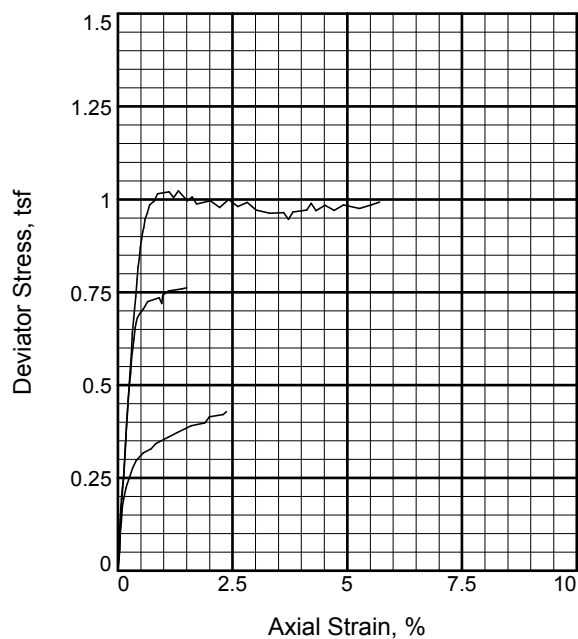
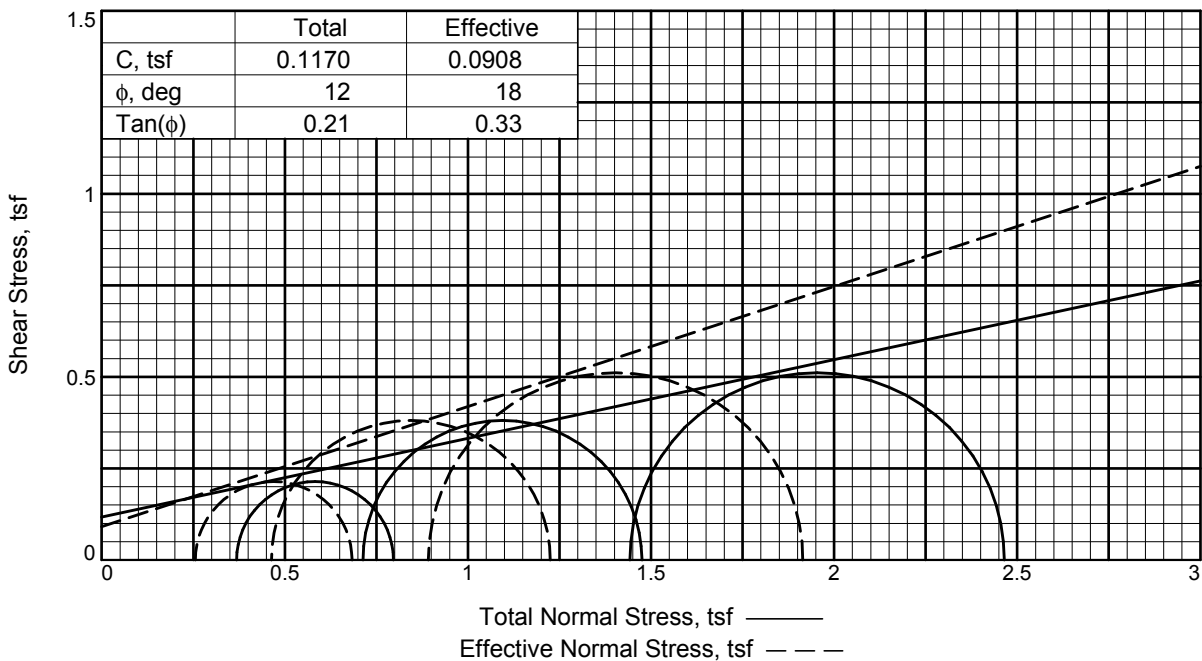


TRIAXIAL TEST, CORPS OF ENGINEERS FORMAT



Specimen Numbers		1	2	3
Initial	Water Content, %	10.0	10.0	10.0
	Dry Density, pcf	104.7	105.3	106.5
	Saturation, %	45.7	46.4	47.9
	Void Ratio	0.5801	0.5708	0.5530
	Diameter, in.	2.010	2.031	2.032
	Height, in.	4.170	4.060	4.010
At Test	Water Content, %	21.9	21.5	20.9
	Dry Density, pcf	104.7	105.3	106.5
	Saturation, %	100.0	100.0	100.0
	Void Ratio	0.5801	0.5708	0.5530
	Diameter, in.	2.010	2.031	2.032
	Height, in.	4.170	4.060	4.010
Strain rate, in./min.		0.000	163.000	542.000
Eff. Cell Pressure, psi		5.118	9.911	20.034
Fail. Stress, tsf		0.428	0.762	1.023
Excess Pore Pr., tsf		0.113	0.250	0.550
Strain, %		2.4	1.5	1.3
Ult. Stress, tsf				
Excess Pore Pr., tsf				
Strain, %				
$\bar{\sigma}_1$ Failure, tsf		0.683	1.225	1.915
$\bar{\sigma}_3$ Failure, tsf		0.256	0.463	0.892

Type of Test:

CU with Pore Pressures

Sample Type:

Description: Brown/gray silty clay, moist, stiff

Assumed Specific Gravity= 2.65

Remarks: undisturbed sample removed from Shelby tube using piston extruder
middle 18 inches used out of 24" recovery

Client: Enterprising Ideas, Inc.

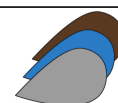
Project: Lakeside Amusement Park

Location: CUPP trial imported cupp test

Sample Number: 2 Depth: 1234

Proj. No.: 123456789

Date Sampled:

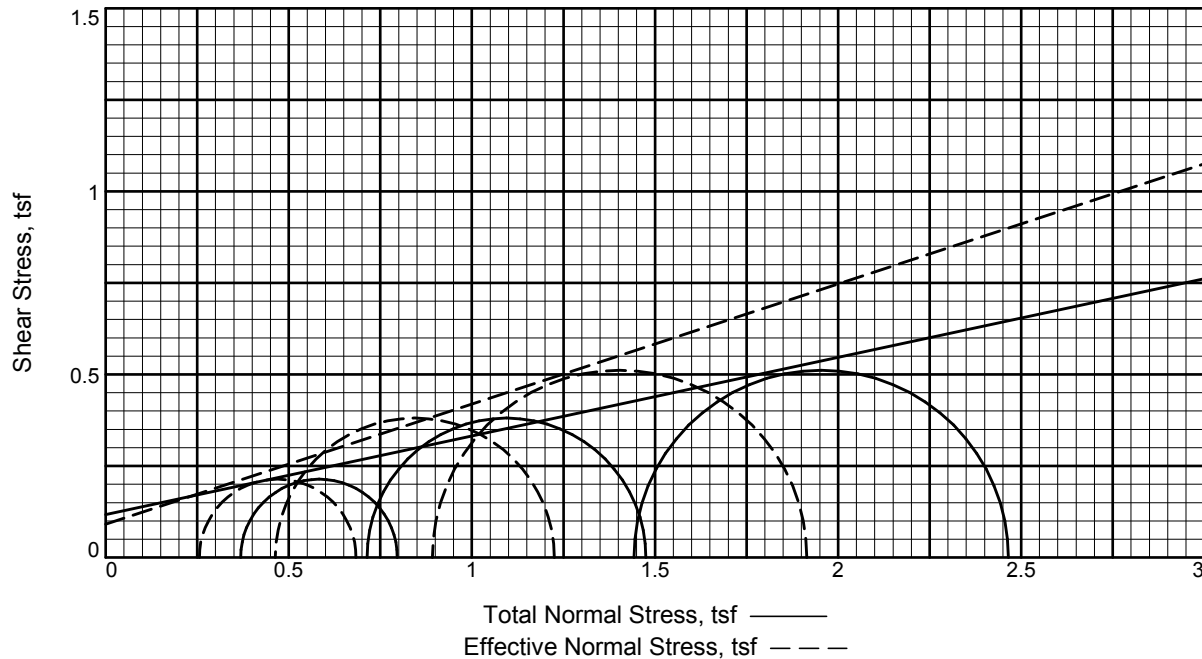


Poudre Valley
Geotechnical
Engineers

Figure 21

TRIAXIAL TEST, ALTERNATE FORMAT

TRIAXIAL SHEAR TEST REPORT



Type of Test: CU with Pore Pressures

Sample Type:

