

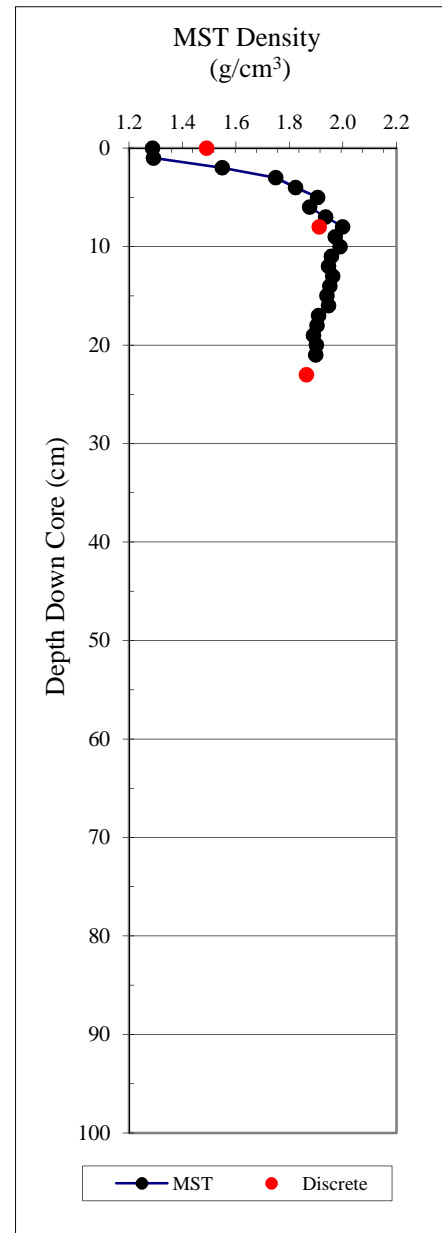
Cruise No: 2004801

Station: 3

Sample Type: Push Core A

Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	1.29		
1	1.29	0.039	0.04
2	1.55	0.050	0.09
3	1.75	0.068	0.16
4	1.82	0.079	0.24
5	1.91	0.084	0.32
6	1.88	0.086	0.41
7	1.94	0.089	0.49
8	2.00	0.093	0.59
9	1.97	0.094	0.68
10	1.99	0.093	0.78
11	1.96	0.092	0.87
12	1.95	0.091	0.96
13	1.96	0.091	1.05
14	1.95	0.091	1.14
15	1.94	0.090	1.23
16	1.95	0.089	1.32
17	1.91	0.088	1.41
18	1.90	0.086	1.49
19	1.89	0.086	1.58
20	1.90	0.086	1.67
21	1.90	0.075	1.74
22	1.44	0.009	1.75
23	-0.33	-0.023	1.73



Cruise No: 2004801

Station: 3

Sample Type: Push Core A

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
8	1.91	1.43	47.02	2.70	0.89	25.19	33.68
** 23	1.86	1.34	51.61	2.76	1.07	28.36	39.58
averages	1.86	1.34	51.61	2.76	1.07	28.36	39.58

dirt on rim, sediment on lid

mold on sample

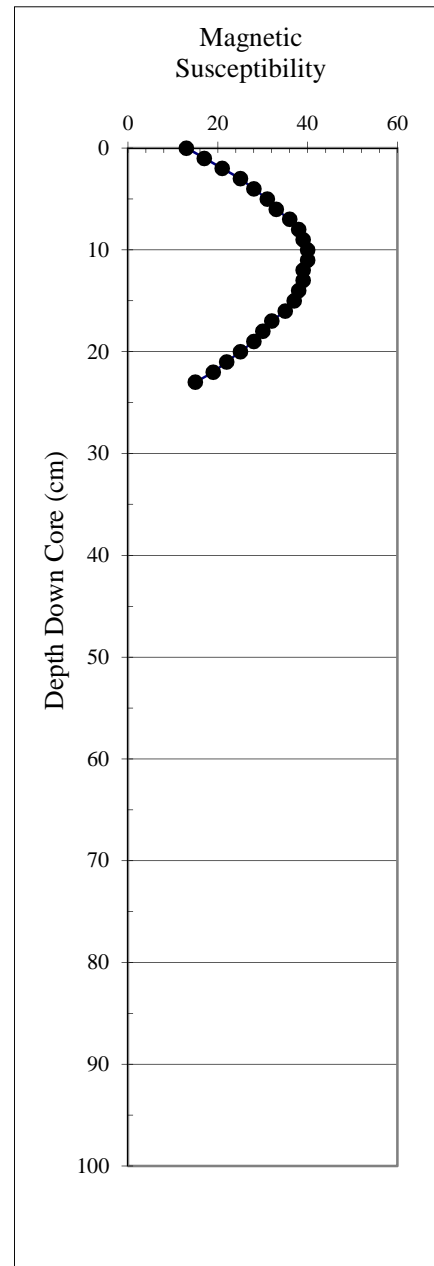
Cruise No: 2004801

Station: 3

Sample Type: Push Core A

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	13
1	17
2	21
3	25
4	28
5	31
6	33
7	36
8	38
9	39
10	40
11	40
12	39
13	39
14	38
15	37
16	35
17	32
18	30
19	28
20	25
21	22
22	19
23	15



Cruise No: 2004801

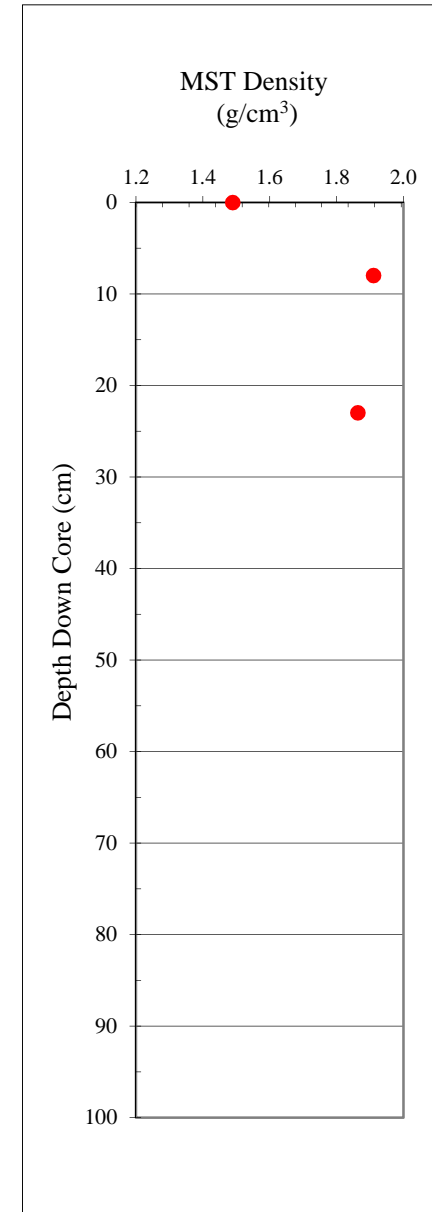
Station: 3

Sample Type: ***Push Core A***

Data Type: Discrete Laboratory Measurements

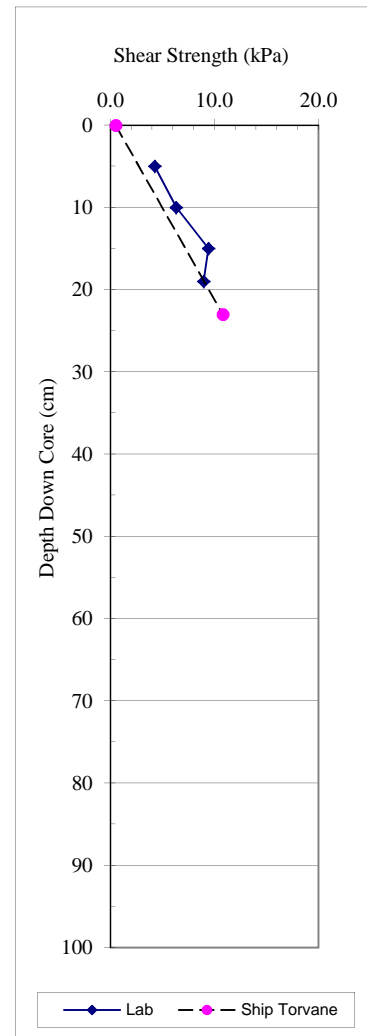
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.49	0.77	70.16	2.58	2.35	48.23	93.16	dirt on rim, sediment on lid
8	1.91	1.43	47.02	2.70	0.89	25.19	33.68	
** 23	1.86	1.34	51.61	2.76	1.07	28.36	39.58	mold on sample
averages	1.86	1.34	51.61	2.76	1.07	28.36	39.58	



Cruise No: 2004801
 Station: 3
 Sample Type: Push Core A
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
5	4.24	1.7	2.50
10	6.33		
15	9.41	5.36	1.76
19	8.95		
average	7.23		



Cruise No: 2004801
 Station: 3
 Sample Type: Push Core A
 Data Type: Shipboard Torvane

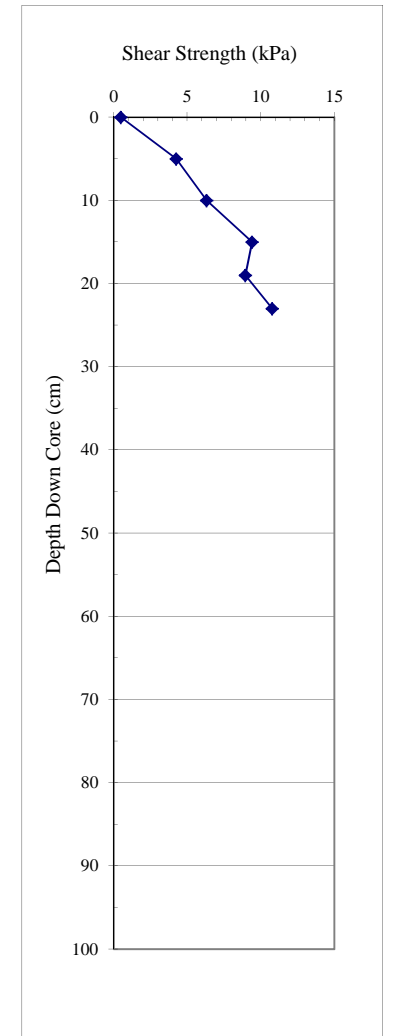
<u>Undrained</u>		
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>	
0	0.49	2.5Y 3/3
23	10.79	Grey1 2.5/10y

Cruise No: 2004801
 Station: 3
 Sample Type: Push Core A
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.49	NA	
5	4.24	1.7	2.50
10	6.33		
15	9.41	5.36	
19	8.95		
23	10.79		
average	6.7		



Cruise No: 2004801

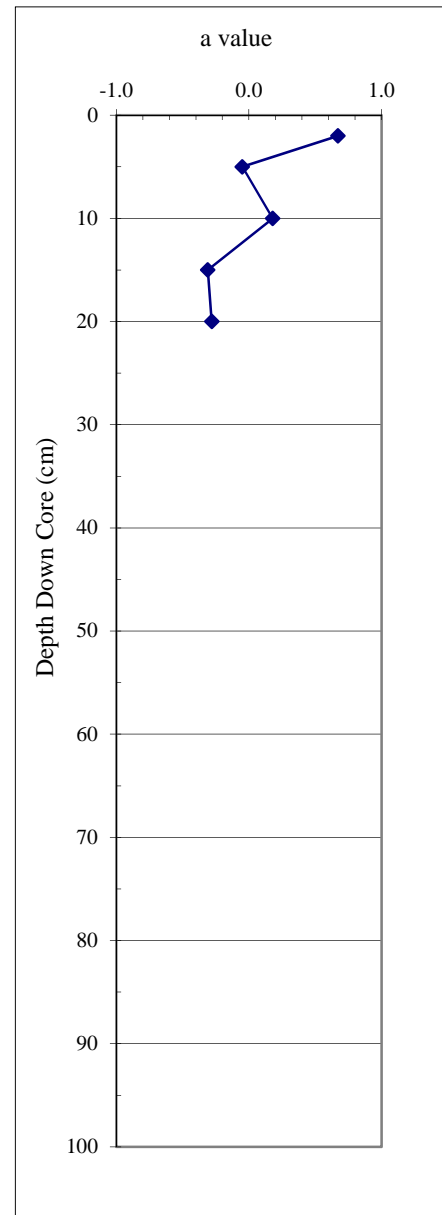
Station: 3

Sample Type: Push Core A

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	0.67	37.59	3.8
5	-0.05	41.13	0.71
10	0.18	31.98	1.49
15	-0.31	30.16	0.24
20	-0.28	33.36	0.32

average: **0.04**



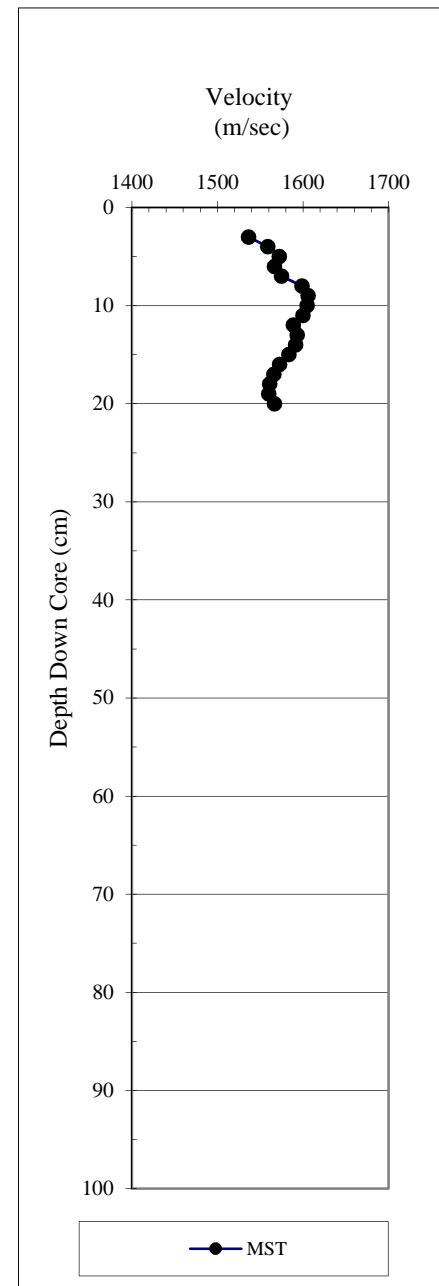
Cruise No: 2004801

Station: 3

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1536.35
4	1558.9
5	1572.29
6	1566.55
7	1575.09
8	1598.76
9	1606.11
10	1604.75
11	1599.81
12	1588.91
13	1593.1
14	1591.57
15	1583.52
16	1572.64
17	1566.13
18	1561.05
19	1560.07
20	1566.85
21	#N/A
22	#N/A
23	#N/A



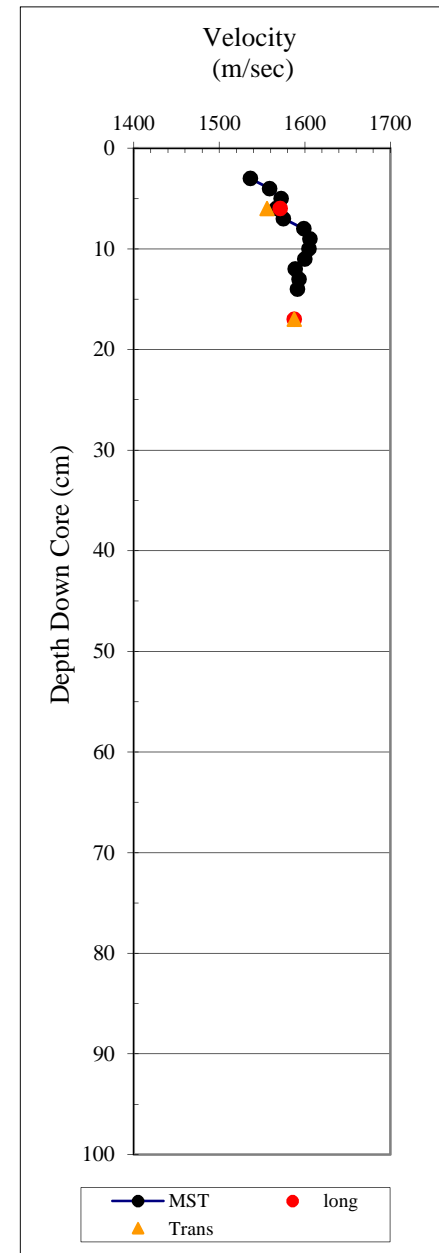
Cruise No: 2004801

Station: 3

Sample Type: Push Core A

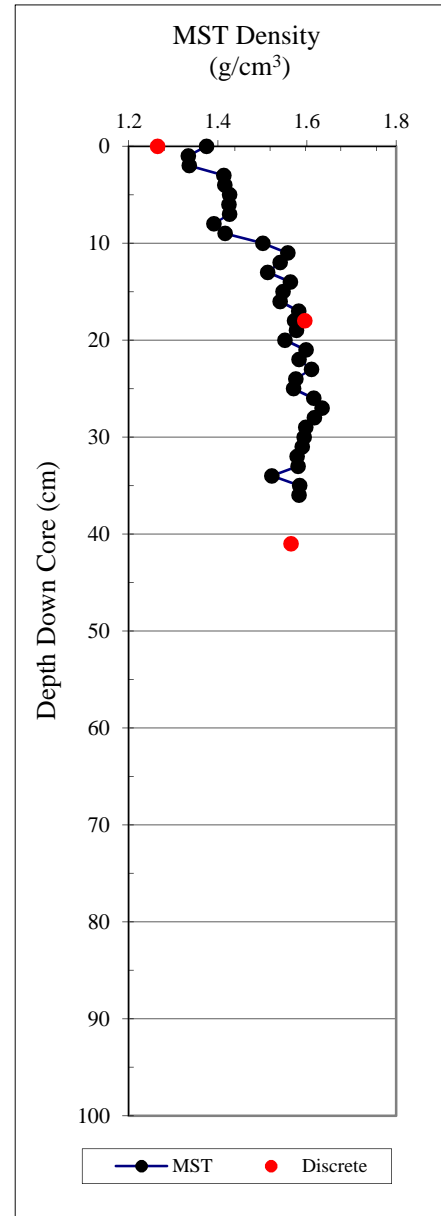
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1536.35		
4	1558.9		
5	1572.29		
6	1566.55	1571.22	1555.72
7	1575.09		
8	1598.76		
9	1606.11		
10	1604.75		
11	1599.81		
12	1588.91		
13	1593.1		
14	1591.57		
15	1583.52		
16	1572.64		
17	1566.13	1587.77	1587.48
18	1561.05		
19	1560.07		
20	1566.85		
21	#N/A		
22	#N/A		
23	#N/A		



Cruise No: 2004801
 Station: Z
 Sample Type: Push Core A
 Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure (kPa)</u>	Total
0	1.38		
1	1.33	0.046	0.05
2	1.34	0.032	0.08
3	1.41	0.036	0.11
4	1.42	0.039	0.15
5	1.43	0.039	0.19
6	1.43	0.039	0.23
7	1.43	0.039	0.27
8	1.39	0.038	0.31
9	1.42	0.040	0.35
10	1.50	0.046	0.39
11	1.56	0.050	0.44
12	1.54	0.050	0.49
13	1.51	0.050	0.54
14	1.56	0.051	0.60
15	1.55	0.051	0.65
16	1.54	0.052	0.70
17	1.58	0.053	0.75
18	1.57	0.054	0.81
19	1.58	0.053	0.86
20	1.55	0.053	0.91
21	1.60	0.055	0.97
22	1.58	0.056	1.02
23	1.61	0.056	1.08
24	1.58	0.055	1.13
25	1.57	0.055	1.19
26	1.62	0.057	1.25
27	1.63	0.059	1.31
28	1.62	0.058	1.36
29	1.60	0.057	1.42
30	1.59	0.056	1.48
31	1.59	0.055	1.53
32	1.58	0.055	1.59
33	1.58	0.053	1.64
34	1.52	0.052	1.69
35	1.58	0.053	1.74
36	1.58	0.034	1.78
37	0.75	-0.018	1.76
38	0.28	-0.025	1.74



Cruise No: 2004801
 Station: Z
 Sample Type: Push Core A
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
								** 0
18	1.60	0.91	67.16	2.76	2.05	43.11	75.77	
** 41	1.56	0.87	67.71	2.70	2.10	44.32	79.59	
averages	1.56	0.87	67.71	2.70	2.10	44.32	79.59	

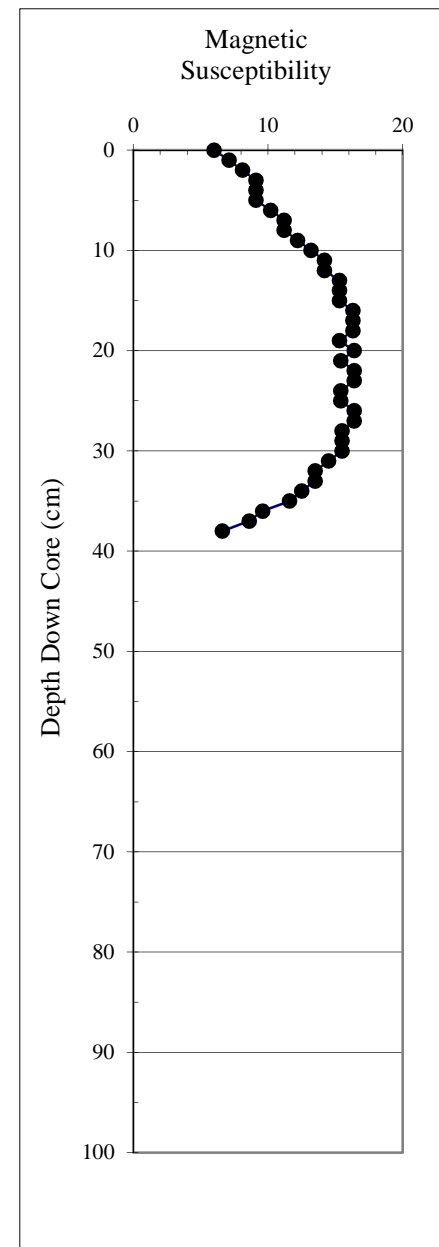
Cruise No: 2004801

Station: Z

Sample Type: Push Core A

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	6
1	7.1
2	8.1
3	9.1
4	9.1
5	9.1
6	10.2
7	11.2
8	11.2
9	12.2
10	13.2
11	14.2
12	14.2
13	15.3
14	15.3
15	15.3
16	16.3
17	16.3
18	16.3
19	15.3
20	16.4
21	15.4
22	16.4
23	16.4
24	15.4
25	15.4
26	16.4
27	16.4
28	15.5
29	15.5
30	15.5
31	14.5
32	13.5
33	13.5
34	12.5
35	11.6
36	9.6
37	8.6
38	6.6



Cruise No: 2004801

Station: Z

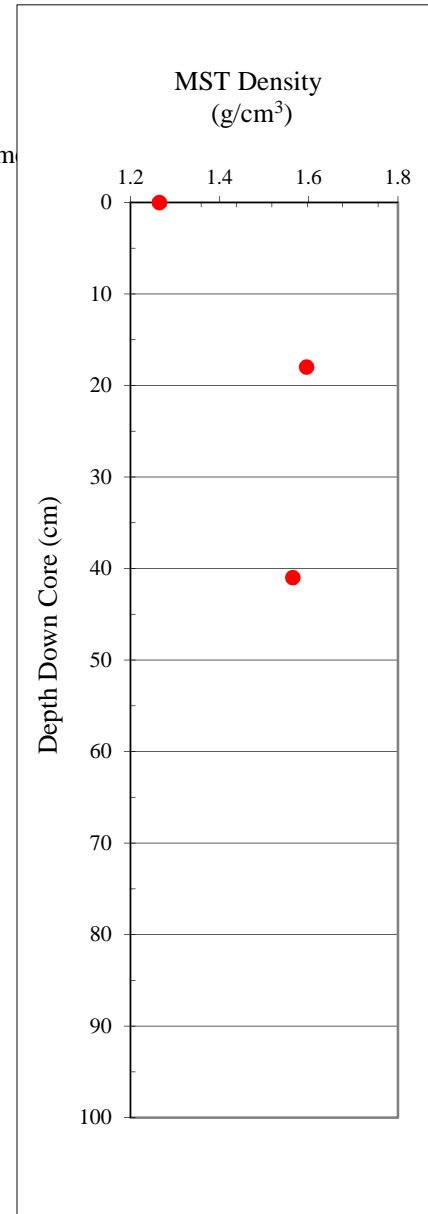
Sample Type: **Push Core A**

Data Type: Discrete Laboratory Measurements

** Shipboard

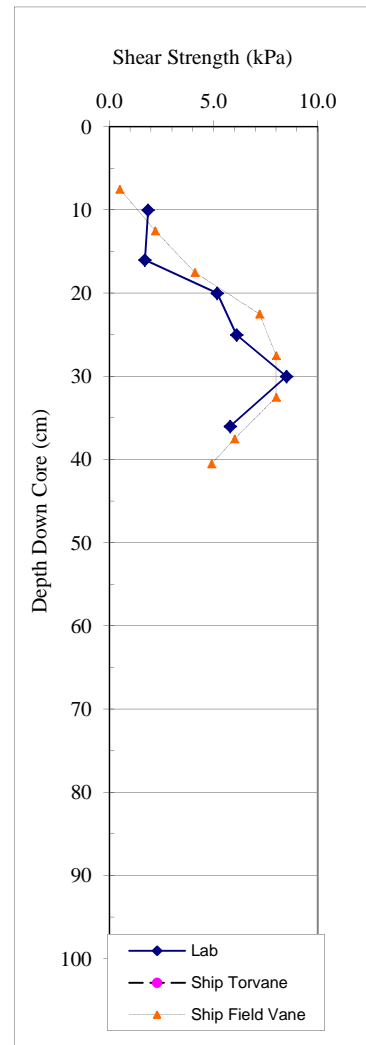
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.27	0.49	75.97	2.03	3.16	61.49	159.68
18	1.60	0.91	67.16	2.76	2.05	43.11	75.77
** 41	1.56	0.87	67.71	2.70	2.10	44.32	79.59
averages	1.56	0.87	67.71	2.70	2.10	44.32	79.59

sedim



Cruise No: 2004801
 Station: Z
 Sample Type: Push Core A
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	(kPa)	(kPa)	
10	1.85	1.70	1.09
16	1.70		
20	5.17	1.93	2.68
25	6.10		
30	8.49		
36	5.79	4.48	1.29
average	4.85		



Cruise No: 2004801
 Station: Z
 Sample Type: Push Core A
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0.0	0.49
40.5	4.90

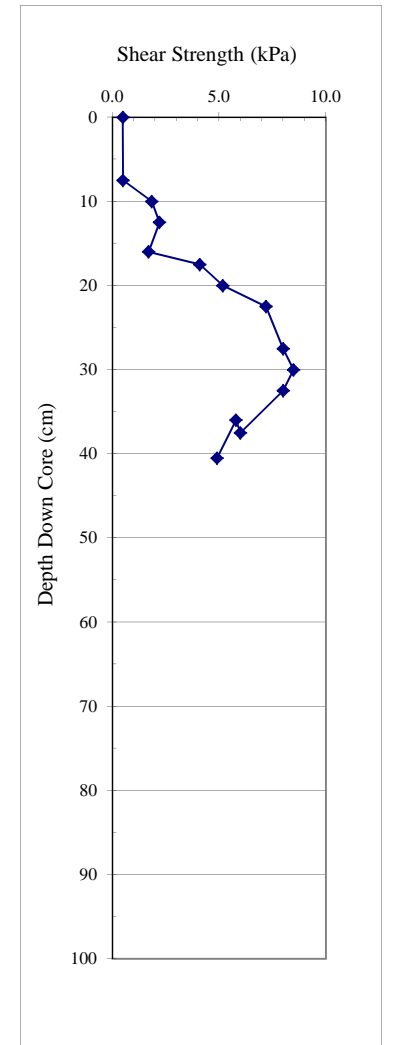
Cruise No: 2004801
 Station: Z
 Sample Type: Push Core A
 Data Type: Shipboard Field HandVane
 33mm vane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	(kPa)
7.5	0.5
12.5	2.2
17.5	4.1
22.5	7.2
27.5	8.0
32.5	8.0
37.5	6.0
40.5	4.90

Paktoa

Composite

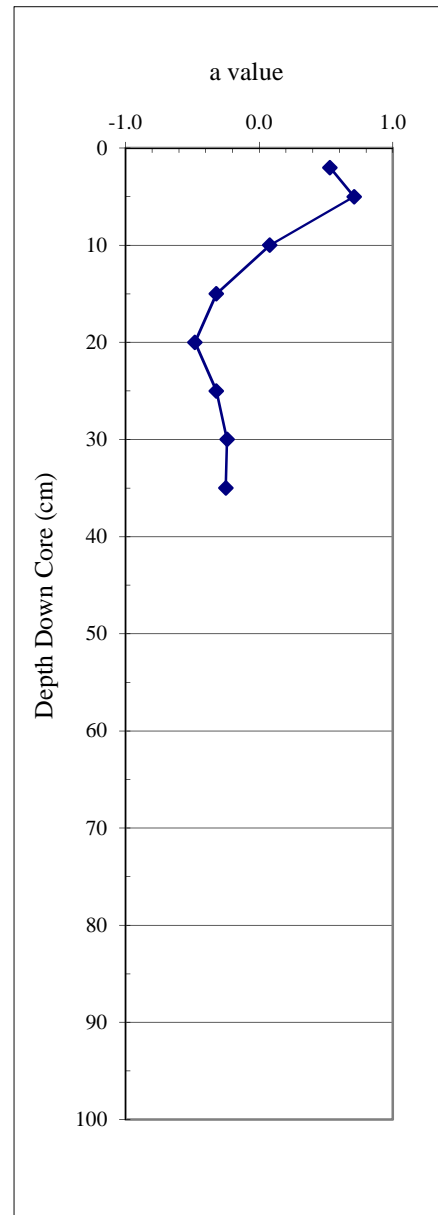
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	(kPa)	(kPa)	
0.0	0.49		
7.5	0.5		
10	1.85	1.70	1.09
12.5	2.2		
16	1.70		
17.5	4.1		
20	5.17	1.93	2.68
22.5	7.2		
27.5	8.0		
30	8.49		
32.5	8.0		
37.5	6.0		
36	5.79	4.48	1.29
40.5	4.90		
average	4.60		



Cruise No: 2004801
Station: Z
Sample Type: Push Core A
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>L value</u>	<u>b value</u>
2	0.53	35.99	4.4
5	0.71	37	4.91
10	0.08	33.23	2.59
15	-0.32	31.66	1.61
20	-0.48	36.88	0.63
25	-0.32	33.08	1.65
30	-0.24	33.77	1.75
35	-0.25	33.65	1.22

average: **-0.04**



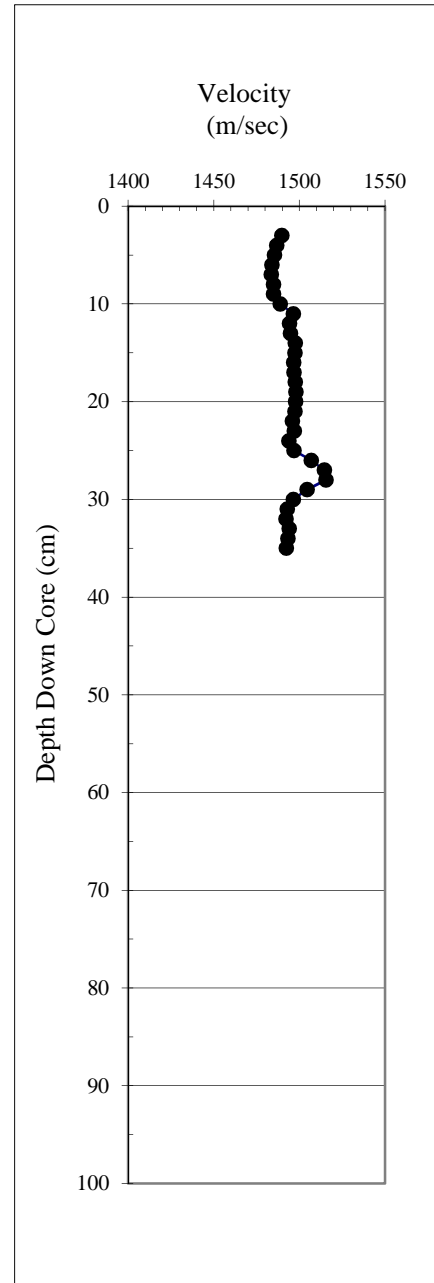
Cruise No: 2004801

Station: Z

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1489.86
4	1486.79
5	1485.41
6	1483.93
7	1483.64
8	1484.97
9	1484.86
10	1488.8
11	1496.49
12	1494.34
13	1494.83
14	1497.58
15	1497.45
16	1496.75
17	1496.91
18	1497.59
19	1498.01
20	1497.79
21	1497.44
22	1495.93
23	1497.01
24	1493.8
25	1496.82
26	1506.9
27	1514.63
28	1515.58
29	1504.46
30	1496.46
31	1492.89
32	1492.16
33	1494.04
34	1493.4
35	1492.36
36	#N/A
37	#N/A
38	#N/A



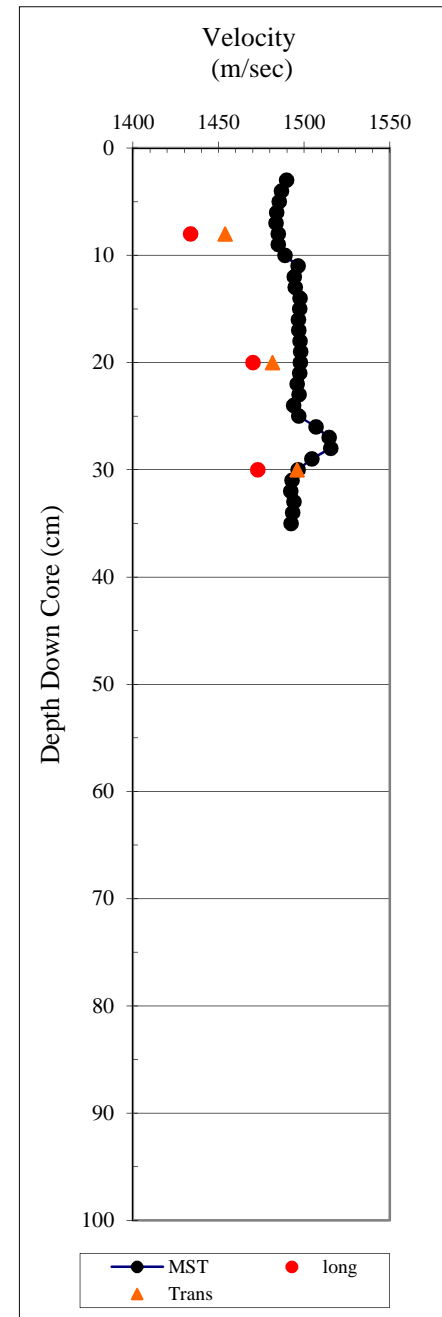
Cruise No: 2004801

Station: Z

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

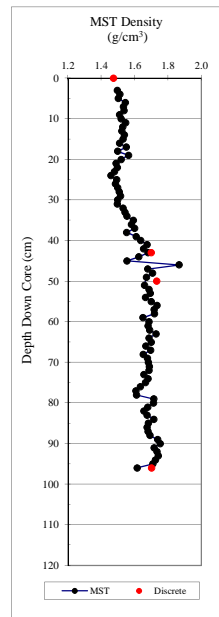
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1489.86		
4	1486.79		
5	1485.41		
6	1483.93		
7	1483.64		
8	1484.97	1433.7	1453.92
9	1484.86		
10	1488.8		
11	1496.49		
12	1494.34		
13	1494.83		
14	1497.58		
15	1497.45		
16	1496.75		
17	1496.91		
18	1497.59		
19	1498.01		
20	1497.79	1470.06	1481.62
21	1497.44		
22	1495.93		
23	1497.01		
24	1493.8		
25	1496.82		
26	1506.9		
27	1514.63		
28	1515.58		
29	1504.46		
30	1496.46	1472.93	1495.87
31	1492.89		
32	1492.16		
33	1494.04		
34	1493.4		
35	1492.36		
36	#N/A		
37	#N/A		
38	#N/A		



Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Laboratory MST Density

Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 Shipboard

Depth (cm)	Overburden Pressure (kPa)			Total
	Bulk Density (g/cm ³)			
3	1.51	0.167	0.17	
4	1.53	0.049	0.22	
5	1.52	0.050	0.27	
6	1.56	0.051	0.32	
7	1.55	0.052	0.37	
8	1.55	0.051	0.42	
9	1.52	0.050	0.47	
10	1.53	0.051	0.52	
11	1.56	0.052	0.57	
12	1.54	0.051	0.62	
13	1.54	0.051	0.67	
14	1.55	0.051	0.73	
15	1.55	0.051	0.78	
16	1.52	0.051	0.83	
17	1.57	0.051	0.88	
18	1.51	0.051	0.93	
19	1.58	0.052	0.98	
20	1.53	0.050	1.03	
21	1.50	0.048	1.08	
22	1.51	0.047	1.13	
23	1.49	0.046	1.17	
24	1.47	0.045	1.22	
25	1.51	0.046	1.26	
26	1.50	0.047	1.31	
27	1.51	0.048	1.36	
28	1.52	0.049	1.41	
29	1.53	0.049	1.46	
30	1.51	0.048	1.50	
31	1.51	0.049	1.55	
32	1.55	0.051	1.60	
33	1.56	0.052	1.66	
34	1.57	0.054	1.71	
35	1.61	0.056	1.77	
36	1.60	0.057	1.82	
37	1.62	0.057	1.88	
38	1.57	0.056	1.94	
39	1.63	0.059	2.00	
40	1.66	0.062	2.06	
41	1.70	0.065	2.12	
42	1.68	0.065	2.19	
43	1.70	0.064	2.25	
44	1.64	0.060	2.31	
45	1.57	0.064	2.38	
46	1.90	0.073	2.45	
47	1.70	0.072	2.52	
48	1.73	0.068	2.59	
49	1.69	0.099	2.69	
51	1.68	0.098	2.79	
52	1.71	0.067	2.85	
53	1.72	0.067	2.92	
54	1.69	0.067	2.99	
55	1.72	0.069	3.05	
56	1.76	0.071	3.13	
57	1.74	0.071	3.20	
58	1.74	0.069	3.27	
59	1.67	0.066	3.33	
60	1.71	0.066	3.40	
61	1.70	0.067	3.46	
62	1.71	0.068	3.53	
63	1.75	0.069	3.60	
64	1.71	0.069	3.67	
65	1.72	0.067	3.74	
66	1.69	0.067	3.81	
67	1.72	0.066	3.87	
68	1.67	0.066	3.94	
69	1.70	0.066	4.00	
70	1.71	0.067	4.07	
71	1.71	0.067	4.14	
72	1.71	0.067	4.20	
73	1.68	0.066	4.27	
74	1.70	0.066	4.33	
75	1.69	0.065	4.40	
76	1.66	0.062	4.46	
77	1.63	0.060	4.52	
78	1.63	0.062	4.58	
79	1.74	0.067	4.65	
80	1.74	0.069	4.72	
81	1.70	0.067	4.79	
82	1.68	0.065	4.85	
83	1.70	0.067	4.92	
84	1.74	0.068	4.99	
85	1.71	0.067	5.05	
86	1.70	0.066	5.12	
87	1.70	0.067	5.19	
88	1.72	0.069	5.26	
89	1.76	0.072	5.33	
90	1.78	0.073	5.40	
91	1.74	0.072	5.47	
92	1.76	0.072	5.54	
93	1.77	0.072	5.62	
94	1.75	0.071	5.69	
95	1.73	0.068	5.76	
96	1.63	0.032	5.79	



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con	
						Wet (%)	Dry (%)
0	1.49	0.78	69.06	2.52	2.23	47.59	90.81
43	1.72	1.12	58.54	2.71	1.41	34.78	53.33
50	1.76	1.22	51.99	2.55	1.08	30.29	43.46
96	1.72	1.12	59.44	2.75	1.47	35.30	54.55
averages	1.67	1.06	59.76	2.63	1.55	36.99	60.54

** dirt on rim, sediment on lid
 ** sediment on lid
 ** mold on sample

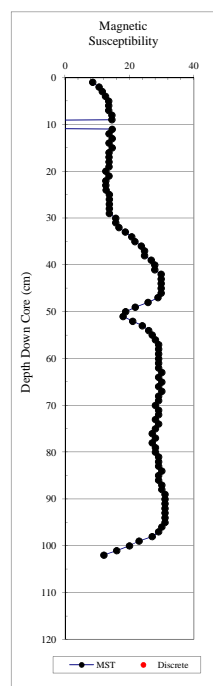
Cruise No: 2004801

Station: 8

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	6.5
1	8.5
2	10.5
3	11.5
4	12.5
5	13.5
6	13.5
7	13.5
8	14.5
9	14.5
10	-184.5
11	14.6
12	13.6
13	14.6
14	13.6
15	14.6
16	13.6
17	13.6
18	13.6
19	13.6
20	12.6
21	13.6
22	12.6
23	12.6
24	12.7
25	13.7
26	13.7
27	13.7
28	13.7
29	13.7
30	15.7
31	15.7
32	16.7
33	18.7
34	20.7
35	21.7
36	23.7
37	24.7
38	24.7
39	26.7
40	27.8
41	27.8
42	29.8
43	29.8
44	29.8
45	29.8
46	29.8
47	28.8
48	25.8
49	21.8
50	18.8
51	18
52	21
53	24
54	26
55	27
56	28
57	29
58	29
59	29
60	29
61	29
62	29
63	30
64	29
65	30
66	29
67	30
68	29
69	29
70	28
71	29
72	29
73	28
74	29
75	28
76	27
77	28
78	27
79	28
80	28
81	29
82	29
83	29
84	30
85	29
86	29
87	30
88	30
89	31
90	31
91	31
92	31
93	31
94	31
95	31
96	30
97	29
98	27
99	23
100	20
101	16
102	12

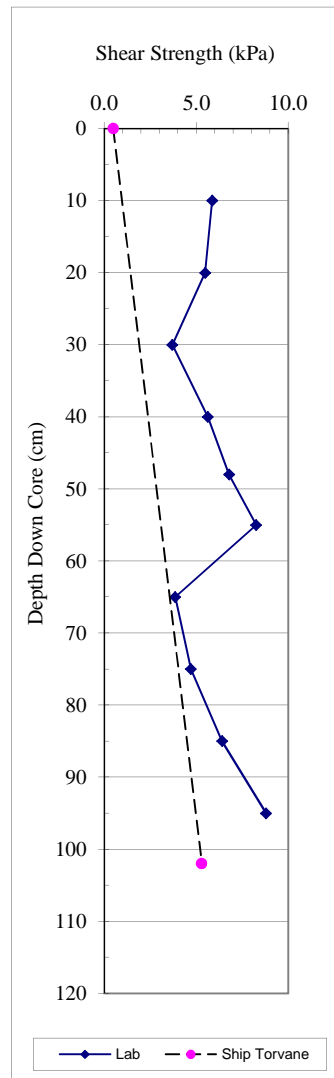


Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

	Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
**	0	1.49	0.78	69.06	2.52	2.23	47.59	90.81	dirt on rim, sediment on lid
	43	1.72	1.12	58.54	2.71	1.41	34.78	53.33	
	50	1.76	1.22	51.99	2.55	1.08	30.29	43.46	sediment on lid
**	80	1.72	1.12	59.44	2.75	1.47	35.30	54.55	mold on sample
	averages	1.67	1.06	59.76	2.63	1.55	36.99	60.54	

Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
10	5.86	6.79	0.86
20	5.48	6.25	0.88
30	3.70		
40	5.63	2.24	2.52
48	6.79	1.00	6.77
55	8.26	9.10	0.91
65	3.86		
75	4.71		
85	6.40		
95	8.80	2.62	3.35
average	5.95		



Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

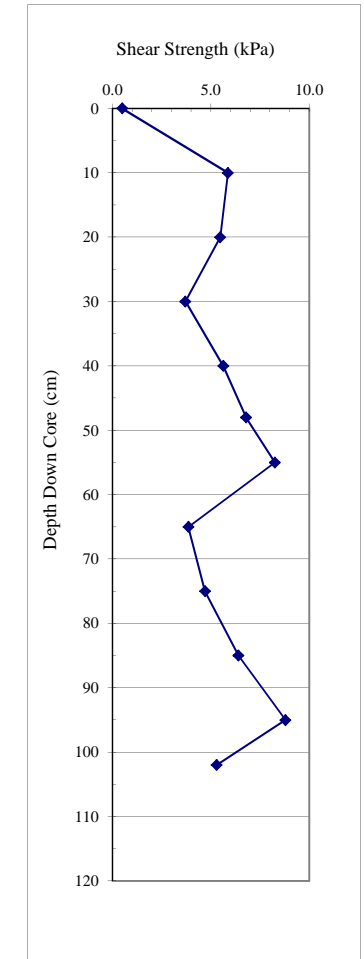
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u>	
	<u>(kPa)</u>	
0	0.49	2.5Y 3/3
102	5.30	Grey1 3/1

Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	
	<u>(kPa)</u>	
NA	NA	
NA	NA	
NA	NA	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
0.0	0.49		
10	5.86	6.79	0.86
20	5.48	6.25	0.88
30	3.70		
40	5.63	2.24	2.52
48	6.79	1.00	6.77
55	8.26	9.10	0.91
65	3.86		
75	4.71		
85	6.40		
95	8.80	2.62	3.35
102	5.30		
average	5.44		



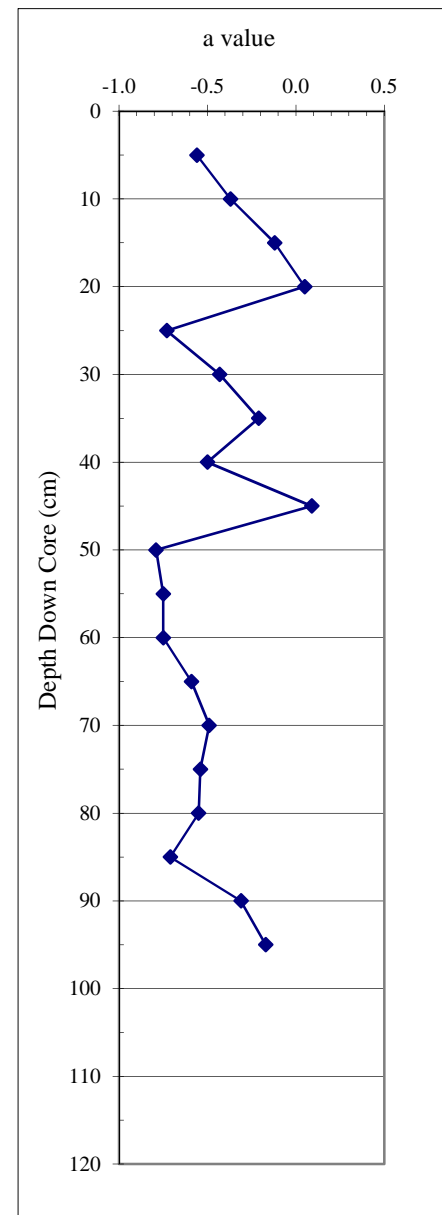
Cruise No: 2004801

Station: 8

Sample Type: Gravity Core

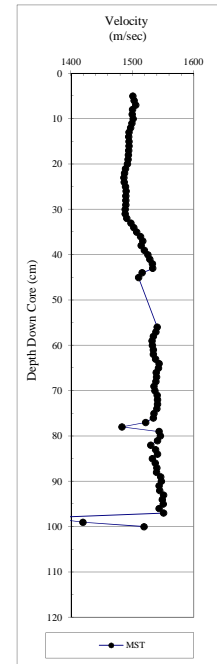
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	-0.56	32.36	0.4
10	-0.37	33.98	1.46
15	-0.12	34.98	2.35
20	0.05	36.19	2.78
25	-0.73	27.49	-0.59
30	-0.43	33.18	1.1
35	-0.21	34.76	1.63
40	-0.5	34.17	0.39
45	0.09	36.6	2.85
50	-0.79	34.88	-0.38
55	-0.75	34.55	-0.31
60	-0.75	33.88	0.1
65	-0.59	33.13	0.52
70	-0.49	34.44	0.66
75	-0.54	35.42	0.84
80	-0.55	33.64	0.48
85	-0.71	27.56	-0.26
90	-0.31	33.03	1.32
95	-0.17	40.18	1.31



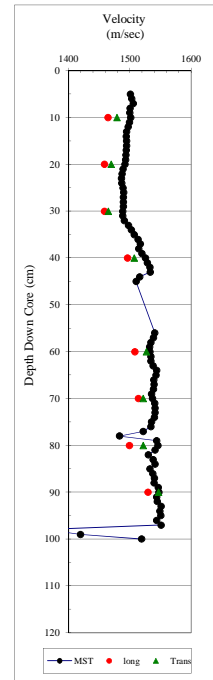
Cruise No: 2004801
 Station: 8
 Sample Type: Gravity Core
 Data Type: Laboratory MST Velocity

Depth (cm)	MST Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	1500.72
6	1502.69
7	1505.22
8	1500.32
9	1499.69
10	1500.92
11	1499.27
12	1496.78
13	1494.61
14	1493.94
15	1494.18
16	1494.54
17	1494.09
18	1493.52
19	1492.85
20	1492.03
21	1488.43
22	1487.05
23	1486.02
24	1486.74
25	1488.47
26	1489.45
27	1489.31
28	1489.18
29	1488.94
30	1488.14
31	1488.28
32	1490.8
33	1497.62
34	1502.02
35	1506.7
36	1513.26
37	1516.65
38	1514.04
39	1519.34
40	1525.01
41	1528.12
42	1532.36
43	1533.14
44	1515.96
45	1509.92
46	#N/A
47	#N/A
48	#N/A
49	#N/A
50	#N/A
51	#N/A
52	#N/A
53	#N/A
54	#N/A
55	#N/A
56	1540.52
57	1537.98
58	1533.8
59	1531.98
60	1532.46
61	1533.94
62	1534.24
63	1537.59
64	1543.25
65	1542.54
66	1538.71
67	1539.01
68	1538.2
69	1534.9
70	1536.4
71	1540.24
72	1541.06
73	1541.09
74	1539.9
75	1535.17
76	1533.91
77	1521.67
78	1482.9
79	1543.56
80	1545.43
81	1540.62
82	1529.96
83	1537.88
84	1540.72
85	1532.7
86	1537.09
87	1539.76
88	1539.4
89	1546.02
90	1546.9
91	1543.21
92	1544.46
93	1550.62
94	1548.63
95	1550.41
96	1543.21
97	1550.5
98	1563.2
99	1419.34
100	1518.81
101	#N/A
102	#N/A



Cruise No: 2004801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	1500.72		
6	1502.69		
7	1505.22		
8	1500.32		
9	1499.69		
10	1500.92	1464.2	1478.48
11	1499.27		
12	1496.78		
13	1494.61		
14	1493.94		
15	1494.18		
16	1494.54		
17	1494.09		
18	1493.52		
19	1492.85		
20	1492.03	1458.56	1469.24
21	1488.43		
22	1487.05		
23	1486.02		
24	1486.74		
25	1488.47		
26	1489.45		
27	1489.31		
28	1489.18		
29	1488.94		
30	1488.14	1458.56	1464.66
31	1488.28		
32	1490.8		
33	1497.62		
34	1502.02		
35	1506.7		
36	1513.26		
37	1516.65		
38	1514.04		
39	1519.34		
40	1525.01	1496	1506.93
41	1528.12		
42	1532.36		
43	1533.14		
44	1515.96		
45	1509.92		
46	#N/A		
47	#N/A		
48	#N/A		
49	#N/A		
50	#N/A		
51	#N/A		
52	#N/A		
53	#N/A		
54	#N/A		
55	#N/A		
56	1540.52		
57	1537.98		
58	1533.8		
59	1531.98		
60	1532.46	1507.92	1526.5
61	1533.94		
62	1534.24		
63	1537.59		
64	1543.25		
65	1542.54		
66	1538.71		
67	1539.01		
68	1538.2		
69	1534.9		
70	1536.4	1513.94	1521.56
71	1540.24		
72	1541.06		
73	1541.09		
74	1539.9		
75	1535.17		
76	1533.91		
77	1521.67		
78	1482.9		
79	1543.56		
80	1545.43	1498.96	1521.56
81	1540.62		
82	1529.96		
83	1537.88		
84	1540.72		
85	1532.7		
86	1537.09		
87	1539.76		
88	1539.4		
89	1546.02		
90	1546.9	1529.22	1546.6
91	1543.21		
92	1544.46		
93	1550.62		
94	1548.63		
95	1550.41		
96	1543.21		
97	1550.5		
98	1363.2		
99	1419.34		
100	1518.81		
101	#N/A		
102	#N/A		



Cruise No: 2004801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2004801

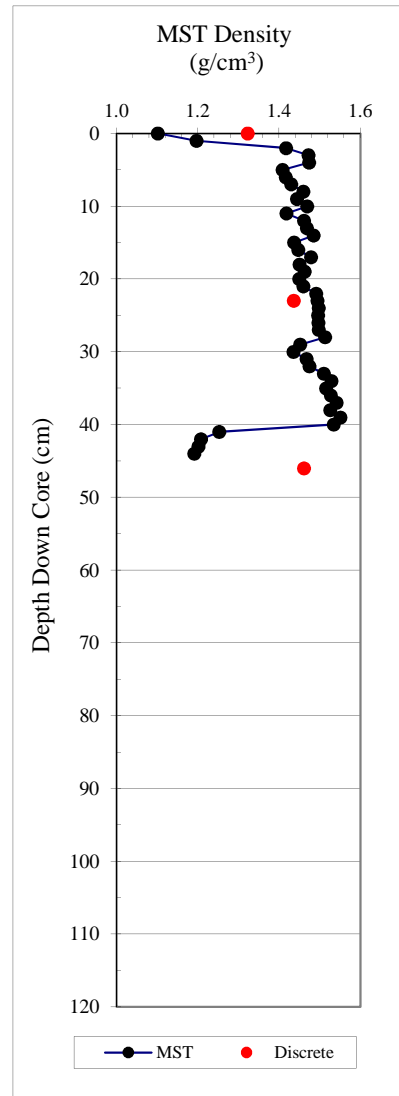
Station: 11

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	1.102	0.004	0.00
1	1.197	0.020	0.02
2	1.417	0.035	0.06
3	1.472	0.043	0.10
4	1.474	0.043	0.14
5	1.409	0.040	0.18
6	1.417	0.039	0.22
7	1.430	0.040	0.26
8	1.460	0.042	0.30
9	1.444	0.042	0.35
10	1.469	0.042	0.39
11	1.418	0.041	0.43
12	1.461	0.042	0.47
13	1.468	0.044	0.51
14	1.485	0.044	0.56
15	1.437	0.042	0.60
16	1.447	0.042	0.64
17	1.479	0.043	0.69
18	1.450	0.043	0.73
19	1.463	0.042	0.77
20	1.449	0.042	0.81
21	1.460	0.043	0.86
22	1.491	0.045	0.90
23	1.495	0.046	0.95
24	1.498	0.046	0.99
25	1.496	0.046	1.04
26	1.497	0.046	1.09
27	1.497	0.047	1.13
28	1.513	0.046	1.18
29	1.452	0.043	1.22
30	1.435	0.042	1.26
31	1.468	0.043	1.31
32	1.475	0.045	1.35
33	1.511	0.047	1.40
34	1.529	0.049	1.45
35	1.516	0.049	1.50
36	1.528	0.049	1.55
37	1.542	0.050	1.60
38	1.526	0.050	1.65
39	1.551	0.051	1.70
40	1.535	0.044	1.74
41	1.253	0.028	1.77
42	1.208	0.019	1.79
43	1.202	0.017	1.81
44	1.192	-0.017	1.79
45	-0.184	-0.026	1.76
46	#N/A		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con	
						Wet (%)	Dry (%)
** 0	1.32	0.45	85.65	3.10	5.97	66.31	196.84
23	1.44	0.68	74.03	2.61	2.85	52.78	111.78
** 46	1.46	0.71	73.54	2.68	2.78	51.52	106.28
averages	1.41	0.61	77.74	2.80	3.87	56.87	138.30

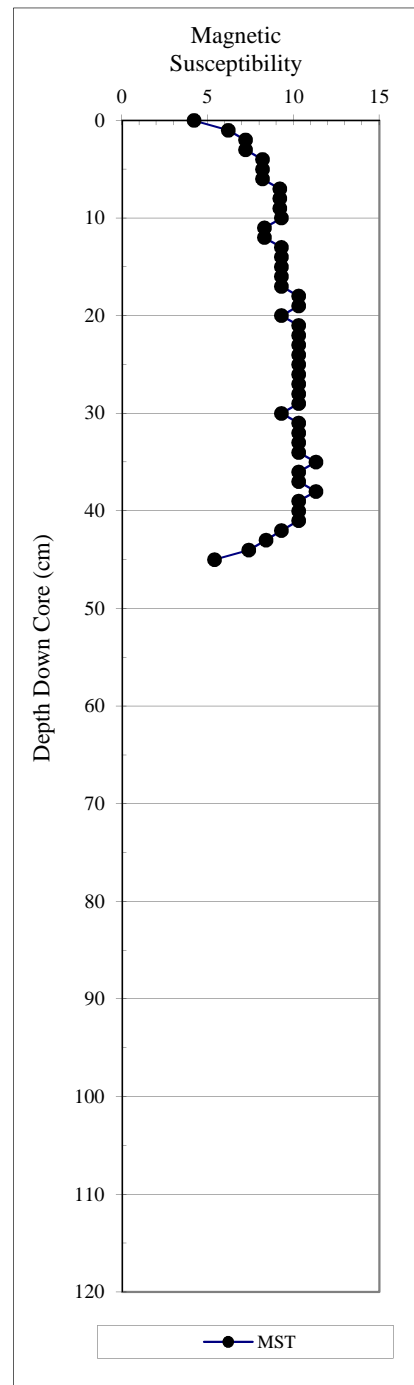
Cruise No: 2004801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Susecibility
0	4.2
1	6.2
2	7.2
3	7.2
4	8.2
5	8.2
6	8.2
7	9.2
8	9.2
9	9.2
10	9.3
11	8.3
12	8.3
13	9.3
14	9.3
15	9.3
16	9.3
17	9.3
18	10.3
19	10.3
20	9.3
21	10.3
22	10.3
23	10.3
24	10.3
25	10.3
26	10.3
27	10.3
28	10.3
29	10.3
30	9.3
31	10.3
32	10.3
33	10.3
34	10.3
35	11.3
36	10.3
37	10.3
38	11.3
39	10.3
40	10.3
41	10.3
42	9.3
43	8.4
44	7.4
45	5.4
46	NA



Cruise No: 2004801

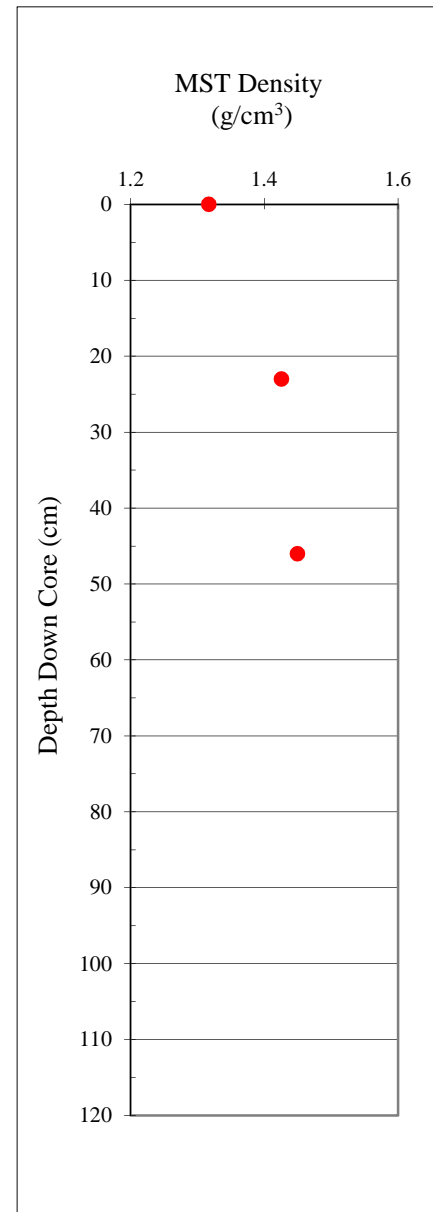
Station: 11

Sample Type: **Push Core**

Data Type: Discrete Laboratory Measurements

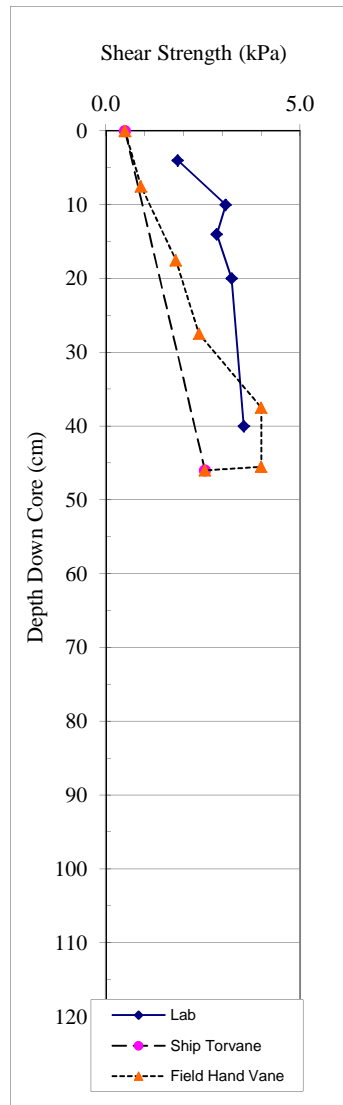
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.32	0.45	85.65	3.10	5.97	66.31	196.84
23	1.44	0.68	74.03	2.61	2.85	52.78	111.78
** 46	1.46	0.71	73.54	2.68	2.78	51.52	106.28
averages	1.41	0.61	77.74	2.80	3.87	56.87	138.30



Cruise No: 2004801
 Station: 11
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
4	1.85	2.55	0.73
10	3.09		
14	2.85	1.77	1.61
20	3.24		
40	3.55	0.62	5.75
average	2.92		



Cruise No: 2004801
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Torvane

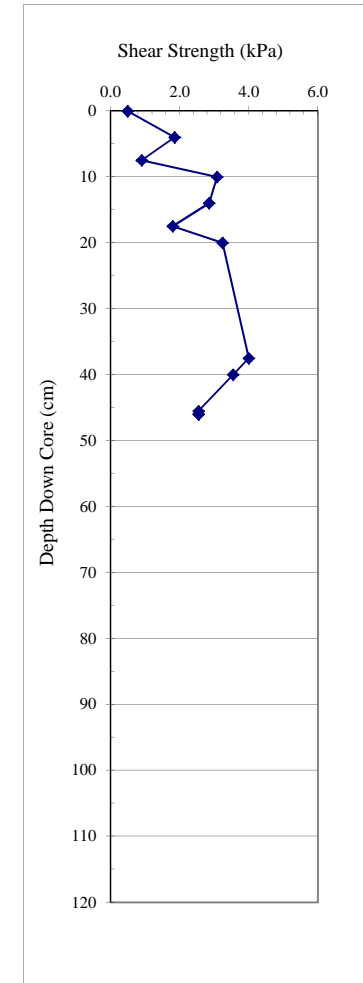
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
	0
46	2.55

Cruise No: 2004801
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	0.0
7.5	0.9
17.5	1.8
27.5	2.4
37.5	4.0
45.5	4.0
46.0	2.55
average	2.31

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.49		
4	1.85	2.55	0.73
7.5	0.90		
10	3.09		
14	2.85	1.77	1.61
17.5	1.80		
20	3.24		
37.5	4.00		
40	3.55	0.62	5.75
45.5	2.55		
46.0	2.55		
46	2.55		
average	2.45		



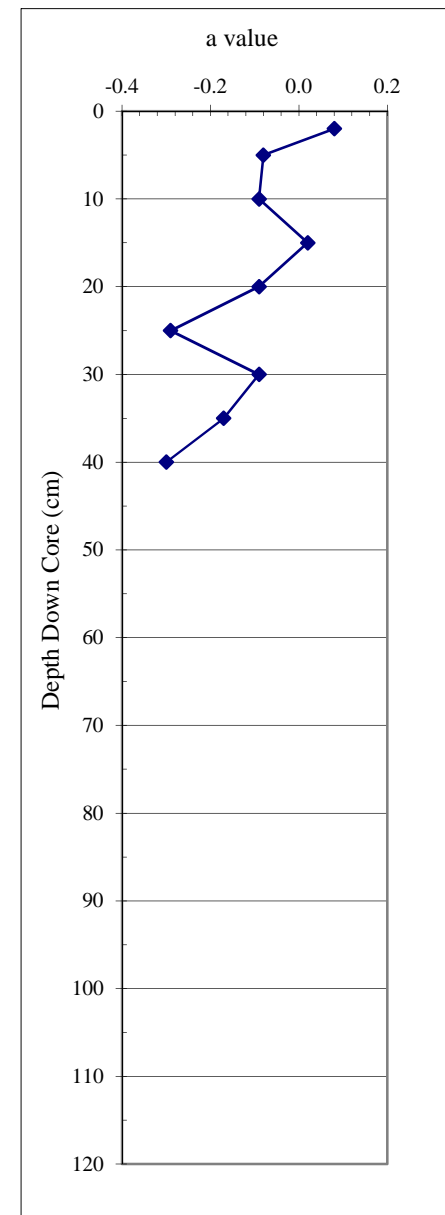
Cruise No: 2004801

Station: 11

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	0.08	36.88	2.66
5	-0.08	33.95	1.6
10	-0.09	37.52	2.58
15	0.02	36.91	2.46
20	-0.09	38.18	1.91
25	-0.29	36.24	1.44
30	-0.09	34.87	1.68
35	-0.17	33.8	1.47
40	-0.3	36.02	1.36



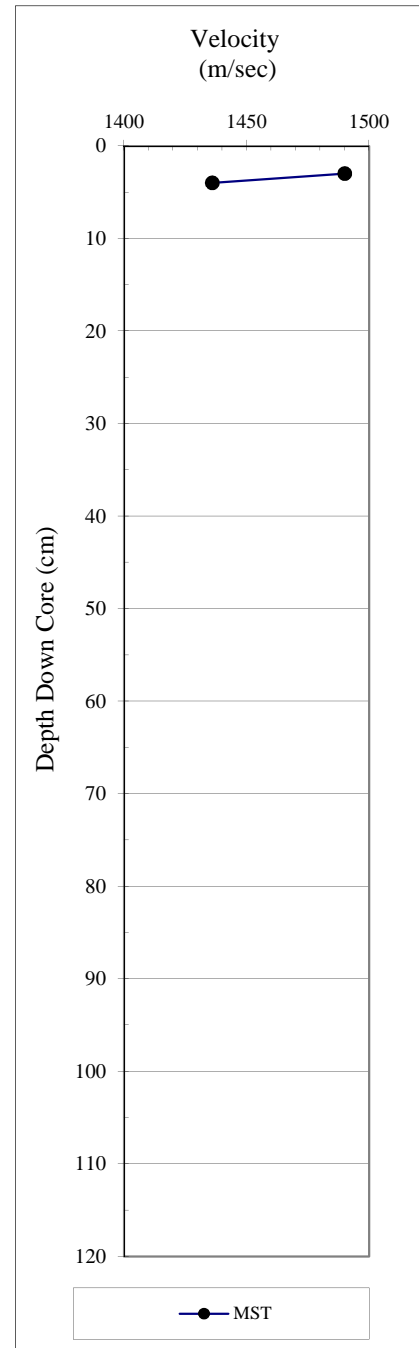
Cruise No: 2004801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1490.02
4	1435.99
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A
29	#N/A
30	#N/A
31	#N/A
32	#N/A
33	#N/A
34	#N/A
35	#N/A
36	#N/A
37	#N/A
38	#N/A
39	#N/A
40	#N/A
41	#N/A
42	#N/A
43	#N/A
44	#N/A
45	#N/A
46	#N/A



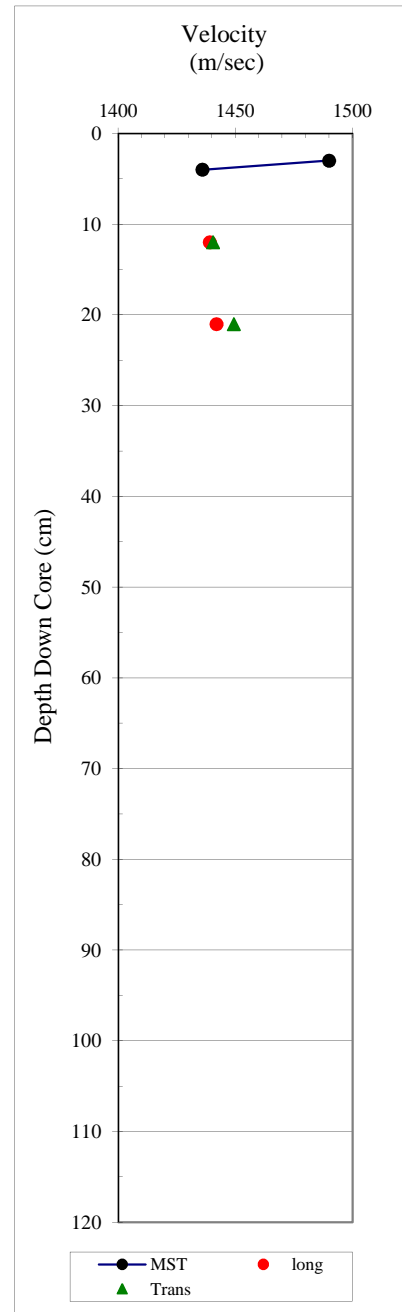
Cruise No: 2004801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1490.02		
4	1435.99		
5	#N/A		
6	#N/A		
7	#N/A		
8	#N/A		
9	#N/A		
10	#N/A		
11	#N/A		
12	#N/A	1439.17	1440.45
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A		
21	#N/A	1441.93	1449.4
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A		
29	#N/A		
30	#N/A		
31	#N/A		
32	#N/A		
33	#N/A		
34	#N/A		
35	#N/A		
36	#N/A		
37	#N/A		
38	#N/A		
39	#N/A		
40	#N/A		
41	#N/A		
42	#N/A		
43	#N/A		
44	#N/A		
45	#N/A		
46	#N/A		



Cruise No: 2004801

Station: 14

Sample Type: Push Core A

Data Type: Laboratory MST Density

Cruise No: 2004801

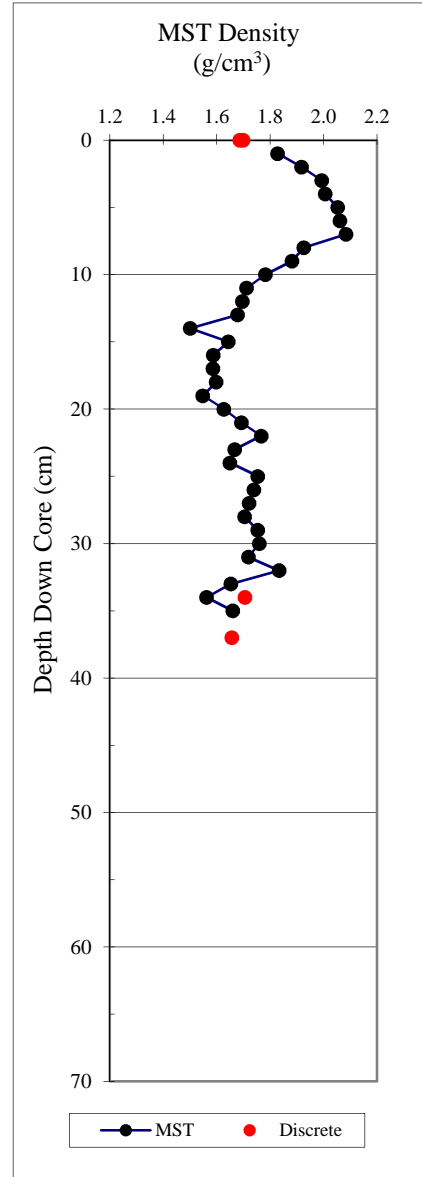
Station: 14

Sample Type: Push Core A

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden Pressure</u> (kPa)	
			Total
0	0.56		
1	1.86	0.123	0.12
2	1.95	0.091	0.21
3	2.03	0.097	0.31
4	2.04	0.101	0.41
5	2.09	0.104	0.52
6	2.10	0.106	0.62
7	2.13	0.104	0.73
8	1.96	0.095	0.82
9	1.91	0.086	0.91
10	1.81	0.078	0.98
11	1.74	0.071	1.06
12	1.72	0.068	1.12
13	1.70	0.062	1.19
14	1.52	0.056	1.24
15	1.67	0.058	1.30
16	1.61	0.058	1.36
17	1.60	0.057	1.42
18	1.62	0.057	1.47
19	1.56	0.056	1.53
20	1.65	0.061	1.59
21	1.72	0.068	1.66
22	1.79	0.071	1.73
23	1.69	0.067	1.80
24	1.67	0.067	1.86
25	1.78	0.071	1.93
26	1.76	0.073	2.01
27	1.75	0.071	2.08
28	1.73	0.071	2.15
29	1.78	0.073	2.22
30	1.79	0.074	2.30
31	1.74	0.075	2.37
32	1.86	0.075	2.44
33	1.67	0.066	2.51
34	1.58	0.059	2.57
35	1.68	0.041	2.61
36	0.84	-0.025	2.59
37	-0.29	-0.037	2.55
averages	1.67		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)		Water Con Wet (%)	Water Con Dry (%)
					VoidRatio		
** 0	1.72	1.18	52.80	2.50	1.12	31.39	45.74
34	1.73	1.17	55.13	2.60	1.23	32.62	48.42
** 37	1.68	1.15	52.02	2.39	1.08	31.73	46.48
averages	1.71	1.16	53.32	2.50	1.14	31.91	46.88

sediment on lid

a little sediment on lid, little bit of mold

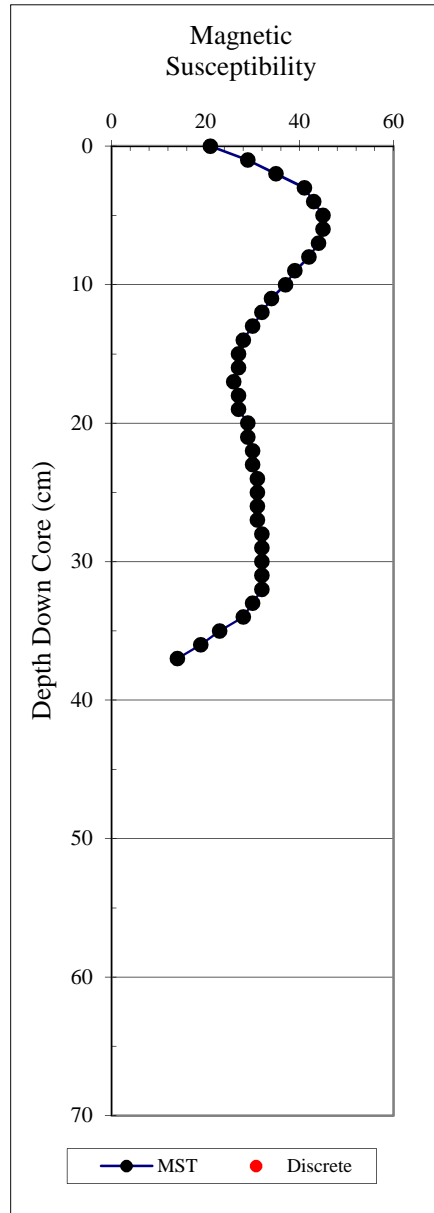
Cruise No: 2004801

Station: 14

Sample Type: Push Core A

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Susecibility
0	21
1	29
2	35
3	41
4	43
5	45
6	45
7	44
8	42
9	39
10	37
11	34
12	32
13	30
14	28
15	27
16	27
17	26
18	27
19	27
20	29
21	29
22	30
23	30
24	31
25	31
26	31
27	31
28	32
29	32
30	32
31	32
32	32
33	30
34	28
35	23
36	19
37	14



