.0	217.	21.	0.10
20.40	944.	19.8	12.7	3119.	1.00	0.	0.	11.1	28.1	217.	22.	0.10
20.55	939.	20.0	11.1	2739.	1.00	0.	0.	13.7	33.6	216.	23.	0.11
20.70	992.	24.2	9.3	2285.	1.00	0.	0.	14.7	35.2	228.	20.	0.09
20.85	995.	22.2	10.9	2693.	1.00	0.	0.	13.3	32.4	229.	22.	0.10
21.00	960.	20.2	11.8	2912.	1.00	0.	0.	13.4	33.1	221.	24.	0.11
21.15	933.	22.9	10.8	2650.	1.00	0.	0.	15.6	37.9	214.	25.	0.12
21.30	935.	24.4	10.2	2518.	1.00	0.	0.	13.1	32.0	215.	20.	0.09
21.45	939.	22.8	11.9	2916.	1.00	0.	0.	11.8	29.5	216.	22.	0.10
21.60	931.	21.3	13.3	3275.	1.00	0.	0.	15.3	38.0	214.	31.	0.15
21.75	928.	23.8	12.5	3072.	1.00	0.	0.	13.4	33.3	213.	26.	0.12
21.90	938.	23.3	10.2	2519.	1.00	0.	0.	11.1	27.3	216.	17.	0.08
22.05	921.	20.4	12.2	3006.	1.00	0.	0.	11.7	29.4	212.	22.	0.11
22.20	888.	22.8	14.4	3551.	1.00	0.	0.	11.7	30.3	204.	27.	0.13
22.35	910.	23.8	8.5	2080.	1.00	0.	0.	10.6	25.6	209.	13.	0.06

RUN NUMBER- 41
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	846.	21.1	10.7	2638.	1.00	0.	0.	10.6	26.3	195.	18.	0.09
22.65	816.	19.8	11.6	2842.	1.00	0.	0.	12.2	30.1	188.	22.	0.12
22.80	824.	21.4	9.4	2305.	1.00	0.	0.	14.0	33.6	190.	20.	0.10
22.95	844.	20.5	9.2	2273.	1.00	0.	0.	13.9	33.4	194.	19.	0.10
23.10	843.	19.0	10.8	2655.	1.00	0.	0.	11.3	27.8	194.	19.	0.10
23.25	835.	19.6	11.6	2862.	1.00	0.	0.	13.2	32.5	192.	24.	0.12
23.40	821.	23.0	10.9	2690.	1.00	0.	0.	14.6	35.6	189.	24.	0.13
23.55	811.	22.4	10.2	2459.	1.00	0.	0.	12.0	29.4	187.	19.	0.10
23.70	812.	18.8	11.2	2750.	1.01	0.4	22.	11.6	28.6	187.	20.	0.11
23.85	773.	21.7	13.1	3217.	1.01	0.4	27.	13.2	33.2	178.	27.	0.15
24.00	801.	22.5	8.9	2192.	1.00	0.	0.	12.3	29.6	184.	16.	0.09
24.15	798.	21.0	10.3	2526.	1.00	0.	0.	10.1	24.8	184.	16.	0.09
24.30	775.	19.7	12.2	3000.	1.00	0.	0.	9.6	24.4	178.	18.	0.10
24.45	716.	21.1	9.2	2272.	1.00	0.	0.	12.1	29.2	165.	17.	0.10
24.60	635.	19.5	10.6	2609.	1.00	0.	0.	9.6	24.0	146.	16.	0.11
24.75	633.	16.7	10.7	2626.	1.00	0.	0.	9.7	24.3	146.	16.	0.11
24.90	634.	16.8	10.5	2578.	1.00	0.	0.	8.6	21.6	146.	14.	0.10
25.05	658.	17.9	10.0	2464.	1.01	0.8	42.	8.0	20.1	151.	13.	0.08
25.20	671.	17.6	12.0	2944.	1.01	0.7	43.	8.0	20.7	154.	15.	0.10
25.35	669.	17.6	11.4	2802.	1.01	0.4	25.	8.5	21.6	154.	15.	0.10
25.50	698.	17.6	11.0	2717.	1.00	0.	0.	9.4	23.5	160.	16.	0.10
25.65	692.	17.3	12.5	3068.	1.00	0.	0.	10.3	26.1	159.	20.	0.13
25.80	658.	17.0	11.9	2928.	1.00	0.	0.	8.4	21.6	151.	16.	0.11
25.95	620.	17.2	11.3	2780.	1.00	0.	0.	8.6	21.7	143.	15.	0.11
26.10	624.	17.9	11.8	2902.	1.00	0.	0.	9.5	24.1	144.	18.	0.12
26.25	638.	17.6	11.9	2920.	1.01	0.5	32.	7.8	20.2	147.	15.	0.10
26.40	630.	16.9	11.8	2899.	1.01	0.5	33.	7.4	19.2	145.	14.	0.10
26.55	618.	17.6	11.9	2927.	1.00	0.	0.	6.8	17.8	142.	13.	0.09
26.70	632.	17.6	12.0	2939.	1.00	0.	0.	7.3	19.1	145.	14.	0.10
26.85	625.	17.6	12.2	3001.	1.00	0.	0.	8.0	20.8	144.	16.	0.11
27.00	620.	17.1	12.2	3001.	1.00	0.	0.	7.5	19.5	143.	15.	0.10
27.15	632.	17.3	10.7	2644.	1.00	0.	0.	7.4	18.8	145.	13.	0.09
27.30	637.	17.8	11.7	2873.	1.01	0.5	30.	8.7	22.1	146.	16.	0.11
27.45	640.	17.4	12.0	2956.	1.01	0.3	19.	8.2	21.2	147.	16.	0.11
27.60	645.	17.6	11.3	2783.	1.00	0.	0.	6.6	17.2	148.	12.	0.08
27.75	663.	17.4	11.1	2721.	1.00	0.	0.	7.2	18.5	152.	13.	0.08
27.90	684.	17.8	12.1	2986.	1.02	0.9	58.	8.5	21.8	157.	16.	0.10
28.05	675.	18.2	12.0	2940.	1.01	0.5	29.	9.0	23.0	155.	17.	0.11
28.20	678.	18.6	10.9	2681.	1.00	0.	0.	9.2	23.1	156.	16.	0.10

RUN NUMBER- 41
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	656.	18.5	11.5	2837.	1.00	0.	0.	9.8	24.8	151.	18.	0.12
28.50	634.	18.0	12.0	2960.	1.00	0.	0.	10.7	26.9	146.	20.	0.14
28.65	611.	18.4	11.2	2752.	1.00	0.	0.	10.4	26.0	140.	18.	0.13
28.80	610.	20.3	10.9	2690.	1.00	0.	0.	11.3	27.8	140.	19.	0.13
28.95	629.	20.0	11.1	2738.	1.00	0.	0.	10.0	25.1	145.	17.	0.12
29.10	619.	20.0	11.4	2801.	1.01	0.4	24.	9.7	24.3	142.	17.	0.12
29.25	613.	20.9	10.8	2656.	1.00	0.	0.	10.3	25.5	141.	17.	0.12
29.40	613.	21.6	10.2	2497.	1.01	0.4	21.	11.6	28.3	141.	18.	0.13
29.55	608.	21.8	10.8	2652.	1.01	0.6	33.	12.1	29.7	140.	20.	0.14
29.70	616.	21.8	10.7	2627.	1.01	0.5	27.	12.1	29.7	142.	20.	0.14
29.85	627.	21.7	9.8	2416.	1.01	0.8	40.	11.7	28.5	144.	17.	0.12
30.00	637.	21.5	10.6	2599.	1.01	0.5	26.	12.3	30.1	146.	20.	0.13
30.15	642.	21.5	10.9	2679.	1.00	0.	0.	13.1	32.1	148.	22.	0.15
30.30	646.	21.8	10.4	2564.	1.01	0.4	24.	11.5	28.2	149.	18.	0.12
30.45	665.	21.6	9.9	2424.	1.00	0.	0.	13.0	31.5	153.	19.	0.13

LOCATION- SUNNY POINT
DATE OF TEST- 10 4 78
RUN NUMBER- 41
SEGMENT NUMBER- 3
WATER DEPTH- 35 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6%
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	896.	18.2	12.2	2997.	1.01	0.5	35.	22.5	54.1	206.	41.	0.20
0.15	898.	18.1	12.4	3052.	1.01	0.7	45.	22.1	53.4	207.	41.	0.20
0.30	888.	17.9	12.2	3012.	1.00	0.	0.	23.2	55.7	204.	42.	0.21
0.45	902.	17.9	12.0	2953.	1.01	0.3	22.	23.4	56.3	207.	42.	0.20
0.60	896.	18.8	12.1	2984.	1.00	0.	0.	23.5	56.6	206.	43.	0.21
0.75	887.	18.6	12.1	2987.	1.00	0.	0.	21.2	51.2	204.	39.	0.19
0.90	879.	17.8	11.7	2886.	1.00	0.	0.	21.2	51.1	202.	37.	0.18
1.05	883.	17.6	11.6	2849.	1.01	0.5	32.	21.7	52.2	203.	38.	0.19
1.20	906.	18.0	12.4	3041.	1.01	0.8	51.	22.9	55.2	208.	42.	0.20
1.35	922.	18.2	12.2	3011.	1.00	0.	0.	23.1	55.6	212.	42.	0.20
1.50	927.	18.3	11.6	2844.	1.00	0.	0.	13.8	33.9	213.	24.	0.11
1.65	936.	18.7	12.0	2950.	1.01	0.5	32.	12.6	31.4	215.	23.	0.11
1.80	949.	18.8	12.8	3155.	1.02	0.9	64.	11.6	29.4	218.	23.	0.11
1.95	932.	19.1	12.0	2956.	1.01	0.3	22.	13.9	34.3	214.	26.	0.12
2.10	909.	19.8	12.1	2966.	1.00	0.	0.	16.8	41.0	209.	31.	0.15
2.25	904.	20.0	12.7	3123.	1.00	0.	0.	17.3	42.4	208.	33.	0.16
2.40	899.	19.7	13.0	3190.	1.00	0.	0.	17.1	42.0	207.	34.	0.16
2.55	888.	19.4	12.1	2984.	1.00	0.	0.	16.6	40.6	204.	31.	0.15
2.70	898.	19.4	12.4	3038.	1.00	0.	0.	14.8	36.4	207.	28.	0.14
2.85	891.	19.4	12.4	3055.	1.00	0.	0.	15.8	38.9	205.	30.	0.15
3.00	875.	19.5	12.4	3053.	1.00	0.	0.	16.4	40.2	201.	31.	0.15
3.15	880.	18.5	12.0	2948.	1.00	0.	0.	16.8	41.1	202.	31.	0.15
3.30	884.	19.4	12.0	2951.	1.01	0.4	26.	17.7	43.0	203.	32.	0.16
3.45	884.	19.2	12.0	2954.	1.00	0.	0.	17.6	42.8	203.	32.	0.16
3.60	891.	19.2	11.6	2855.	1.00	0.	0.	17.4	42.2	205.	30.	0.15
3.75	898.	19.7	10.9	2672.	1.00	0.	0.	17.2	41.4	207.	28.	0.14
3.90	912.	19.9	12.2	3000.	1.01	0.7	47.	16.6	40.7	210.	31.	0.15
4.05	921.	19.2	12.0	2953.	1.01	0.4	24.	17.3	42.2	212.	31.	0.15
4.20	939.	19.0	11.8	2900.	1.00	0.	0.	18.1	43.9	216.	32.	0.15
4.35	946.	19.0	12.3	3027.	1.00	0.	0.	18.2	44.3	217.	34.	0.16
4.50	939.	19.0	11.8	2895.	1.02	1.1	71.	17.8	43.1	216.	32.	0.15
4.65	899.	19.8	11.5	2833.	1.00	0.	0.	18.0	43.7	207.	31.	0.15
4.80	886.	21.5	11.8	2907.	1.00	0.	0.	18.1	43.8	204.	32.	0.16

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	896.	22.4	12.4	3053.	1.01	0.3	23.	18.2	44.5	206.	34.	0.17
5.10	899.	20.9	12.2	3006.	1.01	0.6	41.	18.3	44.5	207.	34.	0.16
5.25	884.	20.1	12.2	3004.	1.01	0.5	31.	18.3	44.5	203.	34.	0.17
5.40	907.	20.7	12.2	3012.	1.00	0.	0.	18.2	44.2	209.	34.	0.16
5.55	902.	20.7	12.3	3013.	1.00	0.	0.	19.0	46.1	207.	35.	0.17
5.70	874.	20.1	12.3	3013.	1.00	0.	0.	18.3	44.5	201.	34.	0.17
5.85	873.	19.8	12.0	2939.	1.01	0.3	19.	18.4	44.6	201.	33.	0.17
6.00	885.	20.0	12.0	2949.	1.01	0.4	25.	17.3	42.2	203.	31.	0.15
6.15	898.	20.2	12.4	3038.	1.00	0.	0.	17.1	41.9	207.	32.	0.16
6.30	918.	19.4	11.7	2889.	1.00	0.	0.	17.3	42.0	211.	31.	0.15
6.45	925.	21.6	11.2	2764.	1.01	0.4	22.	17.5	42.4	213.	30.	0.14
6.60	937.	20.2	12.6	3098.	1.01	0.4	26.	17.7	43.2	216.	34.	0.16
6.75	950.	20.1	12.5	3071.	1.00	0.	0.	17.9	43.8	218.	34.	0.16
6.90	929.	19.8	12.0	2959.	1.00	0.	0.	17.6	43.0	214.	32.	0.15
7.05	914.	19.5	12.4	3041.	1.00	0.	0.	17.7	43.2	210.	33.	0.16
7.20	910.	19.9	12.7	3119.	1.01	0.4	29.	17.9	43.8	209.	35.	0.17
7.35	900.	20.3	12.6	3102.	1.00	0.	0.	17.3	42.3	207.	33.	0.16
7.50	891.	20.3	12.6	3111.	1.00	0.	0.	16.6	40.8	205.	32.	0.16
7.65	895.	20.4	13.0	3188.	1.00	0.	0.	14.5	36.1	206.	29.	0.14
7.80	899.	20.4	13.2	3245.	1.00	0.	0.	13.4	33.7	207.	28.	0.13
7.95	882.	20.4	12.8	3150.	1.00	0.	0.	14.0	34.8	203.	28.	0.14
8.10	886.	20.6	12.5	3067.	1.00	0.	0.	14.2	35.2	204.	27.	0.13
8.25	892.	20.7	12.8	3138.	1.00	0.	0.	14.2	35.3	205.	28.	0.14
8.40	877.	20.6	12.9	3170.	1.00	0.	0.	14.7	36.5	202.	29.	0.14
8.55	874.	19.9	12.6	3106.	1.00	0.	0.	15.6	38.6	201.	30.	0.15
8.70	885.	20.3	12.6	3095.	1.00	0.	0.	14.7	36.4	204.	28.	0.14
8.85	899.	20.5	12.8	3152.	1.00	0.	0.	15.0	37.2	207.	30.	0.14
9.00	910.	20.5	12.5	3075.	1.00	0.	0.	13.9	34.4	209.	27.	0.13
9.15	922.	20.2	11.9	2929.	1.01	0.3	19.	13.9	34.3	212.	25.	0.12
9.30	944.	20.3	12.9	3177.	1.01	0.5	33.	13.9	34.6	217.	28.	0.13
9.45	925.	20.1	12.9	3167.	1.00	0.	0.	13.8	34.4	213.	28.	0.13
9.60	892.	20.0	12.2	3007.	1.00	0.	0.	15.0	37.0	205.	28.	0.14
9.75	890.	19.9	12.7	3118.	1.00	0.	0.	15.8	38.9	205.	31.	0.15
9.90	895.	19.7	13.2	3234.	1.00	0.	0.	15.9	39.3	206.	32.	0.16
10.05	884.	19.9	13.0	3188.	1.00	0.	0.	15.9	39.1	203.	32.	0.15
10.20	879.	20.5	12.7	3119.	1.00	0.	0.	15.7	38.8	202.	31.	0.15
10.35	887.	21.0	12.8	3154.	1.00	0.	0.	15.3	37.9	204.	30.	0.15
10.50	873.	20.4	13.1	3218.	1.00	0.	0.	15.5	38.3	201.	31.	0.16
10.65	861.	20.4	12.4	3050.	1.00	0.	0.	15.4	37.9	198.	29.	0.15

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	869.	20.8	12.0	2951.	1.00	0.	0.	15.3	37.6	200.	28.	0.14
10.95	868.	21.0	12.5	3069.	1.00	0.	0.	16.0	39.4	200.	31.	0.15
11.10	873.	20.5	12.7	3130.	1.00	0.	0.	17.3	42.4	201.	34.	0.17
11.25	896.	19.4	12.6	3110.	1.00	0.	0.	17.1	41.8	205.	33.	0.16
11.40	908.	19.6	12.6	3096.	1.00	0.	0.	18.6	45.4	209.	36.	0.17
11.55	911.	20.1	12.8	3143.	1.01	0.4	28.	18.9	46.1	209.	37.	0.18
11.70	920.	20.3	12.7	3120.	1.01	0.4	29.	18.9	46.2	212.	36.	0.17
11.85	935.	20.4	12.4	3039.	1.00	0.	0.	18.8	45.7	215.	35.	0.16
12.00	918.	20.8	12.7	3114.	1.00	0.	0.	19.2	46.7	211.	37.	0.17
12.15	894.	21.2	12.6	3095.	1.00	0.	0.	19.9	48.5	206.	38.	0.18
12.30	865.	21.2	12.2	3000.	1.00	0.	0.	20.5	49.6	199.	38.	0.19
12.45	884.	20.8	12.5	3078.	1.00	0.	0.	20.9	50.7	203.	39.	0.19
12.60	889.	20.4	12.8	3153.	1.00	0.	0.	21.1	51.3	205.	41.	0.20
12.75	869.	20.5	12.7	3113.	1.00	0.	0.	21.1	51.2	200.	40.	0.20
12.90	870.	20.7	12.4	3041.	1.00	0.	0.	20.4	49.5	200.	38.	0.19
13.05	875.	20.5	12.4	3044.	1.00	0.	0.	21.1	51.1	201.	39.	0.20
13.20	871.	21.5	12.6	3110.	1.00	0.	0.	20.8	50.4	200.	40.	0.20
13.35	858.	19.0	12.2	2990.	1.00	0.	0.	21.8	52.5	197.	40.	0.20
13.50	873.	19.5	12.0	2954.	1.00	0.	0.	23.2	55.7	201.	42.	0.21
13.65	878.	20.0	12.1	2970.	1.02	0.9	58.	23.9	57.4	202.	43.	0.21
13.80	887.	19.4	11.7	2875.	1.10	5.7	356.	23.6	56.5	204.	41.	0.20
13.95	904.	19.2	11.6	2859.	1.02	1.1	70.	23.0	55.1	208.	40.	0.19
14.10	925.	19.5	12.0	2962.	1.03	1.6	101.	23.1	55.5	213.	42.	0.20
14.25	934.	20.1	11.7	2882.	1.09	5.3	335.	22.4	53.7	215.	39.	0.18
14.40	931.	20.6	11.6	2865.	1.06	3.5	218.	22.0	53.0	214.	38.	0.18
14.55	908.	20.2	12.1	2977.	1.02	0.9	61.	22.1	53.2	209.	40.	0.19
14.70	889.	20.2	12.3	3029.	1.05	2.9	190.	22.1	53.3	205.	41.	0.20
14.85	862.	20.4	11.9	2923.	1.06	3.8	242.	22.4	53.9	203.	40.	0.20
15.00	872.	20.4	11.7	2876.	1.04	2.6	163.	22.4	53.9	201.	39.	0.20
15.15	881.	20.3	12.1	2977.	1.04	2.3	150.	22.7	54.5	203.	41.	0.20
15.30	886.	20.3	12.1	2965.	1.06	3.5	226.	22.9	55.1	204.	41.	0.20
15.45	868.	20.7	11.4	2810.	1.07	4.3	262.	23.0	55.2	200.	39.	0.20
15.60	868.	20.8	11.2	2757.	1.10	5.7	341.	22.8	54.6	200.	38.	0.19
15.75	859.	21.1	11.4	2806.	1.08	4.9	302.	23.1	55.4	197.	39.	0.20
15.90	863.	21.1	11.4	2802.	1.10	5.6	344.	23.2	55.4	198.	39.	0.20
16.05	882.	20.7	10.9	2672.	1.15	8.6	502.	23.3	55.7	203.	38.	0.19
16.20	900.	20.7	10.7	2624.	1.12	7.0	404.	23.7	56.5	207.	38.	0.18
16.35	907.	20.9	11.3	2777.	1.13	7.7	465.	23.5	56.2	209.	40.	0.19
16.50	923.	21.0	11.4	2799.	1.17	10.1	621.	23.1	55.3	212.	39.	0.19

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	946.	21.4	10.9	2676.	1.19	10.9	637.	22.7	54.2	218.	37.	0.17
16.80	957.	21.7	11.2	2752.	1.16	9.6	580.	22.7	54.3	220.	38.	0.17
16.95	948.	21.4	11.3	2789.	1.20	11.6	704.	23.5	56.1	218.	40.	0.18
17.10	916.	21.3	11.2	2764.	1.20	11.6	701.	22.1	52.9	211.	37.	0.18
17.25	878.	21.5	10.9	2681.	1.16	9.4	550.	22.3	53.3	202.	36.	0.18
17.40	888.	21.3	11.2	2762.	1.18	10.7	645.	23.5	56.1	204.	39.	0.19
17.55	898.	20.7	11.2	2746.	1.19	11.3	679.	23.5	56.2	207.	39.	0.19
17.70	879.	20.5	11.2	2751.	1.17	9.7	583.	23.4	55.9	202.	39.	0.19
17.85	884.	19.9	11.1	2731.	1.11	6.6	393.	24.0	57.3	203.	40.	0.20
18.00	894.	19.8	11.0	2715.	1.17	10.3	608.	23.8	56.9	206.	39.	0.19
18.15	871.	19.9	11.1	2740.	1.16	9.3	558.	23.1	55.3	200.	38.	0.19
18.30	878.	19.9	10.6	2608.	1.09	5.3	301.	23.2	55.3	202.	37.	0.18
18.45	894.	20.2	10.7	2633.	1.14	8.5	490.	23.7	56.5	206.	38.	0.18
18.60	895.	20.0	11.1	2718.	1.18	10.3	614.	23.6	56.2	206.	39.	0.19
18.75	904.	20.0	10.8	2660.	1.12	7.1	415.	23.2	55.4	208.	37.	0.18
18.90	918.	20.4	10.6	2617.	1.13	7.4	424.	23.2	55.4	211.	37.	0.17
19.05	923.	20.9	11.1	2721.	1.16	9.2	549.	23.7	56.6	212.	39.	0.18
19.20	936.	20.8	11.3	2771.	1.15	9.0	544.	23.9	57.1	215.	40.	0.19
19.35	964.	20.5	10.8	2663.	1.09	5.6	324.	24.1	57.5	222.	39.	0.18
19.50	945.	21.6	11.0	2703.	1.11	6.2	368.	24.4	58.2	217.	40.	0.18
19.65	921.	21.4	11.1	2741.	1.15	8.8	529.	23.4	55.9	212.	39.	0.18
19.80	890.	20.4	11.3	2783.	1.11	6.5	395.	23.3	55.8	205.	39.	0.19
19.95	877.	20.2	11.8	2894.	1.07	4.3	270.	23.9	57.2	202.	42.	0.21
20.10	897.	20.4	11.8	2913.	1.09	5.3	337.	24.0	57.5	206.	43.	0.21
20.25	903.	20.2	11.6	2850.	1.09	5.4	335.	23.8	57.1	208.	41.	0.20
20.40	872.	20.4	11.5	2820.	1.08	4.4	272.	23.5	56.3	201.	40.	0.20
20.55	880.	20.5	11.4	2808.	1.06	3.4	210.	24.4	58.3	202.	41.	0.20
20.70	888.	20.6	11.4	2799.	1.10	6.0	365.	24.5	58.6	204.	42.	0.20
20.85	873.	20.8	11.3	2778.	1.12	7.3	445.	24.0	57.4	201.	40.	0.20
21.00	878.	19.6	10.6	2614.	1.06	3.5	198.	23.7	56.4	202.	37.	0.19
21.15	897.	20.6	10.9	2670.	1.07	4.0	232.	24.3	58.0	206.	39.	0.19
21.30	908.	20.8	11.5	2837.	1.11	6.3	388.	23.5	56.3	209.	41.	0.19
21.45	915.	19.7	11.2	2761.	1.10	5.6	339.	22.9	54.9	210.	38.	0.18
21.60	936.	20.9	10.4	2555.	1.07	4.2	233.	23.4	55.6	215.	36.	0.17
21.75	944.	21.5	11.5	2830.	1.07	4.4	270.	23.2	55.7	217.	40.	0.18
21.90	944.	20.7	11.3	2791.	1.11	6.5	395.	23.4	55.9	217.	40.	0.18
22.05	902.	20.6	10.7	2633.	1.09	5.3	289.	23.9	57.0	208.	38.	0.18
22.20	901.	21.1	11.8	2893.	1.08	4.6	289.	23.6	56.6	207.	41.	0.20
22.35	897.	21.2	11.4	2811.	1.09	5.3	328.	23.2	55.7	206.	40.	0.19

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	883.	20.5	11.4	2799.	1.09	5.2	317.	23.1	55.3	203.	39.	0.19
22.65	885.	19.8	11.4	2812.	1.07	4.1	253.	24.0	57.3	204.	41.	0.20
22.80	901.	20.4	11.4	2809.	1.09	5.0	308.	24.0	57.5	207.	41.	0.20
22.95	901.	20.5	11.4	2796.	1.10	5.8	355.	23.8	56.9	207.	40.	0.19
23.10	867.	20.6	11.5	2818.	1.08	4.9	303.	24.1	57.6	199.	41.	0.21
23.25	903.	20.7	10.7	2632.	1.06	3.6	207.	24.7	58.8	208.	39.	0.19
23.40	889.	19.0	10.8	2659.	1.11	6.7	386.	29.6	70.0	204.	47.	0.23
23.55	889.	18.3	11.0	2707.	1.12	6.8	404.	35.8	84.4	204.	58.	0.28
23.70	904.	18.3	10.6	2617.	1.06	3.7	210.	35.8	84.4	208.	56.	0.27
23.85	914.	18.8	10.9	2688.	1.09	5.1	301.	37.1	87.4	210.	59.	0.28
24.00	927.	18.8	11.1	2730.	1.18	10.5	626.	38.1	89.8	213.	62.	0.29
24.15	945.	17.6	10.9	2676.	1.10	6.1	357.	38.4	90.5	217.	61.	0.28
24.30	945.	18.8	10.6	2617.	1.06	3.5	200.	39.2	92.2	217.	61.	0.28
24.45	943.	19.5	11.1	2729.	1.06	3.3	199.	39.2	92.4	217.	64.	0.29
24.60	914.	19.2	11.0	2707.	1.11	6.6	389.	39.2	92.3	210.	63.	0.30
24.75	887.	19.2	10.9	2679.	1.08	4.8	280.	39.1	92.0	204.	62.	0.31
24.90	880.	19.4	11.3	2780.	1.04	2.6	158.	39.5	93.4	202.	66.	0.32
25.05	878.	19.4	10.4	2569.	1.14	8.4	469.	38.7	91.0	202.	59.	0.29
25.20	883.	19.1	10.9	2670.	1.17	10.2	595.	38.7	91.2	203.	62.	0.30
25.35	883.	18.2	11.4	2803.	1.09	5.3	322.	37.9	89.4	203.	64.	0.31
25.50	885.	19.2	11.0	2711.	1.04	2.5	147.	37.3	87.9	204.	60.	0.30
25.65	884.	19.3	10.2	2505.	1.21	12.4	678.	37.0	87.0	203.	55.	0.27
25.80	872.	18.3	10.6	2598.	1.21	12.6	715.	36.7	86.3	200.	57.	0.28
25.95	875.	17.7	11.4	2795.	1.04	2.5	153.	36.5	86.2	201.	61.	0.30
26.10	896.	17.9	11.0	2695.	1.05	3.1	180.	36.6	86.3	206.	59.	0.29
26.25	903.	18.1	10.7	2639.	1.21	12.3	707.	36.3	85.5	208.	57.	0.28
26.40	919.	18.0	10.9	2681.	1.06	3.5	206.	36.3	85.7	211.	58.	0.28
26.55	930.	18.3	11.2	2760.	1.02	1.2	72.	37.0	87.2	214.	61.	0.28
26.70	946.	18.5	11.6	2842.	1.24	14.3	891.	38.4	90.6	217.	65.	0.30
26.85	923.	17.7	10.3	2523.	1.12	7.1	393.	38.1	89.6	212.	57.	0.27
27.00	904.	18.3	11.1	2724.	1.04	2.5	147.	38.4	90.6	208.	62.	0.30
27.15	891.	19.6	11.7	2872.	1.08	4.9	305.	38.4	90.7	205.	66.	0.32
27.30	884.	18.9	11.3	2789.	1.18	10.5	637.	38.2	90.0	203.	64.	0.31
27.45	880.	18.0	11.1	2728.	1.18	10.4	619.	38.2	90.0	202.	62.	0.31
27.60	884.	18.4	11.4	2797.	1.01	0.8	49.	37.4	88.2	203.	62.	0.31
27.75	888.	19.1	10.5	2591.	1.13	7.6	432.	37.8	88.9	204.	58.	0.29
27.90	888.	18.8	10.0	2468.	1.29	17.2	926.	38.8	91.0	204.	57.	0.28
28.05	876.	18.1	10.7	2623.	1.13	7.4	423.	39.0	91.8	202.	61.	0.30
28.20	878.	18.5	11.1	2735.	1.02	0.9	56.	39.0	92.0	202.	64.	0.32