No.	Fluid Press. psi		Fail. Stress, tsf		Ult. Stress, tsf		Principal Stresses at Failure tsf	
	Cell	Back	Deviator	Excess Pore Pressure	Deviator	Excess Pore Pressure	$\bar{\sigma}_1$	$\bar{\sigma}_3$
1	65.118	60.000	0.4279	0.1129			0.6835	0.2556
2	69.911	60.000	0.7616	0.2502			1.2250	0.4634
3	80.034	60.000	1.0226	0.5503			1.9147	0.8921

No.	Consolidated Sample Parameters						
	% Water Content	Dry Dens. pcf	Satur-ation	Void Ratio	Diameter in.	Height in.	Strain Rate in/min.
1	21.9	104.7	100.0%	0.5801	2.010	4.170	0.000
2	21.5	105.3	100.0%	0.5708	2.031	4.060	163.000
3	20.9	106.5	100.0%	0.5530	2.032	4.010	542.000

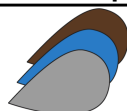
Mohr-Coulomb Strength Parameters			Material Description
	Total	Effective	
Strength intercept, c=	0.1170 tsf	0.0908 tsf	
Friction angle, ϕ =	12 deg	18 deg	
Tangent, ϕ =	0.21	0.33	

Client: Enterprising Ideas, Inc.

Project: Lakeside Amusement Park

Location: CUPP trial imported cupp test

Sample Number: 2 **Depth:** 1234



Poudre Valley
Geotechnical
Engineers

Date Sampled:

File: MikesShearTest

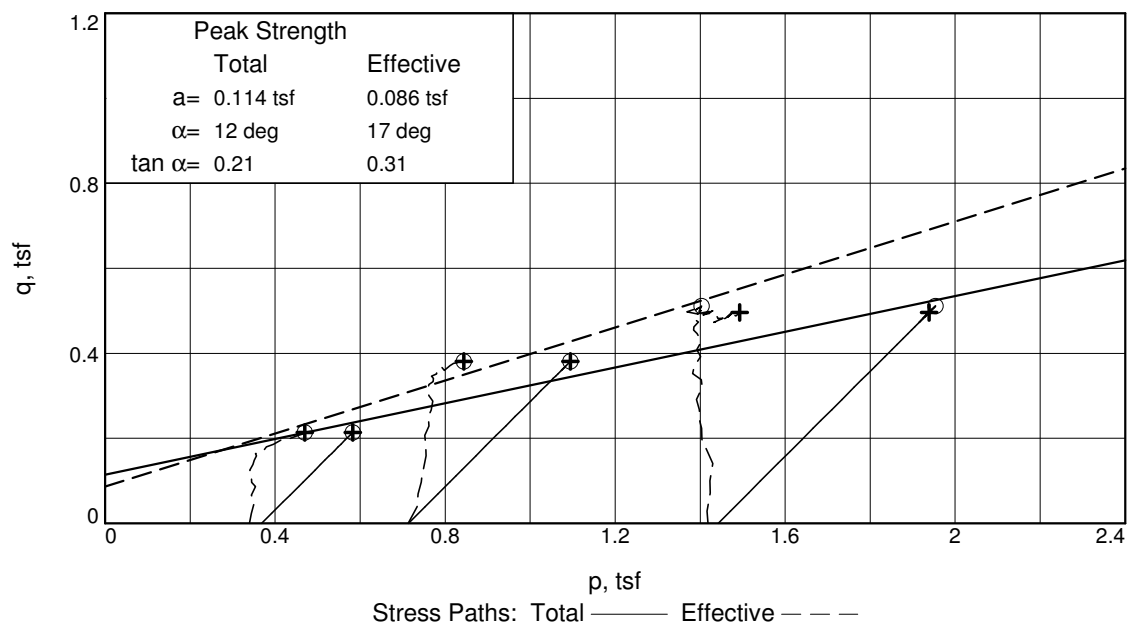
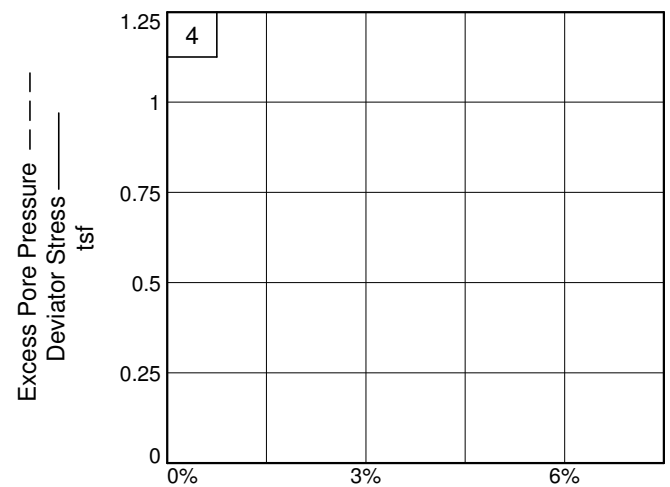
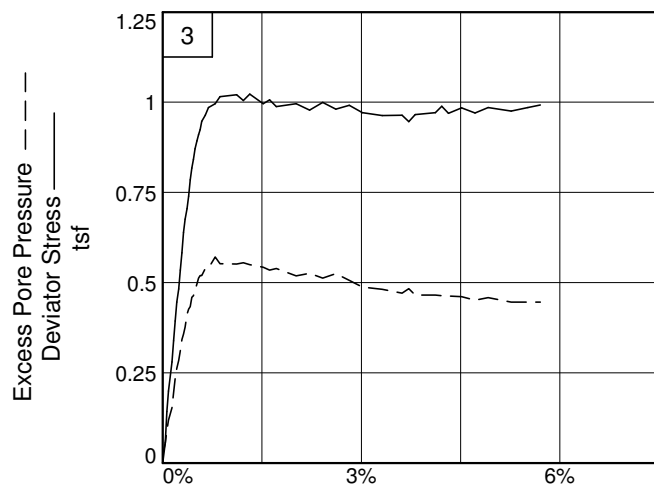
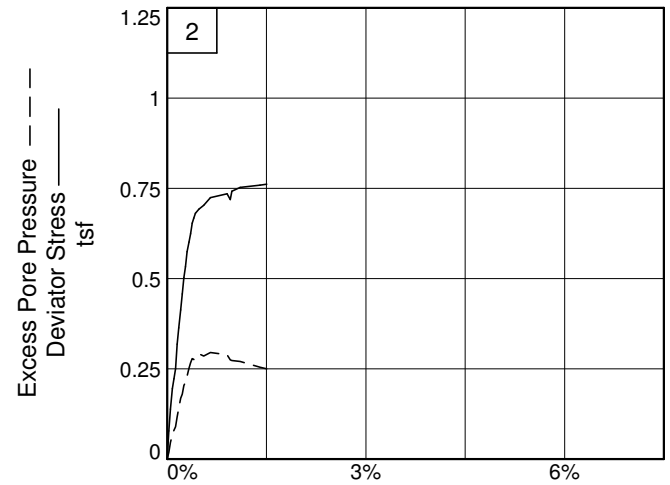
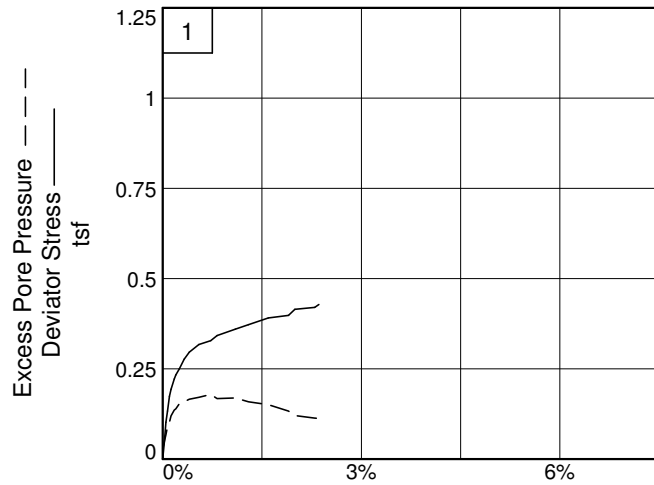
Remarks:

undisturbed sample removed from Shelby tube using piston extruder
middle 18 inches used out of 24" recovery

Proj. No.: 123456789

Figure 21

TRIAXIAL TEST, 2nd PAGE OF REPORT



Client: Enterprising Ideas, Inc.

