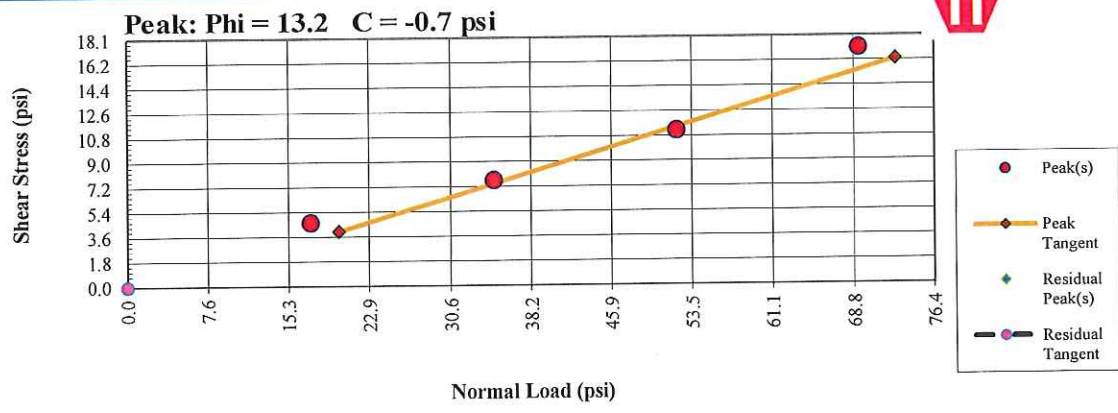


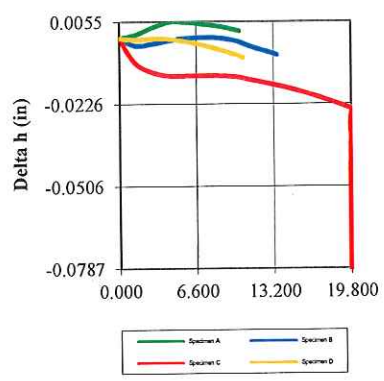
Your Company Name
Direct Shear Test (ASTM D3080)



Date

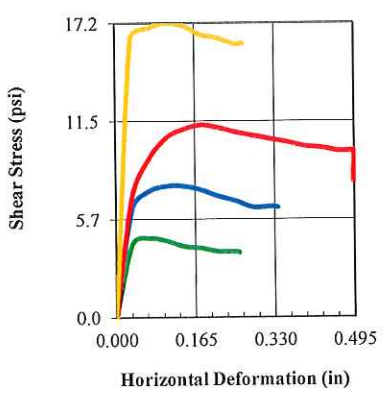


Checked By



	Specimen				
	Initial	A	B	C	D
Moisture (%)	11.76	50.40	50.40	50.40	50.40
Density (pcf)	97.60	72.53	72.53	72.53	72.53
Void Ratio	0.695	1.281	1.281	1.281	1.281
Saturation (%)	44.86	100.00	100.00	100.00	100.00
Diameter (in)	2.500	2.500	2.500	2.500	2.500
Height (in)	1.070	1.070	1.070	1.070	1.070

Date



	Final	A	B	C	D
Moisture (%)	0.00	0.00	0.00	0.00	0.00
Density (pcf)	109.08	109.08	109.08	109.08	109.08
Void Ratio	0.517	0.517	0.517	0.517	0.517
Saturation (%)	0.00	0.00	0.00	0.00	0.00
Diameter (in)	2.500	2.500	2.500	2.500	2.500
Height (in)	1.070	1.070	1.070	1.070	1.070
Normal Stress (psi)	17.4	34.7	52.1	69.3	
Peak Stress (psi)	4.6	7.7	11.2	17.2	
Residual Stress (psi)					
Strain (%)	10.240	5.680	19.760	4.160	
Rate (in/min)	0.012	0.012	0.012	0.012	

Date

Tested By

Project Date	
Date	07/26/06

Project:	Testing	N/A	N/A	N/A	N/A
Location:	Bridge 5B				
Project Number:	5B				
Boring Number:	7				
Sample Number:	23				
Depth:	5'	Failure Photographs			
Sample Type:	Remolded				
Description:	Sand				
Test Type:	Direct Shear				
Remarks:					