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	881.	19.0	9.9	2430.	1.13	7.8	415.	40.0	93.8	203.	58.	0.29
28.50	886.	18.6	9.7	2390.	1.19	11.2	585.	39.6	92.8	204.	56.	0.28
28.65	935.	17.7	10.8	2666.	1.03	1.9	112.	39.0	91.7	215.	62.	0.29
28.80	1033.	17.7	11.8	2890.	1.01	0.7	46.	38.6	91.1	237.	67.	0.28
28.95	1116.	19.6	11.6	2851.	1.24	14.2	886.	38.6	91.1	257.	66.	0.26
29.10	1143.	19.5	11.8	2903.	1.05	3.2	205.	38.5	91.0	263.	67.	0.25
29.25	1172.	20.0	12.1	2987.	1.03	1.5	99.	38.1	90.1	270.	68.	0.25
29.40	1209.	21.5	12.5	3062.	1.00	0.	0.	38.0	90.0	276.	70.	0.25
29.55	1143.	20.7	9.8	2413.	1.00	0.	0.	39.6	92.9	263.	57.	0.22
29.70	1102.	19.2	11.2	2747.	1.00	0.	0.	40.0	94.3	254.	65.	0.26
29.85	1101.	21.5	13.1	3230.	1.00	0.	0.	39.0	92.6	253.	76.	0.30
30.00	1120.	22.0	9.5	2333.	1.00	0.	0.	38.0	89.0	258.	52.	0.20
30.15	1111.	20.3	11.2	2752.	1.00	0.	0.	39.1	92.0	256.	64.	0.25
30.30	1109.	19.3	12.1	2971.	1.01	0.7	48.	38.7	91.6	255.	69.	0.27
30.45	1102.	20.0	12.1	2980.	1.06	3.6	236.	39.0	92.2	254.	70.	0.27
30.60	1084.	20.0	12.4	3040.	1.15	8.6	571.	43.8	103.3	249.	80.	0.32
30.75	1071.	19.0	12.5	3063.	1.12	7.3	487.	44.1	104.0	246.	81.	0.33
30.90	1087.	19.8	12.2	2996.	1.09	5.4	351.	41.2	97.4	250.	74.	0.30
31.05	1069.	15.5	12.3	3033.	1.21	12.3	813.	40.3	95.2	246.	73.	0.30
31.20	1074.	13.2	12.5	3081.	1.18	10.7	717.	36.7	87.2	247.	68.	0.28
31.35	1097.	11.3	12.4	3041.	1.01	0.6	38.	28.7	68.5	252.	53.	0.21
31.50	1124.	10.7	12.9	3166.	1.00	0.	0.	23.3	56.4	259.	45.	0.17
31.65	1132.	10.4	12.4	3055.	1.16	9.4	628.	18.9	45.9	260.	36.	0.14
31.80	1140.	10.1	12.4	3058.	1.04	2.2	146.	13.8	34.3	262.	27.	0.10
31.95	1150.	10.3	12.9	3174.	1.01	0.5	32.	14.7	36.6	265.	29.	0.11
32.10	1130.	11.2	13.2	3242.	1.00	0.	0.	44.8	106.1	260.	87.	0.33
32.25	1110.	20.7	11.4	2806.	1.00	0.	0.	45.5	106.9	255.	76.	0.30
32.40	1098.	20.7	12.7	3113.	1.00	0.	0.	45.5	107.4	252.	84.	0.33
32.55	1096.	22.2	12.9	3162.	1.00	0.	0.	45.5	107.5	251.	86.	0.34
32.70	1103.	21.2	10.5	2573.	1.00	0.	0.	44.8	105.0	254.	68.	0.27
32.85	1104.	19.3	11.9	2922.	1.00	0.	0.	45.8	107.8	254.	80.	0.31
33.00	1096.	20.3	12.3	3019.	1.01	0.6	39.	46.0	108.4	252.	83.	0.33
33.15	1097.	21.1	12.0	2963.	1.06	3.3	212.	45.4	106.9	252.	80.	0.32
33.30	1096.	20.3	12.4	3055.	1.17	9.7	650.	46.6	109.8	252.	85.	0.34
33.45	1062.	19.5	12.3	3015.	1.01	0.3	21.	47.2	111.3	249.	85.	0.34
33.60	1081.	20.9	12.2	3002.	1.01	0.5	36.	46.2	108.9	249.	83.	0.33
33.75	1095.	20.7	12.3	3018.	1.04	2.6	173.	46.9	110.5	252.	84.	0.34
33.90	1120.	19.6	12.0	2960.	1.03	1.8	115.	47.6	112.0	258.	84.	0.33
34.05	1135.	19.1	11.9	2921.	1.01	0.6	39.	46.5	109.4	261.	81.	0.31

RUN NUMBER- 41
SEGMENT NUMBER- 3

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1166.	20.6	12.7	3122.	1.00	0.	0.	46.1	108.8	268.	86.	0.32
34.35	1153.	21.3	11.7	2873.	1.00	0.	0.	47.8	112.4	265.	82.	0.31
34.50	1129.	19.9	11.9	2930.	1.00	0.	0.	47.9	112.7	260.	83.	0.32
34.65	1115.	19.7	12.4	3038.	1.00	0.	0.	46.8	110.2	256.	85.	0.33
34.80	1110.	18.5	12.1	2969.	1.07	4.0	259.	47.4	111.6	255.	84.	0.33
34.95	1107.	16.3	12.1	2984.	1.06	3.6	236.	46.2	108.9	255.	82.	0.32
35.10	1098.	16.6	12.4	3052.	1.00	0.	0.	33.6	79.9	253.	62.	0.24
35.25	1100.	16.5	13.0	3188.	1.03	1.8	126.	33.8	80.6	253.	65.	0.26
35.40	1110.	16.1	12.1	2984.	1.07	4.0	262.	42.8	101.1	255.	76.	0.30
35.55	1082.	18.5	12.2	3004.	1.07	4.1	266.	47.3	111.4	249.	85.	0.34
35.70	1069.	20.3	12.4	3045.	1.00	0.	0.	47.7	112.4	246.	87.	0.35
35.85	1076.	21.1	9.9	2438.	1.01	0.4	22.	48.1	112.6	248.	69.	0.28
36.00	1081.	20.6	10.3	2532.	1.00	0.	0.	48.2	112.8	249.	72.	0.29
36.15	1091.	19.3	10.7	2642.	1.00	0.	0.	47.5	111.3	251.	74.	0.30
36.30	1113.	20.6	9.9	2436.	1.00	0.	0.	47.5	111.1	256.	68.	0.27
36.45	1148.	22.3	8.8	2162.	1.00	0.	0.	46.3	107.4	264.	59.	0.22
36.60	1167.	20.9	9.1	2246.	1.00	0.	0.	46.2	108.0	268.	61.	0.23
36.75	1163.	19.4	10.6	2617.	1.00	0.	0.	46.5	109.0	267.	72.	0.27
36.90	1178.	22.4	11.7	2879.	1.00	0.	0.	46.6	109.7	271.	80.	0.29
37.05	1185.	22.6	7.5	1851.	1.00	0.	0.	46.5	108.2	272.	51.	0.19
37.20	1148.	21.0	9.5	2325.	1.00	0.	0.	46.4	108.4	264.	64.	0.24

LOCATION- SUNNY POINT
DATE OF TEST- 1[illegible] 4 78
RUN NUMBER- 42
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	8.	1.1	-0.0	-0.	1.00	0.	0.	8.3	19.1	2.	-0.	0.00
0.15	128.	1.4	0.4	108.	1.00	0.	0.	8.4	19.3	29.	1.	0.02
0.30	64.	1.7	0.7	163.	1.00	0.	0.	8.5	19.5	15.	1.	0.05
0.45	19.	2.3	0.7	181.	1.00	0.	0.	8.5	19.7	4.	1.	0.21
0.60	104.	2.3	0.8	188.	1.00	0.	0.	8.6	20.0	24.	1.	0.04
0.75	113.	2.5	0.7	163.	1.00	0.	0.	8.7	20.2	26.	1.	0.03
0.90	11.	2.7	0.9	214.	1.00	0.	0.	8.8	20.4	3.	1.	0.43
1.05	110.	3.0	1.3	330.	1.00	0.	0.	8.9	20.6	25.	2.	0.07
1.20	115.	3.0	1.3	312.	1.00	0.	0.	9.0	20.7	26.	2.	0.06
1.35	84.	2.9	1.6	399.	1.00	0.	0.	9.0	20.8	19.	2.	0.11
1.50	62.	2.9	2.0	498.	1.00	0.	0.	9.1	21.0	14.	3.	0.19
1.65	111.	3.0	2.0	499.	1.00	0.	0.	9.1	21.1	26.	3.	0.10
1.80	78.	3.0	1.6	401.	1.00	0.	0.	9.2	21.2	18.	2.	0.12
1.95	62.	3.0	1.1	274.	1.00	0.	0.	9.2	21.2	14.	1.	0.10
2.10	99.	3.1	0.9	214.	1.00	0.	0.	9.2	21.3	23.	1.	0.05
2.25	131.	3.1	1.0	241.	1.01	0.3	2.	9.2	21.3	30.	1.	0.04
2.40	39.	3.2	0.8	203.	1.01	0.3	1.	9.2	21.3	9.	1.	0.12
2.55	107.	3.2	0.6	136.	1.01	0.3	1.	9.2	21.3	25.	1.	0.03
2.70	130.	3.1	0.4	95.	1.01	0.3	1.	9.2	21.3	30.	1.	0.02
2.85	110.	4.1	0.8	193.	1.01	0.3	1.	9.2	21.3	25.	1.	0.04
3.00	160.	4.4	0.6	145.	1.00	0.	0.	9.2	21.3	37.	1.	0.02
3.15	181.	5.2	0.7	182.	1.00	0.	0.	9.5	21.8	42.	1.	0.02
3.30	193.	6.7	0.7	160.	1.00	0.	0.	9.8	22.6	44.	1.	0.02
3.45	125.	8.5	0.5	119.	1.00	0.	0.	11.1	25.7	29.	1.	0.03
3.60	120.	10.0	0.4	106.	1.00	0.	0.	13.6	31.4	28.	1.	0.03
3.75	149.	12.8	0.4	100.	1.00	0.	0.	15.0	34.5	34.	1.	0.03
3.90	151.	14.7	0.4	102.	1.00	0.	0.	15.6	35.9	35.	1.	0.03
4.05	152.	14.9	0.3	77.	1.00	0.	0.	16.0	36.8	35.	1.	0.02
4.20	180.	15.1	0.6	151.	1.00	0.	0.	16.3	37.6	41.	1.	0.03
4.35	252.	16.4	2.3	575.	1.00	0.	0.	17.0	39.3	58.	6.	0.10
4.50	346.	18.1	3.9	957.	1.00	0.	0.	17.7	41.0	79.	10.	0.12
4.65	453.	18.0	6.8	1674.	1.00	0.	0.	17.2	40.5	104.	17.	0.16
4.80	509.	17.4	6.4	1574.	1.01	0.3	10.	15.1	35.6	117.	14.	0.12

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	514.	17.0	11.3	2782.	1.01	0.4	27.	13.2	32.3	118.	23.	0.19
5.10	510.	16.6	10.5	2571.	1.01	0.8	46.	13.2	32.2	117.	21.	0.18
5.25	518.	16.3	10.9	2671.	1.02	1.2	68.	13.6	33.1	119.	22.	0.19
5.40	508.	16.0	11.4	2794.	1.02	1.3	78.	13.9	34.1	117.	24.	0.21
5.55	520.	16.3	10.2	2506.	1.02	1.3	73.	14.8	35.7	120.	23.	0.19
5.70	521.	16.6	10.6	2597.	1.02	1.3	75.	15.9	38.5	120.	25.	0.21
5.85	521.	16.8	10.4	2567.	1.02	1.3	73.	17.0	40.8	120.	27.	0.22
6.00	520.	17.1	9.7	2397.	1.02	1.2	61.	17.3	41.4	120.	25.	0.21
6.15	511.	17.9	8.5	2090.	1.02	1.1	50.	18.0	42.6	118.	23.	0.19
6.30	497.	20.2	6.9	1689.	1.02	1.1	40.	19.9	46.6	114.	20.	0.17
6.45	490.	22.4	5.5	1344.	1.02	1.1	33.	21.7	50.5	113.	17.	0.15
6.60	528.	22.4	5.1	1266.	1.02	1.2	33.	22.4	52.2	121.	17.	0.14
6.75	599.	22.2	5.2	1280.	1.02	1.4	40.	23.2	53.9	138.	17.	0.13
6.90	562.	21.3	5.7	1397.	1.06	3.3	100.	24.4	56.8	129.	20.	0.16
7.05	621.	27.0	6.0	1467.	1.10	5.7	181.	26.1	60.7	143.	23.	0.16
7.20	639.	29.6	6.2	1518.	1.09	5.5	183.	27.9	65.1	147.	25.	0.17
7.35	635.	31.8	5.8	1427.	1.11	6.4	199.	29.8	69.3	146.	25.	0.17
7.50	620.	33.4	5.4	1322.	1.16	9.5	273.	31.1	72.3	143.	24.	0.17
7.65	613.	35.8	5.0	1233.	1.16	9.6	258.	32.2	74.7	141.	23.	0.17
7.80	590.	36.9	4.9	1194.	1.16	9.1	238.	32.2	74.7	136.	23.	0.17
7.95	591.	37.9	4.9	1193.	1.18	10.8	282.	32.2	74.7	136.	23.	0.17
8.10	584.	39.0	5.2	1270.	1.23	13.4	370.	32.1	74.4	134.	24.	0.18
8.25	701.	38.4	5.5	1347.	1.20	12.0	354.	31.8	73.8	161.	25.	0.16
8.40	699.	32.7	7.9	1953.	1.20	11.9	506.	24.7	58.0	161.	29.	0.18
8.55	686.	30.6	8.2	2006.	1.20	11.8	517.	22.8	53.7	158.	27.	0.17
8.70	686.	30.2	8.3	2038.	1.26	15.1	674.	22.7	53.5	158.	28.	0.18
8.85	705.	29.2	8.4	2061.	1.28	16.4	739.	23.3	54.9	162.	29.	0.18
9.00	693.	29.1	7.6	1858.	1.19	11.1	453.	24.8	58.1	159.	27.	0.17
9.15	710.	33.1	6.8	1670.	1.19	11.2	410.	26.9	62.7	163.	27.	0.16
9.30	797.	37.3	6.7	1655.	1.21	12.3	445.	30.4	70.9	183.	30.	0.16
9.45	850.	39.1	6.7	1652.	1.21	12.6	454.	34.5	80.2	195.	34.	0.17
9.60	879.	40.0	7.2	1781.	1.24	14.0	546.	33.9	79.1	202.	36.	0.18
9.75	893.	39.7	7.5	1838.	1.25	14.6	585.	33.5	78.3	205.	36.	0.18
9.90	897.	39.2	7.6	1870.	1.25	14.7	600.	34.1	79.5	206.	38.	0.18
10.05	885.	38.6	7.6	1859.	1.25	15.0	608.	34.1	79.6	204.	38.	0.18
10.20	874.	38.0	6.8	1663.	1.27	15.9	578.	32.4	75.3	201.	32.	0.16
10.35	899.	37.6	6.6	1624.	1.29	16.8	595.	33.2	77.2	207.	32.	0.15
10.50	916.	37.9	7.1	1740.	1.29	16.9	641.	34.1	79.3	211.	35.	0.17
10.65	958.	40.5	7.1	1742.	1.28	16.2	617.	34.7	80.7	220.	36.	0.16

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1089.	42.6	6.4	1586.	1.28	16.2	562.	35.8	83.3	250.	33.	0.13
10.95	1210.	43.5	6.4	1573.	1.33	19.6	672.	37.8	87.9	278.	35.	0.13
11.10	1215.	44.3	7.9	1935.	1.30	17.4	738.	39.1	91.1	280.	45.	0.16
11.25	1227.	44.4	7.6	1879.	1.31	18.2	748.	36.9	86.0	282.	41.	0.15
11.40	1291.	43.0	7.6	1858.	1.34	20.3	823.	38.9	90.6	297.	43.	0.14
11.55	1285.	41.0	7.7	1891.	1.32	19.0	784.	37.1	86.5	295.	41.	0.14
11.70	1299.	41.3	7.4	1828.	1.33	19.2	765.	36.9	86.1	299.	40.	0.13
11.85	1322.	42.3	6.8	1667.	1.36	20.9	762.	36.8	85.7	304.	36.	0.12
12.00	1339.	40.3	7.6	1878.	1.37	21.7	890.	36.7	85.6	308.	41.	0.13
12.15	1341.	38.7	8.0	1963.	1.34	19.9	853.	36.0	84.0	308.	42.	0.14
12.30	1407.	38.9	7.0	1709.	1.36	21.4	798.	35.8	83.3	324.	36.	0.11
12.45	1417.	40.8	7.5	1851.	1.38	22.3	901.	38.8	90.4	326.	42.	0.13
12.60	1421.	38.3	8.1	2001.	1.35	20.8	911.	36.6	85.4	327.	43.	0.13
12.75	1457.	35.7	8.5	2092.	1.34	20.0	912.	34.9	81.6	335.	43.	0.13
12.90	1474.	38.7	8.5	2101.	1.33	19.5	897.	34.9	81.7	339.	44.	0.13
13.05	1441.	36.0	10.2	2497.	1.33	19.2	1050.	33.5	78.9	332.	50.	0.15
13.20	1346.	34.3	10.1	2475.	1.33	19.2	1035.	31.0	73.1	310.	46.	0.15
13.35	1344.	37.7	9.4	2322.	1.34	19.8	1007.	31.0	72.9	309.	43.	0.14
13.50	1333.	36.2	9.2	2256.	1.36	20.9	1031.	32.1	75.3	307.	43.	0.14
13.65	1281.	34.8	10.7	2619.	1.33	19.1	1095.	30.5	72.1	295.	48.	0.16
13.80	1254.	36.6	10.0	2456.	1.27	15.9	850.	26.2	62.0	288.	39.	0.13
13.95	1259.	40.0	9.3	2293.	1.24	14.1	706.	28.9	68.0	289.	40.	0.14
14.10	1265.	38.3	9.8	2407.	1.29	17.2	907.	28.2	66.4	291.	41.	0.14
14.25	1245.	37.5	10.8	2649.	1.25	14.4	835.	26.8	63.6	286.	43.	0.15
14.40	1246.	42.6	10.8	2651.	1.19	11.1	642.	27.2	64.6	287.	44.	0.15
14.55	1238.	40.4	9.4	2309.	1.28	16.3	823.	26.0	61.5	285.	36.	0.13
14.70	1223.	38.7	10.5	2594.	1.29	16.9	959.	25.8	61.4	281.	41.	0.14
14.85	1224.	37.7	10.9	2687.	1.22	12.8	749.	25.9	61.6	281.	42.	0.15
15.00	1241.	40.3	10.1	2496.	1.21	12.6	687.	26.1	61.8	286.	39.	0.14
15.15	1224.	37.7	10.7	2637.	1.28	16.4	944.	26.4	62.7	282.	42.	0.15
15.30	1220.	38.3	11.1	2721.	1.19	11.2	668.	26.6	63.3	281.	44.	0.16
15.45	1231.	40.5	10.9	2669.	1.19	10.9	638.	25.5	60.6	283.	41.	0.15
15.60	1231.	37.7	10.4	2554.	1.31	18.2	1017.	24.8	59.0	283.	38.	0.14
15.75	1208.	37.7	11.5	2828.	1.24	14.3	885.	24.9	59.5	278.	43.	0.15
15.90	1210.	41.1	12.1	2966.	1.16	9.2	598.	28.0	66.9	278.	50.	0.18
16.05	1223.	39.1	8.7	2145.	1.12	6.9	322.	29.1	68.3	281.	37.	0.13
16.20	1205.	35.0	9.2	2263.	1.08	4.4	219.	27.3	64.2	277.	37.	0.13
16.35	1186.	36.4	10.0	2459.	1.03	2.0	108.	24.5	58.0	273.	36.	0.13
16.50	1193.	38.6	10.2	2514.	1.01	0.3	18.	24.9	59.0	274.	38.	0.14

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1214.	36.3	10.3	2536.	1.00	0.	0.	24.5	58.2	279.	37.	0.13
16.80	1163.	31.8	12.6	3095.	1.00	0.	0.	21.6	52.3	267.	41.	0.15
16.95	1144.	36.0	13.6	3341.	1.00	0.	0.	21.9	53.3	263.	45.	0.17
17.10	1211.	33.4	9.6	2354.	1.00	0.	0.	21.9	51.9	278.	31.	0.11
17.25	1171.	32.2	12.3	3020.	1.00	0.	0.	21.7	52.3	269.	40.	0.15
17.40	1187.	32.4	13.0	3187.	1.00	0.	0.	21.5	52.3	273.	42.	0.15
17.55	1203.	32.4	12.7	3116.	1.04	2.6	178.	21.7	52.6	277.	42.	0.15
17.70	1199.	30.9	13.4	3286.	1.10	6.1	439.	21.9	53.2	276.	44.	0.16
17.85	1196.	31.2	13.6	3351.	1.02	1.4	102.	21.8	53.2	275.	45.	0.16
18.00	1206.	31.5	13.0	3203.	1.03	1.9	131.	21.7	52.7	277.	43.	0.15
18.15	1208.	30.7	12.9	3172.	1.08	4.8	331.	22.0	53.2	278.	43.	0.15
18.30	1202.	29.4	13.5	3325.	1.12	6.8	495.	22.5	54.8	276.	46.	0.17
18.45	1212.	29.8	13.2	3250.	1.08	4.5	320.	23.3	56.4	279.	46.	0.17
18.60	1240.	30.1	12.7	3134.	1.12	7.3	497.	24.4	58.7	285.	47.	0.16
18.75	1245.	30.5	12.9	3169.	1.10	6.1	426.	25.0	60.3	286.	49.	0.17
18.90	1235.	31.3	12.6	3108.	1.05	3.0	206.	25.5	61.3	284.	48.	0.17
19.05	1338.	32.2	11.9	2938.	1.15	9.0	575.	26.2	62.6	308.	47.	0.15
19.20	1321.	31.8	12.0	2956.	1.21	12.2	785.	26.8	64.2	304.	48.	0.16
19.35	1283.	30.5	12.0	2951.	1.12	7.2	464.	26.5	63.4	295.	47.	0.16
19.50	1288.	31.8	12.0	2942.	1.20	11.7	753.	25.9	61.9	296.	46.	0.16
19.65	1300.	33.1	12.0	2958.	1.23	13.7	883.	25.5	61.1	299.	46.	0.15
19.80	1269.	31.4	12.8	3151.	1.18	10.4	717.	25.3	61.0	292.	49.	0.17
19.95	1235.	32.7	12.2	3010.	1.19	11.4	748.	25.4	60.9	284.	47.	0.16
20.10	1242.	36.4	11.7	2869.	1.16	9.2	579.	27.3	65.0	286.	47.	0.17
20.25	1247.	35.5	10.6	2615.	1.13	7.9	453.	26.9	63.9	287.	42.	0.15
20.40	1225.	34.4	10.9	2691.	1.13	7.5	440.	24.6	58.6	282.	40.	0.14
20.55	1199.	38.2	11.1	2732.	1.12	6.8	406.	25.9	61.6	276.	43.	0.15
20.70	1233.	37.7	10.4	2554.	1.15	8.7	486.	26.3	62.5	284.	40.	0.14
20.85	1225.	36.6	11.3	2779.	1.12	7.0	426.	24.1	57.6	282.	41.	0.14
21.00	1203.	35.2	11.1	2728.	1.09	5.2	309.	23.3	55.6	277.	38.	0.14
21.15	1209.	37.0	9.8	2416.	1.08	4.5	240.	27.5	64.8	278.	40.	0.14
21.30	1225.	37.3	8.7	2141.	1.04	2.6	119.	26.8	62.9	282.	34.	0.12
21.45	1213.	36.3	10.1	2477.	1.01	0.4	22.	25.4	60.2	279.	38.	0.14
21.60	1196.	38.1	10.5	2586.	1.00	0.	0.	24.5	58.4	275.	38.	0.14
21.75	1220.	38.4	8.5	2085.	1.00	0.	0.	25.3	59.6	281.	31.	0.11
21.90	1228.	35.8	9.2	2255.	1.00	0.	0.	24.5	57.8	282.	33.	0.12
22.05	1212.	36.8	11.9	2918.	1.00	0.	0.	22.3	53.7	279.	40.	0.14
22.20	1224.	42.2	11.7	2870.	1.00	0.	0.	26.3	62.9	281.	46.	0.16
22.35	1214.	38.0	9.4	2311.	1.00	0.	0.	24.8	58.6	279.	34.	0.12

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1189.	34.0	12.7	3123.	1.00	0.	0.	22.1	53.4	274.	42.	0.15
22.65	1181.	35.5	13.3	3265.	1.04	2.2	158.	20.7	50.4	272.	42.	0.15
22.80	1197.	33.7	12.7	3122.	1.09	5.3	363.	20.6	49.9	275.	40.	0.14
22.95	1168.	32.4	13.9	3407.	1.15	9.0	668.	20.4	50.0	269.	43.	0.16
23.10	1177.	34.7	13.7	3369.	1.05	2.9	212.	20.1	49.4	271.	42.	0.16
23.25	1170.	34.4	12.8	3141.	1.13	7.5	517.	20.0	48.7	269.	39.	0.14
23.40	1170.	32.9	13.0	3204.	1.17	10.1	708.	20.2	49.3	269.	40.	0.15
23.55	1164.	32.2	13.8	3387.	1.06	3.5	256.	20.4	50.0	268.	43.	0.16
23.70	1152.	32.8	13.9	3409.	1.04	2.3	169.	20.4	50.1	265.	43.	0.16
23.85	1172.	30.9	13.1	3219.	1.08	4.9	343.	20.5	49.9	269.	41.	0.15
24.00	1171.	30.9	13.6	3340.	1.03	1.7	126.	20.5	50.2	269.	42.	0.16
24.15	1181.	32.2	13.6	3342.	1.02	1.5	107.	19.8	48.5	272.	41.	0.15
24.30	1201.	31.6	12.7	3126.	1.05	2.8	192.	21.2	51.5	276.	41.	0.15
24.45	1201.	30.6	13.1	3222.	1.11	6.6	467.	22.3	54.1	276.	44.	0.16
24.60	1173.	30.1	12.8	3146.	1.11	6.6	451.	22.5	54.6	270.	44.	0.16
24.75	1210.	30.5	12.1	2966.	1.12	7.0	454.	23.1	55.6	278.	42.	0.15
24.90	1233.	32.4	11.8	2904.	1.11	6.7	422.	23.7	57.0	284.	42.	0.15
25.05	1211.	28.6	12.7	3120.	1.11	6.3	429.	22.1	53.5	279.	42.	0.15
25.20	1226.	26.2	12.2	3009.	1.12	7.1	466.	21.2	51.3	282.	39.	0.14
25.35	1264.	29.8	11.2	2754.	1.18	10.6	638.	23.1	55.3	291.	39.	0.13
25.50	1262.	30.5	11.9	2919.	1.21	12.8	794.	24.3	58.3	290.	43.	0.15
25.65	1256.	27.2	11.0	2697.	1.17	9.8	575.	22.2	53.0	289.	36.	0.13
25.80	1277.	28.5	10.2	2508.	1.21	12.4	677.	23.3	55.3	294.	35.	0.12
25.95	1315.	31.5	8.2	2016.	1.13	7.4	325.	29.1	68.3	302.	35.	0.12
26.10	1288.	29.0	9.5	2341.	1.00	0.	0.	27.4	64.5	296.	38.	0.13
26.25	1240.	30.3	10.4	2568.	1.00	0.	0.	22.5	53.5	285.	35.	0.12
26.40	1223.	35.8	9.8	2404.	1.01	0.7	39.	28.8	66.0	281.	40.	0.14
26.55	1239.	31.9	9.6	2362.	1.00	0.	0.	24.5	58.0	285.	35.	0.12
26.70	1203.	31.1	11.7	2881.	1.01	0.7	42.	21.0	50.5	277.	37.	0.13
26.85	1206.	34.5	10.6	2612.	1.02	1.2	71.	19.9	47.7	277.	31.	0.11
27.00	1215.	35.8	9.1	2242.	1.04	2.5	124.	22.1	52.2	280.	30.	0.11
27.15	1225.	35.3	11.9	2922.	1.01	0.6	41.	22.6	54.4	282.	40.	0.14
27.30	1203.	36.1	12.7	3126.	1.01	0.6	40.	21.9	53.0	277.	42.	0.15
27.45	1224.	35.5	13.3	3275.	1.03	2.0	143.	21.1	51.5	281.	43.	0.15
27.60	1207.	33.2	14.0	3454.	1.08	4.6	348.	20.2	49.6	278.	44.	0.16
27.75	1206.	32.8	14.8	3635.	1.06	3.6	286.	19.3	47.9	277.	44.	0.16
27.90	1197.	33.9	14.6	3589.	1.06	3.6	278.	18.9	46.9	275.	43.	0.16
28.05	1190.	32.1	14.7	3626.	1.05	2.8	222.	18.8	46.7	274.	43.	0.16
28.20	1187.	31.7	14.9	3658.	1.02	1.2	99.	18.8	46.8	273.	43.	0.16