Cruise No: 2004801

Station: 14

Sample Type: Push Core A

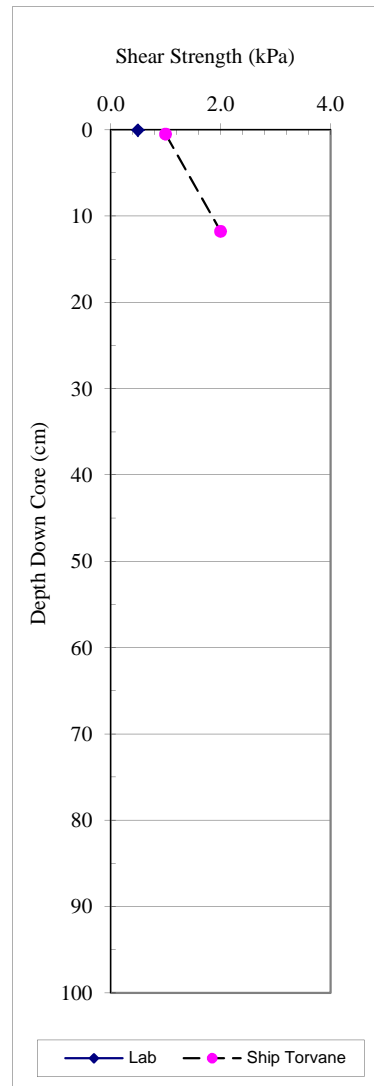
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.72	1.18	52.80	2.50	1.12	31.39	45.74	sediment on lid
34	1.73	1.17	55.13	2.60	1.23	32.62	48.42	
** 37	1.68	1.15	52.02	2.39	1.08	31.73	46.48	a little sediment on lid, little bit of mold
averages	1.71	1.16	53.32	2.50	1.14	31.91	46.88	

Cruise No: 2004801
 Station: 14
 Sample Type: Push Core A
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
0	0.49		



Cruise No: 2004801
 Station: 14
 Sample Type: Push Core A
 Data Type: Shipboard Torvane

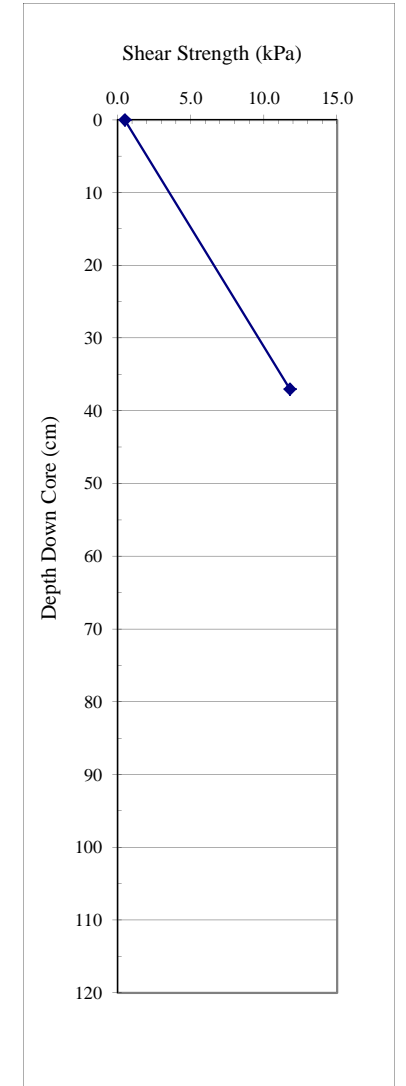
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0	0.49	2.5Y 3/3
37	11.77	2.5/10y

Cruise No: 2004801
 Station: 14
 Sample Type: Push Core A
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0	0.49		
37	12	0.62	18.98



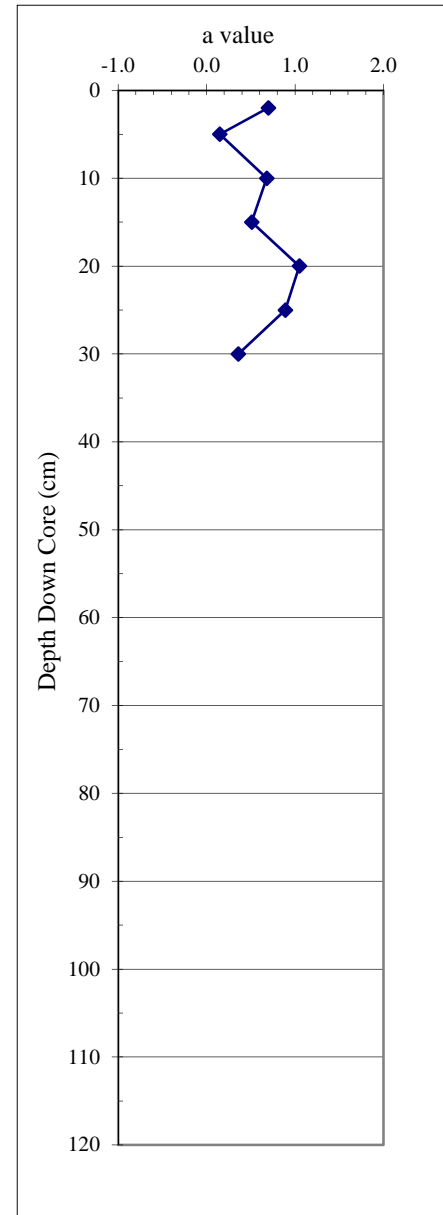
Cruise No: 2004801

Station: 14

Sample Type: Push Core A

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	0.70	36.42	3.37
5	0.15	37.75	2.44
10	0.68	36.85	3.13
15	0.51	36.2	3.17
20	1.05	36.77	4.47
25	0.89	38.49	3.54
30	0.36	38.37	2
average:	0.62	34.17	0.39



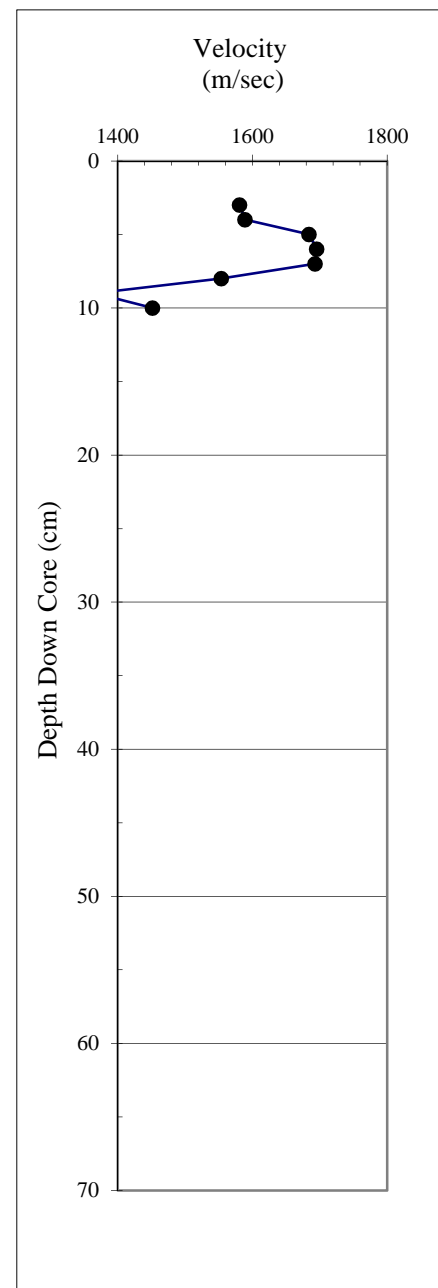
Cruise No: 2004801

Station: 14

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1580.97
4	1589.00
5	1684.04
6	1695.44
7	1692.86
8	1553.73
9	1366.46
10	1451.76
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A
29	#N/A
30	#N/A
31	#N/A
32	#N/A
33	#N/A
34	#N/A
35	#N/A
36	#N/A
37	#N/A



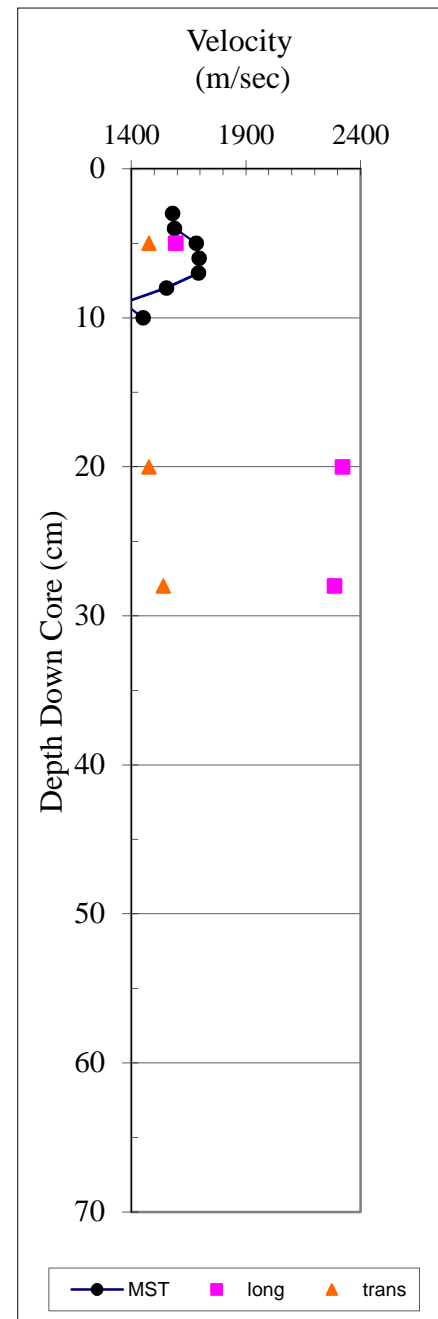
Cruise No: 2004801

Station: 14

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1580.97		
4	1589.00		
5	1684.04	1594.49	1476.93
6	1695.44		
7	1692.86		
8	1553.73		
9	1366.46		
10	1451.76		
11	#N/A		
12	#N/A		
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A	2321.57	1476.93
21	#N/A		
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A	2286.35	1540.31
29	#N/A		
30	#N/A		
31	#N/A		
32	#N/A		
33	#N/A		
34	#N/A		
35	#N/A		
36	#N/A		
37	#N/A		



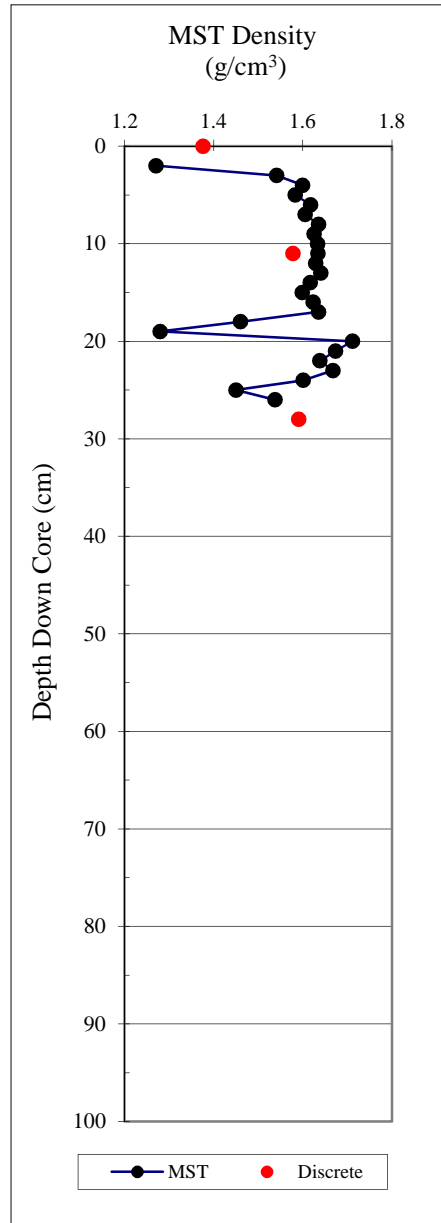
Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	1.25		
1	1.25	0.033	0.03
2	1.27	0.031	0.06
3	1.56	0.047	0.11
4	1.62	0.056	0.17
5	1.60	0.058	0.22
6	1.64	0.059	0.28
7	1.62	0.060	0.34
8	1.66	0.061	0.40
9	1.65	0.061	0.47
10	1.65	0.062	0.53
11	1.65	0.062	0.59
12	1.65	0.062	0.65
13	1.66	0.062	0.71
14	1.64	0.060	0.77
15	1.62	0.059	0.83
16	1.64	0.060	0.89
17	1.66	0.057	0.95
18	1.47	0.044	0.99
19	1.28	0.041	1.04
20	1.74	0.058	1.09
21	1.70	0.066	1.16
22	1.66	0.064	1.22
23	1.69	0.063	1.29
24	1.62	0.056	1.34
25	1.46	0.049	1.39
26	1.55	0.026	1.42
27	0.57	-0.043	1.37
28	-0.34	-0.045	1.33
averages	1.47		



Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
11	1.60	0.91	67.43	2.78	2.07	43.27	76.27
** 28	1.61	0.99	60.87	2.52	1.56	38.72	63.19
averages	1.53	0.84	67.09	2.55	2.11	45.32	85.55

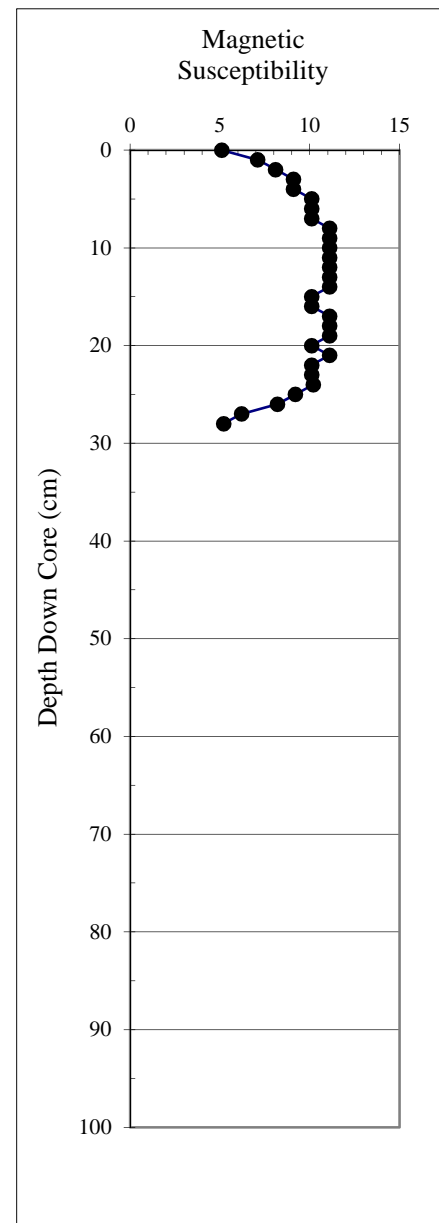
Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	5.1
1	7.1
2	8.1
3	9.1
4	9.1
5	10.1
6	10.1
7	10.1
8	11.1
9	11.1
10	11.1
11	11.1
12	11.1
13	11.1
14	11.1
15	10.1
16	10.1
17	11.1
18	11.1
19	11.1
20	10.1
21	11.1
22	10.1
23	10.1
24	10.2
25	9.2
26	8.2
27	6.2
28	5.2



Cruise No: 2004801

Station: 20

Sample Type: Push Core A

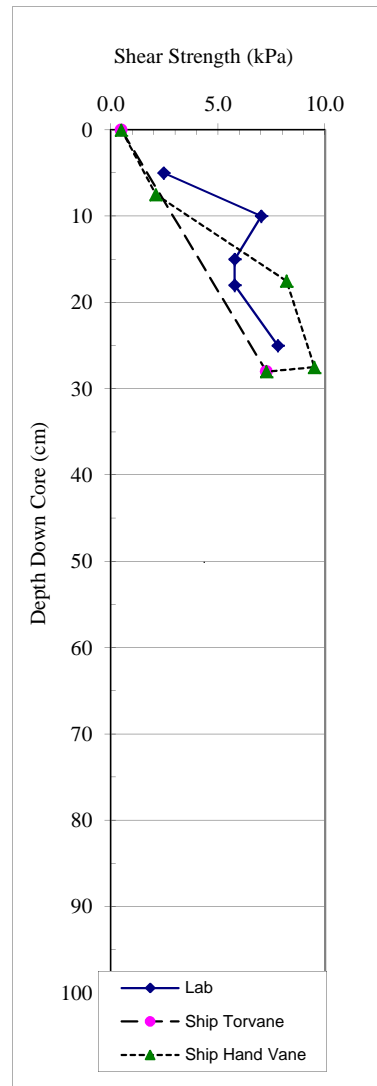
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.38	0.64	72.97	2.36	2.70	53.96	117.21
** 11	1.60	0.91	67.43	2.78	2.07	43.27	76.27
28	1.61	0.99	60.87	2.52	1.56	38.72	63.19
** averages	1.53	0.84	67.09	2.55	2.11	45.32	85.55

Cruise No: 2004801
 Station: 20
 Sample Type: Push Core A
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
5	2.46915	2.54631	0.97
10	7.02164		
15	5.78707	3.31792	1.74
18	5.78707		
25	7.79325	4.70682	1.66
average	5.77		



Cruise No: 2004801
 Station: 20
 Sample Type: Push Core A
 Data Type: Shipboard Torvane

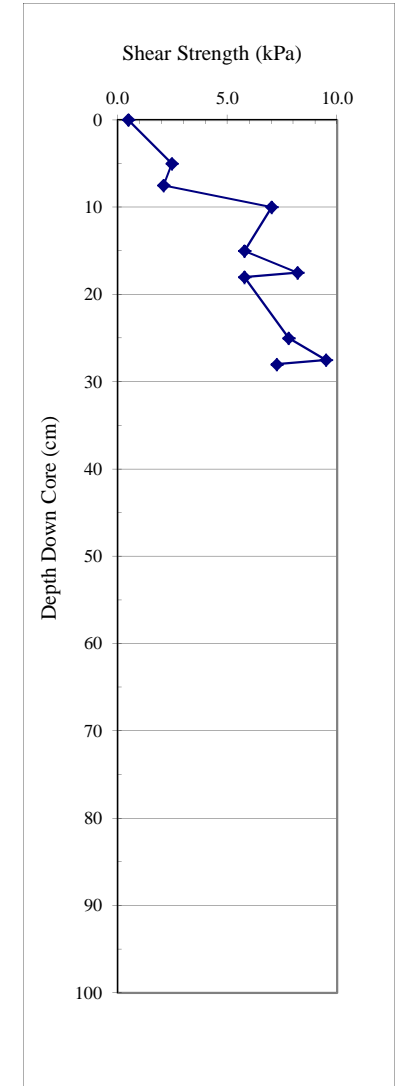
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.49	2.5Y 3/3
28.0	7.26	Grey1 4/N

Cruise No: 2004801
 Station: 20
 Sample Type: Push Core A
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.49	
7.5	2.1	
17.5	8.2	
27.5	9.5	
28.0	7.26	
37.5	7.1	???
average	5.77	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0	0.49		
5.0	2.47	2.55	0.97
7.5	2.10		
10.0	7.02		
15.0	5.79	3.32	1.74
17.5	8.20		
18.0	5.79		
25.0	7.79	4.71	1.66
27.5	9.50		
28.0	7.26		
average	5.64		



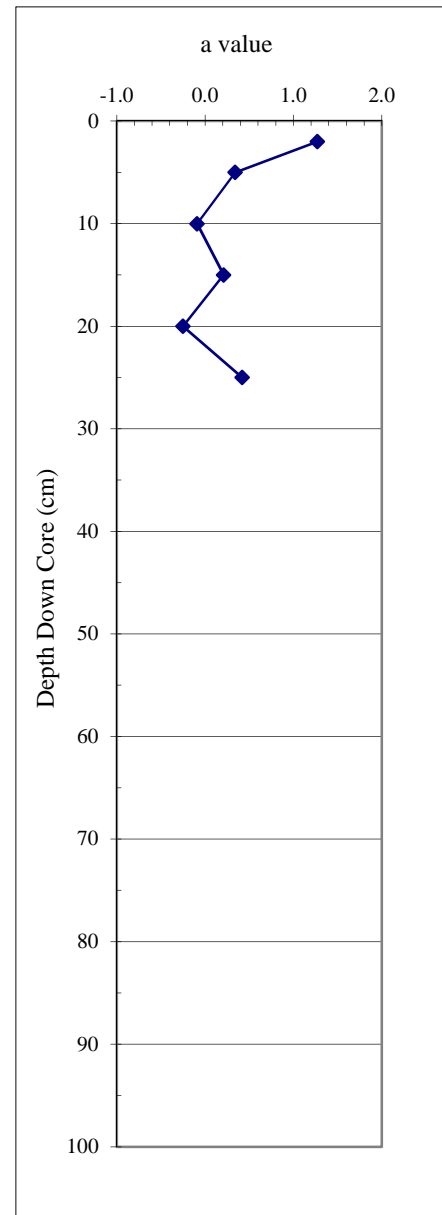
Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	1.27	42.77	4.46
5	0.34	35.08	2.46
10	-0.09	33.72	1.52
15	0.21	36.32	2.14
20	-0.25	31.01	0.61
25	0.42	37.3	2.79
<i>average:</i>	0.32	36.03	2.33



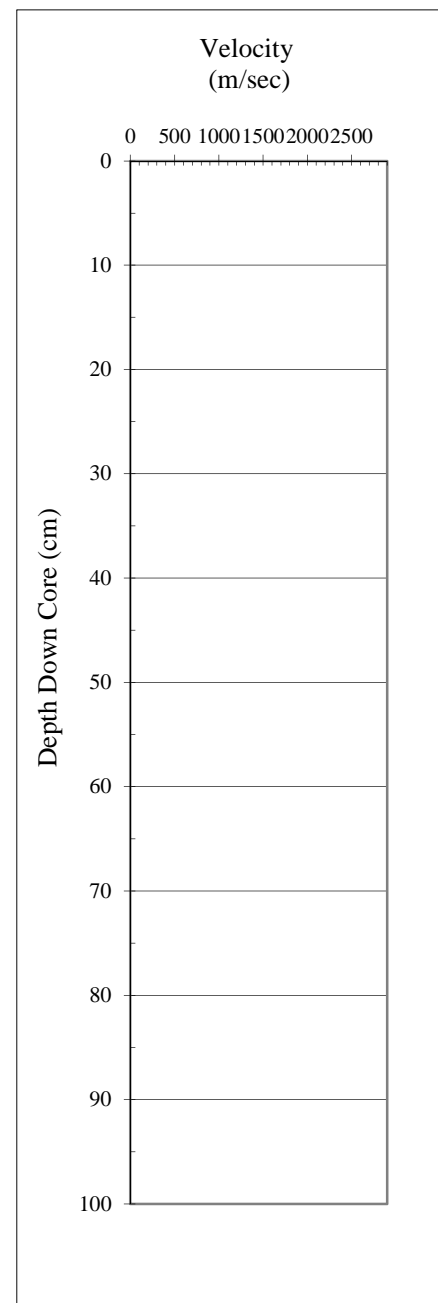
Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A



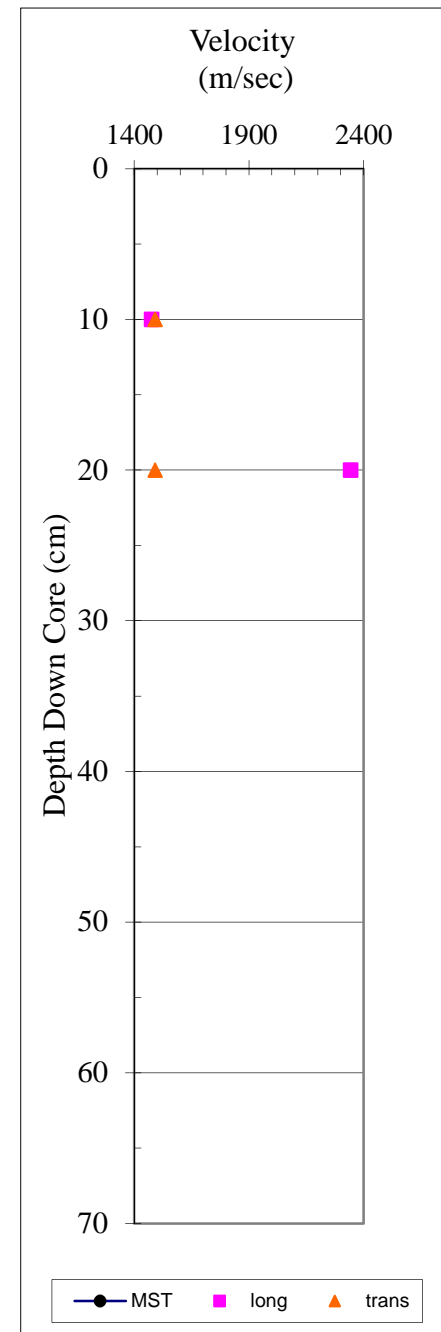
Cruise No: 2004801

Station: 20

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	#N/A		
6	#N/A		
7	#N/A		
8	#N/A		
9	#N/A		
10	#N/A	1475.82	1491.09
11	#N/A		
12	#N/A		
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A	2343.23	1491.09
21	#N/A		
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A		



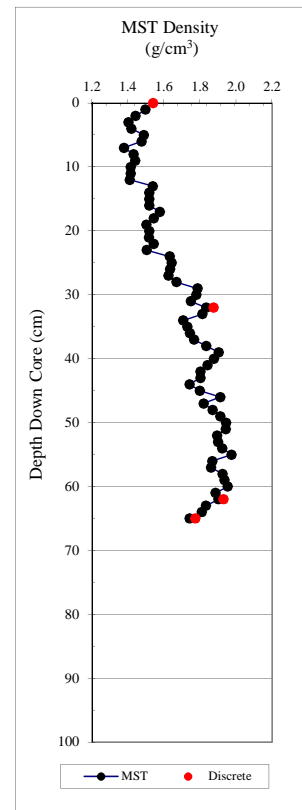
Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden Pressure</u> (kPa)	
		Pressure	Total
0	0.53		
1	1.50	0.070	0.07
2	1.44	0.041	0.11
3	1.40	0.038	0.15
4	1.42	0.040	0.19
5	1.49	0.044	0.23
6	1.48	0.042	0.28
7	1.38	0.038	0.31
8	1.43	0.039	0.35
9	1.44	0.040	0.39
10	1.42	0.039	0.43
11	1.41	0.038	0.47
12	1.41	0.041	0.51
13	1.54	0.047	0.56
14	1.52	0.049	0.61
15	1.52	0.048	0.66
16	1.52	0.050	0.71
17	1.58	0.052	0.76
18	1.54	0.051	0.81
19	1.50	0.048	0.86
20	1.52	0.048	0.90
21	1.52	0.049	0.95
22	1.54	0.049	1.00
23	1.50	0.051	1.05
24	1.63	0.057	1.11
25	1.64	0.060	1.17
26	1.63	0.060	1.23
27	1.62	0.060	1.29
28	1.67	0.065	1.36
29	1.79	0.072	1.43
30	1.78	0.074	1.50
31	1.75	0.074	1.57
32	1.84	0.077	1.65
33	1.81	0.075	1.73
34	1.71	0.070	1.80
35	1.73	0.069	1.87
36	1.74	0.071	1.94
37	1.77	0.036	1.97
38	1.84	0.038	2.01
39	1.90	0.041	2.05
40	1.88	0.043	2.10
41	1.84	0.041	2.14
42	1.80	0.039	2.18
43	1.80	0.038	2.21
44	1.74	0.037	2.25
45	1.80	0.037	2.29
46	1.91	0.041	2.33
47	1.82	0.041	2.37
48	1.87	0.040	2.41
49	1.91	0.043	2.45
50	1.94	0.044	2.50
51	1.94	0.045	2.54
52	1.90	0.044	2.59
53	1.90	0.043	2.63
54	1.92	0.044	2.67
55	1.98	0.045	2.72
56	1.87	0.044	2.76
57	1.86	0.041	2.80
58	1.92	0.043	2.84
59	1.94	0.044	2.89
60	1.95	0.045	2.93
61	1.89	0.044	2.98
62	1.90	0.043	3.02
63	1.83	0.041	3.06
64	1.81	0.039	3.10
65	1.74	0.037	3.14

Averages

1.377

1.561

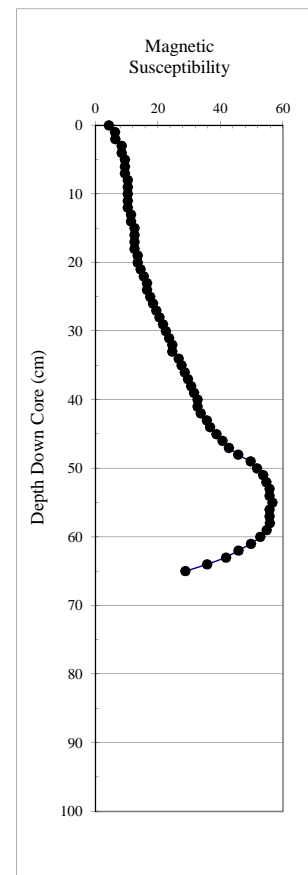


Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
32	1.88	1.37	48.99	2.69	0.96	26.74	36.50
62	1.93	1.48	44.38	2.65	0.80	23.54	30.78
** 65	1.77	1.23	53.52	2.64	1.15	30.88	44.68
averages	1.77	1.23	53.52	2.64	1.15	30.88	44.68

Cruise No: 2004801
Station: 21
Sample Type: Gravity Core
Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	4.3
1	6.3
2	6.4
3	8.4
4	8.4
5	9.4
6	9.4
7	9.4
8	10.4
9	10.4
10	10.4
11	10.4
12	10.4
13	11.4
14	11.4
15	12.5
16	12.5
17	12.5
18	12.5
19	13.5
20	13.5
21	14.5
22	15.5
23	16.5
24	16.5
25	17.5
26	18.5
27	19.5
28	20.5
29	21.6
30	22.6
31	23.6
32	24.6
33	24.6
34	26.6
35	27.6
36	28.6
37	29.6
38	30.6
39	31.6
40	32.7
41	32.7
42	33.7
43	35.7
44	36.7
45	38.7
46	40.7
47	42.7
48	45.7
49	49.7
50	51.7
51	53.7
52	54.7
53	55.7
54	55.7
55	56.7
56	55.7
57	55.7
58	55.8
59	54.8
60	52.8
61	49.8
62	45.8
63	41.8
64	35.8
65	28.8



Cruise No: 2004801

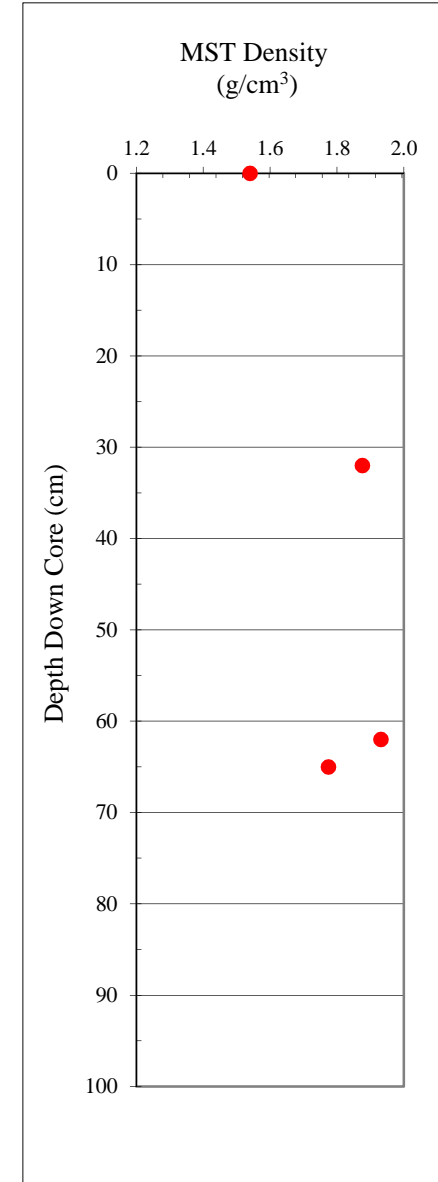
Station: 21

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

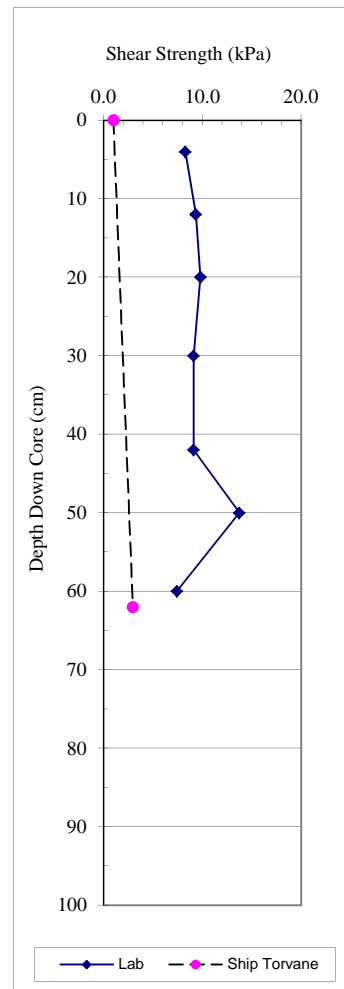
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.54	0.86	66.44	2.56	1.98	44.19	79.19
32	1.88	1.37	48.99	2.69	0.96	26.74	36.50
62	1.93	1.48	44.38	2.65	0.80	23.54	30.78
** 65	<u>1.77</u>	<u>1.23</u>	<u>53.52</u>	<u>2.64</u>	<u>1.15</u>	<u>30.88</u>	<u>44.68</u>
averages	1.77	1.23	53.52	2.64	1.15	30.88	44.68



Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
4	8.26	6.17	1.34
12	9.34		
20	9.80		
30	9.10		
42	9.10	5.56	1.64
50	13.73		
60	7.41	2.78	2.67



Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u>	
	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>	
0	0.98	2.5Y 3/3
62	2.94	2.5/10y

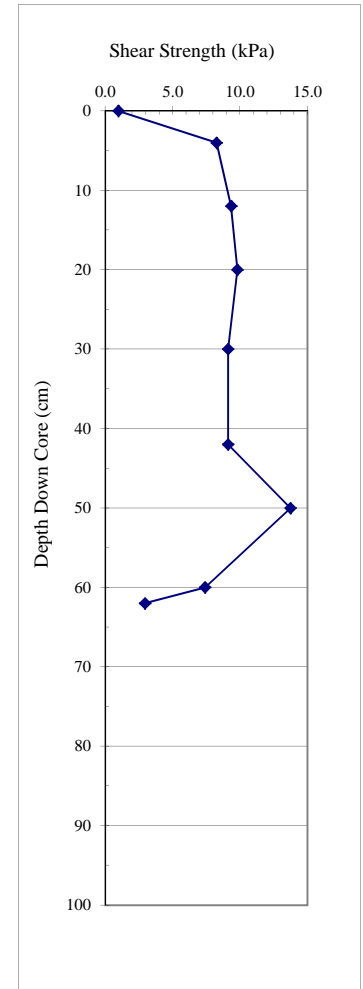
Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	
	<u>Undrained</u>	
NA	NA	
NA	NA	
NA	NA	
NA	NA	
NA	NA	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u>	<u>Undrained</u>	
0.0	0.98	NA	
4	8.26	6.17	1.34
12	9.34	NA	
20	9.80	NA	
30	9.10	NA	
42	9.10	5.56	1.64
50	13.73	NA	
60	7.41	2.78	2.67
62	2.94	NA	

average: 7.85



Cruise No: 2004801

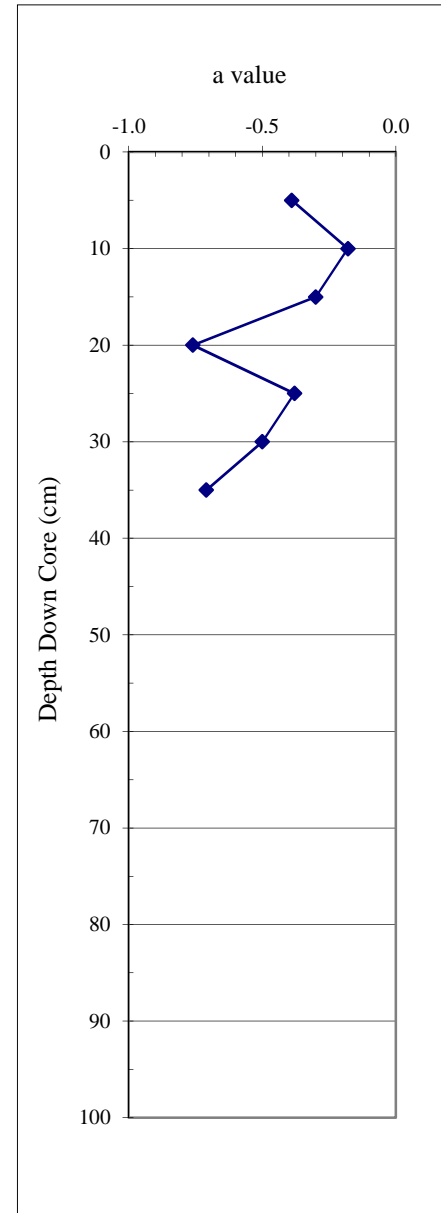
Station: 21

Sample Type: Gravity Core

Data Type: Colour data

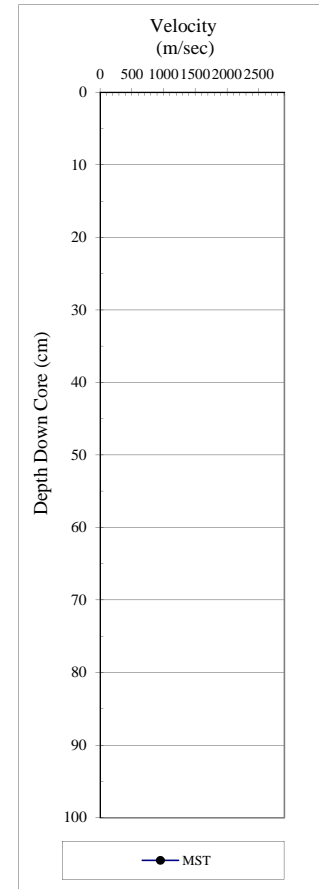
<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	-0.39	32.04	0.6
10	-0.18	33.92	0.85
15	-0.30	33.86	1.37
20	-0.76	30.36	0.13
25	-0.38	33.39	1.32
30	-0.50	34.29	0.68
35	-0.71	34.1	-0.06
40	-0.25	33.56	1.39
45	-0.35	34.61	1.08
50	-0.29	32.62	0.94
55	-0.31	35.9	1.2
60	0.12	37.55	2.2

average **-0.36**



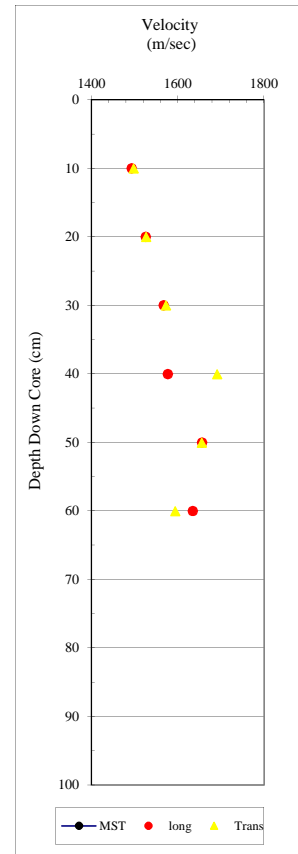
Cruise No: 2004801
Station: 21
Sample Type: Gravity Core
Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A
29	#N/A
30	#N/A
31	#N/A
32	#N/A
33	#N/A
34	#N/A
35	#N/A
36	#N/A
37	#N/A
38	#N/A
39	#N/A
40	#N/A
41	#N/A
42	#N/A
43	#N/A
44	#N/A
45	#N/A
46	#N/A
47	#N/A
48	#N/A
49	#N/A
50	#N/A
51	#N/A
52	#N/A
53	#N/A
54	#N/A
55	#N/A
56	#N/A
57	#N/A
58	#N/A
59	#N/A
60	#N/A
61	#N/A
62	#N/A
63	#N/A
64	#N/A
65	#N/A



Cruise No: 2004801
 Station: 21
 Sample Type: Gravity Core
 Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	#N/A		
6	#N/A		
7	#N/A		
8	#N/A		
9	#N/A		
10	#N/A	1493.05	1497.32
11	#N/A		
12	#N/A		
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A	1526.14	1526.50
21	#N/A		
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A		
29	#N/A		
30	#N/A	1567.19	1572.47
31	#N/A		
32	#N/A		
33	#N/A		
34	#N/A		
35	#N/A		
36	#N/A		
37	#N/A		
38	#N/A		
39	#N/A		
40	#N/A	1576.98	1691.30
41	#N/A		
42	#N/A		
43	#N/A		
44	#N/A		
45	#N/A		
46	#N/A		
47	#N/A		
48	#N/A		
49	#N/A		
50	#N/A	1656.28	1655.55
51	#N/A		
52	#N/A		
53	#N/A		
54	#N/A		
55	#N/A		
56	#N/A		
57	#N/A		
58	#N/A		
59	#N/A		
60	#N/A	1634.84	1593.80
61	#N/A		
62	#N/A		
63	#N/A		
64	#N/A		
65	#N/A		



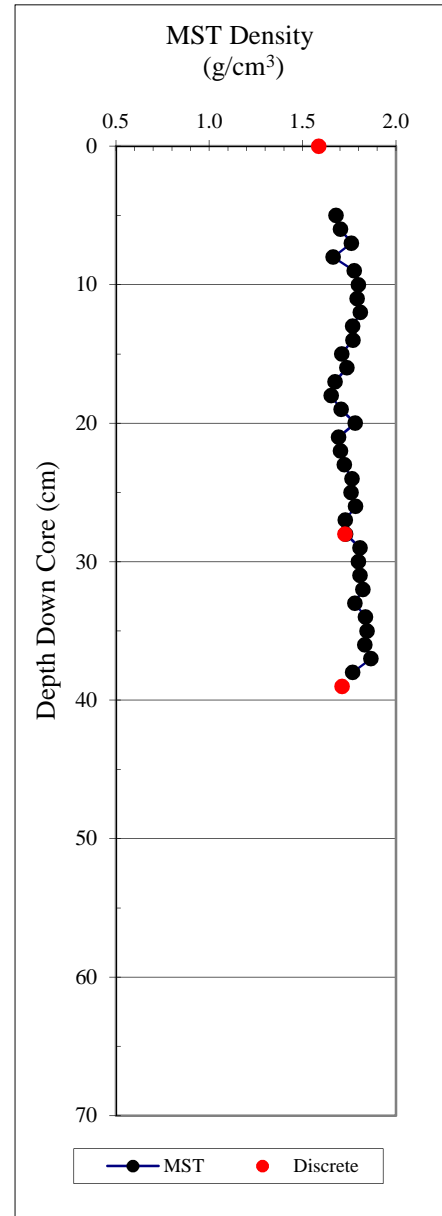
Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	0.31		
1	0.78	-0.035	-0.04
2	1.02	-0.004	-0.04
3	1.11	0.012	-0.03
4	1.33	0.033	0.01
5	1.68	0.056	0.06
6	1.70	0.067	0.13
7	1.76	0.069	0.20
8	1.66	0.068	0.27
9	1.78	0.072	0.34
10	1.80	0.075	0.41
11	1.79	0.076	0.49
12	1.81	0.076	0.56
13	1.77	0.074	0.64
14	1.77	0.072	0.71
15	1.71	0.069	0.78
16	1.74	0.068	0.85
17	1.67	0.065	0.91
18	1.65	0.064	0.98
19	1.71	0.068	1.04
20	1.78	0.070	1.11
21	1.69	0.068	1.18
22	1.70	0.067	1.25
23	1.72	0.069	1.32
24	1.76	0.072	1.39
25	1.76	0.073	1.46
26	1.78	0.073	1.53
27	1.73	0.071	1.61
28	1.73	0.071	1.68
29	1.81	0.075	1.75
30	1.80	0.077	1.83
31	1.81	0.077	1.90
32	1.82	0.077	1.98
33	1.78	0.077	2.06
34	1.84	0.079	2.14
35	1.85	0.080	2.22
36	1.83	0.081	2.30
37	1.87	0.079	2.38
38	1.77	0.053	2.43
39	0.87	0.015	2.45



Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
28	1.727	1.1283	58.4597	2.7162	1.4073	34.6638	53.0545
** 39	1.7126	1.1248	57.4038	2.6405	1.3476	34.3236	52.2618
averages	1.68	1.06	59.72	2.64	1.49	36.61	58.12

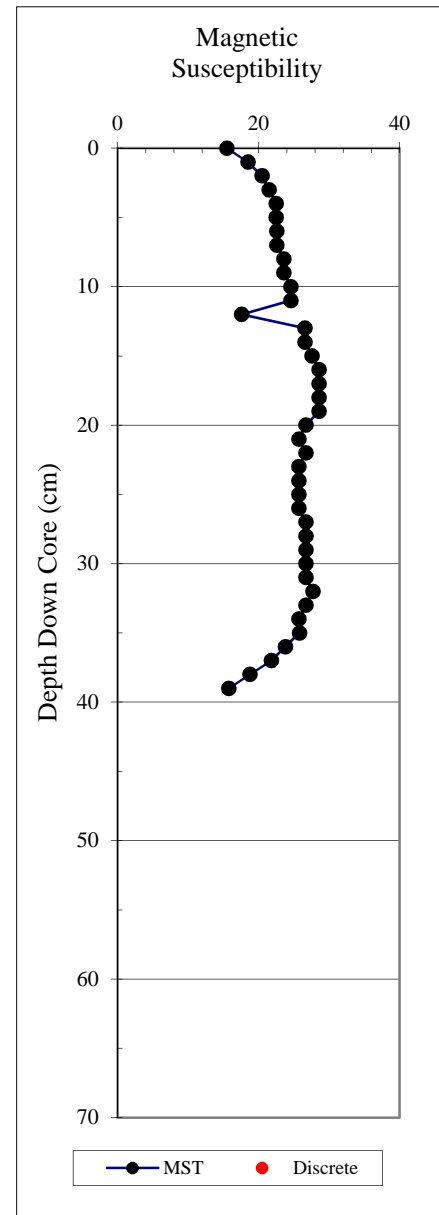
Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Suscibility
0	15.5
1	18.5
2	20.5
3	21.5
4	22.5
5	22.5
6	22.6
7	22.6
8	23.6
9	23.6
10	24.6
11	24.6
12	17.6
13	26.6
14	26.6
15	27.6
16	28.6
17	28.6
18	28.6
19	28.6
20	26.7
21	25.7
22	26.7
23	25.7
24	25.7
25	25.7
26	25.7
27	26.7
28	26.7
29	26.7
30	26.7
31	26.7
32	27.7
33	26.7
34	25.7
35	25.8
36	23.8
37	21.8
38	18.8
39	15.8



Cruise No: 2004801

Station: 24

Sample Type: Push Core A

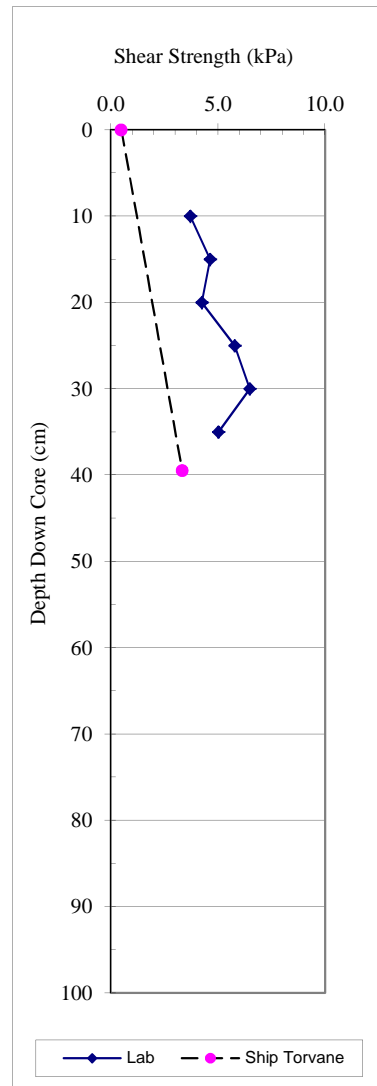
Data Type: Discrete Laboratory Measurements

** Shipboard

	Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
**	0	1.59	0.94	63.30	2.56	1.72	40.85	69.05
	28	1.73	1.13	58.46	2.72	1.41	34.66	53.05
**	39	1.71	1.12	57.40	2.64	1.35	34.32	52.26
	averages	1.68	1.06	59.72	2.64	1.49	36.61	58.12

Cruise No: 2004801
 Station: 24
 Sample Type: Push Core A
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
10	3.70372	2.08334	
15	4.62965		
20	4.24385	3.39508	
25	5.78707		
30	6.48152	3.47224	
35	5.01546		



Cruise No: 2004801
 Station: 24
 Sample Type: Push Core A
 Data Type: Shipboard Torvane

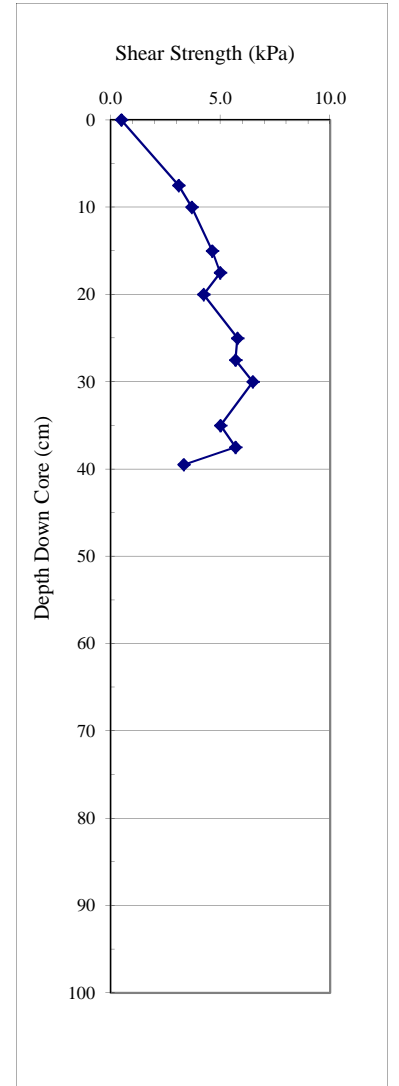
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.49	2.5Y 3/3
39.5	3.33	Grey1 2.5/10

Cruise No: 2004801
 Station: 24
 Sample Type: Push Core A
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
0.0	0.49
7.5	3.1
17.5	5.0
27.5	5.7
37.5	5.7
39.5	3.33

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
0	0.49		
8	3.10		
10	3.70	2.08	1.78
15	4.63		
17.5	5.00		
20	4.24	3.40	1.25
25	5.79		
27.5	5.70		
30	6.48	3.47	1.87
35	5.02		
37.5	5.70		
40	3.33		



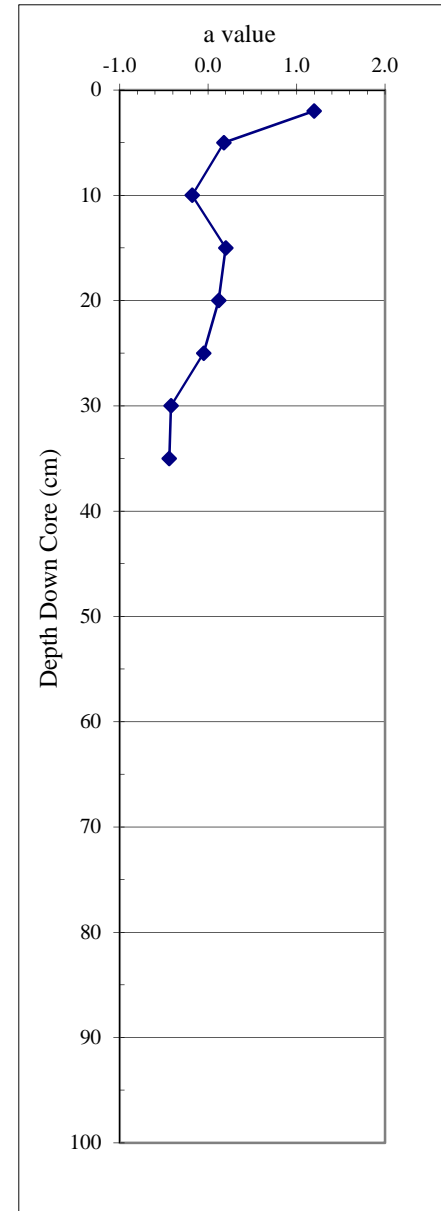
Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	1.2	39.69	4.32
5	0.18	34.33	2.43
10	-0.18	37.13	1.36
15	0.2	33.89	2.9
20	0.12	37.77	1.61
25	-0.05	35.26	1.59
30	-0.42	35.63	0.51
35	-0.44	34.25	0.57
average	0.076		



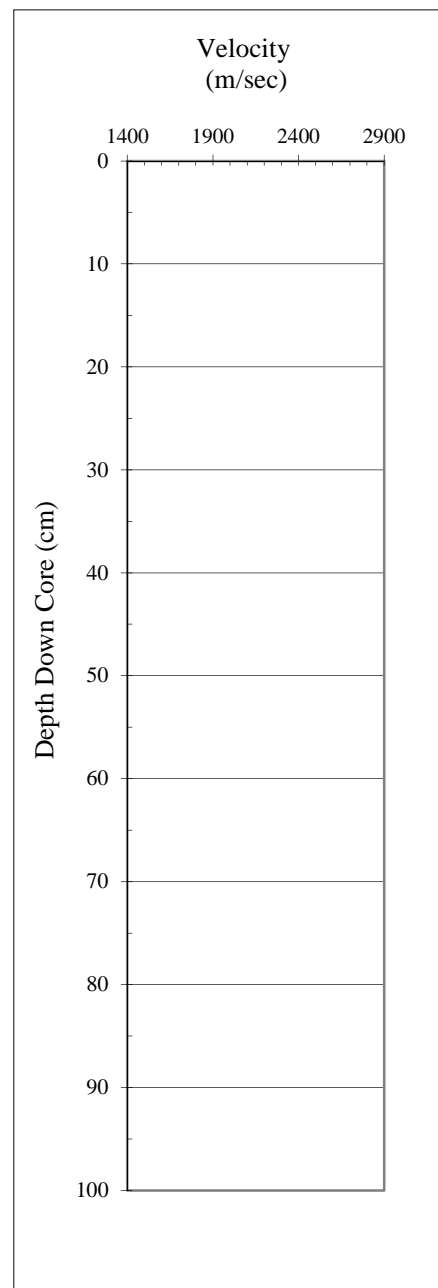
Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Velocity (m/sec)
0	0
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A
29	#N/A
30	#N/A
31	#N/A
32	#N/A
33	#N/A
34	#N/A
35	#N/A
36	#N/A
37	#N/A
38	#N/A
39	#N/A



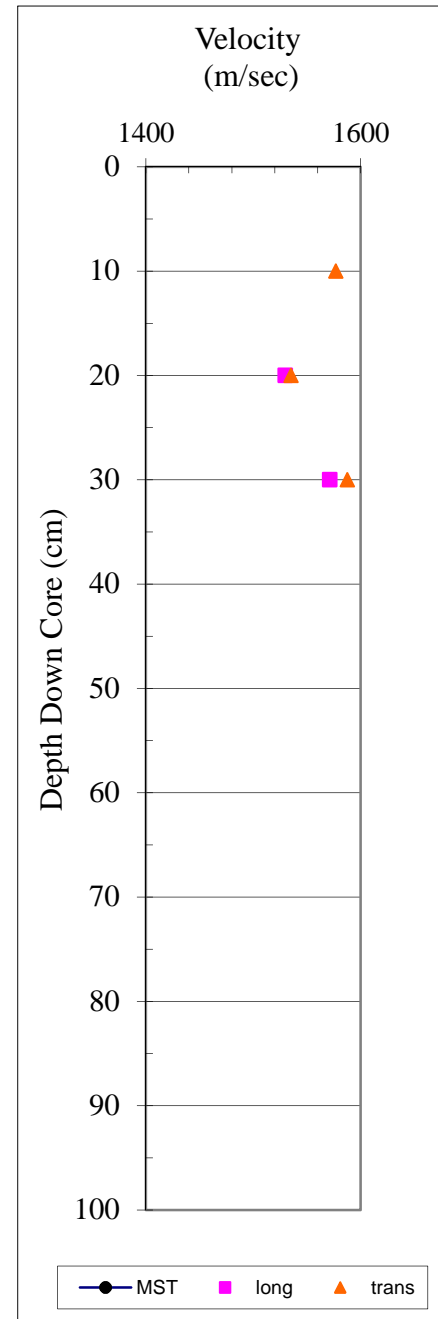
Cruise No: 2004801

Station: 24

Sample Type: Push Core A

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	0		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	#N/A		
6	#N/A		
7	#N/A		
8	#N/A		
9	#N/A		
10	#N/A	#N/A	1576.75
11	#N/A		
12	#N/A		
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A	1529.75	1535.24
21	#N/A		
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A		
29	#N/A		
30	#N/A	1571.22	1587.48
31	#N/A		
32	#N/A		
33	#N/A		
34	#N/A		
35	#N/A		
36	#N/A		
37	#N/A		
38	#N/A		
39	#N/A		



Cruise No: 2004801

Station: 27

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2004801

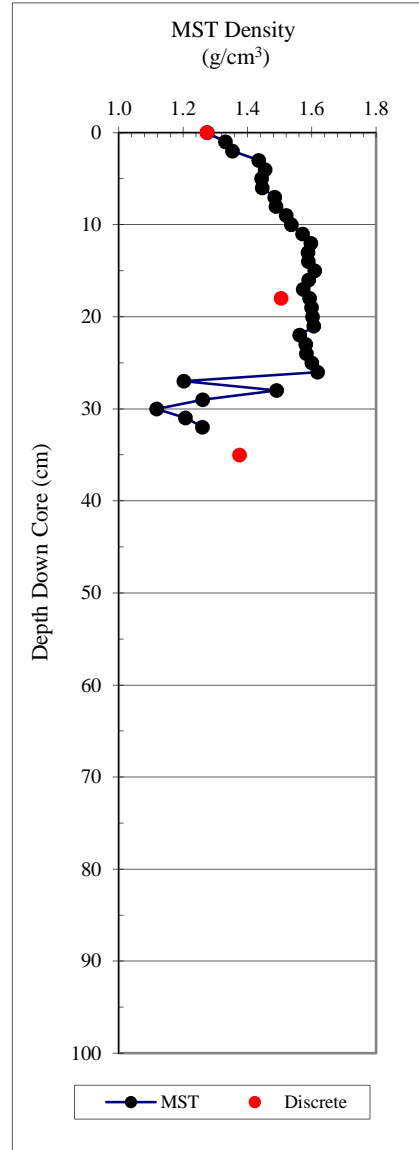
Station: 27

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden Pressure</u> (kPa)	
			Total
0	1.27		
1	1.33	0.045	0.05
2	1.35	0.034	0.08
3	1.44	0.039	0.12
4	1.46	0.042	0.16
5	1.44	0.042	0.20
6	1.45	0.042	0.24
7	1.48	0.044	0.29
8	1.49	0.046	0.33
9	1.52	0.048	0.38
10	1.54	0.051	0.43
11	1.57	0.053	0.49
12	1.60	0.055	0.54
13	1.59	0.056	0.60
14	1.59	0.056	0.65
15	1.61	0.056	0.71
16	1.59	0.056	0.77
17	1.57	0.055	0.82
18	1.59	0.055	0.88
19	1.60	0.056	0.93
20	1.60	0.057	0.99
21	1.61	0.056	1.04
22	1.56	0.054	1.10
23	1.58	0.054	1.15
24	1.58	0.055	1.21
25	1.60	0.057	1.27
26	1.62	0.048	1.31
27	1.20	0.035	1.35
28	1.49	0.033	1.38
29	1.26	0.025	1.41
30	1.12	0.015	1.42
31	1.21	0.017	1.44
32	1.26	0.012	1.45
33	0.87	-0.035	1.42
34	-0.31	#N/A	#N/A
35	#N/A	#N/A	#N/A



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.27	0.43	82.54	2.46	4.73	66.33	197.00
** 18	1.50	0.77	72.05	2.74	2.58	49.04	96.24
** 35	<u>1.37</u>	<u>0.61</u>	<u>74.40</u>	<u>2.39</u>	<u>2.91</u>	<u>55.41</u>	<u>124.24</u>
averages	1.37	0.61	74.40	2.39	2.91	55.41	124.24

incorrect depth of 0cm entered in file

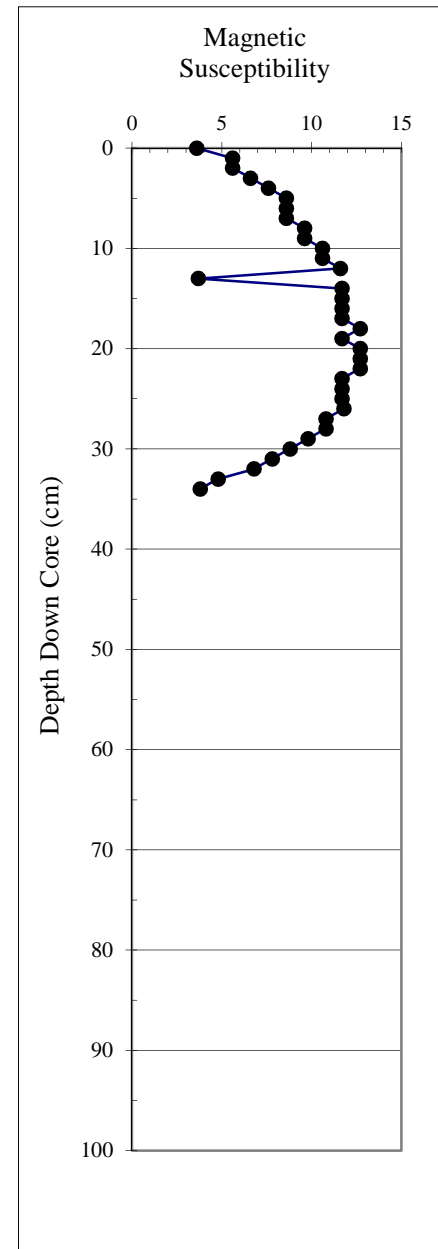
Cruise No: 2004801

Station: 27

Sample Type: Push Core

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	3.6
1	5.6
2	5.6
3	6.6
4	7.6
5	8.6
6	8.6
7	8.6
8	9.6
9	9.6
10	10.6
11	10.6
12	11.6
13	3.7
14	11.7
15	11.7
16	11.7
17	11.7
18	12.7
19	11.7
20	12.7
21	12.7
22	12.7
23	11.7
24	11.7
25	11.7
26	11.8
27	10.8
28	10.8
29	9.8
30	8.8
31	7.8
32	6.8
33	4.8
34	3.8
35	



Cruise No: 2004801

Station: 27

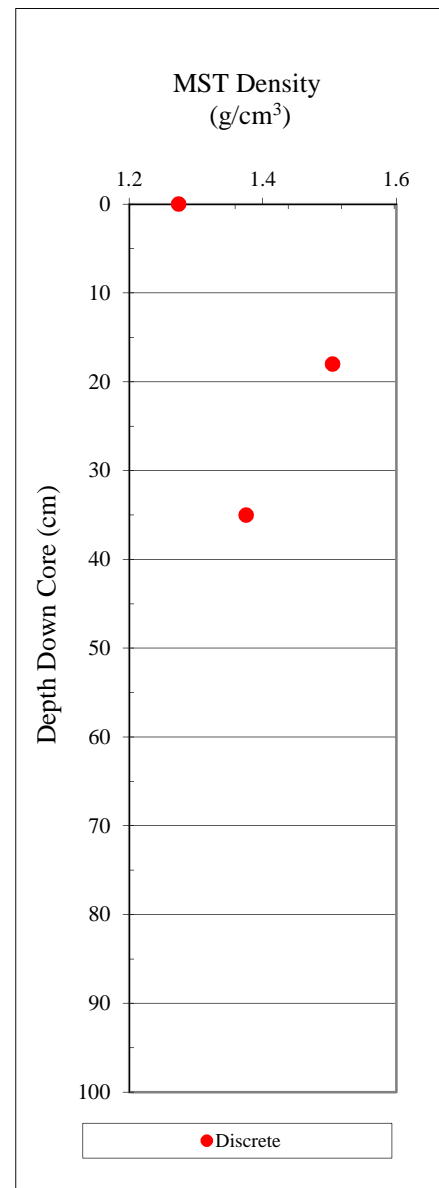
Sample Type: **Push Core**

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.27	0.43	82.54	2.46	4.73	66.33	197.00
18	1.50	0.77	72.05	2.74	2.58	49.04	96.24
** 35	1.37	0.61	74.40	2.39	2.91	55.41	124.24
averages	1.37	0.61	74.40	2.39	2.91	55.41	124.24

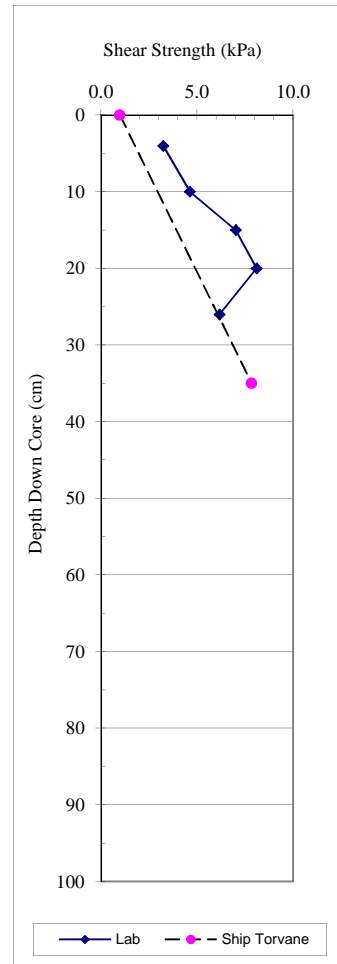
incorrect depth of 0cm entered in file



Cruise No: 2004801
 Station: 27
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
4	3.24		
10	4.63	3.32	1.40
15	7.02		
20	8.10	4.71	1.72
26	6.17		

average 5.83



Cruise No: 2004801
 Station: 27
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u>	
	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>	
0	0.98	2.5Y 3/3
35	7.85	Grey1 2.5/10

2.5Y 3/3
 Grey1 2.5/10

Cruise No: 2004801
 Station: 27
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
7.5	2.0	
17.5	6.0	
27.5	8.0	
35	3.0	

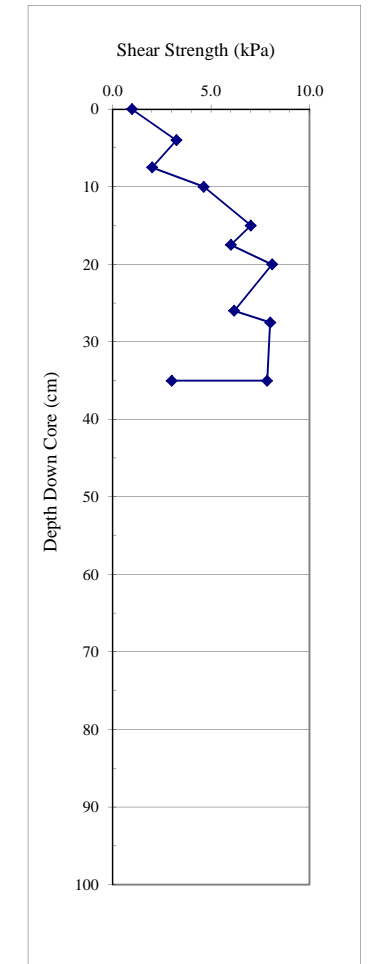
Into black oily stuff

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.98		
4	3.24		
7.5	2.00		
10	4.63	3.32	1.40
15	7.02		
17.5	6.00		
20	8.10	4.71	1.72
26	6.17		
27.5	8.00		
35	7.85		
35	3.00		

average: 5.18

Into black oily stuff



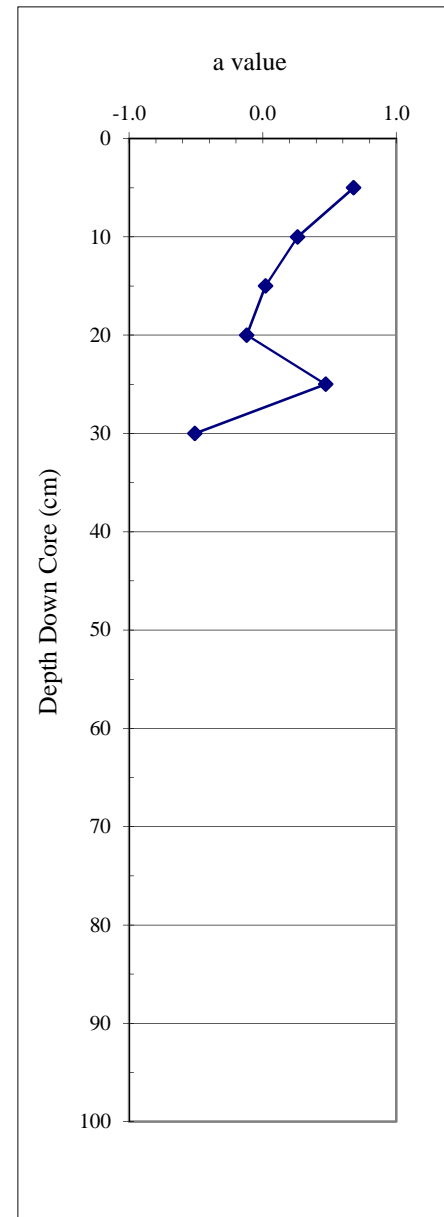
Cruise No: 2004801

Station: 27

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	0.68	35.09	3.93
10	0.26	35.92	2.96
15	0.02	34.19	2.67
20	-0.12	33.39	1.4
25	0.47	37.63	3.74
30	-0.51	35.83	-0.77
average	0.13		



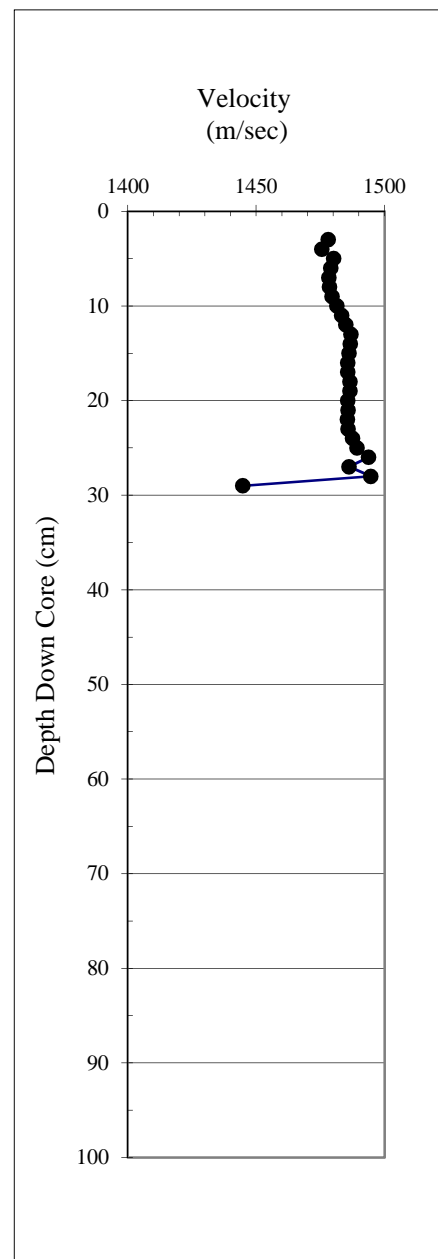
Cruise No: 2004801

Station: 27

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1478.07
4	1475.52
5	1480.22
6	1479.03
7	1478.29
8	1478.51
9	1479.54
10	1481.47
11	1483.34
12	1484.89
13	1486.95
14	1486.62
15	1486.11
16	1485.63
17	1485.64
18	1486.56
19	1486.58
20	1485.59
21	1485.72
22	1485.52
23	1485.83
24	1487.55
25	1489.28
26	1493.72
27	1486.19
28	1494.67
29	1444.72
30	#N/A
31	#N/A
32	#N/A
33	#N/A
34	#N/A
35	#N/A