Project: Lakeside Amusement Park

Location: CUPP trial imported cupp test

Project No.: 123456789

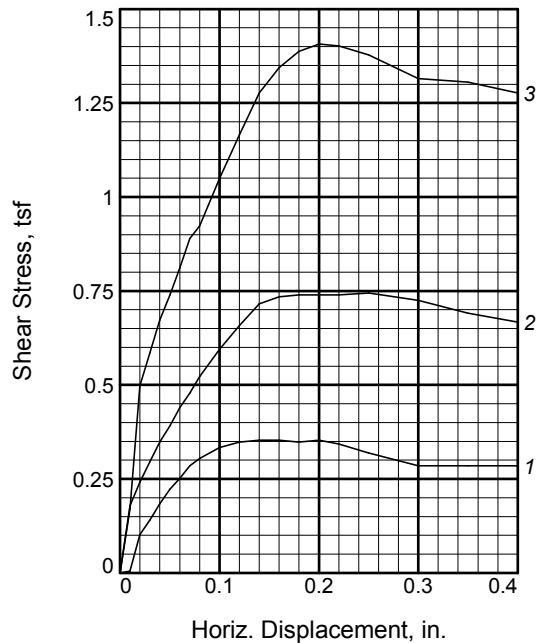
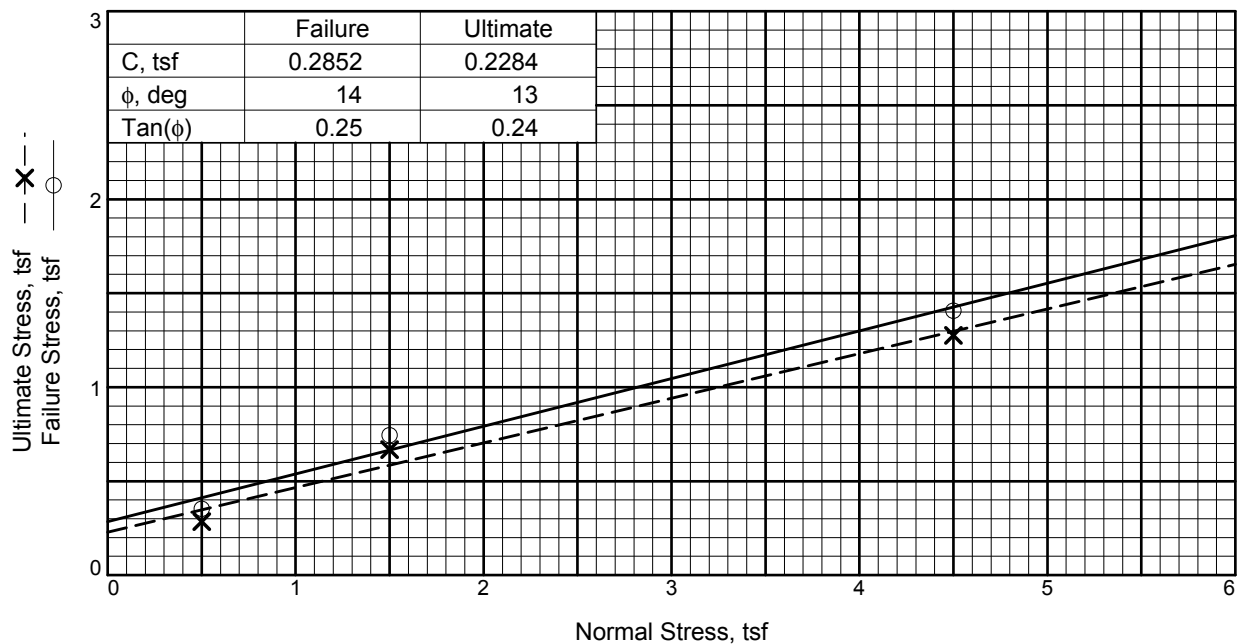
Depth: 1234

Figure _____

Sample Number: 2

Poudre Valley Geotechnical Engineers

DIRECT SHEAR TEST REPORT



Specimen Numbers		1	2	3
Initial	Water Content, %	16.9	13.7	15.5
	Dry Density, pcf	112.5	119.1	111.3
	Saturation, %	94.9	93.3	84.4
	Void Ratio	0.4709	0.3888	0.4870
	Diameter, in.	2.500	2.500	2.500
	Height, in.	0.937	1.031	1.218
At Test	Water Content, %	16.8	13.9	17.1
	Dry Density, pcf	113.9	120.1	112.8
	Saturation, %	98.1	97.9	97.0
	Void Ratio	0.4525	0.3772	0.4671
	Diameter, in.	2.500	2.500	2.500
	Height, in.	0.925	1.022	1.202
Normal Stress, tsf		0.5000	1.5000	4.5000
Failure Stress, tsf		0.3529	0.7445	1.4068
Displacement, in.		0.160	0.250	0.200
Ultimate Stress, tsf		0.2852	0.6672	1.2763
Displacement, in.		0.300	0.400	0.400
Strain rate, in./min.		6.000	10.000	8.000

Sample Type: Undisturbed
Description: Brown, moist silty clayey SAND

LL= 17.9 **PL=** 11.3 **PI=** 6.6

Assumed Specific Gravity= 2.65

Remarks: trial data entry
for the SHW direct shear
test type

Figure Fig1

Client: Enterprising Ideas, Inc.

Project: Lakeside Amusement Park

Location: DS Direct Shear NO VERT

Sample Number: 4 **Depth:** 6' - 7'