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SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1193.	31.9	14.7	3624.	1.02	1.4	108.	18.7	46.5	274.	43.	0.16
28.50	1196.	32.1	14.4	3550.	1.03	1.8	136.	18.6	46.1	275.	41.	0.15
28.65	1181.	32.1	14.6	3599.	1.00	0.	0.	18.5	46.6	272.	42.	0.15
28.80	1164.	32.1	14.6	35 6.	1.00	0.	0.	18.4	45.8	268.	42.	0.16
28.95	1163.	31.8	14.3	3513.	1.00	0.	0.	18.6	46.0	267.	41.	0.15
29.10	1165.	31.6	14.5	3565.	1.00	0.	0.	18.8	46.6	268.	42.	0.16
29.25	1150.	31.4	14.5	3554.	1.00	0.	0.	18.8	46.7	264.	42.	0.16
29.40	1159.	31.7	14.0	3433.	1.01	0.4	34.	19.0	46.8	266.	41.	0.15
29.55	1159.	32.3	13.9	3423.	1.02	1.2	92.	19.2	47.3	267.	41.	0.15
29.70	1144.	31.4	14.3	3505.	1.03	1.9	144.	18.8	46.6	263.	41.	0.16
29.85	1154.	30.5	13.8	3398.	1.00	0.	0.	18.4	45.5	265.	39.	0.15
30.00	1169.	31.8	12.5	3074.	1.00	0.	0.	18.8	45.9	269.	36.	0.13
30.15	1168.	30.7	14.1	3461.	1.00	0.	0.	19.4	47.9	269.	42.	0.16
30.30	1158.	31.0	13.9	3431.	1.01	0.6	42.	20.0	49.3	266.	43.	0.16
30.45	1177.	31.0	13.3	3262.	1.04	2.2	153.	19.9	48.5	271.	40.	0.15
30.60	1174.	30.3	13.5	3309.	1.07	3.8	278.	19.6	48.0	270.	40.	0.15
30.75	1172.	30.3	13.6	3340.	1.06	3.3	241.	20.0	49.1	270.	42.	0.15
30.90	1184.	31.1	13.6	3333.	1.05	2.8	201.	20.5	50.2	272.	42.	0.16
31.05	1197.	30.9	13.0	3196.	1.10	6.2	430.	21.2	51.5	275.	42.	0.15
31.20	1197.	30.0	13.3	3281.	1.13	7.8	557.	21.8	53.2	275.	44.	0.16
31.35	1205.	29.3	13.5	3322.	1.08	4.4	321.	21.6	52.6	277.	44.	0.16
31.50	1236.	30.3	12.9	3173.	1.09	5.5	380.	22.0	53.3	284.	43.	0.15
31.65	1231.	31.0	12.8	3140.	1.13	7.5	517.	23.5	56.8	283.	45.	0.16
31.80	1201.	29.6	13.5	3326.	1.05	2.9	214.	22.7	55.2	276.	47.	0.17
31.95	1234.	29.3	13.5	3330.	1.04	2.4	173.	23.3	56.6	284.	48.	0.17
32.10	1255.	30.4	13.3	3260.	1.06	3.5	253.	24.3	58.8	289.	49.	0.17
32.25	1255.	29.5	13.3	3261.	1.03	1.9	139.	25.2	60.8	289.	50.	0.17
32.40	1256.	29.0	12.9	3181.	1.03	1.8	125.	25.5	61.5	289.	50.	0.17
32.55	1288.	31.2	12.2	2991.	1.03	1.6	108.	25.5	61.2	296.	46.	0.16
32.70	1267.	32.0	12.4	3052.	1.03	1.5	102.	26.3	63.1	291.	49.	0.17
32.85	1249.	31.7	12.3	3033.	1.03	1.5	102.	26.1	62.6	287.	48.	0.17
33.00	1237.	33.3	12.0	2949.	1.03	1.5	100.	25.9	61.9	285.	46.	0.16
33.15	1231.	35.3	11.8	2914.	1.07	4.2	264.	27.3	65.1	283.	48.	0.17
33.30	1228.	34.5	11.7	2876.	1.10	5.9	368.	28.1	66.9	282.	49.	0.17
33.45	1228.	36.8	11.3	2781.	1.09	5.2	314.	27.6	65.6	282.	46.	0.16
33.60	1228.	41.0	10.7	2633.	1.09	5.0	288.	29.4	69.7	282.	46.	0.16
33.75	1224.	39.5	10.2	2504.	1.10	5.9	322.	29.3	69.3	281.	44.	0.16
33.90	1216.	38.0	10.9	2671.	1.09	5.0	292.	27.4	65.0	280.	44.	0.16
34.05	1217.	40.6	10.9	2690.	1.09	5.1	297.	26.3	62.6	280.	43.	0.15

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1211.	40.5	11.0	2696.	1.19	5.8	343.	26.9	64.9	279.	44.	0.16
34.35	1205.	39.4	11.2	2759.	1.15	6.8	530.	27.3	65.0	277.	46.	0.16
34.50	1207.	40.2	11.2	2756.	1.19	11.3	678.	26.6	63.2	278.	44.	0.16
34.65	1214.	41.0	10.9	2682.	1.21	12.6	738.	26.4	62.8	279.	43.	0.15
34.80	1203.	39.9	10.7	2633.	1.24	13.9	802.	28.2	66.8	277.	45.	0.16
34.95	1196.	38.5	10.9	2672.	1.19	11.2	657.	28.9	68.5	275.	46.	0.17
35.10	1202.	40.4	10.5	2586.	1.12	6.8	387.	27.8	65.7	276.	43.	0.16
35.25	1210.	39.7	10.4	2564.	1.21	12.6	705.	28.8	68.0	278.	44.	0.16
35.40	1200.	39.5	10.3	2530.	1.27	15.9	882.	31.7	74.7	276.	48.	0.17
35.55	1202.	40.7	10.1	2476.	1.19	11.3	613.	30.1	71.1	276.	45.	0.16
35.70	1218.	41.6	9.9	2438.	1.18	10.5	561.	28.3	66.9	280.	41.	0.15
35.85	1205.	39.8	9.9	2423.	1.30	17.8	943.	30.1	70.8	277.	44.	0.16
36.00	1170.	38.8	10.2	2506.	1.21	12.4	680.	31.0	73.2	269.	47.	0.17
36.15	1152.	42.4	10.0	2458.	1.19	11.1	598.	29.8	70.2	265.	44.	0.17
36.30	1197.	41.2	9.6	2367.	1.23	13.5	698.	32.0	75.4	275.	45.	0.16
36.45	1191.	38.6	9.8	2413.	1.28	16.6	875.	32.8	77.1	274.	47.	0.17
36.60	1144.	38.9	9.6	2353.	1.23	13.4	688.	31.0	72.9	263.	44.	0.17
36.75	1210.	40.9	9.1	2240.	1.23	13.4	657.	30.7	72.0	278.	41.	0.15
36.90	1217.	39.3	8.8	2175.	1.29	16.9	802.	32.3	75.8	280.	42.	0.15
37.05	1184.	36.8	8.7	2135.	1.30	17.4	810.	32.6	76.3	272.	41.	0.15
37.20	1255.	38.4	8.7	2127.	1.23	13.7	639.	31.7	74.3	289.	40.	0.14
37.35	1259.	38.8	8.2	2021.	1.23	13.4	590.	35.6	83.2	290.	43.	0.15
37.50	1249.	38.4	8.7	2130.	1.33	19.2	894.	34.3	80.3	287.	43.	0.15
37.65	1261.	38.9	8.9	2192.	1.27	15.7	750.	32.6	76.4	290.	43.	0.15
37.80	1320.	40.4	8.2	2018.	1.20	11.5	508.	35.5	82.9	304.	42.	0.14
37.95	1319.	38.1	7.7	1901.	1.25	14.7	612.	34.2	79.9	303.	39.	0.13
38.10	1296.	35.5	8.0	1976.	1.32	18.6	803.	32.3	75.5	298.	38.	0.13
38.25	1403.	37.9	8.7	2129.	1.26	15.3	711.	32.5	76.2	323.	41.	0.13
38.40	1404.	36.9	8.3	2047.	1.18	10.8	483.	32.5	76.1	323.	39.	0.12
38.55	1398.	34.0	7.9	1940.	1.30	17.9	760.	31.4	73.4	322.	36.	0.11
38.70	1399.	33.7	8.3	2036.	1.33	19.1	851.	30.3	70.9	322.	37.	0.11
38.85	1401.	39.1	8.2	2016.	1.25	14.5	639.	33.1	77.4	322.	40.	0.12
39.00	1381.	35.4	8.3	2042.	1.31	18.5	824.	33.7	78.8	318.	41.	0.13
39.15	1300.	34.8	8.6	2122.	1.26	15.4	712.	31.6	74.0	299.	40.	0.13
39.30	1237.	39.6	8.3	2031.	1.19	11.2	498.	32.2	75.4	284.	39.	0.14
39.45	1251.	39.5	8.7	2140.	1.29	16.9	789.	33.5	78.6	288.	43.	0.15
39.60	1240.	37.7	9.3	2276.	1.29	17.1	851.	31.4	73.8	285.	43.	0.15
39.75	1226.	41.1	9.2	2260.	1.25	14.9	737.	31.2	73.4	282.	42.	0.15
39.90	1224.	42.7	8.7	2136.	1.28	16.3	762.	32.0	74.9	282.	41.	0.14

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1226.	41.5	8.8	2175.	1.27	15.8	750.	31.4	73.6	282.	41.	0.14
40.20	1217.	42.2	8.1	1996.	1.22	13.1	573.	30.6	71.5	280.	36.	0.13
40.35	1221.	44.5	8.4	2054.	1.26	15.1	679.	30.1	70.6	281.	37.	0.13
40.50	1235.	43.0	8.6	2113.	1.31	18.0	829.	29.8	69.8	284.	37.	0.13
40.65	1194.	39.8	9.4	2323.	1.25	14.5	734.	30.0	70.7	275.	42.	0.15
40.80	1126.	39.9	9.7	2394.	1.19	11.0	575.	28.8	67.9	259.	41.	0.16
40.95	1003.	32.9	10.1	2474.	1.18	10.5	567.	26.5	62.6	231.	39.	0.17
41.10	927.	29.7	11.9	2921.	1.21	12.2	776.	24.3	58.3	213.	43.	0.20
41.25	852.	27.9	12.6	3092.	1.11	6.7	452.	23.0	55.6	196.	44.	0.22
41.40	739.	28.3	11.8	2906.	1.07	3.9	245.	22.0	52.9	170.	39.	0.23
41.55	751.	23.7	11.9	2919.	1.06	3.6	230.	21.8	52.6	173.	39.	0.23
41.70	727.	23.6	12.6	3103.	1.06	3.3	226.	21.0	50.9	167.	40.	0.24
41.85	611.	23.1	13.4	3286.	1.06	3.3	238.	20.0	48.8	140.	41.	0.29
42.00	641.	22.0	12.2	3007.	1.06	3.5	230.	19.2	46.7	147.	36.	0.24
42.15	598.	21.1	13.2	3244.	1.02	1.2	87.	18.6	45.7	137.	37.	0.27
42.30	551.	20.5	13.2	3257.	1.02	1.0	69.	17.9	44.0	127.	36.	0.29
42.45	540.	19.7	13.1	3215.	1.02	1.0	69.	17.5	43.1	124.	35.	0.28
42.60	532.	18.9	12.3	3032.	1.04	2.1	137.	16.8	41.8	122.	31.	0.26
42.75	520.	18.9	12.5	3085.	1.03	1.5	104.	16.4	40.3	120.	31.	0.26
42.90	525.	19.3	11.3	2771.	1.02	1.1	69.	16.7	40.4	121.	28.	0.23
43.05	538.	18.8	11.8	2891.	1.03	1.7	107.	16.5	40.1	124.	29.	0.24
43.20	545.	18.3	12.5	3065.	1.03	1.8	118.	15.6	38.5	125.	30.	0.24
43.35	546.	18.2	12.2	2990.	1.02	1.3	83.	14.9	36.7	126.	26.	0.21
43.50	544.	19.1	11.4	2799.	1.02	1.3	77.	13.6	33.5	125.	24.	0.19
43.65	543.	18.4	12.0	2958.	1.02	1.2	81.	14.5	35.6	125.	27.	0.21
43.80	542.	17.8	12.8	3146.	1.02	1.2	85.	13.5	33.6	125.	27.	0.21
43.95	543.	18.1	11.5	2836.	1.02	1.2	75.	13.7	33.6	125.	24.	0.19
44.10	545.	18.2	11.9	2932.	1.02	1.2	77.	13.7	33.9	125.	25.	0.20
44.25	546.	18.2	12.8	3157.	1.02	1.2	81.	14.1	35.0	126.	28.	0.22
44.40	538.	18.2	12.2	2999.	1.02	1.1	75.	14.4	35.6	124.	27.	0.22
44.55	467.	18.1	11.4	2804.	1.02	1.1	69.	14.3	35.0	107.	25.	0.23
44.70	446.	17.3	11.4	2805.	1.02	1.1	67.	14.1	34.5	103.	24.	0.24
44.85	437.	16.1	11.4	2796.	1.02	1.1	65.	13.5	33.2	101.	23.	0.23
45.00	433.	15.5	10.4	2559.	1.02	1.0	58.	14.6	35.3	100.	23.	0.23
45.15	427.	15.3	10.8	2660.	1.02	1.0	59.	16.2	39.2	98.	26.	0.27
45.30	427.	15.2	11.3	2787.	1.02	1.0	60.	14.9	36.3	98.	26.	0.26
45.45	420.	15.7	10.7	2631.	1.02	1.0	55.	15.4	37.4	97.	25.	0.26
45.60	417.	16.3	10.6	2612.	1.02	0.9	53.	15.4	37.3	96.	25.	0.26
45.75	428.	16.5	11.0	2715.	1.02	0.9	55.	14.9	36.4	98.	25.	0.25

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	425.	16.6	11.3	2782.	1.02	0.9	57.	14.9	36.4	98.	26.	0.26
46.05	395.	16.6	10.7	2631.	1.02	1.0	55.	15.1	36.7	91.	24.	0.27
46.20	409.	16.8	11.1	2718.	1.02	1.0	58.	15.3	37.2	94.	26.	0.27
46.35	414.	16.9	11.5	2834.	1.02	1.0	61.	14.9	36.5	95.	26.	0.28
46.50	390.	17.1	11.3	2783.	1.02	1.0	60.	14.8	36.1	90.	25.	0.28
46.65	406.	17.0	11.2	2763.	1.02	1.0	61.	14.8	36.2	93.	25.	0.27
46.80	395.	16.9	11.5	2838.	1.02	1.0	63.	14.4	35.3	91.	25.	0.28
46.95	391.	16.8	11.4	2806.	1.02	1.0	63.	13.8	33.8	90.	24.	0.27
47.10	392.	16.7	11.3	2777.	1.02	1.0	63.	13.4	33.0	90.	23.	0.26
47.25	405.	16.5	11.4	2813.	1.02	1.1	65.	13.2	32.5	93.	23.	0.25
47.40	396.	16.3	11.5	2832.	1.02	1.0	65.	13.2	32.6	91.	23.	0.26
47.55	383.	16.2	11.3	2767.	1.02	1.0	63.	13.3	32.6	88.	23.	0.26
47.70	396.	16.2	10.8	2658.	1.02	1.0	60.	13.4	32.6	91.	22.	0.24
47.85	398.	16.3	11.2	2746.	1.02	1.0	62.	13.4	32.9	92.	23.	0.25
48.00	390.	16.3	11.4	2794.	1.02	1.0	62.	13.5	33.0	90.	23.	0.26
48.15	394.	16.2	10.8	2650.	1.02	1.0	59.	13.5	32.9	91.	22.	0.24
48.30	407.	16.1	11.0	2705.	1.02	1.0	59.	13.2	32.2	94.	22.	0.24
48.45	398.	16.3	11.2	2766.	1.02	1.0	60.	12.8	31.4	91.	22.	0.24
48.60	392.	16.5	11.0	2699.	1.02	1.0	58.	12.4	30.5	90.	21.	0.23
48.75	399.	16.5	10.6	2615.	1.02	1.0	56.	12.5	30.7	92.	20.	0.22
48.90	404.	16.4	11.1	2725.	1.02	1.0	58.	12.7	31.1	93.	21.	0.23
49.05	383.	16.3	11.2	2752.	1.02	1.0	58.	12.8	31.5	88.	22.	0.25
49.20	397.	16.1	10.6	2595.	1.02	1.0	55.	12.8	31.2	91.	21.	0.22
49.35	405.	15.0	10.8	2657.	1.02	1.0	56.	12.4	30.5	93.	21.	0.22
49.50	390.	14.3	10.6	2608.	1.02	1.0	55.	12.1	29.7	90.	20.	0.22
49.65	375.	15.3	10.0	2465.	1.02	1.0	52.	12.0	29.2	86.	18.	0.21
49.80	361.	14.4	9.9	2446.	1.02	1.0	52.	11.9	29.0	83.	18.	0.22
49.95	356.	13.6	10.0	2453.	1.02	1.0	52.	11.9	28.8	82.	18.	0.22
50.10	364.	13.6	9.5	2340.	1.02	1.0	50.	11.7	28.4	83.	17.	0.20
50.25	364.	14.0	9.0	2216.	1.02	1.0	48.	11.6	28.1	84.	16.	0.19
50.40	350.	13.6	9.6	2356.	1.02	1.0	53.	11.6	28.2	80.	17.	0.21
50.55	348.	13.2	10.0	2463.	1.02	1.0	56.	11.6	28.3	80.	18.	0.22
50.70	345.	13.4	9.5	2327.	1.02	1.1	54.	11.5	28.0	79.	17.	0.21
50.85	340.	13.5	9.7	2376.	1.02	1.1	57.	11.4	27.8	78.	17.	0.21
51.00	337.	13.6	10.1	2475.	1.02	1.1	60.	11.3	27.6	78.	17.	0.22
51.15	340.	13.6	9.6	2366.	1.02	1.1	59.	11.1	27.1	78.	16.	0.21
51.30	342.	13.5	8.9	2180.	1.02	1.1	54.	11.1	26.9	79.	15.	0.19
51.45	335.	13.5	9.7	2388.	1.02	1.1	60.	11.2	27.2	77.	16.	0.21
51.60	348.	14.2	9.5	2346.	1.02	1.2	59.	11.2	27.3	80.	16.	0.20

RUN NUMBER- 42
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	360.	15.0	8.8	2174.	1.02	1.2	55.	11.8	28.5	83.	16.	0.19
51.90	351.	15.6	9.4	2312.	1.02	1.2	59.	12.5	30.3	81.	18.	0.22
52.05	348.	14.0	9.9	2441.	1.02	1.2	62.	12.2	29.6	80.	18.	0.23
52.20	345.	13.8	9.2	2254.	1.02	1.2	58.	11.7	28.3	79.	16.	0.21
52.35	338.	14.3	9.5	2336.	1.02	1.2	60.	11.2	27.1	78.	16.	0.21
52.50	325.	13.3	9.4	2304.	1.02	1.2	59.	11.0	26.6	75.	16.	0.21
52.65	324.	12.4	8.8	2159.	1.02	1.2	55.	10.8	26.2	75.	14.	0.19
52.80	288.	12.4	8.5	2087.	1.02	1.1	52.	10.8	26.0	66.	14.	0.21
52.95	213.	11.9	9.3	2297.	1.02	1.1	56.	10.2	24.8	49.	14.	0.29
53.10	66.	9.5	9.1	2245.	1.02	1.1	54.	8.4	20.6	15.	12.	0.77
53.25	26.	5.4	4.9	1203.	1.02	1.1	28.	7.7	18.2	6.	6.	0.94
53.40	5.	3.1	4.1	1008.	1.02	1.0	23.	7.6	17.8	1.	5.	3.92
53.55	2.	2.9	3.2	786.	1.02	1.0	18.	7.5	17.5	0.	3.	9.73
53.70	-1.	3.2	2.4	594.	1.02	1.0	13.	7.5	17.3	-0.	3.	4.77
53.85	4.	3.3	2.0	488.	1.02	1.1	11.	7.4	17.2	1.	2.	2.27
54.00	2.	2.5	1.7	424.	1.02	1.1	10.	7.4	17.0	0.	2.	4.48
54.15	-1.	2.8	1.5	371.	1.02	1.1	9.	7.3	16.9	-0.	2.	9.52
54.30	-1.	2.3	1.4	333.	1.02	1.1	8.	7.3	16.8	-0.	1.	9.40
54.45	-3.	2.0	1.2	306.	1.02	1.1	8.	7.2	16.7	-1.	1.	2.00
54.60	-6.	1.6	1.1	281.	1.02	1.2	7.	7.1	16.4	-1.	1.	0.86
54.75	-5.	1.4	1.1	263.	1.02	1.2	7.	7.0	16.1	-1.	1.	0.85