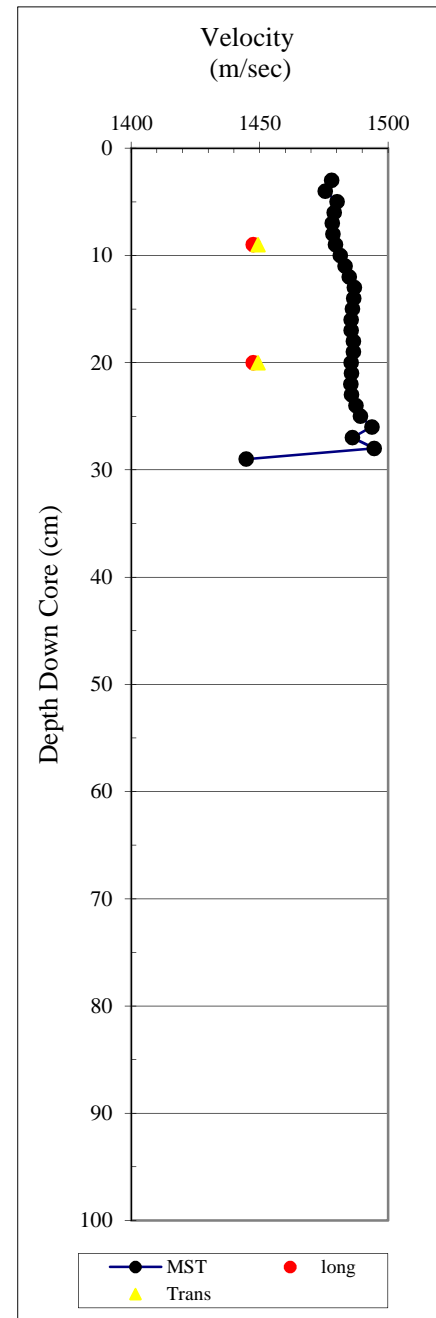
Cruise No: 2004801

Station: 27

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1478.07		
4	1475.52		
5	1480.22		
6	1479.03		
7	1478.29		
8	1478.51		
9	1479.54	1447.47	1449.38
10	1481.47		
11	1483.34		
12	1484.89		
13	1486.95		
14	1486.62		
15	1486.11		
16	1485.63		
17	1485.64		
18	1486.56		
19	1486.58		
20	1485.59	1447.47	1449.38
21	1485.72		
22	1485.52		
23	1485.83		
24	1487.55		
25	1489.28		
26	1493.72		
27	1486.19		
28	1494.67		
29	1444.72		
30	#N/A		
31	#N/A		
32	#N/A		
33	#N/A		
34	#N/A		
35	#N/A		



Cruise No: 2004801

Station: 30

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2004801

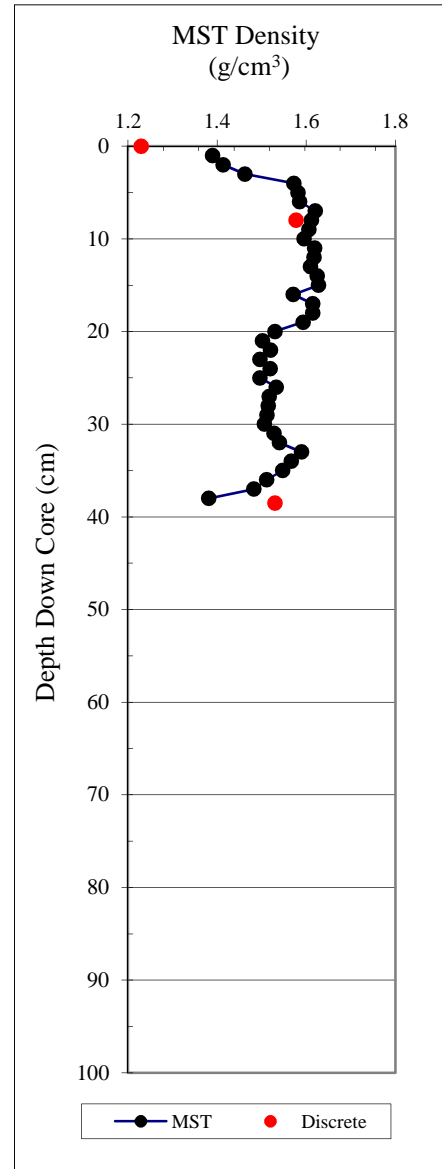
Station: 30

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	0.26		
1	1.39	0.054	0.05
2	1.41	0.039	0.09
3	1.46	0.044	0.14
4	1.57	0.051	0.19
5	1.58	0.055	0.24
6	1.59	0.056	0.30
7	1.62	0.057	0.36
8	1.61	0.058	0.41
9	1.61	0.057	0.47
10	1.60	0.057	0.53
11	1.62	0.058	0.59
12	1.62	0.058	0.64
13	1.61	0.058	0.70
14	1.62	0.059	0.76
15	1.63	0.058	0.82
16	1.57	0.056	0.87
17	1.61	0.057	0.93
18	1.61	0.057	0.99
19	1.59	0.055	1.04
20	1.53	0.050	1.09
21	1.50	0.048	1.14
22	1.52	0.048	1.19
23	1.50	0.047	1.24
24	1.52	0.047	1.28
25	1.50	0.048	1.33
26	1.53	0.049	1.38
27	1.52	0.049	1.43
28	1.51	0.048	1.48
29	1.51	0.048	1.53
30	1.51	0.048	1.57
31	1.53	0.049	1.62
32	1.54	0.052	1.67
33	1.59	0.054	1.73
34	1.57	0.053	1.78
35	1.55	0.026	1.81
36	1.51	0.025	1.83
37	1.48	0.023	1.86
38	1.38	0.020	1.88
39	-0.14	-0.020	1.86



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density		Water Con Wet (%)	Water Con Dry (%)
				(g/cm ³)	VoidRatio		
** 0	1.23	0.39	81.58	2.12	4.43	68.19	214.40
** 8	1.58	0.88	68.53	2.78	2.18	44.50	80.17
** 38.5	1.53	0.82	69.67	2.70	2.30	46.59	87.22
averages	1.53	0.82	69.67	2.70	2.30	46.59	87.22

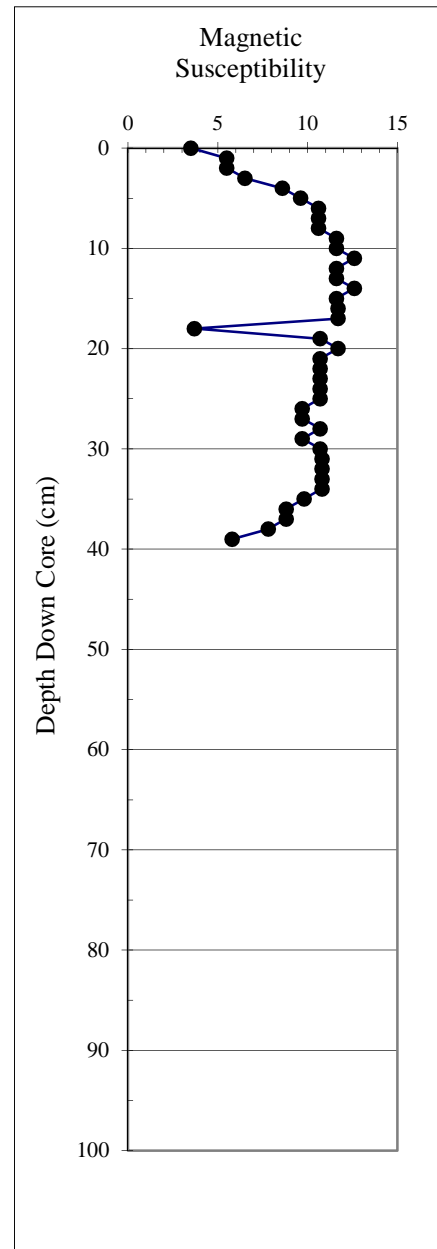
Cruise No: 2004801

Station: 30

Sample Type: Push Core

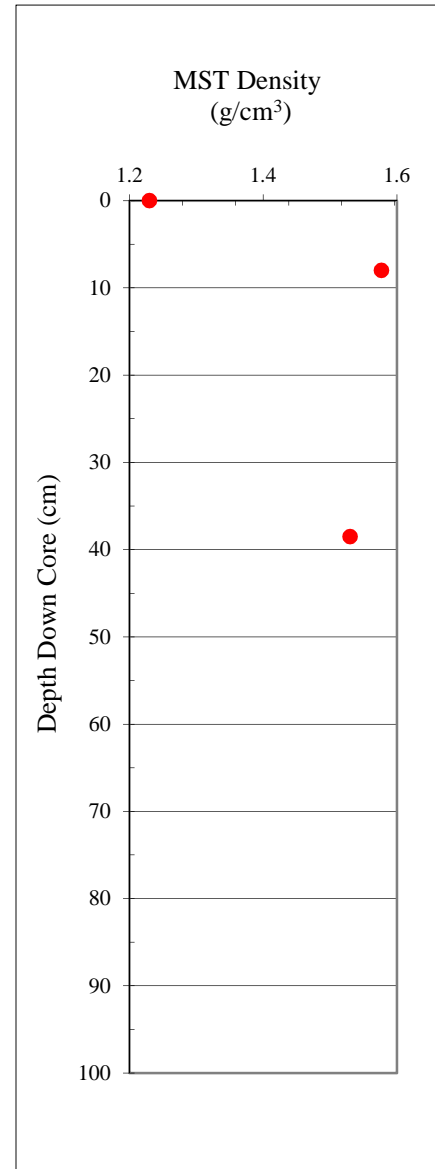
Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	3.5
1	5.5
2	5.5
3	6.5
4	8.6
5	9.6
6	10.6
7	10.6
8	10.6
9	11.6
10	11.6
11	12.6
12	11.6
13	11.6
14	12.6
15	11.6
16	11.7
17	11.7
18	3.7
19	10.7
20	11.7
21	10.7
22	10.7
23	10.7
24	10.7
25	10.7
26	9.7
27	9.7
28	10.7
29	9.7
30	10.7
31	10.8
32	10.8
33	10.8
34	10.8
35	9.8
36	8.8
37	8.8
38	7.8
39	5.8



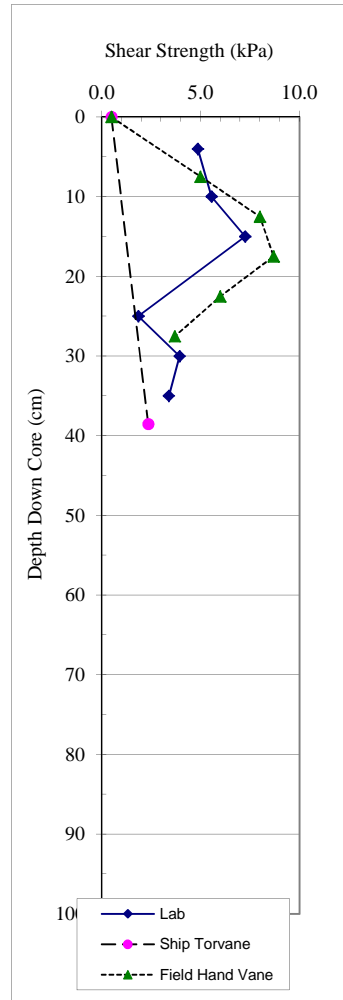
Cruise No: #REF!
 Station: #REF!
 Sample Type: #REF!
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.23	0.39	81.58	2.12	4.43	68.19	214.40
8	1.58	0.88	68.53	2.78	2.18	44.50	80.17
** 38.5	1.53	0.82	69.67	2.70	2.30	46.59	87.22
averages	1.53	0.82	69.67	2.70	2.30	46.59	87.22



Cruise No: 2004801
 Station: 30
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	Peak	Remoulded	Sensitivity
	Undrained Shear Shear (kPa)	Undrained Shear Shear (kPa)	
4	4.86	1.54	3.15
10	5.56		
15	7.25	2.78	2.61
25	1.85	1.70	1.09
30	3.94		
35	3.40	3.47	0.98
average	4.48		



Cruise No: 2004801
 Station: 30
 Sample Type: Push Core
 Data Type: Shipboard Torvane

Depth Down Core (cm)	Undrained Shear (kPa)	
	0	0.49
38.5	2.35	Grey1 2.5/10

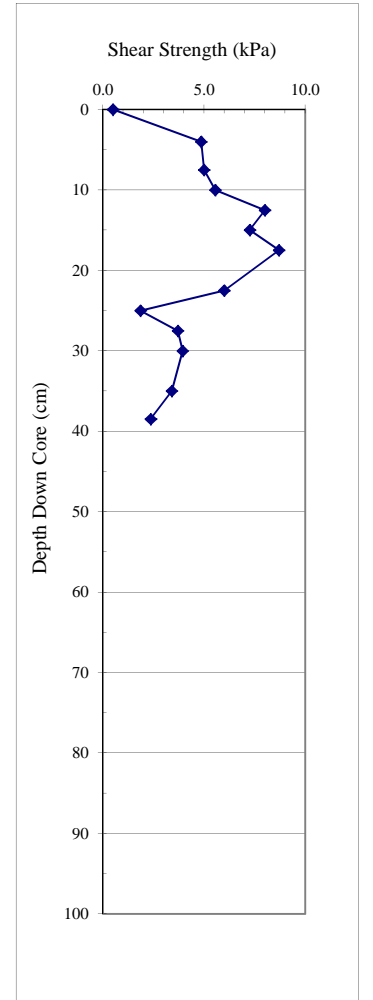
Cruise No: 2004801
 Station: 30
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	Peak Undrained Shear Shear (kPa)
	0.0
7.5	5.0
12.5	8.0
17.5	8.7
22.5	6.0
27.5	3.7
32.5	6.8
36.0	2.35

Organic rich layer softer

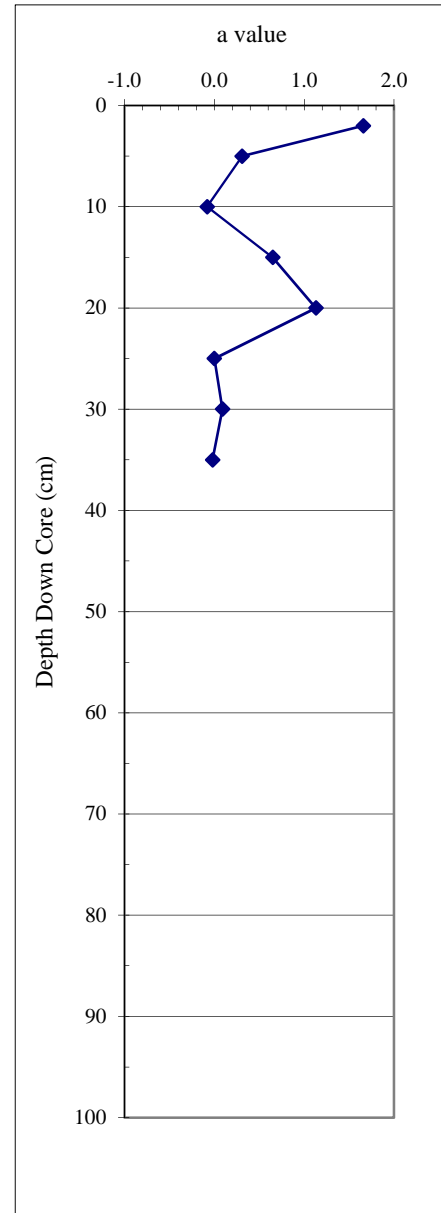
Composite

Depth Down Core (cm)	Peak	Remoulded	Sensitivity
	Undrained Shear Shear (kPa)	Undrained Shear Shear (kPa)	
0.0	0.5		
4.0	4.9	1.5	3.1
7.5	5.0		
10.0	5.6		
12.5	8.0		
15.0	7.3	2.8	2.6
17.5	8.7		
22.5	6.0		
25.0	1.9	1.7	1.1
27.5	3.7		
30.0	3.9		
35.0	3.4	3.5	1.0
38.5	2.4		
average:	4.70		



Cruise No: 2004801
Station: 30
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	1.66	38.78	6.63
5	0.31	35.13	3.08
10	-0.08	32.94	2.06
15	0.65	36.49	4.39
20	1.13	29.01	3.99
25	0.00	31.93	2.57
30	0.09	36.01	1.94
35	-0.02	31.71	2.26
average	<u>0.47</u>		



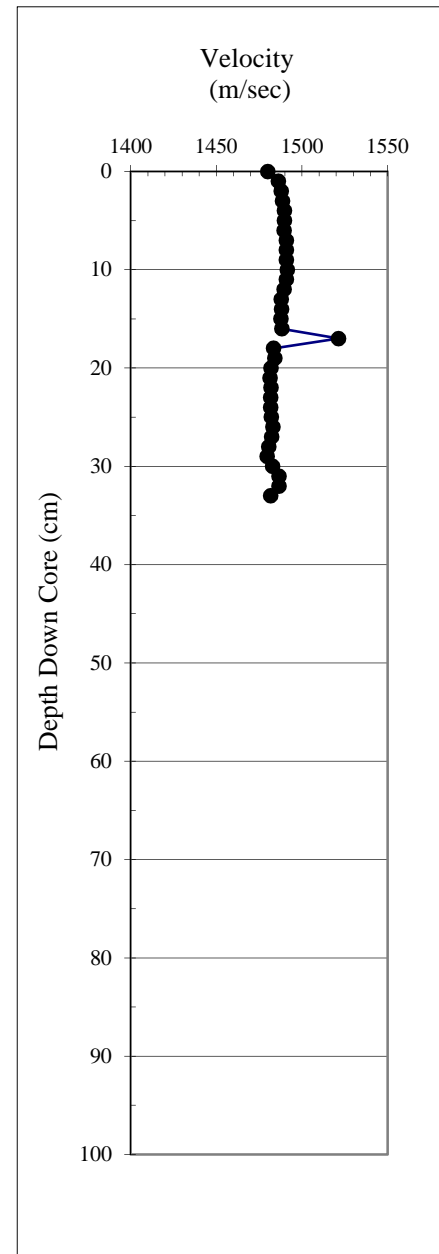
Cruise No: 2004801

Station: 30

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	
1	
2	
3	1480.02
4	1486.16
5	1487.94
6	1488.59
7	1489.81
8	1489.77
9	1489.60
10	1490.85
11	1490.83
12	1490.85
13	1491.49
14	1490.86
15	1489.67
16	1487.93
17	1488.19
18	1487.69
19	1488.32
20	1521.37
21	1483.49
22	1484.09
23	1481.92
24	1481.30
25	1481.96
26	1481.69
27	1481.69
28	1482.19
29	1483.06
30	1482.31
31	1480.56
32	1479.74
33	1482.78
34	1486.53
35	1486.53
36	1481.66
37	
38	
39	



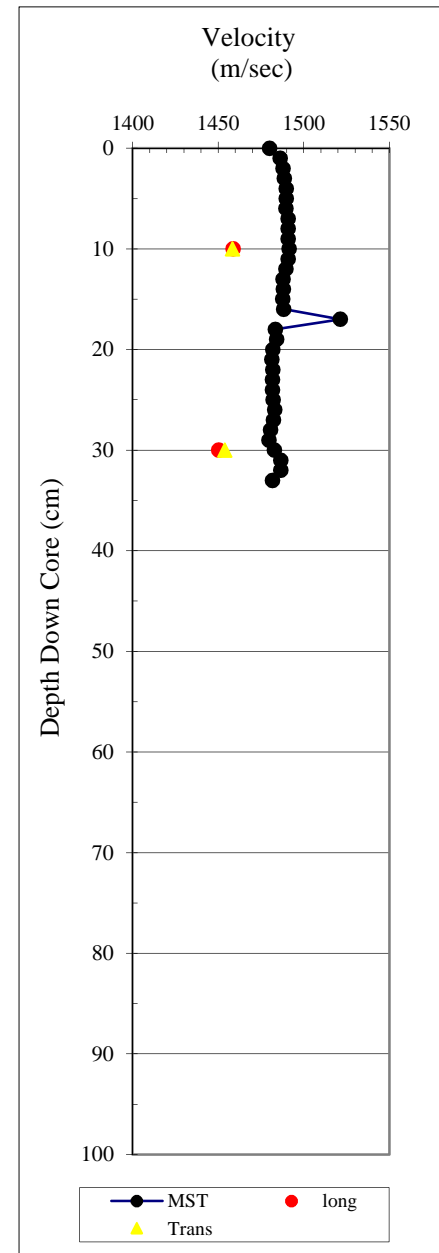
Cruise No: 2004801

Station: 30

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0			
1			
2			
3	1480.02		
4	1486.16		
5	1487.94		
6	1488.59		
7	1489.81		
8	1489.77		
9	1489.60		
10	1490.85	1458.67	1458.44
11	1490.83		
12	1490.85		
13	1491.49		
14	1490.86		
15	1489.67		
16	1487.93		
17	1488.19		
18	1487.69		
19	1488.32		
20	1521.37		
21	1483.49		
22	1484.09		
23	1481.92		
24	1481.30		
25	1481.96		
26	1481.69		
27	1481.69		
28	1482.19		
29	1483.06		
30	1482.31	1450.25	1453.9
31	1480.56		
32	1479.74		
33	1482.78		
34	1486.53		
35	1486.53		
36	1481.66		
37			
38			
39			



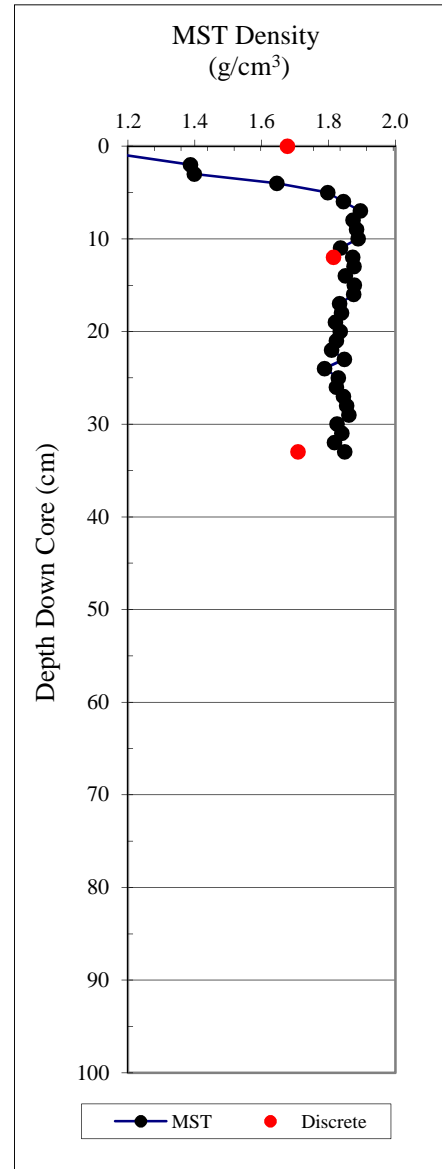
Cruise No: 2004801

Station: 33

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden</u>	
		<u>Pressure</u> (kPa)	Total
0	0.055		
1	1.197	0.025	0.03
2	1.387	0.031	0.06
3	1.398	0.042	0.10
4	1.645	0.059	0.16
5	1.798	0.073	0.23
6	1.845	0.081	0.31
7	1.896	0.084	0.40
8	1.874	0.084	0.48
9	1.884	0.084	0.56
10	1.889	0.083	0.65
11	1.836	0.082	0.73
12	1.873	0.082	0.81
13	1.876	0.083	0.89
14	1.850	0.082	0.98
15	1.877	0.083	1.06
16	1.875	0.083	1.14
17	1.833	0.081	1.22
18	1.839	0.079	1.30
19	1.821	0.079	1.38
20	1.835	0.079	1.46
21	1.824	0.078	1.54
22	1.810	0.078	1.62
23	1.848	0.078	1.70
24	1.788	0.077	1.77
25	1.830	0.078	1.85
26	1.824	0.079	1.93
27	1.845	0.080	2.01
28	1.855	0.081	2.09
29	1.862	0.081	2.17
30	1.825	0.080	2.25
31	1.840	0.079	2.33
32	1.818	0.079	2.41
33	1.849	0.040	2.45



Cruise No: 2004801

Station: 33

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density		Water Con Wet (%)	Water Con Dry (%)
				(g/cm ³)	VoidRatio		
** 0	1.68	1.06	60.28	2.67	1.52	36.81	58.24
** 12	1.82	1.26	54.54	2.77	1.20	30.76	44.43
** 33	1.71	1.16	53.87	2.51	1.17	32.29	47.68
averages	1.73	1.16	56.23	2.65	1.30	33.28	50.12

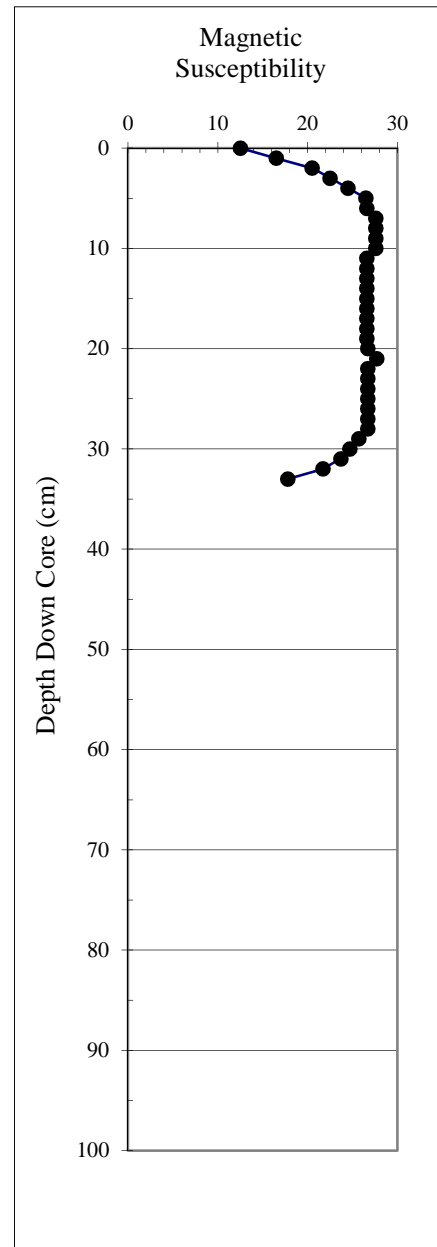
Cruise No: 2004801

Station: 33

Sample Type: Push Core

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	12.5
1	16.5
2	20.5
3	22.5
4	24.5
5	26.5
6	26.6
7	27.6
8	27.6
9	27.6
10	27.6
11	26.6
12	26.6
13	26.6
14	26.6
15	26.6
16	26.6
17	26.6
18	26.6
19	26.6
20	26.7
21	27.7
22	26.7
23	26.7
24	26.7
25	26.7
26	26.7
27	26.7
28	26.7
29	25.7
30	24.7
31	23.7
32	21.7
33	17.8



Cruise No: 2004801

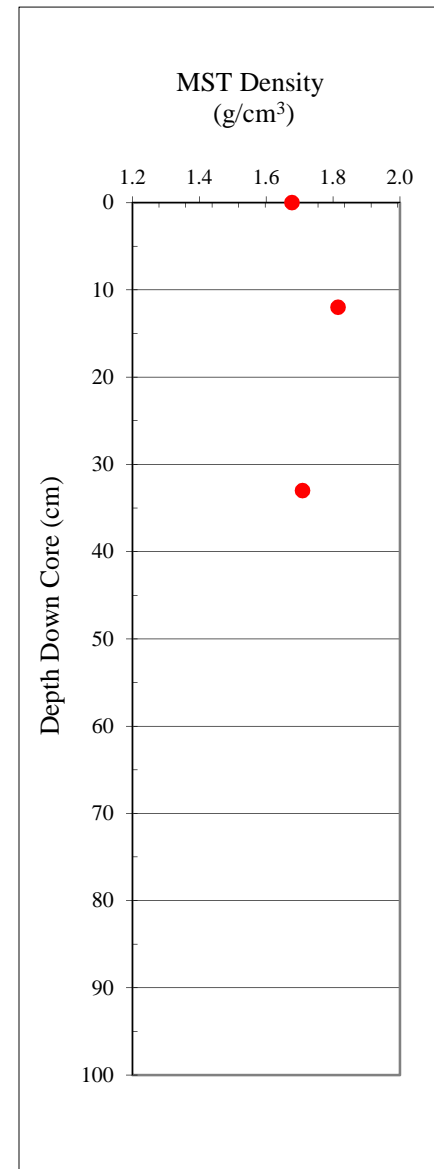
Station: 33

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

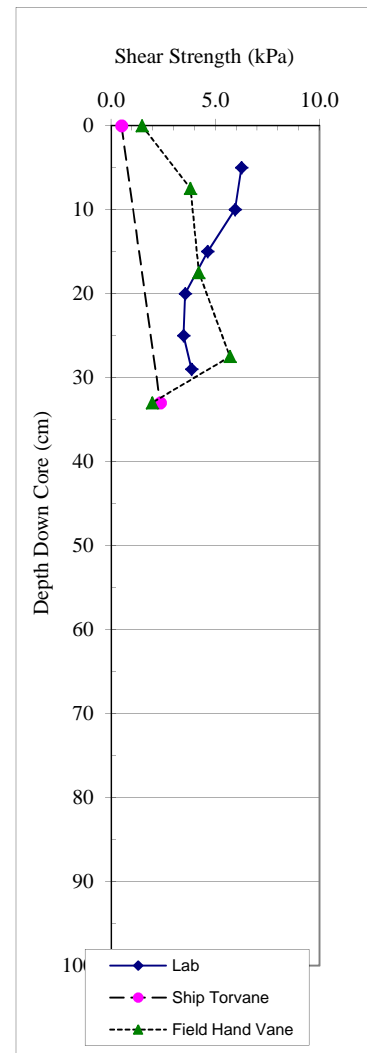
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.68	1.06	60.28	2.67	1.52	36.81	58.24
12	1.82	1.26	54.54	2.77	1.20	30.76	44.43
** 33	1.71	1.16	53.87	2.51	1.17	32.29	47.68
averages	1.73	1.16	56.23	2.65	1.30	33.28	50.12



Cruise No: 2004801
 Station: 33
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	Peak	Remoulded	Sensitivity
	Undrained Shear Shear (kPa)	Undrained Shear Shear (kPa)	
5	6.25003	3.78088	1.65
10	5.94139		
15	4.62965		
20	3.5494	2.70063	1.31
25	3.47224		
29	3.85805	2.62347	1.47
average	4.62		



Cruise No: 2004801
 Station: 33
 Sample Type: Push Core
 Data Type: Shipboard Torvane

Depth Down Core (cm)	Undrained Shear (kPa)	
	0.0	0.49
33.0	2.35	Grey1 2.5/10GY

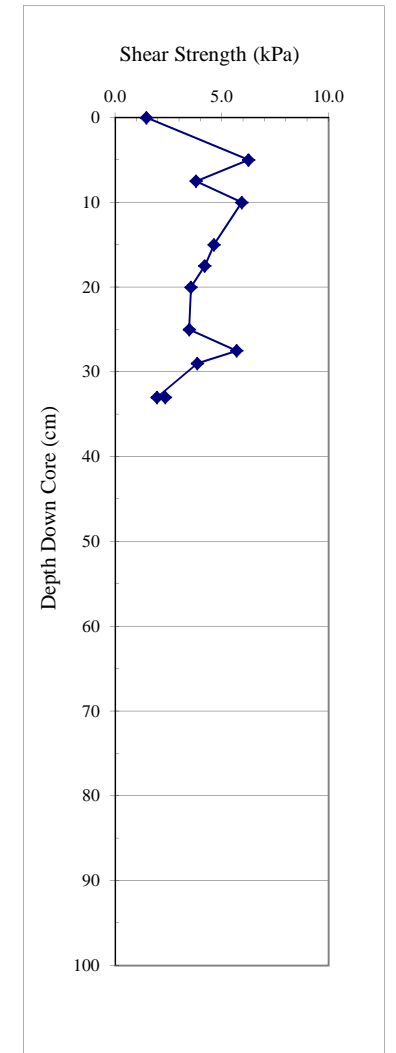
Cruise No: 2004801
 Station: 33
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	Peak Undrained Shear Shear (kPa)
	0.0
7.5	3.8
17.5	4.2
27.5	5.7
33.0	1.96

Composite

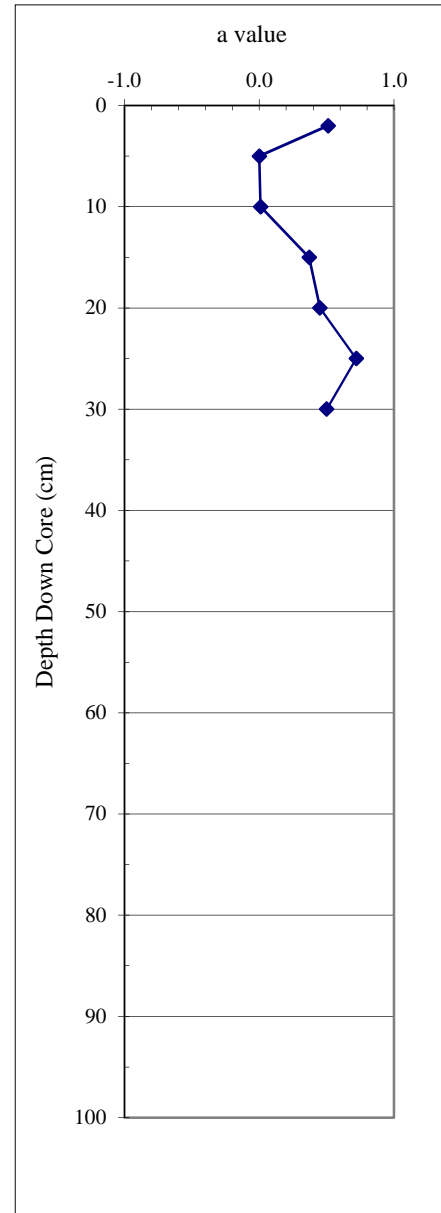
Depth Down Core (cm)	Peak	Remoulded	Sensitivity
	Undrained Shear Shear (kPa)	Undrained Shear Shear (kPa)	
0.0	1.5		
5.0	6.3	3.8	1.7
7.5	3.8		
10.0	5.9		
15.0	4.6		
17.5	4.2		
20.0	3.5	2.7	1.3
25.0	3.5		
27.5	5.7		
29.0	3.9	2.6	1.5
33.0	2.0		
33.0	2.4		

average: **3.93**



Cruise No: 2004801
Station: 33
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	0.51	40.19	3.43
5	0	39.6	1.71
10	0.01	36.45	2.26
15	0.37	36.44	3.14
20	0.45	42.38	2.15
25	0.72	40.67	3.49
30	0.5	44.02	2.49
average	<u>0.37</u>		



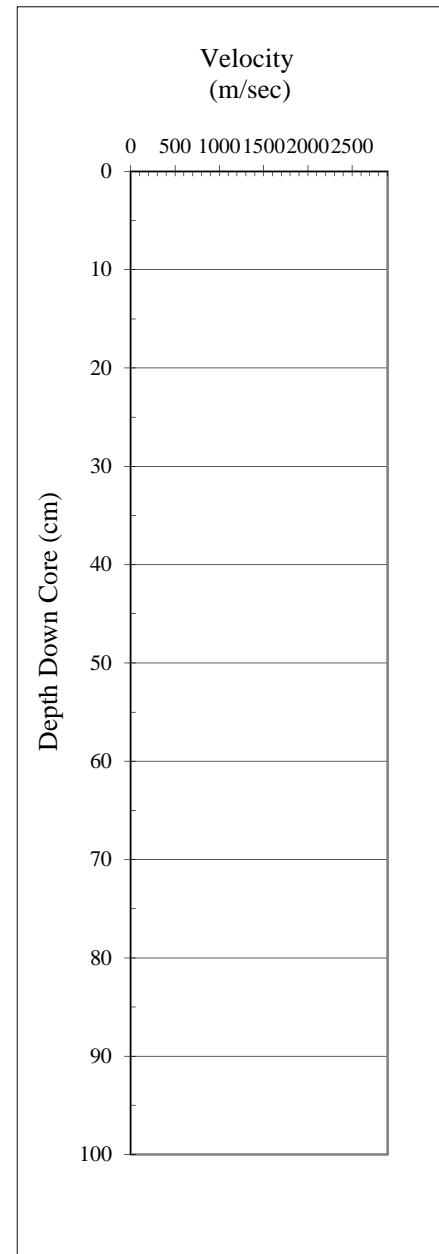
Cruise No: 2004801

Station: 33

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	0
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	#N/A
6	#N/A
7	#N/A
8	#N/A
9	#N/A
10	#N/A
11	#N/A
12	#N/A
13	#N/A
14	#N/A
15	#N/A
16	#N/A
17	#N/A
18	#N/A
19	#N/A
20	#N/A
21	#N/A
22	#N/A
23	#N/A
24	#N/A
25	#N/A
26	#N/A
27	#N/A
28	#N/A
29	#N/A
30	#N/A
31	#N/A
32	#N/A
33	#N/A



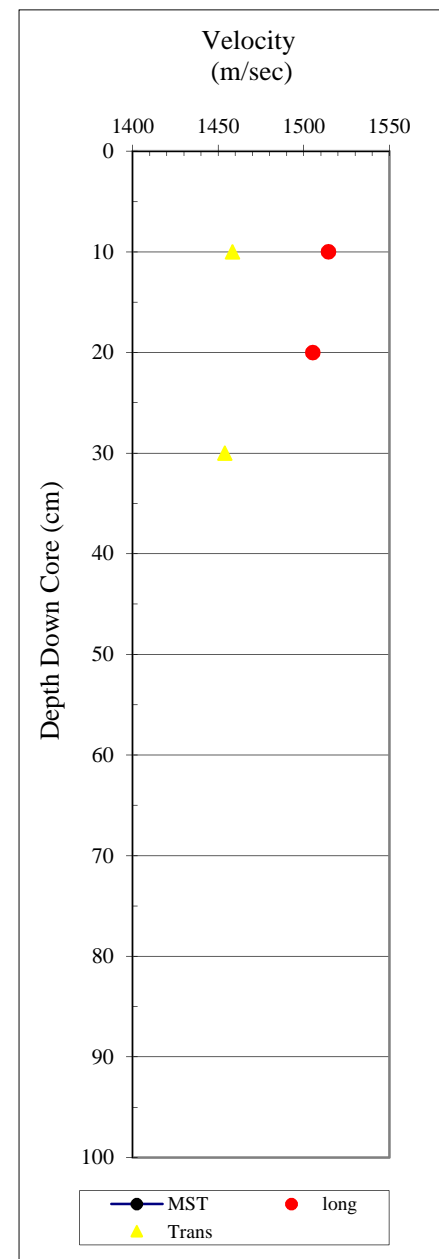
Cruise No: 2004801

Station: 33

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	0		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	#N/A		
6	#N/A		
7	#N/A		
8	#N/A		
9	#N/A		
10	#N/A	1514.38	1458.44
11	#N/A		
12	#N/A		
13	#N/A		
14	#N/A		
15	#N/A		
16	#N/A		
17	#N/A		
18	#N/A		
19	#N/A		
20	#N/A	1505.3	#N/A
21	#N/A		
22	#N/A		
23	#N/A		
24	#N/A		
25	#N/A		
26	#N/A		
27	#N/A		
28	#N/A		
29	#N/A		
30	#N/A	#N/A	1453.9
31	#N/A		
32	#N/A		
33	#N/A		



Cruise No: 2004801

Station: 34

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2004801

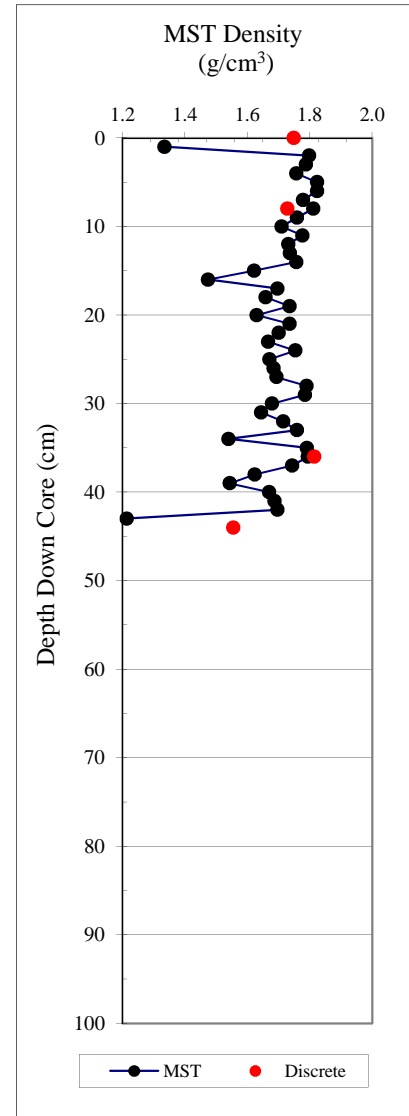
Station: 34

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden Pressure</u> (kPa)	
			Total
0	-0.187		
1	1.335	0.046	0.05
2	1.798	0.064	0.11
3	1.788	0.074	0.18
4	1.757	0.074	0.26
5	1.824	0.077	0.34
6	1.823	0.077	0.41
7	1.779	0.076	0.49
8	1.811	0.075	0.56
9	1.759	0.072	0.64
10	1.710	0.070	0.71
11	1.777	0.071	0.78
12	1.732	0.071	0.85
13	1.736	0.070	0.92
14	1.757	0.068	0.99
15	1.622	0.058	1.04
16	1.475	0.053	1.10
17	1.697	0.060	1.16
18	1.658	0.065	1.22
19	1.735	0.065	1.29
20	1.631	0.065	1.35
21	1.736	0.066	1.42
22	1.701	0.066	1.49
23	1.666	0.066	1.55
24	1.754	0.067	1.62
25	1.671	0.066	1.68
26	1.684	0.065	1.75
27	1.693	0.068	1.82
28	1.790	0.073	1.89
29	1.784	0.072	1.96
30	1.680	0.066	2.03
31	1.644	0.063	2.09
32	1.715	0.067	2.16
33	1.759	0.066	2.22
34	1.540	0.062	2.29
35	1.791	0.069	2.36
36	1.794	0.074	2.43
37	1.744	0.037	2.47
38	1.624	0.032	2.50
39	1.544	0.027	2.53
40	1.670	0.029	2.55
41	1.687	0.032	2.59
42	1.697	0.033	2.62
43	1.214	0.021	2.64
44	-0.167	-0.025	2.62



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.75	1.18	55.30	2.64	1.24	32.39	47.90
8	1.73	1.13	58.32	2.71	1.40	34.56	52.81
** 36	1.81	1.24	56.23	2.83	1.28	31.74	46.50
** 44	1.55	1.00	54.56	2.19	1.20	35.93	56.09
averages	1.71	1.14	56.10	2.59	1.28	33.66	50.82

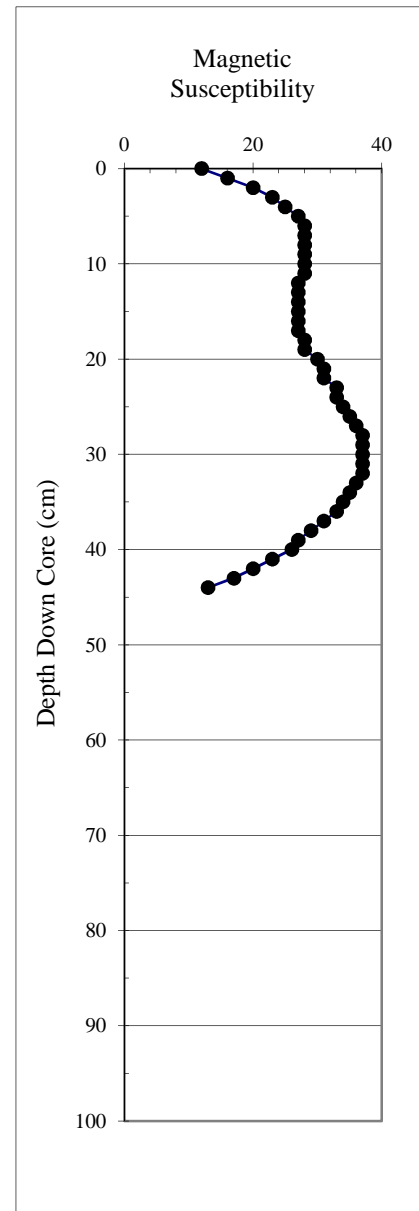
Cruise No: 2004801

Station: 34

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic suscibility

Depth (cm)	MST Magnetic Suscibility
0	12
1	16
2	20
3	23
4	25
5	27
6	28
7	28
8	28
9	28
10	28
11	28
12	27
13	27
14	27
15	27
16	27
17	27
18	28
19	28
20	30
21	31
22	31
23	33
24	33
25	34
26	35
27	36
28	37
29	37
30	37
31	37
32	37
33	36
34	35
35	34
36	33
37	31
38	29
39	27
40	26
41	23
42	20
43	17
44	13



Cruise No: 2004801

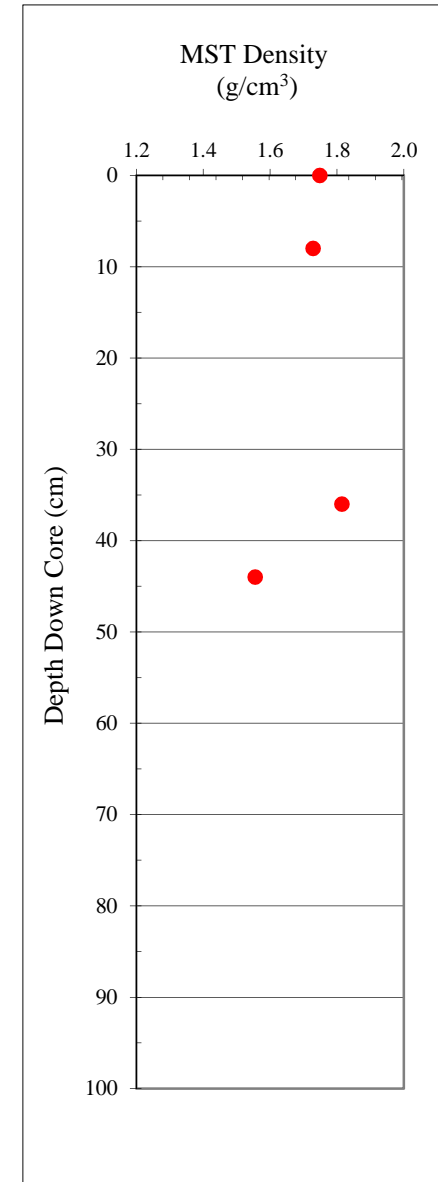
Station: 34

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

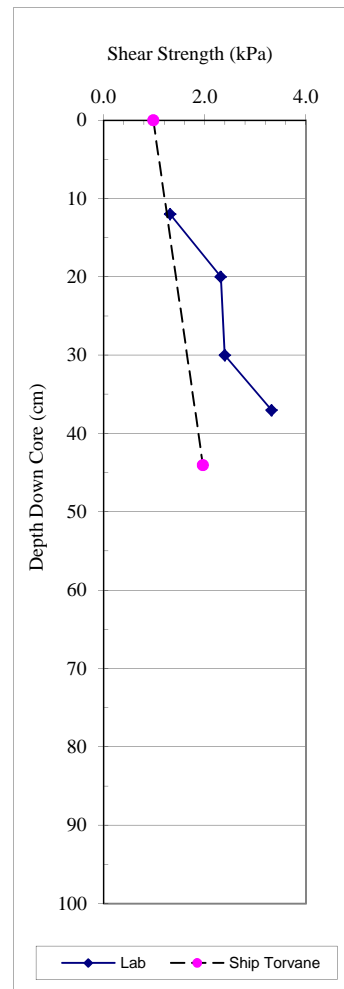
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.75	1.18	55.30	2.64	1.24	32.39	47.90
8	1.73	1.13	58.32	2.71	1.40	34.56	52.81
36	1.81	1.24	56.23	2.83	1.28	31.74	46.50
** 44	1.55	1.00	54.56	2.19	1.20	35.93	56.09
averages	1.71	1.14	56.10	2.59	1.28	33.66	50.82



Cruise No: 2004801
 Station: 34
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
12	1.31	0.39	3.40
20	2.31		
30	2.39		
37	3.32	2.24	1.48



Cruise No: 2004801
 Station: 34
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

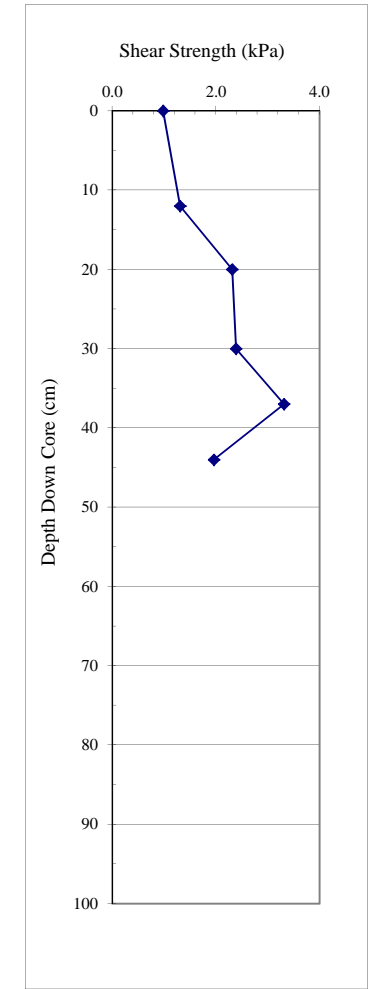
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u>	2.5Y 3/3 Grey1 2.5/5GY
	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>	
0.0	0.98	
44.0	1.96	

Cruise No: 2004801
 Station: 34
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
0.0	0.98		
12	1.31	0.386	3.400
20	2.31		
30	2.39		
37	3.32	2.238	1.483
44	1.96		
average:		2.05	



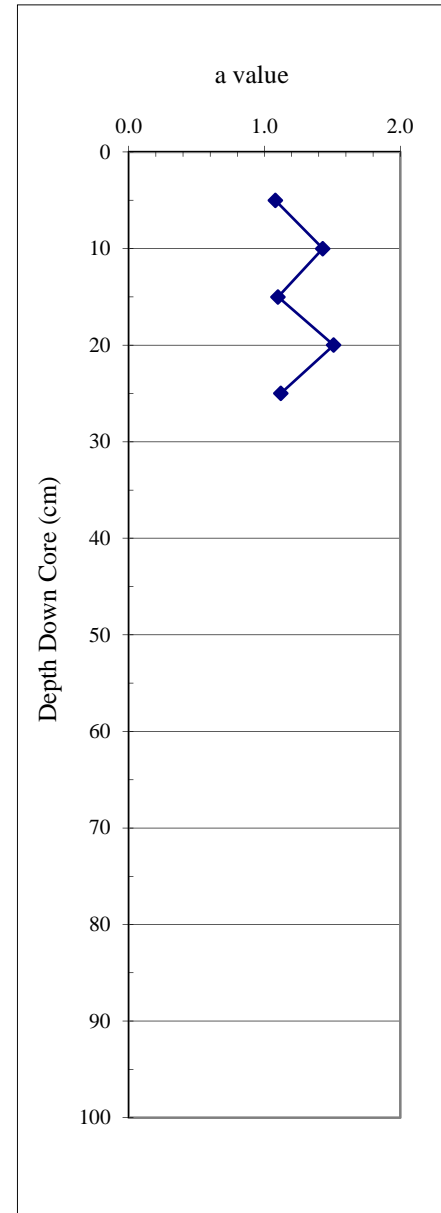
Cruise No: 2004801

Station: 34

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	1.08	38.65	4.45
10	1.43	40.25	4.98
15	1.1	38.87	4.55
20	1.51	39.69	5.3
25	1.12	39.05	4.48
average	1.25		



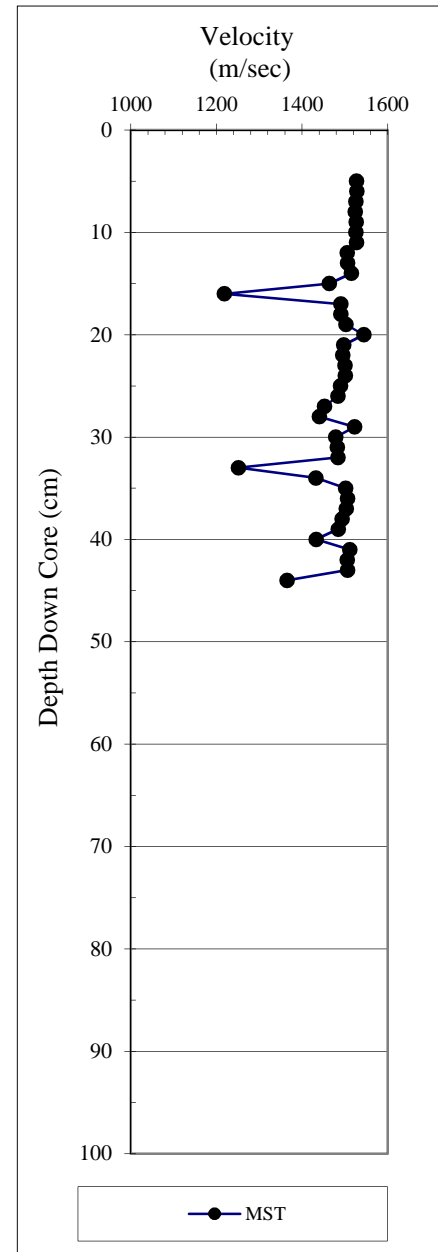
Cruise No: 2004801

Station: 34

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	1527.6
6	1527.8
7	1526.02
8	1524
9	1526.24
10	1525.91
11	1527.24
12	1505.47
13	1506.05
14	1515.05
15	1463.84
16	1218.7
17	1490.52
18	1490.49
19	1502.72
20	1544.32
21	1497.38
22	1495.49
23	1500.11
24	1501.1
25	1489.97
26	1483.66
27	1452.35
28	1440.86
29	1523.19
30	1478.93
31	1482.55
32	1484.28
33	1251.14
34	1432.4
35	1501.57
36	1506.74
37	1503.29
38	1493.97
39	1484.49
40	1432.92
41	1511.33
42	1505.8
43	1506.04
44	1365.17



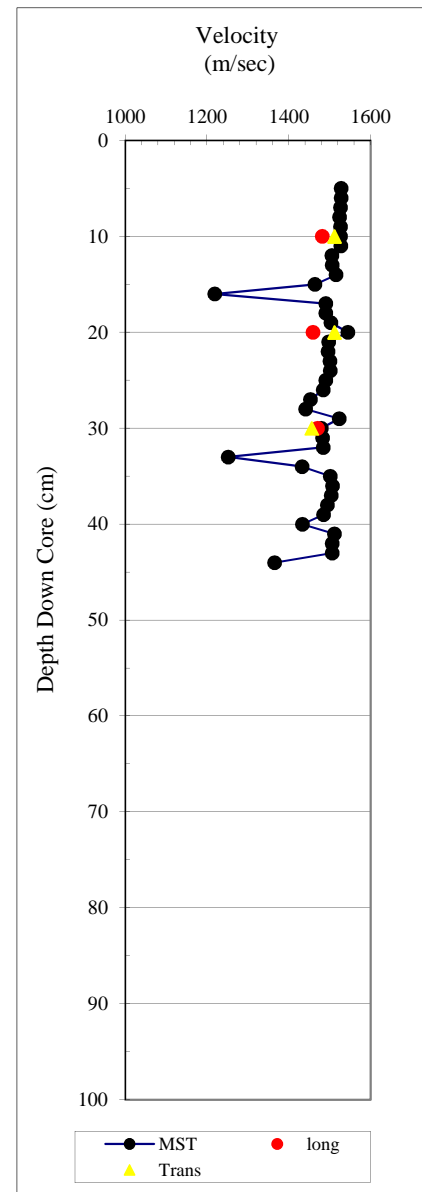
Cruise No: 2004801

Station: 34

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0			
1			
2			
3			
4			
5	1527.6		
6	1527.8		
7	1526.02		
8	1524		
9	1526.24		
10	1525.91	1481.38	1511.77
11	1527.24		
12	1505.47		
13	1506.05		
14	1515.05		
15	1463.84		
16	1218.7		
17	1490.52		
18	1490.49		
19	1502.72		
20	1544.32	1458.56	1511.77
21	1497.38		
22	1495.49		
23	1500.11		
24	1501.1		
25	1489.97		
26	1483.66		
27	1452.35		
28	1440.86		
29	1523.19		
30	1478.93	1469.88	1455.59
31	1482.55		
32	1484.28		
33	1251.14		
34	1432.4		
35	1501.57		
36	1506.74		
37	1503.29		
38	1493.97		
39	1484.49		
40	1432.92		
41	1511.33		
42	1505.8		
43	1506.04		
44	1365.17		



Cruise No: 2004801

Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2004801

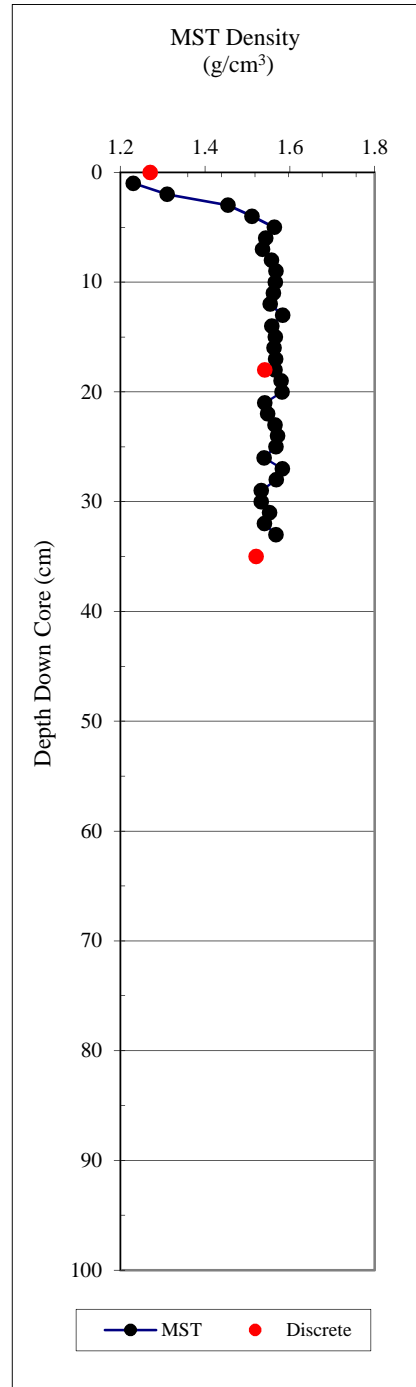
Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	Bulk Density (g/cm ³)	<u>Overburden Pressure</u> (kPa)	Total
0	1.13		
1	1.23	0.030	0.03
2	1.31	0.030	0.06
3	1.45	0.040	0.10
4	1.51	0.048	0.15
5	1.56	0.051	0.20
6	1.54	0.051	0.25
7	1.54	0.051	0.30
8	1.56	0.052	0.35
9	1.57	0.053	0.41
10	1.57	0.053	0.46
11	1.56	0.053	0.51
12	1.55	0.053	0.56
13	1.58	0.053	0.62
14	1.56	0.053	0.67
15	1.57	0.053	0.72
16	1.56	0.053	0.78
17	1.57	0.053	0.83
18	1.56	0.053	0.88
19	1.58	0.054	0.94
20	1.58	0.054	0.99
21	1.54	0.052	1.04
22	1.55	0.052	1.09
23	1.56	0.053	1.15
24	1.57	0.053	1.20
25	1.57	0.053	1.25
26	1.54	0.052	1.31
27	1.58	0.053	1.36
28	1.57	0.053	1.41
29	1.53	0.051	1.46
30	1.53	0.050	1.51
31	1.55	0.051	1.56
32	1.54	0.052	1.62
33	1.57	0.036	1.65
34	0.89	-0.026	1.63
35	-0.32	-0.036	1.59



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.27	0.45	80.10	2.26	4.03	64.56	182.16
18	1.54	0.8063	71.70	2.85	2.53	47.66	91.06
35	1.52	0.79	70.88	2.73	2.43	47.73	91.32
averages	1.44	0.68	74.23	2.61	3.00	53.32	121.51

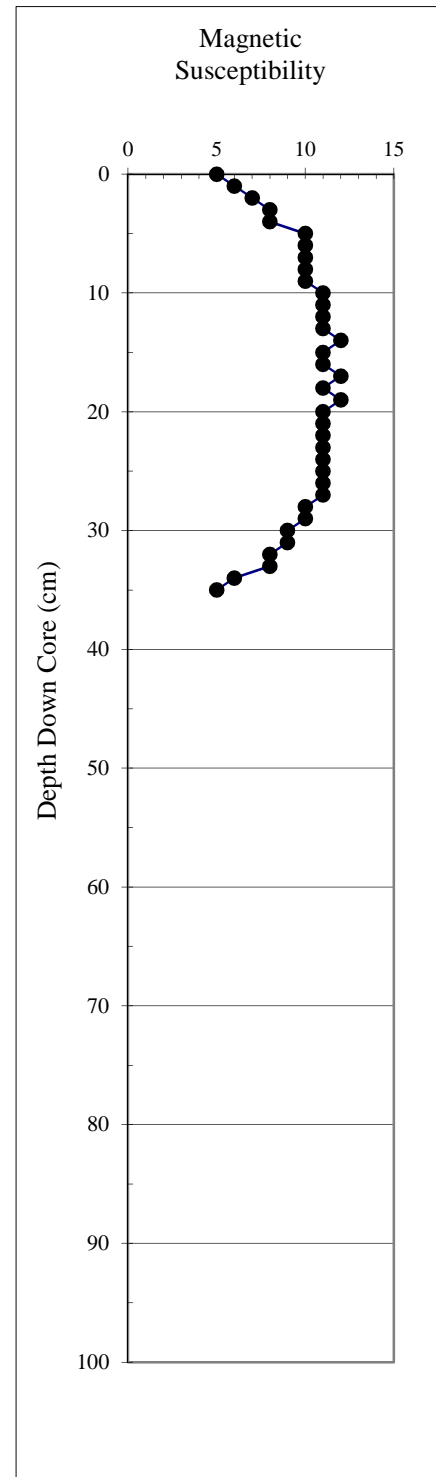
Cruise No: 2004801

Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Suscibility
0	5
1	6
2	7
3	8
4	8
5	10
6	10
7	10
8	10
9	10
10	11
11	11
12	11
13	11
14	12
15	11
16	11
17	12
18	11
19	12
20	11
21	11
22	11
23	11
24	11
25	11
26	11
27	11
28	10
29	10
30	9
31	9
32	8
33	8
34	6
35	5



Cruise No: 2004801

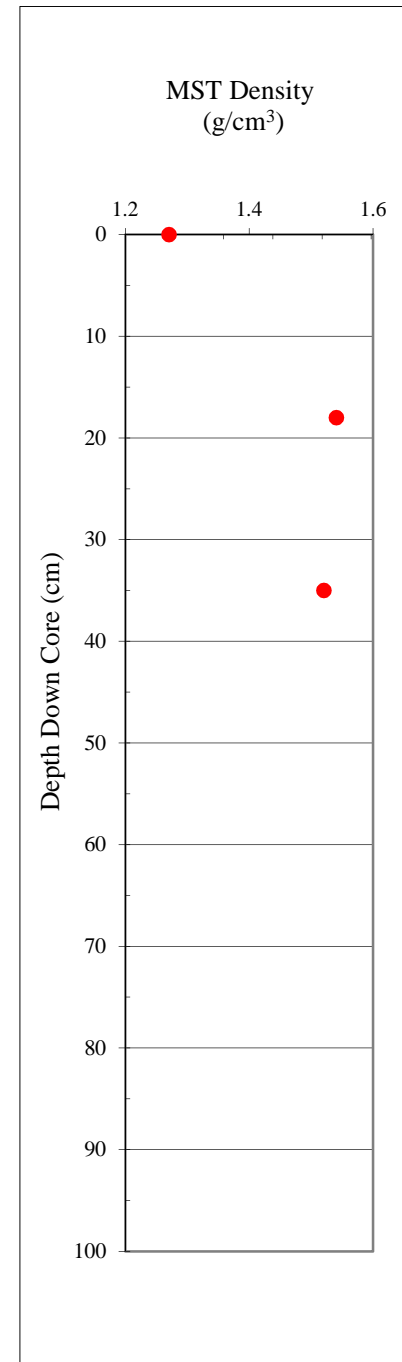
Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.27	0.45	80.10	2.26	4.03	64.56	182.16
18	1.54	0.8063	71.70	2.85	2.53	47.66	91.06
** 35	1.52	0.79	70.88	2.73	2.43	47.73	91.32
averages	1.44	0.68	74.23	2.61	3.00	53.32	121.51



Cruise No: #REF!

Station: #REF!

Sample Type: #REF!

Data Type: Shipboard Torvane

Cruise No: #REF!

Station: #REF!

Sample Type: #REF!