Proj. No.: 123456789

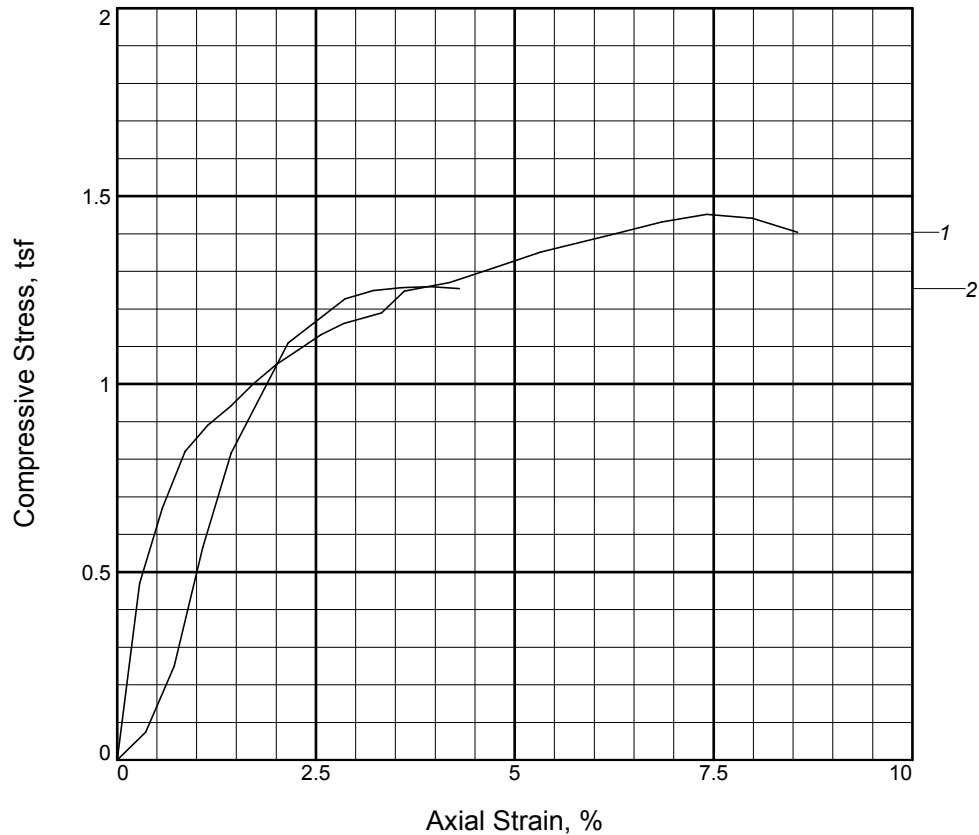
Date Sampled: May 19, 1995



Tested By: SKV **Checked By:** HLV

UNCONFINED COMPRESSION TEST REPORT

UNCONFINED COMPRESSION TEST



Specimen Numbers	1	2		
Unconfined strength, tsf	1.4514	1.2589		
Undrained shear strength, tsf	0.7257	0.6295		
Failure strain, %	7.4	3.9		
Strain rate, in./min.	7.000	2.000		
Water content, %	22.7	18.0		
Wet density, pcf	125.5	124.5		
Dry density, pcf	102.3	105.5		
Saturation, %	97.3	83.9		
Void ratio	0.6169	0.5685		
Specimen diameter, in.	2.510	1.313		
Specimen height, in.	5.260	2.790		
Height/diameter ratio	2.10	2.12		

Description: Brown-gray silty clay for the 2nd time

LL = 27.2 **PL** = 11.1 **PI** = 16.1 **Assumed GS**= 2.65 **Type:** Undisturbed

Project No.: 123456789

Date Sampled: 6/30/84

Remarks:

Sample locations:

1-Boring 15 @ 4.5' - 6.0'

2 - Boring 7 @ 6.0' - 7.0'

Figure MWV1

Client: Enterprising Ideas, Inc.

Project: Lakeside Amusement Park

Location: UCC Unconfined - file DEMO1

Sample Number: 3 **Depth:** 5



Tested By: MIKE **Checked By:** FRED

SAMPLE TEST SUMMARY REPORT

TRIAXIAL COMPRESSION TEST
CU with Pore Pressures

7/14/2011
11:02 AM

Date:
Client: Enterprising Ideas, Inc.
Project: Lakeside Amusement Park
Project No.: 123456789
Location: CUPP trial imported cupp test
Depth: 1234 **Sample Number:** 2
Description: Brown/gray silty clay, moist, stiff
Remarks: undisturbed sample removed from Shelby tube using piston extruder
middle 18 inches used out of 24" recovery

Type of Sample:

Assumed Specific Gravity=2.65

LL=

PL=

PI=

Test Method: COE uniform strain

Parameters for Specimen No. 1				
Specimen Parameter	Initial	Saturated	Consolidated	Final
Moisture content: Moist soil+tare, gms.	11.000			11.000
Moisture content: Dry soil+tare, gms.	10.000			10.000
Moisture content: Tare, gms.	0.000			0.000
Moisture, %	10.0	21.9	21.9	10.0
Moist specimen weight, gms.	400.00			
Diameter, in.	2.010	2.010	2.010	
Area, in. ²	3.173	3.173	3.173	
Height, in.	4.170	4.170	4.170	
Net decrease in height, in.		0.000	0.000	
Wet density, pcf	115.2	127.6	127.6	
Dry density, pcf	104.7	104.7	104.7	
Void ratio	0.5801	0.5801	0.5801	
Saturation, %	45.7	100.0	100.0	

Test Readings for Specimen No. 1

Consolidation cell pressure = 65.118 psi (4.6885 tsf)

Consolidation back pressure = 60.000 psi (4.3200 tsf)

Consolidation effective confining stress = 0.3685 tsf

Strain rate, in./min. = 0.000

Fail. Stress = 0.4279 tsf at reading no. 20

Test Readings for Specimen No. 1

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Eff. Stress tsf	Major Eff. Stress tsf	1:3 Ratio	Pore Press. psi	P tsf	Q tsf
0	0.0027	4.6	0	0.0	0.0000	0.3398	0.3398	1.00	60.398	0.3398	0.0000
1	0.0037	6.7	2	0.0	0.0459	0.3208	0.3668	1.14	60.662	0.3438	0.0230
2	0.0048	9.1	4	0.0	0.1017	0.3009	0.4026	1.34	60.939	0.3518	0.0509
3	0.0058	10.5	6	0.1	0.1331	0.2777	0.4108	1.48	61.261	0.3443	0.0665
4	0.0068	12.3	8	0.1	0.1734	0.2668	0.4402	1.65	61.412	0.3535	0.0867
5	0.0079	13.2	9	0.1	0.1931	0.2485	0.4416	1.78	61.667	0.3450	0.0965
6	0.0100	14.4	10	0.2	0.2219	0.2332	0.4551	1.95	61.879	0.3442	0.1110
7	0.0110	15.0	10	0.2	0.2336	0.2296	0.4631	2.02	61.930	0.3463	0.1168
8	0.0131	15.7	11	0.2	0.2504	0.2148	0.4652	2.17	62.135	0.3400	0.1252
9	0.0162	16.9	12	0.3	0.2765	0.2094	0.4859	2.32	62.209	0.3477	0.1382
10	0.0193	17.7	13	0.4	0.2960	0.2027	0.4986	2.46	62.303	0.3506	0.1480
11	0.0255	18.7	14	0.5	0.3171	0.1974	0.5145	2.61	62.376	0.3559	0.1585
12	0.0328	19.2	15	0.7	0.3284	0.1896	0.5180	2.73	62.485	0.3538	0.1642
13	0.0370	19.9	15	0.8	0.3424	0.2014	0.5437	2.70	62.321	0.3725	0.1712
14	0.0484	20.7	16	1.1	0.3596	0.1992	0.5589	2.81	62.351	0.3791	0.1798
15	0.0568	21.3	17	1.3	0.3721	0.2096	0.5817	2.78	62.207	0.3957	0.1861
16	0.0693	22.1	17	1.6	0.3907	0.2179	0.6087	2.79	62.091	0.4133	0.1954
17	0.0818	22.5	18	1.9	0.3984	0.2351	0.6335	2.69	61.853	0.4343	0.1992
18	0.0860	23.3	19	2.0	0.4146	0.2476	0.6622	2.67	61.679	0.4549	0.2073
19	0.0985	23.6	19	2.3	0.4203	0.2546	0.6749	2.65	61.582	0.4648	0.2102
20	0.1011	24.0	19	2.4	0.4279	0.2556	0.6835	2.67	61.568	0.4695	0.2139

Parameters for Specimen No. 2

Specimen Parameter	Initial	Saturated	Consolidated	Final
Moisture content: Moist soil+tare, gms.	11.000			11.000
Moisture content: Dry soil+tare, gms.	10.000			10.000
Moisture content: Tare, gms.	0.000			0.000
Moisture, %	10.0	21.5	21.5	10.0
Moist specimen weight, gms.	400.00			
Diameter, in.	2.031	2.031	2.031	
Area, in. ²	3.240	3.240	3.240	
Height, in.	4.060	4.060	4.060	
Net decrease in height, in.		0.000	0.000	
Wet density, pcf	115.9	128.0	128.0	
Dry density, pcf	105.3	105.3	105.3	
Void ratio	0.5708	0.5708	0.5708	
Saturation, %	46.4	100.0	100.0	

Test Readings for Specimen No. 2

Consolidation cell pressure = 69.911 psi (5.0336 tsf)

Consolidation back pressure = 60.000 psi (4.3200 tsf)