Date

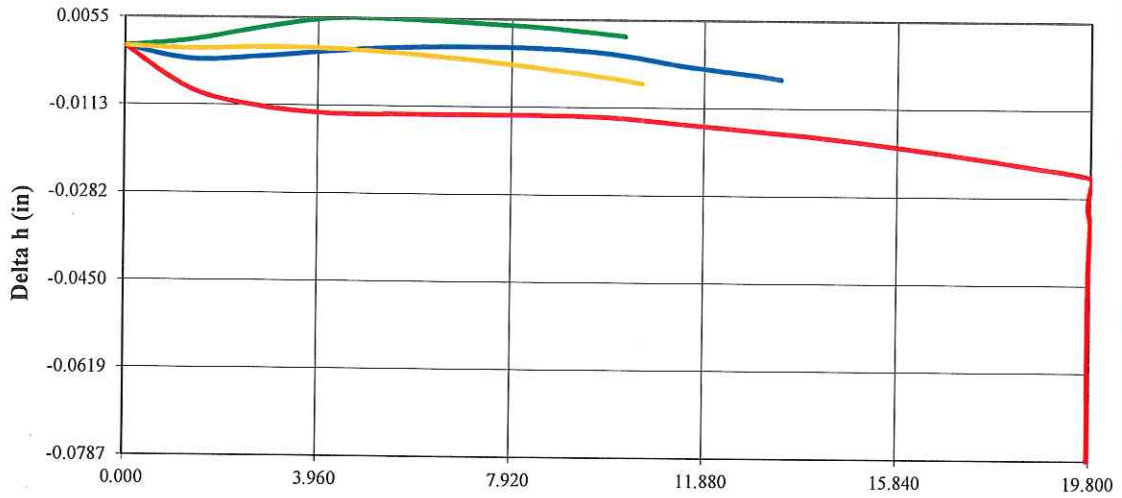
Checked By

Date

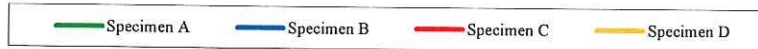
Date

Tested By

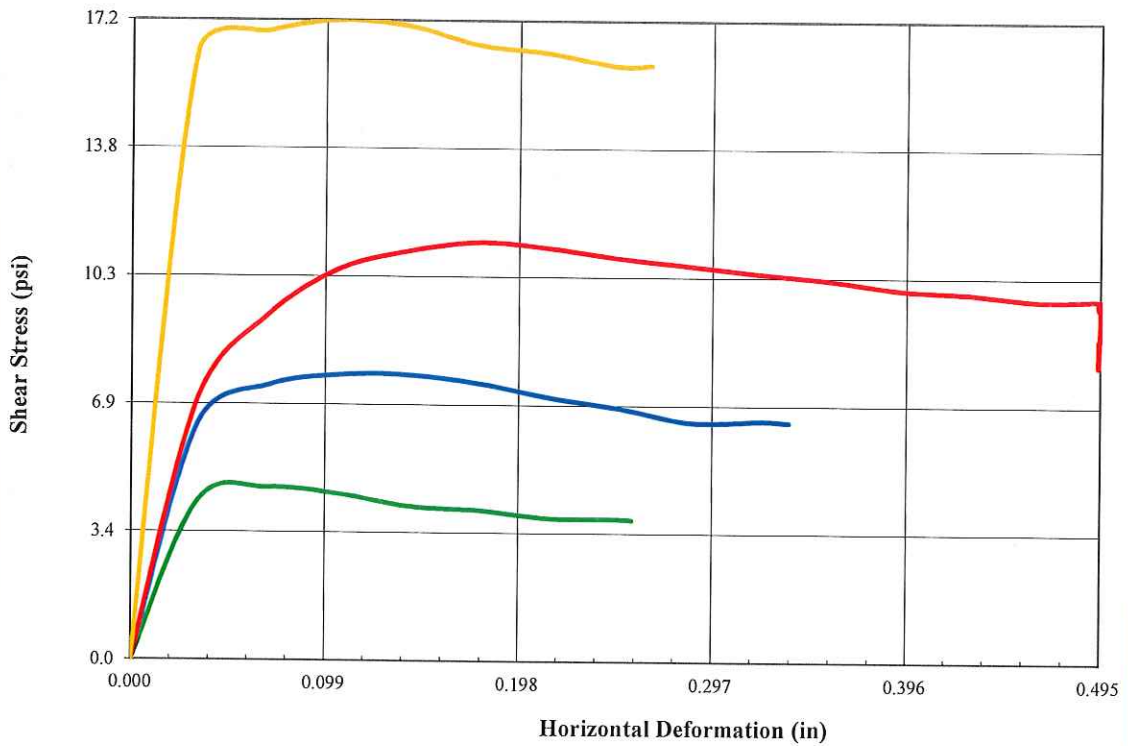
Delta h



Strain (%)