LOCATION- SUNNY POINT
DATE OF TEST- 10 5 78
RUN NUMBER- 43
SEGMENT NUMBER- 1
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.60
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	4.	ND	0.2	61.	1.00	0.	0.	ND	NC	1.	NC	NC
0.15	3.	ND	0.2	61.	1.01	0.3	0.	ND	NC	1.	NC	NC
0.30	0.	ND	0.2	51.	1.01	0.4	0.	ND	NC	0.	NC	NC
0.45	4.	ND	0.2	56.	1.01	0.3	0.	ND	NC	1.	NC	NC
0.60	10.	ND	0.2	51.	1.01	0.4	0.	ND	NC	2.	NC	NC
0.75	23.	ND	0.2	43.	1.01	0.6	1.	ND	NC	5.	NC	NC
0.90	36.	ND	0.2	46.	1.01	0.4	0.	ND	NC	8.	NC	NC
1.05	51.	ND	0.2	52.	1.01	0.3	0.	ND	NC	12.	NC	NC
1.20	67.	ND	0.3	64.	1.01	0.3	0.	ND	NC	15.	NC	NC
1.35	80.	ND	0.2	55.	1.00	0.	0.	ND	NC	18.	NC	NC
1.50	108.	ND	0.2	45.	1.00	0.	0.	ND	NC	25.	NC	NC
1.65	122.	ND	0.2	43.	1.01	0.5	0.	ND	NC	28.	NC	NC
1.80	148.	ND	0.2	51.	1.01	0.4	0.	ND	NC	34.	NC	NC
1.95	160.	ND	0.2	55.	1.01	0.4	1.	ND	NC	37.	NC	NC
2.10	124.	ND	0.2	56.	1.01	0.4	1.	ND	NC	28.	NC	NC
2.25	102.	ND	0.3	62.	1.01	0.6	1.	ND	NC	23.	NC	NC
2.40	122.	ND	3.2	794.	1.00	0.	0.	ND	NC	28.	NC	NC
2.55	151.	ND	4.2	1028.	1.00	0.	0.	ND	NC	35.	NC	NC
2.70	195.	ND	4.0	985.	1.00	0.	0.	ND	NC	45.	NC	NC
2.85	240.	ND	3.7	914.	1.00	0.	0.	ND	NC	55.	NC	NC
3.00	333.	ND	4.3	1054.	1.00	0.	0.	ND	NC	77.	NC	NC
3.15	377.	ND	5.2	1270.	1.00	0.	0.	ND	NC	87.	NC	NC
3.30	509.	ND	6.0	1486.	1.00	0.	0.	ND	NC	117.	NC	NC
3.45	610.	ND	8.4	2063.	1.00	0.	0.	ND	NC	140.	NC	NC
3.60	629.	ND	10.8	2650.	1.00	0.	0.	ND	NC	145.	NC	NC
3.75	617.	ND	10.8	2661.	1.00	0.	0.	ND	NC	142.	NC	NC
3.90	634.	ND	10.5	2586.	1.00	0.	0.	ND	NC	146.	NC	NC
4.05	631.	ND	11.2	2744.	1.00	0.	0.	ND	NC	145.	NC	NC
4.20	626.	ND	11.9	2936.	1.00	0.	0.	ND	NC	144.	NC	NC
4.35	651.	ND	11.0	2707.	1.00	0.	0.	ND	NC	150.	NC	NC
4.50	664.	ND	11.7	2867.	1.01	0.3	22.	ND	NC	153.	NC	NC
4.65	652.	ND	11.9	2937.	1.00	0.	0.	ND	NC	150.	NC	NC
4.80	661.	ND	11.2	2751.	1.00	0.	0.	ND	NC	152.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	676.	ND	11.1	2738.	1.00	0.	0.	ND	NC	156.	NC	NC
5.10	678.	ND	11.3	2787.	1.00	0.	0.	ND	NC	156.	NC	NC
5.25	674.	ND	10.9	2689.	1.00	0.	0.	ND	NC	155.	NC	NC
5.40	668.	ND	9.9	2432.	1.00	0.	0.	ND	NC	154.	NC	NC
5.55	673.	ND	10.4	2553.	1.00	0.	0.	ND	NC	155.	NC	NC
5.70	751.	ND	10.8	2644.	1.01	0.3	18.	ND	NC	173.	NC	NC
5.85	868.	ND	10.6	2596.	1.00	0.	0.	ND	NC	200.	NC	NC
6.00	872.	ND	11.3	2790.	1.00	0.	0.	ND	NC	200.	NC	NC
6.15	866.	ND	11.9	2918.	1.01	0.6	40.	ND	NC	200.	NC	NC
6.30	869.	ND	11.9	2916.	1.02	1.0	63.	ND	NC	200.	NC	NC
6.45	856.	ND	11.6	2854.	1.02	0.9	58.	ND	NC	197.	NC	NC
6.60	865.	ND	11.8	2891.	1.02	1.2	78.	ND	NC	199.	NC	NC
6.75	859.	ND	12.0	2952.	1.03	1.6	100.	ND	NC	198.	NC	NC
6.90	859.	ND	11.7	2886.	1.01	0.3	19.	ND	NC	198.	NC	NC
7.05	859.	ND	11.6	2845.	1.01	0.5	34.	ND	NC	198.	NC	NC
7.20	865.	ND	11.8	2913.	1.03	1.7	106.	ND	NC	199.	NC	NC
7.35	837.	ND	11.7	2886.	1.00	0.	0.	ND	NC	192.	NC	NC
7.50	841.	ND	11.3	2776.	1.00	0.	0.	ND	NC	193.	NC	NC
7.65	844.	ND	11.2	2765.	1.01	0.7	45.	ND	NC	194.	NC	NC
7.80	840.	ND	11.8	2905.	1.00	0.	0.	ND	NC	193.	NC	NC
7.95	855.	ND	11.6	2861.	1.00	0.	0.	ND	NC	197.	NC	NC
8.10	875.	ND	10.6	2600.	1.01	0.5	30.	ND	NC	201.	NC	NC
8.25	876.	ND	11.7	2880.	1.01	0.8	49.	ND	NC	201.	NC	NC
8.40	884.	ND	11.6	2856.	1.01	0.6	36.	ND	NC	203.	NC	NC
8.55	899.	ND	10.8	2644.	1.02	1.0	56.	ND	NC	207.	NC	NC
8.70	903.	ND	11.3	2779.	1.03	2.0	123.	ND	NC	208.	NC	NC
8.85	908.	ND	11.4	2799.	1.04	2.1	130.	ND	NC	209.	NC	NC
9.00	918.	ND	11.1	2731.	1.04	2.2	133.	ND	NC	211.	NC	NC
9.15	921.	ND	11.0	2707.	1.05	3.1	182.	ND	NC	212.	NC	NC
9.30	911.	ND	11.3	2775.	1.06	3.5	214.	ND	NC	210.	NC	NC
9.45	890.	ND	11.3	2784.	1.05	3.2	196.	ND	NC	205.	NC	NC
9.60	842.	ND	10.6	2612.	1.06	3.4	192.	ND	NC	194.	NC	NC
9.75	855.	ND	10.8	2648.	1.07	4.3	246.	ND	NC	197.	NC	NC
9.90	862.	ND	11.3	2771.	1.09	5.2	315.	ND	NC	198.	NC	NC
10.05	832.	ND	11.0	2695.	1.06	3.8	224.	ND	NC	191.	NC	NC
10.20	841.	ND	11.0	2709.	1.07	4.4	260.	ND	NC	194.	NC	NC
10.35	857.	ND	11.3	2783.	1.09	5.6	338.	ND	NC	197.	NC	NC
10.50	836.	ND	11.4	2799.	1.05	3.0	182.	ND	NC	192.	NC	NC
10.65	824.	ND	10.9	2675.	1.06	3.5	205.	ND	NC	190.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	843.	ND	10.7	2643.	1.09	5.4	309.	ND	NC	194.	NC	NC
10.95	843.	ND	11.4	2795.	1.10	6.1	370.	ND	NC	194.	NC	NC
11.10	815.	ND	10.8	2649.	1.04	2.3	134.	ND	NC	187.	NC	NC
11.25	843.	ND	9.9	2438.	1.13	7.7	409.	ND	NC	194.	NC	NC
11.40	838.	ND	10.9	2681.	1.17	10.1	594.	ND	NC	193.	NC	NC
11.55	830.	ND	11.2	2755.	1.06	3.4	204.	ND	NC	191.	NC	NC
11.70	853.	ND	10.5	2572.	1.11	6.7	379.	ND	NC	196.	NC	NC
11.85	870.	ND	10.0	2455.	1.12	7.2	389.	ND	NC	200.	NC	NC
12.00	864.	ND	10.9	2671.	1.13	7.7	452.	ND	NC	199.	NC	NC
12.15	872.	ND	10.8	2656.	1.14	8.2	479.	ND	NC	200.	NC	NC
12.30	890.	ND	9.9	2423.	1.15	8.8	468.	ND	NC	205.	NC	NC
12.45	889.	ND	11.2	2752.	1.13	7.8	466.	ND	NC	204.	NC	NC
12.60	891.	ND	11.2	2757.	1.08	4.5	271.	ND	NC	205.	NC	NC
12.75	897.	ND	10.6	2599.	1.09	5.0	284.	ND	NC	206.	NC	NC
12.90	897.	ND	11.0	2695.	1.11	6.4	376.	ND	NC	206.	NC	NC
13.05	877.	ND	11.6	2851.	1.06	3.7	233.	ND	NC	202.	NC	NC
13.20	855.	ND	11.4	2804.	1.04	2.4	146.	ND	NC	197.	NC	NC
13.35	837.	ND	11.1	2733.	1.05	2.7	163.	ND	NC	193.	NC	NC
13.50	835.	ND	11.5	2827.	1.06	3.6	224.	ND	NC	192.	NC	NC
13.65	841.	ND	11.7	2886.	1.06	3.7	234.	ND	NC	193.	NC	NC
13.80	832.	ND	11.4	2810.	1.02	1.2	71.	ND	NC	191.	NC	NC
13.95	840.	ND	11.3	2771.	1.03	2.0	123.	ND	NC	193.	NC	NC
14.10	838.	ND	11.6	2849.	1.05	3.1	195.	ND	NC	193.	NC	NC
14.25	831.	ND	11.6	2843.	1.02	1.2	76.	ND	NC	191.	NC	NC
14.40	826.	ND	11.5	2829.	1.01	0.8	52.	ND	NC	193.	NC	NC
14.55	824.	ND	11.3	2785.	1.06	3.7	225.	ND	NC	193.	NC	NC
14.70	816.	ND	11.4	2868.	1.04	2.1	128.	ND	NC	188.	NC	NC
14.85	799.	ND	11.2	2745.	1.03	1.5	92.	ND	NC	184.	NC	NC
15.00	825.	ND	11.1	2718.	1.04	2.3	134.	ND	NC	190.	NC	NC
15.15	824.	ND	11.5	2827.	1.03	2.0	125.	ND	NC	189.	NC	NC
15.30	835.	ND	11.3	2769.	1.01	0.7	44.	ND	NC	192.	NC	NC
15.45	842.	ND	10.8	2658.	1.01	0.8	49.	ND	NC	194.	NC	NC
15.60	859.	ND	11.1	2727.	1.04	2.1	123.	ND	NC	198.	NC	NC
15.75	879.	ND	11.6	2862.	1.03	1.9	118.	ND	NC	202.	NC	NC
15.90	885.	ND	11.3	2709.	1.02	1.1	63.	ND	NC	204.	NC	NC
16.05	894.	ND	11.1	2725.	1.02	1.3	75.	ND	NC	206.	NC	NC
16.20	893.	ND	11.5	2836.	1.03	1.6	100.	ND	NC	205.	NC	NC
16.35	909.	ND	11.5	2835.	1.03	1.5	94.	ND	NC	209.	NC	NC
16.50	911.	ND	11.1	2730.	1.03	1.8	106.	ND	NC	209.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	882.	ND	11.3	2788.	1.07	4.2	255.	ND	NC	203.	NC	NC
16.80	881.	ND	11.7	2872.	1.06	3.6	224.	ND	NC	203.	NC	NC
16.95	851.	ND	11.1	2720.	1.05	2.8	169.	ND	NC	196.	NC	NC
17.10	838.	ND	11.2	2752.	1.06	3.2	195.	ND	NC	193.	NC	NC
17.25	851.	ND	11.6	2858.	1.06	3.4	214.	ND	NC	196.	NC	NC
17.40	833.	ND	11.7	2867.	1.03	2.0	123.	ND	NC	192.	NC	NC
17.55	830.	ND	11.5	2828.	1.03	1.5	94.	ND	NC	191.	NC	NC
17.70	842.	ND	11.4	2815.	1.04	2.2	134.	ND	NC	194.	NC	NC
17.85	837.	ND	12.0	2939.	1.03	1.6	105.	ND	NC	192.	NC	NC
18.00	818.	ND	11.7	2871.	1.00	0.	0.	ND	NC	188.	NC	NC
18.15	832.	ND	11.0	2717.	1.01	0.7	40.	ND	NC	191.	NC	NC
18.30	829.	ND	11.6	2857.	1.03	1.8	114.	ND	NC	191.	NC	NC
18.45	817.	ND	11.7	2877.	1.00	0.	0.	ND	NC	188.	NC	NC
18.60	828.	ND	11.2	2743.	1.01	0.9	52.	ND	NC	191.	NC	NC
18.75	836.	ND	11.4	2796.	1.04	2.4	149.	ND	NC	192.	NC	NC
18.90	836.	ND	11.7	2876.	1.02	1.2	73.	ND	NC	192.	NC	NC
19.05	846.	ND	11.8	2901.	1.02	1.2	74.	ND	NC	195.	NC	NC
19.20	866.	ND	10.7	2634.	1.11	6.6	378.	ND	NC	199.	NC	NC
19.35	866.	ND	11.4	2793.	1.06	3.5	212.	ND	NC	199.	NC	NC
19.50	866.	ND	11.7	2874.	1.05	2.8	176.	ND	NC	199.	NC	NC
19.65	888.	ND	10.9	2681.	1.08	4.8	280.	ND	NC	204.	NC	NC
19.80	905.	ND	11.2	2756.	1.14	8.1	487.	ND	NC	208.	NC	NC
19.95	901.	ND	11.6	2848.	1.05	3.2	201.	ND	NC	207.	NC	NC
20.10	905.	ND	10.8	2656.	1.09	5.3	305.	ND	NC	208.	NC	NC
20.25	903.	ND	10.5	2589.	1.11	6.7	381.	ND	NC	208.	NC	NC
20.40	883.	ND	11.2	2750.	1.10	6.0	361.	ND	NC	203.	NC	NC
20.55	848.	ND	11.3	2775.	1.09	5.0	303.	ND	NC	195.	NC	NC
20.70	830.	ND	10.7	2643.	1.10	5.7	328.	ND	NC	191.	NC	NC
20.85	833.	ND	11.2	2746.	1.11	6.3	380.	ND	NC	192.	NC	NC
21.00	838.	ND	11.8	2906.	1.10	5.7	360.	ND	NC	193.	NC	NC
21.15	830.	ND	11.5	2834.	1.04	2.1	130.	ND	NC	191.	NC	NC
21.30	844.	ND	11.4	2815.	1.05	3.0	183.	ND	NC	194.	NC	NC
21.45	850.	ND	12.0	2945.	1.07	4.0	256.	ND	NC	196.	NC	NC
21.60	832.	ND	12.0	2959.	1.03	2.0	128.	ND	NC	191.	NC	NC
21.75	828.	ND	11.7	2882.	1.02	1.1	70.	ND	NC	191.	NC	NC
21.90	849.	ND	11.5	2823.	1.05	3.1	189.	ND	NC	195.	NC	NC
22.05	828.	ND	11.8	2900.	1.04	2.3	144.	ND	NC	190.	NC	NC
22.20	822.	ND	11.6	2853.	1.02	1.3	78.	ND	NC	189.	NC	NC
22.35	859.	ND	10.8	2652.	1.07	4.0	234.	ND	NC	198.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	844.	ND	11.5	2832.	1.09	5.2	322.	ND	NC	194.	NC	NC
22.65	849.	ND	11.6	2862.	1.01	0.4	26.	ND	NC	195.	NC	NC
22.80	863.	ND	10.7	2632.	1.06	3.3	187.	ND	NC	199.	NC	NC
22.95	875.	ND	10.9	2677.	1.08	4.8	280.	ND	NC	201.	NC	NC
23.10	883.	ND	11.7	2866.	1.05	2.8	174.	ND	NC	203.	NC	NC
23.25	878.	ND	11.5	2831.	1.07	4.2	258.	ND	NC	202.	NC	NC
23.40	894.	ND	10.7	2635.	1.10	5.9	340.	ND	NC	206.	NC	NC
23.55	913.	ND	11.4	2801.	1.10	5.9	361.	ND	NC	213.	NC	NC
23.70	919.	ND	11.6	2859.	1.06	3.4	211.	ND	NC	211.	NC	NC
23.85	907.	ND	10.9	2684.	1.07	3.9	230.	ND	NC	209.	NC	NC
24.00	894.	ND	11.4	2799.	1.08	4.6	282.	ND	NC	206.	NC	NC
24.15	873.	ND	11.9	2925.	1.05	3.0	190.	ND	NC	201.	NC	NC
24.30	847.	ND	11.7	2871.	1.04	2.6	165.	ND	NC	195.	NC	NC
24.45	821.	ND	11.3	2782.	1.05	3.0	180.	ND	NC	189.	NC	NC
24.60	851.	ND	11.6	2860.	1.06	3.6	224.	ND	NC	196.	NC	NC
24.75	838.	ND	12.0	2943.	1.05	2.9	184.	ND	NC	193.	NC	NC
24.90	839.	ND	11.5	2825.	1.03	1.7	104.	ND	NC	191.	NC	NC
25.05	848.	ND	11.4	2796.	1.05	2.9	180.	ND	NC	195.	NC	NC
25.20	858.	ND	11.8	2893.	1.07	4.0	255.	ND	NC	197.	NC	NC
25.35	841.	ND	11.4	2804.	1.02	1.1	67.	ND	NC	193.	NC	NC
25.50	842.	ND	11.0	2694.	1.05	2.8	158.	ND	NC	194.	NC	NC
25.65	847.	ND	11.0	2712.	1.08	4.5	268.	ND	NC	195.	NC	NC
25.80	837.	ND	11.4	2808.	1.07	4.4	257.	ND	NC	192.	NC	NC
25.95	836.	ND	10.9	2671.	1.03	1.7	98.	ND	NC	192.	NC	NC
26.10	852.	ND	10.4	2546.	1.07	4.3	237.	ND	NC	196.	NC	NC
26.25	865.	ND	11.3	2773.	1.08	4.5	275.	ND	NC	199.	NC	NC
26.40	866.	ND	11.4	2814.	1.02	1.1	68.	ND	NC	199.	NC	NC
26.55	879.	ND	10.8	2647.	1.06	3.6	207.	ND	NC	202.	NC	NC
26.70	887.	ND	11.1	2720.	1.08	4.9	289.	ND	NC	204.	NC	NC
26.85	893.	ND	11.4	2799.	1.03	1.7	104.	ND	NC	205.	NC	NC
27.00	900.	ND	11.1	2741.	1.03	2.0	122.	ND	NC	207.	NC	NC
27.15	907.	ND	10.4	2549.	1.06	3.7	207.	ND	NC	209.	NC	NC
27.30	912.	ND	11.5	2831.	1.05	2.8	173.	ND	NC	210.	NC	NC
27.45	919.	ND	11.7	2874.	1.03	1.6	99.	ND	NC	211.	NC	NC
27.60	906.	ND	11.1	2725.	1.04	2.2	128.	ND	NC	208.	NC	NC
27.75	886.	ND	11.5	2828.	1.05	2.7	169.	ND	NC	204.	NC	NC
27.90	863.	ND	12.0	2950.	1.03	1.9	125.	ND	NC	198.	NC	NC
28.05	831.	ND	11.4	2803.	1.01	0.4	27.	ND	NC	191.	NC	NC
28.20	833.	ND	11.4	2806.	1.01	0.7	41.	ND	NC	192.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	849.	ND	11.8	2897.	1.02	1.0	63.	ND	NC	195.	NC	NC
28.50	843.	ND	12.2	2995.	1.01	0.8	50.	ND	NC	194.	NC	NC
28.65	831.	ND	11.6	2864.	1.00	0.	0.	ND	NC	191.	NC	NC
28.80	848.	ND	11.6	2851.	1.01	0.6	36.	ND	NC	195.	NC	NC
28.95	845.	ND	11.7	2883.	1.02	1.5	91.	ND	NC	194.	NC	NC
29.10	844.	ND	11.5	2828.	1.03	1.8	109.	ND	NC	194.	NC	NC
29.25	836.	ND	11.1	2720.	1.04	2.6	155.	ND	NC	192.	NC	NC
29.40	839.	ND	11.2	2761.	1.06	3.7	225.	ND	NC	193.	NC	NC
29.55	819.	ND	11.2	2743.	1.05	2.8	170.	ND	NC	188.	NC	NC
29.70	828.	ND	10.7	2636.	1.06	3.2	187.	ND	NC	190.	NC	NC
29.85	852.	ND	10.2	2497.	1.10	5.8	318.	ND	NC	196.	NC	NC
30.00	854.	ND	11.0	2714.	1.06	3.4	204.	ND	NC	197.	NC	NC
30.15	862.	ND	11.1	2740.	1.04	2.6	154.	ND	NC	198.	NC	NC
30.30	861.	ND	10.2	2499.	1.07	4.3	235.	ND	NC	203.	NC	NC
30.45	888.	ND	10.9	2689.	1.12	6.9	404.	ND	NC	204.	NC	NC
30.60	892.	ND	11.4	2792.	1.04	2.1	128.	ND	NC	205.	NC	NC
30.75	904.	ND	10.5	2586.	1.05	3.1	177.	ND	NC	208.	NC	NC
30.90	915.	ND	10.7	2630.	1.09	5.5	318.	ND	NC	210.	NC	NC
31.05	915.	ND	11.2	2743.	1.05	2.9	171.	ND	NC	211.	NC	NC
31.20	902.	ND	11.5	2827.	1.04	2.6	158.	ND	NC	207.	NC	NC
31.35	882.	ND	10.9	2679.	1.06	3.6	211.	ND	NC	203.	NC	NC
31.50	882.	ND	11.1	2729.	1.06	3.8	226.	ND	NC	203.	NC	NC
31.65	858.	ND	11.6	2844.	1.04	2.6	160.	ND	NC	197.	NC	NC
31.80	834.	ND	11.2	2749.	1.03	1.9	117.	ND	NC	192.	NC	NC
31.95	852.	ND	11.1	2732.	1.04	2.4	145.	ND	NC	196.	NC	NC
32.10	858.	ND	11.6	2846.	1.03	1.8	111.	ND	NC	197.	NC	NC
32.25	838.	ND	11.5	2834.	1.01	0.4	23.	ND	NC	193.	NC	NC
32.40	828.	ND	11.2	2756.	1.02	0.9	55.	ND	NC	190.	NC	NC
32.55	847.	ND	11.3	2777.	1.04	2.2	134.	ND	NC	195.	NC	NC
32.70	840.	ND	11.5	2829.	1.03	1.5	92.	ND	NC	193.	NC	NC
32.85	808.	ND	11.3	2790.	1.02	1.0	63.	ND	NC	186.	NC	NC
33.00	830.	ND	10.7	2619.	1.05	3.0	169.	ND	NC	191.	NC	NC
33.15	834.	ND	11.1	2728.	1.07	4.4	263.	ND	NC	192.	NC	NC
33.30	819.	ND	11.1	2721.	1.04	2.5	150.	ND	NC	188.	NC	NC
33.45	832.	ND	10.4	2555.	1.05	3.2	180.	ND	NC	191.	NC	NC
33.60	842.	ND	10.4	2559.	1.09	5.4	300.	ND	NC	194.	NC	NC
33.75	842.	ND	11.0	2708.	1.07	4.2	249.	ND	NC	194.	NC	NC
33.90	848.	ND	10.8	2668.	1.05	3.0	178.	ND	NC	195.	NC	NC
34.05	873.	ND	10.5	2576.	1.09	5.4	302.	ND	NC	201.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	884.	ND	10.8	2654.	1.10	5.7	329.	ND	NC	203.	NC	NC
34.35	882.	ND	10.9	2688.	1.08	4.5	267.	ND	NC	203.	NC	NC
34.50	892.	ND	10.3	2535.	1.06	3.7	204.	ND	NC	205.	NC	NC
34.65	910.	ND	10.5	2592.	1.08	4.6	262.	ND	NC	209.	NC	NC
34.80	909.	ND	10.8	2666.	1.07	4.4	256.	ND	NC	209.	NC	NC
34.95	904.	ND	10.4	2563.	1.05	2.9	162.	ND	NC	208.	NC	NC
35.10	897.	ND	10.5	2579.	1.06	3.3	184.	ND	NC	206.	NC	NC
35.25	852.	ND	10.7	2638.	1.07	4.2	244.	ND	NC	196.	NC	NC
35.40	827.	ND	10.5	2577.	1.06	3.8	213.	ND	NC	190.	NC	NC
35.55	826.	ND	10.3	2532.	1.04	2.5	136.	ND	NC	190.	NC	NC
35.70	841.	ND	10.7	2633.	1.04	2.3	131.	ND	NC	193.	NC	NC
35.85	851.	ND	11.1	2722.	1.08	4.5	259.	ND	NC	196.	NC	NC
36.00	835.	ND	10.9	2679.	1.04	2.3	132.	ND	NC	192.	NC	NC
36.15	832.	ND	10.7	2619.	1.03	2.0	113.	ND	NC	191.	NC	NC
36.30	833.	ND	10.9	2687.	1.07	4.0	234.	ND	NC	192.	NC	NC
36.45	827.	ND	10.9	2674.	1.02	1.1	66.	ND	NC	190.	NC	NC
36.60	819.	ND	10.3	2542.	1.03	1.6	90.	ND	NC	188.	NC	NC
36.75	818.	ND	10.3	2528.	1.06	3.6	200.	ND	NC	188.	NC	NC
36.90	826.	ND	10.6	2612.	1.06	3.4	197.	ND	NC	190.	NC	NC
37.05	806.	ND	10.5	2593.	1.05	2.8	159.	ND	NC	185.	NC	NC
37.20	835.	ND	10.1	2488.	1.06	3.6	198.	ND	NC	192.	NC	NC
37.35	847.	ND	10.7	2628.	1.07	4.3	246.	ND	NC	195.	NC	NC
37.50	843.	ND	10.6	2597.	1.04	2.6	146.	ND	NC	194.	NC	NC
37.65	860.	ND	10.1	2483.	1.05	2.7	146.	ND	NC	198.	NC	NC
37.80	879.	ND	10.3	2530.	1.07	4.3	239.	ND	NC	202.	NC	NC
37.95	887.	ND	10.6	2597.	1.06	3.4	192.	ND	NC	204.	NC	NC
38.10	896.	ND	10.4	2565.	1.05	2.8	155.	ND	NC	206.	NC	NC
38.25	909.	ND	10.1	2478.	1.06	3.3	178.	ND	NC	209.	NC	NC
38.40	919.	ND	10.3	2532.	1.07	4.0	219.	ND	NC	211.	NC	NC
38.55	894.	ND	10.5	2572.	1.07	4.3	244.	ND	NC	206.	NC	NC
38.70	841.	ND	10.0	2460.	1.05	3.1	166.	ND	NC	193.	NC	NC
38.85	839.	ND	10.1	2496.	1.06	3.2	176.	ND	NC	193.	NC	NC
39.00	838.	ND	10.3	2537.	1.08	4.5	249.	ND	NC	193.	NC	NC
39.15	821.	ND	10.1	2490.	1.05	2.9	159.	ND	NC	189.	NC	NC
39.30	812.	ND	10.1	2494.	1.04	2.1	112.	ND	NC	187.	NC	NC
39.45	823.	ND	10.5	2592.	1.06	3.6	201.	ND	NC	189.	NC	NC
39.60	818.	ND	10.6	2607.	1.05	3.2	184.	ND	NC	188.	NC	NC
39.75	806.	ND	10.4	2556.	1.04	2.2	121.	ND	NC	185.	NC	NC
39.90	829.	ND	10.5	2585.	1.06	3.7	212.	ND	NC	191.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	838.	ND	10.6	2600.	1.05	2.8	158.	ND	NC	193.	NC	NC
40.20	811.	ND	10.5	2581.	1.02	1.3	71.	ND	NC	187.	NC	NC
40.35	812.	ND	10.2	2514.	1.01	0.5	27.	ND	NC	187.	NC	NC
40.50	815.	ND	10.6	2604.	1.02	1.2	66.	ND	NC	187.	NC	NC
40.65	804.	ND	10.7	2643.	1.01	0.4	25.	ND	NC	185.	NC	NC
40.80	812.	ND	10.2	2515.	1.01	0.3	17.	ND	NC	187.	NC	NC
40.95	831.	ND	10.0	2467.	1.02	1.1	57.	ND	NC	191.	NC	NC
41.10	843.	ND	10.6	2608.	1.00	0.	0.	ND	NC	194.	NC	NC
41.25	841.	ND	10.6	2606.	1.00	0.	0.	ND	NC	193.	NC	NC
41.40	873.	ND	10.0	2466.	1.00	0.	0.	ND	NC	201.	NC	NC
41.55	880.	ND	10.5	2578.	1.00	0.	0.	ND	NC	202.	NC	NC
41.70	894.	ND	10.0	2454.	1.00	0.	0.	ND	NC	206.	NC	NC
41.85	901.	ND	9.5	2337.	1.01	0.3	16.	ND	NC	207.	NC	NC
42.00	908.	ND	9.0	2223.	1.01	0.7	36.	ND	NC	209.	NC	NC
42.15	916.	ND	9.2	2268.	1.03	2.0	97.	ND	NC	211.	NC	NC
42.30	874.	ND	8.8	2157.	1.04	2.5	120.	ND	NC	201.	NC	NC
42.45	823.	ND	8.5	2097.	1.05	2.9	134.	ND	NC	189.	NC	NC
42.60	812.	ND	9.0	2214.	1.05	2.7	131.	ND	NC	187.	NC	NC
42.75	808.	ND	8.9	2199.	1.04	2.5	119.	ND	NC	186.	NC	NC
42.90	783.	ND	8.4	2061.	1.05	2.9	132.	ND	NC	180.	NC	NC
43.05	764.	ND	7.6	1869.	1.07	4.4	180.	ND	NC	176.	NC	NC
43.20	749.	ND	7.1	1744.	1.22	13.1	501.	ND	NC	172.	NC	NC
43.35	739.	ND	6.8	1681.	1.08	4.5	164.	ND	NC	170.	NC	NC
43.50	756.	ND	5.6	1376.	1.07	3.9	118.	ND	NC	174.	NC	NC
43.65	776.	ND	6.0	1483.	1.05	2.9	93.	ND	NC	179.	NC	NC
43.80	772.	ND	7.1	1758.	1.05	2.8	107.	ND	NC	178.	NC	NC
43.95	743.	ND	7.0	1722.	1.07	4.1	152.	ND	NC	171.	NC	NC
44.10	790.	ND	7.1	1736.	1.04	2.6	99.	ND	NC	182.	NC	NC
44.25	802.	ND	8.7	2136.	1.05	3.1	144.	ND	NC	185.	NC	NC
44.40	812.	ND	8.7	2146.	1.07	4.0	190.	ND	NC	187.	NC	NC
44.55	838.	ND	8.5	2079.	1.04	2.4	108.	ND	NC	193.	NC	NC
44.70	854.	ND	8.5	2085.	1.03	2.0	89.	ND	NC	196.	NC	NC
44.85	860.	ND	8.2	2011.	1.05	3.1	134.	ND	NC	198.	NC	NC
45.00	877.	ND	7.8	1919.	1.04	2.5	107.	ND	NC	202.	NC	NC
45.15	896.	ND	7.5	1843.	1.03	1.8	70.	ND	NC	206.	NC	NC
45.30	905.	ND	7.0	1724.	1.02	1.0	39.	ND	NC	209.	NC	NC
45.45	959.	ND	5.2	1277.	1.01	0.8	23.	ND	NC	221.	NC	NC
45.60	977.	ND	5.2	1267.	1.03	1.6	43.	ND	NC	225.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 10 5 78
RUN NUMBER- 43
SEGMENT NUMBER- 2
WATER DEPTH- 25 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	953.	ND	5.1	1253.	1.02	1.4	39.	ND	NC	219.	NC	NC
0.15	979.	ND	5.1	1251.	1.03	1.7	46.	ND	NC	225.	NC	NC
0.30	896.	ND	5.3	1301.	1.03	1.8	52.	ND	NC	206.	NC	NC
0.45	796.	ND	5.1	1254.	1.03	1.8	50.	ND	NC	183.	NC	NC
0.60	723.	ND	5.3	1305.	1.03	1.5	42.	ND	NC	166.	NC	NC
0.75	717.	ND	5.4	1321.	1.02	0.9	27.	ND	NC	165.	NC	NC
0.90	713.	ND	5.4	1318.	1.01	0.6	16.	ND	NC	164.	NC	NC
1.05	725.	ND	5.6	1388.	1.01	0.5	16.	ND	NC	167.	NC	NC
1.20	766.	ND	6.4	1578.	1.01	0.7	25.	ND	NC	176.	NC	NC
1.35	781.	ND	7.0	1717.	1.01	0.6	24.	ND	NC	180.	NC	NC
1.50	779.	ND	6.6	1635.	1.01	0.6	22.	ND	NC	179.	NC	NC
1.65	759.	ND	6.5	1610.	1.01	0.6	20.	ND	NC	175.	NC	NC
1.80	764.	ND	6.6	1632.	1.00	0.	0.	ND	NC	176.	NC	NC
1.95	798.	ND	7.4	1826.	1.00	0.	0.	ND	NC	183.	NC	NC
2.10	797.	ND	8.4	2061.	1.01	0.7	33.	ND	NC	183.	NC	NC
2.25	791.	ND	8.5	2093.	1.01	0.4	20.	ND	NC	182.	NC	NC
2.40	818.	ND	8.6	2106.	1.01	0.7	32.	ND	NC	188.	NC	NC
2.55	839.	ND	8.8	2173.	1.01	0.5	25.	ND	NC	193.	NC	NC
2.70	867.	ND	8.9	2199.	1.00	0.	0.	ND	NC	199.	NC	NC
2.85	886.	ND	9.4	2318.	1.00	0.	0.	ND	NC	204.	NC	NC
3.00	888.	ND	11.0	2704.	1.00	0.	0.	ND	NC	204.	NC	NC
3.15	888.	ND	11.5	2821.	1.01	0.4	22.	ND	NC	204.	NC	NC
3.30	907.	ND	10.9	2673.	1.02	1.0	59.	ND	NC	209.	NC	NC
3.45	897.	ND	11.5	2836.	1.00	0.	0.	ND	NC	206.	NC	NC
3.60	883.	ND	11.6	2846.	1.00	0.	0.	ND	NC	203.	NC	NC
3.75	849.	ND	11.2	2759.	1.00	0.	0.	ND	NC	195.	NC	NC
3.90	815.	ND	10.8	2668.	1.00	0.	0.	ND	NC	187.	NC	NC
4.05	819.	ND	10.7	2643.	1.00	0.	0.	ND	NC	188.	NC	NC
4.20	774.	ND	8.7	2150.	1.01	0.7	35.	ND	NC	178.	NC	NC
4.35	739.	ND	6.5	1599.	1.02	1.0	36.	ND	NC	170.	NC	NC
4.50	749.	ND	6.3	1549.	1.00	0.	0.	ND	NC	172.	NC	NC
4.65	732.	ND	6.2	1519.	1.00	0.	0.	ND	NC	168.	NC	NC
4.80	719.	ND	5.9	1455.	1.00	0.	0.	ND	NC	165.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	719.	ND	5.8	1421.	1.00	0.	0.	ND	NC	165.	NC	NC
5.10	721.	ND	5.7	1413.	1.00	0.	0.	ND	NC	166.	NC	NC
5.25	724.	ND	5.7	1405.	1.01	0.5	15.	ND	NC	166.	NC	NC
5.40	724.	ND	5.8	1420.	1.00	0.	0.	ND	NC	166.	NC	NC
5.55	756.	ND	6.4	1564.	1.00	0.	0.	ND	NC	174.	NC	NC
5.70	796.	ND	8.0	1970.	1.00	0.	0.	ND	NC	183.	NC	NC
5.85	798.	ND	8.0	1980.	1.00	0.	0.	ND	NC	184.	NC	NC
6.00	813.	ND	8.0	1957.	1.00	0.	0.	ND	NC	187.	NC	NC
6.15	851.	ND	8.6	2108.	1.00	0.	0.	ND	NC	196.	NC	NC
6.30	862.	ND	9.2	2273.	1.01	0.7	32.	ND	NC	198.	NC	NC
6.45	871.	ND	9.3	2296.	1.01	0.4	20.	ND	NC	200.	NC	NC
6.60	897.	ND	9.1	2226.	1.01	0.3	16.	ND	NC	206.	NC	NC
6.75	914.	ND	9.5	2342.	1.00	0.	0.	ND	NC	210.	NC	NC
6.90	908.	ND	9.5	2347.	1.00	0.	0.	ND	NC	209.	NC	NC
7.05	896.	ND	9.3	2280.	1.00	0.	0.	ND	NC	206.	NC	NC
7.20	880.	ND	9.5	2342.	1.00	0.	0.	ND	NC	202.	NC	NC
7.35	836.	ND	8.8	2160.	1.00	0.	0.	ND	NC	192.	NC	NC
7.50	731.	ND	6.0	1483.	1.00	0.	0.	ND	NC	168.	NC	NC
7.65	681.	ND	5.0	1241.	1.00	0.	0.	ND	NC	157.	NC	NC
7.80	704.	ND	5.2	1271.	1.00	0.	0.	ND	NC	162.	NC	NC
7.95	738.	ND	5.6	1384.	1.00	0.	0.	ND	NC	170.	NC	NC
8.10	766.	ND	7.1	1758.	1.01	0.4	17.	ND	NC	176.	NC	NC
8.25	771.	ND	7.6	1877.	1.02	1.0	40.	ND	NC	177.	NC	NC
8.40	889.	ND	7.8	1909.	1.01	0.7	31.	ND	NC	204.	NC	NC
8.55	1026.	ND	8.1	1992.	1.01	0.6	26.	ND	NC	236.	NC	NC
8.70	1177.	ND	8.7	2133.	1.00	0.	0.	ND	NC	271.	NC	NC
8.85	1251.	ND	9.3	2287.	1.00	0.	0.	ND	NC	288.	NC	NC
9.00	1232.	ND	9.5	2329.	1.00	0.	0.	ND	NC	283.	NC	NC
9.15	1221.	ND	9.6	2371.	1.00	0.	0.	ND	NC	281.	NC	NC
9.30	1261.	ND	10.1	2478.	1.01	0.4	22.	ND	NC	290.	NC	NC
9.45	1253.	ND	13.5	3328.	1.00	0.	0.	ND	NC	288.	NC	NC
9.60	1276.	ND	13.4	3299.	1.00	0.	0.	ND	NC	292.	NC	NC
9.75	1283.	ND	12.6	3099.	1.00	0.	0.	ND	NC	295.	NC	NC
9.90	1294.	ND	13.1	3214.	1.00	0.	0.	ND	NC	298.	NC	NC
10.05	1292.	ND	12.6	3096.	1.01	0.4	24.	ND	NC	297.	NC	NC
10.20	1355.	ND	11.3	2767.	1.00	0.	0.	ND	NC	312.	NC	NC
10.35	1372.	ND	11.9	2916.	1.00	0.	0.	ND	NC	316.	NC	NC
10.50	1354.	ND	12.7	3122.	1.00	0.	0.	ND	NC	311.	NC	NC
10.65	1316.	ND	12.4	3046.	1.00	0.	0.	ND	NC	303.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1291.	ND	11.7	2871.	1.00	0.	0.	ND	NC	297.	NC	NC
10.95	1275.	ND	12.7	3129.	1.00	0.	0.	ND	NC	293.	NC	NC
11.10	1258.	ND	12.7	3119.	1.00	0.	0.	ND	NC	289.	NC	NC
11.25	1273.	ND	12.1	2971.	1.00	0.	0.	ND	NC	293.	NC	NC
11.40	1249.	ND	12.3	3016.	1.00	0.	0.	ND	NC	287.	NC	NC
11.55	1243.	ND	11.8	2901.	1.00	0.	0.	ND	NC	286.	NC	NC
11.70	1237.	ND	10.7	2643.	1.00	0.	0.	ND	NC	284.	NC	NC
11.85	1232.	ND	10.5	2589.	1.00	0.	0.	ND	NC	283.	NC	NC
12.00	1234.	ND	10.4	2569.	1.10	5.7	320.	ND	NC	284.	NC	NC
12.15	1234.	ND	9.4	2313.	1.21	12.6	634.	ND	NC	284.	NC	NC
12.30	1197.	ND	8.1	2003.	1.11	6.3	277.	ND	NC	275.	NC	NC
12.45	1207.	ND	8.2	2019.	1.06	3.4	148.	ND	NC	277.	NC	NC
12.60	1219.	ND	8.4	2059.	1.10	6.0	258.	ND	NC	280.	NC	NC
12.75	1229.	ND	7.7	1892.	1.16	9.2	381.	ND	NC	283.	NC	NC
12.90	1275.	ND	7.7	1892.	1.09	5.3	218.	ND	NC	293.	NC	NC
13.05	1302.	ND	8.1	1984.	1.05	2.8	119.	ND	NC	300.	NC	NC
13.20	1317.	ND	8.3	2048.	1.13	7.7	343.	ND	NC	303.	NC	NC
13.35	1344.	ND	7.9	1951.	1.11	6.7	284.	ND	NC	309.	NC	NC
13.50	1396.	ND	8.8	2152.	1.05	2.7	128.	ND	NC	321.	NC	NC
13.65	1420.	ND	9.1	2226.	1.05	3.1	149.	ND	NC	327.	NC	NC
13.80	1468.	ND	8.7	2129.	1.06	3.8	178.	ND	NC	338.	NC	NC
13.95	1426.	ND	8.9	2178.	1.05	2.7	131.	ND	NC	328.	NC	NC
14.10	1354.	ND	9.5	2341.	1.01	0.6	32.	ND	NC	312.	NC	NC
14.25	1285.	ND	8.7	2127.	1.03	1.8	83.	ND	NC	296.	NC	NC
14.40	1262.	ND	8.5	2087.	1.03	1.6	72.	ND	NC	290.	NC	NC
14.55	1270.	ND	9.0	2216.	1.01	0.6	30.	ND	NC	292.	NC	NC
14.70	1284.	ND	10.0	2467.	1.00	0.	0.	ND	NC	295.	NC	NC
14.85	1266.	ND	10.1	2479.	1.00	0.	0.	ND	NC	291.	NC	NC
15.00	1239.	ND	10.0	2459.	1.00	0.	0.	ND	NC	285.	NC	NC
15.15	1239.	ND	9.8	2413.	1.00	0.	0.	ND	NC	285.	NC	NC
15.30	1205.	ND	9.3	2287.	1.00	0.	0.	ND	NC	277.	NC	NC
15.45	1215.	ND	8.8	2173.	1.00	0.	0.	ND	NC	279.	NC	NC
15.60	1221.	ND	8.9	2193.	1.00	0.	0.	ND	NC	281.	NC	NC
15.75	1198.	ND	8.8	2163.	1.00	0.	0.	ND	NC	276.	NC	NC
15.90	1190.	ND	8.7	2137.	1.00	0.	0.	ND	NC	274.	NC	NC
16.05	1207.	ND	8.7	2144.	1.00	0.	0.	ND	NC	278.	NC	NC
16.20	1244.	ND	9.2	2251.	1.00	0.	0.	ND	NC	286.	NC	NC
16.35	1283.	ND	9.5	2333.	1.00	0.	0.	ND	NC	295.	NC	NC
16.50	1297.	ND	9.7	2393.	1.00	0.	0.	ND	NC	298.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1329.	ND	9.6	2359.	1.00	0.	0.	ND	NC	306.	NC	NC
16.80	1339.	ND	10.6	2603.	1.00	0.	0.	ND	NC	308.	NC	NC
16.95	1330.	ND	11.2	2753.	1.00	0.	0.	ND	NC	306.	NC	NC
17.10	1370.	ND	11.0	2706.	1.00	0.	0.	ND	NC	315.	NC	NC
17.25	1398.	ND	11.0	2703.	1.10	6.0	355.	ND	NC	321.	NC	NC
17.40	1396.	ND	11.0	2697.	1.20	11.7	691.	ND	NC	321.	NC	NC
17.55	1274.	ND	10.8	2652.	1.16	9.2	534.	ND	NC	293.	NC	NC
17.70	1257.	ND	10.2	2503.	1.14	8.3	457.	ND	NC	289.	NC	NC
17.85	1262.	ND	9.1	2233.	1.20	11.9	580.	ND	NC	290.	NC	NC
18.00	1266.	ND	10.3	2521.	1.30	17.5	967.	ND	NC	291.	NC	NC
18.15	1228.	ND	11.5	2816.	1.24	13.9	855.	ND	NC	283.	NC	NC
18.30	1247.	ND	9.9	2423.	1.15	9.1	481.	ND	NC	287.	NC	NC
18.45	1258.	ND	8.7	2135.	1.34	20.0	932.	ND	NC	289.	NC	NC
18.60	1245.	ND	10.3	2534.	1.31	18.0	996.	ND	NC	286.	NC	NC
18.75	1223.	ND	11.1	2733.	1.13	7.9	471.	ND	NC	281.	NC	NC
18.90	1244.	ND	9.5	2332.	1.31	18.2	929.	ND	NC	286.	NC	NC
19.05	1224.	ND	9.2	2264.	1.37	21.5	1064.	ND	NC	281.	NC	NC
19.20	1194.	ND	11.1	2719.	1.23	13.8	821.	ND	NC	275.	NC	NC
19.35	1236.	ND	10.7	2631.	1.07	4.3	248.	ND	NC	284.	NC	NC
19.50	1256.	ND	9.2	2252.	1.34	19.9	975.	ND	NC	289.	NC	NC
19.65	1253.	ND	11.0	2702.	1.28	16.2	959.	ND	NC	288.	NC	NC
19.80	1279.	ND	11.1	2722.	1.07	4.3	256.	ND	NC	294.	NC	NC
19.95	1306.	ND	9.9	2422.	1.25	14.7	780.	ND	NC	300.	NC	NC
20.10	1323.	ND	9.5	2324.	1.35	20.5	1041.	ND	NC	304.	NC	NC
20.25	1349.	ND	10.8	2661.	1.12	6.9	398.	ND	NC	310.	NC	NC
20.40	1384.	ND	11.1	2730.	1.18	10.7	640.	ND	NC	318.	NC	NC
20.55	1412.	ND	10.2	2517.	1.28	16.5	910.	ND	NC	325.	NC	NC
20.70	1398.	ND	9.5	2341.	1.29	17.3	887.	ND	NC	321.	NC	NC
20.85	1288.	ND	12.2	2998.	1.09	5.6	364.	ND	NC	296.	NC	NC
21.00	1275.	ND	12.1	2973.	1.16	9.5	616.	ND	NC	293.	NC	NC
21.15	1273.	ND	10.4	2547.	1.28	16.4	911.	ND	NC	293.	NC	NC
21.30	1260.	ND	12.1	2973.	1.19	10.9	711.	ND	NC	290.	NC	NC
21.45	1269.	ND	13.0	3185.	1.09	5.5	386.	ND	NC	292.	NC	NC
21.60	1278.	ND	11.8	2894.	1.04	2.2	142.	ND	NC	294.	NC	NC
21.75	1267.	ND	11.3	2786.	1.01	0.5	31.	ND	NC	291.	NC	NC
21.90	1251.	ND	12.5	3069.	1.00	0.	0.	ND	NC	288.	NC	NC
22.05	1257.	ND	12.6	3107.	1.01	0.5	36.	ND	NC	289.	NC	NC
22.20	1257.	ND	12.7	3134.	1.10	5.8	398.	ND	NC	289.	NC	NC
22.35	1216.	ND	13.1	3231.	1.15	8.8	624.	ND	NC	280.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1226.	ND	12.1	2970.	1.02	1.3	86.	ND	NC	282.	NC	NC
22.65	1218.	ND	12.6	3106.	1.00	0.	0.	ND	NC	289.	NC	NC
22.80	1220.	ND	12.0	2953.	1.05	2.7	175.	ND	NC	281.	NC	NC
22.95	1259.	ND	12.1	2977.	1.00	0.	0.	ND	NC	289.	NC	NC
23.10	1263.	ND	12.8	3137.	1.00	0.	0.	ND	NC	296.	NC	NC
23.25	1254.	ND	13.4	3292.	1.00	0.	0.	ND	NC	288.	NC	NC
23.40	1233.	ND	13.9	3412.	1.00	0.	0.	ND	NC	284.	NC	NC
23.55	1284.	ND	13.2	3237.	1.00	0.	0.	ND	NC	295.	NC	NC
23.70	1302.	ND	14.1	3465.	1.00	0.	0.	ND	NC	299.	NC	NC
23.85	1306.	ND	14.1	3469.	1.00	0.	0.	ND	NC	300.	NC	NC
24.00	1332.	ND	13.5	3330.	1.01	0.4	30.	ND	NC	306.	NC	NC
24.15	1335.	ND	13.4	3304.	1.03	1.6	117.	ND	NC	307.	NC	NC
24.30	1313.	ND	13.9	3418.	1.06	3.3	248.	ND	NC	302.	NC	NC
24.45	1286.	ND	13.7	3381.	1.05	2.7	201.	ND	NC	296.	NC	NC
24.60	1266.	ND	13.6	3333.	1.04	2.4	176.	ND	NC	291.	NC	NC
24.75	1281.	ND	14.1	3463.	1.04	2.4	185.	ND	NC	295.	NC	NC
24.90	1273.	ND	14.3	3511.	1.03	2.0	153.	ND	NC	293.	NC	NC
25.05	1268.	ND	13.7	3369.	1.02	1.3	74.	ND	NC	292.	NC	NC
25.20	1272.	ND	13.7	3369.	1.01	0.5	35.	ND	NC	293.	NC	NC
25.35	1272.	ND	13.9	3422.	1.01	0.8	62.	ND	NC	292.	NC	NC
25.50	1260.	ND	13.9	3414.	1.00	0.	0.	ND	NC	293.	NC	NC
25.65	1256.	ND	13.2	3248.	1.00	0.	0.	ND	NC	289.	NC	NC
25.80	1258.	ND	13.2	3255.	1.00	0.	0.	ND	NC	289.	NC	NC
25.95	1248.	ND	13.4	3299.	1.01	0.6	46.	ND	NC	287.	NC	NC
26.10	1228.	ND	13.4	3307.	1.02	0.9	68.	ND	NC	283.	NC	NC
26.25	1264.	ND	12.6	3092.	1.01	0.7	46.	ND	NC	291.	NC	NC
26.40	1240.	ND	13.5	3320.	1.01	0.8	55.	ND	NC	285.	NC	NC
26.55	1248.	ND	13.5	3313.	1.02	1.1	77.	ND	NC	287.	NC	NC
26.70	1275.	ND	12.9	3171.	1.01	0.4	29.	ND	NC	293.	NC	NC
26.85	1295.	ND	13.1	3226.	1.00	0.	0.	ND	NC	298.	NC	NC
27.00	1288.	ND	13.5	3314.	1.01	0.8	57.	ND	NC	296.	NC	NC
27.15	1310.	ND	13.0	3201.	1.01	0.5	34.	ND	NC	301.	NC	NC
27.30	1347.	ND	12.1	2970.	1.00	0.	0.	ND	NC	310.	NC	NC
27.45	1337.	ND	13.4	3294.	1.02	1.1	80.	ND	NC	308.	NC	NC
27.60	1327.	ND	13.6	3347.	1.02	1.1	81.	ND	NC	305.	NC	NC
27.75	1311.	ND	12.7	3112.	1.01	0.6	37.	ND	NC	302.	NC	NC
27.90	1291.	ND	13.3	3282.	1.01	0.7	53.	ND	NC	297.	NC	NC
28.05	1285.	ND	13.4	3307.	1.03	1.6	118.	ND	NC	296.	NC	NC
28.20	1275.	ND	13.2	3258.	1.02	1.1	77.	ND	NC	293.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1269.	ND	13.5	3309.	1.00	0.	0.	ND	NC	292.	NC	NC
28.50	1276.	ND	13.6	3354.	1.02	0.9	68.	ND	NC	293.	NC	NC
28.65	1276.	ND	13.4	3300.	1.02	1.3	92.	ND	NC	293.	NC	NC
28.80	1255.	ND	13.3	3259.	1.01	0.6	45.	ND	NC	289.	NC	NC
28.95	1285.	ND	13.0	3196.	1.00	0.	0.	ND	NC	296.	NC	NC
29.10	1242.	ND	13.4	3301.	1.01	0.7	51.	ND	NC	286.	NC	NC
29.25	1223.	ND	13.3	3281.	1.00	0.	0.	ND	NC	281.	NC	NC
29.40	1242.	ND	12.8	3159.	1.00	0.	0.	ND	NC	286.	NC	NC
29.55	1250.	ND	13.1	3225.	1.00	0.	0.	ND	NC	287.	NC	NC
29.70	1239.	ND	13.7	3369.	1.00	0.	0.	ND	NC	285.	NC	NC
29.85	1244.	ND	13.1	3218.	1.00	0.	0.	ND	NC	286.	NC	NC
30.01	1263.	ND	12.4	3049.	1.00	0.	0.	ND	NC	290.	NC	NC
30.15	1278.	ND	13.7	3377.	1.00	0.	0.	ND	NC	294.	NC	NC
30.30	1275.	ND	13.6	3336.	1.00	0.	0.	ND	NC	293.	NC	NC
30.45	1304.	ND	12.5	3079.	1.00	0.	0.	ND	NC	300.	NC	NC
30.60	1308.	ND	13.6	3349.	1.00	0.	0.	ND	NC	301.	NC	NC
30.75	1319.	ND	14.1	3478.	1.00	0.	0.	ND	NC	303.	NC	NC
30.90	1342.	ND	13.9	3428.	1.03	1.6	120.	ND	NC	309.	NC	NC
31.05	1352.	ND	13.0	3188.	1.07	4.0	282.	ND	NC	311.	NC	NC
31.20	1310.	ND	13.7	3367.	1.03	2.0	148.	ND	NC	301.	NC	NC
31.35	1283.	ND	13.8	3402.	1.02	1.4	106.	ND	NC	295.	NC	NC
31.50	1268.	ND	13.2	3236.	1.05	2.8	201.	ND	NC	292.	NC	NC
31.65	1283.	ND	13.5	3314.	1.07	3.9	285.	ND	NC	295.	NC	NC
31.80	1267.	ND	14.3	3523.	1.04	2.3	176.	ND	NC	291.	NC	NC
31.95	1273.	ND	13.8	3388.	1.03	1.8	135.	ND	NC	293.	NC	NC
32.10	1279.	ND	13.4	3297.	1.06	3.6	257.	ND	NC	294.	NC	NC
32.25	1279.	ND	13.7	3369.	1.12	6.9	507.	ND	NC	294.	NC	NC
32.40	1259.	ND	13.7	3362.	1.07	4.2	306.	ND	NC	290.	NC	NC
32.55	1239.	ND	13.0	3205.	1.05	3.2	223.	ND	NC	285.	NC	NC
32.70	1229.	ND	13.2	3235.	1.08	4.4	312.	ND	NC	283.	NC	NC
32.85	1224.	ND	13.5	3331.	1.09	5.5	398.	ND	NC	282.	NC	NC
33.00	1225.	ND	13.4	3303.	1.04	2.5	180.	ND	NC	282.	NC	NC
33.15	1242.	ND	12.4	3046.	1.07	4.1	272.	ND	NC	286.	NC	NC
33.30	1239.	ND	13.0	3192.	1.14	8.5	590.	ND	NC	285.	NC	NC
33.45	1244.	ND	13.5	3315.	1.06	3.5	251.	ND	NC	286.	NC	NC
33.60	1263.	ND	13.2	3237.	1.06	3.7	258.	ND	NC	290.	NC	NC
33.75	1285.	ND	12.6	3088.	1.15	8.8	592.	ND	NC	296.	NC	NC
33.90	1291.	ND	12.9	3170.	1.15	9.1	628.	ND	NC	297.	NC	NC
34.05	1306.	ND	12.9	3165.	1.11	6.7	461.	ND	NC	300.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.2[illegible]	1345.	ND	12.2	3006.	1.09	5.4	354.	ND	NC	309.	NC	NC
34.35	1345.	ND	12.9	3166.	1.14	8.2	566.	ND	NC	309.	NC	NC
34.50	1319.	ND	13.2	3255.	1.13	7.7	550.	ND	NC	303.	NC	NC
34.65	1288.	ND	12.8	3140.	1.06	3.5	240.	ND	NC	295.	NC	NC
34.8[illegible]	1269.	ND	12.8	3150.	1.12	6.9	477.	ND	NC	292.	NC	NC
34.95	1272.	ND	13.2	3236.	1.16	10.4	737.	ND	NC	293.	NC	NC
35.1[illegible]	1266.	ND	13.3	3272.	1.08	5.0	357.	ND	NC	291.	NC	NC
35.25	1250.	ND	13.2	3238.	1.08	4.8	340.	ND	NC	288.	NC	NC
35.4[illegible]	1241.	ND	13.2	3240.	1.12	7.0	494.	ND	NC	286.	NC	NC
35.55	1264.	ND	13.4	3293.	1.14	8.3	599.	ND	NC	291.	NC	NC
35.7[illegible]	1261.	ND	13.4	3294.	1.08	4.9	353.	ND	NC	290.	NC	NC
35.85	1256.	ND	12.9	3161.	1.09	5.2	359.	ND	NC	289.	NC	NC
36.0[illegible]	1240.	ND	13.0	3201.	1.14	8.5	593.	ND	NC	285.	NC	NC
36.15	1222.	ND	13.3	3258.	1.09	5.4	381.	ND	NC	281.	NC	NC
36.3[illegible]	1219.	ND	12.8	3154.	1.03	1.9	130.	ND	NC	280.	NC	NC
36.45	1221.	ND	12.8	3154.	1.11	6.3	435.	ND	NC	281.	NC	NC
36.6[illegible]	1224.	ND	13.2	3256.	1.07	4.3	306.	ND	NC	282.	NC	NC
36.75	1229.	ND	13.2	3242.	1.04	2.1	148.	ND	NC	283.	NC	NC
36.9[illegible]	1246.	ND	12.6	3096.	1.03	1.9	129.	ND	NC	287.	NC	NC
37.05	1266.	ND	13.0	3195.	1.08	4.4	309.	ND	NC	291.	NC	NC
37.2[illegible]	1264.	ND	13.5	3308.	1.04	2.2	163.	ND	NC	291.	NC	NC
37.35	1290.	ND	12.4	3042.	1.01	0.6	39.	ND	NC	297.	NC	NC
37.5[illegible]	1295.	ND	13.3	3270.	1.05	2.8	199.	ND	NC	298.	NC	NC
37.65	1301.	ND	13.8	3386.	1.06	3.5	257.	ND	NC	299.	NC	NC
37.80	1345.	ND	13.0	3195.	1.00	0.	0.	ND	NC	309.	NC	NC
37.95	1338.	ND	13.0	3204.	1.01	0.4	27.	ND	NC	308.	NC	NC
38.1[illegible]	1309.	ND	13.6	3340.	1.02	1.4	99.	ND	NC	301.	NC	NC
38.25	1286.	ND	13.6	3355.	1.02	1.3	92.	ND	NC	296.	NC	NC
38.40	1248.	ND	13.1	3234.	1.00	0.	0.	ND	NC	287.	NC	NC
38.55	1267.	ND	13.7	3379.	1.00	0.	0.	ND	NC	291.	NC	NC
38.70	1263.	ND	13.9	3418.	1.00	0.	0.	ND	NC	290.	NC	NC
38.85	1252.	ND	13.9	3414.	1.00	0.	0.	ND	NC	288.	NC	NC
39.0[illegible]	1250.	ND	14.0	3445.	1.00	0.	0.	ND	NC	287.	NC	NC
39.15	1254.	ND	13.8	3398.	1.00	0.	0.	ND	NC	288.	NC	NC
39.3[illegible]	1242.	ND	13.7	3381.	1.00	0.	0.	ND	NC	286.	NC	NC
39.45	1233.	ND	13.7	3372.	1.00	0.	0.	ND	NC	284.	NC	NC
39.60	1225.	ND	13.7	3369.	1.00	0.	0.	ND	NC	282.	NC	NC
39.75	1213.	ND	14.1	3476.	1.00	0.	0.	ND	NC	279.	NC	NC
39.9[illegible]	1210.	ND	14.0	3453.	1.00	0.	0.	ND	NC	278.	NC	NC