Consolidation effective confining stress = 0.7136 tsf

Strain rate, in./min. = 163.000

Fail. Stress = 0.7616 tsf at reading no. 26

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Eff. Stress tsf	Major Eff. Stress tsf	1:3 Ratio	Pore Press. psi	P tsf	Q tsf
0	0.0033	4.0	0	0.0	0.0000	0.7128	0.7128	1.00	60.011	0.7128	0.0000
1	0.0043	7.5	4	0.0	0.0780	0.6953	0.7733	1.11	60.254	0.7343	0.0390
2	0.0053	10.3	6	0.1	0.1383	0.6673	0.8056	1.21	60.643	0.7364	0.0692
3	0.0063	12.8	9	0.1	0.1948	0.6464	0.8413	1.30	60.933	0.7438	0.0974
4	0.0073	14.1	10	0.1	0.2228	0.6341	0.8569	1.35	61.104	0.7455	0.1114
5	0.0084	15.3	11	0.1	0.2501	0.6237	0.8738	1.40	61.249	0.7487	0.1250
6	0.0094	18.4	14	0.2	0.3180	0.5962	0.9142	1.53	61.630	0.7552	0.1590
7	0.0104	20.4	16	0.2	0.3635	0.5728	0.9363	1.63	61.956	0.7545	0.1818
8	0.0114	22.7	19	0.2	0.4135	0.5455	0.9590	1.76	62.335	0.7523	0.2068
9	0.0124	24.7	21	0.2	0.4579	0.5333	0.9912	1.86	62.504	0.7623	0.2289
10	0.0135	26.7	23	0.3	0.5023	0.5095	1.0118	1.99	62.834	0.7607	0.2512
11	0.0145	28.1	24	0.3	0.5330	0.5006	1.0335	2.06	62.959	0.7670	0.2665
12	0.0155	30.0	26	0.3	0.5748	0.4837	1.0586	2.19	63.193	0.7711	0.2874
13	0.0165	31.2	27	0.3	0.6012	0.4614	1.0625	2.30	63.503	0.7620	0.3006
14	0.0175	32.2	28	0.4	0.6241	0.4464	1.0704	2.40	63.711	0.7584	0.3120
15	0.0185	33.6	30	0.4	0.6538	0.4352	1.0890	2.50	63.867	0.7621	0.3269
16	0.0196	34.2	30	0.4	0.6674	0.4378	1.1052	2.52	63.831	0.7715	0.3337
17	0.0206	34.8	31	0.4	0.6813	0.4322	1.1134	2.58	63.908	0.7728	0.3406
18	0.0226	35.3	31	0.5	0.6924	0.4219	1.1142	2.64	64.051	0.7681	0.3462
19	0.0257	35.9	32	0.6	0.7036	0.4284	1.1320	2.64	63.961	0.7802	0.3518
20	0.0297	36.8	33	0.7	0.7243	0.4180	1.1423	2.73	64.105	0.7802	0.3621
21	0.0399	37.4	33	0.9	0.7353	0.4242	1.1595	2.73	64.019	0.7919	0.3676
22	0.0420	36.7	33	1.0	0.7193	0.4384	1.1577	2.64	63.822	0.7980	0.3597
23	0.0430	37.8	34	1.0	0.7421	0.4405	1.1826	2.68	63.793	0.8115	0.3710
24	0.0481	38.3	34	1.1	0.7527	0.4433	1.1960	2.70	63.754	0.8196	0.3764
25	0.0602	38.7	35	1.4	0.7589	0.4591	1.2180	2.65	63.534	0.8386	0.3795
26	0.0643	38.8	35	1.5	0.7616	0.4634	1.2250	2.64	63.476	0.8442	0.3808

Parameters for Specimen No. 3

Specimen Parameter	Initial	Saturated	Consolidated	Final
Moisture content: Moist soil+tare, gms.	11.000			11.000
Moisture content: Dry soil+tare, gms.	10.000			10.000
Moisture content: Tare, gms.	0.000			0.000
Moisture, %	10.0	20.9	20.9	10.0
Moist specimen weight, gms.	400.00			
Diameter, in.	2.032	2.032	2.032	
Area, in. ²	3.243	3.243	3.243	
Height, in.	4.010	4.010	4.010	
Net decrease in height, in.		0.000	0.000	
Wet density, pcf	117.2	128.8	128.8	
Dry density, pcf	106.5	106.5	106.5	
Void ratio	0.5530	0.5530	0.5530	
Saturation, %	47.9	100.0	100.0	

Test Readings for Specimen No. 3

Consolidation cell pressure = 80.034 psi (5.7624 tsf)

Consolidation back pressure = 60.000 psi (4.3200 tsf)

Consolidation effective confining stress = 1.4424 tsf

Strain rate, in./min. = 542.000

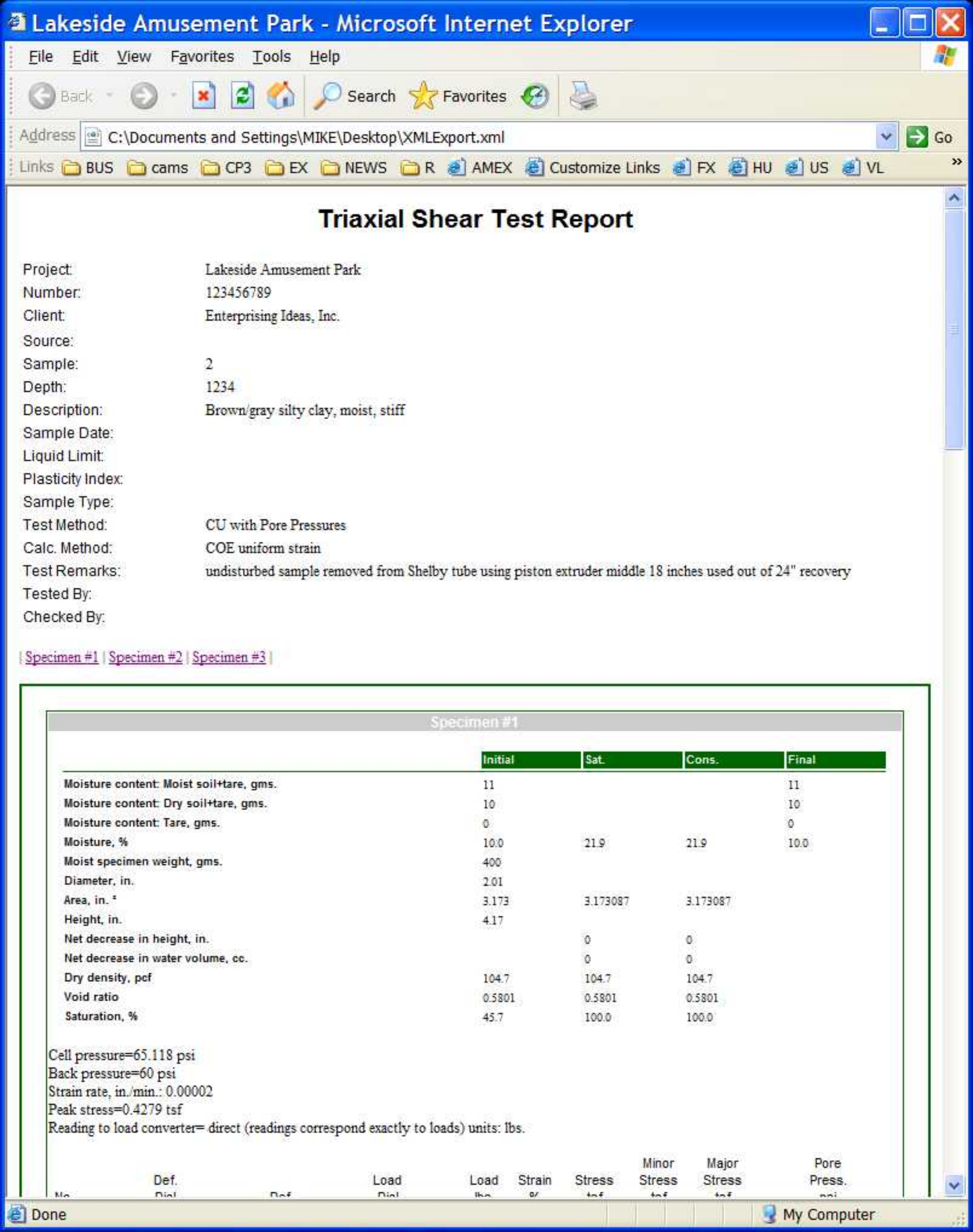
Fail. Stress = 1.0226 tsf at reading no. 29