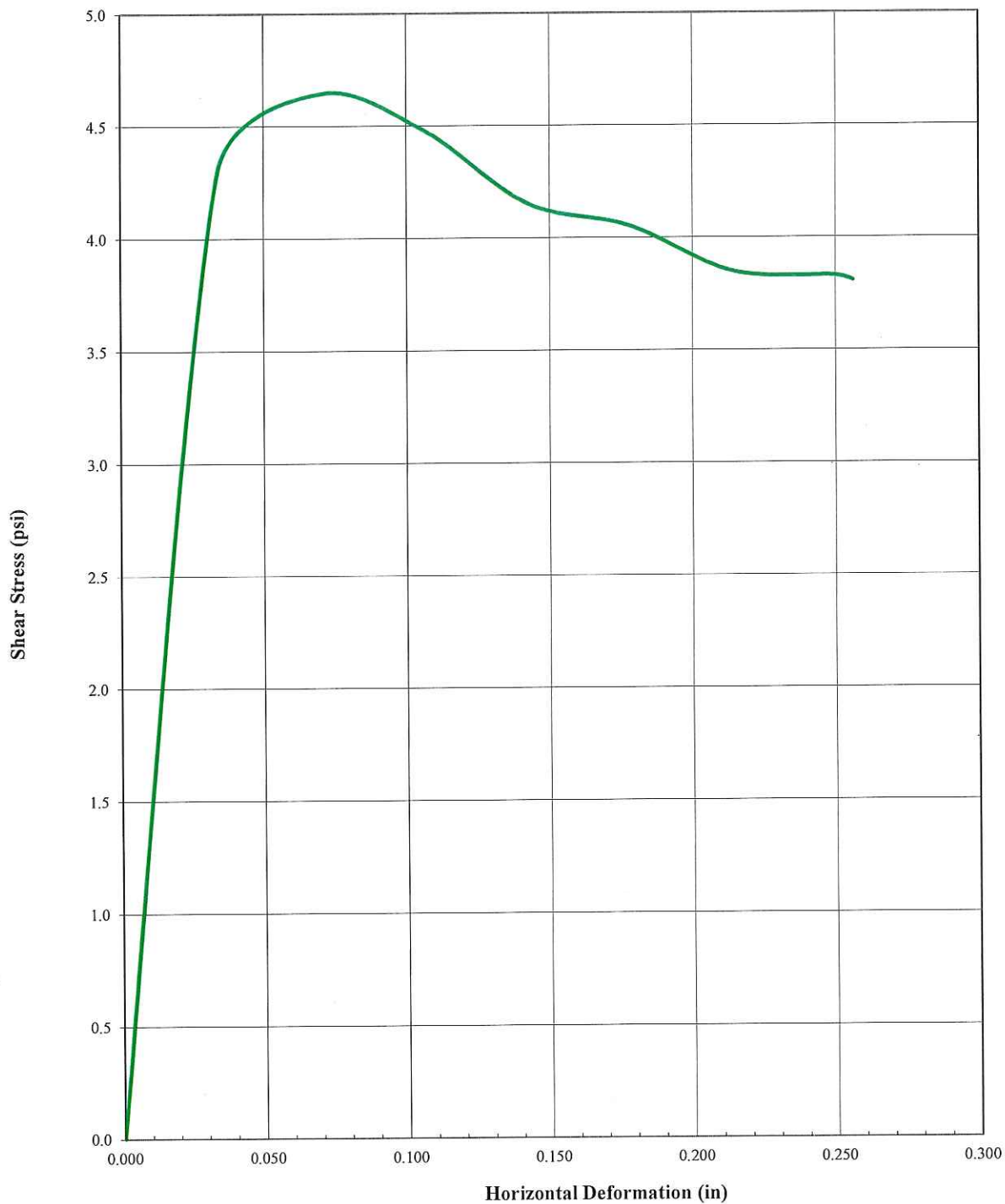
Stress-Deformation



Your Company Name
Direct Shear Test



Specimen A Stress-Deformation



Date

Checked By

Date

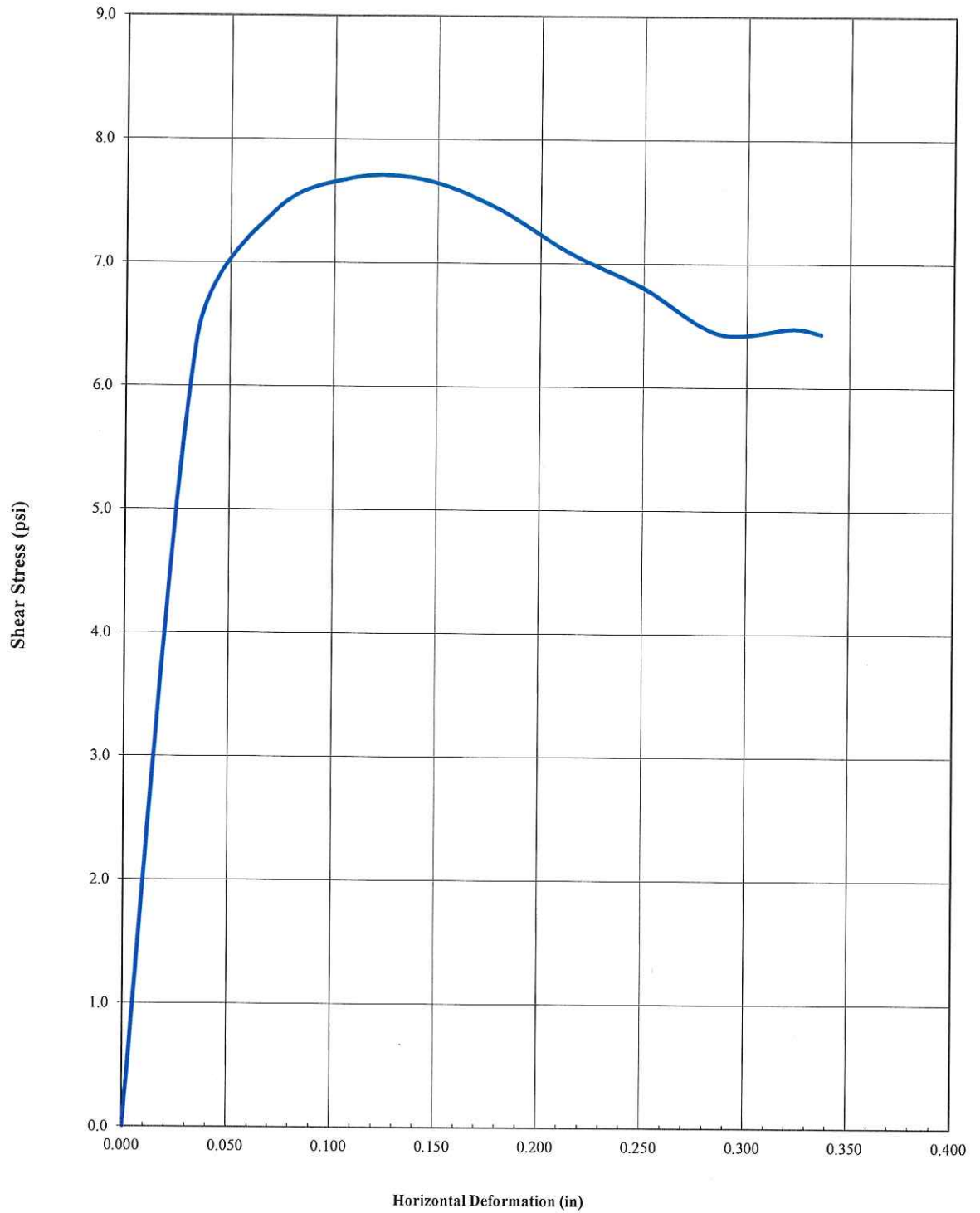
Date

Tested By

Your Company Name
Direct Shear Test



Specimen B Stress-Deformation



Date

Checked By

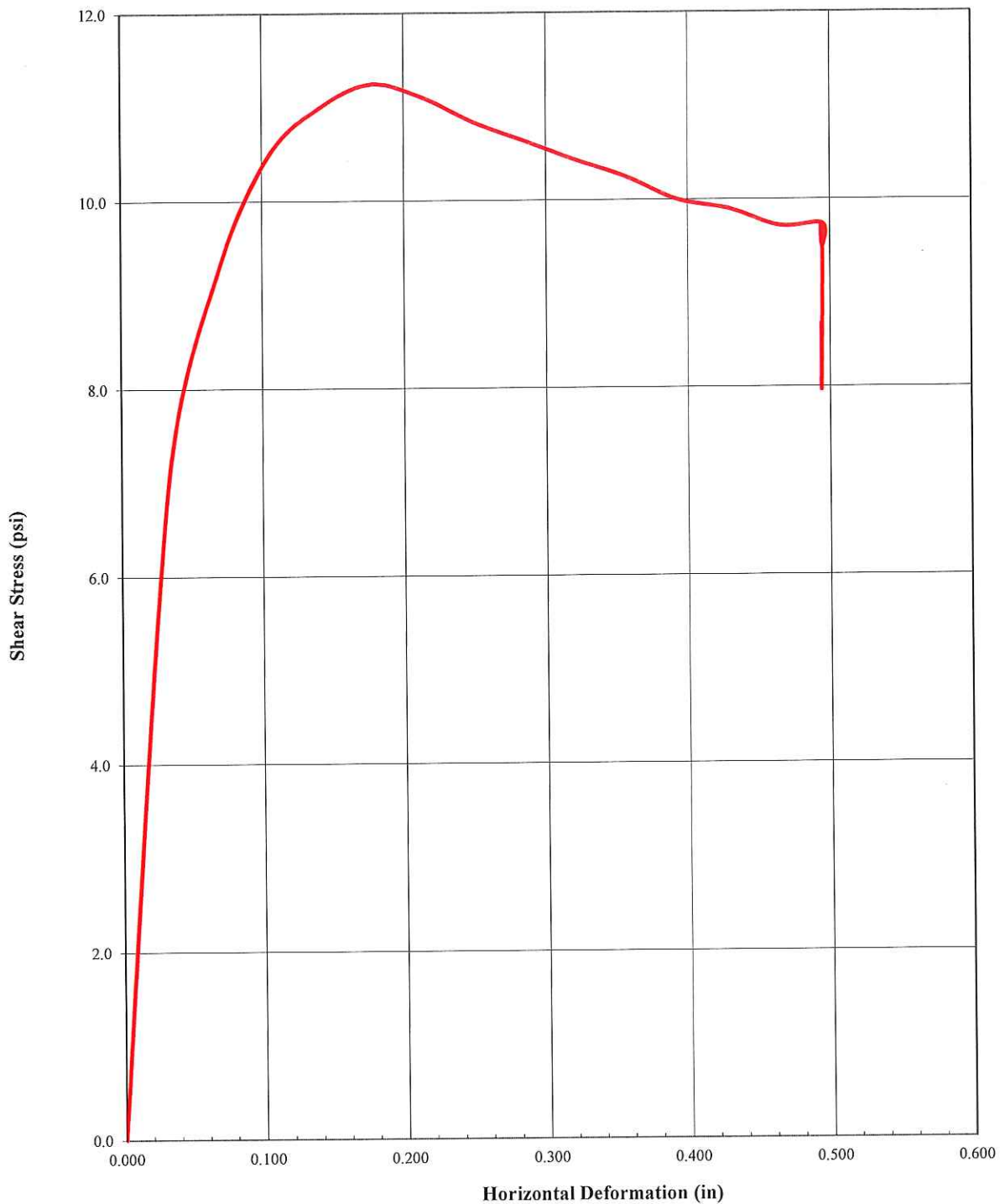
Date

Date

Tested By



Specimen C Stress-Deformation



Date

Checked By

Date

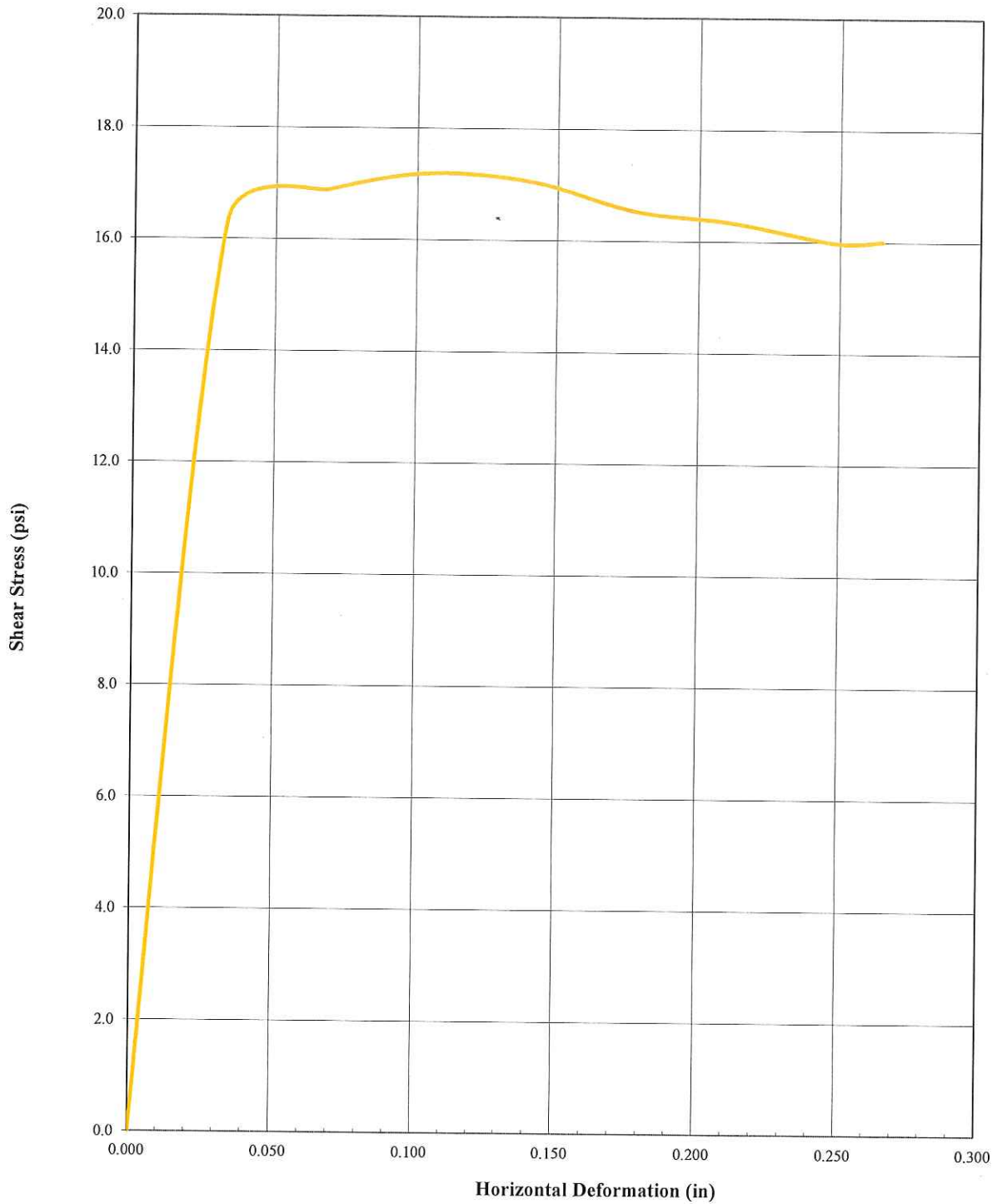
Date

Tested By

Your Company Name
Direct Shear Test



Specimen D Stress-Deformation



Date

Checked By

Date

Date

Tested By

Specimen Information
Direct Shear Test

Your Company Name

Project Information

Project: Testing
 Location: Bridge 5B
 Project Number: 5B
 Client: Bridge Builder Company X
 Sample Location: Bridge 5B
 Sample Number: 23
 Boring Number: 7

Tested By:
 Reduced By:
 Checked By:

Sample Description/Remarks	
Specimen A Description	Sand
Remarks	
Specimen B Description	Sand
Remarks	
Specimen C Description	Sand
Remarks	
Specimen D Description	Sand
Remarks	

Moisture Density Data

	Specimen A		Specimen B		Specimen C		Specimen D	
	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Height (in)	1.070	1.070	1.070	1.070	1.070	1.070	1.070	1.070
Diameter (in)	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Total Wet Weight of Ring & Soil (g)	1060.10	1060.10	1060.10	1060.10	1060.10	1060.10	1060.10	1060.10
Weight of Ring (g)	909.70	909.70	909.70	909.70	909.70	909.70	909.70	909.70
Wet Weight of Soil (g)	150.40	150.40	150.40	150.40	150.40	150.40	150.40	150.40
Wt of Wet Soil & Dish (g)	-	100.00	-	100.00	-	100.00	-	100.00
Wt of Dry Soil & Dish (g)	-	100.00	-	100.00	-	100.00	-	100.00
Wt. Of Dish (g)	-	0.00	-	0.00	-	0.00	-	0.00

Consolidation Calculations

	Specimen A	Specimen B	Specimen C	Specimen D
Initial Ref. Height (in)	0.000	0.000	0.000	0.000
Final Ref. Height (in)	0.000	0.000	0.000	0.000