Data Type: Shipboard Field HandVane

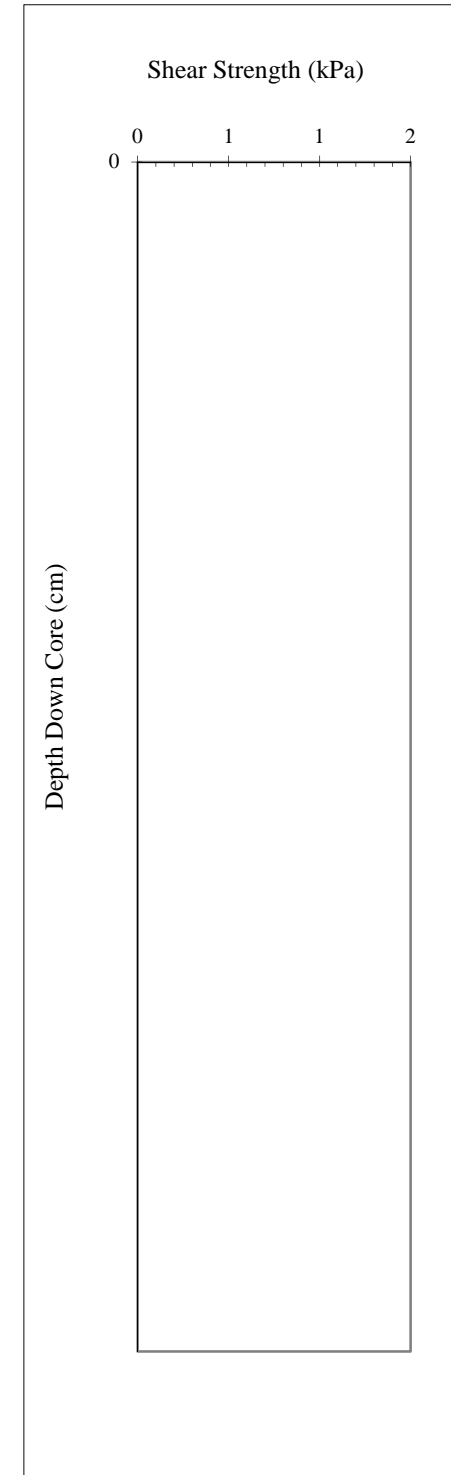
<u>Depth</u> <u>Down Core</u> <u>(cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>	
0	0.59	2.5Y 3/3
35	4.90	Grey1 2.5/10

<u>Depth</u> <u>Down Core</u> <u>(cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
7.50	7.0
17.50	10.1
27.5	9.2
35.00	7.2

Composite

<u>Depth</u> <u>Down Core</u> <u>(cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
0.0	0.49		
5	3.78	1.00	3.77
7.50	7.0		
10	7.48		
15	7.79	4.86	1.60
17.50	10.1		
20	7.64		
25	8.64	5.32	1.62
27.5	9.2		
30	6.56		
35	4.90		

average **6.69**



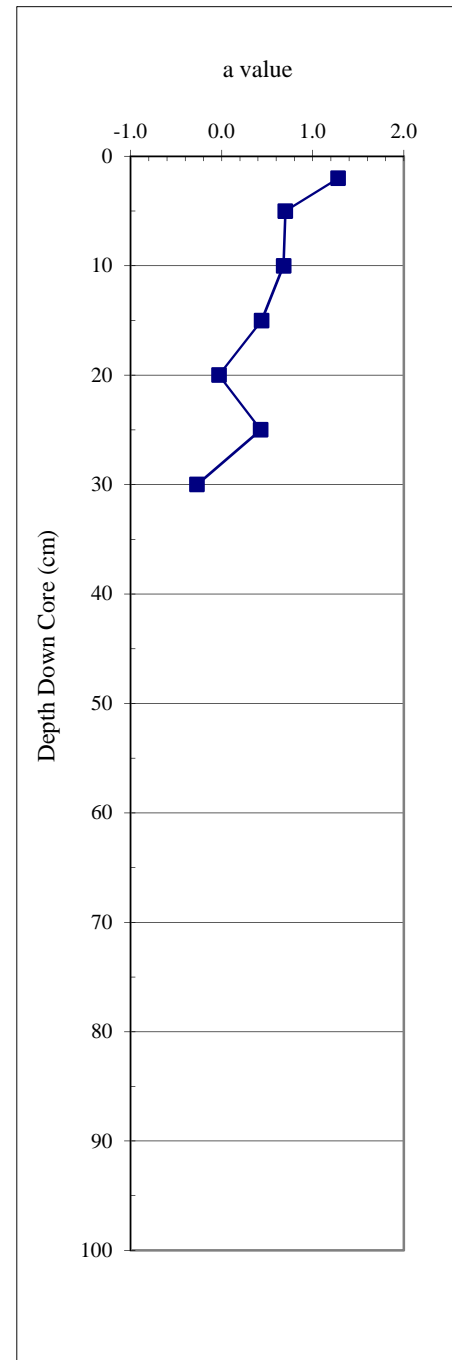
Cruise No: 2004801

Station: 37

Sample Type: Push Core

Data Type: Colour data

<u>Depth</u> <u>Down Core</u> <u>(cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
2	1.28	37.76	5.52
5	0.70	35.91	4.24
10	0.68	34.04	4.47
15	0.44	31.85	4.2
20	-0.03	32.17	2.32
25	0.43	34.47	3.99
30	-0.27	35.03	1.6
average	<u>0.46</u>		



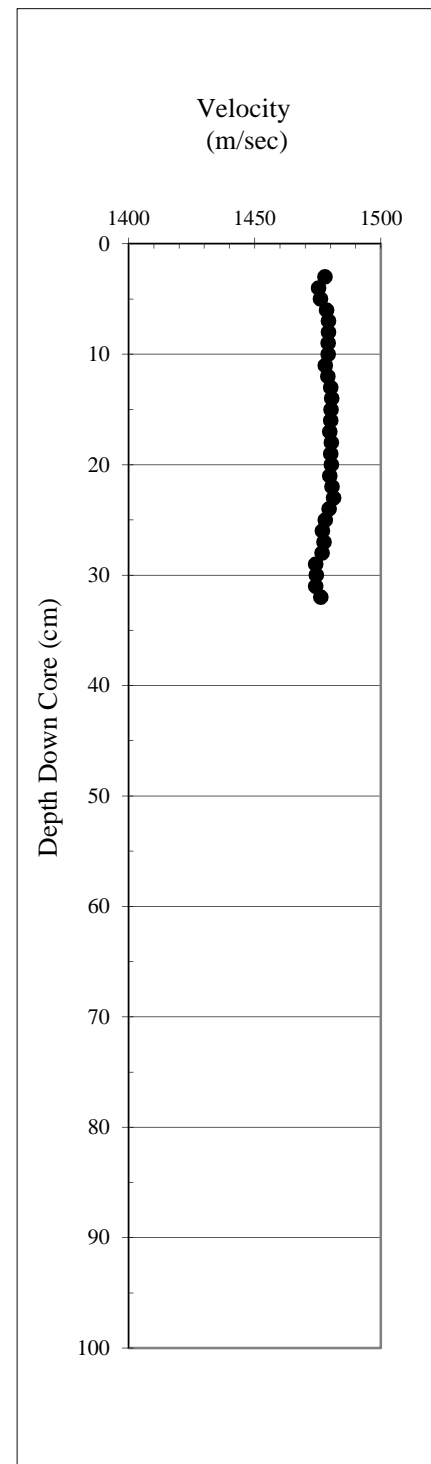
Cruise No: 2004801

Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	1477.78
4	1475.34
5	1476.07
6	1478.50
7	1479.21
8	1479.29
9	1479.07
10	1479.14
11	1478.00
12	1479.04
13	1480.11
14	1480.53
15	1480.22
16	1480.10
17	1479.78
18	1480.44
19	1480.15
20	1480.33
21	1479.78
22	1480.57
23	1481.33
24	1479.53
25	1477.91
26	1476.78
27	1477.5
28	1476.73
29	1474.11
30	1474.41
31	1474.19
32	1476.20
33	#N/A
34	#N/A
35	#N/A



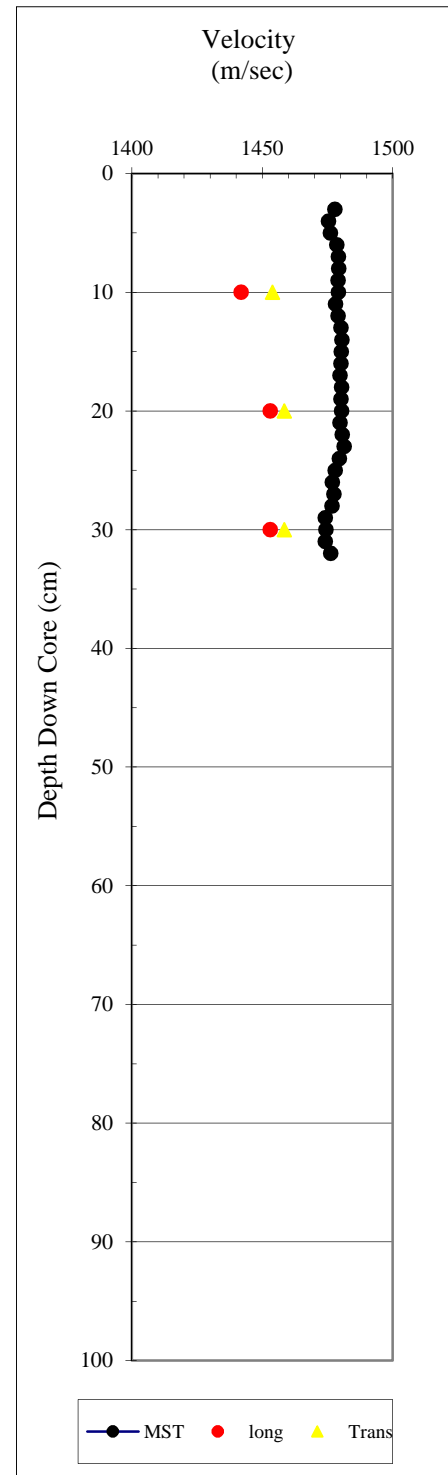
Cruise No: 2004801

Station: 37

Sample Type: Push Core

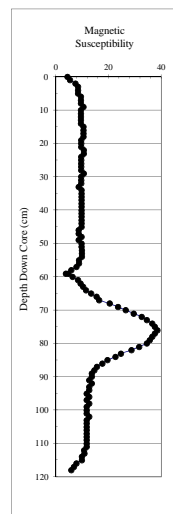
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	1477.78		
4	1475.34		
5	1476.07		
6	1478.50		
7	1479.21		
8	1479.29		
9	1479.07		
10	1479.14	1441.93	1453.9
11	1478.00		
12	1479.04		
13	1480.11		
14	1480.53		
15	1480.22		
16	1480.10		
17	1479.78		
18	1480.44		
19	1480.15		
20	1480.33	1453.05	1458.44
21	1479.78		
22	1480.57		
23	1481.33		
24	1479.53		
25	1477.91		
26	1476.78		
27	1477.5		
28	1476.73		
29	1474.11		
30	1474.41	1453.05	1458.44
31	1474.19		
32	1476.20		
33	#N/A		
34	#N/A		
35	#N/A		



Cruise No: 200401
 Station: 21
 Sample Type: Gravity Core
 Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	4.4
1	5.4
2	7.4
3	8.4
4	8.4
5	8.4
6	9.5
7	9.5
8	9.5
9	10.5
10	9.5
11	9.5
12	9.5
13	9.5
14	9.5
15	10.5
16	10.5
17	10.5
18	10.5
19	9.6
20	9.6
21	9.6
22	10.6
23	10.6
24	9.6
25	9.6
26	9.6
27	9.6
28	9.6
29	10.6
30	9.6
31	9.6
32	9.6
33	8.7
34	9.7
35	9.7
36	9.7
37	9.7
38	9.7
39	9.7
40	9.7
41	9.7
42	9.7
43	9.7
44	9.7
45	9.7
46	8.7
47	8.7
48	9.7
49	8.7
50	9.7
51	9.7
52	9.8
53	9.8
54	9.8
55	8.8
56	8.8
57	7.8
58	5.8
59	4.8
59	3.8
60	6.4
61	8.4
62	9.4
63	10.4
64	11.4
65	13.4
66	15.4
67	16.4
68	20.4
69	23.5
70	26.5
71	29.5
72	32.5
73	34.5
74	36.5
75	37.5
76	38.5
77	37.5
78	36.5
79	35.5
80	34.5
81	31.5
82	28.6
83	24.6
84	22.6
85	19.6
86	17.6
87	15.6
88	14.6
89	13.6
90	13.6
91	12.6
92	13.6
93	12.6
94	12.6
95	11.7
96	12.7
97	11.7
98	12.7
99	11.7
100	11.7
101	11.7
102	12.7
103	11.7
104	11.7
105	11.7
106	11.7
107	11.7
108	11.7
109	11.7
110	11.7
111	11.7
112	10.7
113	10.8
114	9.8
115	9.8
116	7.8
117	6.8
118	5.8



Cruise No: 2004801

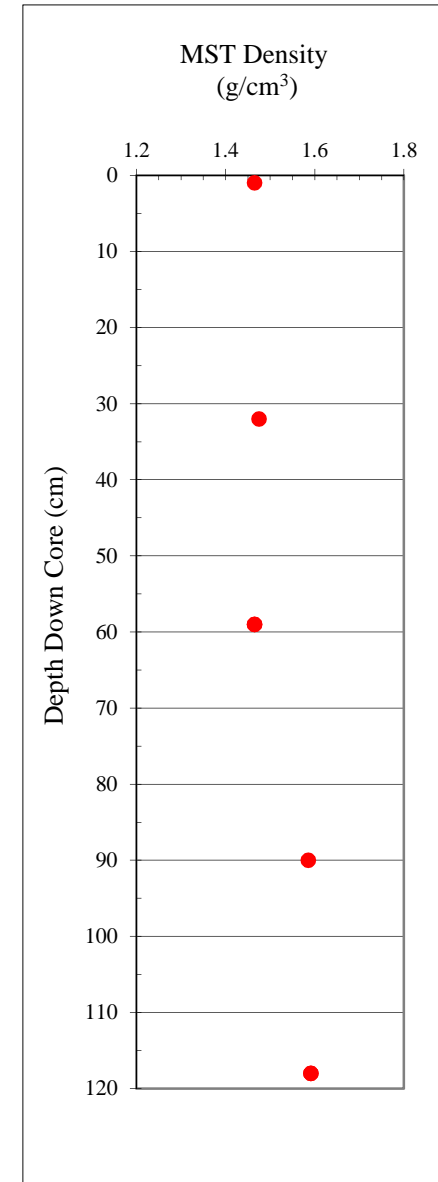
Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

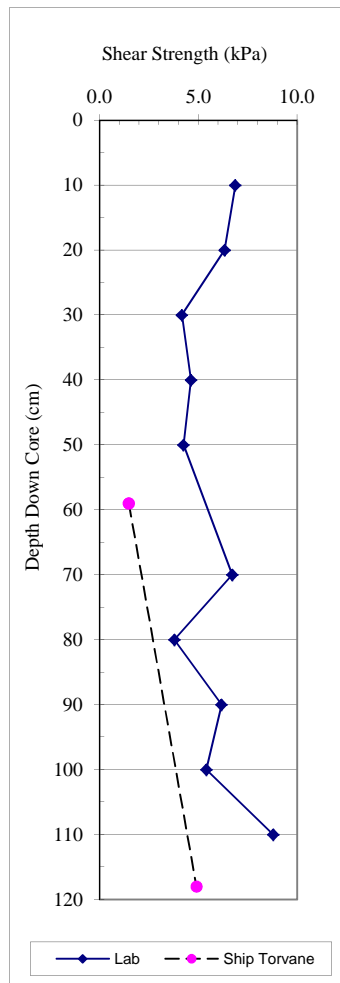
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.46	0.71	74.09		2.86		107.45
32	1.48	0.72	73.62	2.73	2.79	51.10	104.51
59	1.46	0.71	74.09	2.72	2.86	51.80	107.45
59	1.46	0.71	74.09	2.72	2.86	51.80	107.45
90	1.59	0.89	68.03	2.78	2.13	43.94	78.38
118	1.59	0.90	67.52	2.77	2.08	43.45	76.85
** 118	1.59	0.90	67.52		2.08		76.85
averages	1.52	0.78	71.47	2.75	2.54	48.42	94.93



Cruise No: 2004801
 Station: 38
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
10	6.867	3.241	2.12
20	6.327		
30	4.167		
40	4.630		
50	4.244	2.932	1.45
70	6.713	3.549	1.89
80	3.781		
90	6.173		
100	5.401		
110	8.796	1.312	6.71
average	5.710		



Cruise No: 2004801
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

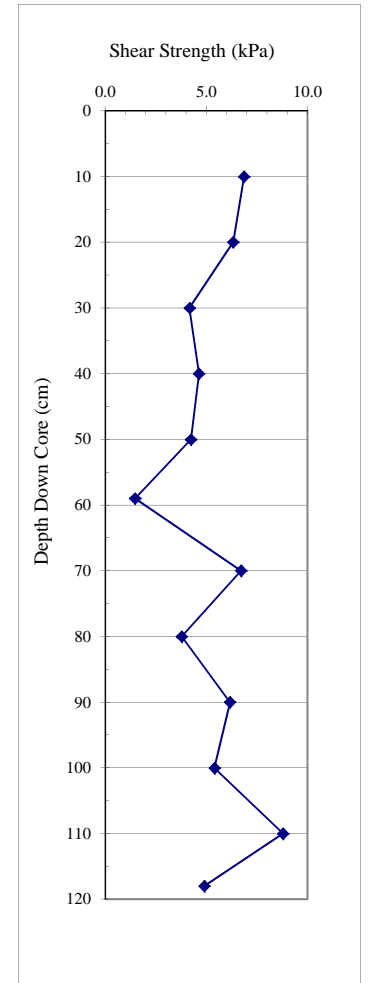
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u>
	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
59	1.471
59	1.471
118	4.904

Cruise No: 2004801
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
10.0	6.867	3.2	2.1
20.0	6.327		
30.0	4.167		
40.0	4.630		
50.0	4.244	2.9	1.4
59	1.471		
70.0	6.713	3.5	1.9
80.0	3.781		
90.0	6.173		
100.0	5.401		
110.0	8.796	1.3	6.7
118.0	4.904		



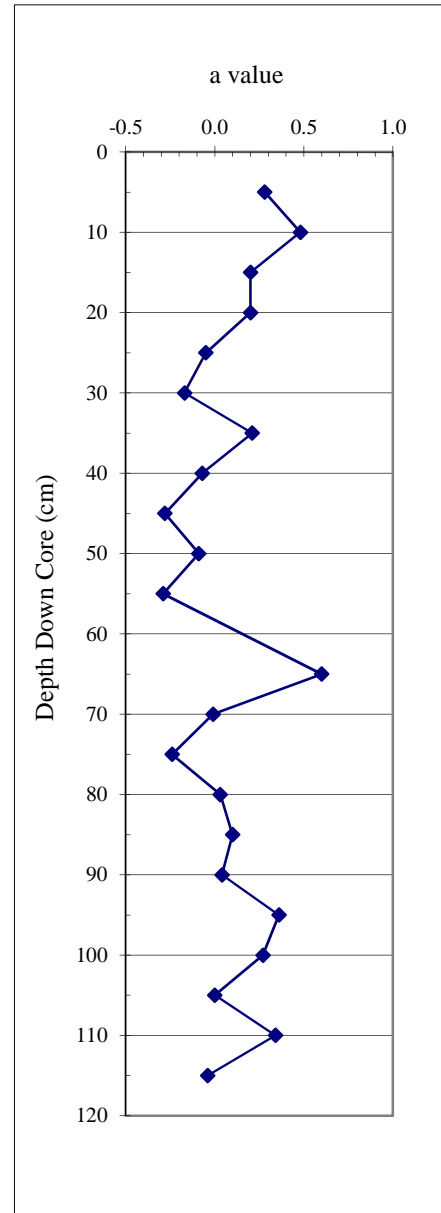
Cruise No: 2004801

Station: 38

Sample Type: Gravity Core

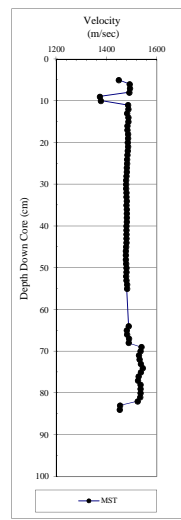
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	0.28	35.41	3.34
10	0.48	34.69	4.28
15	0.2	33.53	3.26
20	0.2	34.74	2.98
25	-0.05	39.35	1.9
30	-0.17	38.04	1.48
35	0.21	33.75	3.05
40	-0.07	34.51	2.24
45	-0.28	30.84	1.7
50	-0.09	35.67	1.92
55	-0.29	30.49	1.49
65	0.6	39.92	3.28
70	-0.01	32.53	2.27
75	-0.24	34.53	1.43
80	0.03	34.57	2.08
85	0.1	32.45	2.6
90	0.04	32.61	2.08
95	0.36	35.14	3.33
100	0.27	39.74	2.58
105	0	37.88	1.87
110	0.34	37.56	2.99
115	-0.04	32.42	2.11



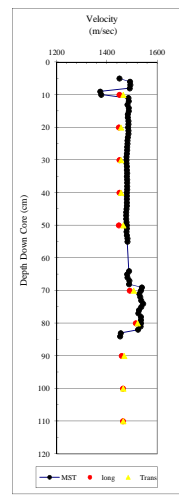
Cruise No: 2004801
 Station: 22
 Sample Type: Gravity Core
 Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	1449.04
6	1491.96
7	1493.24
8	1490.33
9	1372.77
10	1377.75
11	1485.1
12	1486.19
13	1481.87
14	1487.05
15	1486.1
16	1482.29
17	1483.32
18	1485.59
19	1485.04
20	1484.03
21	1485.82
22	1484.63
23	1482.15
24	1481.3
25	1481.18
26	1480.33
27	1479.82
28	1478.63
29	1477.72
30	1477.45
31	1478.17
32	1478.42
33	1479.26
34	1479.75
35	1479.32
36	1479.95
37	1479.72
38	1479.87
39	1479.64
40	1478.56
41	1478.72
42	1478.46
43	1478.99
44	1478.66
45	1477.76
46	1476.93
47	1475.97
48	1475.78
49	1477.47
50	1478.53
51	1478.47
52	1477.57
53	1479.35
54	1481.09
55	1480.91
56	#N/A
57	#N/A
58	#N/A
59	#N/A
59	#N/A
60	#N/A
61	#N/A
62	#N/A
63	#N/A
64	1487.97
65	1480.01
66	1481.33
67	1489.1
68	1487.78
69	1538.19
70	1535.48
71	1528.92
72	1531.69
73	1536.22
74	1543.75
75	1536.54
76	1527.66
77	1524.77
78	1535.38
79	1534.93
80	1535
81	1533.73
82	1523.33
83	1454.09
84	1452.13
85	#N/A
86	#N/A
87	#N/A
88	#N/A
89	#N/A
90	#N/A
91	#N/A
92	#N/A
93	#N/A
94	#N/A
95	#N/A
96	#N/A
97	#N/A
98	#N/A
99	#N/A
100	#N/A
101	#N/A
102	#N/A
103	#N/A
104	#N/A
105	#N/A
106	#N/A
107	#N/A
108	#N/A
109	#N/A
110	#N/A
111	#N/A
112	#N/A
113	#N/A
114	#N/A
115	#N/A
116	#N/A
117	#N/A
118	#N/A



Cruise No: 200401
 Station: 22
 Sample Type: Gravity Core
 Data Type: Laboratory MST Velocity

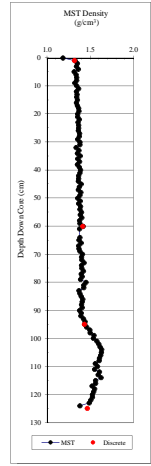
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	1449.04		
6	1491.96		
7	1493.24		
8	1490.33		
9	1372.77		
10	1377.75	1450.18	1464.66
11	1485.1		
12	1486.19		
13	1481.87		
14	1487.05		
15	1486.1		
16	1482.29		
17	1483.32		
18	1485.59		
19	1485.04		
20	1484.63	1447.41	1455.59
21	1485.82		
22	1484.63		
23	1482.15		
24	1481.3		
25	1481.18		
26	1480.33		
27	1479.82		
28	1478.63		
29	1477.72		
30	1477.45	1450.18	1455.59
31	1478.17		
32	1478.42		
33	1479.26		
34	1479.75		
35	1479.32		
36	1479.95		
37	1479.72		
38	1479.87		
39	1479.64		
40	1478.56	1450.18	1455.59
41	1478.72		
42	1478.46		
43	1478.99		
44	1478.66		
45	1477.36		
46	1476.93		
47	1475.97		
48	1475.78		
49	1477.47		
50	1478.53	1447.41	1464.66
51	1478.47		
52	1477.57		
53	1479.25		
54	1481.09		
55	1480.91		
56	#N/A		
57	#N/A		
58	#N/A		
59	#N/A		
60	#N/A		
61	#N/A		
62	#N/A		
63	#N/A		
64	1487.97		
65	1480.91		
66	1481.53		
67	1489.1		
68	1487.78		
69	1538.19		
70	1535.48	1490.12	1506.93
71	1528.92		
72	1531.69		
73	1536.22		
74	1543.75		
75	1536.54		
76	1527.66		
77	1524.77		
78	1535.38		
79	1534.93		
80	1535	1513.94	1521.56
81	1533.73		
82	1523.23		
83	1454.09		
84	1452.13		
85	#N/A		
86	#N/A		
87	#N/A		
88	#N/A		
89	#N/A		
90	#N/A	1458.56	1469.24
91	#N/A		
92	#N/A		
93	#N/A		
94	#N/A		
95	#N/A		
96	#N/A		
97	#N/A		
98	#N/A		
99	#N/A		
100	#N/A	1464.2	1464.66
101	#N/A		
102	#N/A		
103	#N/A		
104	#N/A		
105	#N/A		
106	#N/A		
107	#N/A		
108	#N/A		
109	#N/A		
110	#N/A	1464.2	1464.66
111	#N/A		
112	#N/A		
113	#N/A		
114	#N/A		
115	#N/A		
116	#N/A		
117	#N/A		
118	#N/A		



Cruise No: 200401
 Station: 42
 Sample Type: Gravity Core
 Data Type: Laboratory MST Density

Cruise No: 200401
 Station: 42
 Sample Type: Gravity Core
 Data Type: Densite Laboratory Measurements
 Shipboard

Depth (cm)	Bulk Density (g/cm ³)	$\frac{\Delta Z_{\text{measured}}}{\Delta Z_{\text{theoretical}}}$	Total
0	1.18		
1	1.32	0.044	0.04
2	1.35	0.031	0.08
3	1.34	0.032	0.11
4	1.36	0.031	0.14
5	1.31	0.030	0.17
6	1.34	0.030	0.20
7	1.34	0.031	0.23
8	1.34	0.031	0.26
9	1.32	0.030	0.29
10	1.34	0.031	0.32
11	1.37	0.032	0.35
12	1.34	0.032	0.39
13	1.35	0.031	0.42
14	1.34	0.031	0.45
15	1.35	0.031	0.48
16	1.34	0.031	0.51
17	1.35	0.032	0.54
18	1.36	0.033	0.58
19	1.37	0.033	0.61
20	1.35	0.033	0.64
21	1.35	0.033	0.68
22	1.37	0.033	0.71
23	1.36	0.033	0.74
24	1.36	0.033	0.78
25	1.36	0.033	0.81
26	1.36	0.034	0.84
27	1.38	0.034	0.88
28	1.37	0.034	0.91
29	1.36	0.033	0.94
30	1.38	0.034	0.98
31	1.38	0.034	1.01
32	1.34	0.032	1.04
33	1.37	0.033	1.08
34	1.35	0.033	1.11
35	1.39	0.034	1.14
36	1.36	0.034	1.18
37	1.38	0.033	1.21
38	1.35	0.033	1.24
39	1.37	0.034	1.28
40	1.39	0.035	1.31
41	1.38	0.035	1.35
42	1.37	0.034	1.38
43	1.37	0.034	1.42
44	1.36	0.034	1.45
45	1.40	0.035	1.49
46	1.37	0.035	1.52
47	1.36	0.034	1.55
48	1.39	0.035	1.59
49	1.38	0.035	1.62
50	1.36	0.034	1.66
51	1.38	0.034	1.69
52	1.36	0.034	1.73
53	1.39	0.035	1.76
54	1.38	0.036	1.80
55	1.40	0.036	1.83
56	1.38	0.036	1.87
57	1.40	0.036	1.90
58	1.38	0.035	1.94
59	1.38	0.036	1.98
60	1.42	0.037	2.01
61	1.38	0.033	2.02
62	0.044	-0.070	1.95
63	0.044	0.000	1.95
64	0.044	0.000	1.95
65	0.044	-0.077	1.87
66	1.38	-0.005	1.86
67	1.37	0.035	1.89
68	1.40	0.035	1.93
69	1.37	0.034	1.97
70	1.37	0.034	2.00
71	1.38	0.035	2.04
72	1.41	0.037	2.07
73	1.40	0.037	2.11
74	1.40	0.038	2.15
75	1.43	0.038	2.19
76	1.40	0.038	2.22
77	1.40	0.037	2.26
78	1.42	0.038	2.30
79	1.39	0.037	2.34
80	1.41	0.037	2.37
81	1.39	0.038	2.41
82	1.45	0.040	2.45
83	1.43	0.040	2.49
84	1.42	0.038	2.53
85	1.37	0.036	2.57
86	1.38	0.035	2.60
87	1.40	0.037	2.64
88	1.41	0.038	2.67
89	1.41	0.038	2.71
90	1.40	0.037	2.75
91	1.41	0.037	2.79
92	1.38	0.036	2.82
93	1.40	0.036	2.86
94	1.39	0.037	2.89
95	1.42	0.039	2.93
96	1.44	0.040	2.97
97	1.44	0.041	3.01
98	1.46	0.041	3.05
99	1.50	0.045	3.10
100	1.50	0.048	3.15
101	1.54	0.050	3.20
102	1.54	0.051	3.25
103	1.58	0.054	3.30
104	1.60	0.056	3.36
105	1.61	0.058	3.42
106	1.63	0.059	3.48
107	1.63	0.059	3.54
108	1.62	0.058	3.60
109	1.61	0.057	3.65
110	1.60	0.056	3.71
111	1.56	0.054	3.76
112	1.58	0.053	3.82
113	1.55	0.054	3.87
114	1.60	0.055	3.92
115	1.59	0.057	3.98
116	1.62	0.057	4.04
117	1.56	0.054	4.09
118	1.56	0.052	4.14
119	1.52	0.051	4.19
120	1.55	0.051	4.25
121	1.54	0.051	4.30
122	1.52	0.049	4.35
123	1.52	0.049	4.39
124	1.51	0.047	4.44
125	1.49	0.043	4.48
126	1.38	0.002	4.49
127	0.008	-0.018	4.47



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	Void Ratio	Water Content Wet (%)	Water Content Dry (%)
1	1.32	0.49	81.15	4.31		170.52	
40	1.42	0.61	78.69	2.86	3.69	56.05	132.27
95	1.43	0.64	77.25	2.82	3.39	55.21	123.27
125	1.47	0.71	74.08		2.86		107.09
Averages	1.41	0.61	77.79	2.84	3.56	56.08	133.29

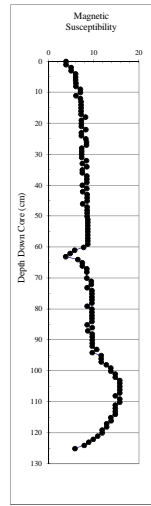
Cruise No: 201401

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	3.8
1	3.8
2	4.9
3	4.9
4	5.9
5	5.9
6	5.9
7	6
8	6
9	7
10	7
11	6
12	7
13	7.1
14	7.1
15	7.1
16	7.1
17	7.1
18	8.1
19	7.2
20	7.2
21	7.2
22	8.2
23	7.2
24	7.2
25	8.2
26	8.3
27	8.3
28	7.3
29	7.3
30	7.3
31	7.3
32	8.3
33	7.4
34	8.4
35	7.4
36	7.4
37	8.4
38	8.4
39	8.4
40	7.4
41	8.4
42	7.5
43	8.5
44	8.5
45	8.5
46	7.5
47	8.5
48	8.5
49	8.5
50	8.5
51	8.6
52	8.6
53	8.6
54	8.6
55	8.6
56	8.6
57	8.6
58	8.6
59	8.6
60	7.7
61	5.7
62	4.7
63	3.7
64	6.4
65	7.4
66	7.4
67	8.4
68	8.4
69	10.4
70	8.4
71	9.4
72	9.4
73	8.5
74	9.5
75	9.5
76	9.5
77	9.5
78	9.5
79	8.5
80	9.5
81	9.5
82	9.5
83	9.5
84	9.5
85	8.5
86	9.6
87	8.6
88	9.6
89	9.6
90	9.6
91	9.6
92	9.6
93	10.6
94	9.6
95	11.6
96	11.6
97	11.6
98	12.7
99	13.7
100	13.7
101	14.7
102	14.7
103	15.7
104	15.7
105	15.7
106	15.7
107	15.7
108	14.7
109	15.7
110	15.7
111	14.7
112	14.7
113	14.7
114	14.7
115	13.7
116	13.8
117	12.8
118	12.8
119	11.8
120	11.8
121	10.8
122	9.8
123	8.8
124	7.8
125	5.8



Cruise No: 2004801

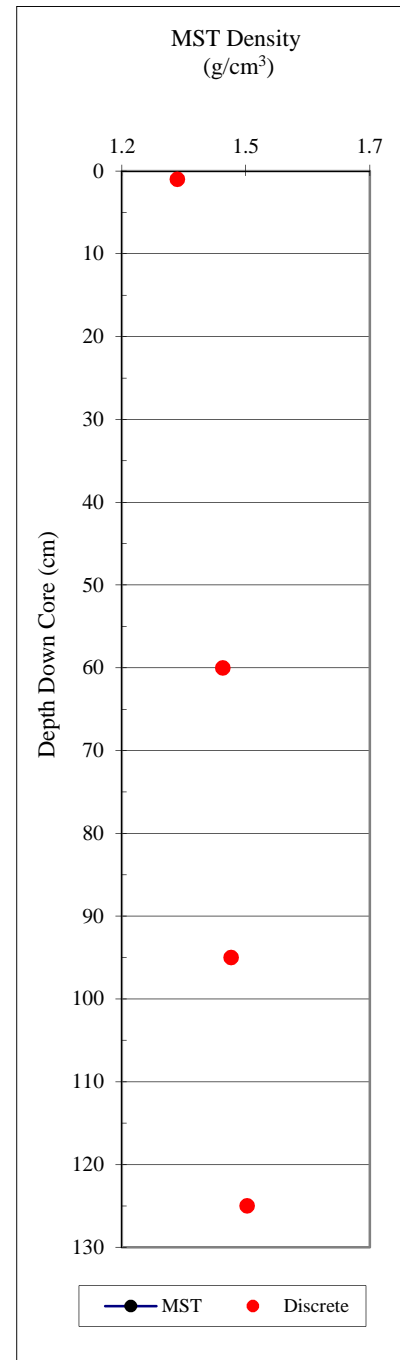
Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
1	1.32	0.49	81.15		4.31		170.52
60	1.42	0.61	78.69	2.86	3.69	56.95	132.27
95	1.43	0.64	77.25	2.82	3.39	55.21	123.27
125	1.47	0.71	74.08		2.86		107.09
averages	1.41	0.61	77.79	2.84	3.56	56.08	133.29



Cruise No: 2004801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Cruise No: 2004801

Station: 42

Sample Type: Gravity Core

Data Type: Shipboard Torvane

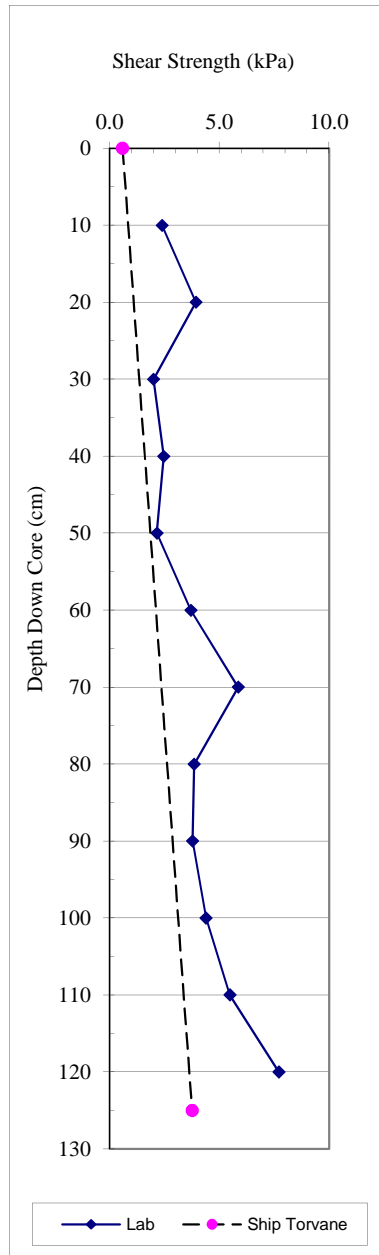
Cruise No: 2004801

Station: 42

Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	<u>Shear</u> <u>(kPa)</u>	<u>Shear</u> <u>(kPa)</u>	
10	2.39	2.01	1.19
20	3.94		
30	2.01		
40	2.47		
50	2.16		
60	3.70	2.39	1.55
70	5.86	2.08	2.81
80	3.86		
90	3.78		
100	4.40		
110	5.48		
120	7.72	6.56	1.18
average	3.98		

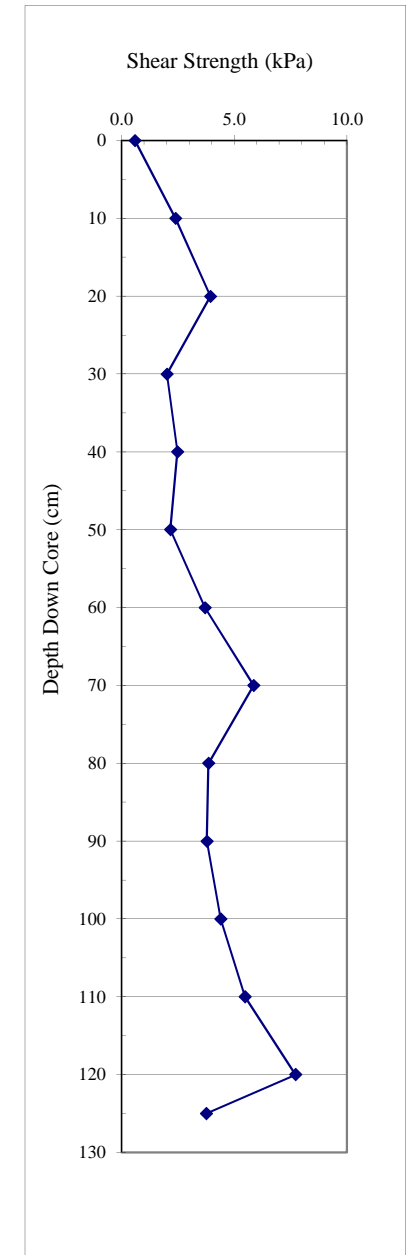


<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	
	<u>Shear</u> <u>(kPa)</u>	
0	0.59	2.5Y 3/3
125	3.76	Grey1 2.5/10

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	
	<u>Shear</u> <u>(kPa)</u>	
NA	NA	
NA	NA	
NA	NA	
NA	NA	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	<u>Shear</u> <u>(kPa)</u>	<u>Shear</u> <u>(kPa)</u>	
0.0	0.59		
10	2.39	2.01	1.19
20	3.94		
30	2.01		
40	2.47		
50	2.16		
60	3.70	2.39	1.55
70	5.86	2.08	2.81
80	3.86		
90	3.78		
100	4.40		
110	5.48		
120	7.72	6.56	1.18
125	3.76		
average	3.7		



Cruise No: 2004801

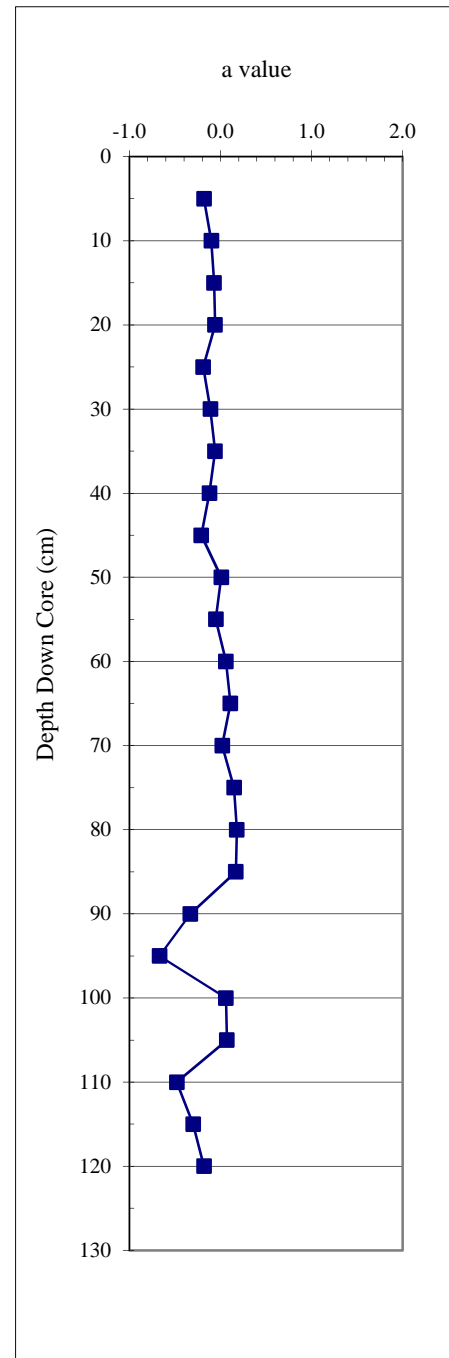
Station: 42

Sample Type: Gravity Core

Data Type: Colour data

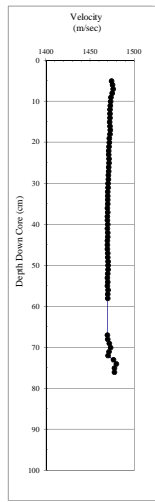
<u>Depth Down</u> <u>Core (cm)</u>	<u>a value</u>	<u>Lvalue</u>	<u>b value</u>
5	-0.18	38.03	1.59
10	-0.10	33.85	2.42
15	-0.07	33.71	2.59
20	-0.06	33.76	2.59
25	-0.19	36.16	1.91
30	-0.11	36.66	2.16
35	-0.06	33.69	2.54
40	-0.12	34.11	2.28
45	-0.21	36.29	1.65
50	0.01	33.8	2.7
55	-0.05	34.89	2.46
60	0.06	34.51	2.94
65	0.11	36.51	2.78
70	0.02	38.71	2.16
75	0.15	35.37	2.77
80	0.18	36.59	2.65
85	0.17	36.2	2.41
90	-0.33	31.6	0.97
95	-0.67	30.42	-0.25
100	0.06	34.76	2.76
105	0.07	36.7	2.89
110	-0.48	36.53	0.77
115	-0.3	38.31	0.77
120	-0.18	37.81	1.47

average -0.10



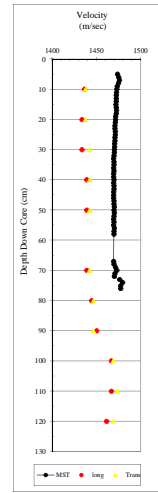
Cruise No: 201401
Station: 42
Sample Type: Gravity Core
Data Type: Laboratory MST Velocity

Depth (cm)	Velocity (m/sec)
0	#N/A
1	#N/A
2	#N/A
3	#N/A
4	#N/A
5	1473.95
6	1475.20
7	1475.90
8	1474.95
9	1473.27
10	1473.13
11	1472.52
12	1472.41
13	1472.32
14	1472.36
15	1472.11
16	1472.33
17	1472.54
18	1472.38
19	1471.54
20	1471.60
21	1471.25
22	1470.92
23	1470.97
24	1471.15
25	1471.31
26	1470.8
27	1470.87
28	1470.45
29	1470.37
30	1470.16
31	1470.20
32	1469.82
33	1469.59
34	1469.85
35	1469.71
36	1469.53
37	1469.70
38	1469.55
39	1469.52
40	1469.8
41	1469.56
42	1469.77
43	1469.67
44	1469.27
45	1469.41
46	1469.55
47	1469.89
48	1469.82
49	1470.19
50	1469.95
51	1470.1
52	1469.85
53	1469.56
54	1469.69
55	1469.46
56	1470.1
57	1469.87
58	1469.79
59	#N/A
60	#N/A
61	#N/A
62	#N/A
63	#N/A
62	#N/A
63	#N/A
64	#N/A
65	#N/A
66	#N/A
67	1469.46
68	1469.74
69	1471.69
70	1473.09
71	1471.05
72	1470.09
73	1476.46
74	1479.69
75	1477.46
76	1477.24
77	#N/A
78	#N/A
79	#N/A
80	#N/A
81	#N/A
82	#N/A
83	#N/A
84	#N/A
85	#N/A
86	#N/A
87	#N/A
88	#N/A
89	#N/A
90	#N/A
91	#N/A
92	#N/A
93	#N/A
94	#N/A
95	#N/A
96	#N/A
97	#N/A
98	#N/A
99	#N/A
100	#N/A
101	#N/A
102	#N/A
103	#N/A
104	#N/A
105	#N/A
106	#N/A
107	#N/A
108	#N/A
109	#N/A
110	#N/A
111	#N/A
112	#N/A
113	#N/A
114	#N/A
115	#N/A
116	#N/A
117	#N/A
118	#N/A
119	#N/A
120	#N/A
121	#N/A
122	#N/A
123	#N/A
124	#N/A
125	#N/A



Cruise No: 201401
 Station: 42
 Sample Type: Gravity Core
 Data Type: Lab-derived MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
0	#N/A		
1	#N/A		
2	#N/A		
3	#N/A		
4	#N/A		
5	1473.95		
6	1475.20		
7	1475.90		
8	1474.95		
9	1473.27		
10	1473.13	1436.43	1437.78
11	1472.52		
12	1472.41		
13	1472.32		
14	1472.36		
15	1472.11		
16	1472.33		
17	1472.54		
18	1472.38		
19	1471.54		
20	1471.60	1433.71	1437.78
21	1471.25		
22	1470.92		
23	1470.97		
24	1471.15		
25	1471.31		
26	1470.8		
27	1470.87		
28	1470.45		
29	1470.37		
30	1470.16	1433.71	1442.19
31	1470.20		
32	1469.82		
33	1469.59		
34	1469.85		
35	1469.71		
36	1469.53		
37	1469.70		
38	1469.55		
39	1469.52		
40	1469.8	1439.16	1442.19
41	1469.56		
42	1469.77		
43	1469.67		
44	1469.27		
45	1469.41		
46	1469.55		
47	1469.89		
48	1469.82		
49	1470.19		
50	1469.95	1439.16	1442.19
51	1470.1		
52	1469.85		
53	1469.56		
54	1469.69		
55	1469.46		
56	1470.1		
57	1469.87		
58	1469.79		
59	#N/A		
60	#N/A		
61	#N/A		
62	#N/A		
63	#N/A		
62	#N/A		
63	#N/A		
64	#N/A		
65	#N/A		
66	#N/A		
67	1469.46		
68	1469.74		
69	1471.69		
70	1471.09	1439.16	1442.19
71	1471.05		
72	1470.09		
73	1476.46		
74	1479.69		
75	1477.46		
76	1477.24		
77	#N/A		
78	#N/A		
79	#N/A		
80	#N/A	1444.65	1446.63
81	#N/A		
82	#N/A		
83	#N/A		
84	#N/A		
85	#N/A		
86	#N/A		
87	#N/A		
88	#N/A		
89	#N/A		
90	#N/A	1450.18	1446.63
91	#N/A		
92	#N/A		
93	#N/A		
94	#N/A		
95	#N/A		
96	#N/A		
97	#N/A		
98	#N/A		
99	#N/A		
100	#N/A	1467.03	1469.24
101	#N/A		
102	#N/A		
103	#N/A		
104	#N/A		
105	#N/A		
106	#N/A		
107	#N/A		
108	#N/A		
109	#N/A		
110	#N/A	1467.03	1473.85
111	#N/A		
112	#N/A		
113	#N/A		
114	#N/A		
115	#N/A		
116	#N/A		
117	#N/A		
118	#N/A		
119	#N/A		
120	#N/A	1461.37	1469.24
121	#N/A		
122	#N/A		
123	#N/A		
124	#N/A		
125	#N/A		



Cruise No: 2005801

Station: 2

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

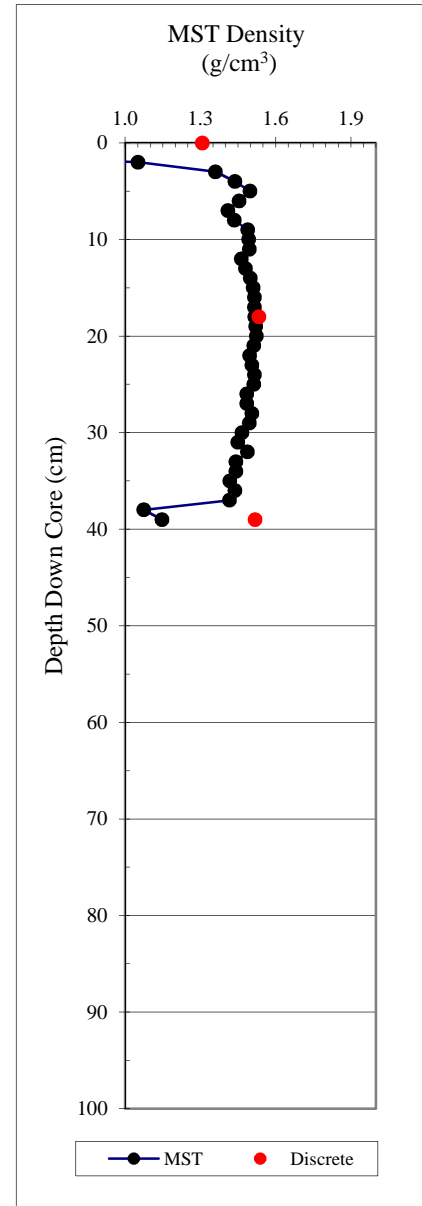
Station: 2

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	-0.1413	-0.057	
1	-0.092079	-0.083	-0.08
2	1.050528	-0.018	-0.10
3	1.360184	0.027	-0.07
4	1.438057	0.040	-0.03
5	1.498016	0.044	0.01
6	1.454229	0.042	0.05
7	1.409471	0.040	0.09
8	1.434514	0.041	0.13
9	1.488935	0.044	0.18
10	1.49191	0.046	0.22
11	1.495119	0.045	0.27
12	1.463341	0.044	0.31
13	1.479259	0.045	0.36
14	1.499156	0.046	0.40
15	1.509816	0.048	0.45
16	1.515124	0.048	0.50
17	1.514769	0.048	0.55
18	1.516038	0.048	0.60
19	1.52002	0.049	0.65
20	1.523205	0.049	0.69
21	1.512586	0.048	0.74
22	1.496754	0.047	0.79
23	1.505103	0.047	0.84
24	1.515426	0.048	0.88
25	1.512518	0.047	0.93
26	1.484176	0.046	0.98
27	1.484695	0.046	1.02
28	1.505573	0.046	1.07
29	1.495308	0.046	1.12
30	1.465797	0.044	1.16
31	1.44874	0.043	1.20
32	1.486635	0.043	1.25
33	1.441284	0.042	1.29
34	1.441586	0.040	1.33
35	1.417142	0.040	1.37
36	1.436954	0.040	1.41
37	1.415922	0.031	1.44
38	1.073348	0.015	1.45
39	1.147236	0.866	2.32



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.31	0.53	75.82	2.20	3.14	59.37	146.12
18	1.53	0.80	71.44	2.81	2.50	47.72	91.28
** 39	1.52	0.82	68.20	2.58	2.14	45.99	85.17
averages:	1.45	0.72	71.82	2.53	2.59	51.03	107.52

Very soft, sediment on lid

cord sample, sediment on lid

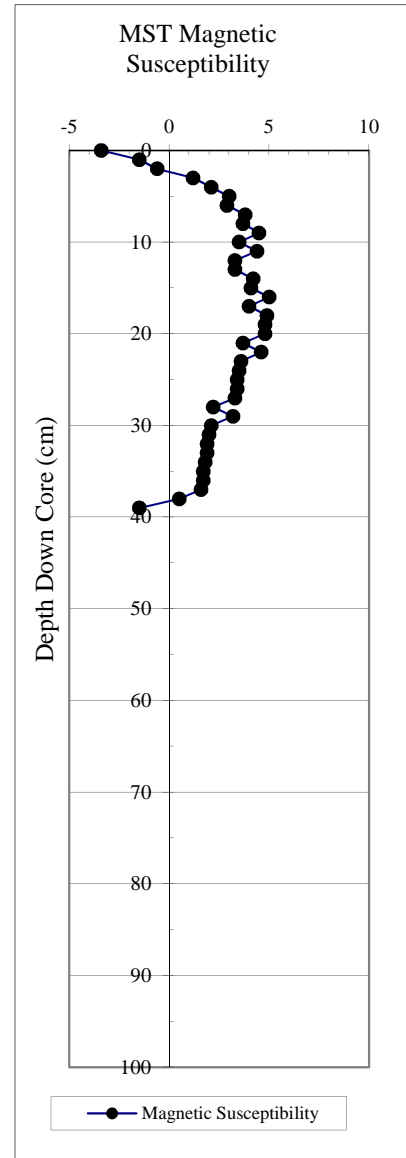
Cruise No: 2005801

Station: 2

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	-3.4
1	-1.5
2	-0.6
3	1.2
4	2.1
5	3
6	2.9
7	3.8
8	3.7
9	4.5
10	3.5
11	4.4
12	3.3
13	3.3
14	4.2
15	4.1
16	5
17	4
18	4.9
19	4.8
20	4.8
21	3.7
22	4.6
23	3.6
24	3.5
25	3.4
26	3.4
27	3.3
28	2.2
29	3.2
30	2.1
31	2
32	1.9
33	1.9
34	1.8
35	1.7
36	1.7
37	1.6
38	0.5
39	-1.5



Cruise No: 2005801

Station: 2

Sample Type: Push Core

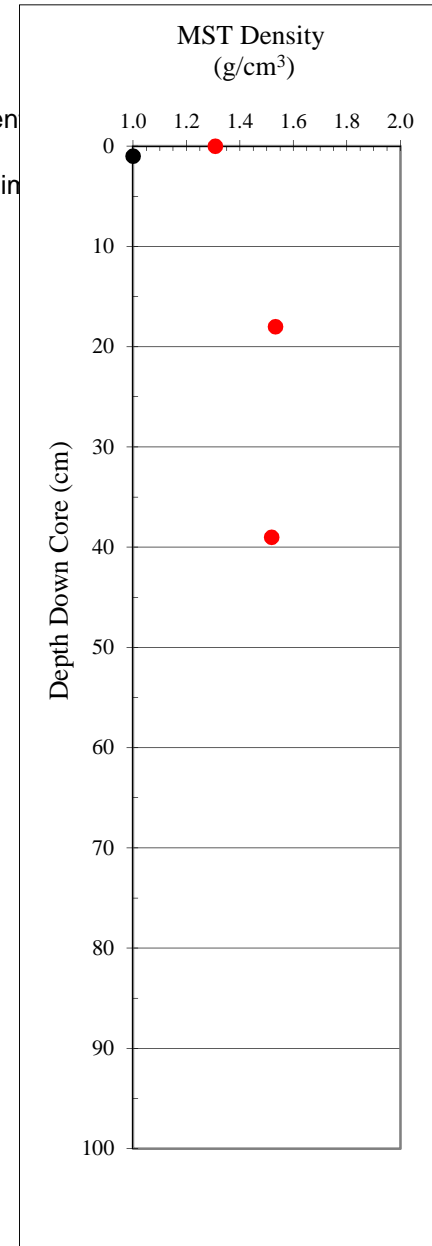
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.31	0.53	75.82	2.20	3.14	59.37	146.12
18	1.53	0.80	71.44	2.81	2.50	47.72	91.28
** 39	1.52	0.82	68.20	2.58	2.14	45.99	85.17
averages:	1.45	0.72	71.82	2.53	2.59	51.03	107.52

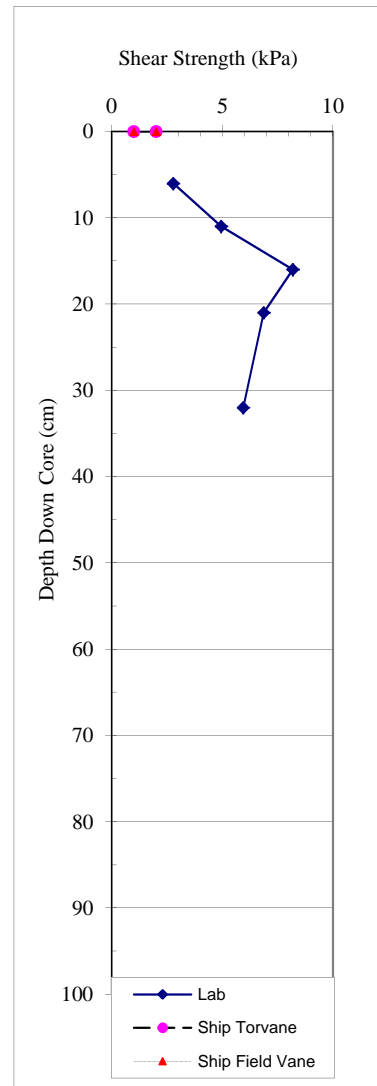
Very soft, sedimen

cord sample, sedin



Cruise No: 2003801
 Station: 2
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	6	2.78	
11	4.94		
16	8.18	1.16	7.07
21	6.87		
32	5.94		
average	2.01		



Cruise No: 2003801
 Station: 2
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

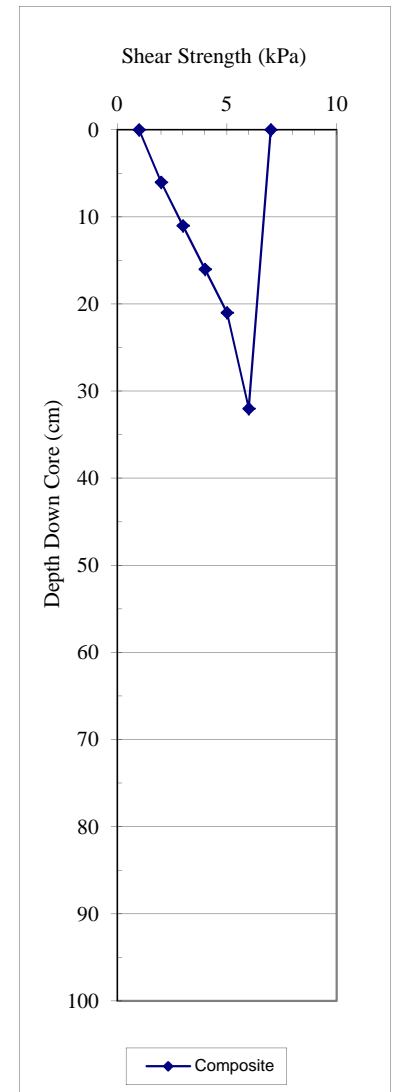
Cruise No: 2003801
 Station: 2
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

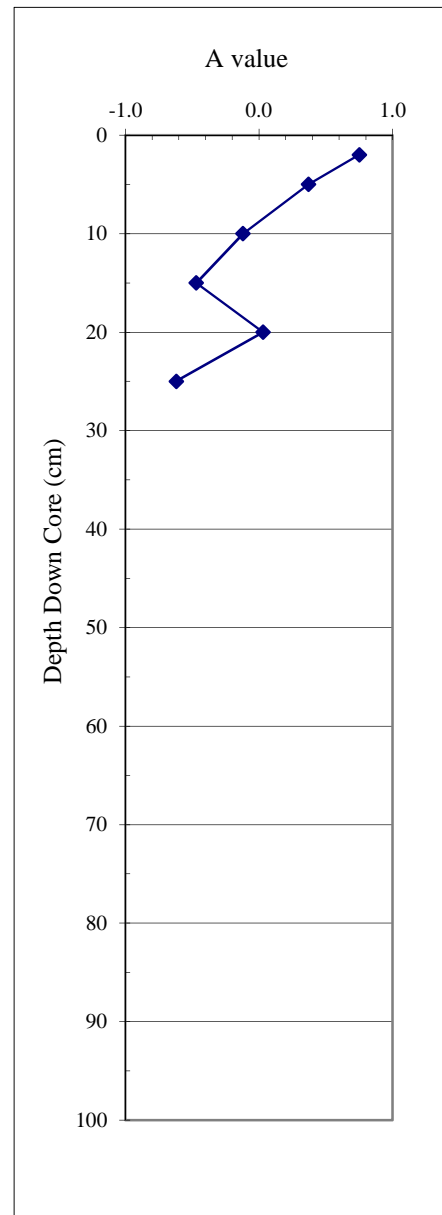
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	NA	NA
6	2.78	1.62
11	4.94	
16	8.18	1.16
21	6.87	
32	5.94	
NA	NA	

average 5.74



Cruise No: 2003801
Station: 2
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	0.75	4.54	36.94
5	0.37	3.34	36.93
10	-0.12	2.06	34.45
15	-0.47	1.12	35.81
20	0.03	2.52	33.79
25	-0.62	0.68	30.7
30	0.17	2.91	34.79
35	0.25	3.17	33.93
average:	0.05	2.5425	34.6675



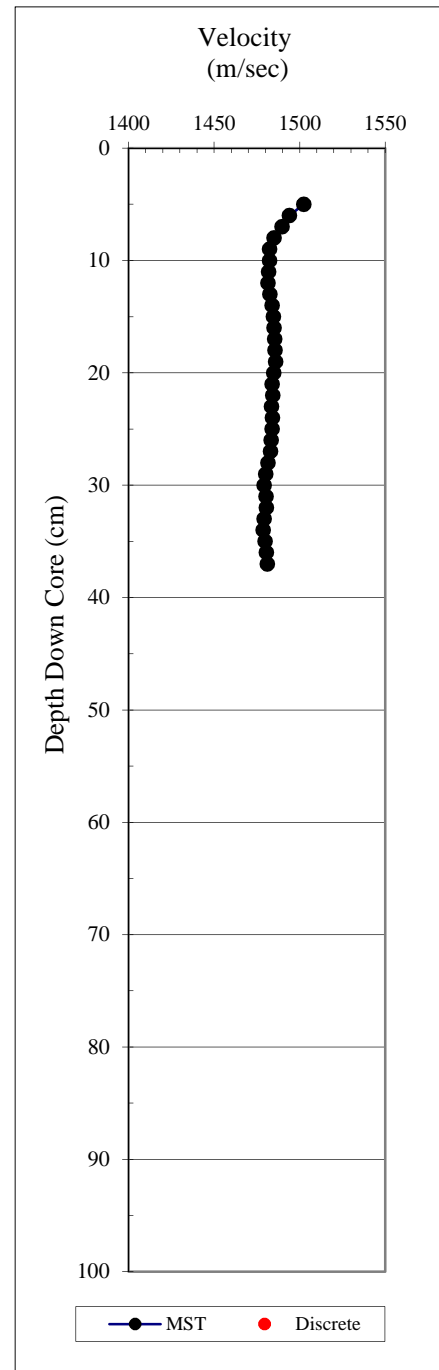
Cruise No: 2005801

Station: 2

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
5	1502.35
6	1494.08
7	1489.67
8	1485.1
9	1482.47
10	1482.43
11	1481.81
12	1481.52
13	1482.61
14	1483.85
15	1484.75
16	1485.04
17	1485.49
18	1485.68
19	1485.93
20	1484.8
21	1483.83
22	1484.21
23	1483.5
24	1484.01
25	1483.85
26	1483.36
27	1482.95
28	1481.49
29	1480.2
30	1479.26
31	1480.27
32	1480.54
33	1479.29
34	1478.65
35	1479.77
36	1480.52
37	1481.02



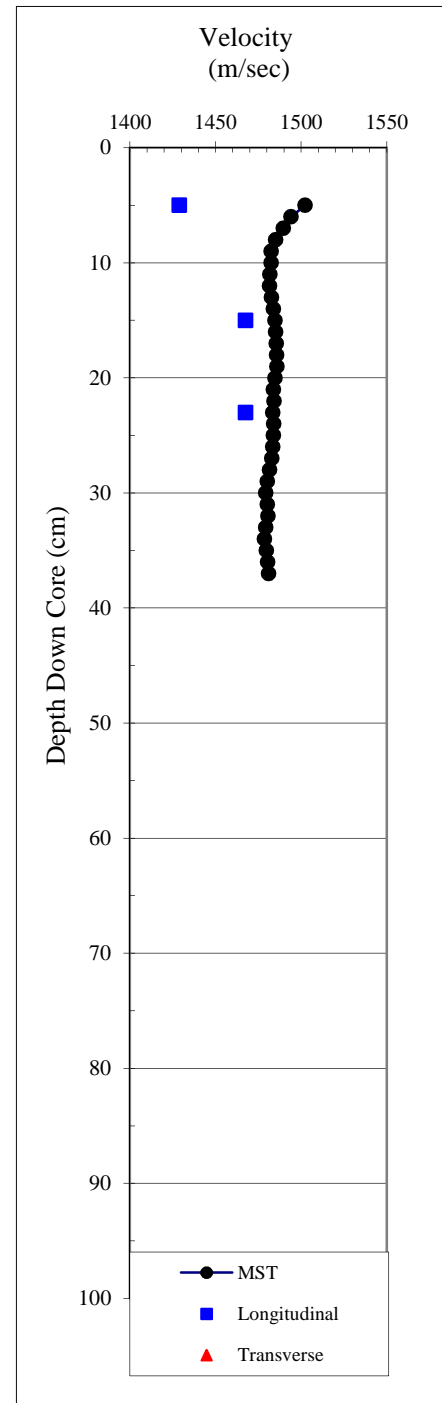
Cruise No: 2005801

Station: 2

Sample Type: Push Core

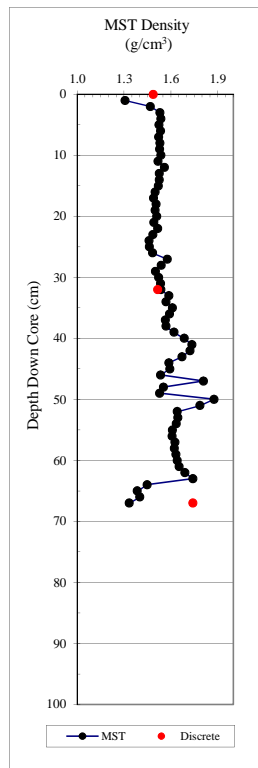
Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
5	1502.35	1428.76	
6	1494.08		
7	1489.67		
8	1485.1		
9	1482.47		
10	1482.43		
11	1481.81		
12	1481.52		
13	1482.61		
14	1483.85		
15	1484.75	1467.45	
16	1485.04		
17	1485.49		
18	1485.68		
19	1485.93		
20	1484.8		
21	1483.83		
22	1484.21		
23	1483.5	1467.45	
24	1484.01		
25	1483.85		
26	1483.36		
27	1482.95		
28	1481.49		
29	1480.2		
30	1479.26		
31	1480.27		
32	1480.54		
33	1479.29		
34	1478.65		
35	1479.77		
36	1480.52		
37	1481.02		



Cruise No: 2005801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.177438397	0.008	
1	1.305634937	0.028	0.03
2	1.468946186	0.041	0.07
3	1.528656555	0.048	0.12
4	1.534750217	0.050	0.17
5	1.523767874	0.050	0.22
6	1.534360363	0.049	0.27
7	1.521583668	0.049	0.32
8	1.530063872	0.049	0.37
9	1.527944259	0.050	0.41
10	1.535867727	0.050	0.46
11	1.517277881	0.050	0.51
12	1.55799441	0.051	0.56
13	1.524863367	0.050	0.61
14	1.524839984	0.049	0.66
15	1.518674881	0.048	0.71
16	1.499496227	0.047	0.76
17	1.489524388	0.046	0.81
18	1.505650488	0.047	0.85
19	1.499708447	0.047	0.90
20	1.509386002	0.047	0.95
21	1.49077774	0.047	0.99
22	1.514355173	0.047	1.04
23	1.484065374	0.045	1.08
24	1.459046091	0.043	1.13
25	1.461295562	0.043	1.17
26	1.482289199	0.047	1.22
27	1.576185933	0.051	1.27
28	1.537025669	0.050	1.32
29	1.500401042	0.048	1.37
30	1.520711923	0.049	1.42
31	1.533596657	0.050	1.47
32	1.53539057	0.051	1.52
33	1.586396782	0.053	1.57
34	1.569136047	0.055	1.63
35	1.609813156	0.056	1.68
36	1.591993873	0.055	1.74
37	1.565037285	0.054	1.79
38	1.568494289	0.055	1.85
39	1.619593971	0.059	1.90
40	1.684866781	0.064	1.97
41	1.734553459	0.068	2.04
42	1.722905142	0.068	2.10
43	1.669937245	0.063	2.17
44	1.587029126	0.057	2.22
45	1.593047565	0.054	2.28
46	1.533478803	0.058	2.34
47	1.808153375	0.064	2.40
48	1.552730574	0.058	2.46
49	1.527828566	0.059	2.52
50	1.876301373	0.073	2.59
51	1.786133711	0.073	2.66
52	1.640634084	0.064	2.73
53	1.64346582	0.060	2.79
54	1.634551702	0.060	2.85
55	1.610270642	0.058	2.91
56	1.606550114	0.058	2.96
57	1.626576644	0.059	3.02
58	1.622394979	0.059	3.08
59	1.631778297	0.060	3.14
60	1.639516704	0.060	3.20
61	1.65182864	0.062	3.26
62	1.689402489	0.066	3.33
63	1.741560177	0.062	3.39
64	1.446897045	0.047	3.44
65	1.384982164	0.037	3.48
66	1.400297855	0.035	3.51
67	1.33274346	1.192	4.70



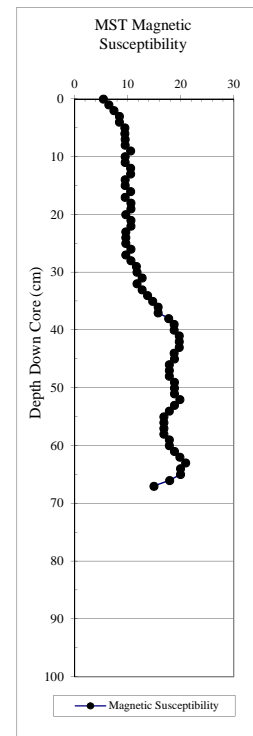
Cruise No: 2003801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.49	0.77	69.71	2.55	2.30	48.03	92.41
32	1.51	0.87	62.62	2.34	1.68	42.34	73.42
67	1.74	1.18	54.88	2.61	1.22	32.29	47.68
averages:	1.58	0.94	62.40	2.50	1.73	40.88	71.17

** not too soupy, sediment on lid
 ** cord sample

Cruise No: 2005801
Station: 3
Sample Type: Push Core
Data Type: Laboratory MST Magnetic Susceptibility

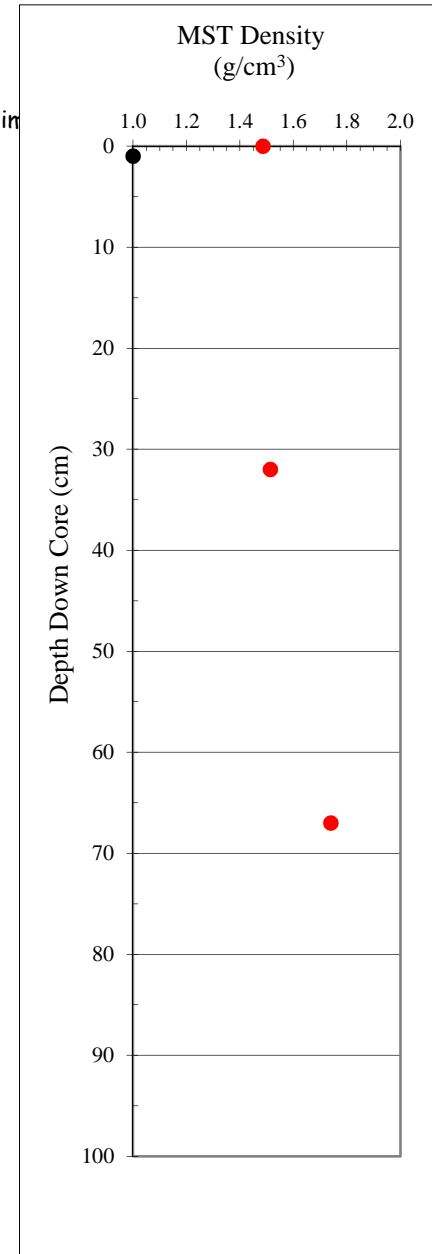
Depth (cm)	MST Magnetic Susceptibility
0	5.4
1	6.4
2	7.4
3	8.4
4	8.4
5	9.4
6	9.4
7	9.5
8	9.5
9	10.5
10	9.5
11	9.5
12	10.5
13	10.5
14	9.5
15	9.5
16	10.5
17	9.5
18	10.6
19	10.6
20	9.6
21	10.6
22	10.6
23	9.6
24	9.6
25	9.6
26	10.6
27	9.6
28	10.6
29	11.6
30	11.7
31	12.7
32	11.7
33	12.7
34	13.7
35	14.7
36	15.7
37	15.7
38	17.7
39	18.7
40	18.7
41	19.7
42	19.7
43	19.7
44	18.7
45	18.8
46	17.8
47	17.8
48	17.8
49	18.8
50	18.8
51	18.8
52	19.8
53	18.8
54	17.8
55	16.8
56	16.8
57	16.8
58	16.8
59	17.8
60	17.8
61	18.8
62	19.8
63	20.9
64	19.9
65	19.9
66	17.9
67	14.9



Cruise No: 2005801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

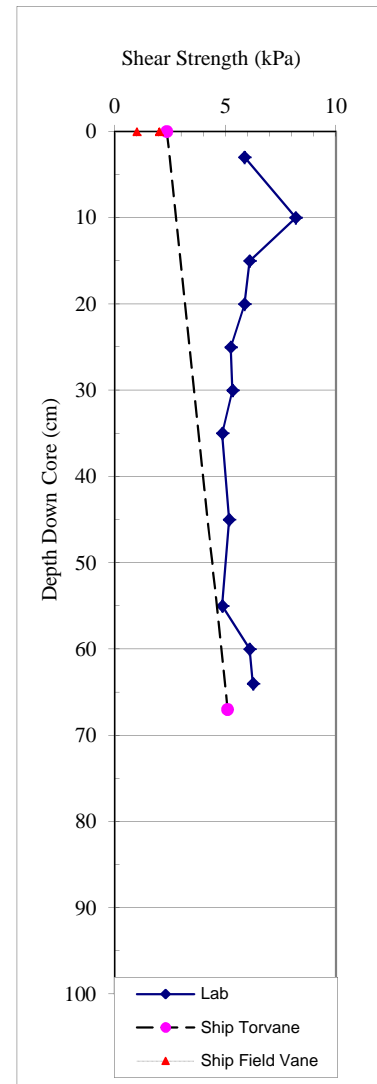
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.49	0.77	69.71	2.55	2.30	48.03	92.41
32	1.51	0.87	62.62	2.34	1.68	42.34	73.42
** 67	1.74	1.18	54.88	2.61	1.22	32.29	47.68
averages:	1.58	0.94	62.40	2.50	1.73	40.88	71.17

not too soupy, sediment
 cord sample



Cruise No: 2003801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	5.86	1.23	4.75
10	8.18		
15	6.10	3.78	1.61
20	5.86		
25	5.25	3.24	1.62
30	5.32		
35	4.86	0.46	10.50
45	5.17	0.46	11.17
55	4.86	1.31	3.71
60	6.10		
64	6.25	1.08	5.79
average	5.80		



Cruise No: 2003801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

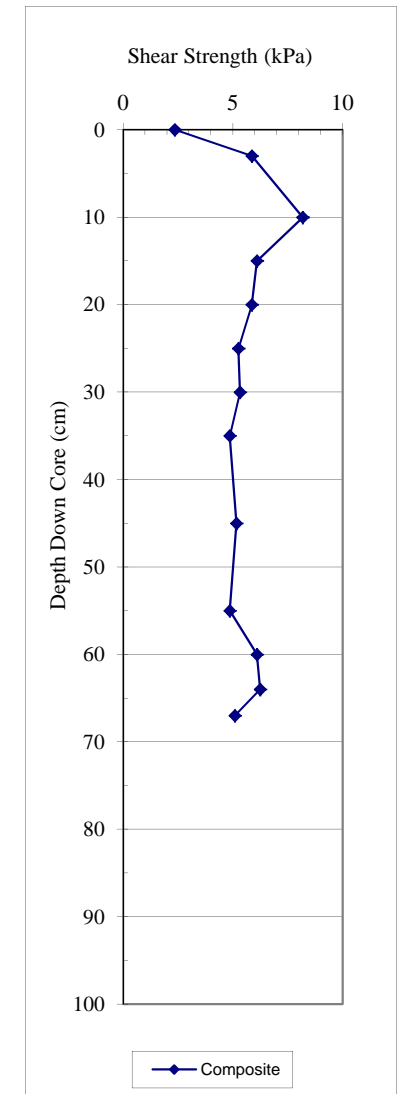
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	2.4
67.0	5.1

Cruise No: 2003801
 Station: 3
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0	2.35	
3	5.86	1.23
10	8.18	
15	6.10	3.78
20	5.86	
25	5.25	
30	5.32	
35	4.86	0.46
45	5.17	0.46
55	4.86	1.31
60	6.10	
64	6.25	1.08
67	5.10	
average	5.48	



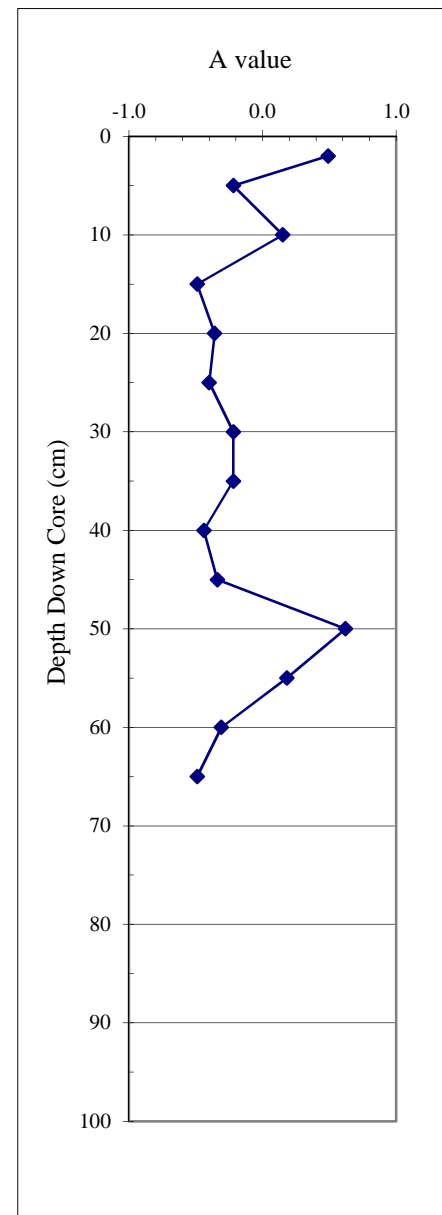
Cruise No: 2003801

Station: 3

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	0.49	3.6	36.8
5	-0.22	1.02	33.26
10	0.15	2.39	32.92
15	-0.49	0.75	32.82
20	-0.36	1.2	34.04
25	-0.4	0.9	34.64
30	-0.22	1.72	30.92
35	-0.22	1.82	30.15
40	-0.44	1.14	30.85
45	-0.34	1.25	33.13
50	0.62	3.68	35.78
55	0.18	2.7	36.03
60	-0.31	1.49	32.35
65	-0.49	0.43	29.97
average	-0.15	1.72	33.12



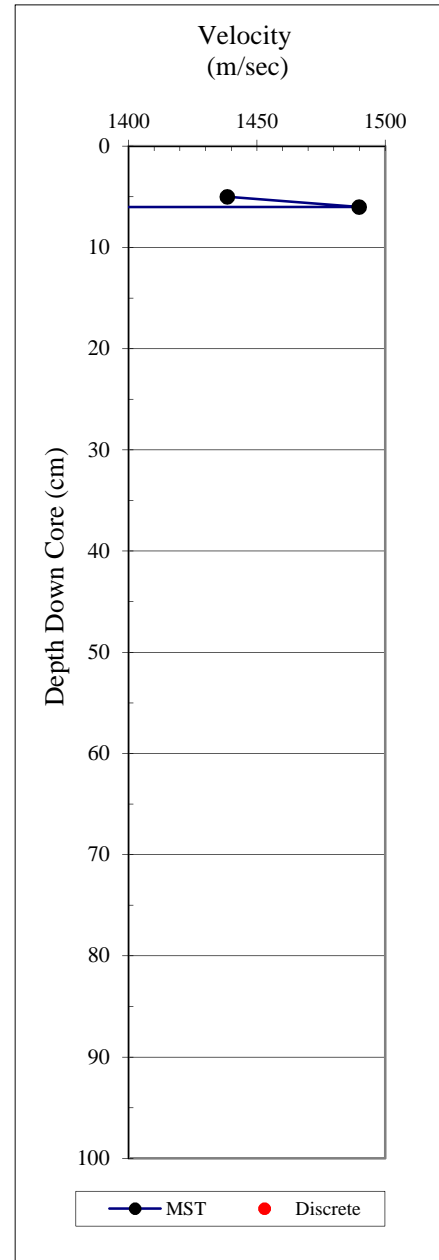
Cruise No: 2005801

Station: 3

Sample Type: ***Push Core***

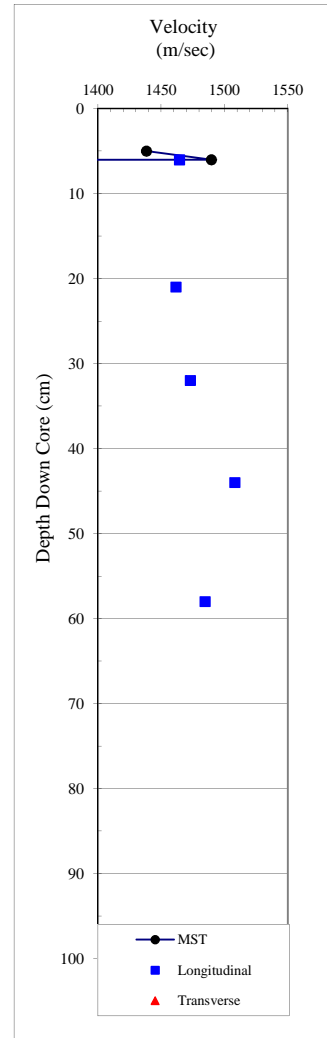
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
5	1438.43
6	1489.81
7	-11179.94



Cruise No: 2005801
 Station: 3
 Sample Type: Push Core
 Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
5	1438.43		
6	1489.81	1464.62	
7	-11179.94		
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21		1461.79	
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32		1473.15	
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44		1508.3	
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58		1484.68	



Cruise No: 2005801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

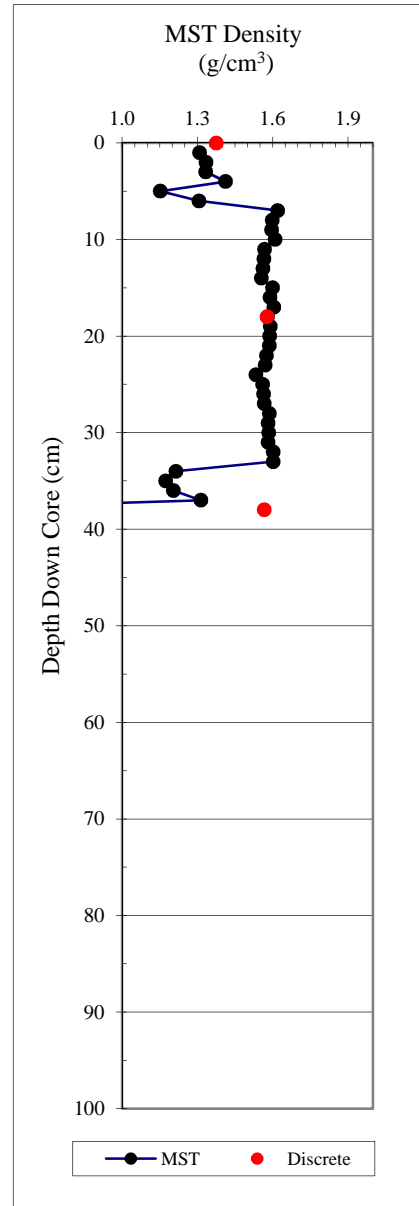
Station: 11

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	-0.0632	-0.053	
1	1.308521	-0.005	-0.01
2	1.334328	0.030	0.02
3	1.332784	0.032	0.06
4	1.412457	0.030	0.09
5	1.152316	0.023	0.11
6	1.306229	0.032	0.14
7	1.619471	0.050	0.19
8	1.598314	0.057	0.25
9	1.595335	0.056	0.30
10	1.60971	0.056	0.36
11	1.567919	0.054	0.41
12	1.564841	0.053	0.47
13	1.561659	0.053	0.52
14	1.554456	0.053	0.57
15	1.598916	0.055	0.63
16	1.589424	0.056	0.69
17	1.604569	0.056	0.74
18	1.579338	0.055	0.80
19	1.59032	0.055	0.85
20	1.587705	0.055	0.91
21	1.587186	0.055	0.96
22	1.574954	0.054	1.02
23	1.570603	0.053	1.07
24	1.533326	0.052	1.12
25	1.560218	0.052	1.17
26	1.563176	0.053	1.23
27	1.566495	0.054	1.28
28	1.587073	0.055	1.33
29	1.582008	0.055	1.39
30	1.584597	0.055	1.44
31	1.58104	0.055	1.50
32	1.601635	0.056	1.55
33	1.601684	0.047	1.60
34	1.214286	0.027	1.63
35	1.173942	0.016	1.65
36	1.203854	0.020	1.67
37	1.313822	-0.005	1.66
38	0.071648	1.826	3.49