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Eff. Stress tsf	Major Eff. Stress tsf	1:3 Ratio	Pore Press. psi	P tsf	Q tsf
0	0.0023	3.9	0	0.0	0.0000	1.4186	1.4186	1.00	60.331	1.4186	0.0000
1	0.0038	6.5	3	0.0	0.0570	1.3877	1.4447	1.04	60.760	1.4162	0.0285
2	0.0049	10.4	6	0.1	0.1431	1.3522	1.4952	1.11	61.254	1.4237	0.0715
3	0.0059	12.9	9	0.1	0.1994	1.3236	1.5230	1.15	61.651	1.4233	0.0997
4	0.0079	16.6	13	0.1	0.2807	1.2893	1.5700	1.22	62.128	1.4296	0.1404
5	0.0089	19.2	15	0.2	0.3387	1.2475	1.5862	1.27	62.707	1.4169	0.1693
6	0.0099	21.7	18	0.2	0.3940	1.2075	1.6014	1.33	63.264	1.4044	0.1970
7	0.0109	24.1	20	0.2	0.4465	1.1802	1.6267	1.38	63.642	1.4035	0.2233
8	0.0119	25.7	22	0.2	0.4826	1.1575	1.6401	1.42	63.957	1.3988	0.2413
9	0.0129	28.1	24	0.3	0.5349	1.1308	1.6657	1.47	64.329	1.3982	0.2674
10	0.0139	30.3	26	0.3	0.5826	1.1003	1.6829	1.53	64.752	1.3916	0.2913
11	0.0149	32.8	29	0.3	0.6393	1.0850	1.7242	1.59	64.965	1.4046	0.3196
12	0.0159	34.5	31	0.3	0.6755	1.0651	1.7406	1.63	65.241	1.4028	0.3377
13	0.0169	35.8	32	0.4	0.7047	1.0297	1.7344	1.68	65.733	1.3820	0.3524
14	0.0179	37.4	33	0.4	0.7396	1.0160	1.7556	1.73	65.923	1.3858	0.3698
15	0.0189	39.5	36	0.4	0.7850	1.0085	1.7935	1.78	66.027	1.4010	0.3925
16	0.0199	41.0	37	0.4	0.8180	0.9832	1.8011	1.83	66.379	1.3922	0.4090
17	0.0209	42.0	38	0.5	0.8417	0.9782	1.8199	1.86	66.448	1.3990	0.4208
18	0.0219	43.4	39	0.5	0.8707	0.9635	1.8342	1.90	66.653	1.3988	0.4354
19	0.0229	44.4	40	0.5	0.8931	0.9461	1.8392	1.94	66.894	1.3927	0.4466
20	0.0240	45.1	41	0.5	0.9096	0.9301	1.8397	1.98	67.117	1.3849	0.4548
21	0.0250	45.8	42	0.6	0.9245	0.9228	1.8474	2.00	67.217	1.3851	0.4623
22	0.0260	46.8	43	0.6	0.9468	0.9224	1.8691	2.03	67.223	1.3958	0.4734
23	0.0280	47.6	44	0.6	0.9637	0.9028	1.8664	2.07	67.496	1.3846	0.4818
24	0.0300	48.6	45	0.7	0.9852	0.9025	1.8877	2.09	67.499	1.3951	0.4926
25	0.0340	49.2	45	0.8	0.9957	0.8711	1.8668	2.14	67.936	1.3689	0.4979
26	0.0370	50.1	46	0.9	1.0152	0.8899	1.9051	2.14	67.674	1.3975	0.5076

Test Readings for Specimen No. 3

No.	Def. Dial in.	Load Dial	Load lbs.	Strain %	Deviator Stress tsf	Minor Eff. Stress tsf	Major Eff. Stress tsf	1:3 Ratio	Pore Press. psi	P tsf	Q tsf
27	0.0471	50.4	46	1.1	1.0206	0.8910	1.9116	2.15	67.659	1.4013	0.5103
28	0.0511	49.8	46	1.2	1.0045	0.8876	1.8921	2.13	67.707	1.3898	0.5023
29	0.0551	50.6	47	1.3	1.0226	0.8921	1.9147	2.15	67.644	1.4034	0.5113
30	0.0631	49.5	46	1.5	0.9960	0.8996	1.8957	2.11	67.539	1.3977	0.4980
31	0.0671	50.0	46	1.6	1.0066	0.9074	1.9141	2.11	67.431	1.4108	0.5033
32	0.0711	49.2	45	1.7	0.9879	0.9030	1.8909	2.09	67.492	1.3970	0.4939
33	0.0831	49.7	46	2.0	0.9963	0.9237	1.9199	2.08	67.205	1.4218	0.4981
34	0.0912	49.0	45	2.2	0.9781	0.9161	1.8942	2.07	67.311	1.4051	0.4891
35	0.0992	50.1	46	2.4	0.9996	0.9302	1.9298	2.07	67.115	1.4300	0.4998
36	0.1072	49.3	45	2.6	0.9809	0.9177	1.8986	2.07	67.289	1.4081	0.4905
37	0.1152	49.9	46	2.8	0.9915	0.9364	1.9279	2.06	67.029	1.4321	0.4958
38	0.1232	49.1	45	3.0	0.9714	0.9545	1.9259	2.02	66.777	1.4402	0.4857
39	0.1352	48.8	45	3.3	0.9630	0.9606	1.9235	2.00	66.693	1.4421	0.4815
40	0.1473	49.0	45	3.6	0.9643	0.9716	1.9360	1.99	66.539	1.4538	0.4822
41	0.1513	48.2	44	3.7	0.9460	0.9588	1.9048	1.99	66.717	1.4318	0.4730
42	0.1553	49.2	45	3.8	0.9657	0.9771	1.9428	1.99	66.464	1.4599	0.4828
43	0.1673	49.6	46	4.1	0.9711	0.9771	1.9481	1.99	66.464	1.4626	0.4855
44	0.1713	50.5	47	4.2	0.9893	0.9785	1.9678	2.01	66.444	1.4731	0.4946
45	0.1753	49.6	46	4.3	0.9691	0.9796	1.9487	1.99	66.429	1.4641	0.4846
46	0.1833	50.4	46	4.5	0.9840	0.9816	1.9656	2.00	66.401	1.4736	0.4920
47	0.1914	49.8	46	4.7	0.9702	0.9911	1.9613	1.98	66.268	1.4762	0.4851
48	0.1994	50.6	47	4.9	0.9849	0.9836	1.9685	2.00	66.373	1.4761	0.4924
49	0.2134	50.3	46	5.3	0.9753	0.9962	1.9715	1.98	66.198	1.4839	0.4877
50	0.2234	50.9	47	5.5	0.9854	0.9966	1.9819	1.99	66.193	1.4892	0.4927
51	0.2311	51.4	47	5.7	0.9926	0.9965	1.9891	2.00	66.194	1.4928	0.4963

SAMPLE TEST DATA IN XML FORMAT



Reading to load converter= direct (readings correspond exactly to loads) units: lbs.

No.	Def. Dial	Def.	Load Dial	Load lbs.	Strain %	Stress tsf	Minor Stress tsf	Major Stress tsf	Pore Press. psi
0	2.67E-03	0.0000	4.63894	0	0.0	0.0000	0.3398	0.3398	60.398
1	3.71E-03	0.0010	6.66381	2	0.0	0.0459	0.3208	0.3668	60.662
2	4.75E-03	0.0021	9.12502	4	0.0	0.1017	0.3009	0.4026	60.939
3	5.79E-03	0.0031	10.5088	6	0.1	0.1331	0.2777	0.4108	61.261
4	6.83E-03	0.0042	12.2872	8	0.1	0.1734	0.2668	0.4402	61.412
5	7.87E-03	0.0052	13.1593	9	0.1	0.1931	0.2485	0.4416	61.667
6	9.95E-03	0.0073	14.4359	10	0.2	0.2219	0.2332	0.4551	61.879
7	0.01099	0.0083	14.9525	10	0.2	0.2336	0.2296	0.4631	61.9296861676
8	0.0130695431472	0.0104	15.7036663673	11	0.2	0.2504	0.2148	0.4652	62.1346610228
9	0.0161870558376	0.0135	16.8635668817	12	0.3	0.2765	0.2094	0.4859	62.2094981965
10	0.0193065989848	0.0166	17.7345927425	13	0.4	0.2960	0.2027	0.4986	62.3033382474
11	0.0255441624365	0.0229	18.6898049308	14	0.5	0.3171	0.1974	0.5145	62.3762181959
12	0.0328253807107	0.0302	19.2163821568	15	0.7	0.3284	0.1896	0.5180	62.4849331581
13	0.0369852791878	0.0343	19.851906395	15	0.8	0.3424	0.2014	0.5437	62.3212735472
14	0.0484319796954	0.0458	20.6646070875	16	1.1	0.3596	0.1992	0.5589	62.3507030967
15	0.0567705583756	0.0541	21.2544616186	17	1.3	0.3721	0.2096	0.5817	62.2069360108
16	0.0692852791878	0.0666	22.1386931778	17	1.6	0.3907	0.2179	0.6087	62.0912462097
17	0.0817989847716	0.0791	22.5348641315	18	1.9	0.3984	0.2351	0.6335	61.8525003237
18	0.0859677664975	0.0833	23.283187044	19	2.0	0.4146	0.2476	0.6622	61.6787343136
19	0.0984766497462	0.0958	23.5979228572	19	2.3	0.4203	0.2546	0.6749	61.5819050461
20	0.10113	0.0985	23.9506	19	2.4	0.4279	0.2556	0.6835	61.5676706811