Height after Consol (in)	1.070	1.070	1.070	1.070

Calculations

	Specimen A		Specimen B		Specimen C		Specimen D	
	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Specific Gravity	2.650	2.650	2.650	2.650	2.650	2.650	2.650	2.650
Area (in ²)	4.909	4.909	4.909	4.909	4.909	4.909	4.909	4.909
Volume (in ³)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Moisture Content (%)	11.765	0.000	50.400	0.000	50.400	0.000	50.400	0.000
Wet Density (pcf)	109.085	109.085	109.085	109.085	109.085	109.085	109.085	109.085
Dry Density (pcf)	97.602	109.085	72.530	109.085	72.530	109.085	72.530	109.085
Saturation (%)	44.861	0.000	100.000	0.000	100.000	0.000	100.000	0.000
Void Ratio	0.695	0.517	1.281	0.517	1.281	0.517	1.281	0.517
Porosity (%)	41.001	34.060	56.157	34.060	56.157	34.060	56.157	34.060

Specimen A Shear Data	Your Company Name
Direct Shear Test	

File Location
DS_test.HSD

Last Shear Pass

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	0.0	0.000	0.0000	0.000	0.0
1	00:03:00	21.1	0.034	0.0012	1.360	4.3
2	00:06:01	22.8	0.070	0.0036	2.800	4.6
3	00:09:01	22.0	0.106	0.0055	4.240	4.5
4	00:12:01	20.4	0.142	0.0054	5.680	4.2
5	00:15:01	19.9	0.178	0.0048	7.120	4.1
6	00:18:01	18.9	0.214	0.0040	8.560	3.9
7	00:21:01	18.8	0.250	0.0027	10.000	3.8
8	00:21:33	18.7	0.256	0.0024	10.240	3.8

Specimen B Shear Data	Your Company Name
Direct Shear Test	

File Location
DS_test.HSD

Last Shear Pass

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	0.0	0.000	0.0000	0.000	0.0
1	00:03:00	31.4	0.034	-0.0025	1.360	6.4
2	00:06:00	36.3	0.070	-0.0019	2.800	7.4
3	00:09:00	37.7	0.106	-0.0008	4.240	7.7
4	00:12:00	37.7	0.142	0.0000	5.680	7.7
5	00:15:01	36.6	0.178	0.0002	7.120	7.5
6	00:18:01	34.8	0.214	0.0000	8.560	7.1
7	00:21:01	33.4	0.250	-0.0010	10.000	6.8
8	00:24:01	31.6	0.286	-0.0032	11.440	6.4
9	00:27:01	31.8	0.322	-0.0049	12.880	6.5
10	00:28:14	31.6	0.336	-0.0057	13.440	6.4