RUN NUMBER- 43
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1232.	ND	13.2	3235.	1.00	0.	0.	ND	NC	283.	NC	NC
40.20	1212.	ND	14.5	3577.	1.00	0.	0.	ND	NC	279.	NC	NC
40.35	1196.	ND	14.7	3613.	1.00	0.	0.	ND	NC	275.	NC	NC
40.50	1235.	ND	12.7	3116.	1.00	0.	0.	ND	NC	284.	NC	NC
40.65	1251.	ND	13.3	3263.	1.00	0.	0.	ND	NC	288.	NC	NC
40.80	1241.	ND	14.0	3449.	1.00	0.	0.	ND	NC	285.	NC	NC
40.95	1239.	ND	14.0	3438.	1.00	0.	0.	ND	NC	285.	NC	NC
41.10	1300.	ND	13.7	3371.	1.00	0.	0.	ND	NC	299.	NC	NC
41.25	1296.	ND	14.5	3561.	1.00	0.	0.	ND	NC	298.	NC	NC
41.40	1280.	ND	14.1	3479.	1.00	0.	0.	ND	NC	294.	NC	NC
41.55	1281.	ND	13.6	3344.	1.00	0.	0.	ND	NC	295.	NC	NC
41.70	1264.	ND	14.2	3482.	1.00	0.	0.	ND	NC	291.	NC	NC
41.85	1245.	ND	14.5	3569.	1.00	0.	0.	ND	NC	286.	NC	NC
42.00	1240.	ND	14.0	3433.	1.00	0.	0.	ND	NC	285.	NC	NC
42.15	1240.	ND	14.1	3463.	1.00	0.	0.	ND	NC	285.	NC	NC
42.30	1241.	ND	14.5	3560.	1.00	0.	0.	ND	NC	285.	NC	NC
42.45	1232.	ND	14.3	3514.	1.00	0.	0.	ND	NC	283.	NC	NC
42.60	1243.	ND	14.0	3432.	1.00	0.	0.	ND	NC	286.	NC	NC
42.75	1255.	ND	13.8	3403.	1.00	0.	0.	ND	NC	289.	NC	NC
42.90	1229.	ND	13.7	3365.	1.00	0.	0.	ND	NC	283.	NC	NC
43.05	1209.	ND	13.8	3395.	1.00	0.	0.	ND	NC	278.	NC	NC
43.20	1215.	ND	13.3	3264.	1.00	0.	0.	ND	NC	279.	NC	NC
43.35	1208.	ND	13.3	3268.	1.00	0.	0.	ND	NC	278.	NC	NC
43.50	1193.	ND	12.3	3016.	1.00	0.	0.	ND	NC	274.	NC	NC
43.65	1177.	ND	10.7	2630.	1.00	0.	0.	ND	NC	271.	NC	NC
43.80	1238.	ND	8.9	2197.	1.00	0.	0.	ND	NC	285.	NC	NC
43.95	1294.	ND	9.9	2439.	1.02	1.0	51.	ND	NC	298.	NC	NC
44.10	1286.	ND	11.1	2722.	1.03	1.6	92.	ND	NC	296.	NC	NC
44.25	1326.	ND	10.8	2658.	1.00	0.	0.	ND	NC	305.	NC	NC
44.40	1330.	ND	11.4	2804.	1.00	0.	0.	ND	NC	306.	NC	NC
44.55	1348.	ND	10.7	2635.	1.03	1.7	101.	ND	NC	310.	NC	NC
44.70	1386.	ND	10.2	2507.	1.01	0.4	21.	ND	NC	319.	NC	NC
44.85	1378.	ND	10.8	2646.	1.00	0.	0.	ND	NC	317.	NC	NC
45.00	1326.	ND	12.0	2939.	1.00	0.	0.	ND	NC	305.	NC	NC
45.15	1282.	ND	12.2	3012.	1.00	0.	0.	ND	NC	295.	NC	NC
45.30	1265.	ND	12.3	3021.	1.00	0.	0.	ND	NC	291.	NC	NC
45.45	1268.	ND	13.0	3195.	1.00	0.	0.	ND	NC	292.	NC	NC
45.60	1252.	ND	12.8	3137.	1.00	0.	0.	ND	NC	288.	NC	NC
45.75	1231.	ND	12.2	3002.	1.00	0.	0.	ND	NC	283.	NC	NC
45.90	1231.	ND	13.0	3201.	1.00	0.	0.	ND	NC	283.	NC	NC