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.38	0.64	71.71	2.27	2.53	53.40	114.58
18	1.58	0.88	68.12	2.76	2.14	44.20	79.23
** 38	1.57	0.89	65.77	2.61	1.92	43.01	75.47
averages:	1.51	0.80	68.53	2.54	2.20	46.87	89.76

soft, soupy, sediment on lid

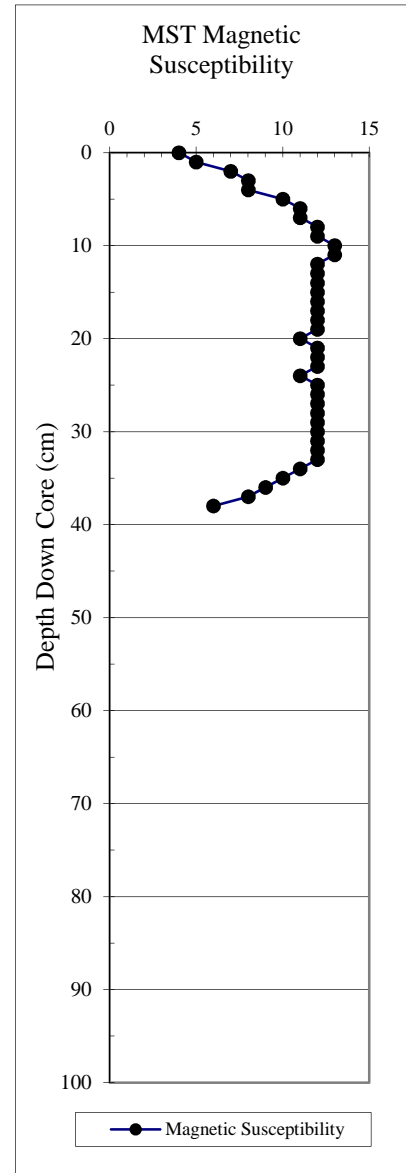
Cruise No: 2005801

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

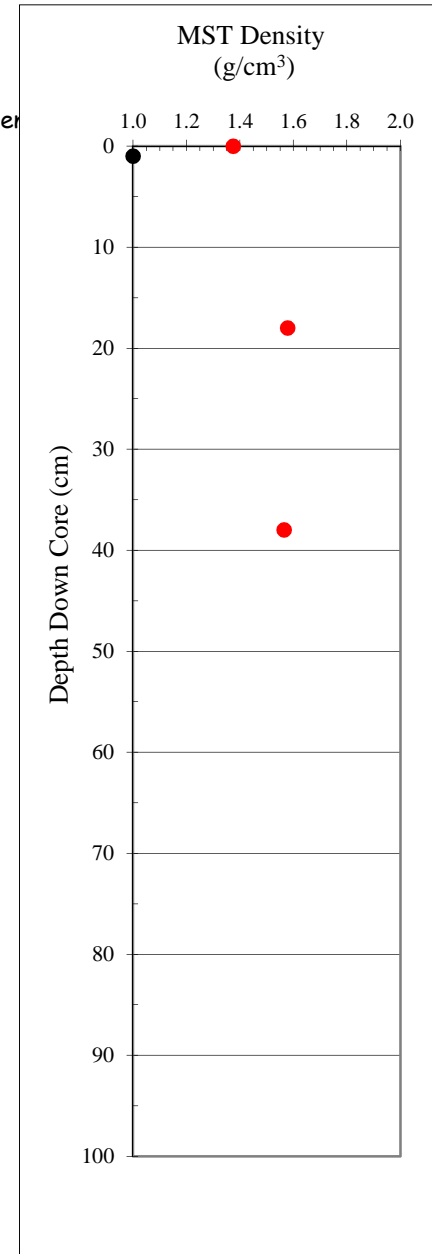
Depth (cm)	MST Magnetic Susceptibility
0	4
1	5
2	7
3	8
4	8
5	10
6	11
7	11
8	12
9	12
10	13
11	13
12	12
13	12
14	12
15	12
16	12
17	12
18	12
19	12
20	11
21	12
22	12
23	12
24	11
25	12
26	12
27	12
28	12
29	12
30	12
31	12
32	12
33	12
34	11
35	10
36	9
37	8
38	6



Cruise No: 2005801
 Station: 11
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.38	0.64	71.71	2.27	2.53	53.40	114.58
18	1.58	0.88	68.12	2.76	2.14	44.20	79.23
** 38	1.57	0.89	65.77	2.61	1.92	43.01	75.47
averages:	1.51	0.80	68.53	2.54	2.20	46.87	89.76

soft, soupy, sediment



Cruise No: 2003801

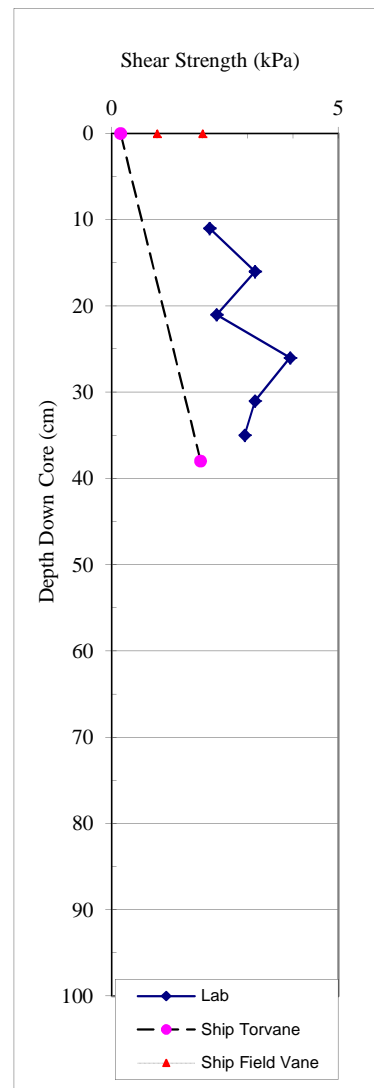
Station: 11

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	11	2.16	
16	3.16		
21	2.31	0.77	3.00
26	3.94		
31	3.16	0.62	5.12
35	2.93		

average 2.94



Cruise No: 2003801

Station: 11

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0.0	0.2
38.0	2.0

Cruise No: 2003801

Station: 11

Sample Type: Push Core

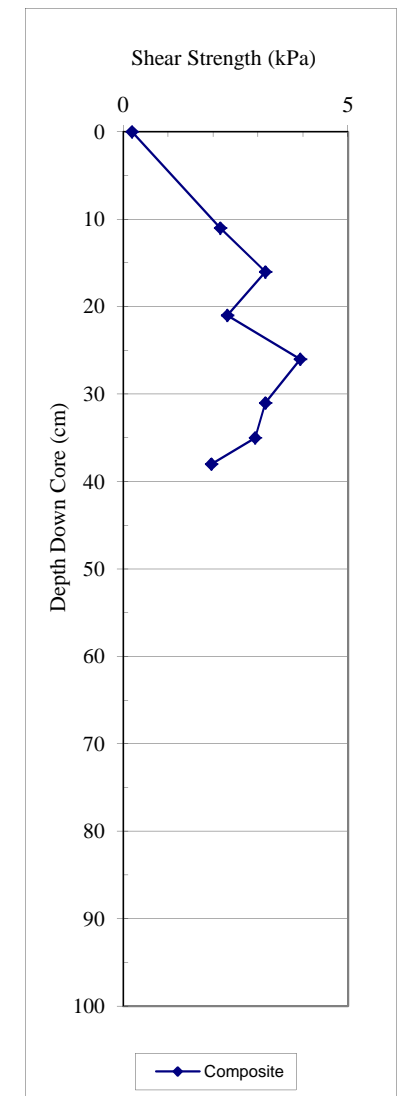
Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	0.0	0.20
11	2.16	0.46
16	3.16	
21	2.31	0.77
26	3.94	
31	3.16	0.62
35	2.93	
38.0	1.96	

average 2.48



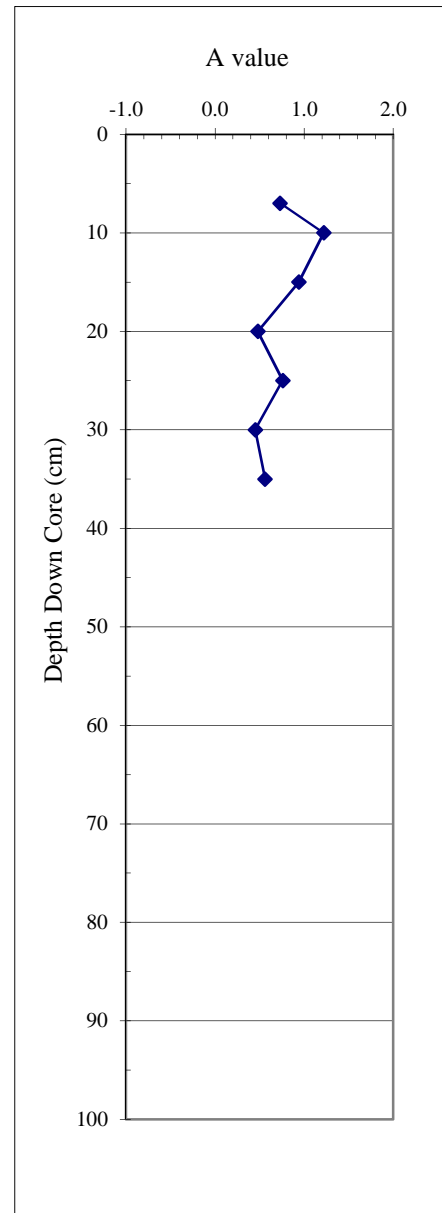
Cruise No: 2003801

Station: 11

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
7	0.73	3.16	43.03
10	1.22	4.88	38.14
15	0.94	4.03	39.35
20	0.48	3.18	39.84
25	0.76	4.47	37
30	0.45	3.38	35.67
35	0.56	3.57	38
average	0.73	3.81	38.72



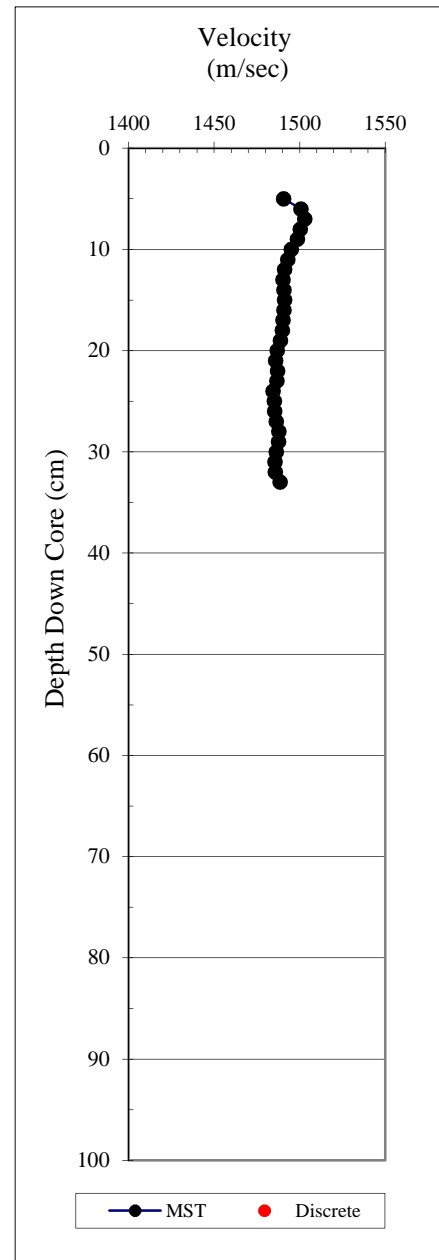
Cruise No: 2005801

Station: 11

Sample Type: **Push Core**

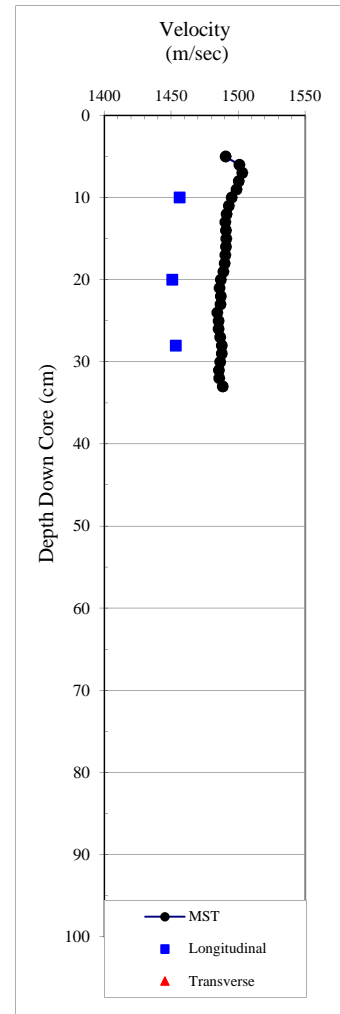
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
5	1490.63
6	1500.77
7	1502.99
8	1500.33
9	1498.77
10	1495.04
11	1493.11
12	1491.29
13	1490.27
14	1490.82
15	1491.12
16	1490.79
17	1490.26
18	1489.94
19	1488.85
20	1486.99
21	1486
22	1487.11
23	1486.71
24	1484.41
25	1485.29
26	1485.34
27	1486.43
28	1487.83
29	1487.69
30	1486.43
31	1485.62
32	1485.75
33	1488.57



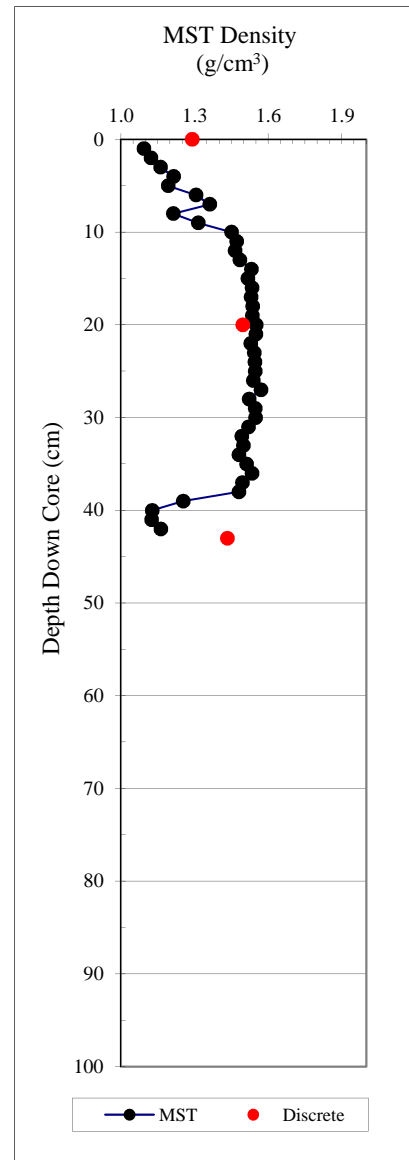
Cruise No: 2005801
 Station: 11
 Sample Type: **Push Core**
 Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
5	1490.63		
6	1500.77		
7	1502.99		
8	1500.33		
9	1498.77		
10	1495.04	1456.18	
11	1493.11		
12	1491.29		
13	1490.27		
14	1490.82		
15	1491.12		
16	1490.79		
17	1490.26		
18	1489.94		
19	1488.85		
20	1486.99	1450.61	
21	1486		
22	1487.11		
23	1486.71		
24	1484.41		
25	1485.29		
26	1485.34		
27	1486.43		
28	1487.83	1453.39	
29	1487.69		
30	1486.43		
31	1485.62		
32	1485.75		
33	1488.57		



Cruise No: 2005801
 Station: L3
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	0.5652	-0.023	
1	1.0934	-0.005	-0.01
2	1.1218	0.010	0.00
3	1.161	0.014	0.02
4	1.2137	0.017	0.03
5	1.1915	0.020	0.05
6	1.3056	0.026	0.08
7	1.3618	0.028	0.11
8	1.213	0.025	0.13
9	1.3146	0.029	0.16
10	1.4509	0.039	0.20
11	1.4708	0.043	0.25
12	1.4652	0.044	0.29
13	1.4838	0.046	0.34
14	1.5312	0.048	0.38
15	1.5164	0.049	0.43
16	1.5332	0.049	0.48
17	1.5293	0.050	0.53
18	1.5364	0.050	0.58
19	1.5356	0.051	0.63
20	1.5513	0.051	0.68
21	1.5498	0.051	0.73
22	1.5286	0.050	0.79
23	1.5423	0.051	0.84
24	1.5456	0.051	0.89
25	1.5463	0.051	0.94
26	1.5386	0.051	0.99
27	1.5699	0.052	1.04
28	1.5224	0.051	1.09
29	1.5473	0.051	1.14
30	1.548	0.051	1.19
31	1.519	0.049	1.24
32	1.4926	0.047	1.29
33	1.498	0.046	1.33
34	1.4803	0.046	1.38
35	1.5112	0.048	1.43
36	1.5335	0.048	1.48
37	1.495	0.047	1.52
38	1.4808	0.040	1.56
39	1.2537	0.025	1.59
40	1.1263	0.013	1.60
41	1.1244	0.011	1.61
42	1.1619	-0.018	1.59
43	-0.1016	-0.024	1.57



Cruise No: 2003801
 Station: L3
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.29	0.49	78.42	2.26	3.63	62.26	164.99
** 20	1.50	-0.15	161.04	0.25	-2.64	110.25	-1076.09
** 43	1.43	0.69	72.56	2.52	2.64	51.83	107.61
averages:	1.41	0.34	104.01	1.67	1.21	74.78	-267.83

very soupy, sediment on lid

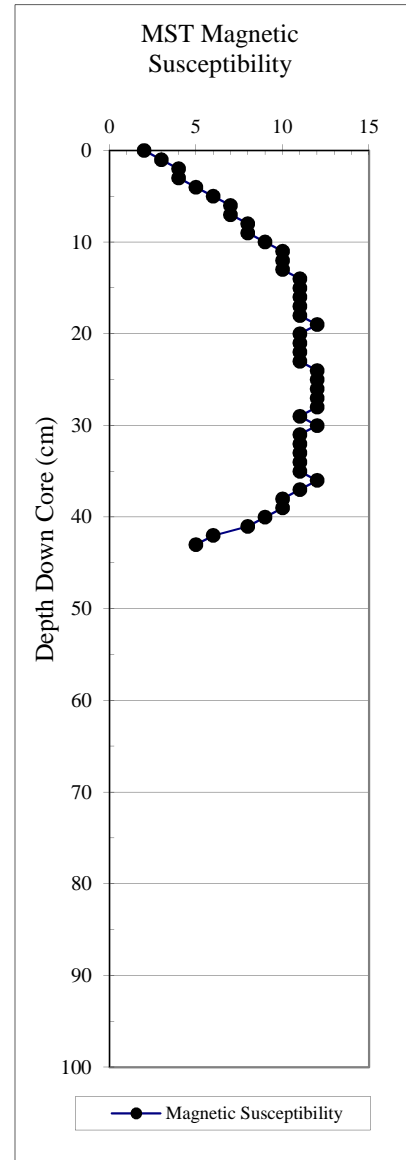
Cruise No: 2005801

Station: 13

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

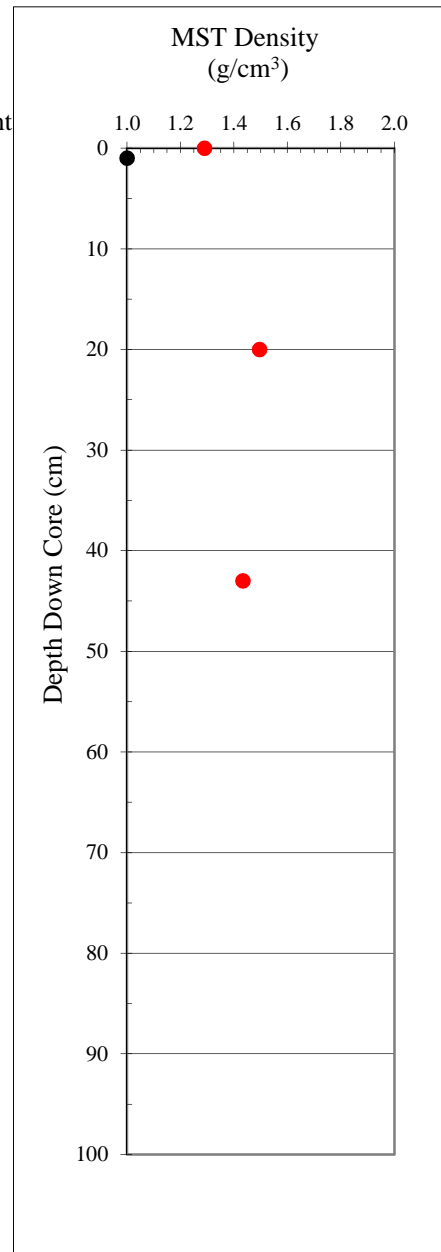
Depth (cm)	MST Magnetic Susceptibility
0	2
1	3
2	4
3	4
4	5
5	6
6	7
7	7
8	8
9	8
10	9
11	10
12	10
13	10
14	11
15	11
16	11
17	11
18	11
19	12
20	11
21	11
22	11
23	11
24	12
25	12
26	12
27	12
28	12
29	11
30	12
31	11
32	11
33	11
34	11
35	11
36	12
37	11
38	10
39	10
40	9
41	8
42	6
43	5



Cruise No: 2005801
 Station: L3
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.29	0.49	78.42	2.26	3.63	62.26	164.99
20	1.50	-0.15	161.04	0.25	-2.64	110.25	-1076.09
** 43	1.43	0.69	72.56	2.52	2.64	51.83	107.61
averages:	1.41	0.34	104.01	1.67	1.21	74.78	-267.83

very soupy, sediment

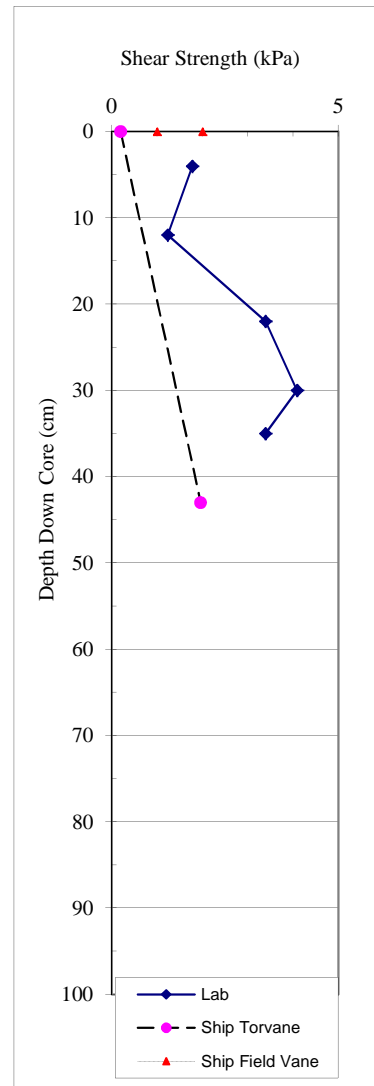


Cruise No: 2003801
 Station: 13
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	1.77	0.77	2.30
12	1.23		
22	3.40	2.24	1.52
30	4.09	1.85	2.21
35	3.40		

Near Disturbed Area

average 2.78



Cruise No: 2003801
 Station: 13
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.2
43.0	2.0

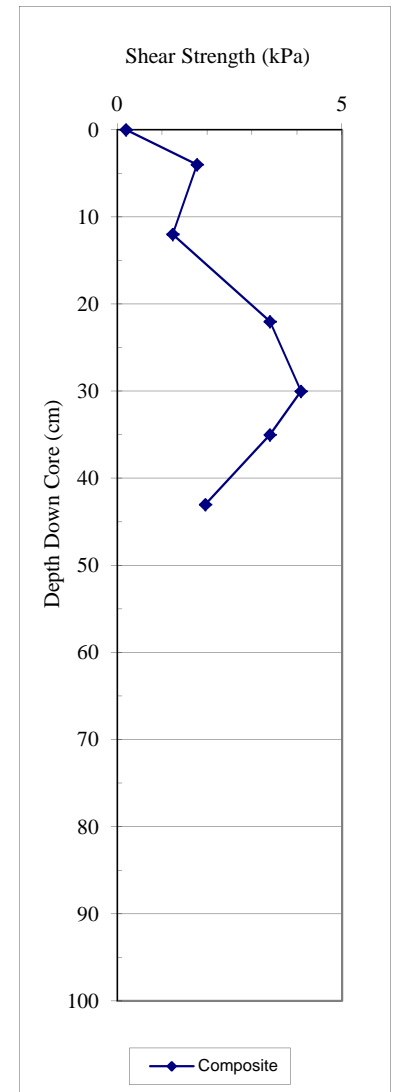
Cruise No: 2003801
 Station: 13
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
4	1.77	0.77
12	1.23	
22	3.40	2.24
30	4.09	1.85
35	3.40	
43.0	1.96	

average 2.29



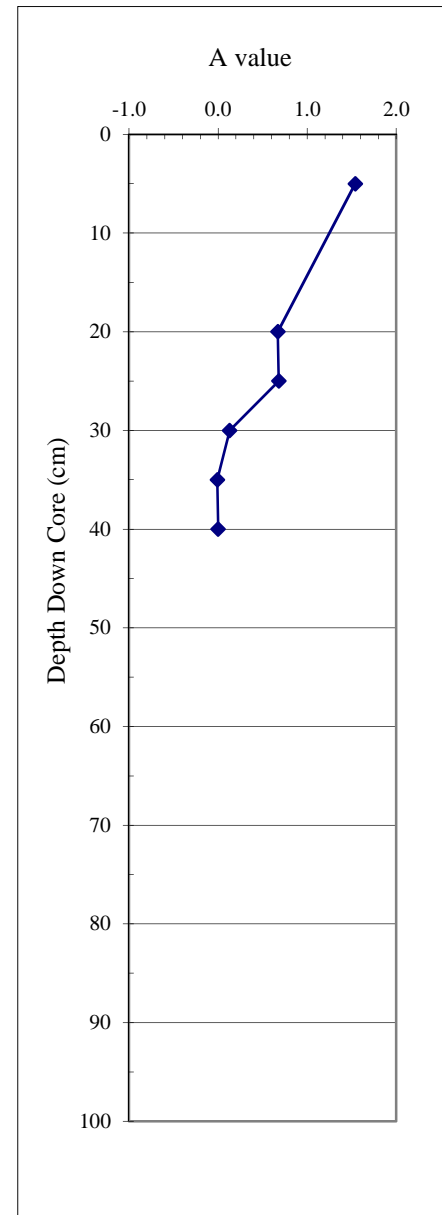
Cruise No: 2003801

Station: L3

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.54	6.59	38
20	0.67	4.01	39.87
25	0.68	3.39	41.44
30	0.13	3.06	38.38
35	-0.01	2.44	38.32
40	0	2.72	37.39
average:	0.50	3.70	38.90



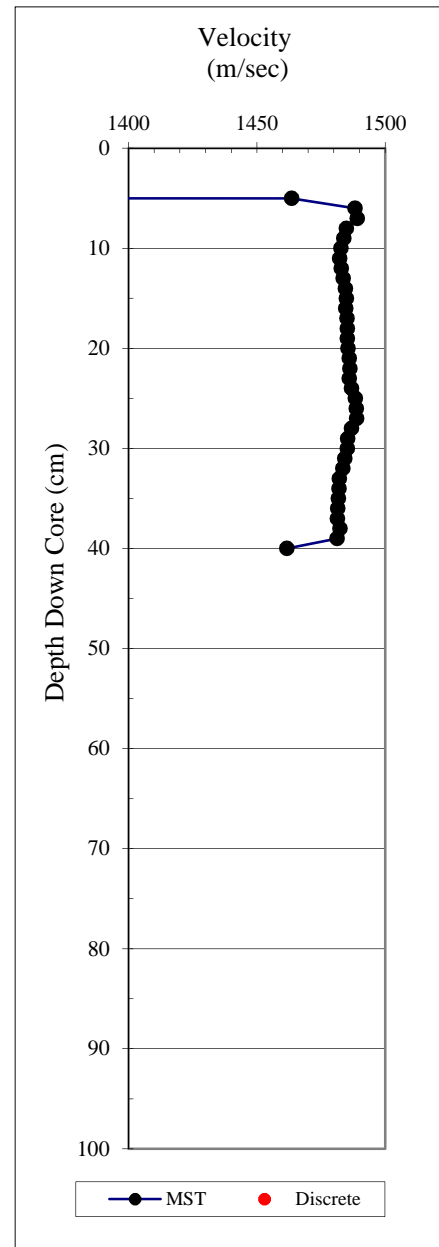
Cruise No: 2005801

Station: L3

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	-11423.57
4	-11377.84
5	1463.5
6	1488.29
7	1489.14
8	1484.92
9	1483.88
10	1482.81
11	1482.26
12	1482.91
13	1483.6
14	1484.5
15	1484.91
16	1484.64
17	1485.09
18	1485.25
19	1485.24
20	1485.53
21	1486
22	1486.25
23	1486.03
24	1486.9
25	1488.32
26	1488.74
27	1488.85
28	1486.87
29	1485.38
30	1485.24
31	1484.23
32	1483.47
33	1482.17
34	1481.95
35	1481.72
36	1481.47
37	1481.42
38	1482.42
39	1481.26
40	1461.71



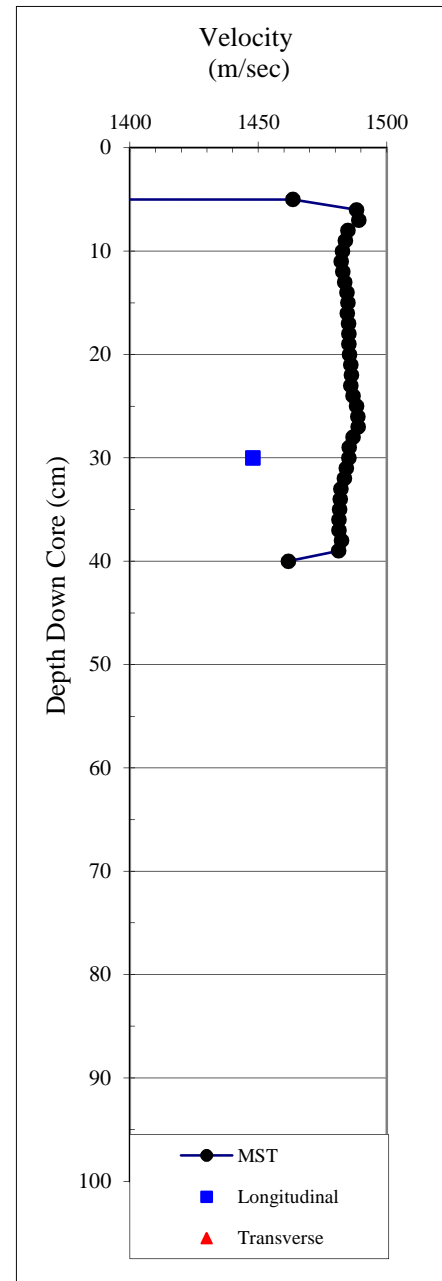
Cruise No: 2005801

Station: L3

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	-11423.57		
4	-11377.84		
5	1463.5		
6	1488.29		
7	1489.14		
8	1484.92		
9	1483.88		
10	1482.81		
11	1482.26		
12	1482.91		
13	1483.6		
14	1484.5		
15	1484.91		
16	1484.64		
17	1485.09		
18	1485.25		
19	1485.24		
20	1485.53		
21	1486		
22	1486.25		
23	1486.03		
24	1486.9		
25	1488.32		
26	1488.74		
27	1488.85		
28	1486.87		
29	1485.38		
30	1485.24	1447.84	
31	1484.23		
32	1483.47		
33	1482.17		
34	1481.95		
35	1481.72		
36	1481.47		
37	1481.42		
38	1482.42		
39	1481.26		
40	1461.71		



Cruise No: 2005801

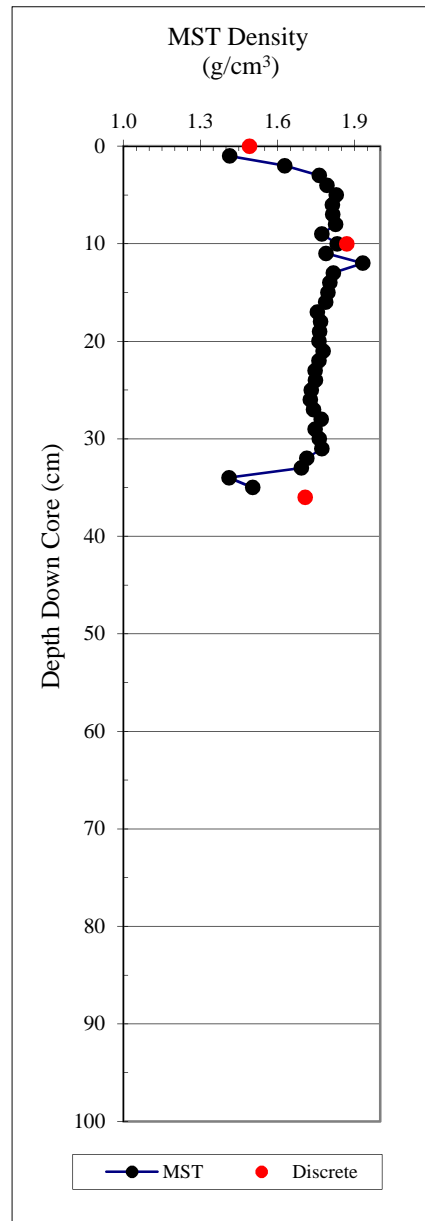
Station: 14

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.399	0.018	
1	1.414	0.043	0.04
2	1.629	0.057	0.10
3	1.763	0.070	0.17
4	1.792	0.076	0.25
5	1.829	0.078	0.32
6	1.814	0.078	0.40
7	1.816	0.078	0.48
8	1.827	0.077	0.56
9	1.773	0.076	0.63
10	1.832	0.077	0.71
11	1.790	0.080	0.79
12	1.933	0.083	0.87
13	1.818	0.080	0.95
14	1.804	0.077	1.03
15	1.796	0.076	1.10
16	1.787	0.074	1.18
17	1.756	0.073	1.25
18	1.768	0.073	1.32
19	1.765	0.073	1.40
20	1.761	0.073	1.47
21	1.778	0.073	1.54
22	1.762	0.072	1.62
23	1.747	0.071	1.69
24	1.749	0.071	1.76
25	1.732	0.070	1.83
26	1.728	0.069	1.90
27	1.741	0.071	1.97
28	1.770	0.072	2.04
29	1.746	0.072	2.11
30	1.762	0.072	2.18
31	1.773	0.072	2.26
32	1.715	0.069	2.32
33	1.693	0.059	2.38
34	1.411	0.047	2.43
35	1.504	0.012	2.44
36	0.147	-0.010	2.43

average 1.693



Cruise No: 2003801

Station: 14

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.49	0.83	64.74	2.35	1.84	44.47	80.09
10	1.87	1.20	65.56	3.48	1.90	35.91	56.03
** 36	1.71	1.14	55.12	2.55	1.23	33.05	49.36
averages:	1.69	1.06	61.81	2.79	1.66	37.81	61.82

sediment on lid

sediment on lid

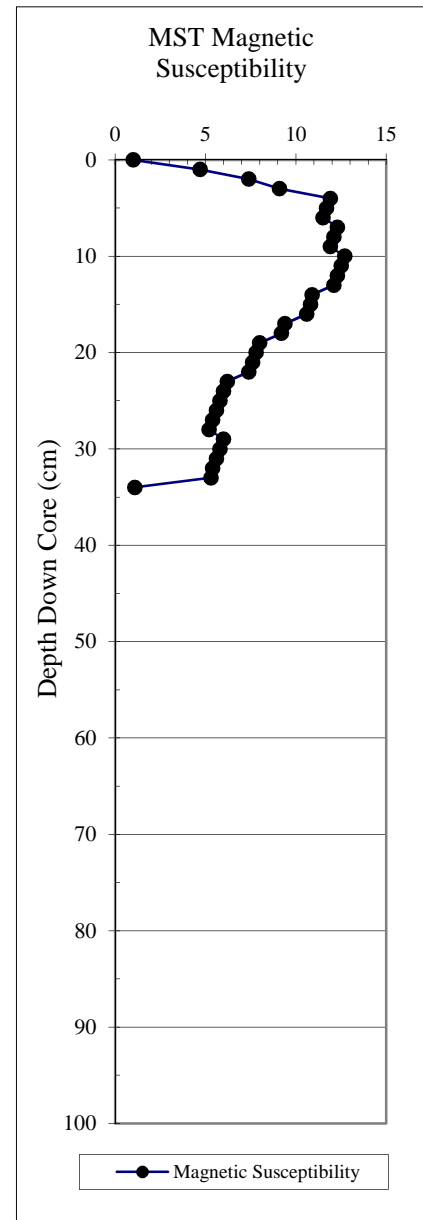
Cruise No: 2005801

Station: 14

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	1
1	4.7
2	7.4
3	9.1
4	11.9
5	11.7
6	11.5
7	12.3
8	12.1
9	11.9
10	12.7
11	12.5
12	12.3
13	12.1
14	10.9
15	10.8
16	10.6
17	9.4
18	9.2
19	8
20	7.8
21	7.6
22	7.4
23	6.2
24	6
25	5.8
26	5.6
27	5.4
28	5.2
29	6
30	5.8
31	5.6
32	5.4
33	5.3
34	1.1
35	0.1
36	5.3



Cruise No: 2005801

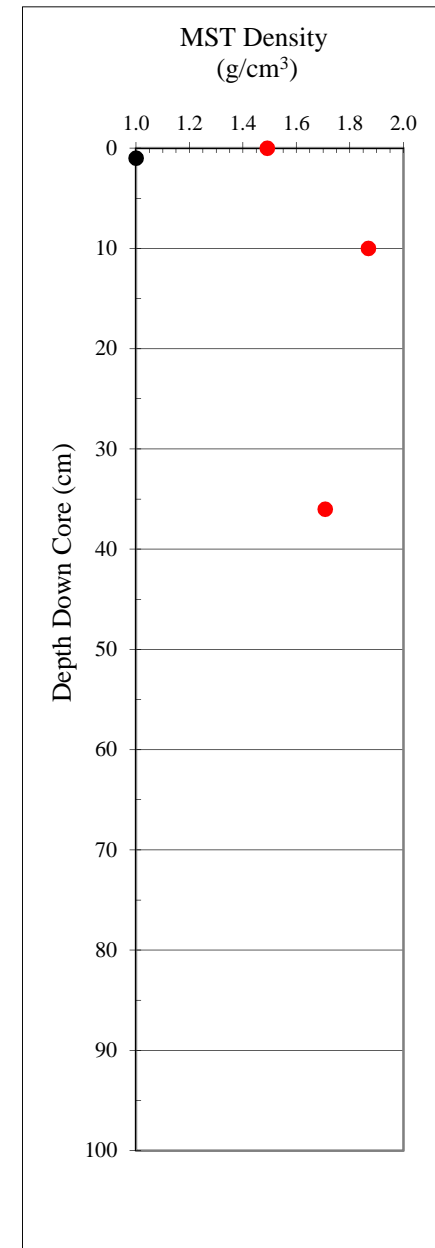
Station: 14

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.49	0.83	64.74	2.35	1.84	44.47	80.09	sediment on lid
10	1.87	1.20	65.56	3.48	1.90	35.91	56.03	
** 36	1.71	1.14	55.12	2.55	1.23	33.05	49.36	sediment on lid
averages:	1.69	1.06	61.81	2.79	1.66	37.81	61.82	



Cruise No: 2003801

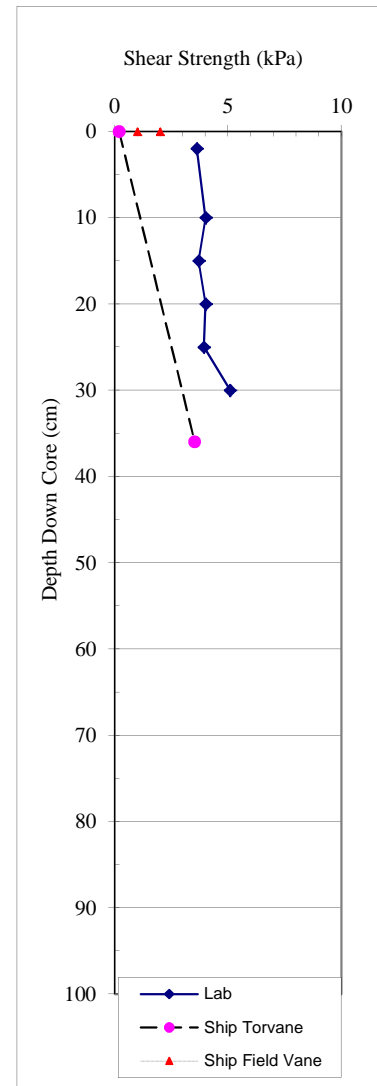
Station: 14

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
2	3.63	1.23	2.94
10	4.01	3.16	1.27
15	3.70		
20	4.01	3.70	1.08
25	3.94		
30	5.09	0.85	6.00

average 4.06



Cruise No: 2003801

Station: 14

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
0.0	0.2
36.0	3.5

Cruise No: 2003801

Station: 14

Sample Type: Push Core

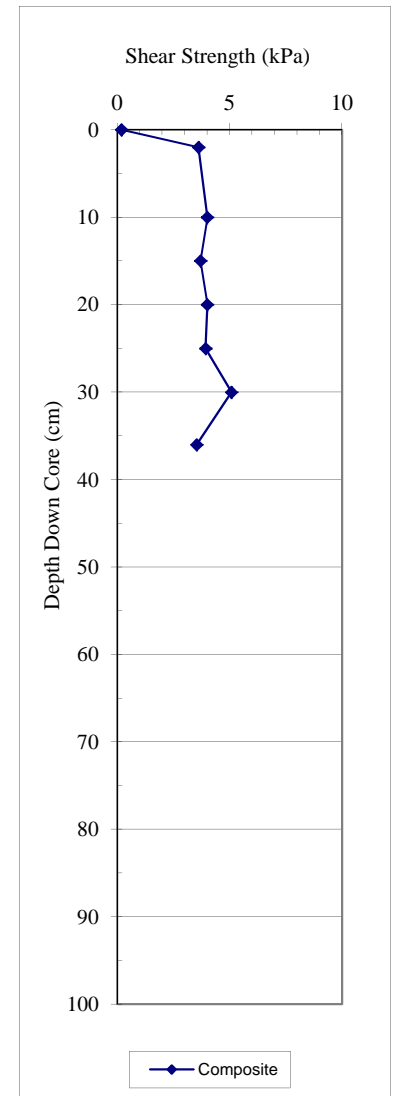
Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
2	3.63	1.23
10	4.01	
15	3.70	0.00
20	4.01	3.70
25	3.94	
30	5.09	0.85
36.0	3.53	

average 3.51



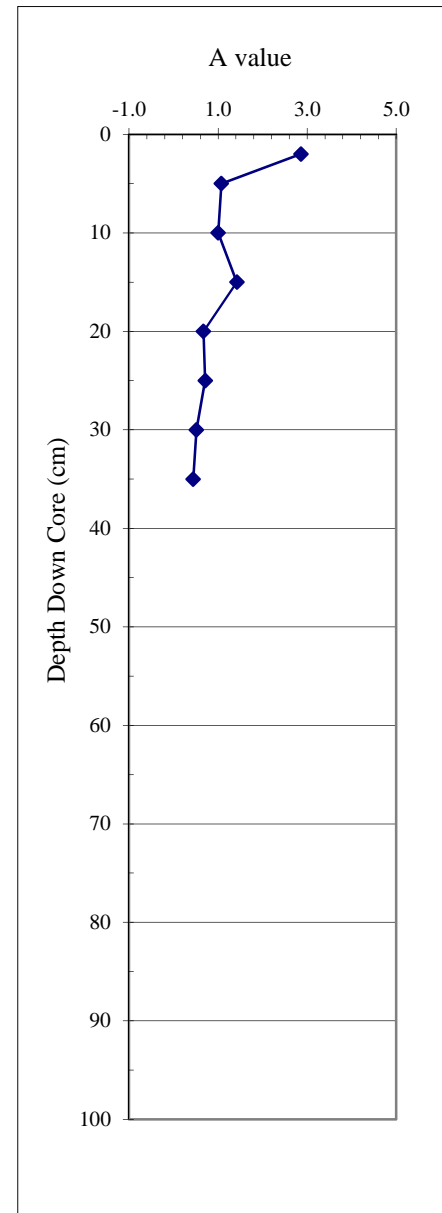
Cruise No: 2003801

Station: 14

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	2.86	8.92	38.1
5	1.07	4.29	38.4
10	1	4.02	38.36
15	1.42	6.11	38.7
20	0.67	3.37	41.03
25	0.71	3.65	38.7
30	0.51	3.43	39.67
35	0.44	2.81	36.43
average	1.09		



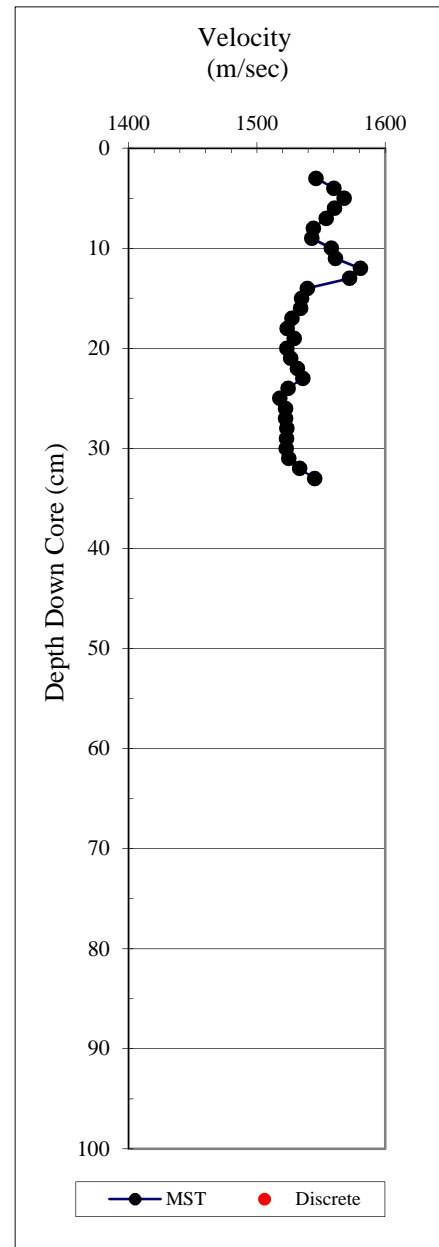
Cruise No: 2005801

Station: 14

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1545.94
4	1559.92
5	1567.95
6	1560.57
7	1554
8	1544.07
9	1542.88
10	1558.07
11	1561.18
12	1580.67
13	1572.36
14	1539.22
15	1534.92
16	1534.11
17	1527.26
18	1523.57
19	1528.97
20	1523.44
21	1526.43
22	1531.69
23	1535.75
24	1524.28
25	1517.8
26	1522.23
27	1522.32
28	1523.47
29	1523.06
30	1522.85
31	1524.79
32	1533.26
33	1545



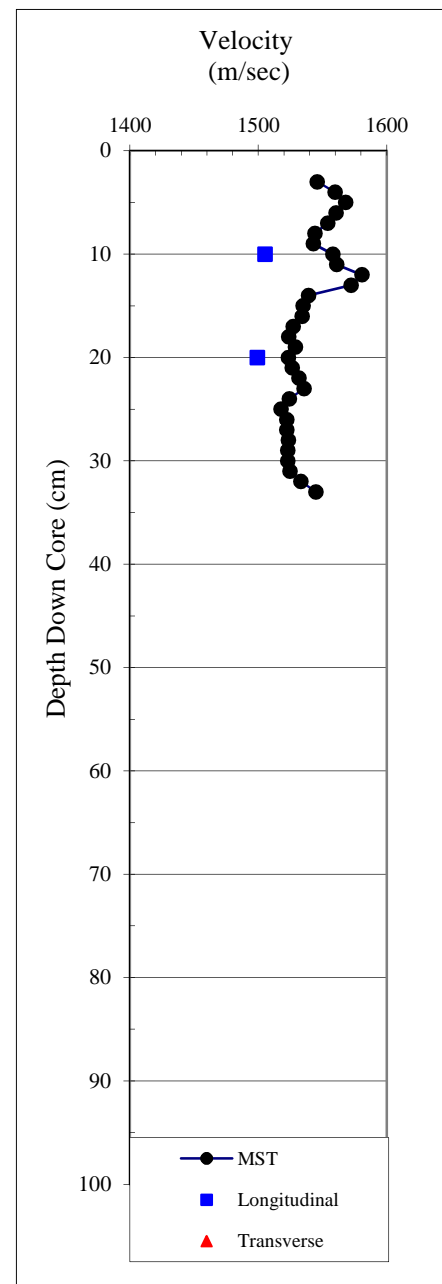
Cruise No: 2005801

Station: 14

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1545.94		
4	1559.92		
5	1567.95		
6	1560.57		
7	1554		
8	1544.07		
9	1542.88		
10	1558.07	1505.3	
11	1561.18		
12	1580.67		
13	1572.36		
14	1539.22		
15	1534.92		
16	1534.11		
17	1527.26		
18	1523.57		
19	1528.97		
20	1523.44	1499.35	
21	1526.43		
22	1531.69		
23	1535.75		
24	1524.28		
25	1517.8		
26	1522.23		
27	1522.32		
28	1523.47		
29	1523.06		
30	1522.85		
31	1524.79		
32	1533.26		
33	1545		



Cruise No: 2005801

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

Station: 16

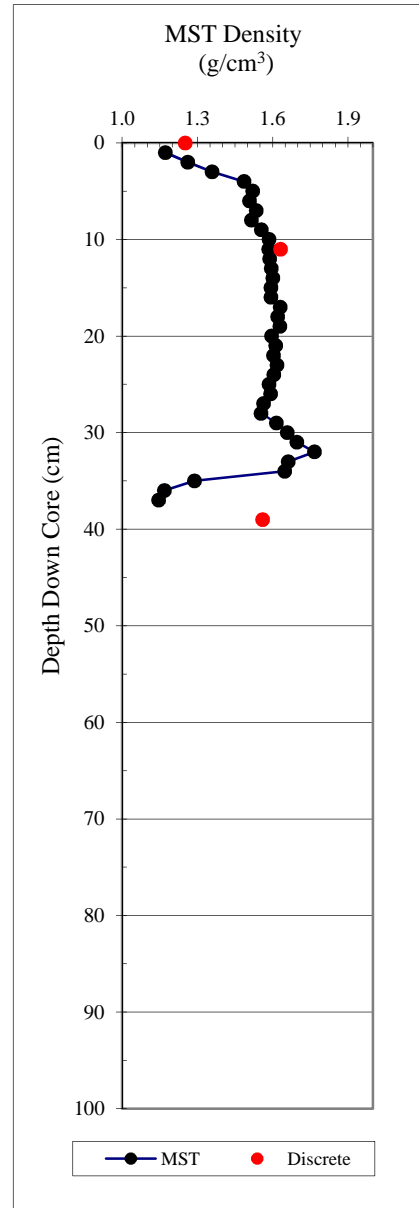
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.025	0.000	
1	1.172	0.013	0.01
2	1.261	0.023	0.04
3	1.358	0.034	0.07
4	1.485	0.043	0.11
5	1.520	0.048	0.16
6	1.508	0.048	0.21
7	1.535	0.049	0.26
8	1.516	0.050	0.31
9	1.555	0.052	0.36
10	1.585	0.054	0.41
11	1.584	0.055	0.47
12	1.588	0.055	0.52
13	1.594	0.056	0.58
14	1.601	0.056	0.64
15	1.594	0.056	0.69
16	1.593	0.057	0.75
17	1.630	0.058	0.81
18	1.619	0.059	0.87
19	1.629	0.058	0.92
20	1.596	0.057	0.98
21	1.612	0.057	1.04
22	1.603	0.057	1.10
23	1.617	0.058	1.15
24	1.605	0.057	1.21
25	1.585	0.056	1.27
26	1.592	0.055	1.32
27	1.564	0.053	1.37
28	1.554	0.054	1.43
29	1.615	0.058	1.49
30	1.658	0.062	1.55
31	1.697	0.067	1.62
32	1.766	0.069	1.68
33	1.662	0.065	1.75
34	1.648	0.053	1.80
35	1.288	0.032	1.83
36	1.169	0.017	1.85
37	1.145	0.003	1.85
38	0.752	-0.041	1.81
39	-0.231	-0.037	1.77

average 1.461



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.51	72.01	1.84	2.57	58.91	143.39
** 11	1.63	0.81	80.01	4.06	4.00	50.23	100.94
** 39	1.56	0.88	66.48	2.62	1.98	43.63	77.40
averages:	1.48	0.74	72.83	2.84	2.85	50.93	107.24

sandy brown 10yr 3/4, sediment on lid

sediment on lid

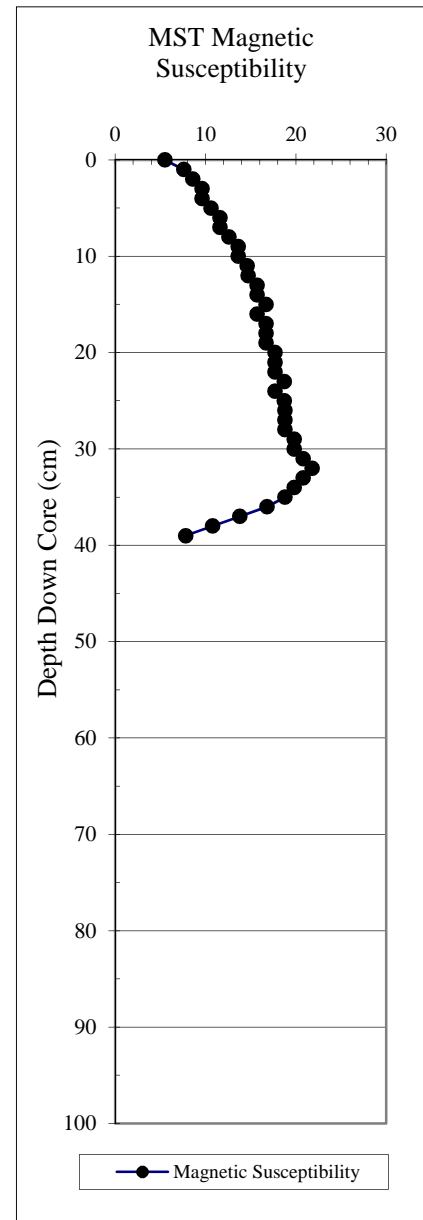
Cruise No: 2005801

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	5.5
1	7.6
2	8.6
3	9.6
4	9.6
5	10.6
6	11.6
7	11.6
8	12.6
9	13.6
10	13.6
11	14.6
12	14.7
13	15.7
14	15.7
15	16.7
16	15.7
17	16.7
18	16.7
19	16.7
20	17.7
21	17.7
22	17.7
23	18.7
24	17.7
25	18.7
26	18.8
27	18.8
28	18.8
29	19.8
30	19.8
31	20.8
32	21.8
33	20.8
34	19.8
35	18.8
36	16.8
37	13.8
38	10.8
39	7.8



Cruise No: 2005801

Station: 16

Sample Type: Push Core

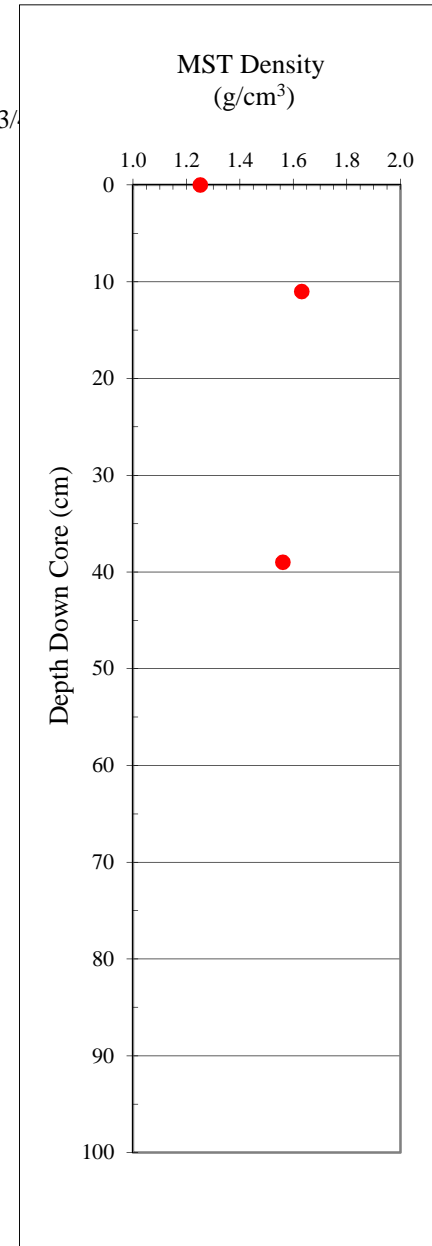
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.51	72.01	1.84	2.57	58.91	143.39
11	1.63	0.81	80.01	4.06	4.00	50.23	100.94
** 39	1.56	0.88	66.48	2.62	1.98	43.63	77.40
averages:	1.48	0.74	72.83	2.84	2.85	50.93	107.24

sandy brown 10yr 3/4

sediment on lid

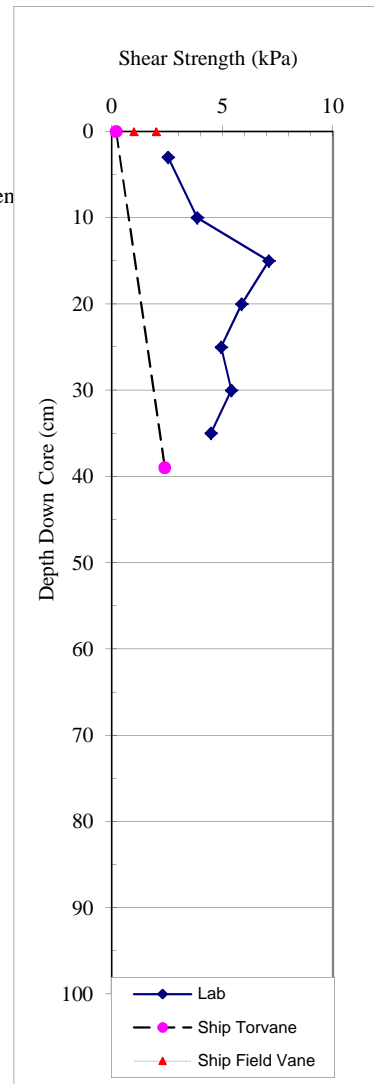


Cruise No: 2003801
 Station: 16
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.546	2.161	1.18
10	3.858	3.395	1.14
15	7.099	5.401	1.31
20	5.864	1.312	4.47
25	4.938		
30	5.401	4.167	1.30
35	4.475		

average 4.88

Vane may not have been turned en



Cruise No: 2003801
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
39.0	2.40

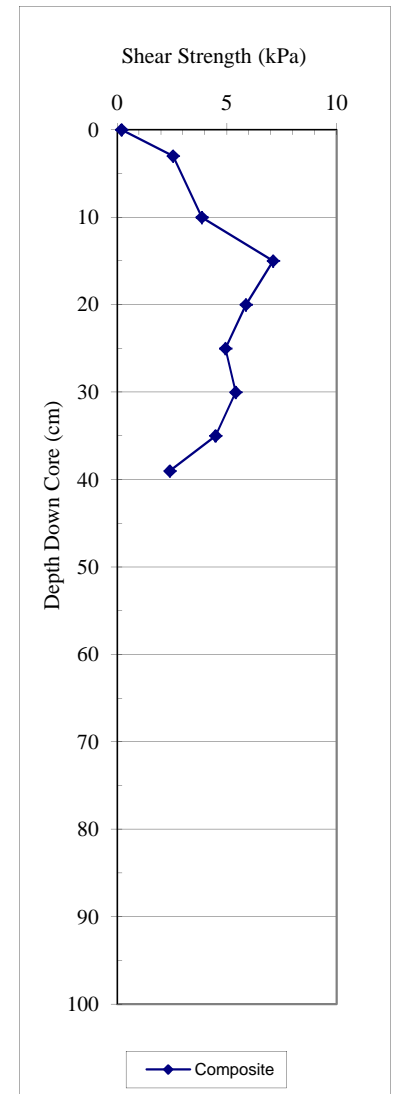
Cruise No: 2003801
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
3	2.55	2.16
10	3.86	3.40
15	7.10	5.40
20	5.86	1.31
25	4.94	
30	5.40	4.17
35	4.5	
39.0	2.40	

average 4.09



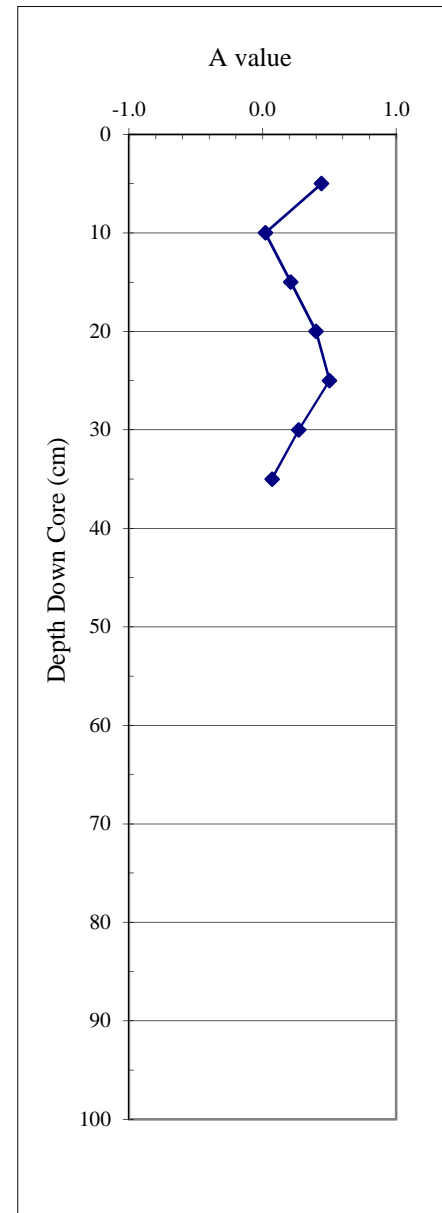
Cruise No: 2003801

Station: 16

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.44	2.8	41.81
10	0.02	2.11	41.03
15	0.21	2.48	40.57
20	0.4	3.18	38.73
25	0.5	3.65	36.72
30	0.27	2.67	41.7
35	0.07	1.66	38.56
average	0.27		



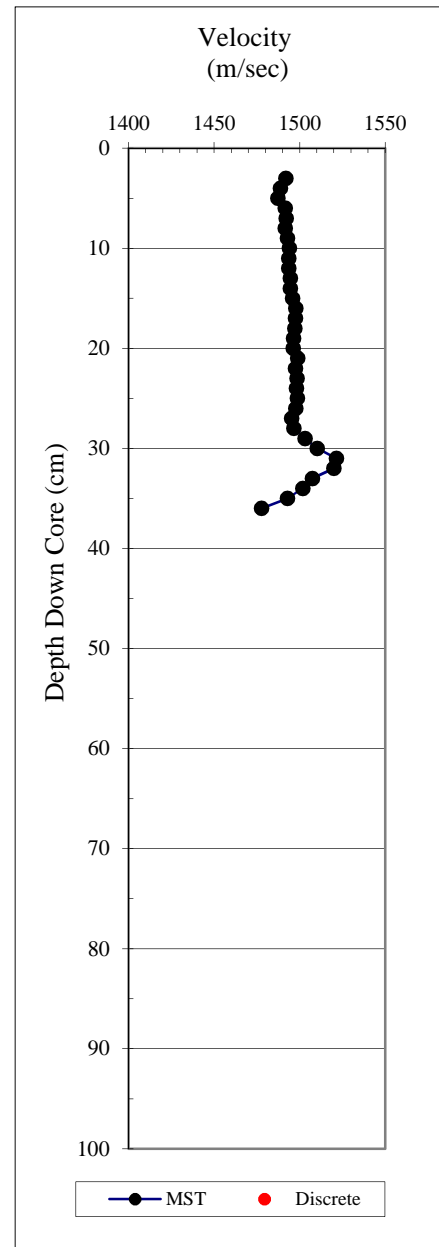
Cruise No: 2005801

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1491.88
4	1488.8
5	1487.32
6	1491.66
7	1492.15
8	1491.52
9	1492.9
10	1494.05
11	1493.61
12	1493.58
13	1494.62
14	1494.58
15	1495.85
16	1497.7
17	1497.57
18	1497.12
19	1496.35
20	1496.25
21	1498.89
22	1497.62
23	1498.59
24	1498.12
25	1498.7
26	1497.7
27	1495.3
28	1496.63
29	1503.09
30	1510.24
31	1521.48
32	1519.96
33	1507.47
34	1501.78
35	1492.83
36	1477.71



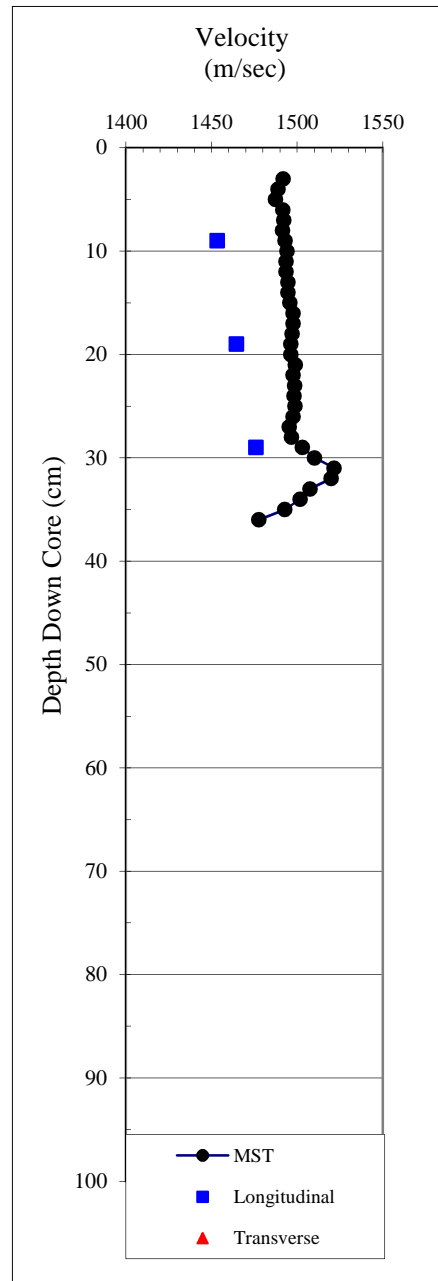
Cruise No: 2005801

Station: 16

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1491.88		
4	1488.8		
5	1487.32		
6	1491.66		
7	1492.15		
8	1491.52		
9	1492.9	1453.41	
10	1494.05		
11	1493.61		
12	1493.58		
13	1494.62		
14	1494.58		
15	1495.85		
16	1497.7		
17	1497.57		
18	1497.12		
19	1496.35	1464.63	
20	1496.25		
21	1498.89		
22	1497.62		
23	1498.59		
24	1498.12		
25	1498.7		
26	1497.7		
27	1495.3		
28	1496.63		
29	1503.09	1476.02	
30	1510.24		
31	1521.48		
32	1519.96		
33	1507.47		
34	1501.78		
35	1492.83		
36	1477.71		



Cruise No: 2005801

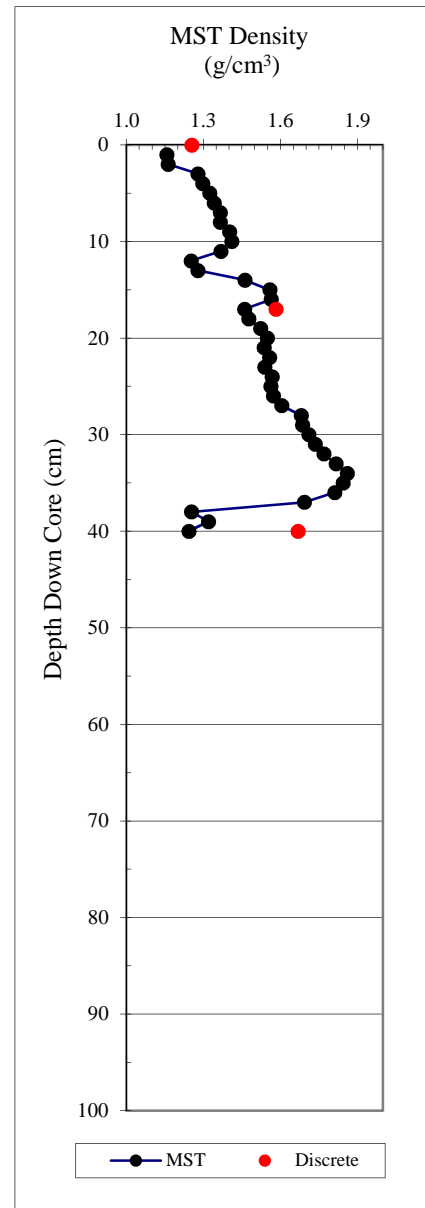
Station: 22

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.129	0.005	
1	1.157	0.012	0.01
2	1.162	0.016	0.03
3	1.278	0.023	0.05
4	1.297	0.027	0.08
5	1.324	0.029	0.11
6	1.342	0.031	0.14
7	1.366	0.033	0.17
8	1.365	0.034	0.21
9	1.401	0.036	0.24
10	1.410	0.037	0.28
11	1.368	0.032	0.31
12	1.251	0.026	0.34
13	1.278	0.029	0.37
14	1.461	0.041	0.41
15	1.558	0.050	0.46
16	1.564	0.050	0.51
17	1.460	0.046	0.55
18	1.477	0.045	0.60
19	1.523	0.048	0.65
20	1.549	0.051	0.70
21	1.537	0.051	0.75
22	1.557	0.051	0.80
23	1.538	0.052	0.85
24	1.567	0.052	0.90
25	1.562	0.053	0.96
26	1.572	0.054	1.01
27	1.605	0.058	1.07
28	1.680	0.063	1.13
29	1.685	0.065	1.20
30	1.711	0.067	1.26
31	1.735	0.070	1.33
32	1.769	0.073	1.41
33	1.817	0.078	1.49
34	1.861	0.081	1.57
35	1.844	0.080	1.65
36	1.812	0.075	1.72
37	1.693	0.058	1.78
38	1.253	0.035	1.81
39	1.320	0.025	1.84
40	1.243	0.013	1.85

average 1.490



Cruise No: 2003801

Station: 22

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.47	77.10	2.03	3.37	62.93	169.74
17	1.58	0.89	67.16	2.72	2.05	43.46	76.86
** 40	1.67	1.05	59.99	2.63	1.50	36.82	58.28
averages:	1.50	0.80	68.08	2.46	2.30	47.74	101.63

sediment on lid

5Y 3/2

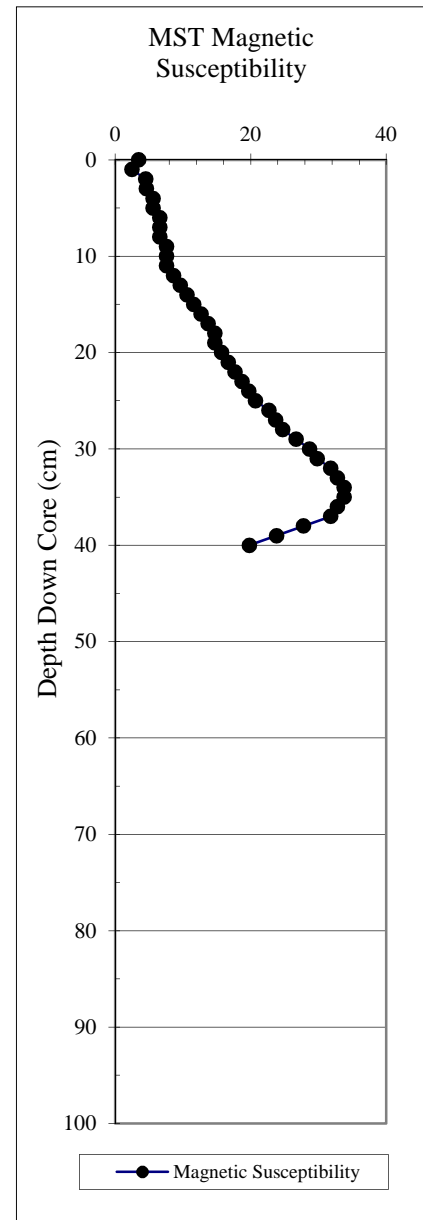
Cruise No: 2005801

Station: 22

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

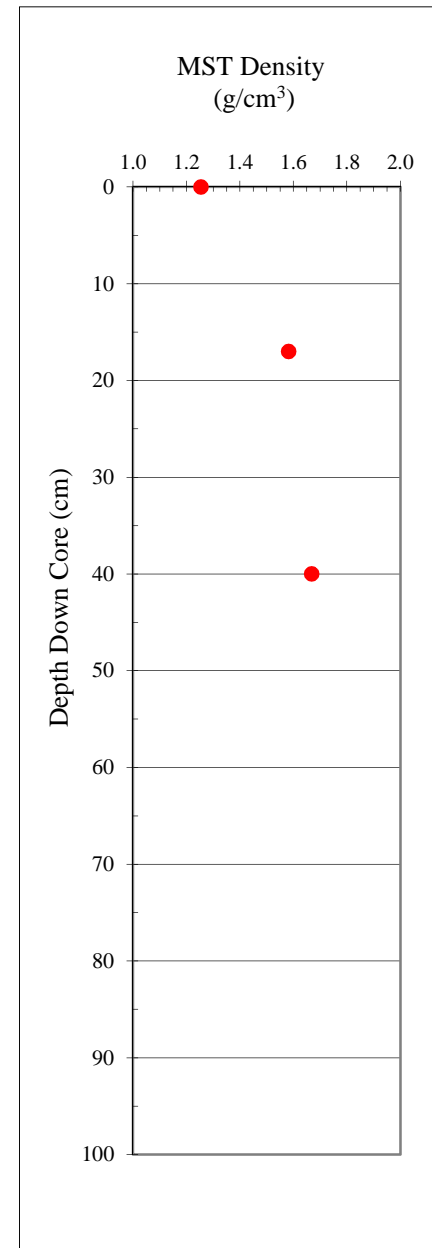
Depth (cm)	MST Magnetic Susceptibility
0	3.5
1	2.5
2	4.5
3	4.6
4	5.6
5	5.6
6	6.6
7	6.6
8	6.6
9	7.6
10	7.6
11	7.6
12	8.6
13	9.6
14	10.6
15	11.6
16	12.7
17	13.7
18	14.7
19	14.7
20	15.7
21	16.7
22	17.7
23	18.7
24	19.7
25	20.7
26	22.7
27	23.7
28	24.7
29	26.7
30	28.7
31	29.8
32	31.8
33	32.8
34	33.8
35	33.8
36	32.8
37	31.8
38	27.8
39	23.8
40	19.8