Specimen C Shear Data	Your Company Name
Direct Shear Test	

File Location
DS_test.HSD

Last Shear Pass

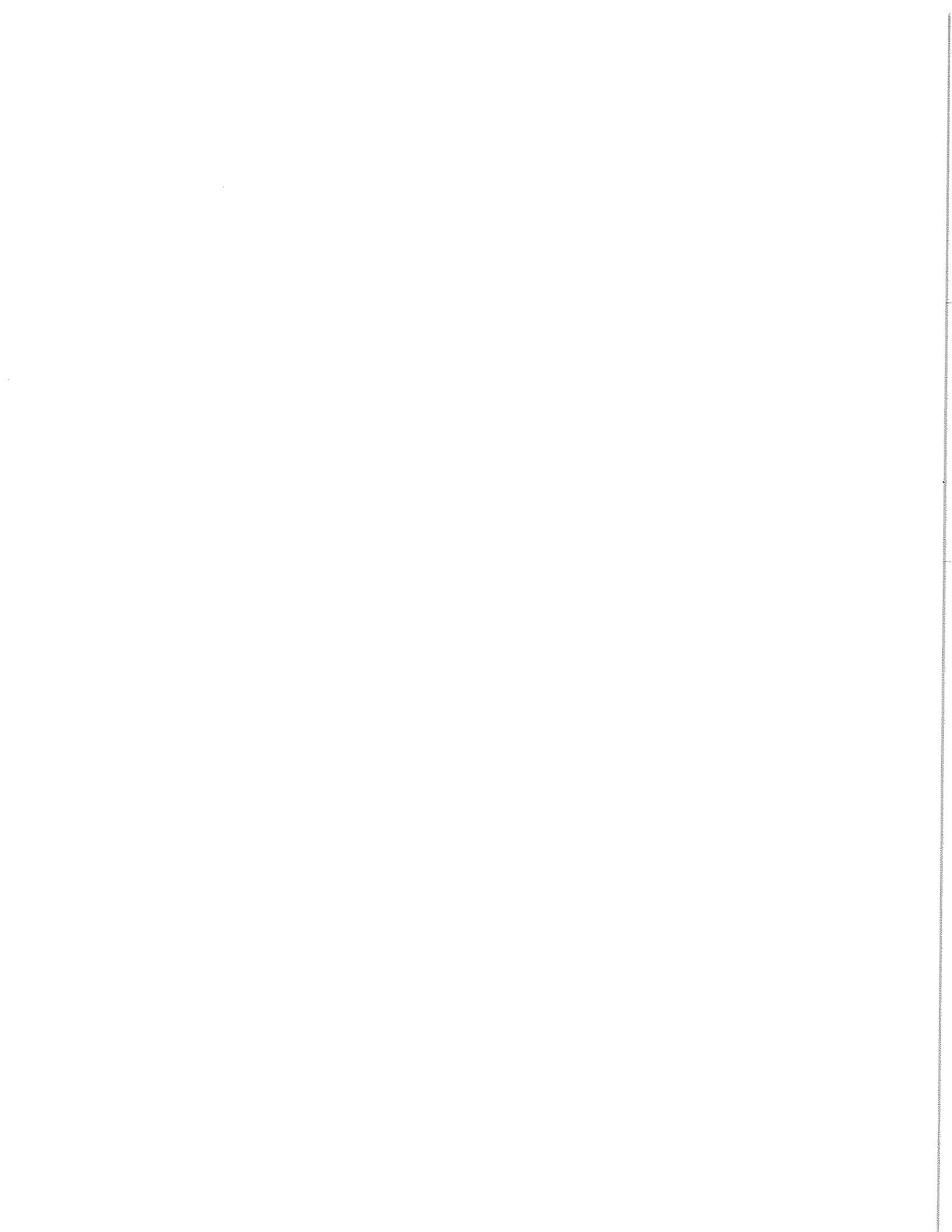
Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	0.0	0.000	0.0000	0.000	0.0
1	00:03:01	34.7	0.034	-0.0083	1.360	7.1
2	00:06:01	45.4	0.069	-0.0115	2.760	9.2
3	00:09:01	51.5	0.105	-0.0128	4.200	10.5
4	00:12:01	54.0	0.141	-0.0129	5.640	11.0
5	00:15:01	55.2	0.177	-0.0129	7.080	11.2
6	00:18:01	54.5	0.213	-0.0129	8.520	11.1
7	00:21:02	53.2	0.249	-0.0132	9.960	10.8
8	00:24:02	52.2	0.285	-0.0144	11.400	10.6
9	00:27:02	51.2	0.321	-0.0156	12.840	10.4
10	00:30:02	50.3	0.357	-0.0169	14.280	10.2
11	00:33:02	49.1	0.393	-0.0185	15.720	10.0
12	00:36:02	48.6	0.429	-0.0203	17.160	9.9
13	00:39:02	47.7	0.465	-0.0223	18.600	9.7
14	00:42:03	47.8	0.495	-0.0242	19.800	9.7
15	00:45:03	46.6	0.495	-0.0262	19.800	9.5
16	00:48:03	47.0	0.494	-0.0285	19.760	9.6
17	00:51:03	47.8	0.494	-0.0307	19.760	9.7
18	00:54:03	46.2	0.495	-0.0331	19.800	9.4
19	00:57:03	39.2	0.494	-0.0439	19.760	8.0
20	00:58:49	42.6	0.494	-0.0787	19.760	8.7

Specimen D Shear Data	Your Company Name
Direct Shear Test	

File Location
DS_test.HSD

Last Shear Pass

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	1.8	0.000	0.0000	0.000	0.0
1	00:03:00	82.0	0.033	-0.0005	1.320	16.3
2	00:06:00	84.7	0.068	-0.0002	2.720	16.9
3	00:09:00	86.2	0.104	-0.0003	4.160	17.2
4	00:12:00	85.5	0.141	-0.0011	5.640	17.1
5	00:15:00	83.0	0.177	-0.0023	7.080	16.5
6	00:18:00	82.0	0.212	-0.0038	8.480	16.3
7	00:21:01	80.3	0.248	-0.0056	9.920	16.0
8	00:22:26	80.4	0.265	-0.0067	10.600	16.0