LOCATION- SUNNY POINT
DATE OF TEST- 10 5 78
RUN NUMBER- 44
SEGMENT NUMBER- 1
WATER DEPTH- 12 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	168.	ND	0.3	65.	1.01	0.6	1.	4.0	9.3	39.	0.	0.01
0.15	215.	ND	0.3	79.	1.01	0.6	1.	5.9	13.6	49.	0.	0.01
0.30	236.	ND	0.3	71.	1.01	0.4	1.	7.1	16.3	54.	0.	0.01
0.45	303.	ND	0.3	71.	1.01	0.4	1.	7.7	17.7	70.	0.	0.00
0.60	366.	ND	0.3	85.	1.01	0.4	1.	7.7	17.7	84.	0.	0.00
0.75	436.	ND	2.3	569.	1.01	0.4	5.	8.0	18.5	99.	3.	0.03
0.90	527.	ND	7.0	1732.	1.01	0.4	15.	8.0	19.2	121.	8.	0.07
1.05	553.	ND	10.5	2593.	1.00	0.	0.	6.2	16.1	127.	11.	0.08
1.20	529.	ND	10.7	2636.	1.01	0.8	47.	6.4	16.6	122.	11.	0.09
1.35	556.	ND	10.7	2643.	1.03	1.6	95.	6.2	16.1	128.	11.	0.08
1.50	542.	ND	11.4	2797.	1.03	1.6	98.	5.7	15.1	125.	11.	0.09
1.65	532.	ND	11.7	2872.	1.03	1.5	95.	5.4	14.5	122.	11.	0.09
1.80	537.	ND	11.7	2882.	1.02	1.4	87.	5.9	15.7	124.	11.	0.09
1.95	543.	ND	12.0	2944.	1.03	1.5	95.	4.8	13.3	125.	10.	0.08
2.10	553.	ND	12.5	3067.	1.03	1.6	104.	4.0	11.6	127.	9.	0.07
2.25	526.	ND	11.8	2906.	1.02	1.4	91.	3.9	11.2	120.	8.	0.07
2.40	536.	ND	11.6	2851.	1.02	1.4	85.	5.3	14.3	123.	10.	0.08
2.55	539.	ND	11.8	2908.	1.02	1.4	91.	6.2	16.6	124.	12.	0.10
2.70	536.	ND	11.9	2939.	1.03	1.5	97.	5.9	15.8	123.	12.	0.10
2.85	554.	ND	10.7	2631.	1.02	1.4	82.	5.2	13.9	128.	9.	0.07
3.00	563.	ND	11.0	2708.	1.02	1.4	85.	5.2	13.9	129.	10.	0.07
3.15	566.	ND	11.1	2736.	1.02	1.4	81.	6.5	17.2	130.	12.	0.09
3.30	564.	ND	10.2	2503.	1.02	1.4	77.	5.8	15.0	130.	10.	0.07
3.45	573.	ND	10.0	2459.	1.02	1.4	73.	6.7	16.9	132.	11.	0.08
3.60	591.	ND	10.9	2676.	1.02	1.3	76.	6.7	17.3	136.	12.	0.09
3.75	579.	ND	10.2	2501.	1.02	1.0	56.	6.8	17.2	133.	11.	0.08
3.90	569.	ND	9.8	2412.	1.01	0.8	41.	7.2	18.1	131.	11.	0.08
4.05	563.	ND	10.5	2585.	1.02	0.9	50.	7.5	19.1	130.	12.	0.10
4.20	542.	ND	10.2	2518.	1.02	1.3	69.	7.5	19.0	125.	12.	0.10
4.35	507.	ND	9.6	2365.	1.02	0.9	46.	7.5	18.8	117.	11.	0.10
4.50	501.	ND	9.8	2421.	1.01	0.8	41.	7.6	18.9	115.	12.	0.10
4.65	459.	ND	7.9	1938.	1.02	1.5	61.	7.6	18.4	105.	9.	0.09
4.80	376.	ND	5.1	1255.	1.03	1.6	43.	7.6	17.8	86.	6.	0.07

RUN NUMBER- 44
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	332.	ND	3.2	783.	1.03	1.5	26.	7.8	18.1	76.	4.	0.05
5.10	390.	ND	3.0	728.	1.02	1.2	19.	8.0	18.6	90.	3.	0.04
5.25	449.	ND	5.0	1223.	1.02	1.1	29.	8.2	19.3	103.	6.	0.06
5.40	458.	ND	5.2	1281.	1.02	1.3	36.	8.1	19.2	105.	6.	0.06
5.55	607.	ND	5.6	1380.	1.09	5.0	152.	7.7	18.3	140.	6.	0.05
5.70	763.	ND	5.6	1387.	1.08	4.7	143.	7.3	17.4	175.	6.	0.03
5.85	750.	ND	6.3	1543.	1.11	6.2	209.	7.5	18.0	172.	7.	0.04
6.00	857.	ND	6.9	1687.	1.14	8.2	302.	7.6	18.3	197.	8.	0.04
6.15	907.	ND	7.3	1791.	1.12	7.0	274.	7.6	18.4	209.	8.	0.04
6.30	906.	ND	6.7	1636.	1.14	8.3	296.	7.8	18.7	208.	8.	0.04
6.45	901.	ND	5.5	1363.	1.18	10.7	320.	7.8	18.5	207.	6.	0.03
6.60	926.	ND	5.3	1301.	1.17	10.3	292.	7.7	18.1	213.	6.	0.03
6.75	959.	ND	5.5	1351.	1.13	7.7	226.	7.8	18.4	221.	6.	0.03
6.90	1007.	ND	5.4	1328.	1.14	8.3	241.	8.0	18.8	232.	6.	0.03
7.05	1134.	ND	4.9	1194.	1.18	10.6	275.	8.0	18.7	261.	6.	0.02
7.20	1071.	ND	6.0	1470.	1.18	10.6	339.	8.0	18.9	246.	7.	0.03
7.35	1035.	ND	7.5	1844.	1.19	10.9	441.	8.0	19.3	238.	9.	0.04
7.50	1015.	ND	8.0	1976.	1.23	13.7	593.	8.0	19.4	233.	10.	0.04
7.65	893.	ND	8.0	1966.	1.23	13.3	572.	8.0	19.4	205.	10.	0.05
7.80	907.	ND	8.0	1965.	1.25	14.6	627.	8.2	19.9	209.	10.	0.05
7.95	890.	ND	8.0	1976.	1.27	16.0	692.	8.3	20.2	205.	10.	0.05
8.10	865.	ND	7.7	1888.	1.28	16.7	689.	8.1	19.6	199.	10.	0.05
8.25	1094.	ND	7.2	1774.	1.28	16.3	631.	8.0	19.3	252.	9.	0.03
8.40	1269.	ND	7.1	1738.	1.29	16.9	643.	8.1	19.4	292.	9.	0.03
8.55	1269.	ND	7.5	1838.	1.30	17.7	710.	8.4	20.1	292.	9.	0.03
8.70	1268.	ND	7.5	1834.	1.29	17.2	687.	8.1	19.6	292.	9.	0.03
8.85	1267.	ND	5.8	1683.	1.30	17.6	648.	7.9	18.9	291.	8.	0.03
9.00	1254.	ND	6.5	1596.	1.32	18.7	651.	7.7	18.5	288.	8.	0.03
9.15	1257.	ND	6.5	1602.	1.32	18.6	650.	7.8	18.7	289.	8.	0.03
9.30	1292.	ND	6.5	1596.	1.32	18.6	649.	8.0	19.2	297.	8.	0.03
9.45	1292.	ND	6.8	1677.	1.32	18.7	686.	8.2	19.7	297.	8.	0.03
9.60	1321.	ND	6.5	1604.	1.32	18.9	662.	8.0	19.1	304.	8.	0.03
9.75	1396.	ND	6.1	1495.	1.34	19.8	647.	8.1	19.1	321.	7.	0.02
9.90	1442.	ND	6.1	1512.	1.35	20.4	675.	7.9	18.9	332.	7.	0.02
10.05	1516.	ND	5.7	1409.	1.34	19.9	612.	7.8	18.4	349.	7.	0.02
10.20	1619.	ND	5.3	1303.	1.35	20.6	587.	7.5	17.8	372.	6.	0.02
10.35	1571.	ND	5.8	1420.	1.35	20.7	643.	7.8	18.4	361.	7.	0.02
10.50	1584.	ND	6.3	1561.	1.35	20.4	696.	7.6	18.2	364.	7.	0.02
10.65	1377.	ND	6.2	1521.	1.32	19.1	635.	7.9	18.8	317.	7.	0.02

RUN NUMBER- 44
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	1301.	ND	5.5	1361.	1.33	19.2	570.	8.1	19.3	299.	7.	0.02
10.95	1310.	ND	6.0	1475.	1.36	21.0	675.	7.9	18.9	301.	7.	0.02
11.10	1332.	ND	7.6	1862.	1.30	17.8	722.	7.7	18.7	306.	9.	0.03
11.25	1296.	ND	6.6	1619.	1.21	12.4	439.	7.5	18.0	298.	7.	0.02
11.40	1301.	ND	6.0	1469.	1.34	19.9	638.	7.6	18.2	299.	7.	0.02
11.55	1319.	ND	8.2	2008.	1.34	20.1	880.	7.9	19.2	303.	10.	0.03
11.70	1285.	ND	7.4	1810.	1.17	9.9	391.	7.9	19.0	296.	9.	0.03
11.85	1259.	ND	6.4	1568.	1.29	17.2	589.	7.9	18.8	289.	8.	0.03
12.00	1281.	ND	6.6	1625.	1.34	19.9	708.	8.0	19.2	295.	8.	0.03
12.15	1257.	ND	7.9	1930.	1.36	21.0	886.	8.2	19.9	289.	10.	0.03
12.30	1263.	ND	7.0	1715.	1.23	13.8	516.	8.1	19.5	290.	9.	0.03
12.45	1332.	ND	6.7	1657.	1.30	17.9	647.	8.0	19.2	306.	8.	0.03
12.60	1325.	ND	8.1	1989.	1.33	19.2	836.	8.1	19.8	305.	10.	0.03
12.75	1325.	ND	8.1	1982.	1.28	16.2	702.	7.9	19.3	305.	10.	0.03
12.90	1345.	ND	6.9	1706.	1.25	14.7	546.	7.9	19.0	309.	8.	0.03
13.05	1414.	ND	7.4	1815.	1.37	21.9	868.	7.7	18.5	325.	9.	0.03
13.20	1449.	ND	8.2	2018.	1.26	15.4	678.	7.9	19.3	333.	10.	0.03
13.35	1455.	ND	7.9	1939.	1.21	12.6	533.	7.4	18.0	335.	9.	0.03
13.50	1372.	ND	6.5	1603.	1.25	14.5	507.	7.7	18.5	316.	8.	0.02
13.65	1332.	ND	6.9	1701.	1.23	13.7	510.	7.8	18.7	306.	8.	0.03
13.80	1324.	ND	7.8	1926.	1.01	0.7	27.	7.5	18.3	305.	9.	0.03
13.95	1273.	ND	9.7	2387.	1.02	1.3	69.	7.5	18.8	293.	11.	0.04
14.10	1240.	ND	8.4	2069.	1.02	1.1	52.	8.0	19.5	285.	10.	0.04
14.25	1243.	ND	7.1	1754.	1.01	0.7	26.	7.4	17.9	286.	8.	0.03
14.40	1268.	ND	12.4	3053.	1.00	0.	0.	5.8	15.8	292.	12.	0.04
14.55	1184.	ND	10.6	2610.	1.01	0.5	29.	6.7	17.3	272.	11.	0.04
14.70	1182.	ND	7.3	1792.	1.01	0.4	17.	7.6	18.3	272.	8.	0.03
14.85	1210.	ND	9.4	2309.	1.01	0.4	19.	6.4	16.1	278.	9.	0.03
15.00	1179.	ND	12.5	3069.	1.01	0.5	30.	6.4	17.2	271.	13.	0.05
15.15	1124.	ND	8.0	1963.	1.01	0.4	16.	6.9	17.0	258.	8.	0.03
15.30	1180.	ND	8.2	2023.	1.00	0.	0.	6.1	15.0	271.	8.	0.03
15.45	1201.	ND	14.4	3532.	1.00	0.	0.	4.7	14.0	276.	13.	0.05
15.60	1231.	ND	14.2	3484.	1.05	2.9	221.	7.1	19.6	283.	17.	0.06
15.75	1246.	ND	9.5	2341.	1.01	0.4	19.	8.4	20.7	286.	12.	0.04
15.90	1234.	ND	12.5	3083.	1.00	0.	0.	6.5	17.4	284.	14.	0.05
16.05	1223.	ND	13.9	3418.	1.03	1.8	134.	7.5	20.3	281.	18.	0.06
16.20	1296.	ND	13.3	3275.	1.04	2.1	149.	7.8	20.7	298.	17.	0.06
16.35	1289.	ND	14.4	3540.	1.01	0.7	51.	7.4	20.2	296.	18.	0.06
16.50	1297.	ND	15.1	3721.	1.04	2.5	206.	7.0	19.8	298.	19.	0.06

RUN NUMBER- 44
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	1275.	ND	13.0	3202.	1.07	4.1	284.	7.5	19.8	293.	16.	0.06
16.80	1303.	ND	12.0	2950.	1.01	0.5	32.	7.8	20.1	300.	15.	0.05
16.95	1286.	ND	14.4	3545.	1.01	0.4	34.	7.2	19.8	296.	18.	0.06
17.10	1253.	ND	14.5	3570.	1.08	4.6	359.	7.1	19.6	288.	18.	0.06
17.25	1075.	ND	9.5	2325.	1.02	0.9	46.	7.4	18.5	247.	11.	0.04
17.40	982.	ND	7.6	1878.	1.01	0.3	14.	7.2	17.6	226.	8.	0.04
17.55	983.	ND	11.2	2750.	1.01	0.4	23.	5.9	15.6	226.	11.	0.05
17.70	951.	ND	10.2	2496.	1.01	0.4	23.	6.5	16.5	219.	10.	0.05
17.85	944.	ND	7.6	1880.	1.00	0.	0.	6.9	16.9	217.	8.	0.04
18.00	971.	ND	9.5	2334.	1.00	0.	0.	6.5	16.3	223.	10.	0.04
18.15	972.	ND	12.9	3182.	1.01	0.4	29.	6.7	18.2	223.	15.	0.07
18.30	989.	ND	12.8	3160.	1.04	2.1	143.	7.2	19.1	227.	15.	0.07
18.45	988.	ND	13.3	3277.	1.06	3.4	242.	7.8	20.7	227.	17.	0.08
18.60	981.	ND	14.4	3540.	1.01	0.3	27.	6.6	18.4	226.	16.	0.07
18.75	1000.	ND	13.4	3290.	1.01	0.6	42.	5.4	15.3	230.	13.	0.06
18.90	1020.	ND	13.6	3343.	1.10	5.8	424.	3.9	11.9	235.	10.	0.04
19.05	995.	ND	15.0	3682.	1.04	2.5	205.	4.5	13.9	229.	13.	0.06
19.20	990.	ND	15.2	3732.	1.02	1.3	110.	5.8	16.9	228.	16.	0.07
19.35	1022.	ND	14.2	3489.	1.01	0.8	62.	6.4	17.8	235.	16.	0.07
19.50	1024.	ND	14.0	3433.	1.01	0.6	43.	7.1	19.4	236.	17.	0.07
19.65	1025.	ND	11.0	2713.	1.01	0.7	39.	7.8	19.8	235.	14.	0.06
19.80	1016.	ND	12.0	2952.	1.00	0.	0.	7.9	20.5	234.	15.	0.07
19.95	1001.	ND	11.1	2741.	1.00	0.	0.	7.6	19.5	230.	14.	0.06
20.10	1000.	ND	10.8	2663.	1.00	0.	0.	7.3	18.7	230.	13.	0.05
20.25	993.	ND	12.5	3079.	1.01	0.3	23.	7.3	19.4	228.	15.	0.07
20.40	982.	ND	11.8	2896.	1.01	0.3	20.	7.8	20.2	226.	15.	0.07
20.55	991.	ND	11.4	2806.	1.00	0.	0.	7.4	19.1	228.	14.	0.06
20.70	977.	ND	13.3	3279.	1.00	0.	0.	6.9	18.8	225.	16.	0.07
20.85	969.	ND	13.4	3292.	1.00	0.	0.	6.5	17.8	223.	15.	0.07
21.00	994.	ND	10.7	2622.	1.01	0.4	24.	7.4	18.8	229.	12.	0.05
21.15	973.	ND	15.3	3759.	1.00	0.	0.	7.4	20.6	224.	20.	0.09
21.30	955.	ND	11.6	2848.	1.00	0.	0.	7.4	19.1	220.	14.	0.06
21.45	964.	ND	12.4	3057.	1.00	0.	0.	7.0	18.6	222.	14.	0.06
21.60	994.	ND	14.7	3625.	1.01	0.4	29.	6.8	19.1	229.	17.	0.08
21.75	990.	ND	15.1	3723.	1.01	0.5	39.	6.3	18.0	228.	17.	0.07
21.90	991.	ND	14.7	3614.	1.01	0.4	30.	6.3	18.3	228.	16.	0.07
22.05	1031.	ND	14.1	3455.	1.01	0.4	27.	6.5	18.2	237.	16.	0.07
22.20	1019.	ND	15.0	3687.	1.01	0.6	45.	7.1	19.9	234.	19.	0.08
22.35	1006.	ND	14.8	3637.	1.01	0.5	41.	7.1	19.8	231.	18.	0.08

RUN NUMBER- 44
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	1063.	ND	13.5	3328.	1.01	0.6	46.	6.9	18.7	244.	16.	0.06
22.65	1051.	ND	14.3	3508.	1.01	0.8	59.	7.1	19.6	242.	17.	0.07
22.80	1055.	ND	14.1	3473.	1.01	0.4	31.	7.4	20.3	243.	18.	0.07
22.95	1089.	ND	13.8	3392.	1.01	0.5	34.	7.6	20.4	250.	18.	0.07
23.10	1156.	ND	13.3	3267.	1.01	0.3	25.	7.9	21.0	266.	17.	0.07
23.25	1183.	ND	14.1	3477.	1.00	0.	0.	8.1	21.7	272.	19.	0.07
23.40	1192.	ND	14.4	3551.	1.00	0.	0.	8.1	21.9	274.	20.	0.07
23.55	1185.	ND	14.2	3501.	1.01	0.3	23.	8.1	21.9	272.	19.	0.07
23.70	1167.	ND	14.7	3610.	1.01	0.5	40.	8.3	22.5	268.	21.	0.08
23.85	1167.	ND	14.7	3612.	1.01	0.3	24.	8.1	22.1	268.	20.	0.08
24.00	1163.	ND	14.3	3525.	1.00	0.	0.	8.4	22.6	268.	20.	0.09
24.15	1158.	ND	14.2	3486.	1.00	0.	0.	8.2	22.0	266.	19.	0.07
24.30	1166.	ND	14.3	3511.	1.01	0.4	27.	7.9	21.4	268.	19.	0.07
24.45	1138.	ND	14.4	3553.	1.01	0.3	24.	8.1	22.0	262.	20.	0.08
24.60	1128.	ND	14.0	3441.	1.00	0.	0.	7.3	19.9	260.	17.	0.07
24.75	1146.	ND	13.6	3341.	1.00	0.	0.	7.4	19.9	264.	17.	0.06
24.90	1147.	ND	14.5	3569.	1.01	0.3	27.	7.5	20.6	264.	19.	0.07
25.05	1070.	ND	13.5	3327.	1.01	0.5	35.	7.1	19.3	246.	16.	0.07
25.20	632.	ND	11.1	2718.	1.00	0.	0.	6.2	16.1	145.	11.	0.08
25.35	481.	ND	9.8	2408.	1.00	0.	0.	7.6	19.0	111.	12.	0.10
25.50	489.	ND	9.6	2360.	1.01	0.3	17.	7.9	19.6	112.	12.	0.10
25.65	493.	ND	8.2	2026.	1.01	0.4	18.	7.5	18.7	113.	10.	0.08
25.80	487.	ND	8.8	2174.	1.01	0.4	17.	7.6	18.7	112.	10.	0.09
25.95	492.	ND	9.4	2310.	1.01	0.6	29.	7.6	18.9	113.	11.	0.10
26.10	484.	ND	9.7	2388.	1.01	0.8	44.	7.4	18.6	111.	11.	0.10
26.25	461.	ND	9.5	2341.	1.02	0.9	47.	7.3	18.2	106.	11.	0.10
26.40	452.	ND	9.0	2218.	1.01	0.7	34.	7.3	18.1	104.	10.	0.10
26.55	447.	ND	9.0	2208.	1.02	1.3	60.	7.6	18.8	103.	11.	0.10
26.70	422.	ND	7.3	1807.	1.02	1.1	43.	7.6	18.4	97.	8.	0.09
26.85	392.	ND	5.9	1453.	1.02	0.9	28.	7.6	18.1	90.	7.	0.07
27.00	392.	ND	5.8	1426.	1.03	1.6	49.	7.7	18.2	90.	7.	0.07
27.15	427.	ND	6.9	1704.	1.03	1.6	60.	7.7	18.4	98.	8.	0.08
27.30	416.	ND	7.6	1878.	1.04	2.5	101.	7.7	18.6	96.	9.	0.09
27.45	436.	ND	7.9	1933.	1.04	2.5	104.	7.8	18.9	100.	9.	0.09
27.60	441.	ND	8.0	1962.	1.07	4.1	177.	8.0	19.5	101.	10.	0.10
27.75	430.	ND	7.2	1760.	1.09	5.5	213.	8.2	19.8	99.	9.	0.09
27.90	578.	ND	7.8	1925.	1.06	3.5	145.	8.0	19.4	133.	9.	0.07
28.05	683.	ND	9.8	2403.	1.04	2.1	110.	8.0	19.9	157.	12.	0.08
28.20	725.	ND	10.4	2568.	1.08	4.8	267.	8.0	20.1	167.	13.	0.08

RUN NUMBER- 44
SEGMENT NUMBER- 1

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	759.	ND	10.5	2572.	1.06	3.4	189.	7.7	19.6	174.	13.	0.07
28.50	744.	ND	10.7	2635.	1.03	1.8	103.	7.3	18.6	171.	12.	0.07
28.65	757.	ND	10.8	2665.	1.04	2.5	146.	7.3	18.7	174.	13.	0.07
28.80	757.	ND	11.0	2694.	1.04	2.6	154.	7.6	19.3	174.	13.	0.08
28.95	774.	ND	10.8	2662.	1.03	1.8	106.	7.7	19.6	178.	13.	0.07
29.10	800.	ND	11.4	2807.	1.03	1.8	109.	7.5	19.4	184.	14.	0.08
29.25	783.	ND	11.4	2807.	1.03	1.5	93.	7.3	18.8	180.	13.	0.07
29.40	753.	ND	10.9	2674.	1.02	0.9	54.	7.7	19.6	173.	13.	0.08
29.55	749.	ND	11.2	2761.	1.01	0.9	53.	7.7	19.8	172.	14.	0.08
29.70	736.	ND	11.6	2863.	1.03	1.6	100.	7.8	20.0	169.	15.	0.09
29.85	712.	ND	11.2	2746.	1.01	0.7	42.	7.8	19.9	164.	14.	0.08
30.00	691.	ND	10.9	2678.	1.00	0.	0.	7.8	19.8	159.	13.	0.08
30.15	704.	ND	11.0	2710.	1.01	0.8	49.	7.8	19.8	162.	14.	0.08
30.30	704.	ND	10.2	2520.	1.02	1.1	62.	7.8	19.6	162.	12.	0.08
30.45	699.	ND	10.9	2676.	1.01	0.9	51.	8.1	20.5	161.	14.	0.09
30.60	701.	ND	10.1	2476.	1.01	0.9	48.	7.6	19.0	161.	12.	0.07
30.75	649.	ND	10.5	2582.	1.02	0.9	53.	7.8	19.7	149.	13.	0.09
30.90	607.	ND	11.2	2754.	1.02	1.4	84.	8.4	21.4	143.	15.	0.11
31.05	553.	ND	10.9	2678.	1.02	0.9	54.	6.9	17.9	127.	12.	0.10
31.20	467.	ND	10.9	2677.	1.02	1.4	81.	7.2	18.3	107.	12.	0.12
31.35	458.	ND	10.8	2644.	1.02	1.0	57.	6.4	16.5	105.	11.	0.10
31.50	464.	ND	10.4	2552.	1.02	1.1	59.	5.5	14.3	107.	9.	0.09
31.65	483.	ND	9.9	2444.	1.02	1.2	65.	5.1	13.3	111.	8.	0.07
31.80	492.	ND	10.9	2692.	1.02	1.4	84.	5.3	14.1	113.	10.	0.09
31.95	493.	ND	11.4	2804.	1.05	2.7	163.	4.5	12.3	113.	9.	0.08
32.10	506.	ND	10.6	2617.	1.06	3.7	212.	3.9	10.7	116.	7.	0.06
32.25	517.	ND	10.9	2678.	1.03	1.8	105.	4.7	12.7	119.	9.	0.07
32.40	515.	ND	11.4	2812.	1.03	1.6	99.	5.5	14.7	118.	10.	0.09
32.55	509.	ND	10.5	2582.	1.03	1.7	93.	5.8	15.0	117.	10.	0.08
32.70	496.	ND	10.5	2593.	1.03	1.5	86.	6.1	15.9	114.	10.	0.09
32.85	477.	ND	11.1	2720.	1.02	1.5	87.	6.7	17.4	110.	12.	0.11
33.00	467.	ND	11.7	2873.	1.03	1.5	95.	5.8	15.4	107.	11.	0.10
33.15	438.	ND	11.3	2786.	1.03	1.6	96.	5.0	13.4	101.	10.	0.09
33.30	459.	ND	10.9	2669.	1.02	1.2	72.	3.6	10.2	106.	7.	0.07
33.45	466.	ND	10.2	2508.	1.02	1.4	79.	2.5	7.5	107.	5.	0.04
33.60	447.	ND	10.7	2631.	1.02	1.4	83.	6.0	15.7	103.	10.	0.10
33.75	406.	ND	6.2	1518.	1.01	0.5	18.	7.3	17.3	93.	7.	0.07
33.90	366.	ND	5.8	1420.	1.01	0.5	17.	7.1	16.8	84.	6.	0.07
34.05	288.	ND	5.6	1377.	1.01	0.4	13.	4.8	11.5	66.	4.	0.06
34.20	62.	ND	4.1	1002.	1.01	0.4	8.	2.2	5.2	14.	1.	0.09