Cruise No: 2005801
 Station: 22
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.47	77.10	2.03	3.37	62.93	169.74
17	1.58	0.89	67.16	2.72	2.05	43.46	76.86
** 40	1.67	1.05	59.99	2.63	1.50	36.82	58.28
averages:	1.50	0.80	68.08	2.46	2.30	47.74	101.63

sediment on lid
5Y 3/2

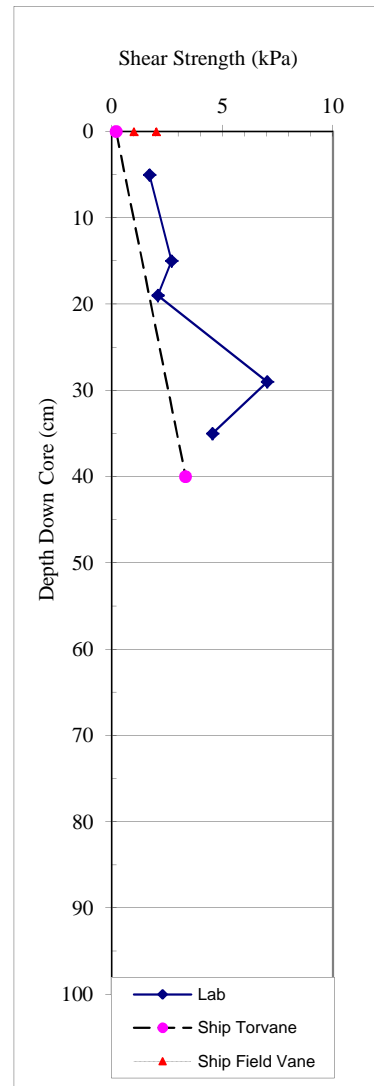


Cruise No: 2003801
 Station: 22
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	1.698		
15	2.701	0.694	3.89
19	2.083		
29	7.022	0.386	18.20
35	4.552	1.003	4.54

average 3.61

Disturbed Uneven Surface



Cruise No: 2003801
 Station: 22
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
40.0	3.33

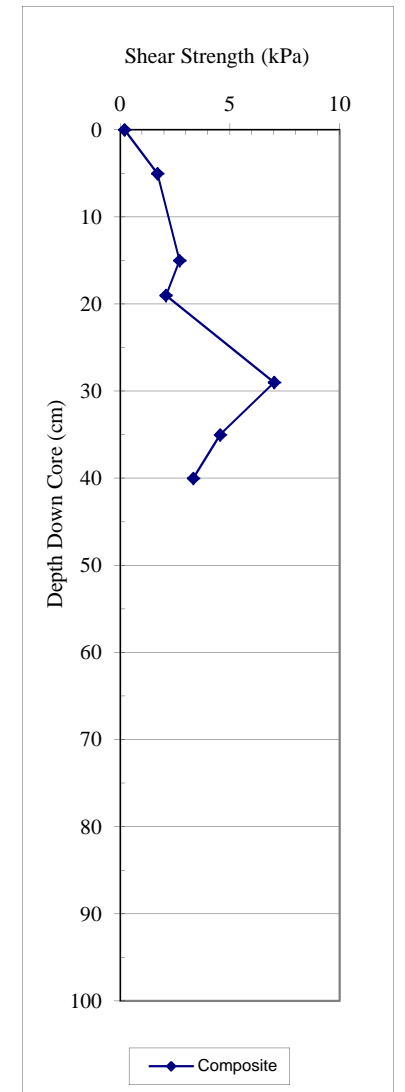
Cruise No: 2003801
 Station: 22
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
5	1.70	
15	2.70	0.69
19	2.08	
29	7.02	0.39
35	4.55	1.00
40.0	3.33	

average 3.08



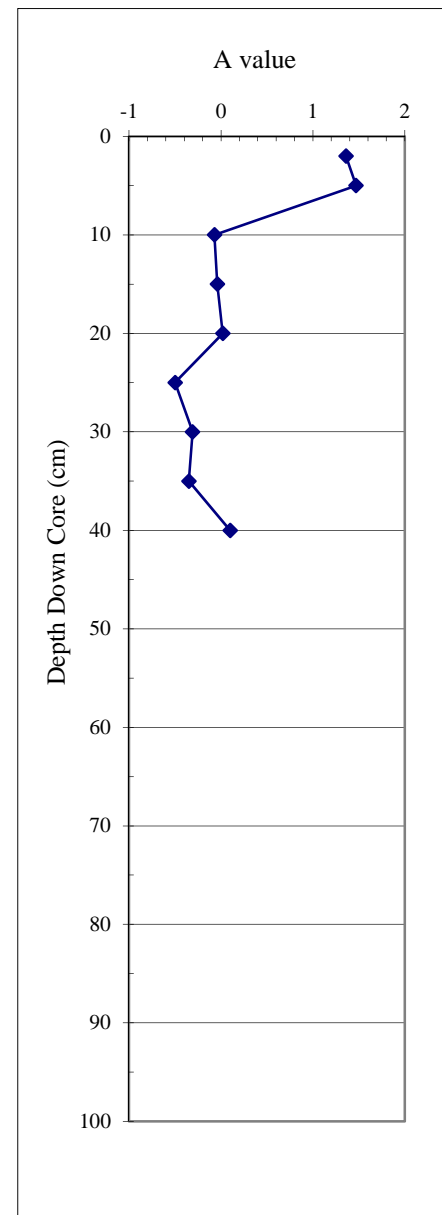
Cruise No: 2003801

Station: 22

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	1.36	5.32	40.75
5	1.47	6.07	38.15
10	-0.07	1.82	39.34
15	-0.04	2.24	36.73
20	0.02	2.33	34.99
25	-0.5	0.83	34.68
30	-0.31	1.29	35.8
35	-0.35	0.52	37.7
40	0.1	2.86	34.55
average	0.19	2.59	36.97



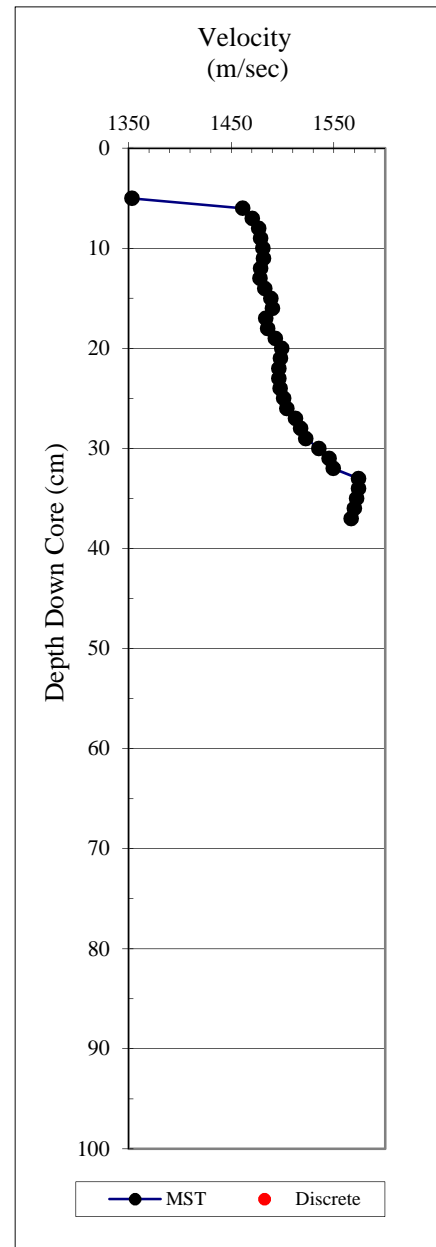
Cruise No: 2005801

Station: 22

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	11267.48
4	11238.74
5	1353.26
6	1461.29
7	1470.44
8	1476.89
9	1478.78
10	1480.72
11	1481.3
12	1478.63
13	1478.04
14	1482.77
15	1488.46
16	1490.3
17	1483.62
18	1485.53
19	1492.93
20	1499.2
21	1497.98
22	1496.5
23	1496.24
24	1497.71
25	1500.94
26	1504.22
27	1512.61
28	1517.45
29	1522.51
30	1535.49
31	1545.24
32	1549.41
33	1573.92
34	1573.95
35	1572.16
36	1570.04
37	1567.01



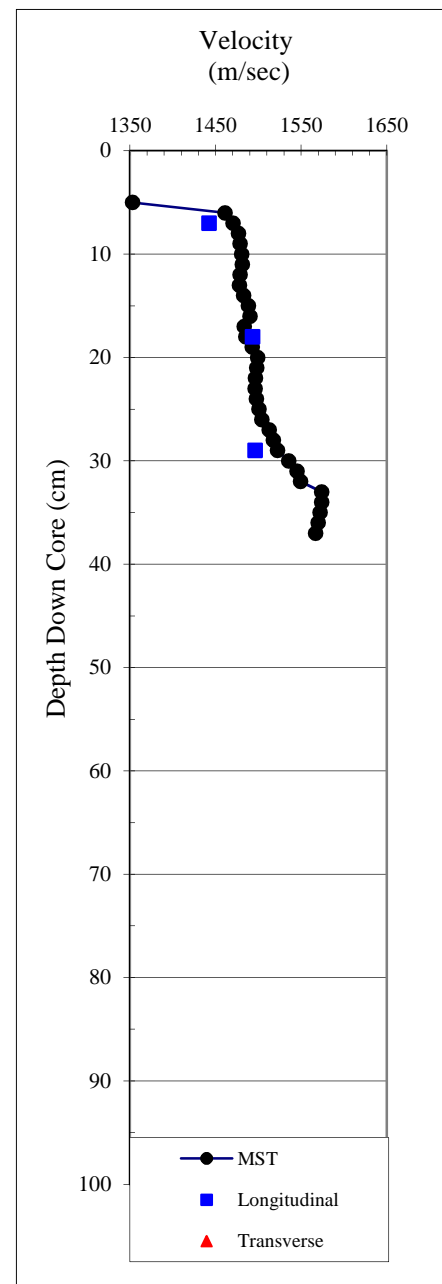
Cruise No: 2005801

Station: 22

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	-11267.48		
4	-11238.74		
5	1353.26		
6	1461.29		
7	1470.44	1442.36	
8	1476.89		
9	1478.78		
10	1480.72		
11	1481.3		
12	1478.63		
13	1478.04		
14	1482.77		
15	1488.46		
16	1490.3		
17	1483.62		
18	1485.53	1493.44	
19	1492.93		
20	1499.2		
21	1497.98		
22	1496.5		
23	1496.24		
24	1497.71		
25	1500.94		
26	1504.22		
27	1512.61		
28	1517.45		
29	1522.51	1496.39	
30	1535.49		
31	1545.24		
32	1549.41		
33	1573.92		
34	1573.95		
35	1572.16		
36	1570.04		
37	1567.01		



Cruise No: 2005801

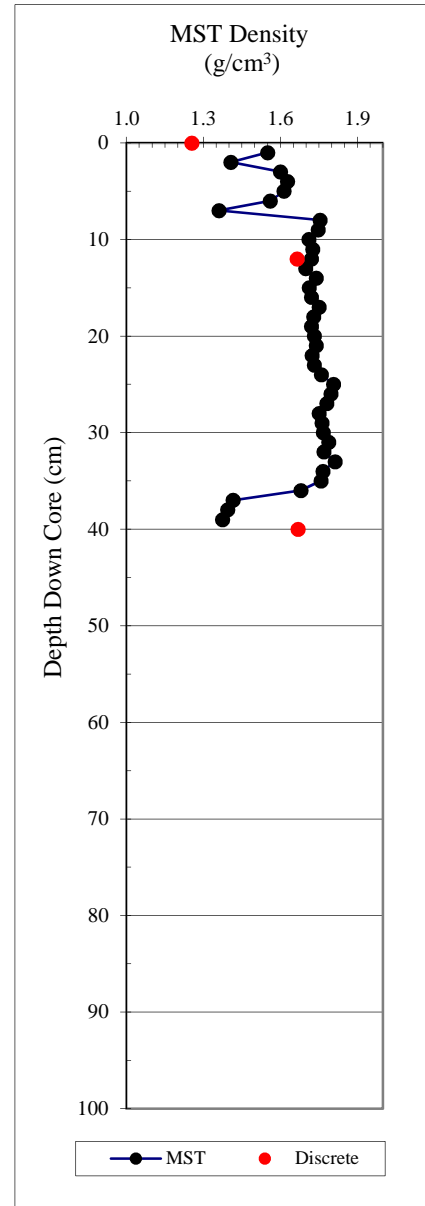
Station: 32

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.4621	0.021	
1	1.5493	0.046	0.05
2	1.407	0.046	0.09
3	1.6	0.052	0.14
4	1.6276	0.058	0.20
5	1.6136	0.057	0.26
6	1.5601	0.049	0.31
7	1.3598	0.048	0.36
8	1.7538	0.062	0.42
9	1.7466	0.070	0.49
10	1.7107	0.069	0.56
11	1.725	0.068	0.62
12	1.7202	0.068	0.69
13	1.6979	0.068	0.76
14	1.7388	0.068	0.83
15	1.7118	0.068	0.90
16	1.7201	0.069	0.97
17	1.7505	0.070	1.04
18	1.7287	0.069	1.11
19	1.7211	0.069	1.17
20	1.732	0.069	1.24
21	1.7398	0.070	1.31
22	1.7235	0.069	1.38
23	1.7318	0.070	1.45
24	1.759	0.073	1.52
25	1.8071	0.075	1.60
26	1.7965	0.076	1.68
27	1.7808	0.074	1.75
28	1.7505	0.072	1.82
29	1.7616	0.072	1.89
30	1.7669	0.073	1.97
31	1.7874	0.074	2.04
32	1.7687	0.075	2.12
33	1.8122	0.075	2.19
34	1.7657	0.074	2.26
35	1.7579	0.070	2.34
36	1.6792	0.060	2.39
37	1.4146	0.044	2.44
38	1.3935	0.036	2.48
39	1.3737	0.005	2.48
40	0.1652	-0.012	2.47

average 1.638



Cruise No: 2003801

Station: 32

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.47	77.10	2.03	3.37	62.93	169.74
12	1.66	1.05	60.26	2.64	1.52	37.06	58.89
** 40	1.67	1.05	59.99	2.63	1.50	36.82	58.28
averages:	1.53	0.86	65.78	2.43	2.13	45.60	95.64

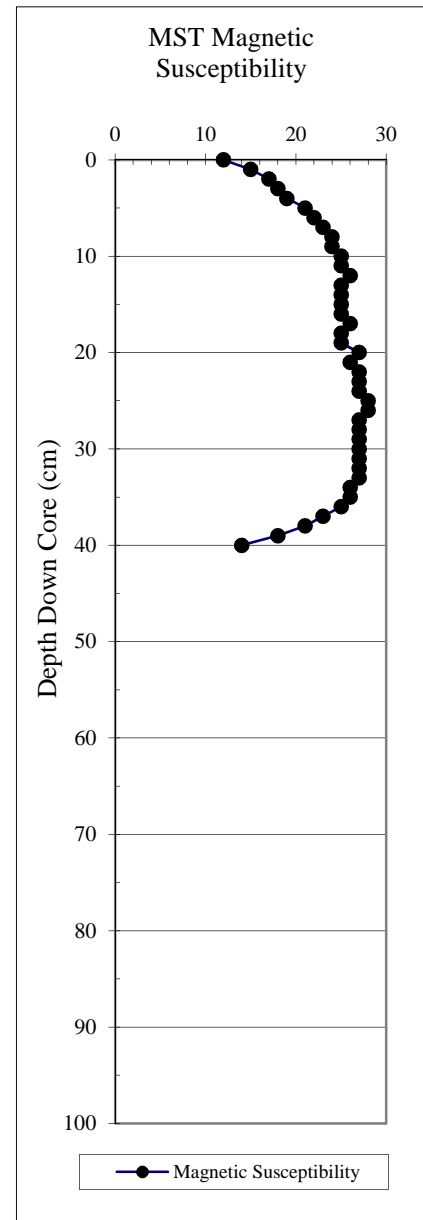
Cruise No: 2005801

Station: 32

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	12
1	15
2	17
3	18
4	19
5	21
6	22
7	23
8	24
9	24
10	25
11	25
12	26
13	25
14	25
15	25
16	25
17	26
18	25
19	25
20	27
21	26
22	27
23	27
24	27
25	28
26	28
27	27
28	27
29	27
30	27
31	27
32	27
33	27
34	26
35	26
36	25
37	23
38	21
39	18
40	14



Cruise No: 2005801

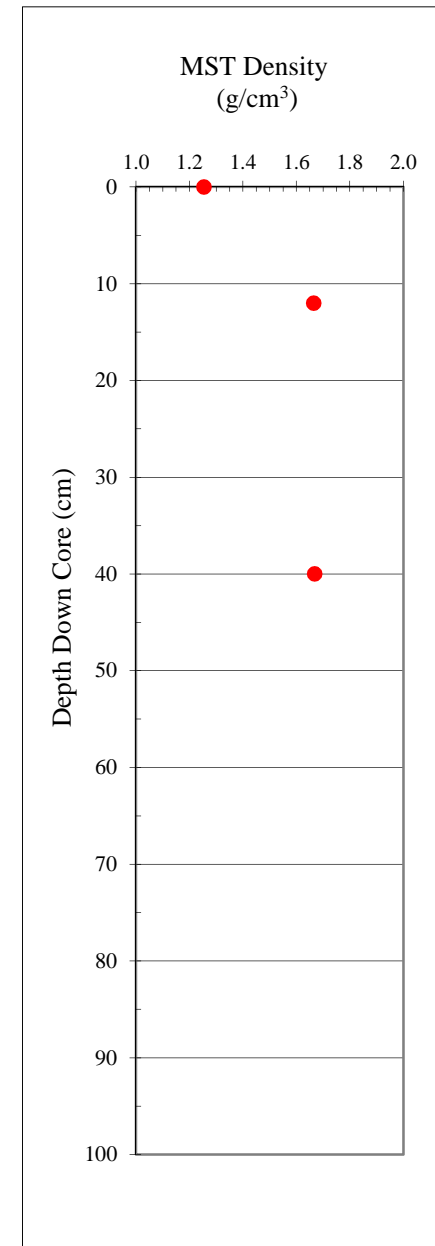
Station: 32

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.25	0.47	77.10	2.03	3.37	62.93	169.74
12	1.66	1.05	60.26	2.64	1.52	37.06	58.89
** 40	1.67	1.05	59.99	2.63	1.50	36.82	58.28
averages:	1.53	0.86	65.78	2.43	2.13	45.60	95.64

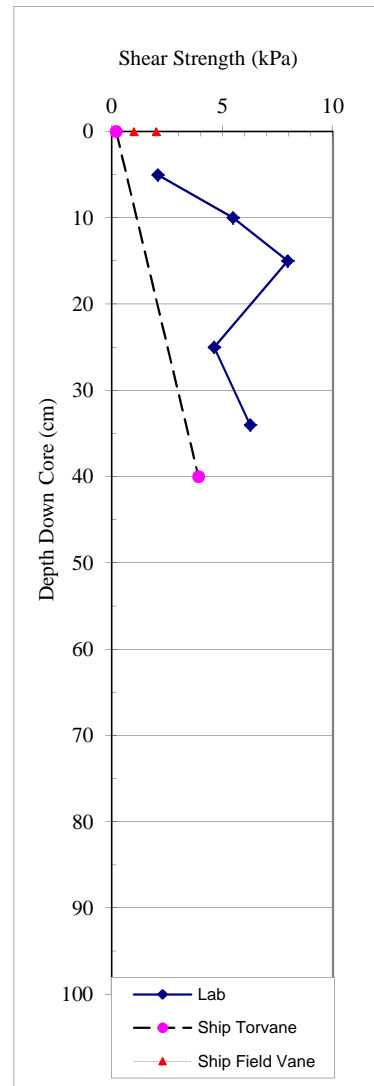


Cruise No: 2003801
 Station: 32
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	2.083	1.852	1.12
10	5.478	0.386	14.20
15	7.948		
25	4.630	0.463	10.00
34	6.250	1.080	5.79

average 5.28

Disturbed Uneven Surface



Cruise No: 2003801
 Station: 32
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
40.0	3.92

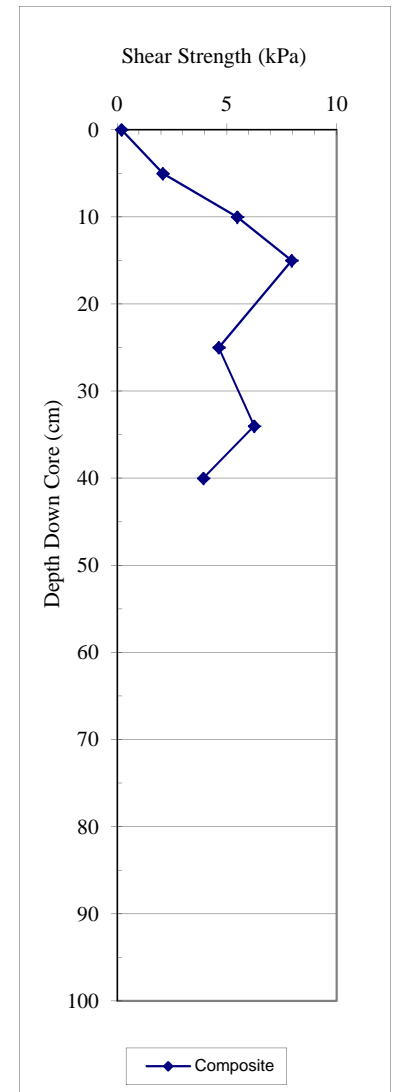
Cruise No: 2003801
 Station: 32
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
5	2.08	
10	5.48	0.39
15	7.95	
25	4.63	0.46
34	6.25	1.08
40.0	3.92	

average 4.36



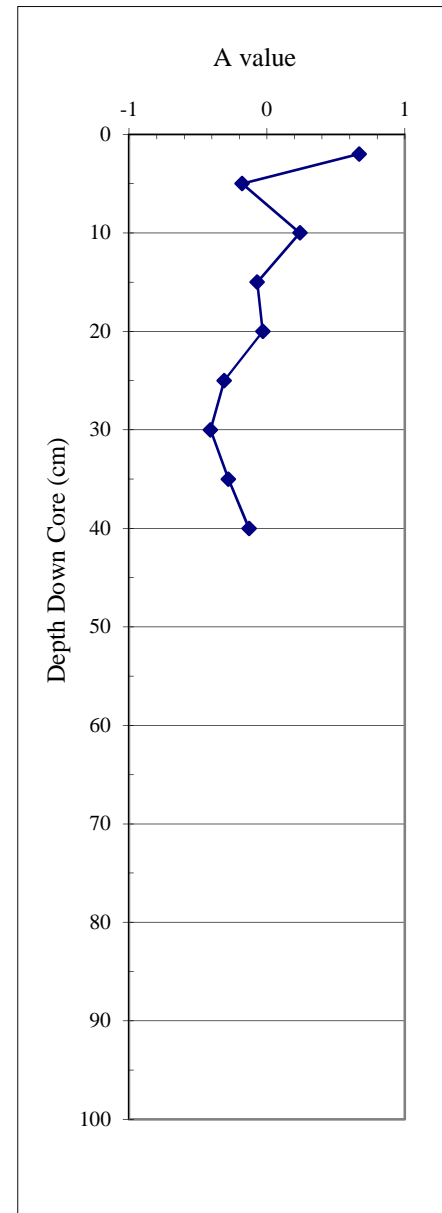
Cruise No: 2003801

Station: 32

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	0.67	3.82	36.86
5	-0.18	1.74	36.54
10	0.24	2.88	35.78
15	-0.07	1.79	37.49
20	-0.03	2.02	36.63
25	-0.31	1.4	31.37
30	-0.41	1.38	31.44
35	-0.28	0.72	41.83
40	-0.13	1.75	36.07
average	-0.06	1.94	36.00



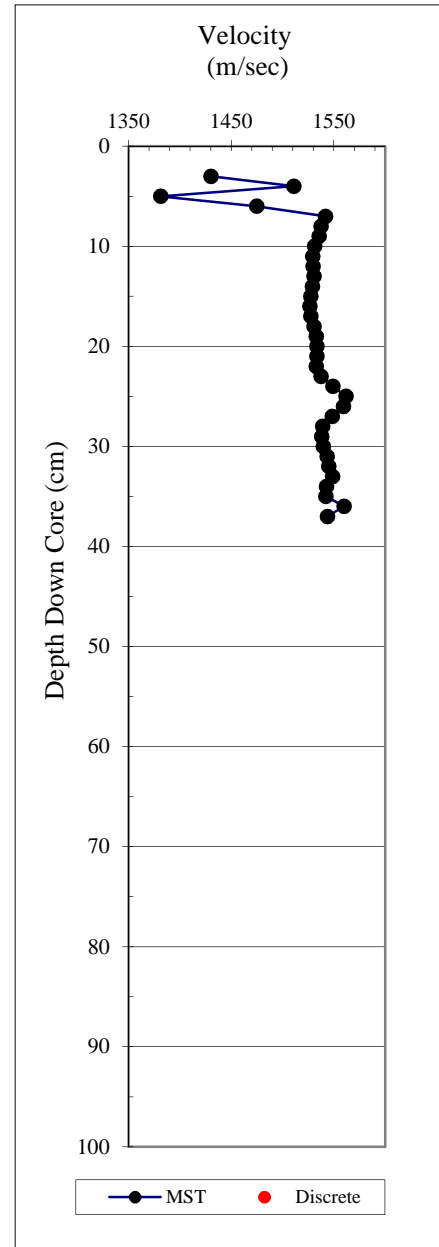
Cruise No: 2005801

Station: 32

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1430.16
4	1510.97
5	1381.27
6	1474.8
7	1541.76
8	1537.46
9	1535.62
10	1531.45
11	1529.56
12	1529.62
13	1530.66
14	1529.21
15	1527.48
16	1526.76
17	1527.66
18	1530.72
19	1532.87
20	1533.6
21	1533.53
22	1532.95
23	1537.46
24	1548.98
25	1562.01
26	1559.41
27	1548.47
28	1539.19
29	1538.1
30	1539.64
31	1543.34
32	1545.11
33	1548.66
34	1542.97
35	1542.25
36	1559.85
37	1543.78



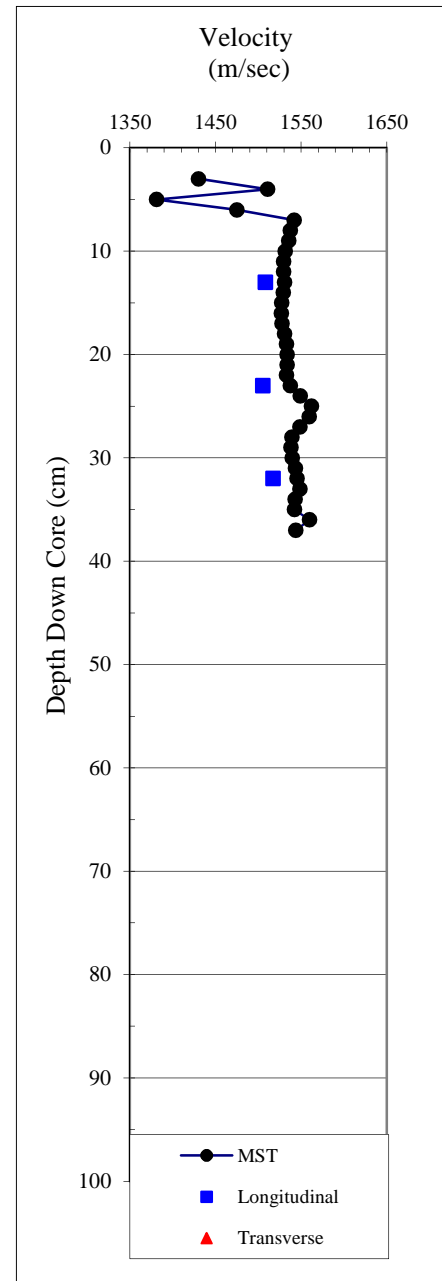
Cruise No: 2005801

Station: 32

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1430.16		
4	1510.97		
5	1381.27		
6	1474.8		
7	1541.76		
8	1537.46		
9	1535.62		
10	1531.45		
11	1529.56		
12	1529.62		
13	1530.66	1508.28	
14	1529.21		
15	1527.48		
16	1526.76		
17	1527.66		
18	1530.72		
19	1532.87		
20	1533.6		
21	1533.53		
22	1532.95		
23	1537.46	1505.29	
24	1548.98		
25	1562.01		
26	1559.41		
27	1548.47		
28	1539.19		
29	1538.1		
30	1539.64		
31	1543.34		
32	1545.11	1517.33	
33	1548.66		
34	1542.97		
35	1542.25		
36	1559.85		
37	1543.78		



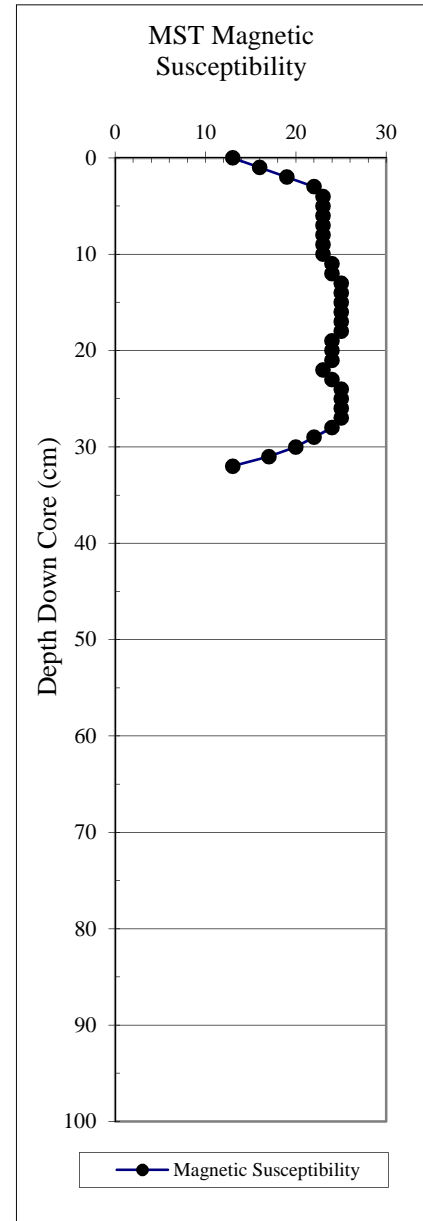
Cruise No: 2005801

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	13
1	16
2	19
3	22
4	23
5	23
6	23
7	23
8	23
9	23
10	23
11	24
12	24
13	25
14	25
15	25
16	25
17	25
18	25
19	24
20	24
21	24
22	23
23	24
24	25
25	25
26	25
27	25
28	24
29	22
30	20
31	17
32	13



Cruise No: 2005801

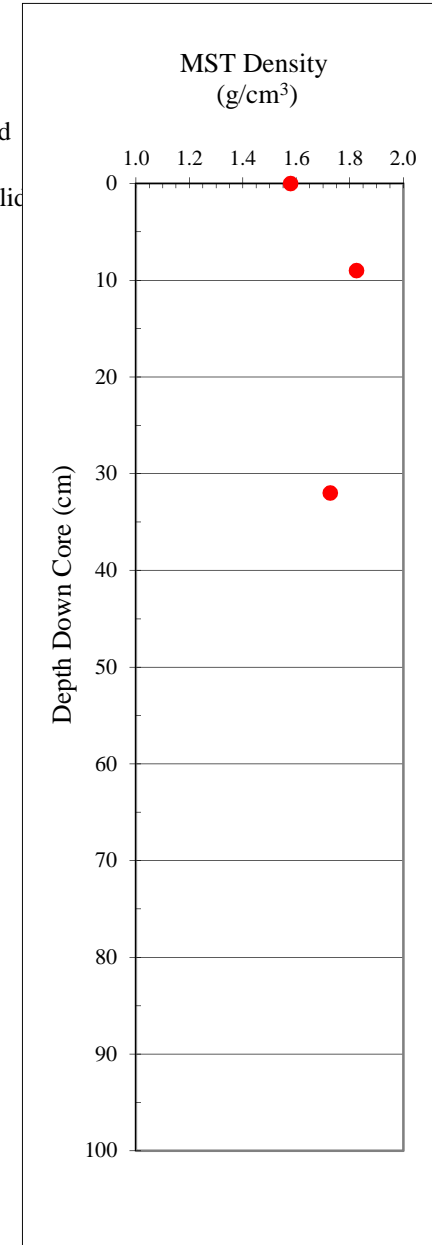
Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

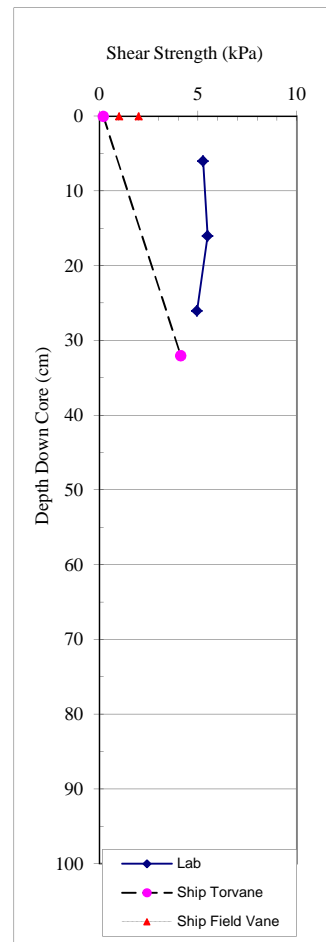
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.58	0.930	63.293	2.535	1.724	41.058	69.659	olive grey, sediment on lid
9	1.826	1.126	68.291	3.552	2.154	38.302	62.081	
** 32	1.73	1.149	56.411	2.636	1.294	33.458	50.280	sand brown, sediment on lid
averages:	1.71	1.07	62.67	2.91	1.72	37.61	60.67	



Cruise No: 2003801
 Station: 40
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> (kPa)	<u>Undrained</u> <u>Shear Shear</u> (kPa)	
6	5.247	0.926	5.67
16	5.478		
26	4.938	0.540	9.14
average	5.22		

Disturbed Uneven Surface



Cruise No: 2003801
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Torvane

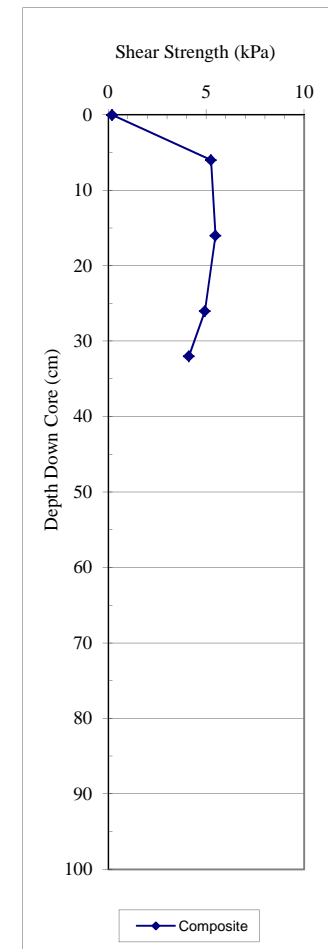
Depth Down Core (cm)	<u>Undrained</u>
	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
32.0	4.12

Cruise No: 2003801
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u>
	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u> <u>Shear Shear</u> (kPa)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
0.0	0.20	
6	5.247	0.926
16	5.478	
26	4.938	0.540
32.0	4.12	
average	4.00	



phase

1	4.5454545	4.5454545
	7.8571429	8.4615385
2	11.3333333	
3	8.3870968	
3	0	8.2258065
		8.125

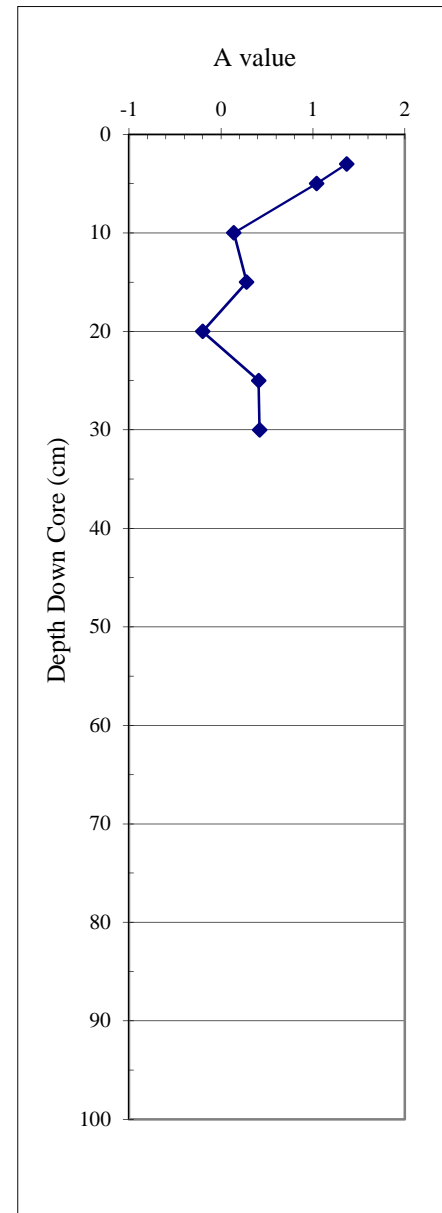
Cruise No: 2003801

Station: 40

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
3	1.37	5.58	38.24
5	1.04	4.85	37.34
10	0.14	2.3	38.81
15	0.28	2.94	38.39
20	-0.2	1.46	39.89
25	0.41	2.56	41.58
30	0.42	2.85	41.68
average	0.49	3.22	39.42



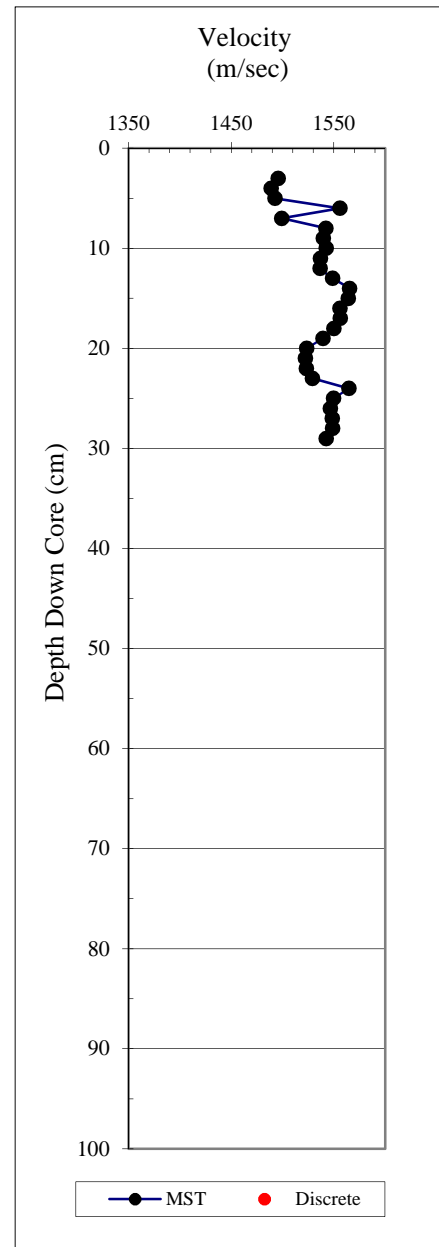
Cruise No: 2005801

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1495.84
4	1489.02
5	1492.8
6	1555.83
7	1499.26
8	1542.14
9	1539.66
10	1542.66
11	1536.87
12	1536.55
13	1548.72
14	1565.41
15	1564.01
16	1555.95
17	1556.4
18	1550.02
19	1539.5
20	1523.48
21	1522.16
22	1523.15
23	1529.03
24	1564.59
25	1549.84
26	1546.65
27	1548.56
28	1548.64
29	1542.56



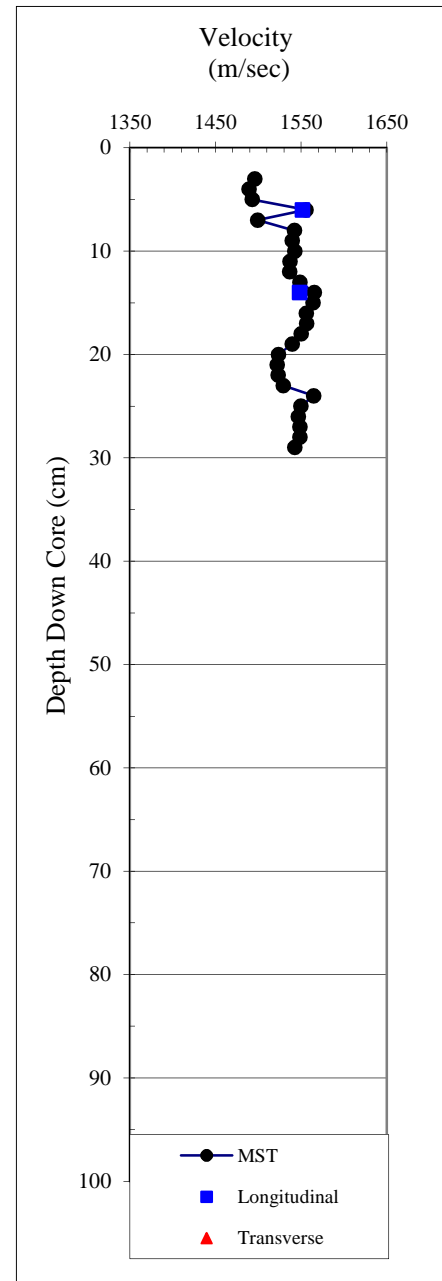
Cruise No: 2005801

Station: 40

Sample Type: Push Core

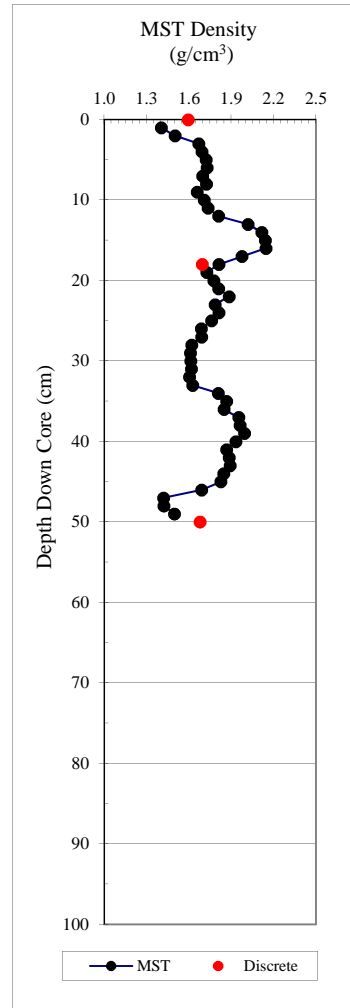
Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1495.84		
4	1489.02		
5	1492.8		
6	1555.83	1551.45	
7	1499.26		
8	1542.14		
9	1539.66		
10	1542.66		
11	1536.87		
12	1536.55		
13	1548.72		
14	1565.41	1548.28	
15	1564.01		
16	1555.95		
17	1556.4		
18	1550.02		
19	1539.5		
20	1523.48		
21	1522.16		
22	1523.15		
23	1529.03		
24	1564.59		
25	1549.84		
26	1546.65		
27	1548.56		
28	1548.64		
29	1542.56		



Cruise No: 2005801
 Station: 41
 Sample Type: Gravity Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.3547	0.016	
1	1.4028	0.038	0.04
2	1.5002	0.048	0.09
3	1.6682	0.060	0.15
4	1.6919	0.066	0.21
5	1.7206	0.068	0.28
6	1.7283	0.068	0.35
7	1.6945	0.067	0.42
8	1.723	0.066	0.48
9	1.6574	0.065	0.55
10	1.707	0.066	0.61
11	1.7331	0.071	0.68
12	1.8098	0.080	0.76
13	2.0182	0.095	0.86
14	2.1151	0.105	0.96
15	2.1407	0.109	1.07
16	2.1432	0.106	1.18
17	1.974	0.093	1.27
18	1.8111	0.079	1.35
19	1.726	0.072	1.42
20	1.7751	0.073	1.50
21	1.8088	0.078	1.57
22	1.8838	0.080	1.65
23	1.7849	0.078	1.73
24	1.8106	0.075	1.81
25	1.7599	0.072	1.88
26	1.6874	0.067	1.95
27	1.6894	0.063	2.01
28	1.6182	0.060	2.07
29	1.6105	0.058	2.13
30	1.6116	0.058	2.19
31	1.617	0.058	2.24
32	1.6021	0.058	2.30
33	1.6256	0.063	2.36
34	1.8075	0.074	2.44
35	1.8662	0.081	2.52
36	1.8469	0.084	2.60
37	1.9514	0.089	2.69
38	1.96	0.092	2.78
39	1.9924	0.093	2.88
40	1.9317	0.089	2.96
41	1.8667	0.085	3.05
42	1.8828	0.084	3.13
43	1.8902	0.084	3.22
44	1.8454	0.081	3.30
45	1.8258	0.076	3.37
46	1.6893	0.062	3.44
47	1.4193	0.045	3.48
48	1.4224	0.041	3.52
49	1.4957	0.010	3.53
50	0.0745	-0.012	3.52



Cruise No: 2003801
 Station: 41
 Sample Type: Gravity Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.59	0.954	62.529	2.545	1.669	40.171	67.142	soupy sandy, sediment on lid
** 18	1.6943	1.0813	59.8665	2.6942	1.4917	36.1822	56.6961	
** 50	1.68	1.092	57.250	2.555	1.339	34.930	53.680	sediment on lid
averages:	1.66	1.04	59.88	2.60	1.50	37.09	59.17	

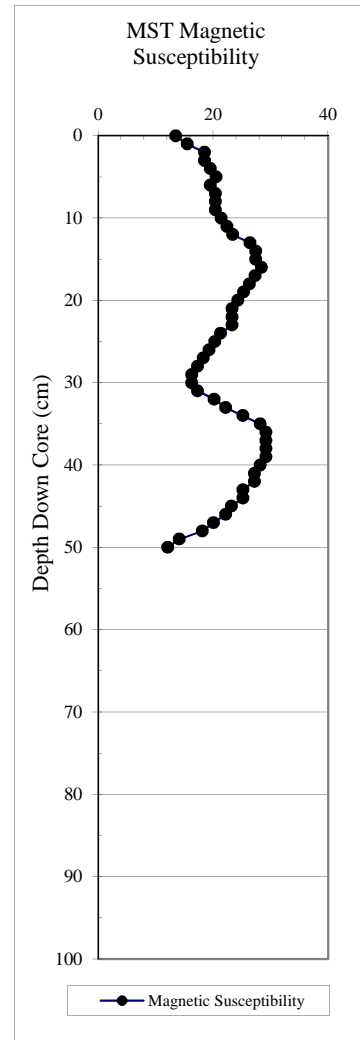
Cruise No: 2005801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	13.5
1	15.5
2	18.5
3	18.5
4	19.5
5	20.5
6	19.5
7	20.4
8	20.4
9	20.4
10	21.4
11	22.4
12	23.4
13	26.4
14	27.4
15	27.4
16	28.4
17	27.3
18	26.3
19	25.3
20	24.3
21	23.3
22	23.3
23	23.3
24	21.3
25	20.3
26	19.3
27	18.3
28	17.3
29	16.3
30	16.3
31	17.3
32	20.2
33	22.2
34	25.2
35	28.2
36	29.2
37	29.2
38	29.2
39	29.2
40	28.2
41	27.2
42	27.2
43	25.2
44	25.2
45	23.2
46	22.2
47	20.1
48	18.1
49	14.1
50	12.1



Cruise No: 2005801

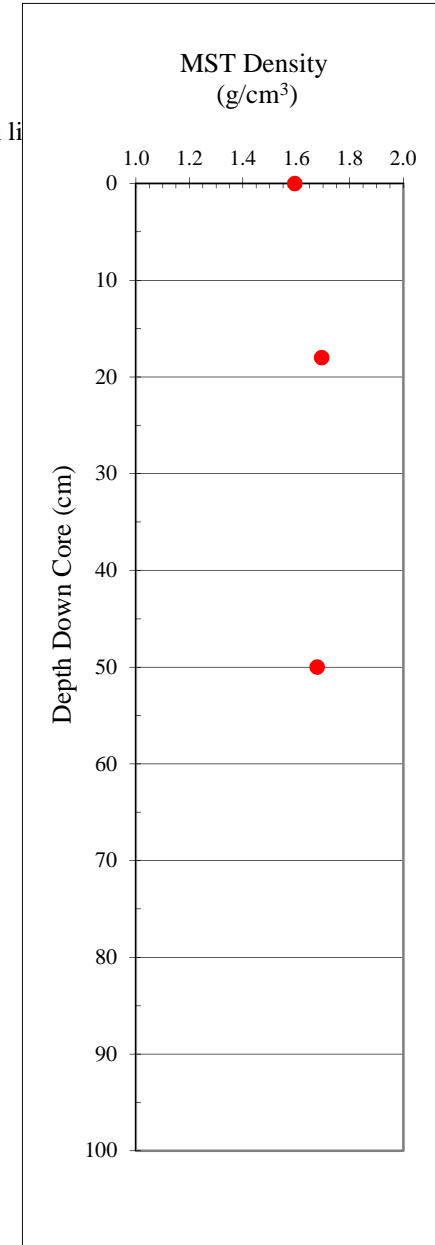
Station: 41

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.59	0.954	62.529	2.545	1.669	40.171	67.142	soupy sandy, sediment on lid
18	1.6943	1.0813	59.8665	2.6942	1.4917	36.1822	56.6961	
** 50	1.68	1.092	57.250	2.555	1.339	34.930	53.680	sediment on lid
averages:	1.66	1.04	59.88	2.60	1.50	37.09	59.17	



Cruise No: 2003801

Station: 41

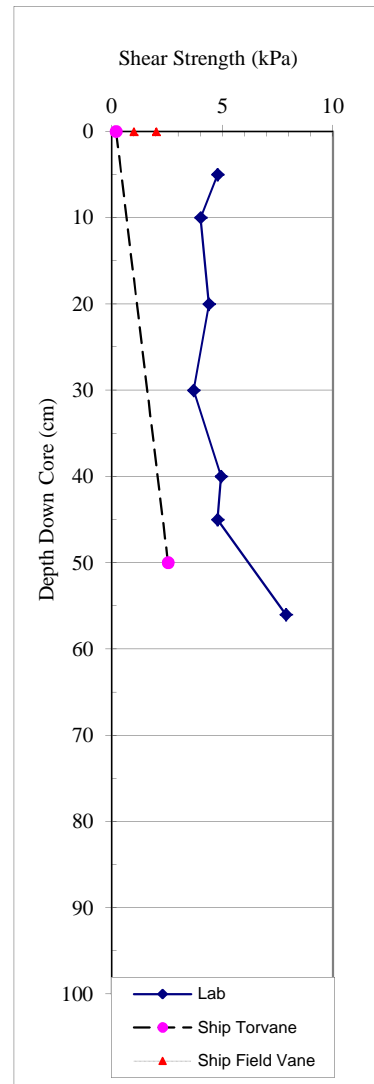
Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	4.784	0.772	6.20
10	4.012	1.852	2.17
20	4.398		
30	3.704	0.849	4.36
40	4.938		
45	4.784	3.164	1.51
56	7.870	1.235	6.38

Disturbed Uneven Surface

cutter



Cruise No: 2003801

Station: 41

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
50.0	2.55

Cruise No: 2003801

Station: 41

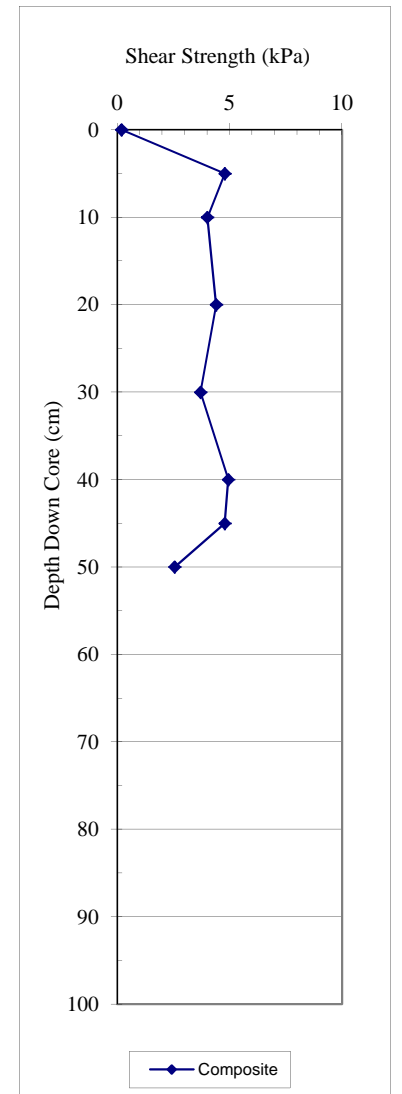
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
5	4.78	0.77
10	4.01	1.85
20	4.40	
30	3.70	0.85
40	4.94	
45	4.78	3.16
50.0	2.55	
average	3.67	



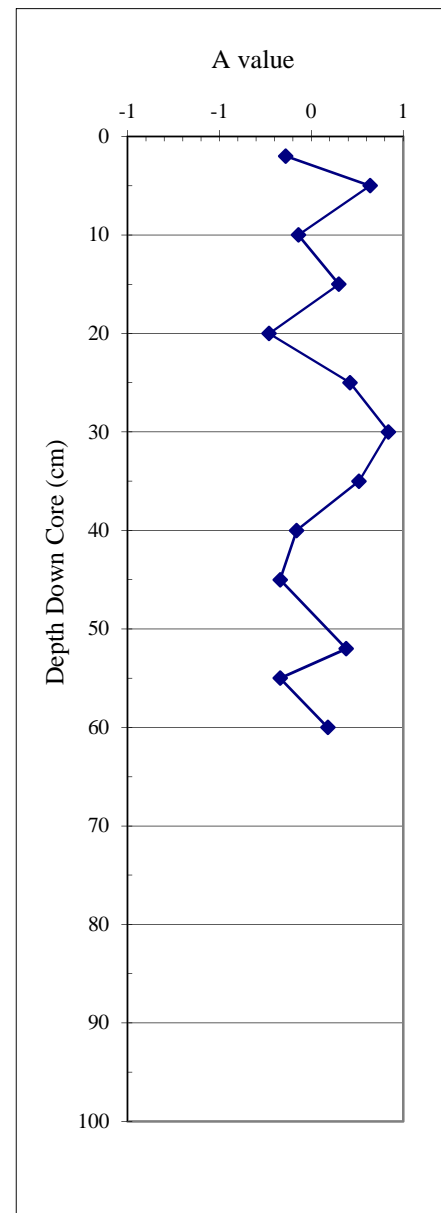
Cruise No: 2003801

Station: 41

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	-0.14	1.46	35.31
5	0.32	2.98	37.98
10	-0.07	1.96	36.83
15	0.15	2.14	36.72
20	-0.23	1.59	36.23
25	0.21	2.54	37.18
30	0.42	3.32	36.86
35	0.26	1.97	41.48
40	-0.08	1.71	36.88
45	-0.17	1.22	37.39
52	0.19	2.5	37.47
55	-0.17	1.62	34.22
60	0.09	2.26	35.77
average	0.06	2.098	36.948



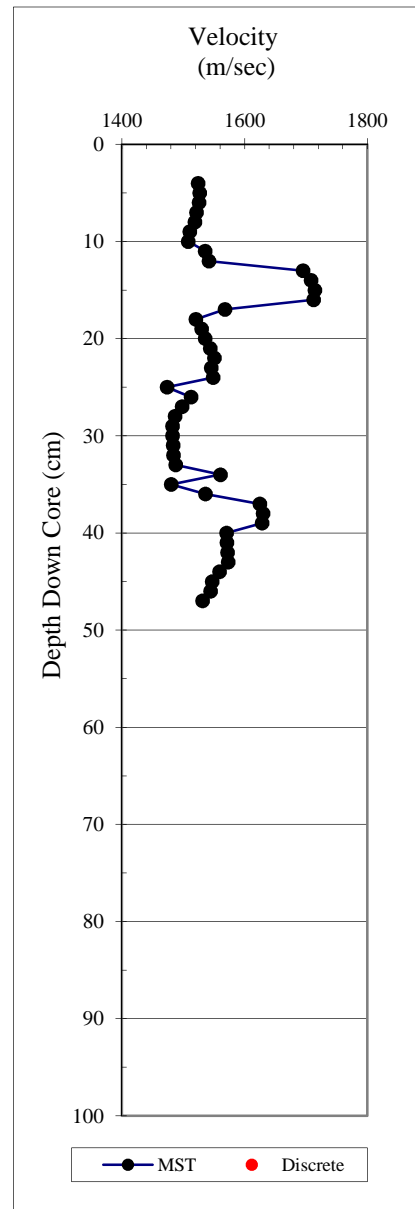
Cruise No: 2005801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	-11364.58
4	1524.12
5	1526.9
6	1525.74
7	1521.45
8	1518.82
9	1510.47
10	1508.02
11	1535.52
12	1541.54
13	1694.89
14	1707.96
15	1714.49
16	1712.08
17	1568.1
18	1520.58
19	1529.75
20	1535.5
21	1543.69
22	1550.49
23	1545.39
24	1548.4
25	1473.46
26	1512.38
27	1497.95
28	1486.55
29	1482.47
30	1482.25
31	1483.31
32	1484.01
33	1487.68
34	1560.33
35	1480.51
36	1535.94
37	1624.61
38	1630.09
39	1628.53
40	1570.24
41	1570.96
42	1571.94
43	1572.84
44	1559.07
45	1546.99
46	1544.43
47	1531.56



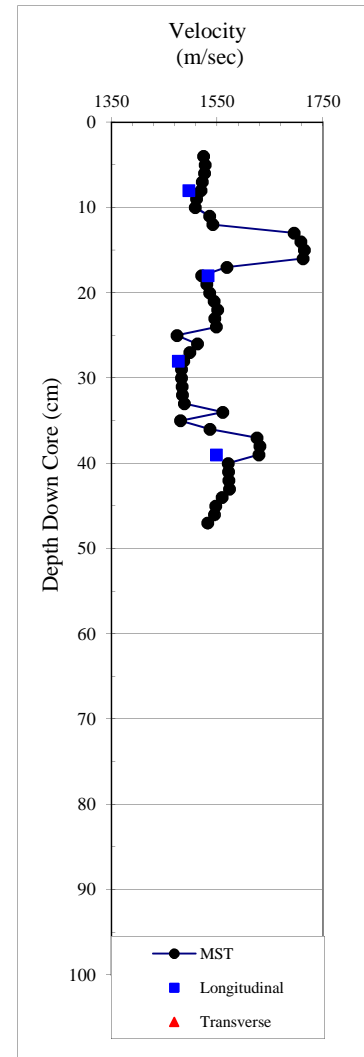
Cruise No: 2005801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	-11364.58		
4	1524.12		
5	1526.9		
6	1525.74		
7	1521.45		
8	1518.82	1496.39	
9	1510.47		
10	1508.02		
11	1535.52		
12	1541.54		
13	1694.89		
14	1707.96		
15	1714.49		
16	1712.08		
17	1568.1		
18	1520.58	1532.65	
19	1529.75		
20	1535.5		
21	1543.69		
22	1550.49		
23	1545.39		
24	1548.4		
25	1473.46		
26	1512.38		
27	1497.95		
28	1486.55	1476.02	
29	1482.47		
30	1482.25		
31	1483.31		
32	1484.01		
33	1487.68		
34	1560.33		
35	1480.51		
36	1535.94		
37	1624.61		
38	1630.09		
39	1628.53	1548.28	
40	1570.24		
41	1570.96		
42	1571.94		
43	1572.84		
44	1559.07		
45	1546.99		
46	1544.43		
47	1531.56		
48			
49			
50			
51			
52			
53			
54			
55			
56		1561.02	

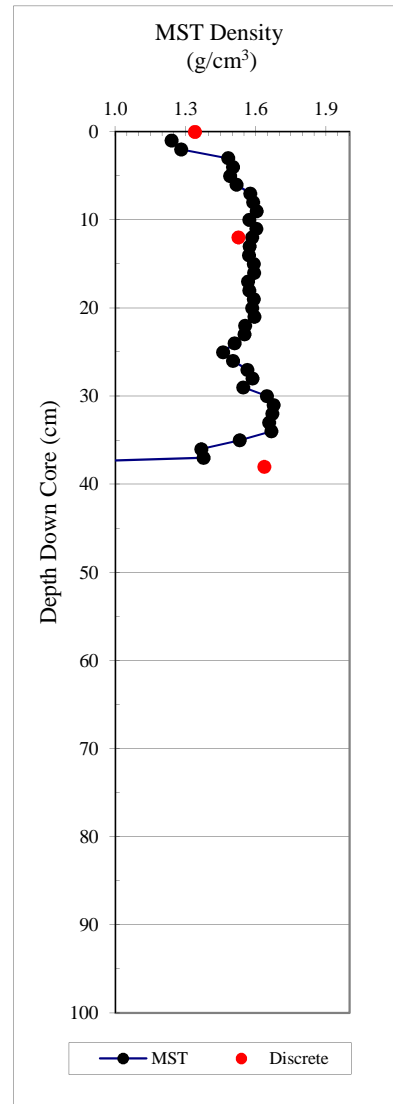


cutter
cutter
cutter
cutter
cutter
cutter

Cruise No: 2005801
 Station: 125
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2003801
 Station: 125
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.1426	0.006	
1	1.241123	0.020	0.02
2	1.281381	0.029	0.05
3	1.482271	0.041	0.09
4	1.503091	0.046	0.14
5	1.490938	0.047	0.18
6	1.518508	0.049	0.23
7	1.576099	0.053	0.28
8	1.588708	0.055	0.34
9	1.604234	0.056	0.40
10	1.572273	0.055	0.45
11	1.602623	0.056	0.51
12	1.585084	0.055	0.56
13	1.573952	0.054	0.62
14	1.571026	0.054	0.67
15	1.591704	0.055	0.73
16	1.592784	0.055	0.78
17	1.566866	0.054	0.83
18	1.573248	0.054	0.89
19	1.591228	0.055	0.94
20	1.584705	0.055	1.00
21	1.594378	0.055	1.05
22	1.554446	0.053	1.11
23	1.552209	0.051	1.16
24	1.509365	0.047	1.21
25	1.460214	0.045	1.25
26	1.503655	0.047	1.30
27	1.563787	0.052	1.35
28	1.58641	0.054	1.40
29	1.546424	0.055	1.46
30	1.648327	0.059	1.52
31	1.676721	0.063	1.58
32	1.671504	0.063	1.64
33	1.657576	0.063	1.71
34	1.667137	0.060	1.77
35	1.531188	0.049	1.82
36	1.367728	0.038	1.85
37	1.376757	0.005	1.86
38	0.169175	1.739	3.60



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.34	0.54	77.82	2.45	3.51	59.42	146.44
12	1.53	0.82	68.60	2.62	2.19	46.03	85.30
** 38	1.64	1.00	61.93	2.63	1.63	38.75	63.26
averages:	1.50	0.79	69.45	2.57	2.44	48.07	98.33

sediment on lid

Cruise No: 2005801

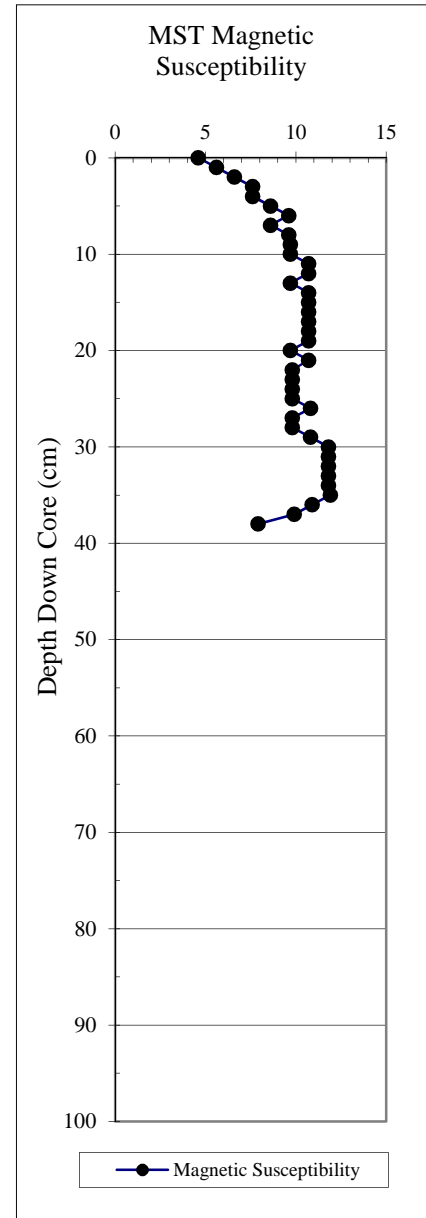
Station: 125

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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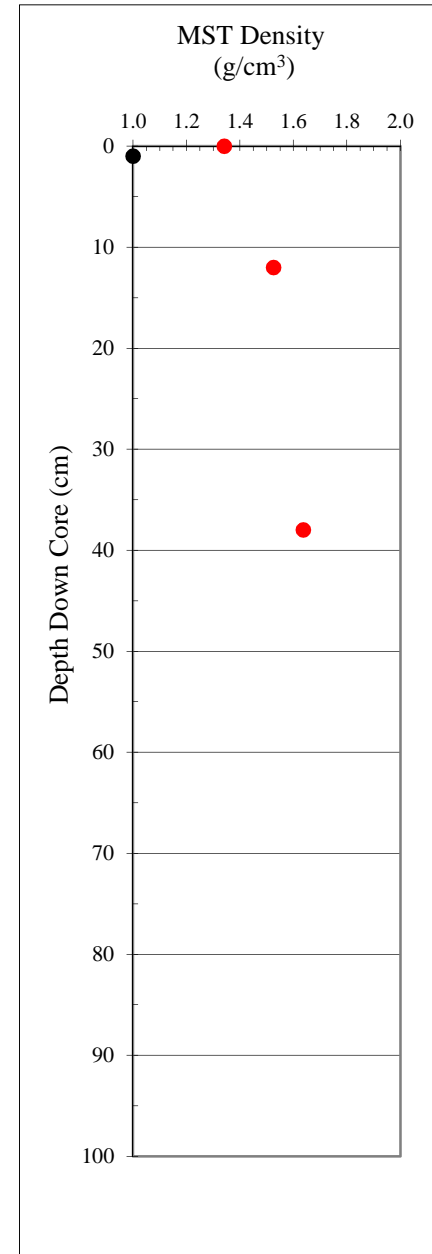
0	4.6
1	5.6
2	6.6
3	7.6
4	7.6
5	8.6
6	9.6
7	8.6
8	9.6
9	9.7
10	9.7
11	10.7
12	10.7
13	9.7
14	10.7
15	10.7
16	10.7
17	10.7
18	10.7
19	10.7
20	9.7
21	10.7
22	9.8
23	9.8
24	9.8
25	9.8
26	10.8
27	9.8
28	9.8
29	10.8
30	11.8
31	11.8
32	11.8
33	11.8
34	11.8
35	11.9
36	10.9
37	9.9
38	7.9



Cruise No: 2005801
 Station: 125
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.34	0.54	77.82	2.45	3.51	59.42	146.44
12	1.53	0.82	68.60	2.62	2.19	46.03	85.30
** 38	1.64	1.00	61.93	2.63	1.63	38.75	63.26
averages:	1.50	0.79	69.45	2.57	2.44	48.07	98.33

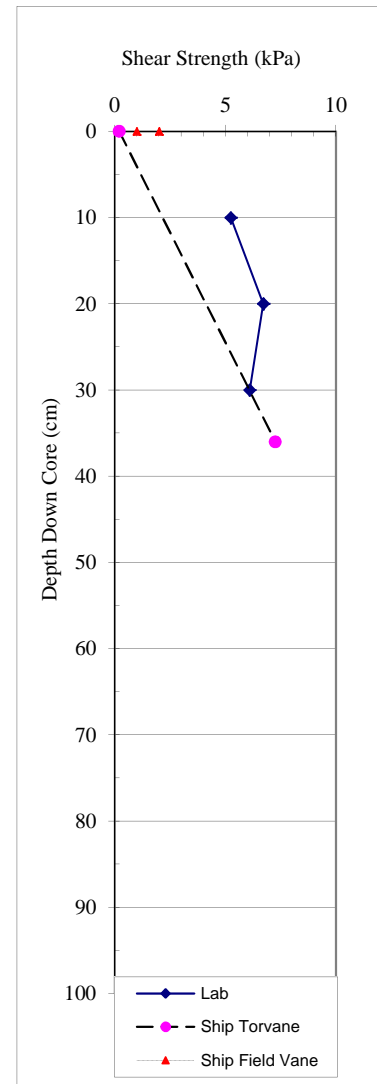
sediment on lid



Cruise No: 2003801
 Station: 125
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	5.24694	1.31174	4.00
20	6.713		
30	6.09571	2.16051	0.85

average 6.02



Cruise No: 2003801
 Station: 125
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.2
36.0	7.3

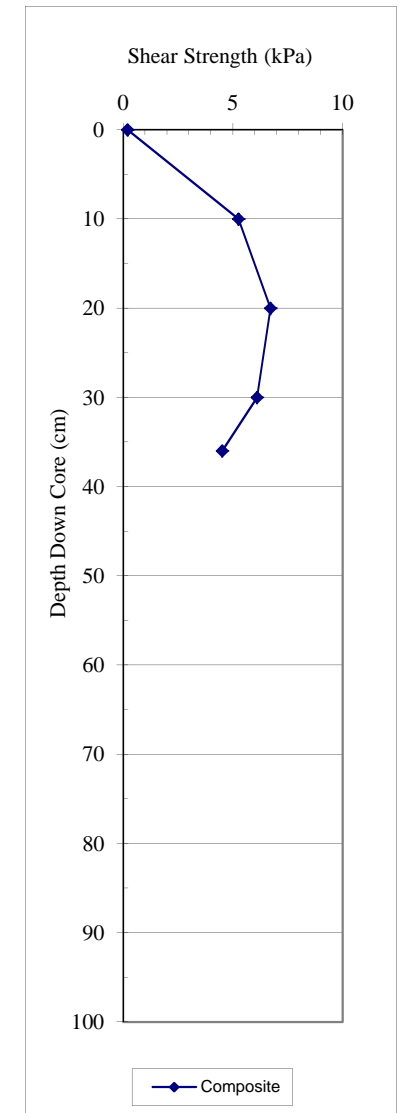
Cruise No: 2003801
 Station: 125
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.2	
10	5.2	1.31174
20.0	6.7	
30	6.09571	2.16051
36.0	4.5	

average 4.55



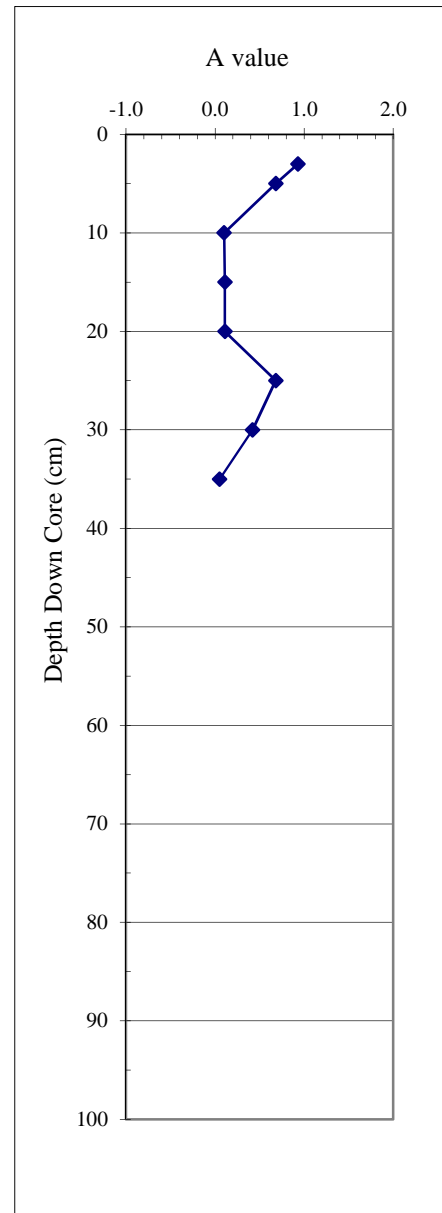
Cruise No: 2003801

Station: 125

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
3	0.93	3.84	42.37
5	0.68	3.5	42.01
10	0.1	1.73	43.54
15	0.11	1.7	44.41
20	0.11	2.04	44.43
25	0.68	3.51	45.09
30	0.42	2.88	43.4
35	0.05	1.86	40.43
average	0.39	2.63	43.21