Specimen #2

	Initial	Sat.	Cons.	Final
Moisture content: Moist soil+tare, gms.	11			11
Moisture content: Dry soil+tare, gms.	10			10
Moisture content: Tare, gms.	0			0
Moisture, %	10.0	21.5	21.5	10.0
Moist specimen weight, gms.	400			
Diameter, in.	2.031			
Area, in. ²	3.24	3.239737	3.239737	
Height, in.	4.06			
Net decrease in height, in.		0	0	
Net decrease in water volume, cc.		0	0	
Dry density, pcf	105.3	105.3	105.3	
Void ratio	0.5708	0.5708	0.5708	
Saturation, %	46.4	100.0	100.0	

Cell pressure=69.911 psi
 Back pressure=60 psi
 Strain rate, in./min.: 163
 Peak stress=0.7616 tsf
 Reading to load converter= direct (readings correspond exactly to loads) units: lbs.

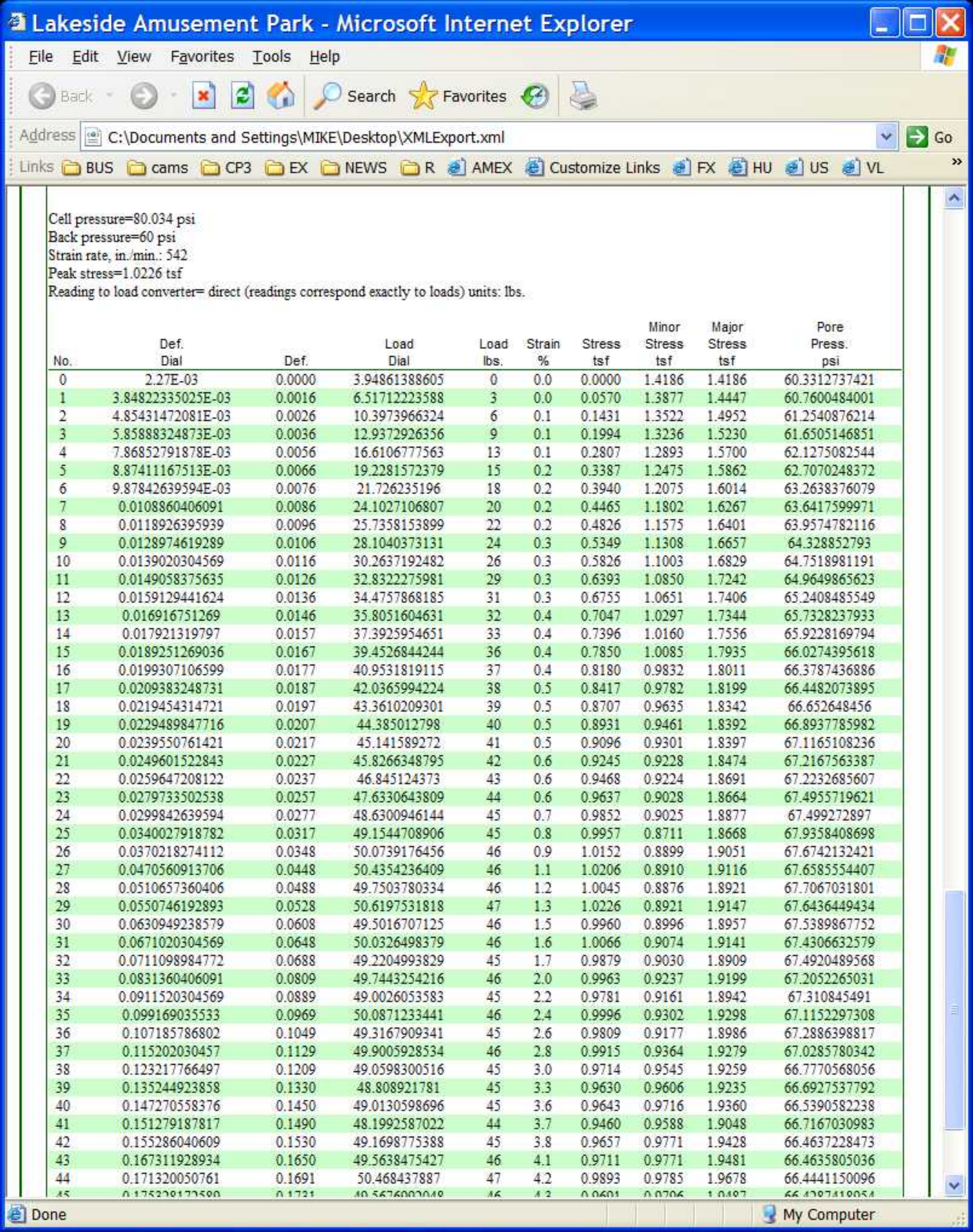
According to load correction factor (readings correspond directly to load cell output)

No.	Def. Dial	Def.	Load Dial	Load lbs.	Strain %	Stress tsf	Minor Stress tsf	Major Stress tsf	Pore Press. psi
0	3.27E-03	0.0000	4.03147	0	0.0	0.0000	0.7128	0.7128	60.011
1	4.29263959391E-03	0.0010	7.5403437713	4	0.0	0.0780	0.6953	0.7733	60.2539811405
2	5.31040609137E-03	0.0020	10.2579664662	6	0.1	0.1383	0.6673	0.8056	60.6432910217
3	6.32614213198E-03	0.0031	12.805015556	9	0.1	0.1948	0.6464	0.8413	60.9329959342
4	7.34593908629E-03	0.0041	14.0683607084	10	0.1	0.2228	0.6341	0.8569	61.1043421022
5	8.36370558376E-03	0.0051	15.2986916146	11	0.1	0.2501	0.6237	0.8738	61.24896325
6	9.38172588832E-03	0.0061	18.3624136566	14	0.2	0.3180	0.5962	0.9142	61.6303374728
7	0.0103997461929	0.0071	20.4181007163	16	0.2	0.3635	0.5728	0.9363	61.9558418132
8	0.0114180203046	0.0081	22.6762751524	19	0.2	0.4135	0.5455	0.9590	62.334760608
9	0.0124373096447	0.0092	24.6807901307	21	0.2	0.4579	0.5333	0.9912	62.5035801762
10	0.013454822335	0.0102	26.6908074833	23	0.3	0.5023	0.5095	1.0118	62.8342444739
11	0.0144728426396	0.0112	28.079606771	24	0.3	0.5330	0.5006	1.0335	62.9587951671
12	0.0154906091371	0.0122	29.9746244995	26	0.3	0.5748	0.4837	1.0586	63.1925590254
13	0.0165088832487	0.0132	31.1697402099	27	0.3	0.6012	0.4614	1.0625	63.5030105248
14	0.0175271573604	0.0143	32.2107894382	28	0.4	0.6241	0.4464	1.0704	63.7112236981
15	0.0185446700508	0.0153	33.5621725803	30	0.4	0.6538	0.4352	1.0890	63.8671255801
16	0.0195637055838	0.0163	34.1828404077	30	0.4	0.6674	0.4378	1.1052	63.8309702932
17	0.0205827411168	0.0173	34.8167139337	31	0.4	0.6813	0.4322	1.1134	63.9084052384
18	0.0226182741117	0.0193	35.3339371232	31	0.5	0.6924	0.4219	1.1142	64.0514250202
19	0.0256733502538	0.0224	35.8660167235	32	0.6	0.7036	0.4284	1.1320	63.9609300451
20	0.0297454314721	0.0265	36.8349848478	33	0.7	0.7243	0.4180	1.1423	64.1052309197
21	0.0399271573604	0.0367	37.4176862922	33	0.9	0.7353	0.4242	1.1595	64.0191485977
22	0.0419631979695	0.0387	36.708980475	33	1.0	0.7193	0.4384	1.1577	63.8222873305
23	0.042980964467	0.0397	37.7522306531	34	1.0	0.7421	0.4405	1.1826	63.7928221951
24	0.0480604060914	0.0448	38.2788078791	34	1.1	0.7527	0.4433	1.1960	63.7542114802
25	0.0602434010152	0.0570	38.6661750338	35	1.4	0.7589	0.4591	1.2180	63.5343261277
26	0.0643	0.0610	38.824	35	1.5	0.7616	0.4634	1.2250	63.4755026146