LOCATION- SUNNY POINT
DATE OF TEST- 1[illegible] 5 78
RUN NUMBER- 44
SEGMENT NUMBER- 2
WATER DEPTH- 20 FT
MATERIAL TYPE- SILTY CLAY
IN SITU PERCENT SOLIDS- 13.6
DISCHARGE LINE LENGTH- BARGE FILLING CONFIGURATION

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
0.	81.	ND	0.9	223.	1.00	0.	0.	-1.0	-2.4	19.	-0.	0.01
0.15	122.	ND	1.4	346.	1.00	0.	0.	-1.0	-2.4	28.	-0.	0.01
0.30	72.	ND	1.2	299.	1.00	0.	0.	-0.7	-1.7	17.	-0.	0.01
0.45	14.	ND	0.7	180.	1.01	0.5	2.	-0.3	-0.6	3.	-0.	0.01
0.60	39.	ND	0.8	204.	1.00	0.	0.	-0.2	-0.3	9.	-0.	0.00
0.75	74.	ND	1.1	261.	1.00	0.	0.	-0.1	-0.3	17.	-0.	0.00
0.90	14.	ND	0.9	217.	1.00	0.	0.	-0.1	-0.2	3.	-0.	0.00
1.05	5.	ND	0.7	161.	1.00	0.	0.	-0.1	-0.1	1.	-0.	0.00
1.20	89.	ND	1.1	271.	1.00	0.	0.	-0.0	-0.0	20.	-0.	0.00
1.35	37.	ND	0.8	202.	1.00	0.	0.	-0.1	-0.2	8.	-0.	0.00
1.50	28.	ND	0.7	165.	1.00	0.	0.	-0.2	-0.5	6.	-0.	0.00
1.65	65.	ND	0.5	119.	1.00	0.	0.	-0.2	-0.5	15.	-0.	0.00
1.80	99.	ND	1.4	337.	1.01	0.5	3.	0.4	0.9	23.	0.	0.00
1.95	85.	ND	2.2	530.	1.01	0.4	4.	-0.4	-0.8	20.	-0.	0.01
2.10	80.	ND	1.9	459.	1.01	0.3	3.	-0.4	-0.9	19.	-0.	0.01
2.25	108.	ND	0.8	202.	1.01	0.4	2.	-0.1	-0.1	25.	-0.	0.00
2.40	130.	ND	1.4	355.	1.01	0.5	4.	0.3	0.6	35.	0.	0.00
2.55	119.	ND	1.0	243.	1.01	0.5	3.	0.1	0.3	27.	0.	0.00
2.70	37.	ND	0.7	161.	1.00	0.	0.	-0.2	-0.6	9.	-0.	0.00
2.85	99.	ND	1.0	254.	1.00	0.	0.	0.0	0.1	23.	0.	0.00
3.00	197.	ND	1.0	255.	1.00	0.	0.	0.1	0.2	45.	0.	0.00
3.15	199.	ND	1.3	320.	1.00	0.	0.	0.1	0.1	46.	0.	0.00
3.30	151.	ND	1.2	291.	1.00	0.	0.	2.6	6.1	35.	0.	0.01
3.45	149.	ND	0.7	170.	1.00	0.	0.	6.4	14.8	34.	1.	0.02
3.60	187.	ND	0.5	119.	1.00	0.	0.	8.4	19.3	43.	1.	0.01
3.75	225.	ND	0.4	93.	1.00	0.	0.	9.6	22.2	52.	1.	0.01
3.90	321.	ND	2.7	658.	1.00	0.	0.	10.4	24.1	74.	4.	0.05
4.05	399.	ND	5.0	1236.	1.00	0.	0.	10.3	24.2	92.	8.	0.08
4.21	421.	ND	8.1	1988.	1.00	0.	0.	7.2	17.5	97.	9.	0.09
4.35	444.	ND	9.0	2221.	1.00	0.	0.	5.9	14.8	102.	8.	0.08
4.50	453.	ND	9.3	2283.	1.01	0.6	29.	5.5	14.0	104.	8.	0.08
4.65	449.	ND	10.0	2460.	1.01	0.4	22.	5.9	15.2	103.	9.	0.09
4.80	457.	ND	9.6	2355.	1.00	0.	0.	5.9	15.0	105.	9.	0.08

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
4.95	480.	ND	9.3	2289.	1.00	0.	0.	7.5	18.6	110.	11.	0.10
5.10	540.	ND	10.2	2512.	1.01	0.3	19.	9.3	23.1	124.	15.	0.12
5.25	584.	ND	10.5	2588.	1.00	0.	0.	9.6	23.8	134.	16.	0.12
5.40	582.	ND	10.7	2620.	1.00	0.	0.	10.2	25.3	134.	17.	0.13
5.55	609.	ND	11.0	2693.	1.00	0.	0.	10.4	25.8	140.	18.	0.13
5.70	625.	ND	11.3	2784.	1.00	0.	0.	9.6	24.2	144.	17.	0.12
5.85	635.	ND	11.5	2839.	1.00	0.	0.	9.7	24.4	146.	17.	0.12
6.00	647.	ND	11.2	2750.	1.00	0.	0.	9.9	24.7	149.	17.	0.12
6.15	660.	ND	11.2	2755.	1.00	0.	0.	10.0	25.1	152.	17.	0.12
6.30	663.	ND	11.5	2832.	1.00	0.	0.	10.5	26.3	152.	19.	0.12
6.45	661.	ND	11.7	2869.	1.00	0.	0.	11.0	27.5	152.	20.	0.13
6.60	679.	ND	10.4	2569.	1.00	0.	0.	11.0	27.1	156.	18.	0.11
6.75	696.	ND	11.0	2716.	1.00	0.	0.	11.1	27.4	160.	19.	0.12
6.90	709.	ND	11.1	2734.	1.00	0.	0.	11.3	27.9	163.	19.	0.12
7.05	706.	ND	10.7	2621.	1.00	0.	0.	12.1	29.6	161.	20.	0.12
7.20	679.	ND	10.9	2685.	1.00	0.	0.	13.0	31.8	156.	22.	0.14
7.35	666.	ND	10.9	2687.	1.01	0.4	25.	12.1	29.8	152.	20.	0.13
7.50	642.	ND	10.4	2551.	1.01	0.3	19.	11.4	28.0	148.	18.	0.12
7.65	639.	ND	10.5	2593.	1.00	0.	0.	12.5	30.6	147.	20.	0.14
7.80	656.	ND	10.9	2684.	1.00	0.	0.	10.7	26.6	151.	19.	0.12
7.95	645.	ND	10.3	2539.	1.02	1.0	53.	12.0	29.3	148.	19.	0.13
8.10	618.	ND	10.0	2453.	1.03	1.7	93.	11.8	28.7	142.	18.	0.13
8.25	636.	ND	10.0	2455.	1.00	0.	0.	11.6	28.3	147.	18.	0.12
8.40	651.	ND	10.0	2465.	1.01	0.5	27.	12.2	29.7	150.	19.	0.12
8.55	651.	ND	9.7	2388.	1.05	3.1	159.	12.1	29.5	150.	18.	0.12
8.70	655.	ND	9.1	2238.	1.01	0.9	42.	12.3	29.6	151.	17.	0.11
8.85	667.	ND	9.0	2223.	1.02	1.0	49.	14.0	33.6	153.	19.	0.12
9.00	683.	ND	8.9	2199.	1.05	3.1	148.	14.7	35.1	157.	20.	0.12
9.15	686.	ND	8.6	2107.	1.07	4.3	200.	13.8	33.0	158.	18.	0.11
9.30	709.	ND	7.6	1862.	1.04	2.5	100.	15.7	37.0	161.	17.	0.11
9.45	685.	ND	7.8	1926.	1.05	2.7	114.	16.4	38.9	158.	19.	0.12
9.60	647.	ND	7.3	1793.	1.09	5.6	218.	16.5	38.8	149.	18.	0.12
9.75	601.	ND	6.8	1675.	1.15	8.6	313.	16.8	39.4	138.	17.	0.12
9.90	583.	ND	6.7	1652.	1.04	2.6	95.	16.8	39.5	134.	17.	0.12
10.05	648.	ND	6.8	1667.	1.10	5.8	212.	17.4	40.8	149.	17.	0.12
10.20	755.	ND	6.8	1681.	1.18	10.4	383.	20.7	48.5	174.	21.	0.12
10.35	789.	ND	7.1	1736.	1.15	9.0	343.	18.6	43.7	181.	19.	0.11
10.50	811.	ND	8.4	2069.	1.15	8.9	402.	16.4	39.0	187.	20.	0.11
10.65	726.	ND	8.8	2169.	1.19	11.0	519.	16.5	39.2	183.	22.	0.12

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
10.80	789.	ND	8.8	2171.	1.18	10.5	499.	16.1	38.4	181.	21.	0.12
10.95	819.	ND	8.7	2147.	1.13	7.7	361.	15.0	35.7	188.	19.	0.10
11.10	842.	ND	9.9	2437.	1.14	8.4	448.	15.5	37.3	194.	23.	0.12
11.25	852.	ND	10.2	2497.	1.19	11.0	601.	15.8	38.0	196.	24.	0.12
11.40	865.	ND	9.9	2431.	1.13	7.5	401.	13.2	32.0	199.	20.	0.10
11.55	875.	ND	9.9	2426.	1.13	7.4	392.	14.5	35.0	201.	22.	0.11
11.70	870.	ND	10.1	2485.	1.14	8.3	450.	15.2	36.6	200.	23.	0.12
11.85	819.	ND	9.5	2340.	1.17	9.9	505.	14.9	35.7	188.	21.	0.11
12.00	786.	ND	8.2	2024.	1.22	12.8	567.	16.0	38.0	181.	20.	0.11
12.15	811.	ND	8.6	2113.	1.24	14.4	663.	15.2	36.2	187.	19.	0.10
12.30	813.	ND	8.8	2164.	1.25	14.6	689.	13.8	33.0	187.	18.	0.10
12.45	799.	ND	8.9	2193.	1.24	14.3	685.	12.2	29.4	184.	16.	0.09
12.60	793.	ND	9.0	2205.	1.25	14.5	699.	13.6	32.5	182.	18.	0.10
12.75	809.	ND	9.0	2222.	1.27	15.7	761.	14.6	35.0	186.	20.	0.11
12.90	806.	ND	9.1	2246.	1.22	12.8	628.	14.7	35.1	185.	20.	0.11
13.05	806.	ND	9.1	2247.	1.26	15.2	749.	12.7	30.6	185.	18.	0.09
13.20	821.	ND	8.2	2027.	1.25	14.7	650.	14.2	33.9	189.	18.	0.09
13.35	835.	ND	8.5	2092.	1.26	15.2	692.	15.0	35.7	192.	19.	0.10
13.50	864.	ND	8.8	2176.	1.27	16.1	766.	12.3	29.6	199.	16.	0.08
13.65	875.	ND	7.1	1741.	1.26	15.2	577.	8.8	21.2	201.	9.	0.05
13.80	874.	ND	8.0	1979.	1.21	12.4	538.	15.2	36.9	201.	18.	0.09
13.95	859.	ND	8.8	2166.	1.28	16.3	772.	16.7	39.6	198.	22.	0.11
14.10	817.	ND	9.6	2358.	1.24	14.3	736.	12.4	30.1	188.	18.	0.10
14.25	804.	ND	9.2	2253.	1.15	9.1	448.	13.4	32.2	185.	18.	0.10
14.40	808.	ND	9.3	2289.	1.20	11.8	589.	13.0	31.3	186.	18.	0.10
14.55	823.	ND	10.2	2496.	1.24	13.9	760.	11.0	27.1	189.	17.	0.09
14.70	808.	ND	11.3	2789.	1.14	8.0	488.	9.7	24.4	186.	17.	0.09
14.85	809.	ND	11.2	2751.	1.11	6.4	382.	10.1	25.3	186.	18.	0.10
15.00	809.	ND	11.8	2891.	1.14	8.1	514.	11.1	27.8	186.	21.	0.11
15.15	796.	ND	12.1	2986.	1.09	5.3	345.	10.3	26.0	183.	20.	0.11
15.30	810.	ND	11.4	2795.	1.03	1.7	104.	9.7	24.3	186.	17.	0.09
15.45	830.	ND	11.6	2864.	1.05	3.1	194.	9.8	24.7	191.	18.	0.09
15.60	836.	ND	12.1	2972.	1.02	1.4	89.	9.7	24.6	192.	18.	0.10
15.75	847.	ND	11.6	2857.	1.00	0.	0.	10.2	25.6	195.	19.	0.10
15.90	863.	ND	11.2	2757.	1.00	0.	0.	10.7	26.7	198.	19.	0.09
16.05	854.	ND	11.7	2876.	1.00	0.	0.	10.5	26.4	196.	19.	0.10
16.20	829.	ND	12.3	3028.	1.00	0.	0.	9.9	25.2	191.	19.	0.10
16.35	804.	ND	12.1	2983.	1.00	0.	0.	10.9	27.3	185.	21.	0.11
16.50	810.	ND	11.6	2849.	1.00	0.	0.	11.0	27.5	186.	20.	0.11

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
16.65	810.	ND	12.9	3182.	1.00	0.	0.	10.0	25.6	186.	21.	0.11
16.80	808.	ND	12.7	3113.	1.00	0.	0.	9.1	23.4	186.	18.	0.10
16.95	814.	ND	12.7	3115.	1.00	0.	0.	8.6	22.3	187.	18.	0.09
17.10	801.	ND	12.9	3178.	1.00	0.	0.	9.5	24.4	184.	20.	0.11
17.25	791.	ND	13.1	3231.	1.00	0.	0.	9.3	24.0	182.	21.	0.11
17.40	795.	ND	12.5	3069.	1.00	0.	0.	9.5	24.6	183.	19.	0.10
17.55	806.	ND	12.1	2980.	1.00	0.	0.	10.9	27.4	185.	21.	0.11
17.70	820.	ND	12.7	3120.	1.00	0.	0.	10.7	27.2	189.	21.	0.11
17.85	838.	ND	12.8	3141.	1.00	0.	0.	8.7	22.5	193.	18.	0.09
18.00	843.	ND	12.3	2545.	1.00	0.	0.	9.7	24.5	194.	18.	0.09
18.15	870.	ND	12.7	3117.	1.00	0.	0.	11.7	29.5	200.	23.	0.12
18.30	868.	ND	12.9	3176.	1.00	0.	0.	11.8	29.7	200.	24.	0.12
18.45	828.	ND	12.7	3123.	1.00	0.	0.	11.1	28.0	190.	22.	0.12
18.60	816.	ND	12.5	3068.	1.00	0.	0.	12.9	32.2	188.	25.	0.13
18.75	813.	ND	12.6	3097.	1.00	0.	0.	12.4	31.0	187.	24.	0.13
18.90	785.	ND	12.5	3074.	1.00	0.	0.	12.2	30.6	180.	24.	0.13
19.05	785.	ND	11.0	2711.	1.00	0.	0.	12.2	30.0	181.	21.	0.11
19.20	799.	ND	11.0	2706.	1.00	0.	0.	12.6	31.0	184.	21.	0.12
19.35	801.	ND	11.2	2751.	1.00	0.	0.	13.8	33.9	184.	24.	0.13
19.50	765.	ND	10.4	2548.	1.00	0.	0.	13.7	33.4	176.	22.	0.12
19.65	795.	ND	10.8	2645.	1.00	0.	0.	11.8	29.1	183.	19.	0.11
19.80	806.	ND	11.7	2874.	1.00	0.	0.	11.1	27.8	185.	20.	0.11
19.95	812.	ND	12.5	3097.	1.00	0.	0.	10.3	26.1	187.	20.	0.11
20.10	836.	ND	12.1	2966.	1.00	0.	0.	8.8	22.5	192.	17.	0.09
20.25	851.	ND	11.8	2907.	1.00	0.	0.	9.7	24.6	196.	18.	0.09
20.40	853.	ND	12.6	3099.	1.00	0.	0.	11.3	28.6	196.	22.	0.11
20.55	854.	ND	12.8	3141.	1.00	0.	0.	11.9	29.9	196.	24.	0.12
20.70	834.	ND	11.7	2886.	1.00	0.	0.	12.6	31.2	192.	23.	0.12
20.85	808.	ND	11.9	2936.	1.00	0.	0.	13.5	33.3	186.	25.	0.13
21.00	792.	ND	11.6	2841.	1.00	0.	0.	13.5	33.1	182.	24.	0.13
21.15	786.	ND	11.1	2718.	1.00	0.	0.	13.1	32.1	181.	22.	0.12
21.30	798.	ND	11.0	2707.	1.00	0.	0.	12.5	30.6	183.	21.	0.11
21.45	804.	ND	11.0	2717.	1.00	0.	0.	12.9	31.7	185.	22.	0.12
21.60	796.	ND	10.7	2636.	1.00	0.	0.	14.3	34.8	183.	23.	0.13
21.75	781.	ND	10.2	2519.	1.00	0.	0.	14.4	34.8	180.	22.	0.12
21.90	775.	ND	10.0	2449.	1.00	0.	0.	14.8	35.6	178.	22.	0.12
22.05	778.	ND	10.7	2620.	1.00	0.	0.	15.3	37.1	179.	25.	0.14
22.20	795.	ND	10.2	2514.	1.00	0.	0.	15.3	36.8	183.	23.	0.13
22.35	828.	ND	9.7	2383.	1.00	0.	0.	14.1	34.1	191.	21.	0.11

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
22.50	839.	ND	10.7	2640.	1.00	0.	0.	16.0	38.6	193.	26.	0.13
22.65	856.	ND	10.9	2676.	1.00	0.	0.	15.7	38.0	197.	26.	0.13
22.80	858.	ND	10.4	2558.	1.00	0.	0.	14.9	36.0	197.	23.	0.12
22.95	832.	ND	10.5	2577.	1.00	0.	0.	15.5	37.4	191.	24.	0.13
23.10	807.	ND	10.8	2659.	1.00	0.	0.	15.4	37.3	186.	25.	0.13
23.25	790.	ND	10.9	2689.	1.00	0.	0.	14.4	35.1	182.	24.	0.13
23.40	769.	ND	10.2	2511.	1.00	0.	0.	14.4	34.9	177.	22.	0.13
23.55	795.	ND	10.5	2572.	1.00	0.	0.	14.8	35.8	183.	23.	0.13
23.70	788.	ND	10.7	2633.	1.00	0.	0.	14.0	34.1	181.	23.	0.13
23.85	778.	ND	10.6	2603.	1.00	0.	0.	15.3	37.0	179.	24.	0.14
24.00	771.	ND	10.2	2504.	1.00	0.	0.	14.9	36.1	177.	23.	0.13
24.15	789.	ND	10.2	2513.	1.00	0.	0.	16.0	38.5	182.	24.	0.13
24.30	796.	ND	10.3	2532.	1.00	0.	0.	16.7	40.1	182.	26.	0.14
24.45	806.	ND	9.9	2444.	1.00	0.	0.	15.5	37.2	185.	23.	0.12
24.60	833.	ND	9.8	2412.	1.00	0.	0.	14.4	34.7	192.	21.	0.11
24.75	842.	ND	10.9	2687.	1.01	0.8	49.	14.5	35.3	194.	24.	0.12
24.90	859.	ND	10.4	2566.	1.02	1.4	80.	14.4	34.8	198.	23.	0.11
25.05	863.	ND	10.2	2519.	1.01	0.6	33.	14.2	34.4	199.	22.	0.11
25.20	845.	ND	10.7	2620.	1.00	0.	0.	14.8	35.8	194.	24.	0.12
25.35	825.	ND	10.8	2647.	1.04	2.2	129.	13.9	33.8	190.	23.	0.12
25.50	793.	ND	10.3	2539.	1.04	2.4	131.	13.7	33.2	182.	21.	0.12
25.65	771.	ND	10.2	2504.	1.02	1.0	53.	13.4	32.6	177.	21.	0.12
25.80	789.	ND	10.2	2519.	1.04	2.3	126.	13.2	32.1	181.	21.	0.11
25.95	793.	ND	10.1	2483.	1.08	4.8	261.	13.5	32.6	182.	21.	0.11
26.10	778.	ND	9.7	2388.	1.06	3.4	175.	13.7	33.1	179.	20.	0.11
26.25	783.	ND	9.5	2347.	1.06	3.3	167.	13.6	32.9	180.	20.	0.11
26.40	778.	ND	9.6	2365.	1.09	5.3	275.	15.2	36.5	179.	22.	0.12
26.55	783.	ND	9.8	2402.	1.11	6.8	355.	15.2	36.6	180.	22.	0.12
26.70	894.	ND	9.4	2321.	1.10	5.7	291.	14.2	34.9	206.	20.	0.10
26.85	1081.	ND	10.3	2544.	1.16	9.5	526.	16.5	39.8	249.	26.	0.10
27.00	1094.	ND	10.8	2668.	1.16	9.6	561.	16.3	39.4	252.	27.	0.11
27.15	1131.	ND	10.4	2561.	1.14	8.1	454.	17.1	41.2	260.	27.	0.10
27.30	1182.	ND	10.2	2497.	1.14	8.2	448.	19.9	47.4	272.	30.	0.11
27.45	1133.	ND	10.2	2517.	1.20	11.7	645.	19.4	46.3	261.	30.	0.11
27.60	1087.	ND	10.3	2537.	1.19	11.0	609.	18.5	44.3	250.	29.	0.11
27.75	1063.	ND	10.1	2481.	1.15	9.0	486.	17.6	42.3	244.	27.	0.11
27.90	1053.	ND	9.8	2411.	1.12	6.8	357.	18.2	43.6	242.	27.	0.11
28.05	1067.	ND	9.8	2410.	1.23	13.5	709.	17.2	41.2	245.	25.	0.10
28.20	1064.	ND	10.0	2469.	1.19	11.3	612.	17.0	40.9	245.	26.	0.10

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
28.35	1043.	ND	9.8	2410.	1.13	7.7	404.	17.6	42.1	240.	26.	0.11
28.50	1051.	ND	9.5	2337.	1.16	9.1	467.	19.3	45.9	242.	27.	0.11
28.65	1052.	ND	9.8	2419.	1.24	14.1	747.	19.1	45.5	242.	28.	0.12
28.80	1017.	ND	10.1	2480.	1.13	7.5	407.	17.2	41.3	234.	26.	0.11
28.95	1071.	ND	9.4	2314.	1.14	8.4	424.	18.9	44.9	246.	26.	0.11
29.10	1087.	ND	9.9	2446.	1.19	11.4	607.	18.8	45.0	250.	28.	0.11
29.25	1115.	ND	10.3	2543.	1.16	9.5	528.	18.4	44.1	256.	29.	0.11
29.40	1148.	ND	10.3	2530.	1.09	5.2	286.	18.2	43.7	264.	28.	0.11
29.55	1158.	ND	10.3	2532.	1.13	7.7	427.	18.6	44.4	266.	29.	0.11
29.70	1127.	ND	10.4	2568.	1.14	8.3	468.	18.6	44.5	259.	29.	0.11
29.85	1087.	ND	10.5	2570.	1.12	7.1	399.	17.8	42.9	253.	28.	0.11
30.00	1068.	ND	10.3	2524.	1.08	4.6	251.	18.0	43.1	246.	28.	0.11
30.15	1071.	ND	10.5	2581.	1.10	6.0	338.	18.2	43.7	246.	29.	0.12
30.30	1074.	ND	10.6	2616.	1.10	5.9	340.	16.6	40.0	247.	27.	0.11
30.45	1075.	ND	11.3	2777.	1.06	3.4	207.	15.1	36.8	247.	26.	0.10
30.60	1072.	ND	11.5	2816.	1.04	2.6	162.	14.0	34.4	247.	25.	0.10
30.75	1049.	ND	11.8	2913.	1.11	6.4	409.	15.7	38.4	241.	28.	0.12
30.90	1025.	ND	11.7	2871.	1.04	2.3	141.	15.5	37.9	236.	28.	0.12
31.05	1049.	ND	11.0	2715.	1.04	2.5	150.	14.0	34.1	241.	23.	0.10
31.20	1071.	ND	10.8	2668.	1.09	5.2	333.	15.2	37.0	246.	25.	0.10
31.35	1085.	ND	11.3	2770.	1.14	8.4	509.	15.7	38.3	249.	27.	0.11
31.50	1107.	ND	11.4	2791.	1.12	7.2	441.	15.2	37.1	255.	26.	0.10
31.65	1122.	ND	10.6	2614.	1.12	6.9	393.	15.6	37.7	258.	25.	0.10
31.80	1138.	ND	11.1	2722.	1.16	9.6	571.	16.9	40.9	262.	28.	0.11
31.95	1123.	ND	11.2	2745.	1.18	10.8	646.	16.9	40.8	258.	29.	0.11
32.10	1088.	ND	11.2	2744.	1.10	5.9	356.	16.1	39.1	250.	27.	0.11
32.25	1065.	ND	11.1	2742.	1.11	6.6	394.	16.4	39.7	245.	28.	0.11
32.40	1061.	ND	11.5	2823.	1.18	10.3	638.	15.7	38.3	244.	28.	0.11
32.55	1063.	ND	11.5	2840.	1.14	8.5	527.	13.8	33.9	245.	25.	0.10
32.70	1076.	ND	11.3	2768.	1.08	4.9	294.	15.4	37.6	248.	26.	0.11
32.85	1052.	ND	10.8	2663.	1.17	9.8	568.	17.1	41.4	242.	28.	0.12
33.00	1038.	ND	10.7	2632.	1.15	8.8	504.	17.2	41.4	239.	28.	0.12
33.15	1022.	ND	10.8	2648.	1.11	6.7	389.	16.6	40.1	235.	27.	0.11
33.30	1035.	ND	10.6	2602.	1.06	3.4	191.	16.1	39.0	238.	26.	0.11
33.45	1067.	ND	11.1	2718.	1.14	8.1	482.	16.7	40.3	245.	28.	0.11
33.60	1086.	ND	11.5	2824.	1.10	5.9	362.	15.5	37.8	250.	27.	0.11
33.75	1106.	ND	11.6	2860.	1.05	3.1	192.	13.2	32.5	254.	24.	0.09
33.90	1122.	ND	11.7	2868.	1.08	4.8	300.	16.0	39.1	258.	29.	0.11
34.05	1128.	ND	11.9	2935.	1.10	6.2	396.	15.2	37.4	259.	28.	0.11

AD-A117 146 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG--ETC F/G 12/1
PUMPING PERFORMANCE AND TURBIDITY GENERATION OF MODEL 600/100 P--ETC(U)
APR 82 T W RICHARDSON, J E HITE, R A SHAFER