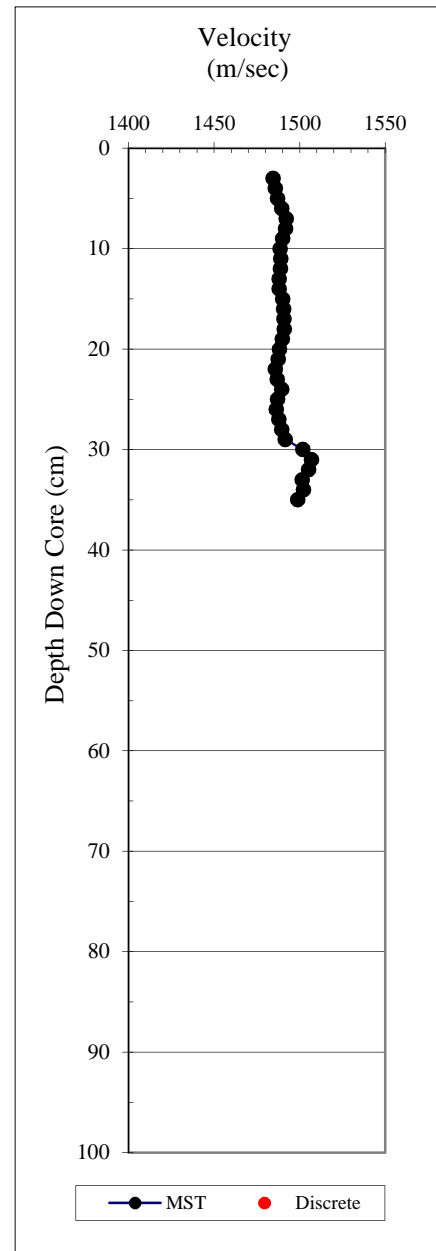
Cruise No: 2005801

Station: 125

Sample Type: Push Core

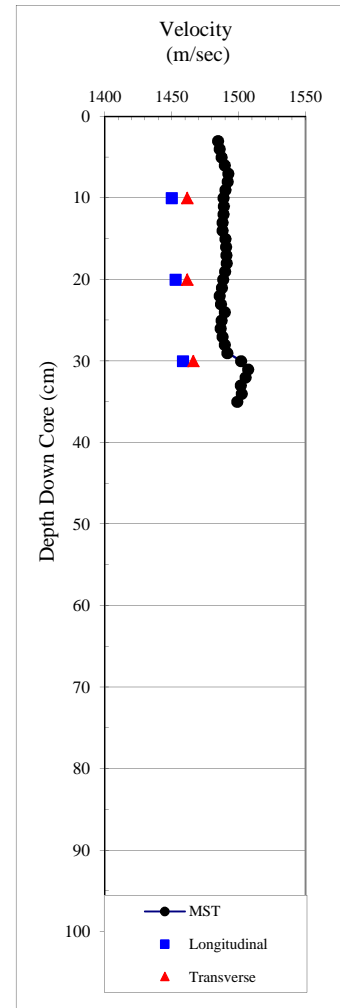
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1484.54
4	1485.83
5	1487.13
6	1489.48
7	1492.18
8	1491.84
9	1490.04
10	1488.6
11	1488.97
12	1488.74
13	1487.95
14	1488.03
15	1490.14
16	1490.63
17	1490.88
18	1491.02
19	1489.87
20	1488.3
21	1487.4
22	1485.86
23	1486.84
24	1489.56
25	1487.09
26	1486.41
27	1487.93
28	1489.54
29	1491.62
30	1501.83
31	1506.93
32	1505.22
33	1501.58
34	1502.27
35	1498.81



Cruise No: 2005801
 Station: 125
 Sample Type: Push Core
 Data Type: Laboratory Discrete

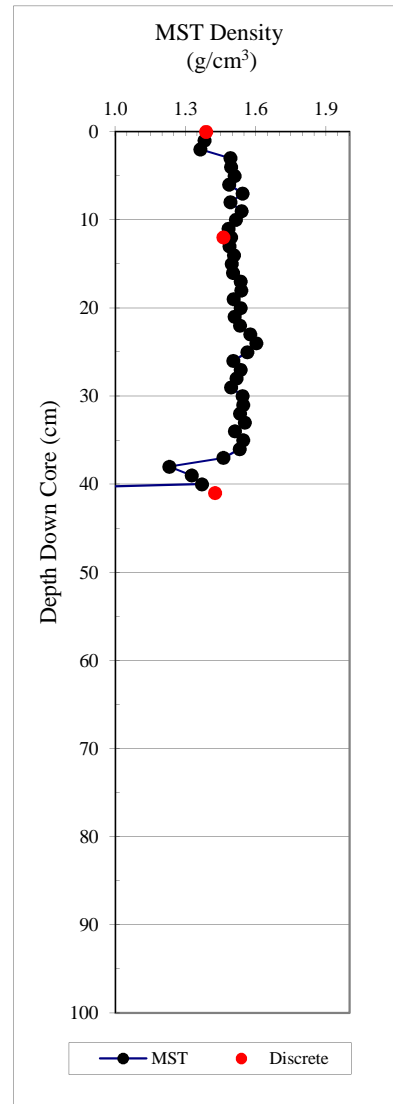
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1484.54		
4	1485.83		
5	1487.13		
6	1489.48		
7	1492.18		
8	1491.84		
9	1490.04		
10	1488.6	1449.93	1461.71
11	1488.97		
12	1488.74		
13	1487.95		
14	1488.03		
15	1490.14		
16	1490.63		
17	1490.88		
18	1491.02		
19	1489.87		
20	1488.3	1452.71	1461.71
21	1487.4		
22	1485.86		
23	1486.84		
24	1489.56		
25	1487.09		
26	1486.41		
27	1487.93		
28	1489.54		
29	1491.62		
30	1501.83	1458.28	1466.2
31	1506.93		
32	1505.22		
33	1501.58		
34	1502.27		
35	1498.81		



Cruise No: 2005801
 Station: 136
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2003801
 Station: 136
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	1.1087	0.004	
1	1.381023	0.028	0.03
2	1.364381	0.037	0.06
3	1.492671	0.043	0.11
4	1.495391	0.047	0.15
5	1.509338	0.047	0.20
6	1.487208	0.047	0.25
7	1.544099	0.048	0.30
8	1.492508	0.048	0.35
9	1.539634	0.049	0.39
10	1.515373	0.048	0.44
11	1.484223	0.046	0.49
12	1.495384	0.046	0.53
13	1.487552	0.046	0.58
14	1.506626	0.047	0.63
15	1.497504	0.047	0.67
16	1.503684	0.048	0.72
17	1.535466	0.049	0.77
18	1.538348	0.050	0.82
19	1.505128	0.049	0.87
20	1.536305	0.049	0.92
21	1.509878	0.049	0.97
22	1.533046	0.050	1.02
23	1.576309	0.054	1.07
24	1.602565	0.055	1.13
25	1.564114	0.052	1.18
26	1.505055	0.049	1.23
27	1.535487	0.049	1.28
28	1.51791	0.048	1.33
29	1.494624	0.048	1.37
30	1.543927	0.050	1.42
31	1.546821	0.051	1.47
32	1.532604	0.051	1.52
33	1.552976	0.050	1.58
34	1.511737	0.050	1.62
35	1.546388	0.050	1.67
36	1.531128	0.048	1.72
37	1.462557	0.039	1.76
38	1.230775	0.028	1.79
39	1.326183	0.028	1.82
40	1.37038	-0.002	1.82
41	-0.068033	2.109	3.93

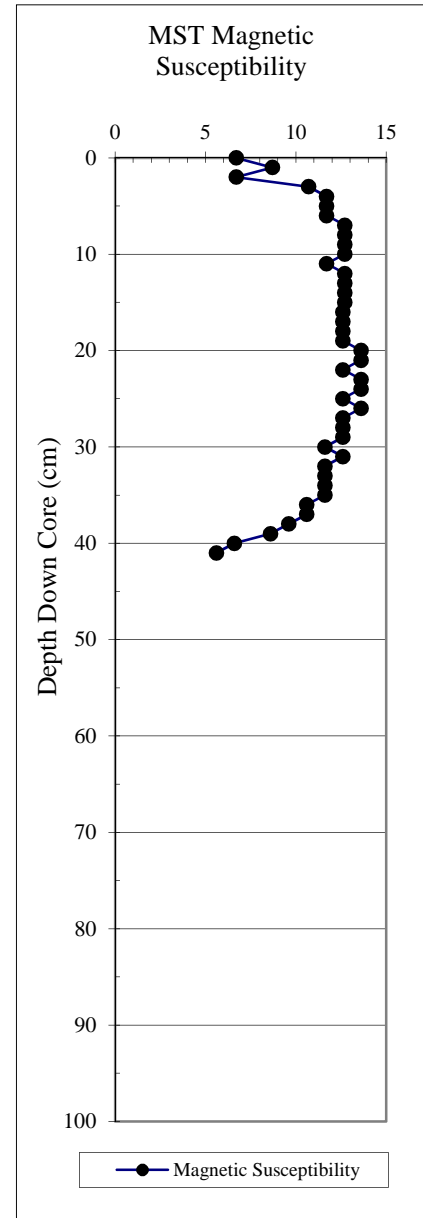


Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.39	0.64	72.83	2.36	2.68	53.73	116.12
12	1.46	0.73	71.79	2.58	2.54	50.27	101.10
** 41	1.43	0.69	72.10	2.47	2.58	51.74	107.23
averages:	1.43	0.69	72.24	2.47	2.60	51.92	108.15

sediment on lid
 sediment on lid

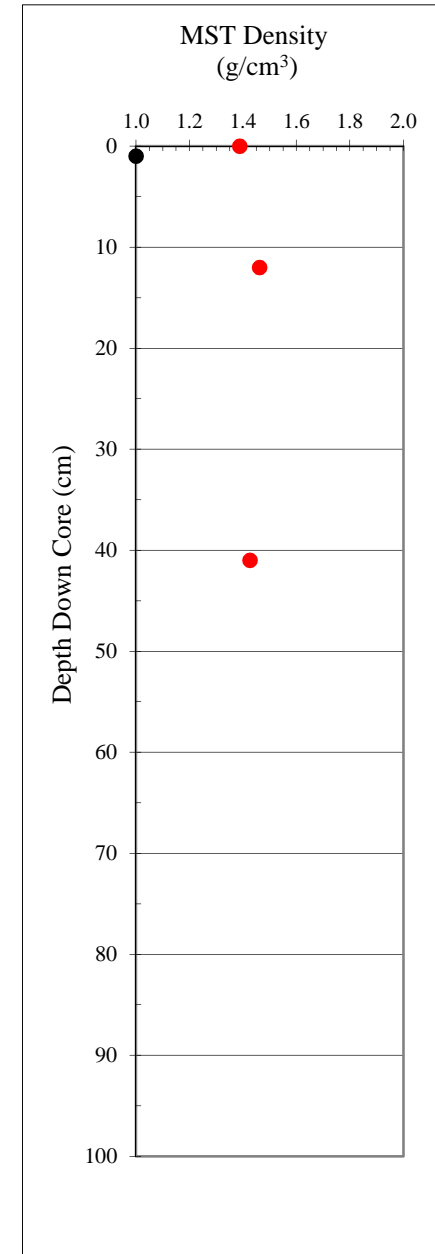
Cruise No: 2005801
Station: 136
Sample Type: Push Core
Data Type: MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	6.7
1	8.7
2	6.7
3	10.7
4	11.7
5	11.7
6	11.7
7	12.7
8	12.7
9	12.7
10	12.7
11	11.7
12	12.7
13	12.7
14	12.7
15	12.7
16	12.6
17	12.6
18	12.6
19	12.6
20	13.6
21	13.6
22	12.6
23	13.6
24	13.6
25	12.6
26	13.6
27	12.6
28	12.6
29	12.6
30	11.6
31	12.6
32	11.6
33	11.6
34	11.6
35	11.6
36	10.6
37	10.6
38	9.6
39	8.6
40	6.6
41	5.6



Cruise No: 2005801
 Station: 136
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

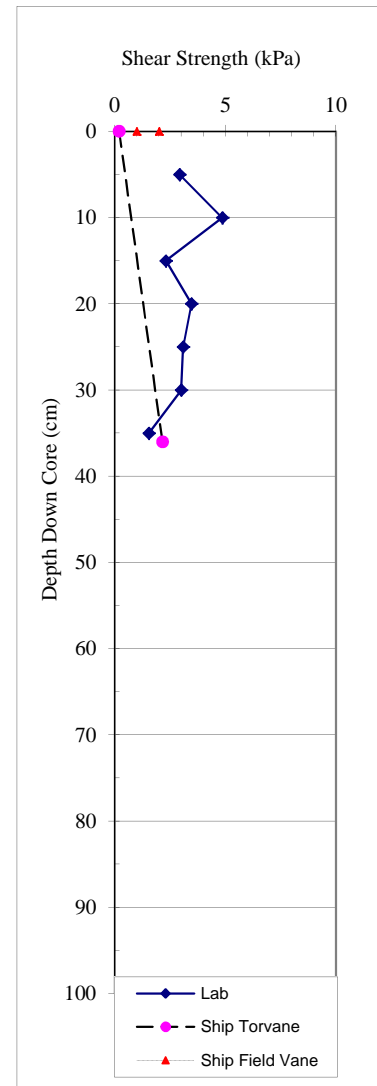
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.39	0.64	72.83	2.36	2.68	53.73	116.12	sediment on lid
12	1.46	0.73	71.79	2.58	2.54	50.27	101.10	
** 41	1.43	0.69	72.10	2.47	2.58	51.74	107.23	sediment on lid
averages:	1.43	0.69	72.24	2.47	2.60	51.92	108.15	



Cruise No: 2003801
 Station: 136
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	2.93211	1.08025	2.71
10	4.86114		
15	2.31483	0.3858	6.00
20	3.47		
25	3.09		
30	3.01	0.61729	4.87
35	1.54		

average 3.03



Cruise No: 2003801
 Station: 136
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.2
36.0	2.2

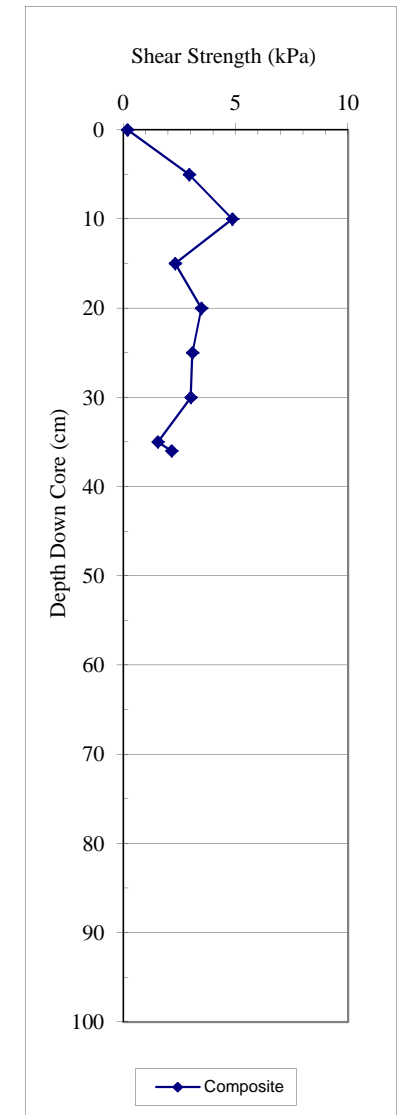
Cruise No: 2003801
 Station: 136
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

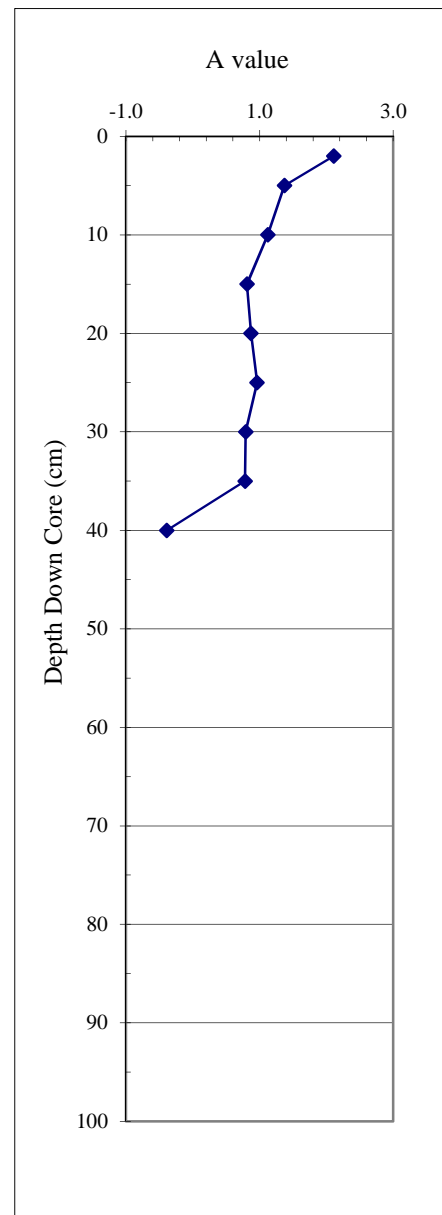
Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.2	
5	2.9	1.08025
10.0	4.9	
15	2.31483	0.3858
20.0	3.5	
25	3.08644	
30.0	3.00928	0.61729
35	1.54322	
36	2.15754	

average 2.62



Cruise No: 2003801
Station: 136
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	2.11	7.21	42.66
5	1.37	5.92	42.01
10	1.12	5.24	41.58
15	0.81	4.02	44.27
20	0.87	4.42	42.91
25	0.96	4.63	42.68
30	0.79	3.62	43.57
35	0.78	3.72	42.88
40	-0.39	0.61	38.65
average	0.94	4.38	42.36



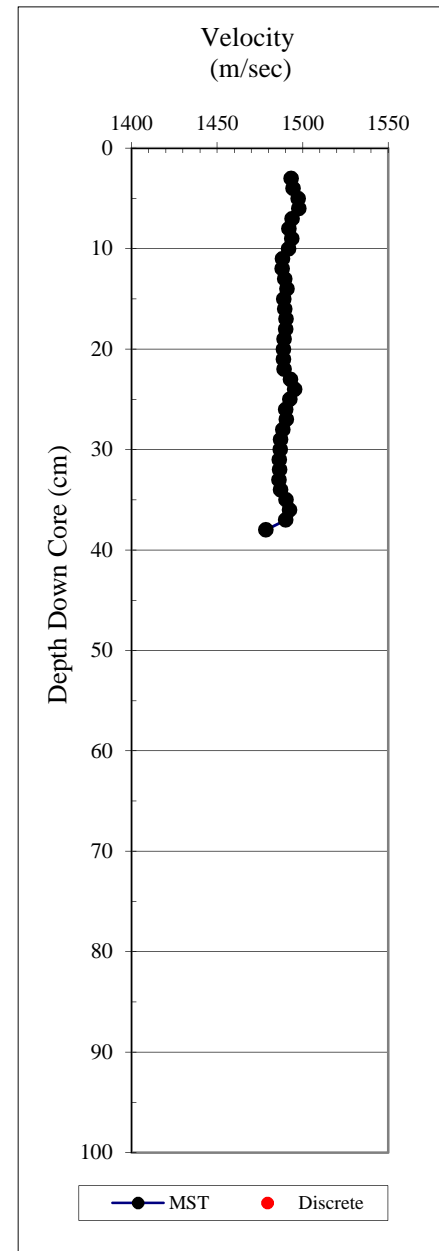
Cruise No: 2005801

Station: L36

Sample Type: Push Core

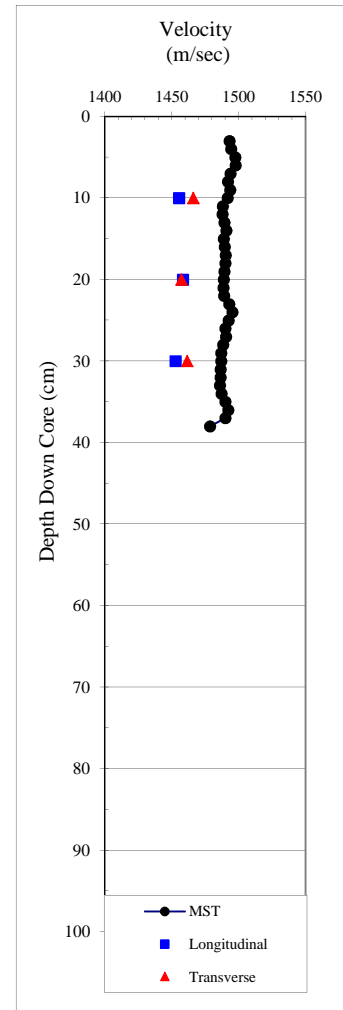
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1493.2
4	1494.41
5	1497.39
6	1497.81
7	1493.86
8	1491.97
9	1493.57
10	1491.68
11	1488.14
12	1487.94
13	1489.47
14	1490.82
15	1488.88
16	1489.52
17	1490.3
18	1490
19	1489.24
20	1488.85
21	1488.68
22	1489.07
23	1492.96
24	1495.24
25	1492.5
26	1490.13
27	1490.47
28	1488.32
29	1487.07
30	1486.85
31	1486.43
32	1486.57
33	1486.08
34	1487.18
35	1490.19
36	1492.28
37	1490.15
38	1478.57



Cruise No: 2005801
 Station: 136
 Sample Type: Push Core
 Data Type: Laboratory Discrete

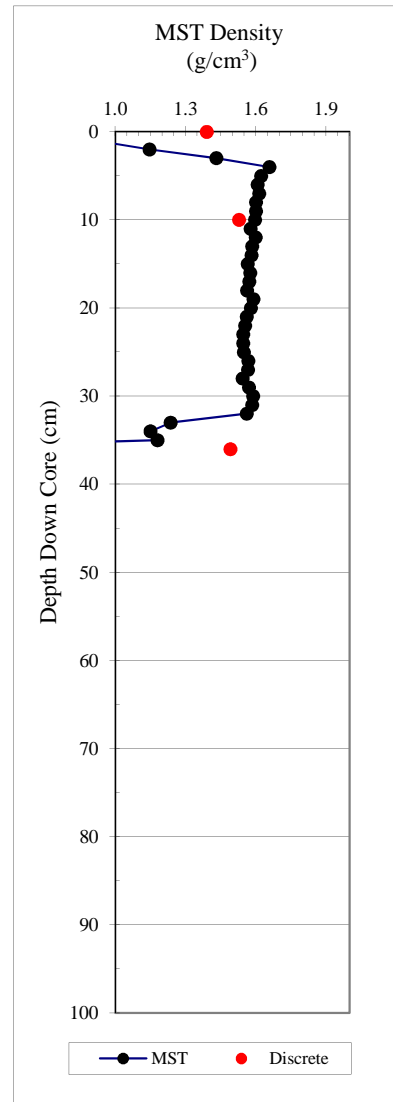
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1493.2		
4	1494.41		
5	1497.39		
6	1497.81		
7	1493.86		
8	1491.97		
9	1493.57		
10	1491.68	1455.49	1466.2
11	1488.14		
12	1487.94		
13	1489.47		
14	1490.82		
15	1488.88		
16	1489.52		
17	1490.3		
18	1490		
19	1489.24		
20	1488.85	1458.28	1457.24
21	1488.68		
22	1489.07		
23	1492.96		
24	1495.24		
25	1492.5		
26	1490.13		
27	1490.47		
28	1488.32		
29	1487.07		
30	1486.85	1452.71	1461.71
31	1486.43		
32	1486.57		
33	1486.08		
34	1487.18		
35	1490.19		
36	1492.28		
37	1490.15		
38	1478.57		



Cruise No: 2005801
 Station: 139
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2003801
 Station: 139
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	-0.0354	-0.052	
1	0.912323	-0.028	-0.03
2	1.146681	0.013	-0.02
3	1.432471	0.039	0.02
4	1.658691	0.056	0.08
5	1.622938	0.059	0.14
6	1.608308	0.058	0.20
7	1.615499	0.058	0.25
8	1.601308	0.057	0.31
9	1.601534	0.057	0.37
10	1.597473	0.056	0.42
11	1.577823	0.055	0.48
12	1.599384	0.056	0.53
13	1.585452	0.055	0.59
14	1.582826	0.054	0.64
15	1.566004	0.054	0.70
16	1.576084	0.054	0.75
17	1.573066	0.054	0.81
18	1.562848	0.054	0.86
19	1.590728	0.055	0.91
20	1.580005	0.054	0.97
21	1.561878	0.053	1.02
22	1.554246	0.052	1.07
23	1.547109	0.051	1.12
24	1.546665	0.051	1.18
25	1.548814	0.052	1.23
26	1.568555	0.053	1.28
27	1.567187	0.053	1.33
28	1.54341	0.052	1.39
29	1.571424	0.053	1.44
30	1.589427	0.055	1.49
31	1.584421	0.055	1.55
32	1.561804	0.045	1.59
33	1.236076	0.027	1.62
34	1.150037	0.015	1.64
35	1.180188	-0.016	1.62
36	-0.059372	1.838	3.46

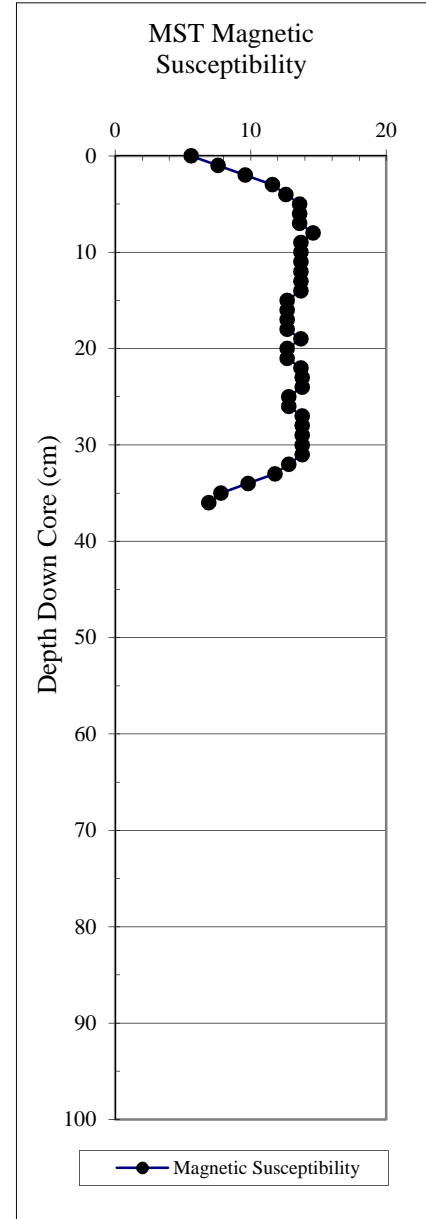


Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.39	0.71	66.49	2.12	1.98	48.95	95.89
** 10	1.53	0.84	67.59	2.58	2.09	45.26	82.69
** 36	1.49	0.80	67.52	2.47	2.08	46.32	86.29
averages:	1.47	0.78	67.20	2.39	2.05	46.85	88.29

sediment on lid
 sediment on lid

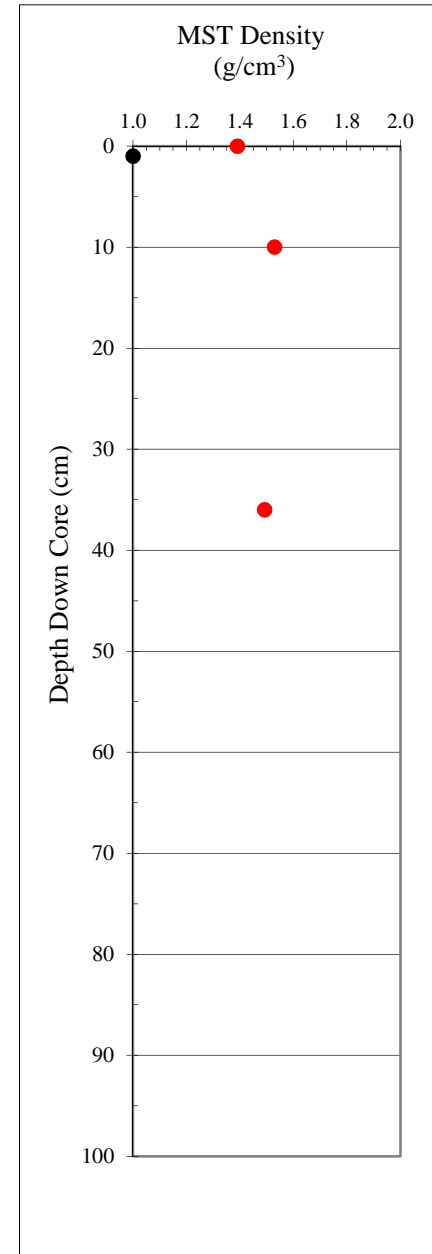
Cruise No: 2005801
Station: 139
Sample Type: Push Core
Data Type: MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	5.6
1	7.6
2	9.6
3	11.6
4	12.6
5	13.6
6	13.6
7	13.6
8	14.6
9	13.7
10	13.7
11	13.7
12	13.7
13	13.7
14	13.7
15	12.7
16	12.7
17	12.7
18	12.7
19	13.7
20	12.7
21	12.7
22	13.7
23	13.8
24	13.8
25	12.8
26	12.8
27	13.8
28	13.8
29	13.8
30	13.8
31	13.8
32	12.8
33	11.8
34	9.8
35	7.8
36	6.9



Cruise No: 2005801
 Station: 139
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

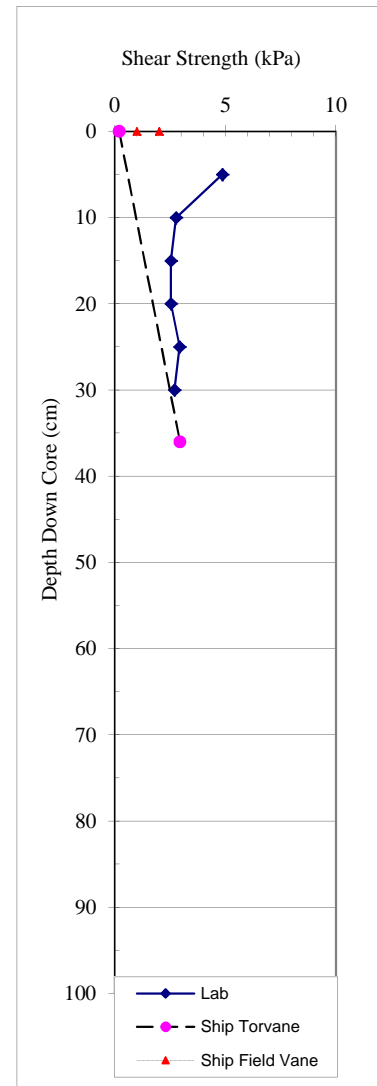
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)	
** 0	1.39	0.71	66.49	2.12	1.98	48.95	95.89	sediment on lid
10	1.53	0.84	67.59	2.58	2.09	45.26	82.69	
** 36	1.49	0.80	67.52	2.47	2.08	46.32	86.29	sediment on lid
averages:	1.47	0.78	67.20	2.39	2.05	46.85	88.29	



Cruise No: 2003801
 Station: 139
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	4.86114	1.3889	3.50
10	2.77779		
15	2.54631		
20	2.55	0.46297	5.50
25	2.93		
30	2.70	0.84877	3.18

average 3.06



Cruise No: 2003801
 Station: 139
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.2
36.0	2.9421

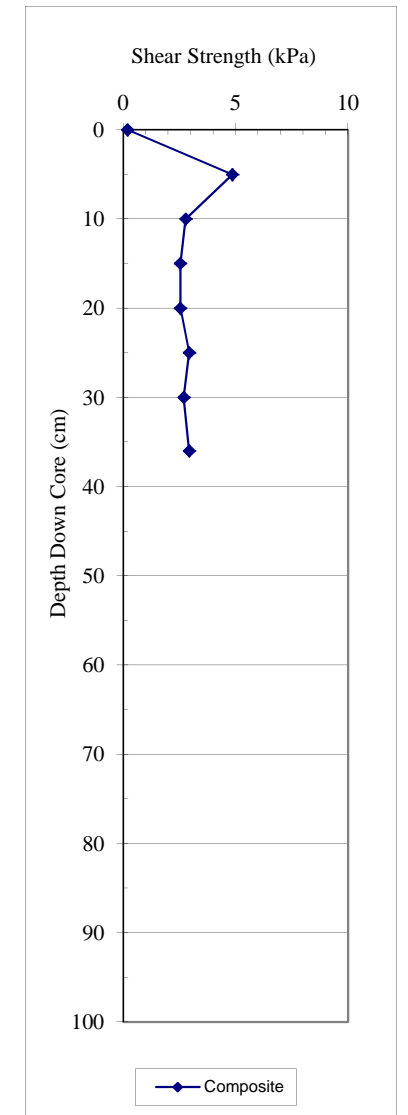
Cruise No: 2003801
 Station: 139
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.2	
5	4.9	1.3889
10.0	2.8	
15	2.54631	
20.0	2.5	0.46297
25	2.93211	
30.0	2.70063	0.84877
36.0	2.9421	

average 2.69



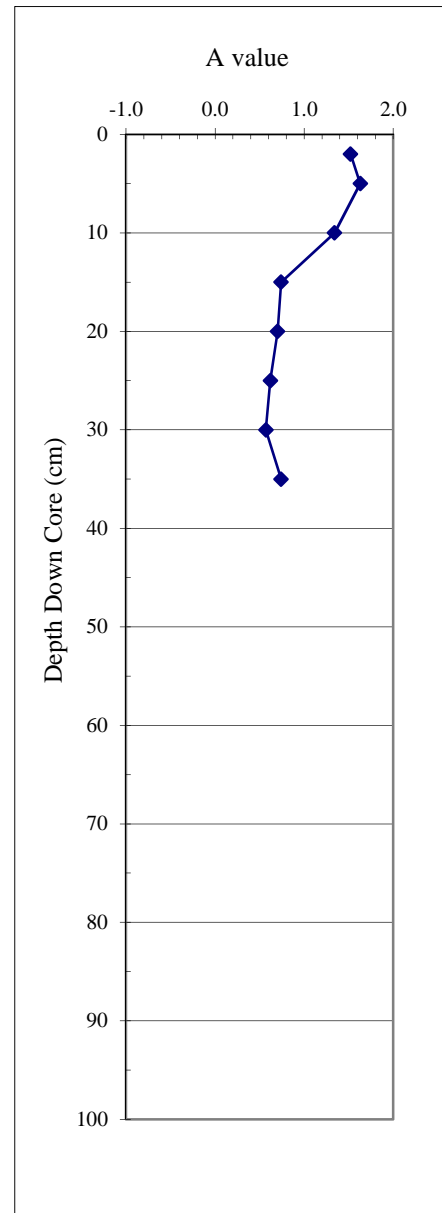
Cruise No: 2003801

Station: 139

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	1.52	4.94	43.45
5	1.63	5.46	41.76
10	1.34	4.82	42.87
15	0.74	3.25	45.22
20	0.7	2.89	44.66
25	0.62	3.24	44.03
30	0.57	3.06	43.23
35	0.74	3.6	42.84
average	0.98	3.91	43.51



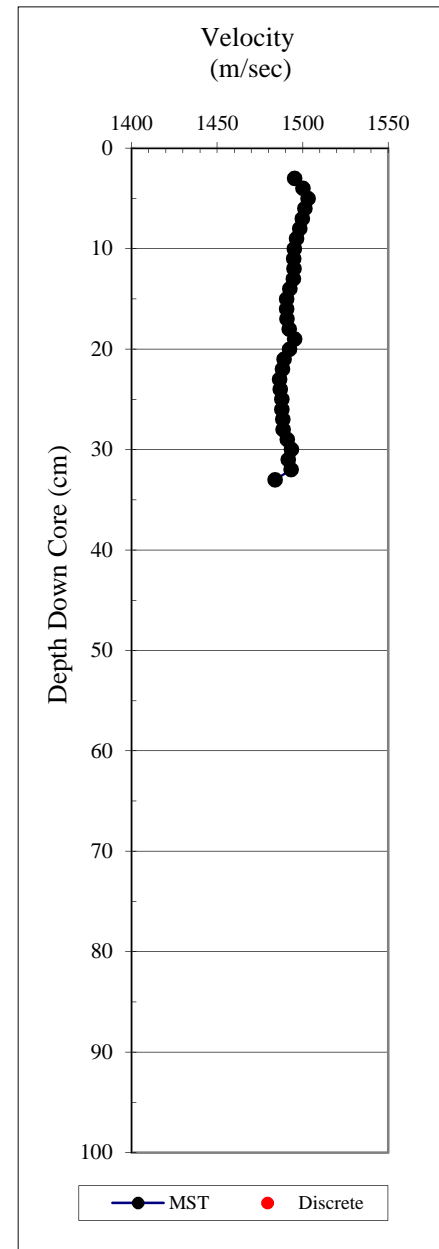
Cruise No: 2005801

Station: L39

Sample Type: Push Core

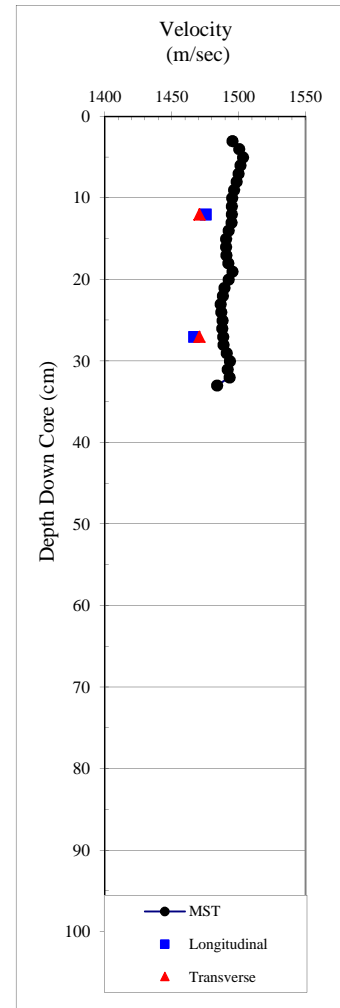
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1495.25
4	1500.24
5	1503.16
6	1501.31
7	1499.89
8	1498.38
9	1496.44
10	1495.12
11	1494.79
12	1494.93
13	1494.66
14	1492.58
15	1490.58
16	1490.64
17	1490.82
18	1492.12
19	1495.34
20	1492.38
21	1489.24
22	1488.12
23	1486.56
24	1486.94
25	1487.82
26	1487.79
27	1488.37
28	1488.53
29	1491.04
30	1493.4
31	1491.63
32	1493.28
33	1483.87



Cruise No: 2005801
 Station: 139
 Sample Type: Push Core
 Data Type: Laboratory Discrete

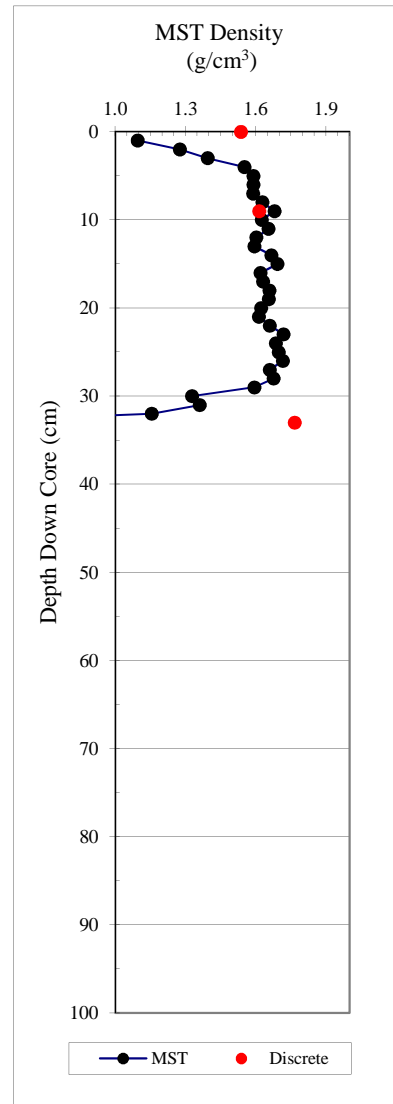
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1495.25		
4	1500.24		
5	1503.16		
6	1501.31		
7	1499.89		
8	1498.38		
9	1496.44		
10	1495.12		
11	1494.79		
12	1494.93	1475.27	1470.72
13	1494.66		
14	1492.58		
15	1490.58		
16	1490.64		
17	1490.82		
18	1492.12		
19	1495.34		
20	1492.38		
21	1489.24		
22	1488.12		
23	1486.56		
24	1486.94		
25	1487.82		
26	1487.79		
27	1488.37	1466.73	1470.72
28	1488.53		
29	1491.04		
30	1493.4		
31	1491.63		
32	1493.28		
33	1483.87		



Cruise No: 2005801
 Station: 141
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2003801
 Station: 141
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	0.2899	-0.036	
1	1.095423	-0.008	-0.01
2	1.276281	0.023	0.01
3	1.395371	0.037	0.05
4	1.551991	0.049	0.10
5	1.590538	0.055	0.16
6	1.589908	0.056	0.21
7	1.588799	0.056	0.27
8	1.628408	0.060	0.33
9	1.680234	0.062	0.39
10	1.625573	0.061	0.45
11	1.655023	0.060	0.51
12	1.602684	0.058	0.57
13	1.594052	0.058	0.63
14	1.667026	0.062	0.69
15	1.692904	0.063	0.75
16	1.620284	0.061	0.81
17	1.630766	0.060	0.87
18	1.658848	0.062	0.93
19	1.655428	0.061	0.99
20	1.622705	0.059	1.05
21	1.614178	0.059	1.11
22	1.660546	0.063	1.18
23	1.719209	0.066	1.24
24	1.686665	0.066	1.31
25	1.698114	0.066	1.37
26	1.715955	0.066	1.44
27	1.660187	0.064	1.50
28	1.67641	0.062	1.57
29	1.594024	0.051	1.62
30	1.327627	0.037	1.65
31	1.360421	0.027	1.68
32	1.155504	-0.005	1.68
33	0.203476	1.476	3.15

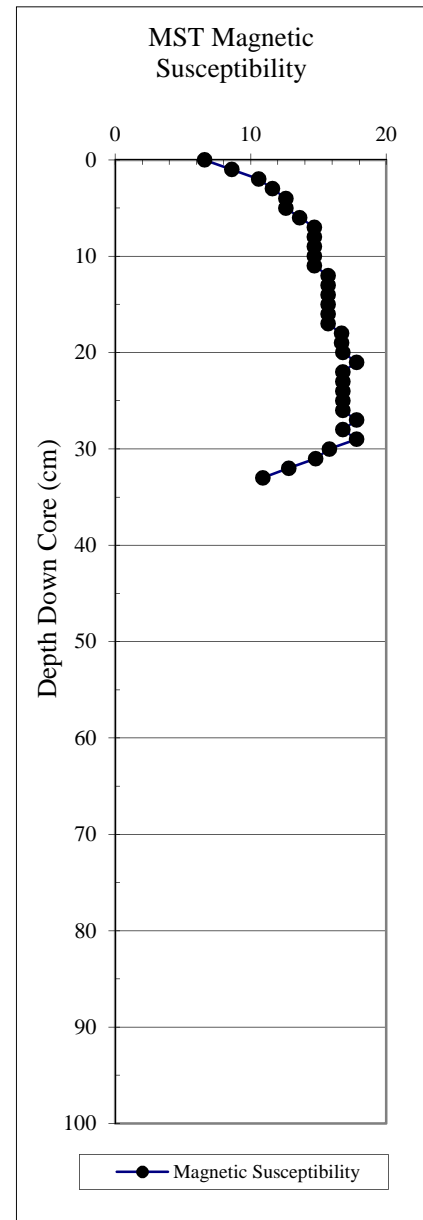


Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.54	0.86	65.80	2.52	1.92	43.85	78.09
9	1.61	0.94	65.96	2.76	1.94	41.83	71.92
** 33	1.77	1.19	56.19	2.72	1.28	32.57	48.31
averages:	1.64	1.00	62.65	2.67	1.71	39.42	66.11

sediment on lid

Cruise No: 2005801
Station: 141
Sample Type: Push Core
Data Type: MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	6.6
1	8.6
2	10.6
3	11.6
4	12.6
5	12.6
6	13.6
7	14.7
8	14.7
9	14.7
10	14.7
11	14.7
12	15.7
13	15.7
14	15.7
15	15.7
16	15.7
17	15.7
18	16.7
19	16.7
20	16.8
21	17.8
22	16.8
23	16.8
24	16.8
25	16.8
26	16.8
27	17.8
28	16.8
29	17.8
30	15.8
31	14.8
32	12.8
33	10.9



Cruise No: 2005801

Station: 141

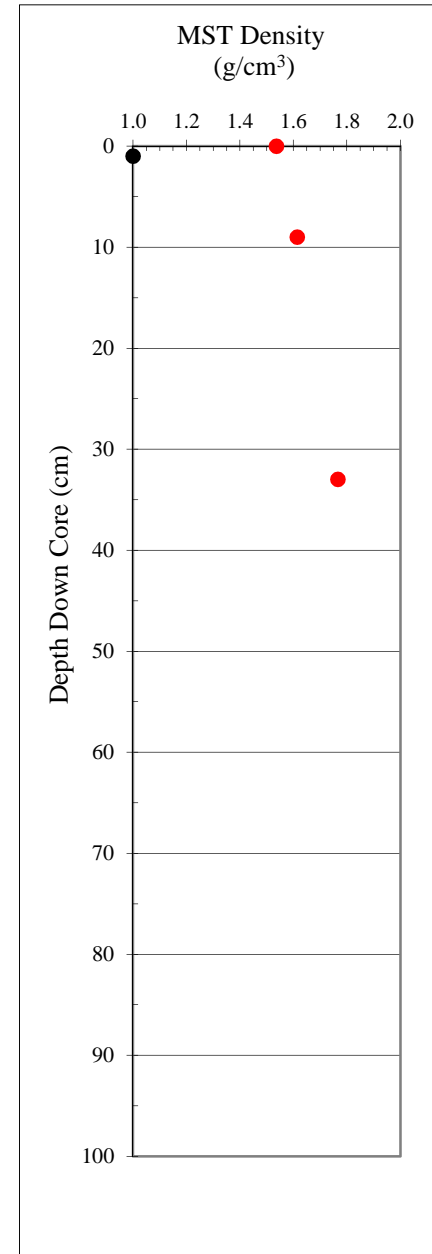
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.54	0.86	65.80	2.52	1.92	43.85	78.09
9	1.61	0.94	65.96	2.76	1.94	41.83	71.92
** 33	1.77	1.19	56.19	2.72	1.28	32.57	48.31
averages:	1.64	1.00	62.65	2.67	1.71	39.42	66.11

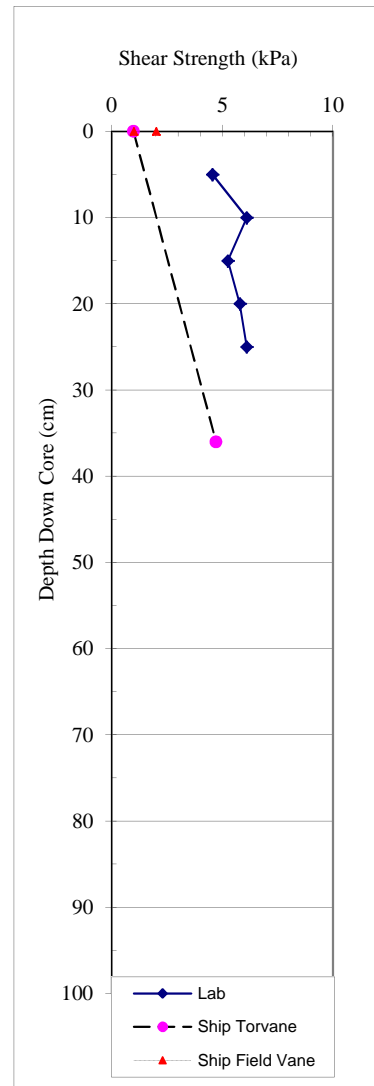
sediment on lid



Cruise No: 2003801
 Station: 141
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
5	4.55249	1.62038	2.81
10	6.09571	1.69754	3.59
15	5.24694		
20	5.79		
25	6.10	0.69445	8.78

average 5.56



Cruise No: 2003801
 Station: 141
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.9807
36.0	4.70736

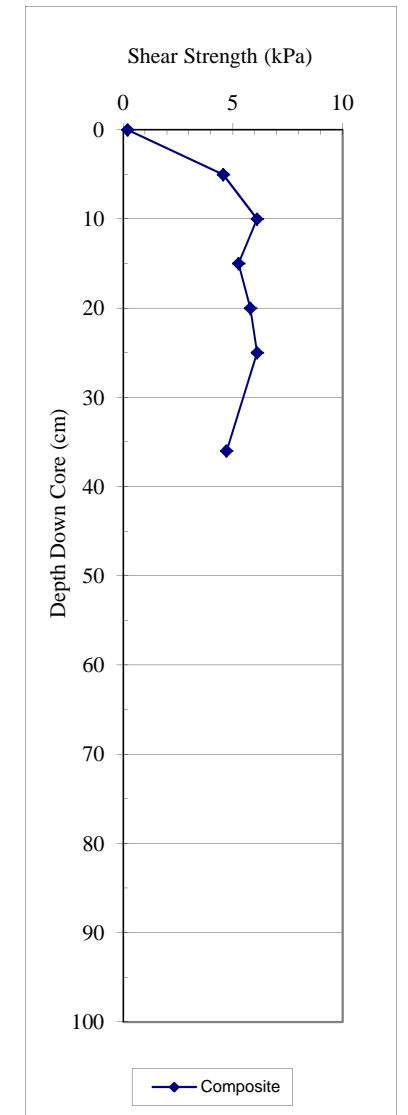
Cruise No: 2003801
 Station: 141
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

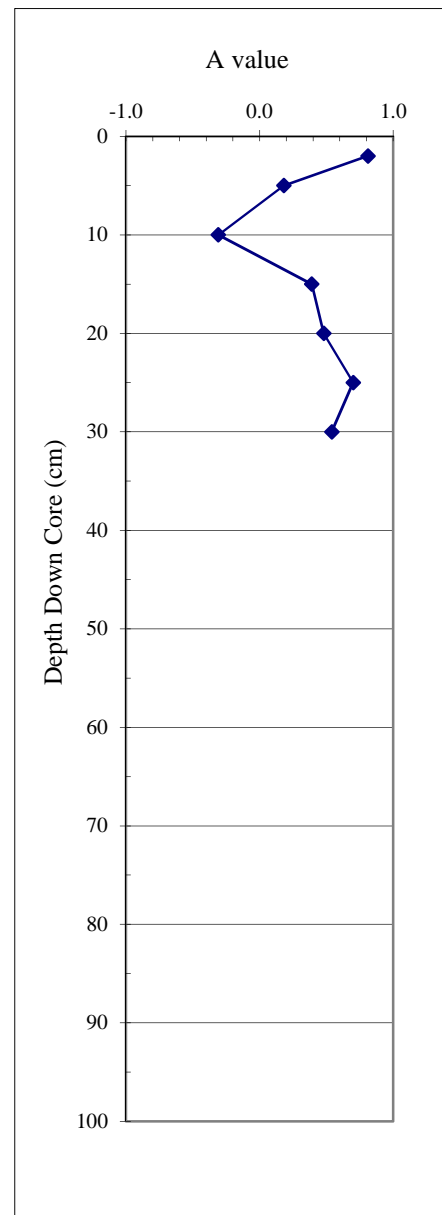
Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.2	
5	4.55249	1.62038
10	6.09571	1.69754
15	5.24694	
20	5.79	
25	6.10	0.69445
36.0	4.70736	

average 4.67



Cruise No: 2003801
Station: 141
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	0.81	3.19	42.47
5	0.18	1.85	40.21
10	-0.31	0.29	43.11
15	0.39	1.94	46.12
20	0.48	2.18	46.43
25	0.7	3.06	45.26
30	0.54	2.52	45.99
average	0.40	2.15	44.23



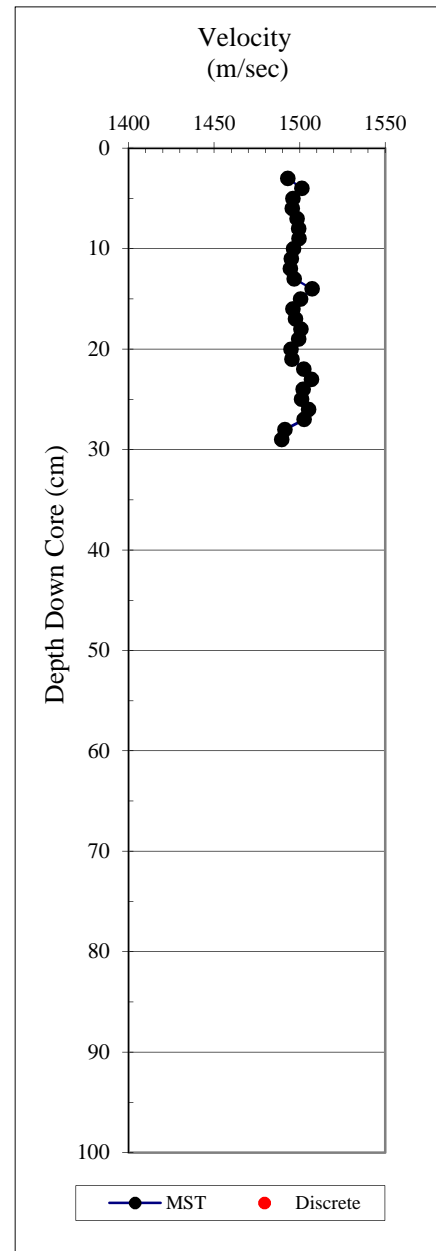
Cruise No: 2005801

Station: 141

Sample Type: Push Core

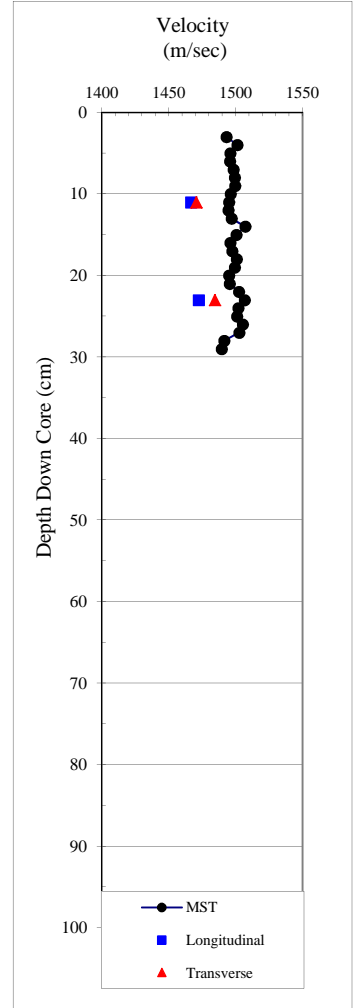
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1493.13
4	1501.28
5	1496.13
6	1495.78
7	1498.55
8	1499.48
9	1499.62
10	1496.38
11	1495.08
12	1494.52
13	1496.9
14	1507.29
15	1500.6
16	1496.15
17	1497.6
18	1500.78
19	1499.5
20	1495.03
21	1495.49
22	1502.39
23	1506.85
24	1502.08
25	1501.17
26	1505.31
27	1502.66
28	1491.42
29	1489.57



Cruise No: 2005801
 Station: 141
 Sample Type: Push Core
 Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
3	1493.13		
4	1501.28		
5	1496.13		
6	1495.78		
7	1498.55		
8	1499.48		
9	1499.62		
10	1496.38		
11	1495.08	1466.73	1470.72
12	1494.52		
13	1496.9		
14	1507.29		
15	1500.6		
16	1496.15		
17	1497.6		
18	1500.78		
19	1499.5		
20	1495.03		
21	1495.49		
22	1502.39		
23	1506.85	1472.41	1484.46
24	1502.08		
25	1501.17		
26	1505.31		
27	1502.66		
28	1491.42		
29	1489.57		



Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

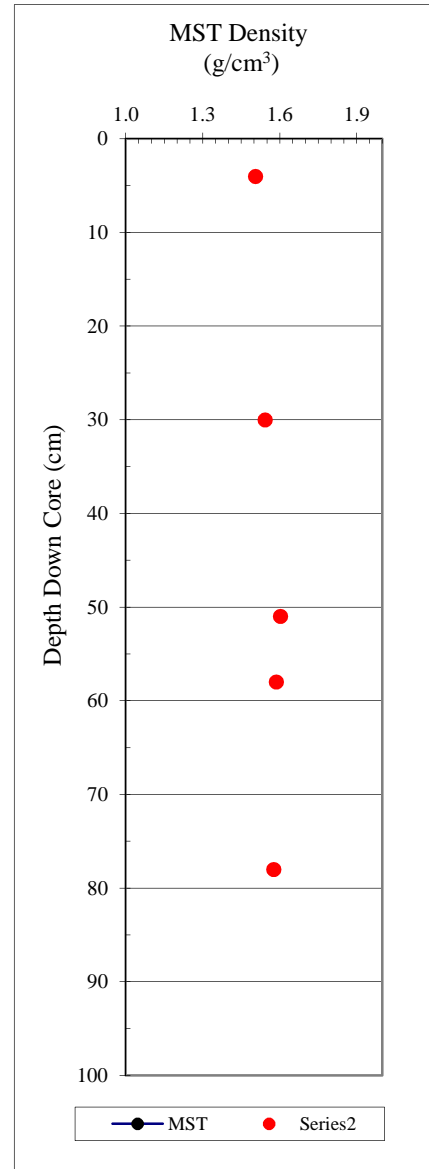
Station: 10A

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
4	1.5046
30	1.5422
51	1.6016
58	1.5865
78	1.5759
106	1.5505

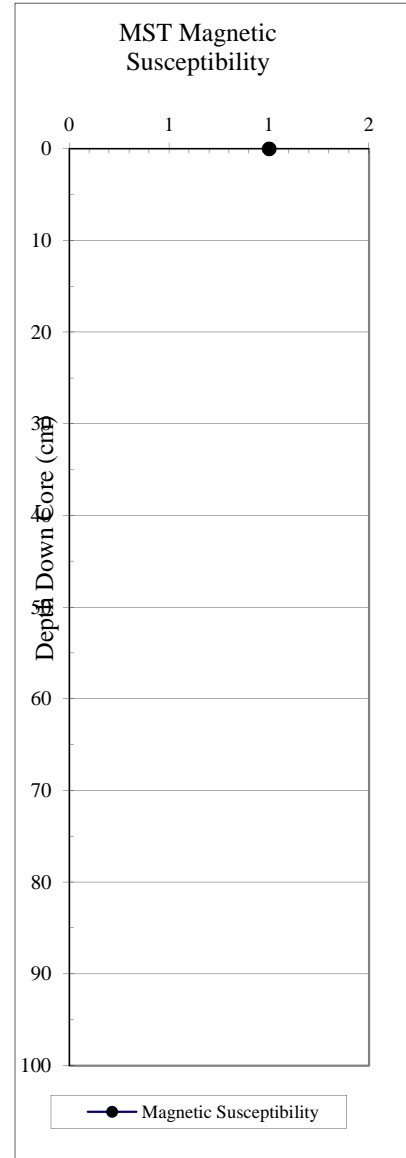
Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 10A

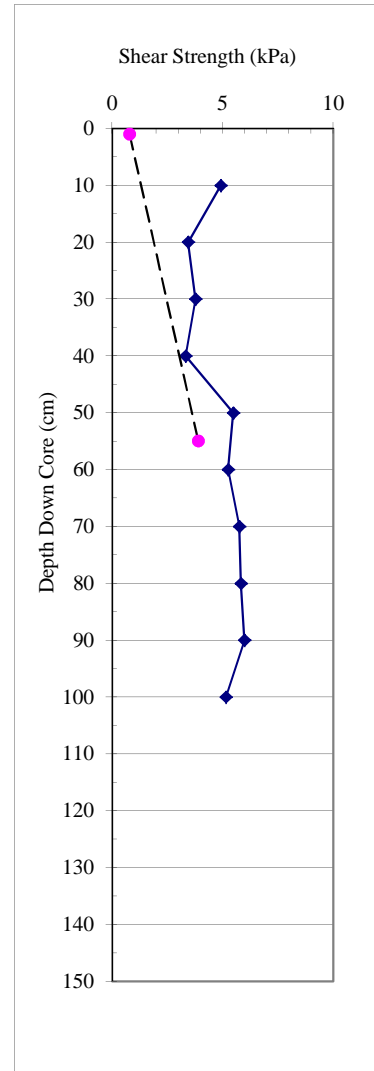
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.5046	0.7786	70.8973	2.6754	2.4361	48.2514	93.242
30	1.5422	0.8298	69.5668	2.7268	2.2859	46.1912	85.8432
51	1.6016	0.9124	67.3055	2.7907	2.0586	43.0322	75.5376
58	1.5865	0.8846	68.5471	2.8124	2.1794	44.243	79.3497
78	1.5759	0.8854	67.4355	2.7188	2.0708	43.8189	77.9959
106	1.5505	0.8461	68.7856	2.7106	2.2037	45.4295	83.2493

Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	4.91	4.23	1.16
20	3.43	1.44	2.38
30	3.77		
40	3.32		
50	5.48	4.80	1.14
60	5.25	5.03	1.05
70	5.76	4.21	1.37
80	5.83		
90	5.98		
100	5.14	3.43	1.50



Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

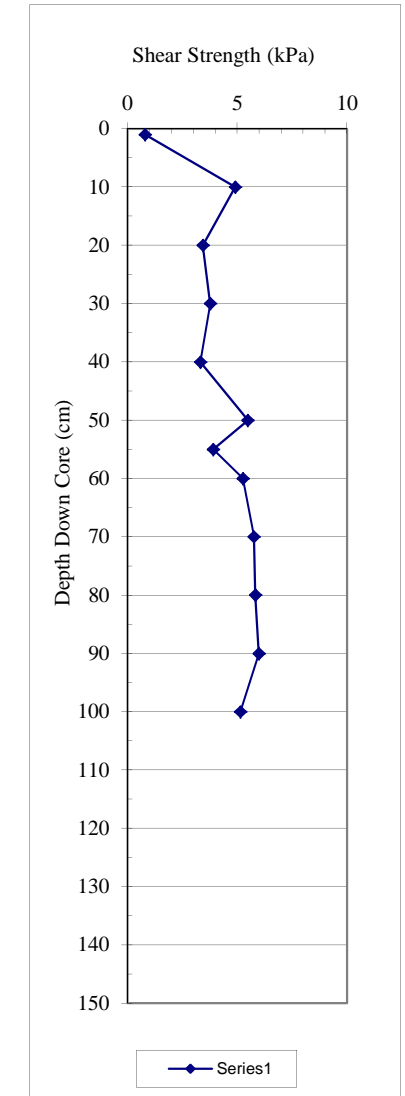
Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
1.0	0.8
55.0	3.9

Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1	0.80	
10	4.91	4.23
20	3.43	1.44
30	3.77	
40	3.32	
50	5.48	4.80
55	3.90	
60	5.25	
70	5.76	5.03
80	5.83	4.21
90	5.98	
100	5.14	



Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.74	2.86	45.95
10	1	4.24	42.27
15	1.05	3.91	44.03
20	1.01	4.24	42.28
25	0.98	4.48	41.5
30	0.93	4.16	41.98
35	0.98	4.33	43.12
40	0.94	4.51	41.62
45	0.76	3.49	44.38
50	0.91	4.4	41.31
55	0.53	2.62	45.02
60	0.74	3.3	43.69
65	0.7	3.42	42.1
70	0.89	3.85	43.86
75	0.53	2.73	46.54
80	0.64	2.82	45.66
85	0.49	2.54	45.97
90	0.62	2.8	45.92
95	0.69	3.36	44.47
100	0.53	2.67	45.97
105	0.66	2.86	44.42
110	0.72	3.81	41.09

Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1452.86	1459.45
20		1450.11	1455.55
30		1450.11	1459.45
40		1452.86	1459.45
50		1461.18	1467.32
60		1447.36	1455.55
70		1447.36	1463.38
80		1455.62	1471.28
90		1452.86	1463.38
100		1450.11	1459.45

Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

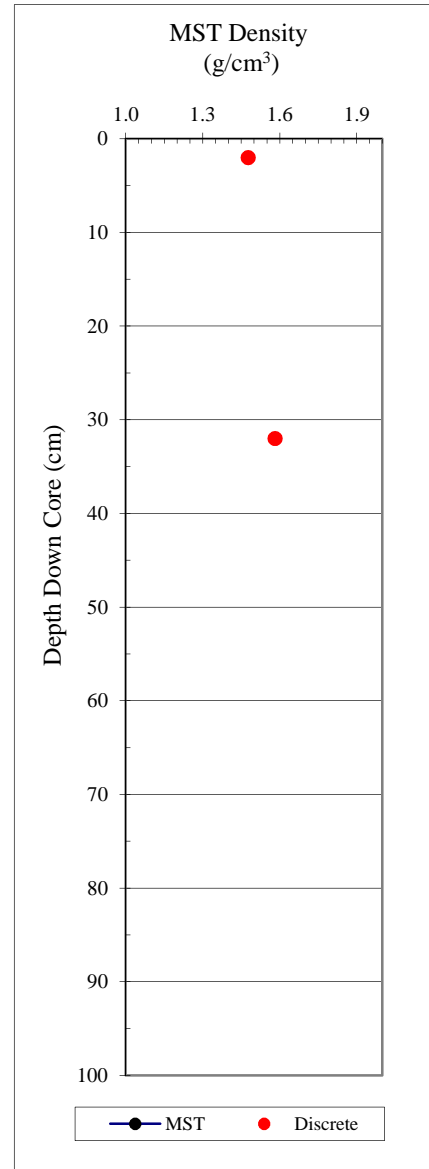
Station: 1

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
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38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.476614276
32	1.580878967
averages:	1.53

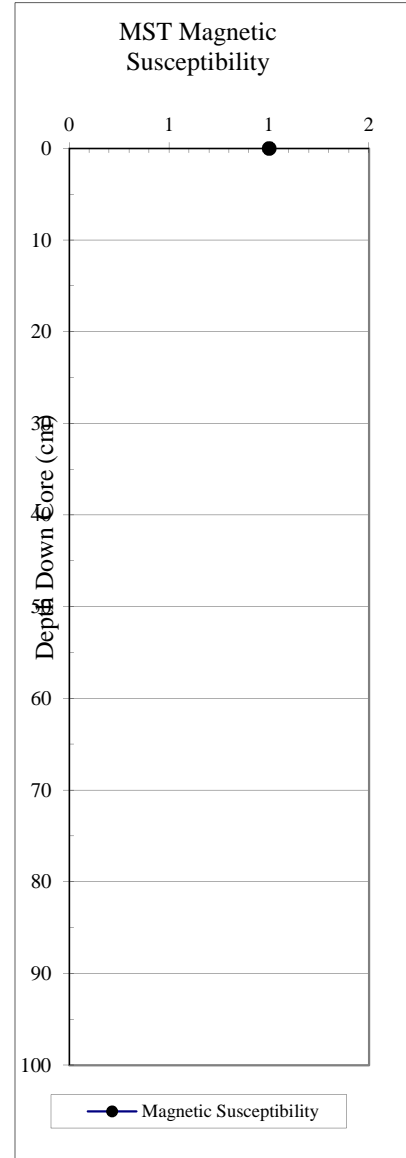
Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 1

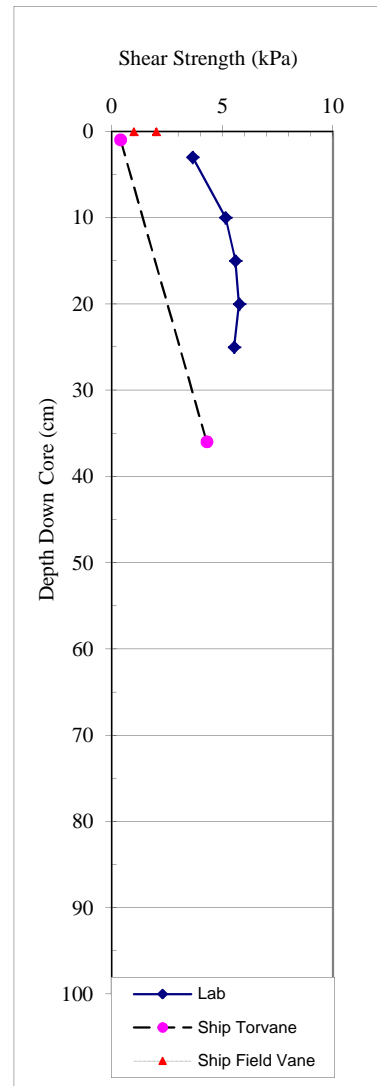
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.4766	0.7366	72.2702	2.6562	2.6062	50.1178	100.4725
32	1.5809	0.8819	68.2645	2.7787	2.1510	44.2177	79.2683

Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	3	3.66	
10	5.14	1.49	3.46
15	5.60		
20	5.76	1.99	2.89
25	5.54		
30	6.05	3.66	1.66
35	6.85	0.91	7.50



Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.4
36.0	4.3

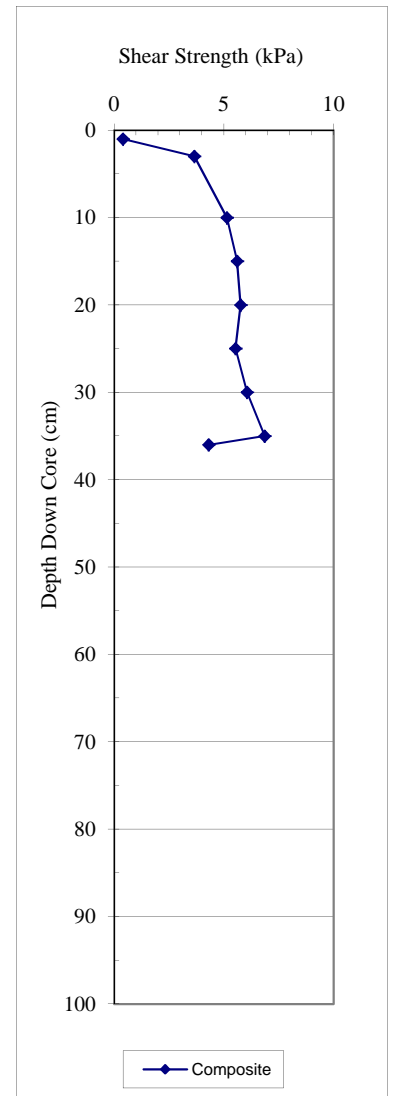
Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	1.0	0.40
3	3.66	1.49
10	5.14	
15	5.60	1.99
20	5.76	
25	5.54	3.66
30	6.05	0.91
35	6.85	
36.0	4.30	

average 4.81



Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.86	3.55	45.71
10	0.58	2.94	47.68
15	0.87	3.57	44.41
20	0.8	3.65	45.07
25	0.85	4.3	42.52
30	0.8	4.11	42.2
35	1.14	4.66	44.13
<i>average:</i>	0.84	3.83	44.53

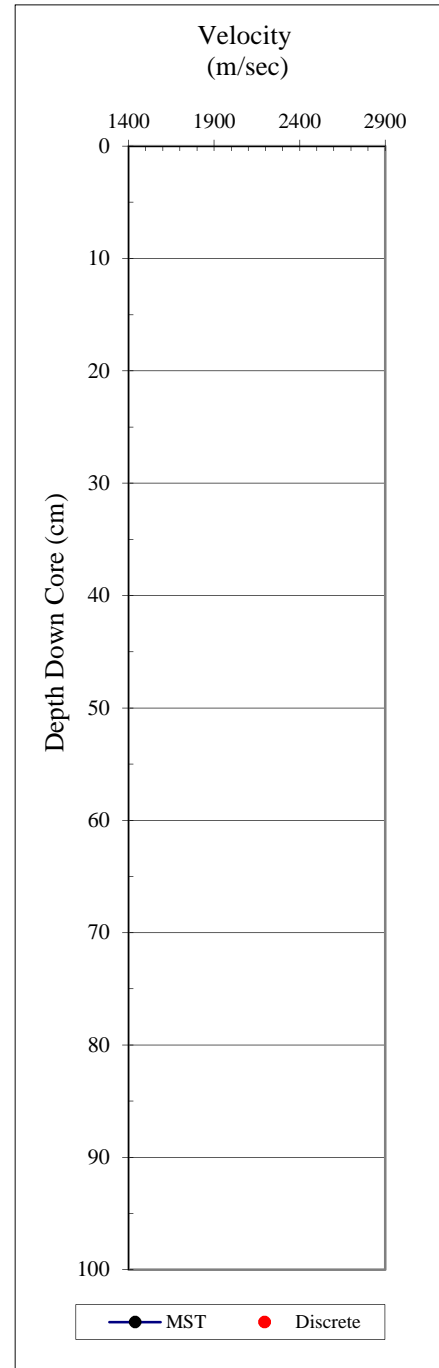
Cruise No: 2006801

Station: 1

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA



Cruise No: 2006801

Station: 1

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
10		1553.5	1470.5
20		1450.47	1470.5
30		1453.22	1474.48

Cruise No: 2006801

Station: 2

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

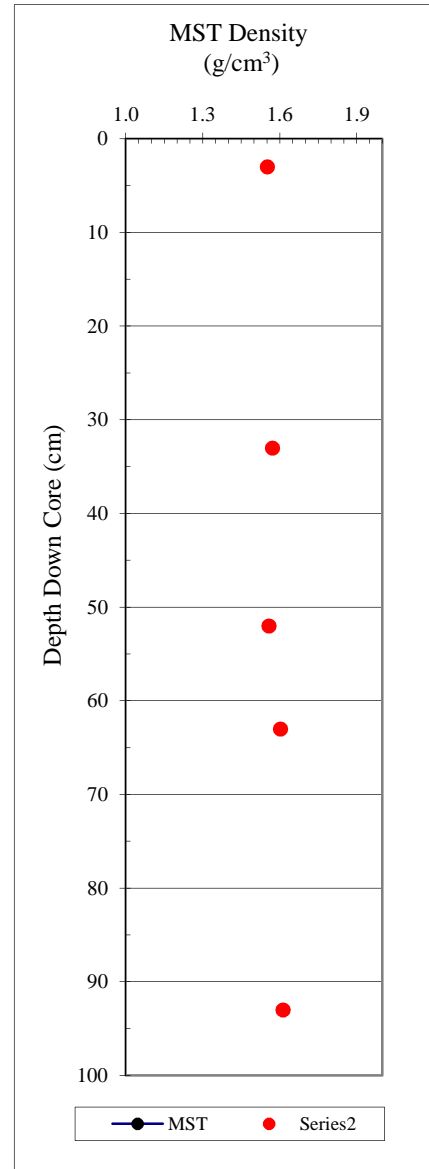
Station: 2

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk		Total
	Density (g/cm ³)	<u>Overburden</u> <u>Pressure (kPa)</u>	
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
3	1.5505
33	1.5704
52	1.5573
63	1.6017
93	1.6115
116	1.6054