Specimen A Consolidation

Your Company Name

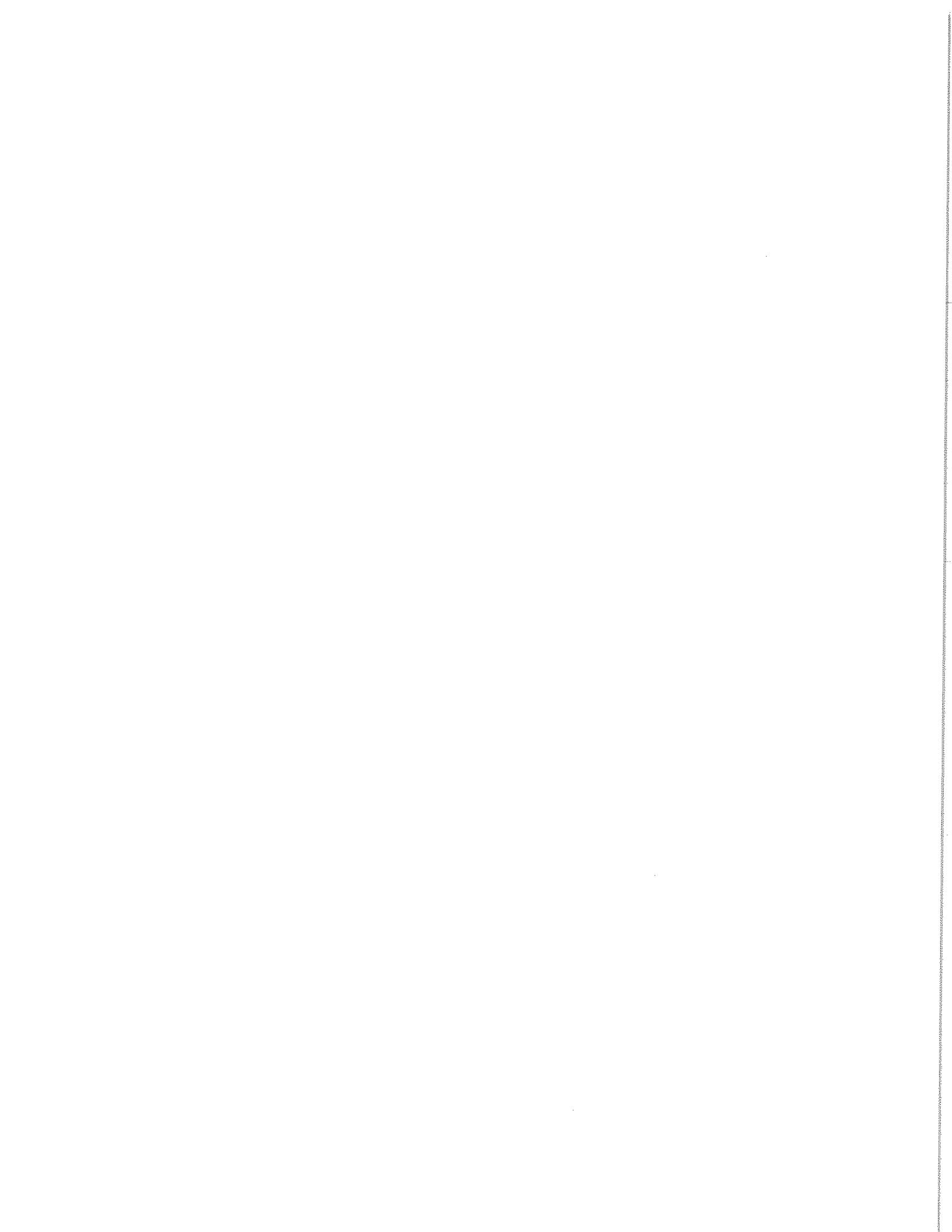
Direct Shear Test

File Location

DS_test.HSD

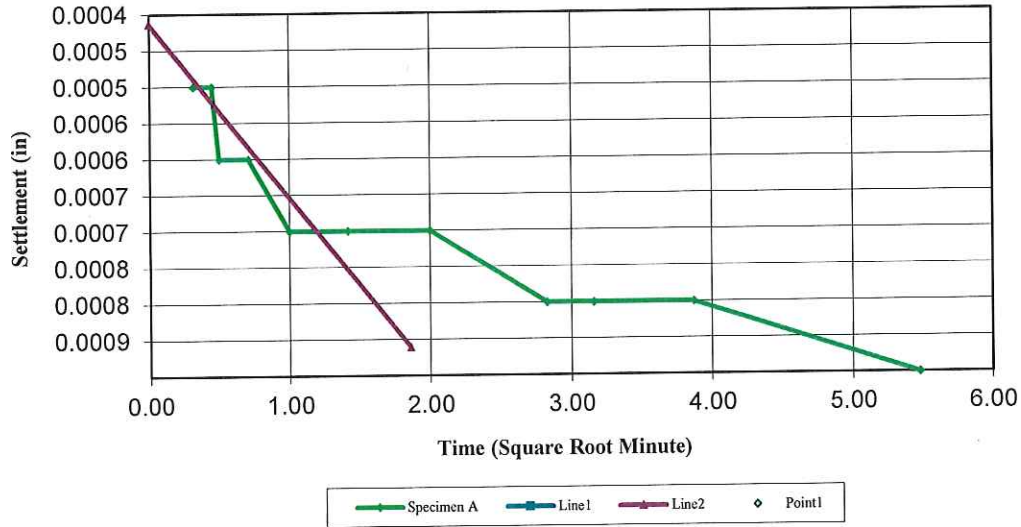
Last Consolidation Sequence

Reading Number	Time	Disp. (in)	Settlement (in)	Void Ratio
0.0	00:00:00	0.0001	0.0000	0.6950
1.0	00:00:06	0.0005	0.0003	0.6925
2.0	00:00:12	0.0005	0.0003	0.6925
3.0	00:00:15	0.0006	0.0004	0.6924
4.0	00:00:30	0.0006	0.0004	0.6924
5.0	00:01:00	0.0007	0.0005	0.6922
6.0	00:02:00	0.0007	0.0005	0.6922
7.0	00:04:00	0.0007	0.0005	0.6922
8.0	00:08:00	0.0008	0.0006	0.6920
9.0	00:10:00	0.0008	0.0006	0.6920
10.0	00:15:00	0.0008	0.0006	0.6920
11.0	00:30:00	0.0009	0.0007	0.6919



Specimen A Consolidation Graphs

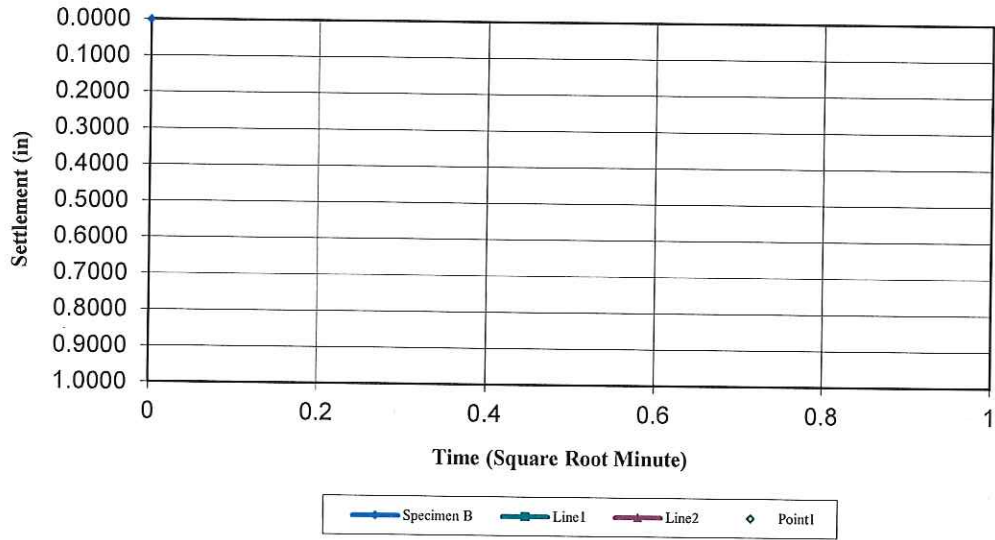
Consolidation Graph (Square Root Time)