UNCLASSIFIED WES/TR/HL-82-8-APP-C NL

SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
34.20	1106.	ND	11.8	2894.	1.07	4.3	272.	14.3	35.1	254.	26.	0.10
34.35	1071.	ND	11.8	2892.	1.06	3.7	236.	14.3	35.1	246.	26.	0.10
34.50	1069.	ND	12.3	3013.	1.08	4.9	324.	14.3	35.2	246.	27.	0.11
34.65	1071.	ND	12.6	3107.	1.11	6.4	432.	13.6	33.9	246.	27.	0.11
34.80	1063.	ND	12.7	3119.	1.05	2.8	191.	11.2	28.4	245.	22.	0.09
34.95	1055.	ND	12.1	2968.	1.07	3.9	256.	11.4	28.6	243.	22.	0.09
35.10	1051.	ND	12.3	3018.	1.11	6.3	417.	12.0	30.1	242.	23.	0.10
35.25	1042.	ND	12.5	3066.	1.05	2.8	186.	12.8	31.9	240.	25.	0.10
35.40	1035.	ND	12.3	3034.	1.06	3.6	237.	12.3	30.7	238.	24.	0.10
35.55	1058.	ND	11.8	2911.	1.15	8.8	555.	13.8	34.9	243.	25.	0.10
35.70	1062.	ND	12.0	2946.	1.13	7.8	502.	13.2	32.8	244.	25.	0.10
35.85	1062.	ND	12.2	2989.	1.12	7.1	464.	11.3	28.4	244.	22.	0.09
36.00	1096.	ND	11.8	2914.	1.11	6.7	423.	15.1	37.1	252.	27.	0.11
36.15	1122.	ND	12.1	2976.	1.14	8.2	534.	14.2	34.9	258.	27.	0.10
36.30	1124.	ND	12.3	3018.	1.13	7.5	495.	13.1	32.7	259.	25.	0.10
36.45	1081.	ND	11.6	2853.	1.13	7.4	459.	13.2	32.5	249.	24.	0.10
36.60	1065.	ND	11.7	2866.	1.13	7.7	481.	14.9	36.4	245.	27.	0.11
36.75	1075.	ND	12.2	2993.	1.14	8.2	537.	14.7	36.2	247.	28.	0.11
36.90	1067.	ND	12.5	3078.	1.09	5.5	370.	11.6	29.3	245.	23.	0.09
37.05	1045.	ND	12.1	2975.	1.09	5.2	336.	10.3	26.1	240.	20.	0.08
37.20	1065.	ND	12.1	2966.	1.11	6.4	415.	10.8	27.3	245.	21.	0.08
37.35	1061.	ND	12.5	3062.	1.13	7.9	533.	11.8	29.5	244.	23.	0.09
37.50	1015.	ND	12.5	3074.	1.08	4.9	330.	12.3	30.9	233.	24.	0.10
37.65	1039.	ND	11.5	2837.	1.14	8.5	525.	12.4	30.6	239.	22.	0.09
37.80	1057.	ND	12.0	2948.	1.18	10.6	682.	12.8	31.8	243.	24.	0.10
37.95	1064.	ND	12.3	3020.	1.16	9.4	619.	12.5	31.2	245.	24.	0.10
38.10	1087.	ND	12.1	2964.	1.11	6.2	402.	9.2	23.4	250.	18.	0.07
38.25	1106.	ND	11.7	2870.	1.14	8.2	511.	11.7	29.2	254.	21.	0.08
38.40	1117.	ND	12.2	2997.	1.17	9.9	647.	13.6	33.6	257.	26.	0.10
38.55	1121.	ND	12.4	3049.	1.15	8.6	576.	13.4	33.3	258.	26.	0.10
38.70	1092.	ND	12.2	2994.	1.12	7.2	471.	13.7	33.8	251.	26.	0.10
38.85	1064.	ND	11.8	2909.	1.18	10.7	682.	14.2	34.8	245.	26.	0.11
39.00	1061.	ND	12.2	3012.	1.21	12.2	804.	12.7	31.6	244.	24.	0.10
39.15	1058.	ND	12.2	2993.	1.14	8.4	550.	11.5	28.8	243.	22.	0.09
39.30	1060.	ND	12.2	2999.	1.13	7.7	503.	10.8	27.2	244.	21.	0.09
39.45	1063.	ND	12.3	3026.	1.18	10.5	693.	11.7	29.3	244.	23.	0.09
39.60	1043.	ND	12.5	3069.	1.14	8.0	535.	12.2	30.5	240.	24.	0.10
39.75	1034.	ND	12.4	3059.	1.10	5.6	377.	11.3	28.5	238.	22.	0.09
39.90	1034.	ND	11.8	2909.	1.12	7.2	456.	11.9	29.7	238.	22.	0.09

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
40.05	1031.	ND	12.3	3029.	1.17	10.1	668.	12.5	31.3	237.	24.	0.10
40.20	1058.	ND	12.3	3022.	1.12	6.8	447.	12.5	31.1	243.	24.	0.10
40.35	1091.	ND	11.7	2868.	1.11	6.5	409.	10.8	27.0	251.	20.	0.08
40.50	1088.	ND	12.2	3011.	1.16	9.6	630.	12.3	30.6	250.	24.	0.09
40.65	1090.	ND	12.9	3161.	1.14	8.0	554.	12.5	31.5	251.	25.	0.10
40.80	1096.	ND	12.8	3154.	1.11	6.7	463.	11.7	29.6	252.	24.	0.09
40.95	1086.	ND	12.8	3138.	1.11	6.3	435.	12.3	30.8	250.	25.	0.10
41.10	1064.	ND	13.2	3242.	1.09	5.4	382.	12.4	31.2	245.	26.	0.11
41.25	1071.	ND	13.8	3390.	1.06	3.3	246.	11.3	29.0	246.	25.	0.10
41.40	1060.	ND	13.5	3314.	1.05	2.8	202.	10.7	27.4	244.	23.	0.09
41.55	1051.	ND	13.4	3297.	1.05	2.9	211.	10.6	27.2	242.	23.	0.09
41.70	1039.	ND	13.5	3308.	1.06	3.5	253.	8.1	21.5	239.	18.	0.08
41.85	1030.	ND	13.3	3260.	1.05	3.2	230.	9.9	25.6	237.	21.	0.09
42.00	1036.	ND	12.9	3175.	1.06	3.4	239.	9.3	24.0	238.	19.	0.08
42.15	1045.	ND	12.6	3090.	1.06	3.7	251.	9.0	23.2	240.	18.	0.08
42.30	1040.	ND	13.4	3289.	1.06	3.7	268.	9.2	24.0	239.	20.	0.08
42.45	1056.	ND	12.6	3103.	1.07	4.2	286.	7.8	20.5	243.	16.	0.07
42.60	1078.	ND	12.6	3110.	1.06	3.8	258.	8.1	21.2	248.	17.	0.07
42.75	1067.	ND	13.4	3301.	1.05	3.2	227.	9.4	24.4	245.	20.	0.08
42.90	1082.	ND	13.7	3360.	1.04	2.2	158.	10.1	26.3	249.	22.	0.09
43.05	1092.	ND	12.7	3134.	1.03	1.7	120.	10.4	26.5	251.	21.	0.08
43.20	1080.	ND	13.9	3411.	1.02	1.4	101.	10.7	27.6	248.	24.	0.10
43.35	1069.	ND	14.2	3497.	1.01	0.7	52.	10.9	28.2	246.	25.	0.10
43.50	1054.	ND	14.0	3456.	1.01	0.4	28.	9.7	25.5	243.	22.	0.09
43.65	1053.	ND	14.0	3451.	1.00	0.	0.	11.4	29.3	242.	26.	0.11
43.80	1057.	ND	14.4	3532.	1.00	0.	0.	8.5	22.9	243.	20.	0.08
43.95	1054.	ND	14.6	3589.	1.00	0.	0.	8.0	21.7	242.	20.	0.08
44.10	1038.	ND	14.2	3497.	1.01	0.3	24.	7.9	21.3	239.	19.	0.08
44.25	1054.	ND	13.6	3350.	1.01	0.4	27.	8.1	21.6	242.	18.	0.08
44.40	1049.	ND	14.6	3600.	1.00	0.	0.	8.8	23.7	241.	22.	0.09
44.55	1051.	ND	14.2	3502.	1.00	0.	0.	8.7	23.1	242.	20.	0.08
44.70	1080.	ND	12.6	3100.	1.00	0.	0.	7.7	20.3	248.	16.	0.06
44.85	1103.	ND	11.4	2815.	1.11	6.5	399.	13.0	32.1	254.	23.	0.09
45.00	1112.	ND	12.0	2960.	1.11	6.7	436.	13.6	33.7	256.	25.	0.10
45.15	1127.	ND	12.1	2972.	1.08	4.8	309.	12.9	31.9	259.	24.	0.09
45.30	1145.	ND	12.4	3040.	1.16	9.2	611.	13.7	34.0	263.	26.	0.10
45.45	1120.	ND	13.0	3208.	1.18	10.5	738.	14.2	35.3	258.	29.	0.11
45.60	1083.	ND	13.0	3186.	1.08	4.9	342.	13.7	34.2	249.	28.	0.11
45.75	1065.	ND	12.2	2994.	1.06	3.2	212.	13.1	32.6	245.	25.	0.10

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
45.90	1079.	ND	12.2	3004.	1.05	3.1	202.	13.8	34.2	248.	26.	0.11
46.05	1041.	ND	12.2	2998.	1.05	2.9	193.	12.9	32.1	239.	24.	0.10
46.20	1016.	ND	9.1	2240.	1.02	1.4	71.	24.6	58.0	234.	33.	0.14
46.35	1041.	ND	6.5	1597.	1.01	0.4	12.	31.8	73.9	239.	30.	0.12
46.50	1067.	ND	7.9	1934.	1.02	1.1	47.	24.2	56.8	245.	28.	0.11
46.65	1054.	ND	9.4	2308.	1.02	1.0	48.	24.0	56.7	242.	33.	0.14
46.80	1040.	ND	9.0	2224.	1.01	0.4	21.	23.7	55.9	239.	31.	0.13
46.95	1110.	ND	9.6	2363.	1.02	1.0	53.	23.2	54.9	255.	33.	0.13
47.10	1114.	ND	9.9	2423.	1.02	1.1	60.	24.6	58.4	256.	36.	0.14
47.25	1154.	ND	9.3	2285.	1.02	0.9	44.	25.4	59.9	265.	35.	0.13
47.40	1214.	ND	8.8	2160.	1.00	0.	0.	25.2	59.4	279.	32.	0.12
47.55	1217.	ND	9.2	2257.	1.01	0.6	32.	26.1	61.5	280.	35.	0.13
47.70	1146.	ND	10.1	2495.	1.02	0.9	51.	21.5	51.3	264.	32.	0.12
47.85	1081.	ND	10.5	2573.	1.02	0.9	53.	20.4	48.7	249.	32.	0.13
48.00	1082.	ND	10.4	2558.	1.01	0.8	44.	17.9	43.1	249.	28.	0.11
48.15	1092.	ND	12.4	3044.	1.02	0.9	62.	14.5	35.9	251.	28.	0.11
48.30	1069.	ND	12.5	3073.	1.01	0.8	56.	14.9	36.7	246.	29.	0.12
48.45	1064.	ND	11.9	2916.	1.00	0.	0.	14.3	35.1	245.	26.	0.11
48.60	1067.	ND	11.8	2902.	1.00	0.	0.	15.5	37.8	245.	28.	0.11
48.75	1057.	ND	11.1	2728.	1.01	0.7	42.	19.1	46.0	243.	32.	0.13
48.90	1049.	ND	10.7	2627.	1.01	0.5	29.	18.6	44.6	241.	30.	0.12
49.05	1070.	ND	10.8	2667.	1.00	0.	0.	16.7	40.4	246.	27.	0.11
49.20	1093.	ND	11.6	2861.	1.02	0.9	58.	14.0	34.4	251.	25.	0.10
49.35	1107.	ND	11.8	2890.	1.04	2.3	145.	15.4	37.8	255.	29.	0.11
49.50	1107.	ND	11.5	2831.	1.06	3.8	233.	15.5	37.8	255.	27.	0.11
49.65	1163.	ND	11.8	2914.	1.10	5.8	369.	14.2	35.0	267.	26.	0.10
49.80	1160.	ND	12.0	2948.	1.21	12.2	786.	15.3	37.6	267.	28.	0.11
49.95	1130.	ND	11.0	2707.	1.28	16.6	979.	16.3	39.4	260.	27.	0.11
50.10	1096.	ND	11.1	2720.	1.25	14.7	873.	14.8	36.1	252.	25.	0.10
50.25	1079.	ND	11.2	2745.	1.19	11.5	687.	15.4	37.5	248.	26.	0.11
50.40	1090.	ND	10.3	2526.	1.34	20.2	1115.	14.6	35.3	251.	23.	0.09
50.55	1080.	ND	10.3	2542.	1.38	22.4	1244.	15.4	37.3	248.	24.	0.10
50.70	1068.	ND	10.3	2535.	1.39	22.8	1264.	14.7	35.6	246.	23.	0.09
50.85	1051.	ND	9.4	2323.	1.39	23.1	1173.	14.6	35.0	242.	21.	0.09
51.00	1036.	ND	7.7	1893.	1.44	25.8	1066.	17.9	42.2	238.	20.	0.09
51.15	1031.	ND	8.4	2067.	1.43	25.1	1135.	18.4	43.6	237.	23.	0.10
51.30	1061.	ND	8.0	1979.	1.40	23.3	1006.	18.8	44.3	244.	22.	0.09
51.45	1098.	ND	7.6	1872.	1.40	23.5	963.	20.4	48.0	252.	23.	0.09
51.60	1145.	ND	7.6	1871.	1.43	25.3	1034.	22.8	53.6	263.	26.	0.10

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
51.75	1232.	ND	6.5	1589.	1.44	25.7	891.	22.0	51.5	283.	21.	0.07
51.90	1292.	ND	6.0	1477.	1.43	25.1	810.	22.8	53.1	297.	20.	0.07
52.05	1316.	ND	6.6	1635.	1.43	25.5	912.	23.0	53.8	303.	22.	0.07
52.20	1114.	ND	6.2	1527.	1.44	25.8	862.	21.0	48.9	256.	19.	0.07
52.35	1015.	ND	4.2	1041.	1.43	25.3	576.	20.7	48.1	233.	13.	0.05
52.50	1074.	ND	5.3	1304.	1.42	24.9	709.	20.7	48.2	247.	16.	0.06
52.65	1072.	ND	5.7	1408.	1.42	24.7	760.	21.0	49.3	247.	18.	0.07
52.80	1011.	ND	4.9	1198.	1.45	26.3	690.	23.9	55.5	233.	17.	0.07
52.95	984.	ND	3.9	960.	1.50	29.3	613.	25.0	57.9	226.	14.	0.06
53.10	965.	ND	4.4	1090.	1.44	25.8	615.	28.3	65.7	222.	18.	0.08
53.25	992.	ND	5.3	1301.	1.46	27.1	771.	28.3	65.8	228.	22.	0.10
53.40	1020.	ND	4.4	1073.	1.46	27.3	640.	27.4	63.4	235.	17.	0.07
53.55	1051.	ND	4.1	1009.	1.45	26.5	585.	28.6	66.1	242.	17.	0.07
53.70	1107.	ND	6.6	1633.	1.45	26.3	938.	28.6	66.7	255.	28.	0.11
53.85	1127.	ND	8.8	2165.	1.44	26.1	1233.	23.6	55.6	259.	31.	0.12
54.00	1202.	ND	9.6	2351.	1.42	24.8	1272.	16.8	40.3	277.	24.	0.09
54.15	1178.	ND	9.9	2441.	1.40	23.4	1248.	16.4	39.3	271.	25.	0.09
54.30	1094.	ND	11.6	2861.	1.27	15.6	975.	12.7	31.5	252.	23.	0.09
54.45	1059.	ND	12.6	3091.	1.18	10.4	709.	12.8	32.0	244.	25.	0.10
54.60	1052.	ND	12.3	3029.	1.15	9.1	602.	13.7	33.9	242.	26.	0.11
54.75	1045.	ND	12.6	3104.	1.13	7.6	518.	11.9	29.9	241.	24.	0.10
54.90	1036.	ND	13.5	3320.	1.10	5.7	416.	9.4	24.6	238.	21.	0.09
55.05	1034.	ND	13.5	3332.	1.05	2.8	206.	11.9	30.2	238.	26.	0.11
55.20	1067.	ND	9.4	2310.	1.01	0.6	29.	12.8	30.8	245.	18.	0.07
55.35	1041.	ND	12.6	3097.	1.01	0.3	23.	11.3	28.6	239.	22.	0.09
55.50	1024.	ND	13.0	3209.	1.01	0.5	38.	9.9	25.4	235.	21.	0.09
55.65	1038.	ND	12.7	3120.	1.02	1.0	69.	9.4	24.3	239.	19.	0.08
55.80	1047.	ND	13.4	3293.	1.02	1.4	101.	9.7	25.1	241.	21.	0.09
55.95	1058.	ND	13.8	3386.	1.01	0.8	61.	9.7	25.3	243.	22.	0.09
56.10	1076.	ND	13.3	3279.	1.01	0.5	39.	10.3	25.8	248.	21.	0.09
56.25	1089.	ND	12.8	3144.	1.01	0.6	40.	11.7	29.5	251.	23.	0.09
56.40	1100.	ND	14.0	3436.	1.01	0.8	58.	12.0	30.6	253.	27.	0.11
56.55	1088.	ND	13.9	3430.	1.01	0.4	31.	11.3	29.2	250.	25.	0.10
56.70	1055.	ND	13.4	3306.	1.01	0.6	43.	12.6	32.0	243.	27.	0.11
56.85	1051.	ND	14.0	3448.	1.01	0.8	57.	12.4	31.6	242.	28.	0.11
57.00	1056.	ND	14.1	3463.	1.02	1.2	88.	11.1	28.9	243.	25.	0.10
57.15	1050.	ND	13.8	3390.	1.01	0.4	31.	10.2	26.4	242.	23.	0.09
57.30	1050.	ND	13.6	3336.	1.00	0.	0.	9.7	25.1	242.	21.	0.09
57.45	1053.	ND	13.4	3290.	1.01	0.5	35.	9.5	24.7	242.	21.	0.08

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
57.60	1025.	ND	13.9	3426.	1.01	0.3	26.	11.3	29.1	236.	25.	0.11
57.75	1025.	ND	13.5	3314.	1.00	0.	0.	11.0	28.2	236.	24.	0.10
57.90	1043.	ND	12.9	3181.	1.01	0.8	53.	10.7	27.3	240.	22.	0.09
58.05	1052.	ND	13.7	3376.	1.02	1.2	91.	10.9	28.0	242.	24.	0.10
58.20	1051.	ND	14.0	3454.	1.01	0.6	48.	11.0	28.4	242.	25.	0.10
58.35	1070.	ND	12.7	3133.	1.01	0.4	24.	11.5	29.0	246.	23.	0.09
58.50	1098.	ND	13.5	3310.	1.00	0.	0.	12.8	32.4	253.	27.	0.11
58.65	1099.	ND	13.9	3427.	1.00	0.	0.	12.8	32.7	253.	28.	0.11
58.80	1076.	ND	13.8	3398.	1.00	0.	0.	12.4	31.5	247.	27.	0.11
58.95	1051.	ND	13.6	3335.	1.00	0.	0.	13.0	32.9	242.	28.	0.11
59.10	1055.	ND	14.1	3468.	1.02	1.3	101.	12.6	32.1	243.	28.	0.12
59.25	1039.	ND	14.1	3470.	1.01	0.6	42.	9.7	25.5	239.	22.	0.09
59.40	1029.	ND	13.7	3373.	1.01	0.3	25.	9.1	24.0	237.	20.	0.09
59.55	1041.	ND	13.7	3358.	1.01	0.4	26.	9.9	25.7	239.	22.	0.09
59.70	1041.	ND	14.1	3459.	1.01	0.4	33.	10.2	26.6	239.	23.	0.10
59.85	1015.	ND	13.9	3422.	1.00	0.	0.	10.5	27.3	234.	24.	0.10
60.00	1025.	ND	13.0	3197.	1.01	0.3	23.	10.3	26.5	236.	21.	0.09
60.15	1044.	ND	13.1	3216.	1.02	1.1	74.	10.5	27.0	240.	22.	0.09
60.30	1048.	ND	14.0	3431.	1.01	0.7	49.	10.9	28.1	241.	24.	0.10
60.45	1046.	ND	13.7	3371.	1.00	0.	0.	10.2	26.5	241.	23.	0.09
60.60	1065.	ND	13.2	3255.	1.00	0.	0.	10.4	26.8	245.	22.	0.09
60.75	868.	ND	13.6	3351.	1.00	0.	0.	9.5	24.8	200.	21.	0.11
60.90	686.	ND	12.9	3176.	1.01	0.4	28.	7.7	20.3	158.	16.	0.10
61.05	543.	ND	12.1	2973.	1.01	0.6	38.	6.6	17.5	125.	13.	0.11
61.20	555.	ND	12.4	3058.	1.01	0.6	42.	6.4	17.2	127.	13.	0.11
61.35	530.	ND	12.8	3154.	1.01	0.7	52.	5.5	15.1	122.	12.	0.10
61.50	518.	ND	12.8	3139.	1.01	0.6	39.	5.5	15.2	119.	12.	0.10
61.65	522.	ND	12.5	3086.	1.01	0.8	54.	3.2	9.9	120.	8.	0.06
61.80	531.	ND	12.3	3013.	1.01	0.9	56.	4.0	11.6	122.	9.	0.07
61.95	521.	ND	12.6	3101.	1.01	0.7	48.	2.7	8.8	120.	7.	0.06
62.10	502.	ND	12.3	3021.	1.01	0.9	57.	2.6	8.4	115.	6.	0.06
62.25	525.	ND	11.5	2837.	1.03	1.5	95.	4.4	12.1	121.	9.	0.07
62.40	525.	ND	12.3	3023.	1.02	1.4	94.	3.4	10.3	121.	8.	0.07
62.55	541.	ND	11.9	2931.	1.02	1.1	72.	2.0	6.8	124.	5.	0.04
62.70	569.	ND	11.2	2763.	1.02	1.2	74.	1.9	6.3	131.	4.	0.03
62.85	584.	ND	11.5	2832.	1.02	1.1	73.	3.4	9.9	134.	7.	0.05
63.00	572.	ND	12.3	3013.	1.02	1.4	94.	4.9	13.6	132.	10.	0.08
63.15	548.	ND	11.8	2911.	1.02	1.4	87.	3.2	9.6	126.	7.	0.06
63.30	535.	ND	12.1	2975.	1.02	1.2	76.	5.2	14.3	123.	11.	0.09

RUN NUMBER- 44
SEGMENT NUMBER- 2

TIME (MIN)	AIR FLOW (SCFM)	AIR PRES (PSI)	DISCH VEL (FPS)	DISCH FLOW (GPM)	DISCH SP GR	DISCH PERCENT SOLIDS (%)	IN SITU EXCAV RATE (CU YD/HR)	DISCH PRES (PSI)	TOTAL DISCH HEAD (FT WATER)	PUMP INPUT HP	PUMP OUTPUT HP	PUMP EFF
63.45	530.	ND	12.4	3043.	1.02	1.2	79.	6.0	16.3	122.	13.	0.10
63.60	524.	ND	12.9	3180.	1.02	1.4	94.	4.7	13.5	120.	11.	0.09
63.75	518.	ND	12.5	3081.	1.02	1.3	88.	5.1	14.1	119.	11.	0.09
63.90	535.	ND	12.6	3097.	1.03	1.5	103.	4.2	12.2	123.	10.	0.08
64.05	535.	ND	12.7	3126.	1.02	1.4	95.	2.8	9.0	123.	7.	0.06
64.20	532.	ND	12.8	3140.	1.02	1.4	99.	3.6	10.8	122.	9.	0.07
64.35	513.	ND	12.3	3034.	1.02	1.3	84.	3.0	9.3	119.	7.	0.06
64.50	531.	ND	12.2	2991.	1.02	1.4	94.	3.8	11.1	122.	8.	0.07
64.65	548.	ND	12.4	3047.	1.02	1.2	78.	4.2	12.1	126.	9.	0.07
64.80	561.	ND	12.2	2992.	1.02	1.3	87.	3.5	10.5	129.	8.	0.06
64.95	567.	ND	11.5	2821.	1.02	1.5	91.	2.4	7.6	130.	5.	0.04
65.10	572.	ND	12.2	2994.	1.03	1.5	98.	2.7	8.6	132.	7.	0.05
65.25	571.	ND	12.5	3071.	1.02	1.5	98.	4.3	12.4	131.	10.	0.07
65.40	561.	ND	11.4	2796.	1.02	1.2	72.	5.0	13.5	129.	10.	0.07
65.55	559.	ND	12.0	2960.	1.02	1.4	90.	5.3	14.5	129.	11.	0.08
65.70	552.	ND	12.6	3106.	1.03	1.6	108.	5.0	14.0	127.	11.	0.09
65.85	517.	ND	12.4	3052.	1.03	1.5	101.	4.3	12.2	119.	9.	0.08
66.00	525.	ND	12.4	3038.	1.02	1.2	78.	5.9	16.0	121.	12.	0.10
66.15	531.	ND	12.6	3091.	1.02	1.4	95.	5.3	14.7	122.	12.	0.09
66.30	519.	ND	12.7	3130.	1.02	1.1	78.	3.9	11.4	119.	9.	0.08
66.45	513.	ND	12.5	3077.	1.02	1.2	83.	3.3	10.0	118.	8.	0.07
66.60	523.	ND	12.1	2967.	1.02	1.3	84.	3.2	9.7	120.	7.	0.06
66.75	471.	ND	12.3	3027.	1.02	1.3	86.	2.7	8.7	108.	7.	0.06
66.90	433.	ND	12.2	3007.	1.02	1.2	76.	2.2	7.4	100.	6.	0.06
67.05	451.	ND	10.7	2623.	1.03	1.5	87.	1.1	4.3	104.	3.	0.03
67.20	430.	ND	10.2	2519.	1.03	1.6	90.	0.4	2.5	99.	2.	0.02
67.35	417.	ND	9.6	2361.	1.02	1.2	63.	2.6	7.5	96.	5.	0.05
67.50	405.	ND	7.5	1843.	1.02	1.3	51.	7.2	17.5	93.	8.	0.09
67.65	374.	ND	4.2	1043.	1.02	1.0	23.	10.7	25.0	86.	7.	0.08
67.80	103.	ND	3.8	943.	1.01	0.9	17.	11.2	26.0	24.	6.	0.26
67.95	35.	ND	4.1	1015.	1.02	0.9	20.	9.2	21.4	8.	5.	0.68
68.10	23.	ND	3.6	881.	1.01	0.6	12.	9.4	21.8	5.	5.	0.91
68.25	14.	ND	3.2	778.	1.01	0.7	11.	9.3	21.7	3.	4.	1.37
68.40	12.	ND	2.8	687.	1.01	0.9	13.	8.9	20.7	3.	4.	1.27

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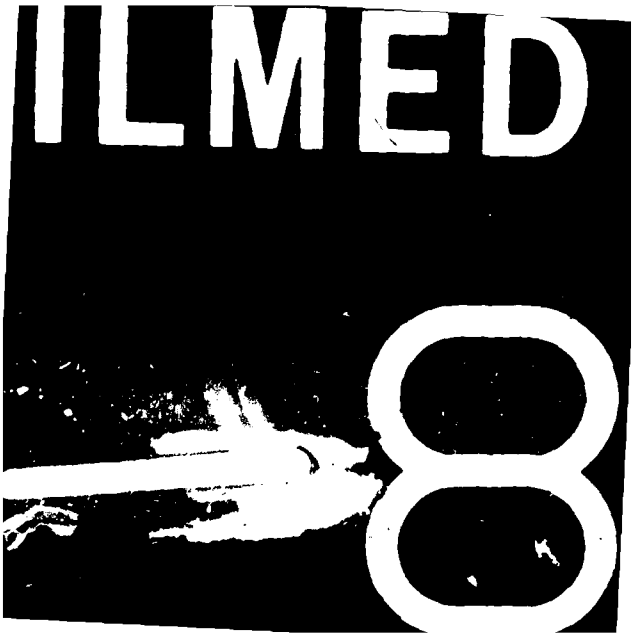
Pumping performance and turbidity generation of Model 600/100 PNEUMA Pump : Appendix C / by Thomas W. Richardson ... [et al.] (Hydraulics Laboratory, U.S. Army Engineer Waterways Experiment Station). -- Vicksburg, Miss. : The Station ; Springfield, Va. : available from NTIS, 1982.
484 p. ; 27 cm. -- (Technical report ; HL-82-8, Appendix C)
Cover title.
"April 1982."
Final report.
"Prepared for Office, Chief of Engineers, U.S. Army."

1. Dredging. 2. Materials handling. 3. Pumping machinery. 4. Sedimentation and deposition. 5. Turbidity. I. Richardson, Thomas W. II. United States. Army. Corps of Engineers. Office of the Chief of Engineers. III. Series: Technical report (U.S. Army Engineer Waterways Experiment Station) ; HL-82-8, Appendix C.
TA7.W34 no.HL-82-8 App. C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