Specimen #3

	Initial	Sat.	Cons.	Final
Moisture content: Moist soil+tare, gms.	11			11
Moisture content: Dry soil+tare, gms.	10			10
Moisture content: Tare, gms.	0			0
Moisture, %	10.0	20.9	20.9	10.0
Moist specimen weight, gms.	400			
Diameter, in.	2.032			
Area, in. ²	3.243	3.242928	3.242928	
Height, in.	4.01			
Net decrease in height, in.		0	0	
Net decrease in water volume, cc.		0	0	
Dry density, pcf	106.5	106.5	106.5	
Void ratio	0.5530	0.5530	0.5530	
Saturation, %	47.9	100.0	100.0	

Cell pressure=80.034 psi
Back pressure=60 psi



Cell pressure=80.034 psi									
Back pressure=60 psi									
Strain rate, in./min.: 542									
Peak stress=1.0226 tsf									
Reading to load converter= direct (readings correspond exactly to loads) units: lbs.									
No.	Def. Dial	Def.	Load Dial	Load lbs.	Strain %	Stress tsf	Minor Stress tsf	Major Stress tsf	Pore Press. psi
0	2.27E-03	0.0000	3.94861388605	0	0.0	0.0000	1.4186	1.4186	60.3312737421
1	3.84822335025E-03	0.0016	6.51712223588	3	0.0	0.0570	1.3877	1.4447	60.7600484001
2	4.85431472081E-03	0.0026	10.3973966324	6	0.1	0.1431	1.3522	1.4952	61.2540876214
3	5.85888324873E-03	0.0036	12.9372926356	9	0.1	0.1994	1.3236	1.5230	61.6505146851
4	7.86852791878E-03	0.0056	16.6106777563	13	0.1	0.2807	1.2893	1.5700	62.1275082544
5	8.87411167513E-03	0.0066	19.2281572379	15	0.2	0.3387	1.2475	1.5862	62.7070248372
6	9.87842639594E-03	0.0076	21.726235196	18	0.2	0.3940	1.2075	1.6014	63.2638376079
7	0.0108860406091	0.0086	24.1027106807	20	0.2	0.4465	1.1802	1.6267	63.6417599971
8	0.0118926395939	0.0096	25.7358153899	22	0.2	0.4826	1.1575	1.6401	63.9574782116
9	0.0128974619289	0.0106	28.1040373131	24	0.3	0.5349	1.1308	1.6657	64.328852793
10	0.0139020304569	0.0116	30.2637192482	26	0.3	0.5826	1.1003	1.6829	64.7518981191
11	0.0149058375635	0.0126	32.8322275981	29	0.3	0.6393	1.0850	1.7242	64.9649865623
12	0.0159129441624	0.0136	34.4757868185	31	0.3	0.6755	1.0651	1.7406	65.2408485549
13	0.016916751269	0.0146	35.8051604631	32	0.4	0.7047	1.0297	1.7344	65.7328237933
14	0.017921319797	0.0157	37.3925954651	33	0.4	0.7396	1.0160	1.7556	65.9228169794
15	0.0189251269036	0.0167	39.4526844244	36	0.4	0.7850	1.0085	1.7935	66.0274395618
16	0.0199307106599	0.0177	40.9531819115	37	0.4	0.8180	0.9832	1.8011	66.3787436886
17	0.0209383248731	0.0187	42.0365994224	38	0.5	0.8417	0.9782	1.8199	66.4482073895
18	0.0219454314721	0.0197	43.3610209301	39	0.5	0.8707	0.9635	1.8342	66.652648456
19	0.0229489847716	0.0207	44.385012798	40	0.5	0.8931	0.9461	1.8392	66.8937785982
20	0.0239550761421	0.0217	45.141589272	41	0.5	0.9096	0.9301	1.8397	67.1165108236
21	0.0249601522843	0.0227	45.8266348795	42	0.6	0.9245	0.9228	1.8474	67.2167563387
22	0.0259647208122	0.0237	46.845124373	43	0.6	0.9468	0.9224	1.8691	67.2232685607
23	0.0279733502538	0.0257	47.6330643809	44	0.6	0.9637	0.9028	1.8664	67.4955719621
24	0.0299842639594	0.0277	48.6300946144	45	0.7	0.9852	0.9025	1.8877	67.499272897
25	0.0340027918782	0.0317	49.1544708906	45	0.8	0.9957	0.8711	1.8668	67.9358408698
26	0.0370218274112	0.0348	50.0739176456	46	0.9	1.0152	0.8899	1.9051	67.6742132421
27	0.0470560913706	0.0448	50.4354236409	46	1.1	1.0206	0.8910	1.9116	67.6585554407
28	0.0510657360406	0.0488	49.7503780334	46	1.2	1.0045	0.8876	1.8921	67.7067031801
29	0.0550746192893	0.0528	50.6197531818	47	1.3	1.0226	0.8921	1.9147	67.6436449434
30	0.0630949238579	0.0608	49.5016707125	46	1.5	0.9960	0.8996	1.8957	67.5389867752
31	0.0671020304569	0.0648	50.0326498379	46	1.6	1.0066	0.9074	1.9141	67.4306632579
32	0.0711098984772	0.0688	49.2204993829	45	1.7	0.9879	0.9030	1.8909	67.4920489568
33	0.0831360406091	0.0809	49.7443254216	46	2.0	0.9963	0.9237	1.9199	67.2052265031
34	0.0911520304569	0.0889	49.0026053583	45	2.2	0.9781	0.9161	1.8942	67.310845491
35	0.099169035533	0.0969	50.0871233441	46	2.4	0.9996	0.9302	1.9298	67.1152297308
36	0.107185786802	0.1049	49.3167909341	45	2.6	0.9809	0.9177	1.8986	67.2886398817
37	0.115202030457	0.1129	49.9005928534	46	2.8	0.9915	0.9364	1.9279	67.0285780342
38	0.123217766497	0.1209	49.0598300516	45	3.0	0.9714	0.9545	1.9259	66.7770568056
39	0.135244923858	0.1330	48.808921781	45	3.3	0.9630	0.9606	1.9235	66.6927537792
40	0.147270558376	0.1450	49.0130598696	45	3.6	0.9643	0.9716	1.9360	66.5390582238
41	0.151279187817	0.1490	48.1992587022	44	3.7	0.9460	0.9588	1.9048	66.7167030983
42	0.155286040609	0.1530	49.1698775388	45	3.8	0.9657	0.9771	1.9428	66.4637228473
43	0.167311928934	0.1650	49.5638475427	46	4.1	0.9711	0.9771	1.9481	66.4635805036
44	0.171320050761	0.1691	50.468437887	47	4.2	0.9893	0.9785	1.9678	66.4441150096
45	0.175220172500	0.1721	49.5676007040	46	4.2	0.9601	0.9706	1.9407	66.4707410054