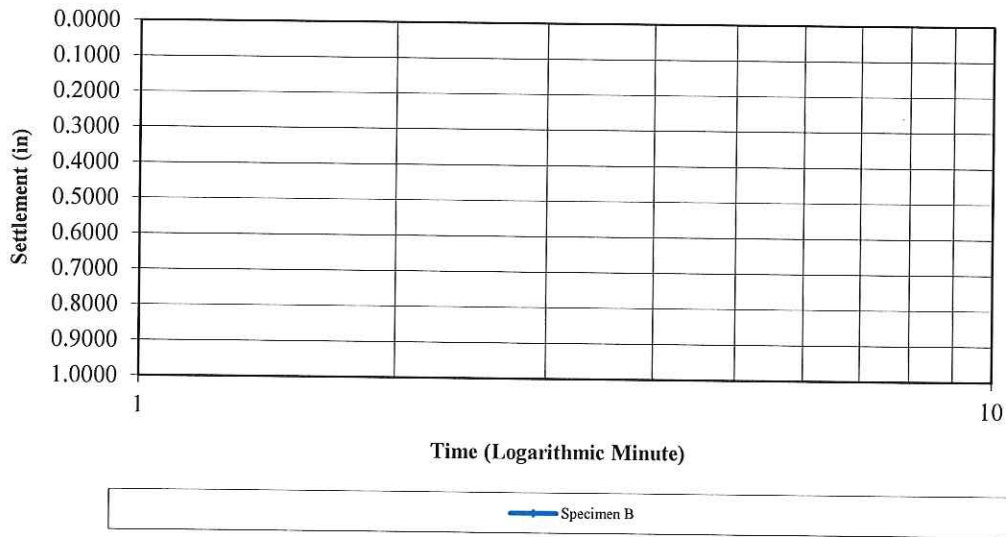
Consolidation Graph (Logarithmic Time)



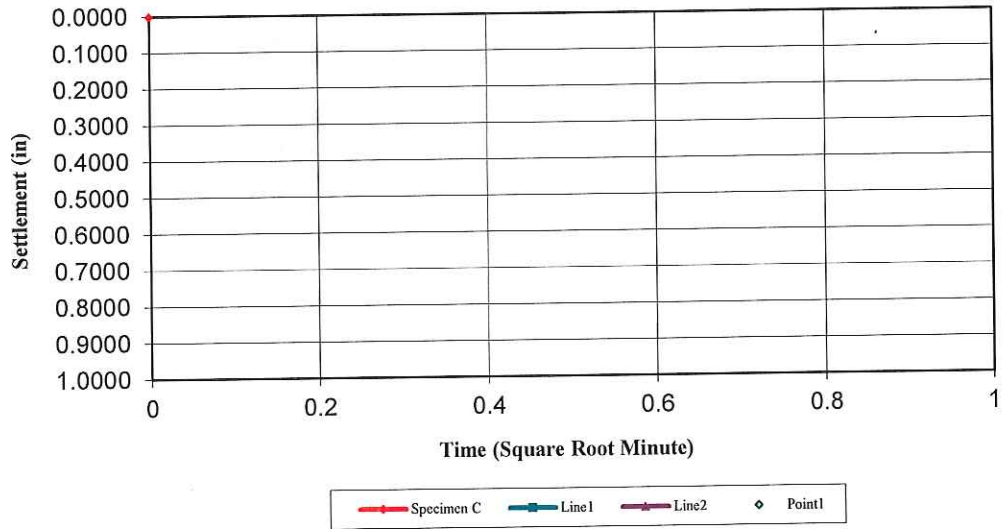
Consolidation Graph (Square Root Time)



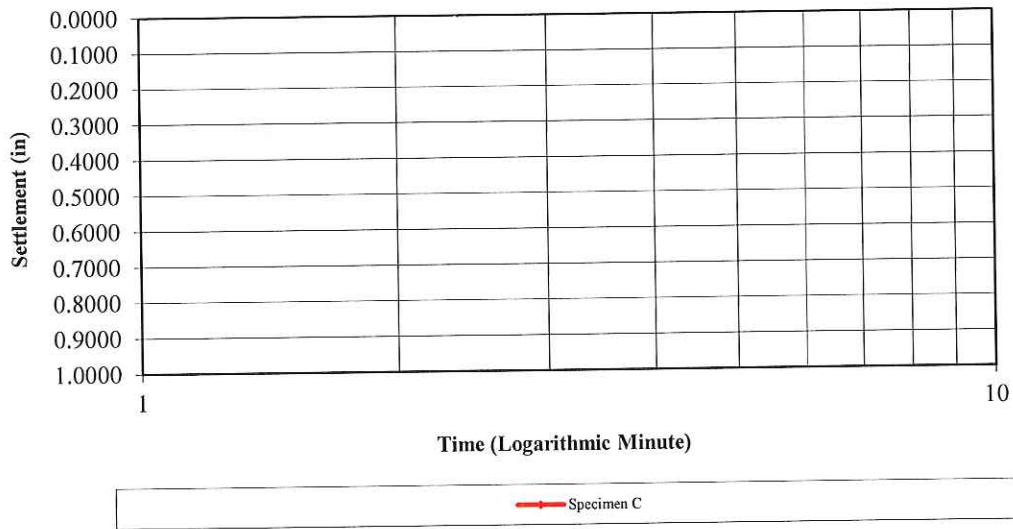
Consolidation Graph (Logarithmic Time)



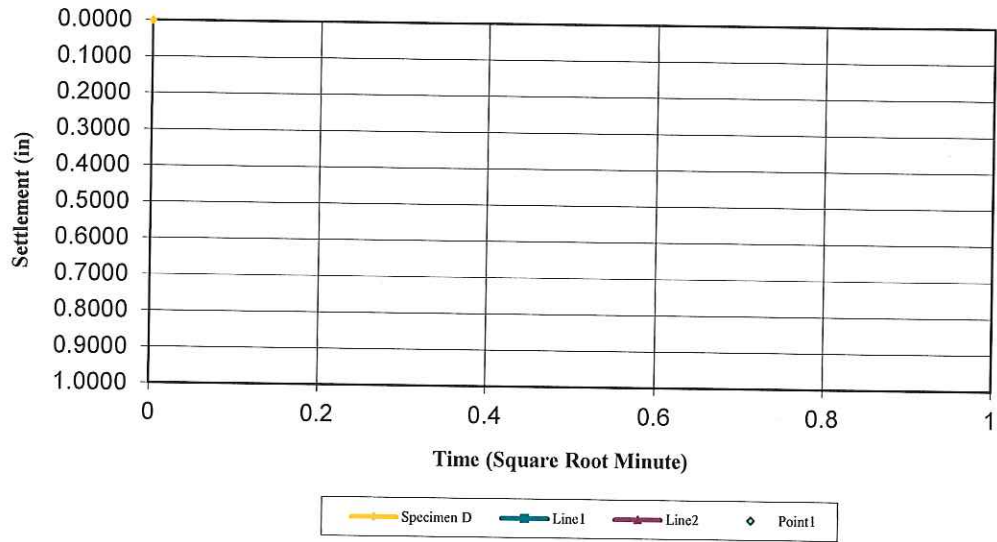
Consolidation Graph (Square Root Time)



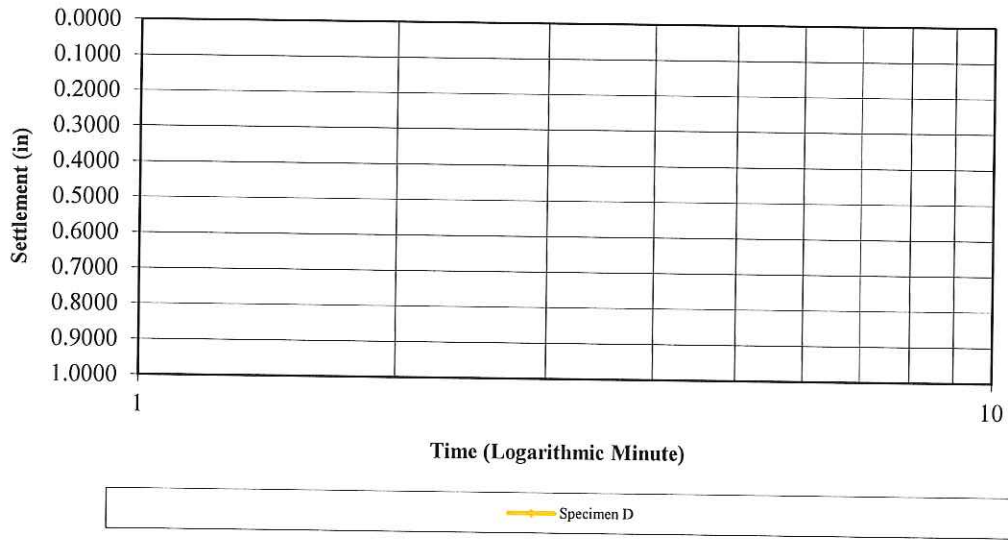
Consolidation Graph (Logarithmic Time)



Consolidation Graph (Square Root Time)



Consolidation Graph (Logarithmic Time)



Specimen A All Shear Pass Data	Your Company Name
Direct Shear Test	

File Location
DS_test.HSD

PASS 1

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	1.8	0.506	0.3594	0.0	0.000	0.0000	0.000	0.000
1	00:03:00	22.9	0.472	0.3606	21.1	0.034	0.0012	1.360	4.298
2	00:06:01	24.6	0.436	0.3630	22.8	0.070	0.0036	2.800	4.645
3	00:09:01	23.8	0.400	0.3649	22.0	0.106	0.0055	4.240	4.482
4	00:12:01	22.2	0.364	0.3648	20.4	0.142	0.0054	5.680	4.156
5	00:15:01	21.7	0.328	0.3642	19.9	0.178	0.0048	7.120	4.054
6	00:18:01	20.7	0.292	0.3634	18.9	0.214	0.0040	8.560	3.850
7	00:21:01	20.6	0.256	0.3621	18.8	0.250	0.0027	10.000	3.830
8	00:21:33	20.5	0.250	0.3618	18.7	0.256	0.0024	10.240	3.810

Specimen B All Shear Pass Data

Your Company Name

Direct Shear Test

File Location

DS_test.HSD

PASS 1

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	1.6	0.498	0.3345	0.0	0.000	0.0000	0.000	0.000
1	00:03:00	33.0	0.464	0.3320	31.4	0.034	-0.0025	1.360	6.397
2	00:06:00	37.9	0.428	0.3326	36.3	0.070	-0.0019	2.800	7.395
3	00:09:00	39.3	0.392	0.3337	37.7	0.106	-0.0008	4.240	7.680
4	00:12:00	39.3	0.356	0.3345	37.7	0.142	0.0000	5.680	7.680
5	00:15:01	38.2	0.320	0.3347	36.6	0.178	0.0002	7.120	7.456
6	00:18:01	36.4	0.284	0.3345	34.8	0.214	0.0000	8.560	7.089
7	00:21:01	35.0	0.248	0.3335	33.4	0.250	-0.0010	10.000	6.804
8	00:24:01	33.2	0.212	0.3313	31.6	0.286	-0.0032	11.440	6.437
9	00:27:01	33.4	0.176	0.3296	31.8	0.322	-0.0049	12.880	6.478
10	00:28:14	33.2	0.162	0.3288	31.6	0.336	-0.0057	13.440	6.437

Specimen C All Shear Pass Data

Your Company Name

Direct Shear Test

File Location

DS_test.HSD

PASS 1

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	1.7	0.494	0.3187	0.0	0.000	0.0000	0.000	0.000
1	00:03:01	36.4	0.460	0.3104	34.7	0.034	-0.0083	1.360	7.069
2	00:06:01	47.1	0.425	0.3072	45.4	0.069	-0.0115	2.760	9.249
3	00:09:01	53.2	0.389	0.3059	51.5	0.105	-0.0128	4.200	10.491
4	00:12:01	55.7	0.353	0.3058	54.0	0.141	-0.0129	5.640	11.001
5	00:15:01	56.9	0.317	0.3058	55.2	0.177	-0.0129	7.080	11.245
6	00:18:01	56.2	0.281	0.3058	54.5	0.213	-0.0129	8.520	11.103
7	00:21:02	54.9	0.245	0.3055	53.2	0.249	-0.0132	9.960	10.838
8	00:24:02	53.9	0.209	0.3043	52.2	0.285	-0.0144	11.400	10.634
9	00:27:02	52.9	0.173	0.3031	51.2	0.321	-0.0156	12.840	10.430
10	00:30:02	52.0	0.137	0.3018	50.3	0.357	-0.0169	14.280	10.247
11	00:33:02	50.8	0.101	0.3002	49.1	0.393	-0.0185	15.720	10.003
12	00:36:02	50.3	0.065	0.2984	48.6	0.429	-0.0203	17.160	9.901
13	00:39:02	49.4	0.029	0.2964	47.7	0.465	-0.0223	18.600	9.717
14	00:42:03	49.5	-0.001	0.2945	47.8	0.495	-0.0242	19.800	9.738
15	00:45:03	48.3	-0.001	0.2925	46.6	0.495	-0.0262	19.800	9.493
16	00:48:03	48.7	0.000	0.2902	47.0	0.494	-0.0285	19.760	9.575
17	00:51:03	49.5	0.000	0.2880	47.8	0.494	-0.0307	19.760	9.738
18	00:54:03	47.9	-0.001	0.2856	46.2	0.495	-0.0331	19.800	9.412
19	00:57:03	40.9	0.000	0.2748	39.2	0.494	-0.0439	19.760	7.986
20	00:58:49	44.3	0.000	0.2400	42.6	0.494	-0.0787	19.760	8.678

Specimen D All Shear Pass Data

Your Company Name

Direct Shear Test

File Location

DS_test.HSD

PASS 1

Reading Number	Time	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Shear Force (lbs)	Horizontal Deformation (in)	Vertical Deformation (in)	Axial Strain (%)	Stress (psi)
0	00:00:00	1.8	0.498	0.1338	0.0	0.000	0.0000	0.000	0.000
1	00:03:00	82.0	0.465	0.1333	80.2	0.033	-0.0005	1.320	16.338
2	00:06:00	84.7	0.430	0.1336	82.9	0.068	-0.0002	2.720	16.888
3	00:09:00	86.2	0.394	0.1335	84.4	0.104	-0.0003	4.160	17.194
4	00:12:00	85.5	0.357	0.1327	83.7	0.141	-0.0011	5.640	17.051
5	00:15:00	83.0	0.321	0.1315	81.2	0.177	-0.0023	7.080	16.542
6	00:18:00	82.0	0.286	0.1300	80.2	0.212	-0.0038	8.480	16.338
7	00:21:01	80.3	0.250	0.1282	78.5	0.248	-0.0056	9.920	15.992
8	00:22:26	80.4	0.233	0.1271	78.6	0.265	-0.0067	10.600	16.012