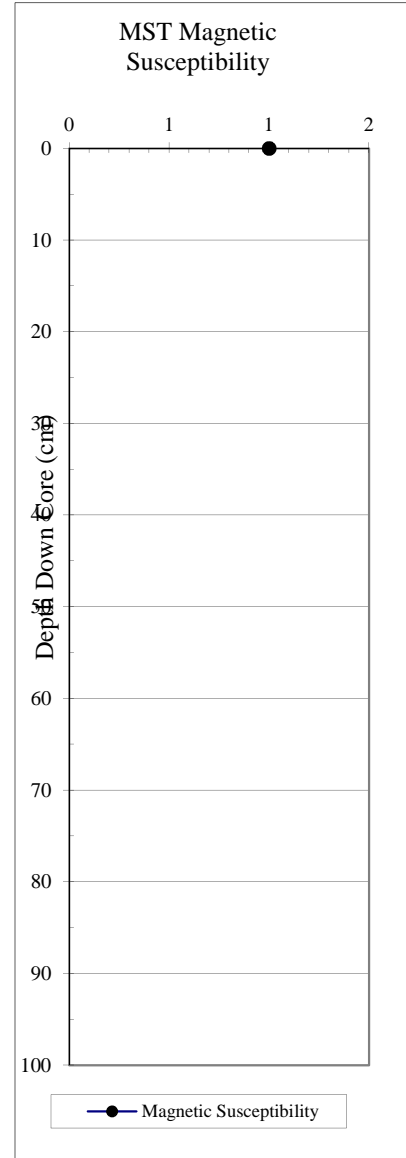
Cruise No: 2006801

Station: 2

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 2

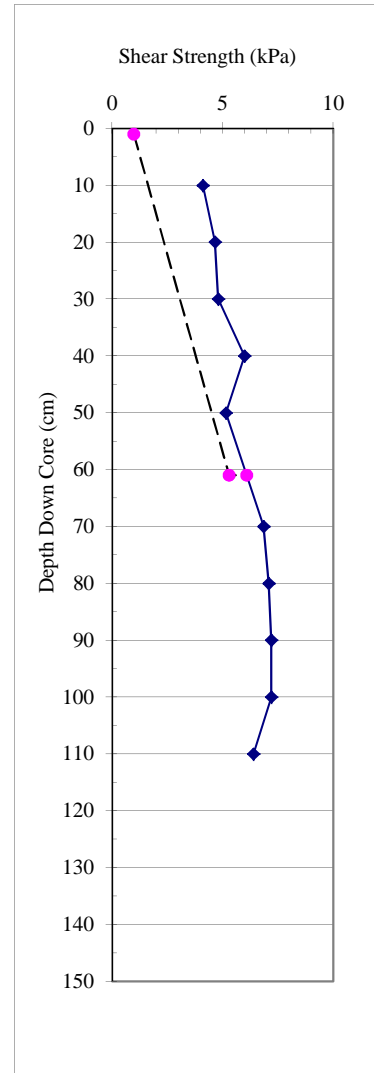
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.551	0.841	69.267	2.737	2.254	45.745	84.316
33	1.570	0.867	68.726	2.771	2.198	44.815	81.207
52	1.557	0.849	69.208	2.756	2.248	45.509	83.515
63	1.602	0.917	66.899	2.769	2.021	42.769	74.730
93	1.612	0.933	66.288	2.767	1.966	42.120	72.772
116	1.605	0.918	67.118	2.792	2.041	42.812	74.862

Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>	Sensitivity
	<u>Undrained</u> Shear Shear (kPa)	<u>Undrained</u> Shear Shear (kPa)	
10	4.11	3.09	1.33
20	4.65	2.66	1.75
30	4.80	3.08	1.56
40	5.98	2.99	2.00
50	5.14		
70	6.85	2.86	2.40
80	7.09	2.22	3.20
90	7.20		
100	7.20		
110	6.40	4.00	1.60



Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

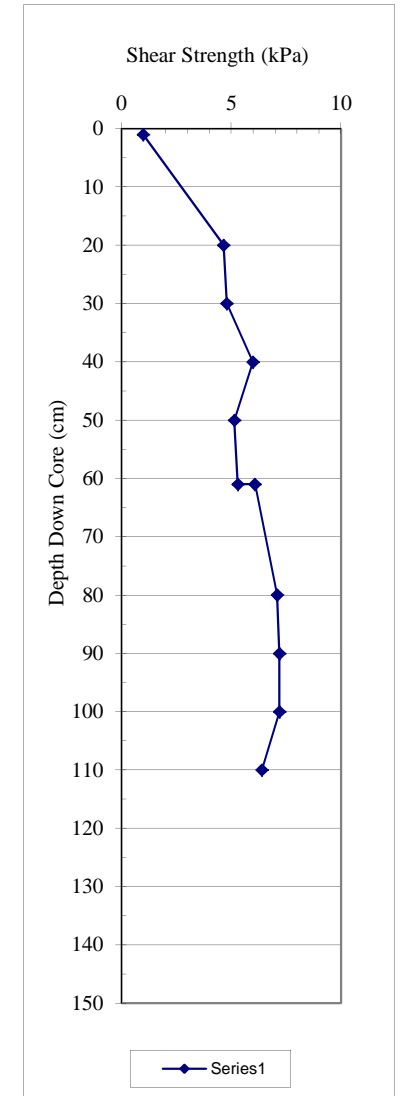
Depth Down Core (cm)	<u>Peak</u>
	<u>Undrained</u> Shear Shear (kPa)
1.0	1.0
61.0	5.3
61.0	6.1

Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u>
	<u>Undrained</u> Shear Shear (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u> Shear Shear (kPa)	<u>Undrained</u> Shear Shear (kPa)
1.0	1.0	3.09
20	4.65	2.66
30	4.80	3.08
40	5.98	2.99
50	5.14	
61.0	5.3	2.86
61.0	6.1	2.22
80	7.09	2.22
90	7.20	
100	7.20	
110	6.40	4.00



Cruise No: 2006801

Station: 2

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.03	4.48	43.99
10	0.93	3.94	45.61
15	1.2	4.6	43.6
20	0.84	4.07	40.35
25	1	3.94	40.75
30	0.76	3.17	43.26
35	0.62	2.52	43.1
40	0.3	1.62	43.39
45	0.53	2.72	44.18
50	0.61	2.04	45.93
55	0.6	2.79	43.1
60	0.48	2.63	45.17
65	0.46	3.01	45.21
70	0.8	3.5	43.9
75	0.85	3.73	41.98
80	0.96	4.47	40.71
85	0.91	4.13	41.59
90	0.87	4.56	39.73
95	0.71	3.18	46.02
100	0.93	3.78	43.96
105	0.72	3.25	44.68
110	0.83	3.83	43.19
115	0.79	3.81	44.2

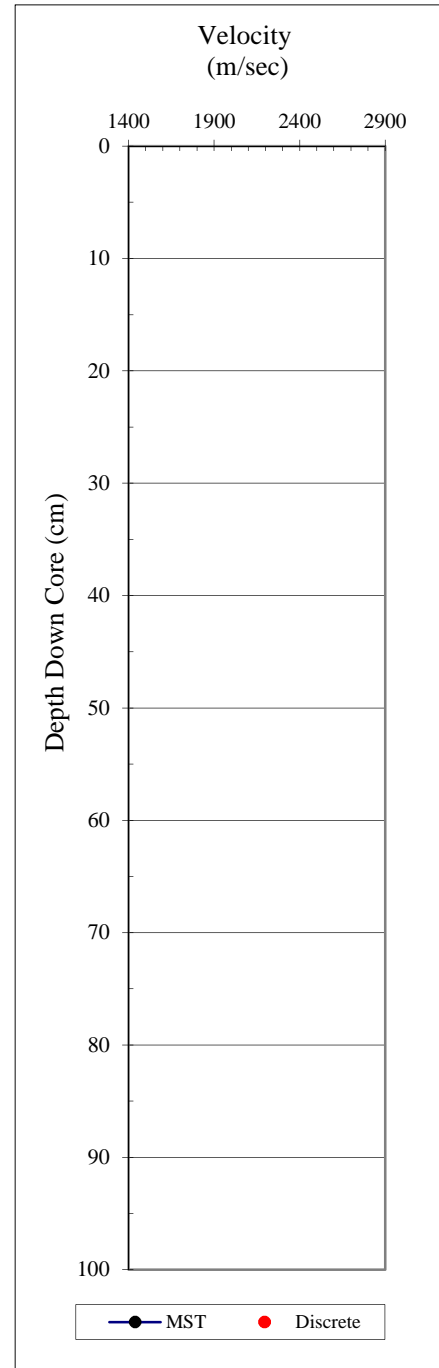
Cruise No: 2006801

Station: 2

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA



Cruise No: 2006801

Station: 2

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1464.92	1474.47
20		1462.12	1466.54
30		1464.92	1474.47
40		1470.55	1478.46
50		1459.34	1474.47
70		1453.8	1462.61
80		1453.8	1462.61
90		1459.34	1462.61
100		1459.34	1470.49
110		1459.34	1466.54

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

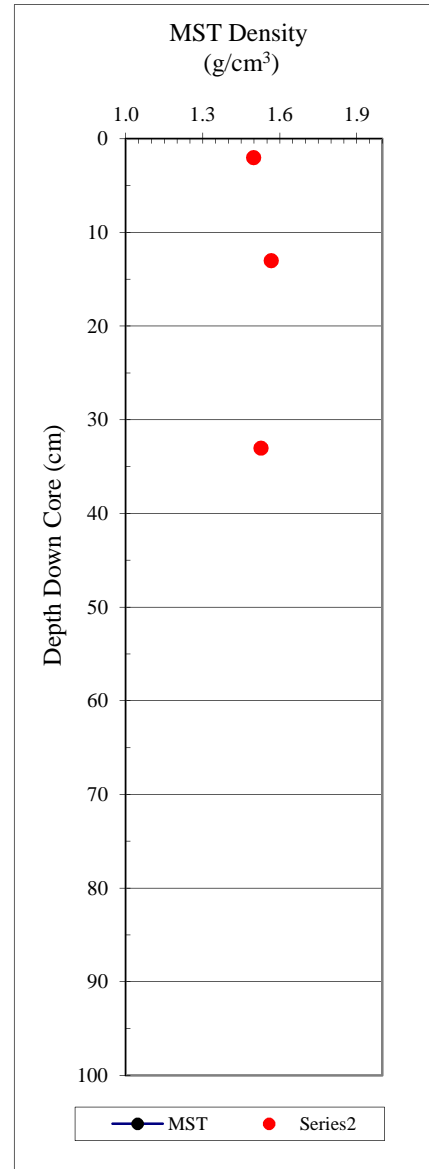
Station: 5A

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.4973
13	1.5655
33	1.5258
0	0
0	0
0	0

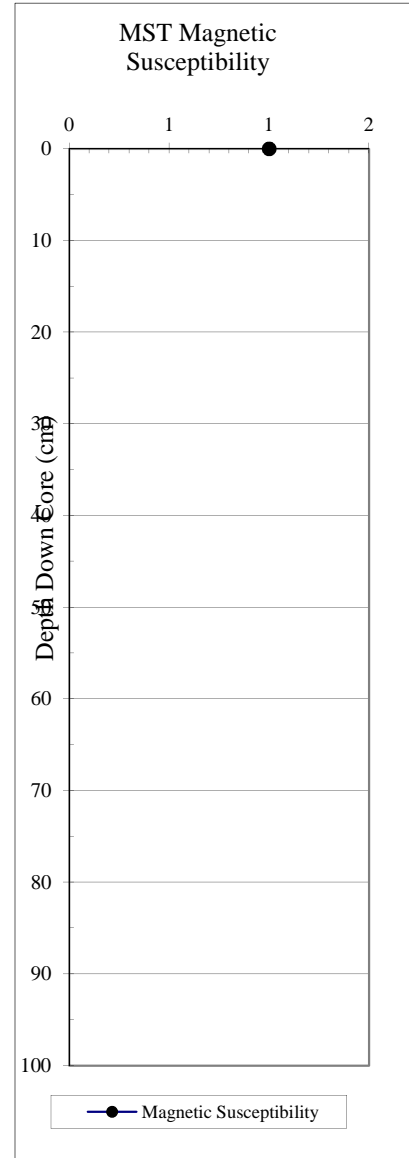
Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 5A

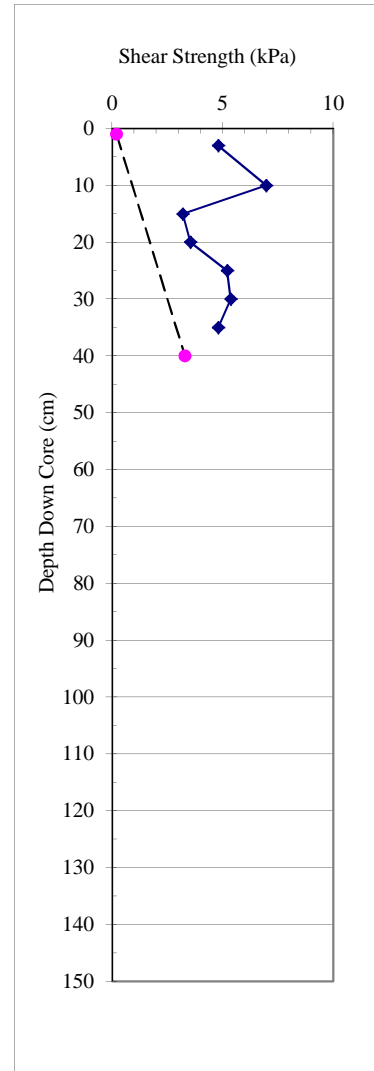
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.4973	0.7604	71.9649	2.7123	2.567	49.2161	96.9127
13	1.5655	0.8616	68.7348	2.7559	2.1984	44.9602	81.6868
33	1.5258	0.8146	69.4582	2.6672	2.2742	46.6136	87.3135

Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
3	4.79772	2.40	2.00
10	6.96811	2.06	3.39
15	3.19848		4.00
20	3.54446	0.89	4.00
25	5.20592		
30	5.36887	3.20	1.68
35	4.79772	1.26	1.68



Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Shipboard Torvane

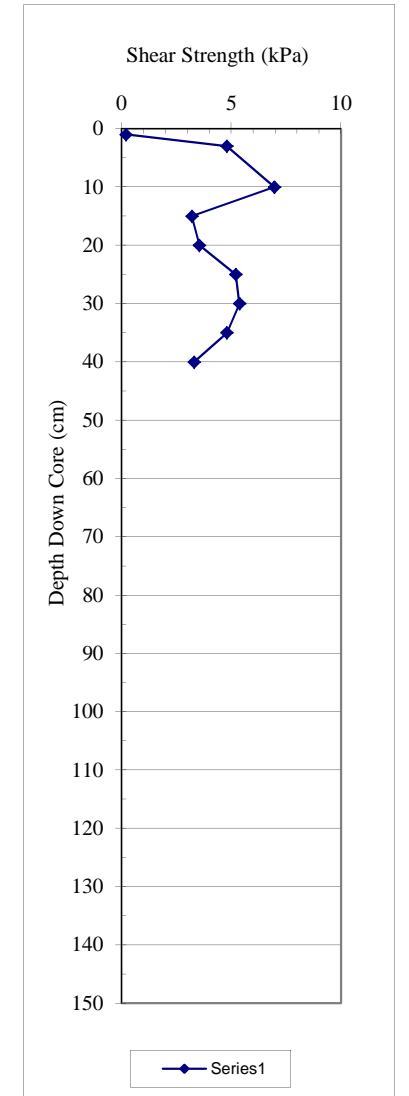
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
1.0	0.2
40.0	3.3

Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
1	0.20	
3	4.80	2.40
10	6.97	2.06
15	3.20	
20	3.54	0.89
25	5.21	
30	5.37	3.20
35	4.80	1.26
40	3.30	



Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.38	5.72	42.37
10	0.66	3.35	43.64
15	0.69	4.3	41.71
20	0.74	4.13	41.42
25	0.63	4.36	41.28
30	0.72	3.8	43.07
35	0.36	2.91	45.09

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1455.98	1478.48
20		1447.72	1466.54
30		1447.72	1466.54

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

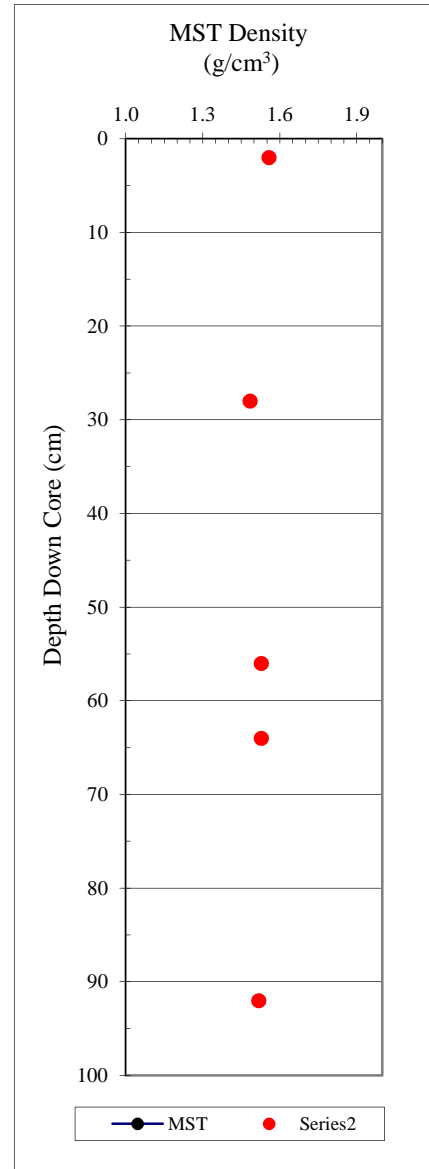
Station: 6

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk		Total
	Density (g/cm ³)	<u>Overburden</u> <i>Pressure (kPa)</i>	
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.5567
28	1.4836
56	1.5269
64	1.5272
92	1.5169
118	1.5539

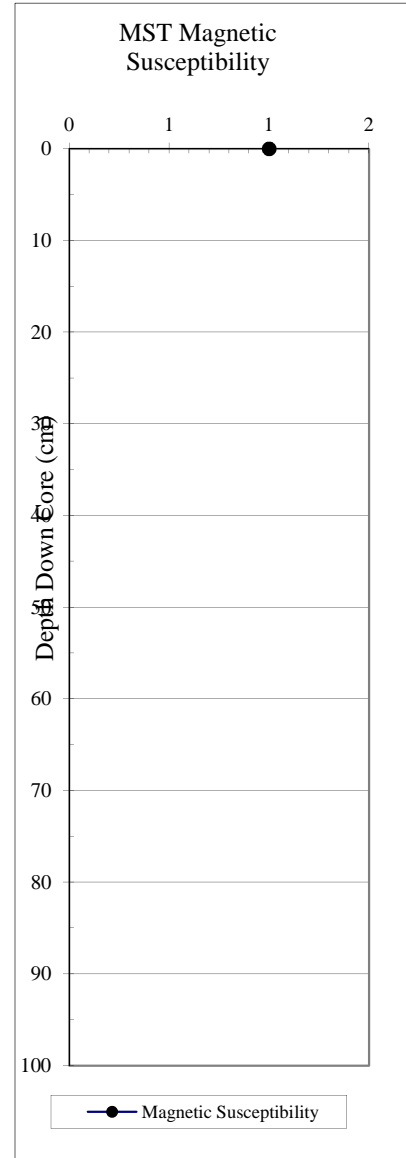
Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 6

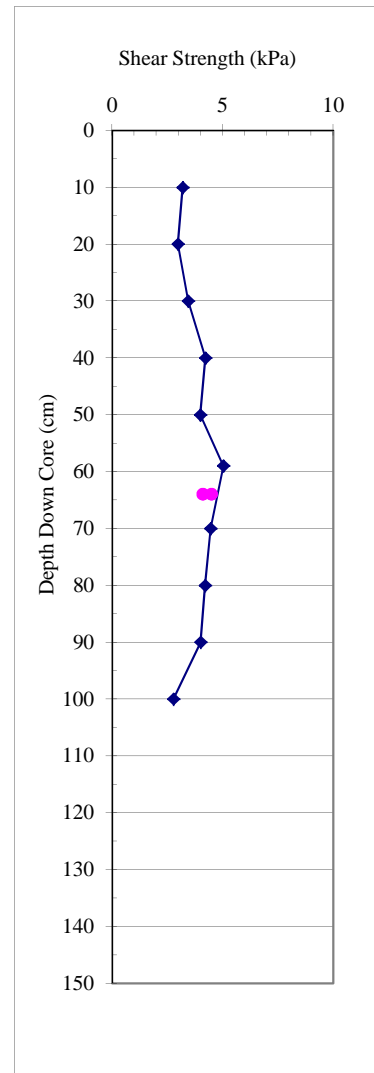
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.5567	0.8479	69.2099	2.7539	2.2478	45.5278	83.5799
28	1.4836	0.7486	71.7684	2.6518	2.5421	49.5371	98.1653
56	1.5269	0.8056	70.4408	2.7254	2.383	47.2401	89.5378
64	1.5272	0.8031	70.7184	2.7426	2.4151	47.4163	90.1732
92	1.5169	0.7855	71.4272	2.7492	2.4998	48.2165	93.1117
118	1.5539	0.8314	70.5532	2.8235	2.396	46.494	86.8948

Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	10	3.20	
20	2.97	0.91	3.25
30	3.43	1.44	2.38
40	4.23	1.49	2.85
50	3.99	2.77	1.44
59	5.03	2.17	2.32
70	4.46	1.26	3.55
80	4.21	1.99	2.11
90	4.00	1.37	2.92
100	2.77	1.88	1.47
110	5.94	1.49	4.00
120	5.98	1.99	3.00



Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

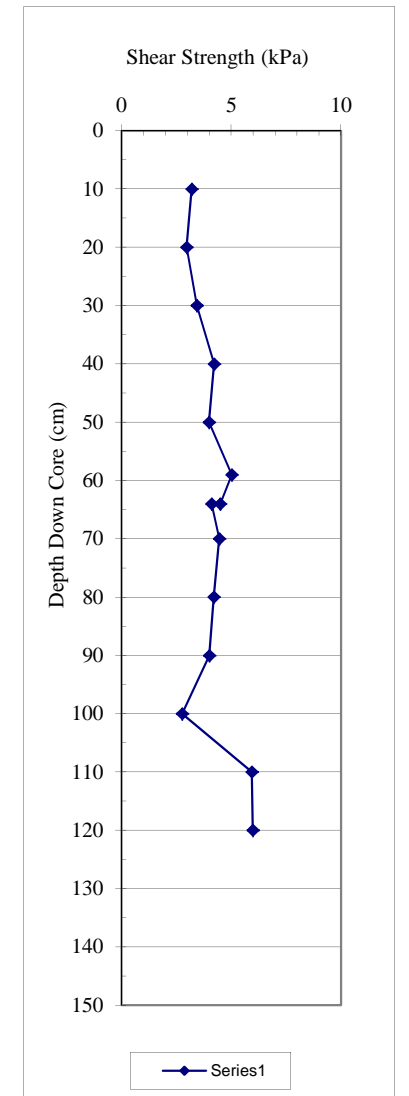
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
64.0	4.5
64.0	4.1

Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
10	3.20	1.14
20	2.97	0.91
30	3.43	1.44
40	4.23	1.49
50	3.99	2.77
59	5.03	2.17
64	4.5	
64	4.1	
70	4.46	1.26
80	4.21	1.99
90	4.00	1.37
100	2.77	1.88
110	5.94	1.49
120	5.98	1.99



Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.81	3.42	44.67
10	0.79	3.9	42.13
15	0.35	2.76	41.81
20	0.69	4.87	40.34
25	0.6	3.42	43.72
30	0.59	3.09	42.71
35	0.33	3.1	42.41
40	0.66	3.58	42.98
45	0.57	3.79	42.24
50	0.48	3.31	42.28
55	0.23	3.52	42.1
60	0.48	3.71	42.47
65	0.47	3.97	41.66
70	0.76	3.76	42.41
75	0.33	3.04	44.41
80	0.45	2.81	46.43
85	0.62	3.52	44.4
90	0.19	2.71	44.11
95	0.52	3.16	45.11
100	0.68	3.69	43.3
105	0.56	3.86	41.3
110	0.53	3.54	43.52
115	0.43	3.13	44.02
120	0.54	3.17	43.74

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1439.55	1458.69
20		1436.85	1450.92
30		1444.99	1454.8
40		1444.99	1454.8
50		1444.99	1458.69
70		1436.85	1447.07
80		1436.85	1450.92
90		1447.72	1454.8
100		1450.47	1458.69
110		1442.27	1454.8

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

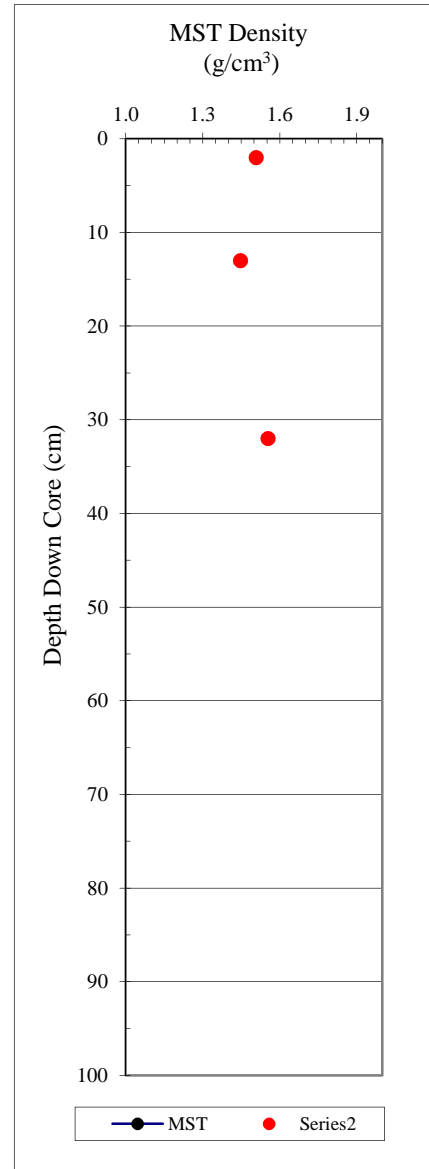
Station: 9A

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
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24			
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33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.507
13	1.4466
32	1.5535

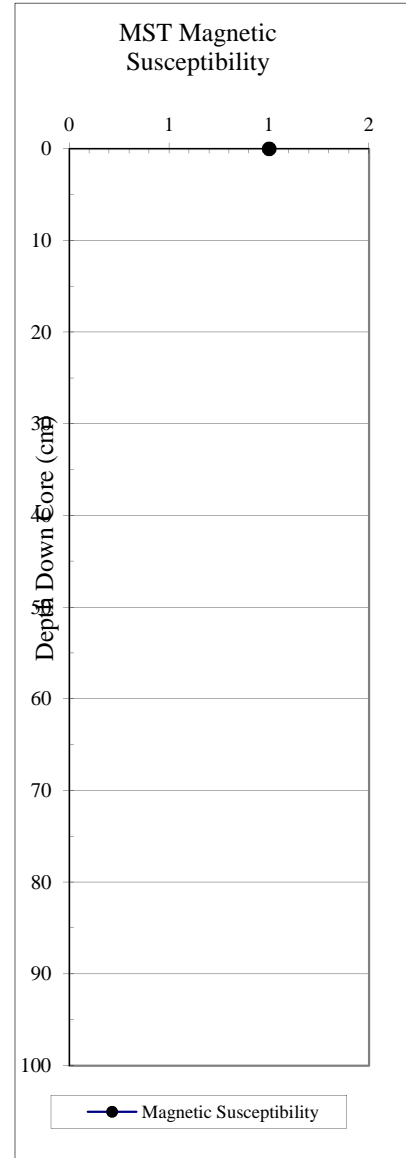
Cruise No: 2006801

Station: 2A

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 9A

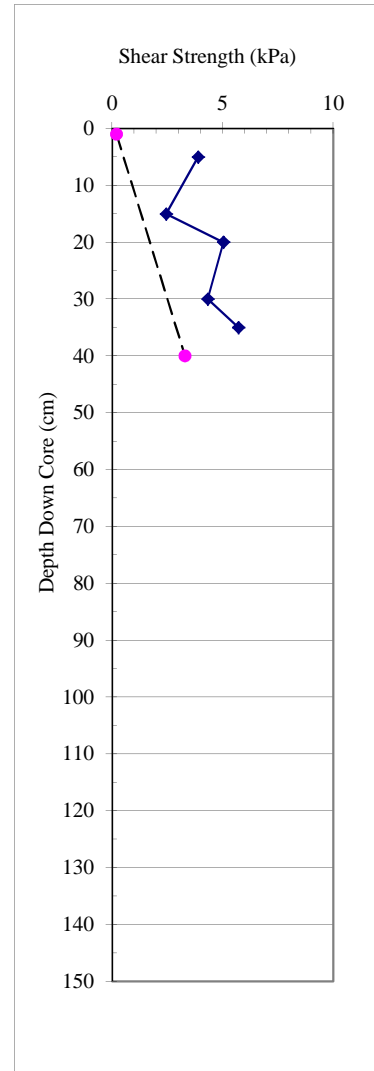
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.507	0.7889	70.123	2.6405	2.3471	47.6493	91.0195
13	1.4466	0.6937	73.5262	2.6203	2.7773	52.0463	108.5346
32	1.5535	0.8422	69.4602	2.7578	2.2744	45.7849	84.4504

Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
5	3.88387	1.49	2.61
15	2.43681	1.11	2.20
20	5.02618		
30	4.31981		
35	5.71157	2.51	2.28



Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Shipboard Torvane

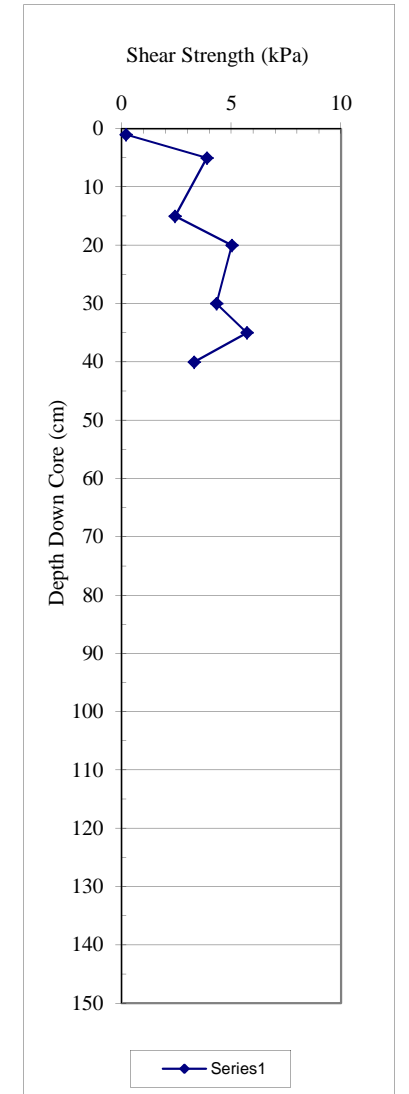
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
1.0	0.2
40.0	3.3

Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
1.0	0.20	
5	3.88	1.49
15	2.44	1.11
20	5.03	
30	4.32	
35	5.71	2.51
40.0	3.30	



Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.03	3.98	42.39
10	0.91	3.92	41.12
15	0.8	3.92	41.77
20	0.73	3.66	42.28
25	0.54	3.02	42.96
30	0.71	3.69	43.54
35	1.02	4.51	41.77

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

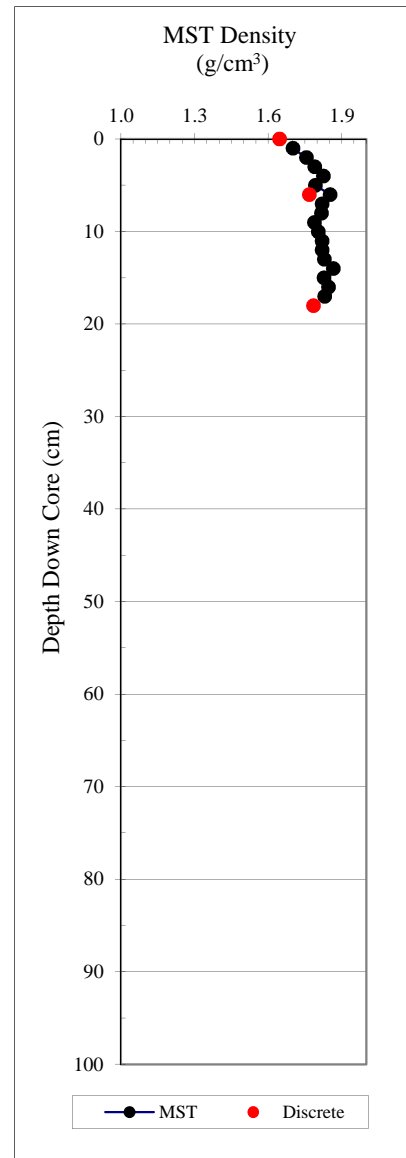
Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1442.27	1450.92
20		1444.99	1466.54
30		1444.99	1466.54

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1	1.701		
2	1.756		
3	1.789		
4	1.825		
5	1.792		
6	1.851		
7	1.819		
8	1.817		
9	1.788		
10	1.804		
11	1.820		
12	1.819		
13	1.829		
14	1.864		
15	1.827		
16	1.845		
17	1.830		
18			
average	1.810		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.65	1.06	57.18	2.48	1.34	35.58	55.23
6	1.77	1.16	58.84	2.83	1.43	34.09	51.73
** 18	1.78	1.23	54.32	2.69	1.19	31.18	45.30
averages:	1.73	1.15	56.78	2.66	1.32	33.62	50.75

Cruise No: 2007802

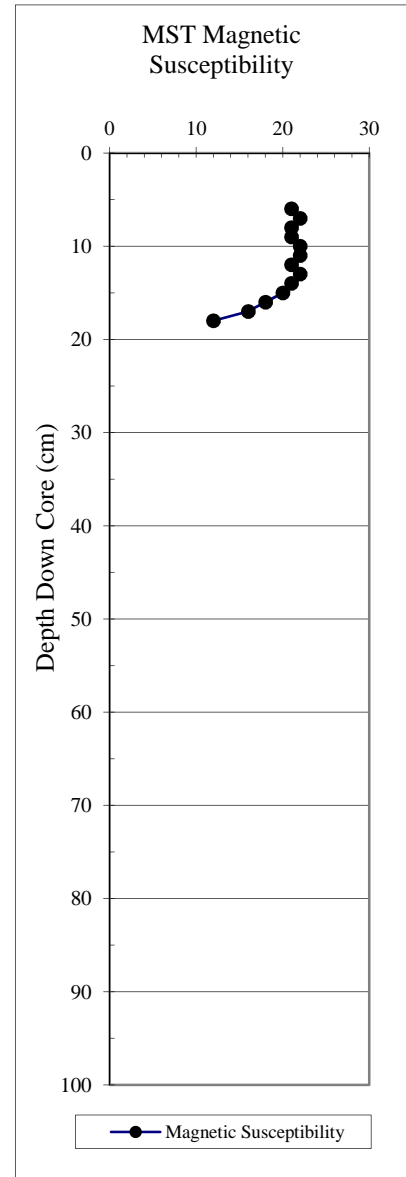
Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	13.00
2	16.00
3	18.00
4	19.00
5	20.00
6	21.00
7	22.00
8	21.00
9	21.00
10	22.00
11	22.00
12	21.00
13	22.00
14	21.00
15	20.00
16	18.00
17	16.00
18	12.00



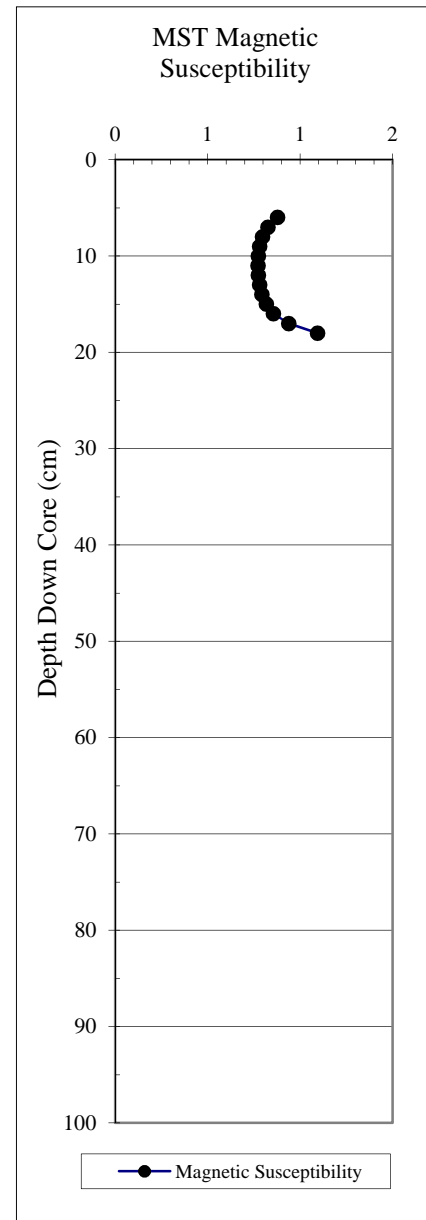
Cruise No: 2007802

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.205
2	1.912
3	1.529
4	1.199
5	0.990
6	0.879
7	0.827
8	0.796
9	0.781
10	0.774
11	0.772
12	0.774
13	0.781
14	0.794
15	0.817
16	0.856
17	0.939
18	1.094



Cruise No: 2007802

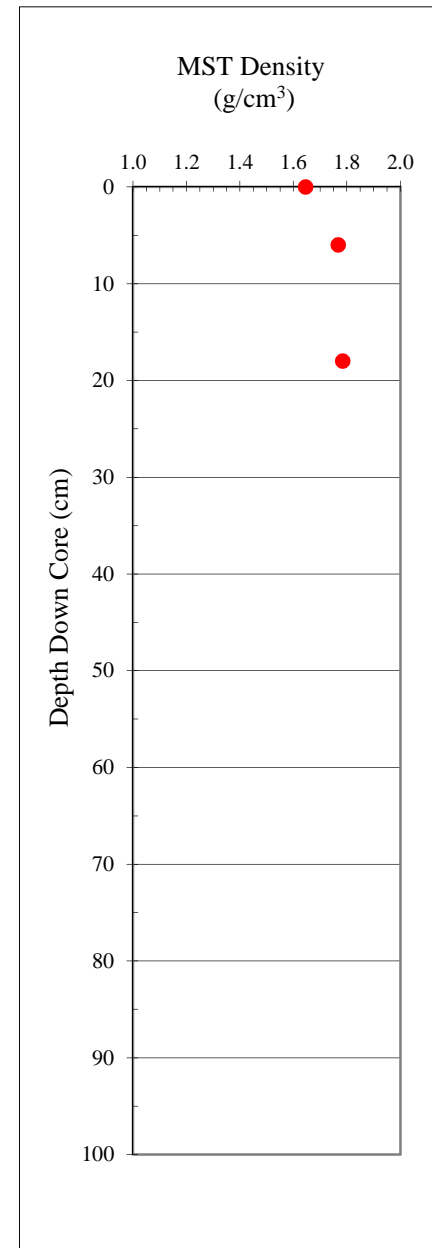
Station: 11

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

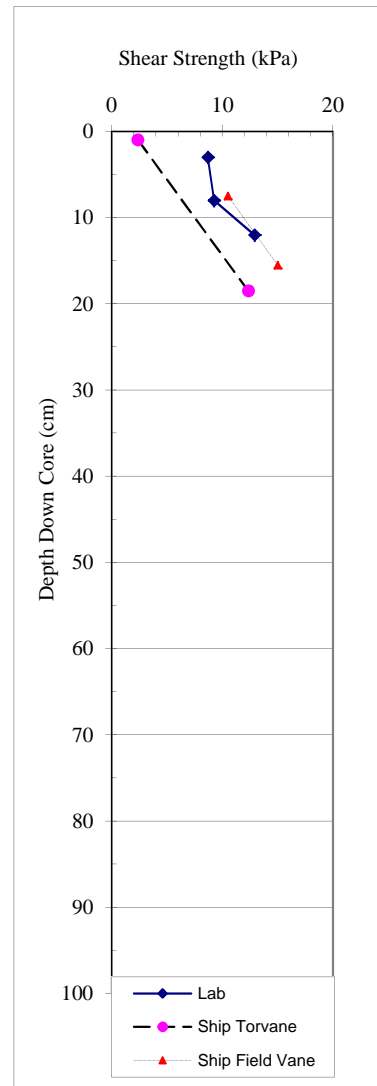
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.65	1.06	57.18	2.48	1.34	35.58	55.23
6	1.77	1.16	58.84	2.83	1.43	34.09	51.73
** 18	1.78	1.23	54.32	2.69	1.19	31.18	45.30



Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	8.68158	0.80	10.86
8	9.25274	4.34	2.13
12	12.90814		



Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Torvane

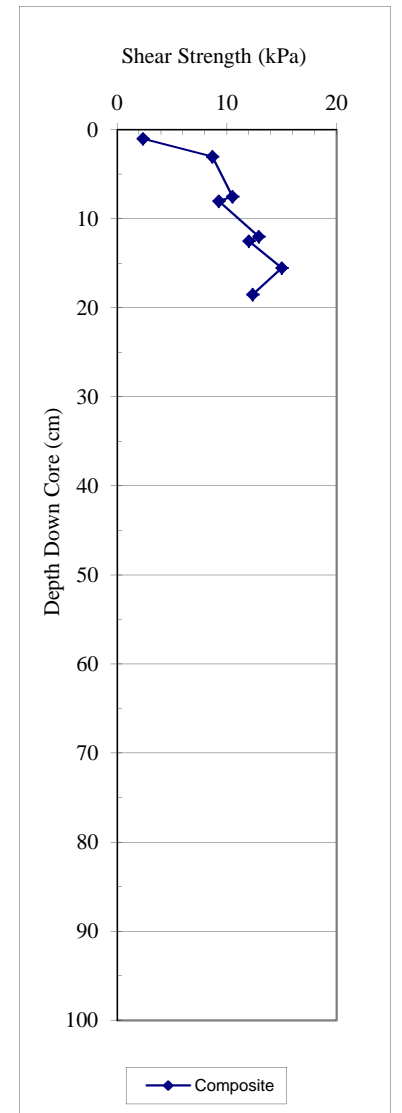
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
1.0	2.35
18.5	12.36

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	10.50
15.5	15.00
12.5	12.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	2.35	
3	8.68	0.80
7.5	10.50	
8	9.25	4.34
12	12.91	
12.5	12.00	
15.5	15.00	
18.5	12.36	



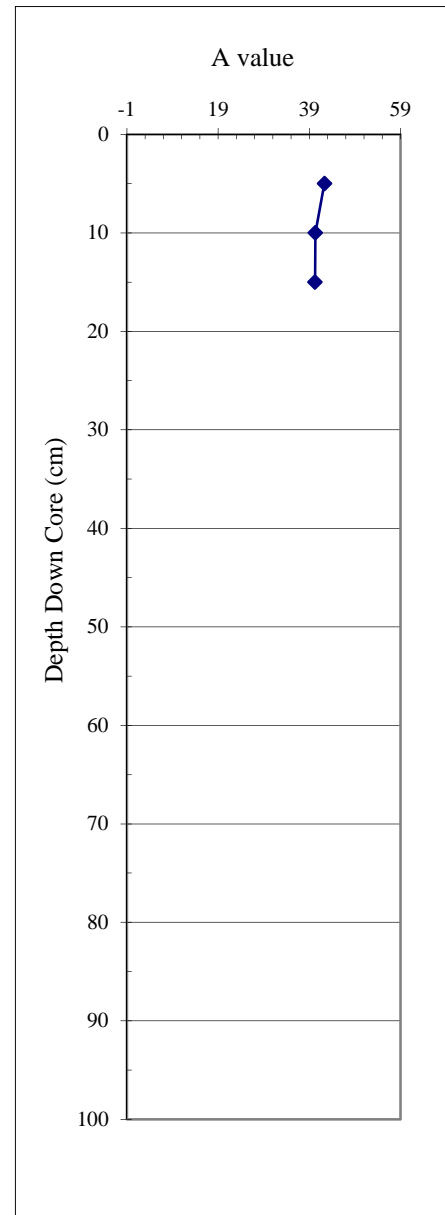
Cruise No: 2007802

Station: 11

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	42.32	1.01	4.07	4.1 Y 4.1/.6
10	40.32	1.02	4.32	4.4 Y 3.9/.6
15	40.26	0.93	4.07	4.5 Y 3.9/.6



0.61

2.98

Cruise No: 2007802

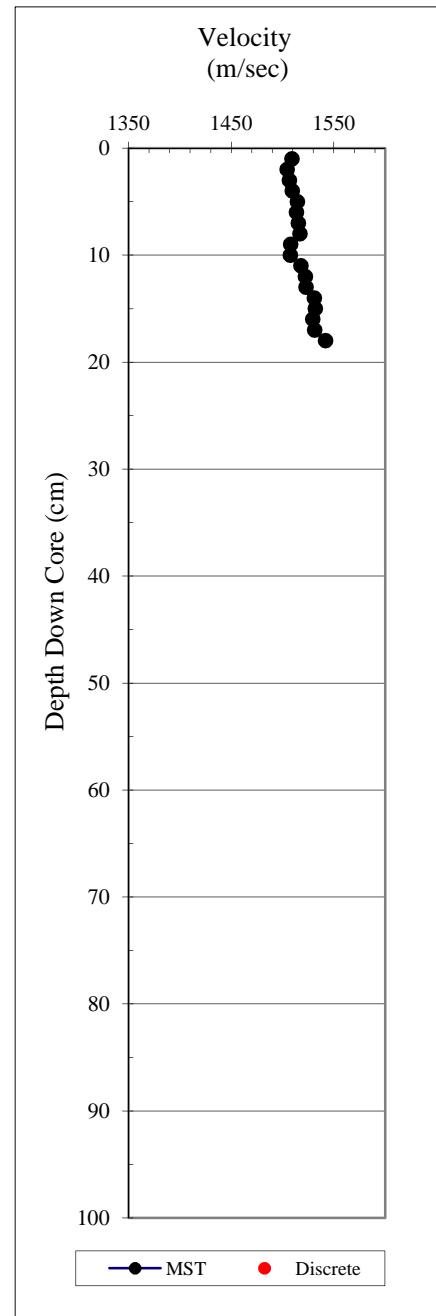
Station: 11

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

1	1509.02
2	1504.65
3	1506.83
4	1509.54
5	1514.46
6	1513.45
7	1515.40
8	1517.00
9	1507.82
10	1507.67
11	1517.84
12	1522.26
13	1522.80
14	1531.11
15	1532.02
16	1529.29
17	1531.18
18	1541.80



Cruise No: 2007802

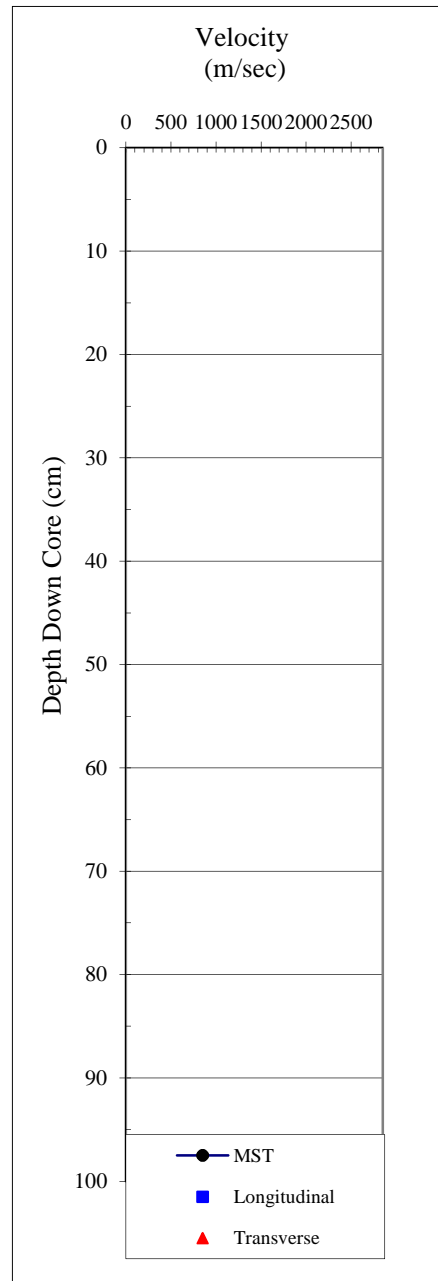
Station: 11

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
---------------	---------------------------------	---	---

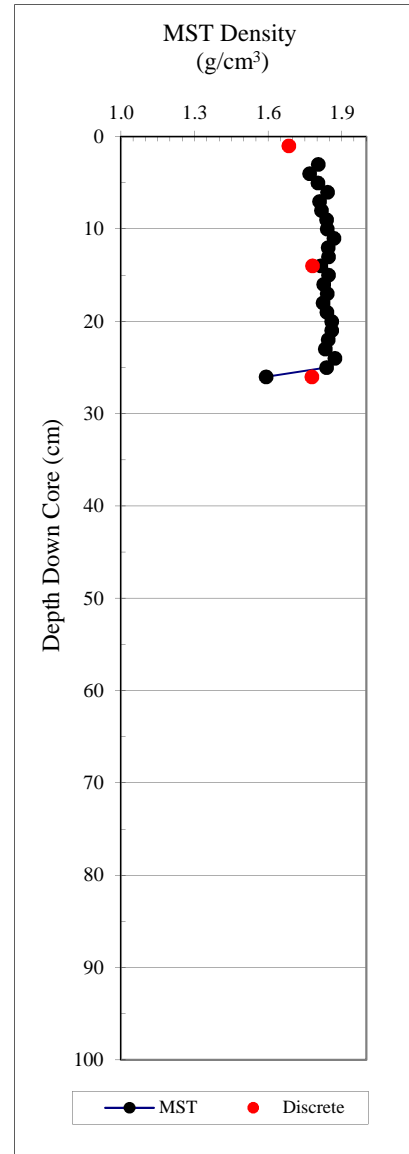
not done



Cruise No: 2007802
 Station: I2
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: I2
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.772		
3	1.804		
4	1.769		
5	1.803		
6	1.841		
7	1.808		
8	1.816		
9	1.838		
10	1.840		
11	1.868		
12	1.844		
13	1.846		
14	1.815		
15	1.845		
16	1.826		
17	1.840		
18	1.824		
19	1.839		
20	1.859		
21	1.858		
22	1.844		
23	1.832		
24	1.871		
25	1.837		
26	1.591		
average	1.821		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.68	1.08	58.96	2.63	1.44	35.85	55.88
14	1.78	1.19	58.08	2.83	1.39	33.42	50.19
** 26.0	1.78	1.22	54.50	2.68	1.20	31.39	45.75

Cruise No: 2007802

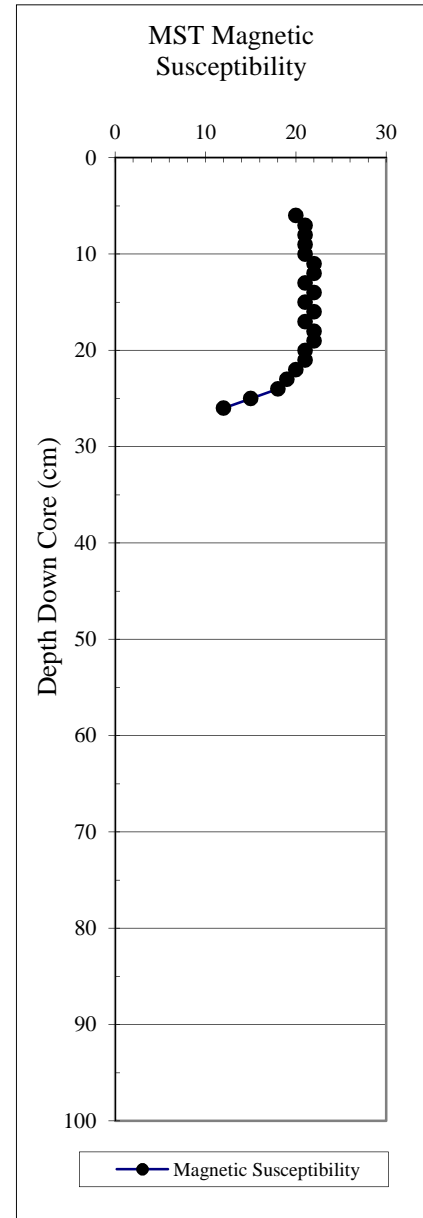
Station: 12

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	11.00
2	14.00
3	17.00
4	18.00
5	19.00
6	20.00
7	21.00
8	21.00
9	21.00
10	21.00
11	22.00
12	22.00
13	21.00
14	22.00
15	21.00
16	22.00
17	21.00
18	22.00
19	22.00
20	21.00
21	21.00
22	20.00
23	19.00
24	18.00
25	15.00
26	12.00



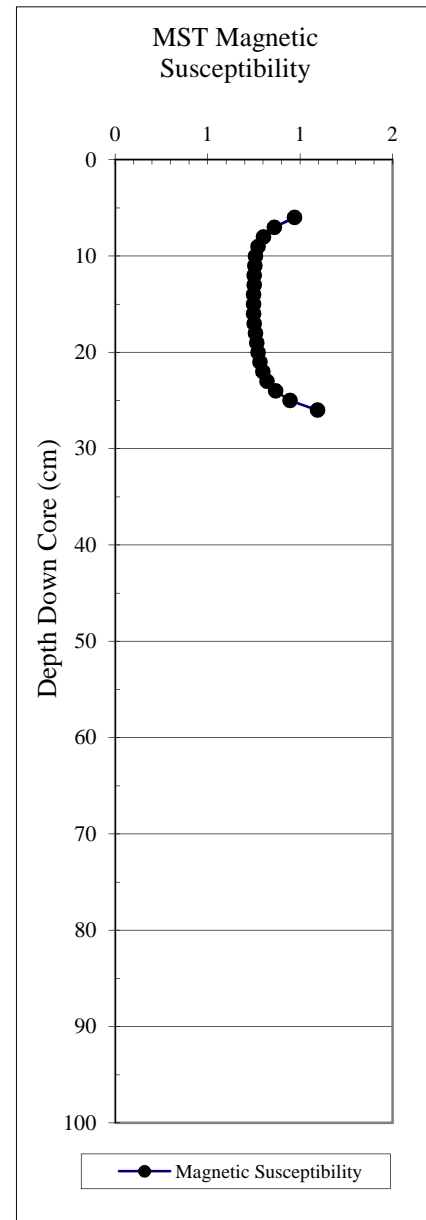
Cruise No: 2007802

Station: 12

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.161
2	1.855
3	1.650
4	1.395
5	1.156
6	0.969
7	0.862
8	0.803
9	0.772
10	0.758
11	0.755
12	0.753
13	0.753
14	0.749
15	0.749
16	0.749
17	0.753
18	0.758
19	0.766
20	0.772
21	0.783
22	0.798
23	0.822
24	0.867
25	0.946
26	1.094



Cruise No: 2007802

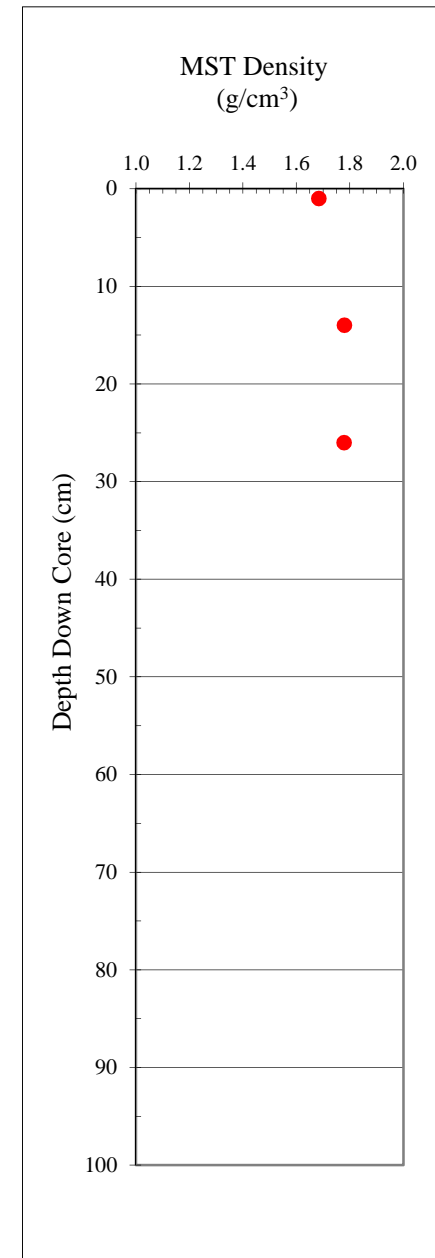
Station: 12

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

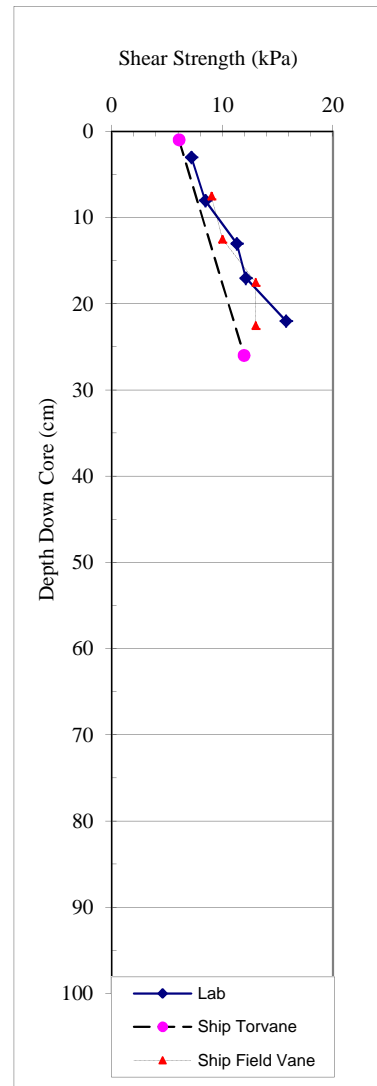
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.68	1.08	58.96	2.63	1.44	35.85	55.88
14	1.78	1.19	58.08	2.83	1.39	33.42	50.19
** 26.0	1.78	1.22	54.50	2.68	1.20	31.39	45.75
averages:	1.75	1.16	57.18	2.71	1.34	33.55	50.61



Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	7.20	2.86	2.52
8	8.45		
13	11.31	4.23	2.68
17	12.11		
22	15.76	1.37	11.50



Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Shipboard Torvane

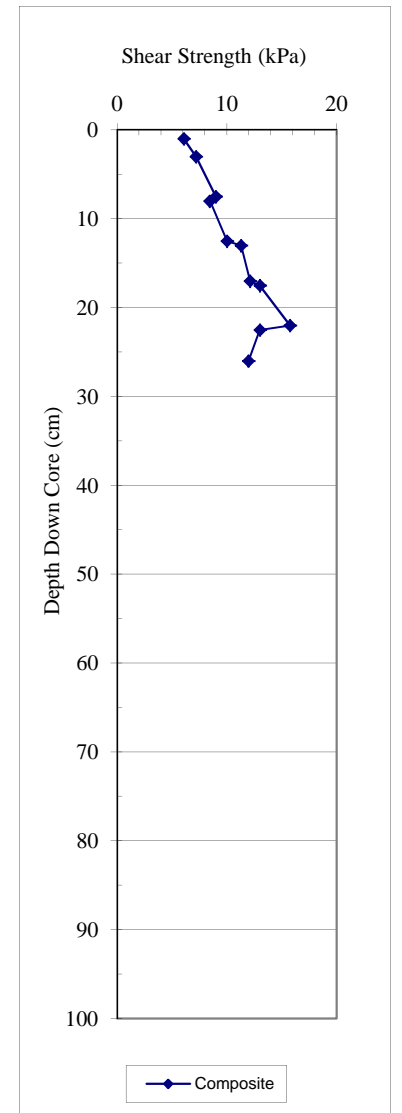
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	6.08
26	11.96

Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	9.00
12.5	10.00
17.5	13.00
22.5	13.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	6.08	
3	7.20	2.86
7.5	9.00	
8	8.45	
12.5	10.00	
13	11.31	4.23
17	12.11	
17.5	13.00	
22	15.76	1.37
22.5	13.00	
26	11.96	



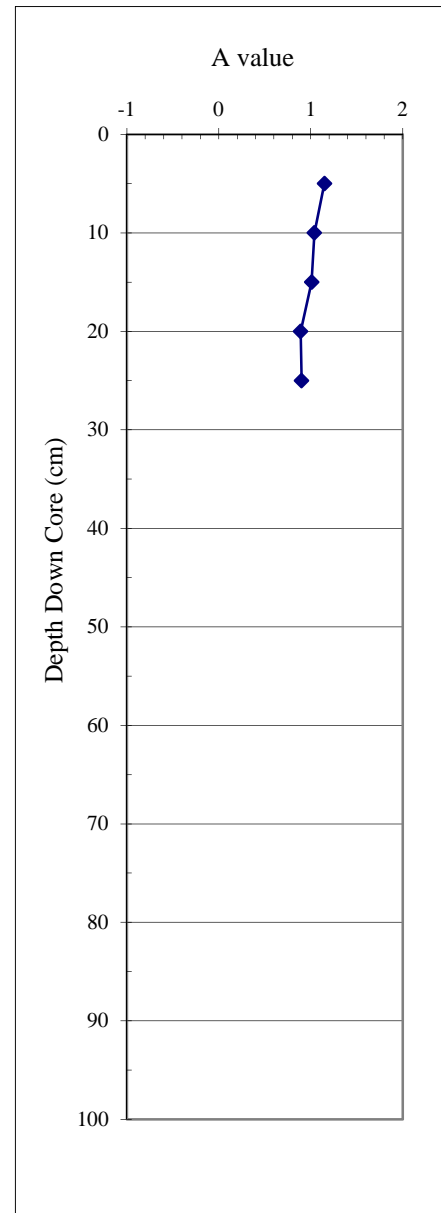
Cruise No: 2007802

Station: 12

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	Munsell
5	1.15	4.79	40.38	4.3 Y 3.9/.7
10	1.04	4.42	40.22	4.5 Y 3.9/.6
15	1.01	4.14	41.02	4.3 Y 4.0/.6
20	0.89	3.93	41.41	4.6 Y 4.0/.5
25	0.9	3.75	41.32	4.3 Y 4.0/.5



Cruise No: 2007802

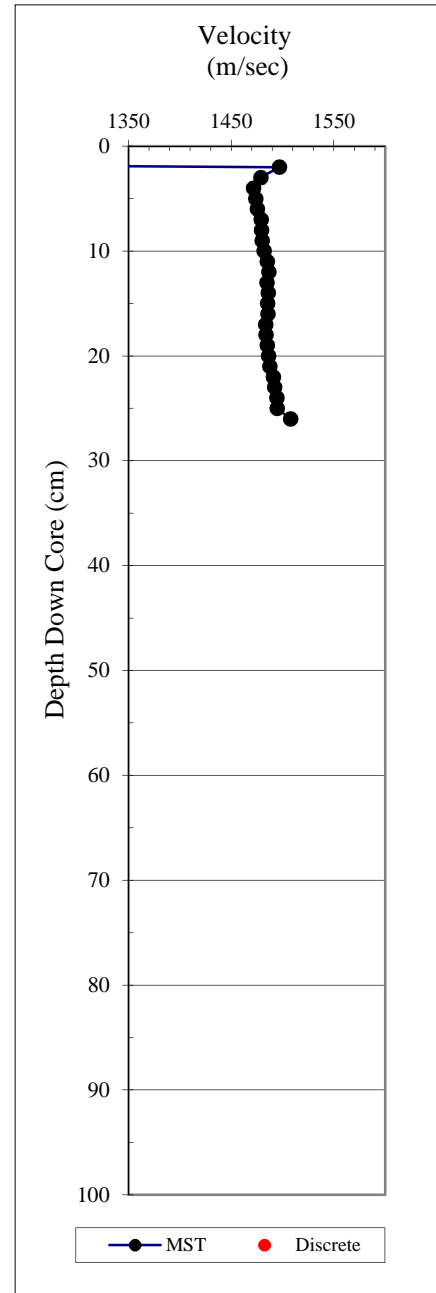
Station: 12

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

1	0.00
2	1497.04
3	1478.92
4	1471.70
5	1474.05
6	1475.51
7	1479.13
8	1479.58
9	1480.18
10	1482.19
11	1485.03
12	1486.60
13	1484.81
14	1486.23
15	1485.41
16	1485.71
17	1483.63
18	1483.93
19	1485.05
20	1486.32
21	1487.74
22	1491.10
23	1492.23
24	1494.41
25	1494.75
26	1507.91



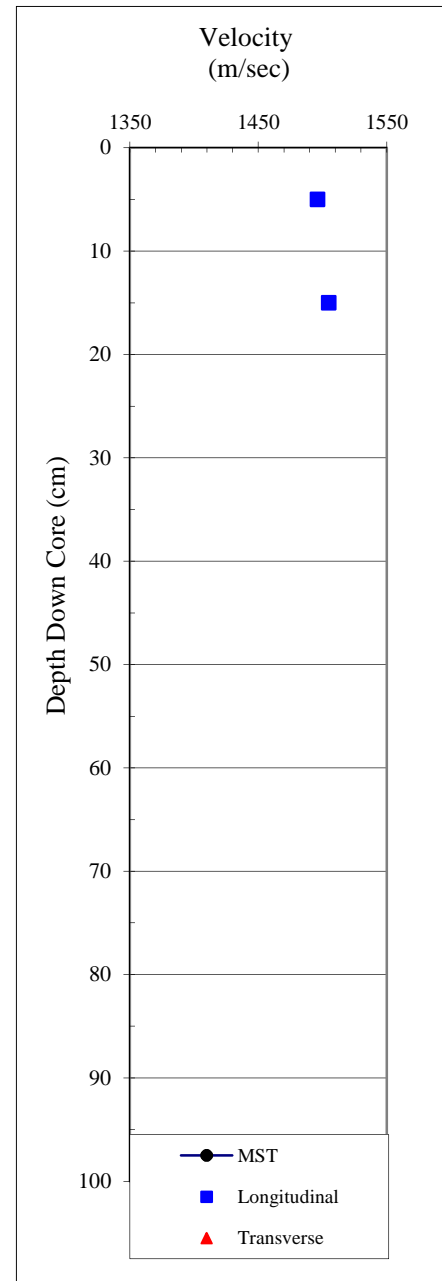
Cruise No: 2007802

Station: 12

Sample Type: **Push Core**

Data Type: Laboratory Discrete

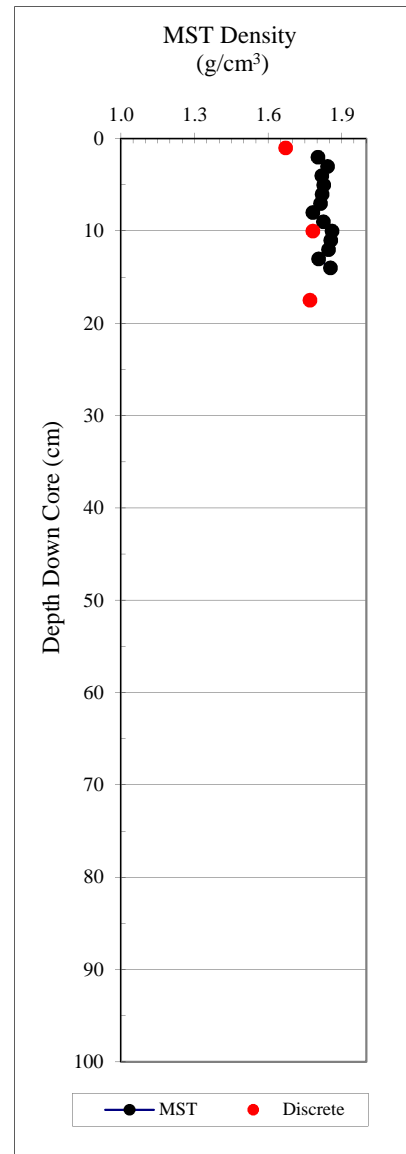
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
5		1496.08	
15		1504.89	



Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1	0.000		
2	1.803		
3	1.842		
4	1.818		
5	1.826		
6	1.819		
7	1.814		
8	1.781		
9	1.825		
10	1.860		
11	1.855		
12	1.846		
13	1.806		
14	1.853		
15			
16			
17			
17.5			



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.67	1.12	54.08	2.43	1.18	33.15	49.58
10	1.78	1.19	57.42	2.80	1.35	33.01	49.28
** 17.5	1.77	1.24	51.98	2.58	1.08	30.08	43.02

average 1.696

Cruise No: 2007802

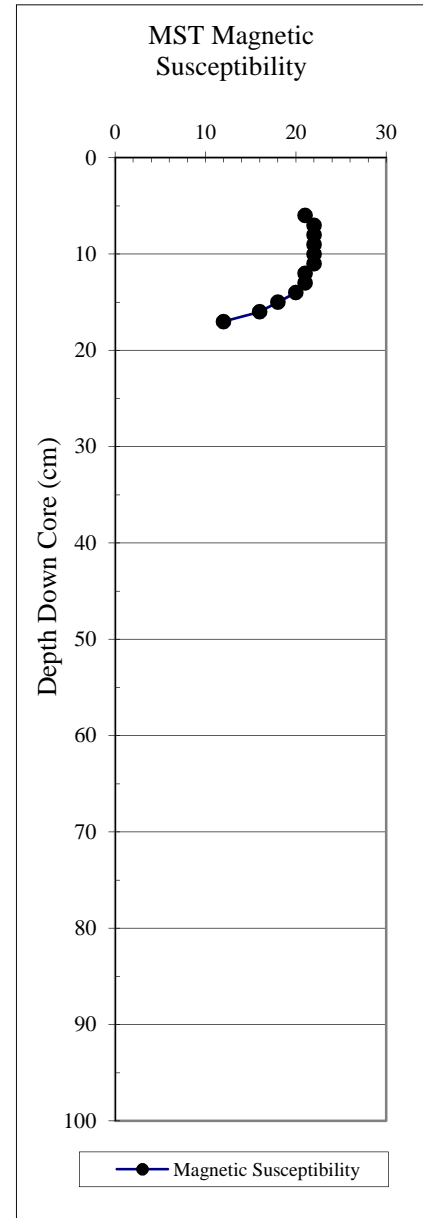
Station: L3

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	11.00
2	15.00
3	17.00
4	20.00
5	20.00
6	21.00
7	22.00
8	22.00
9	22.00
10	22.00
11	22.00
12	21.00
13	21.00
14	20.00
15	18.00
16	16.00
17	12.00



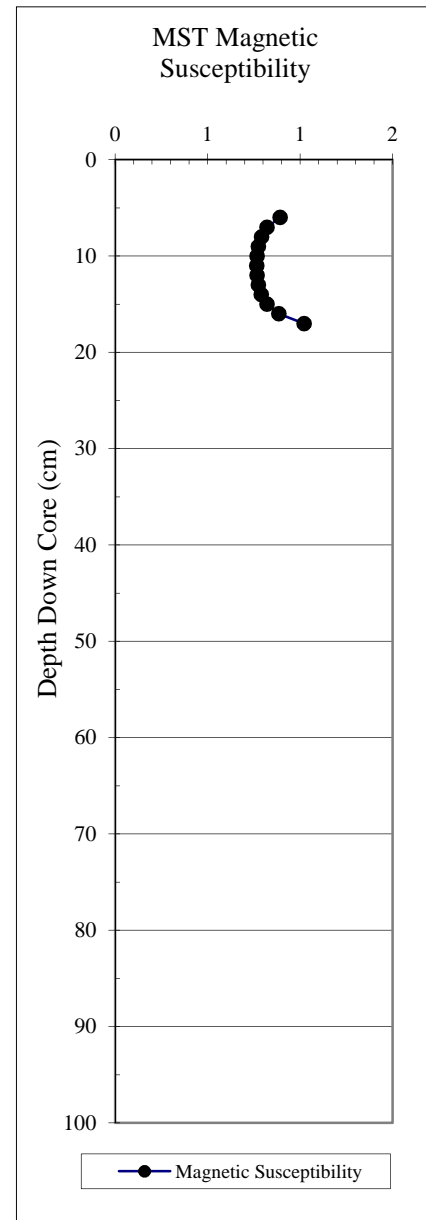
Cruise No: 2007802

Station: 13

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.610
2	2.412
3	1.883
4	1.361
5	1.051
6	0.891
7	0.822
8	0.792
9	0.774
10	0.768
11	0.766
12	0.768
13	0.774
14	0.789
15	0.822
16	0.885
17	1.021



Cruise No: 2007802

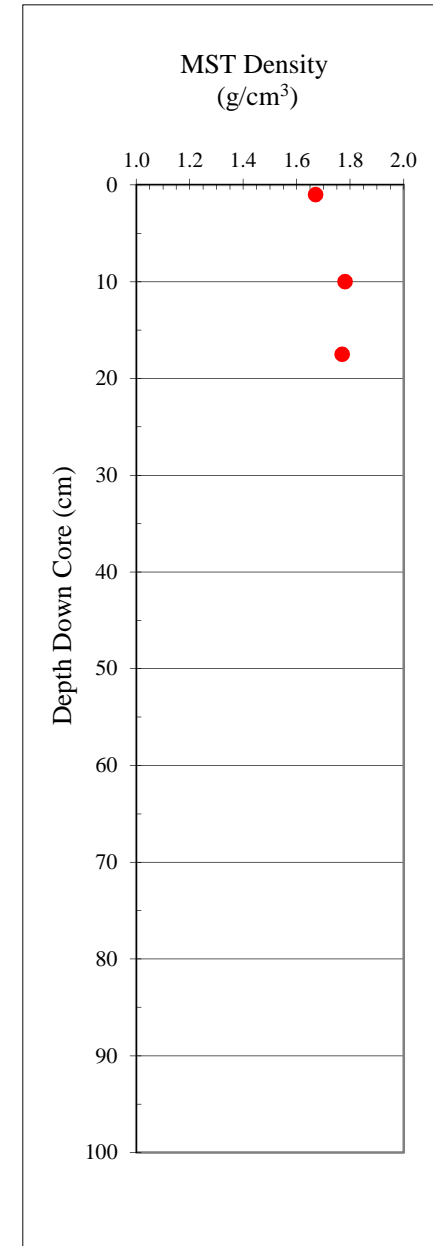
Station: L3

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.67	1.12	54.08	2.43	1.18	33.15	49.58
10	1.78	1.19	57.42	2.80	1.35	33.01	49.28
** 17.5	1.77	1.24	51.98	2.58	1.08	30.08	43.02



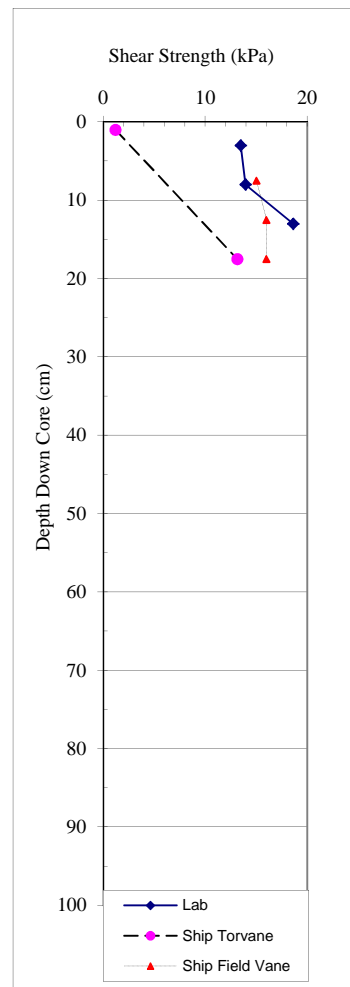
Cruise No: 2007802

Station: 13

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	13.48	3.43	3.93
8	13.94		
13	18.62	6.51	2.86



Cruise No: 2007802

Station: 13

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	1.18
17.5	13.14

Cruise No: 2007802

Station: 13

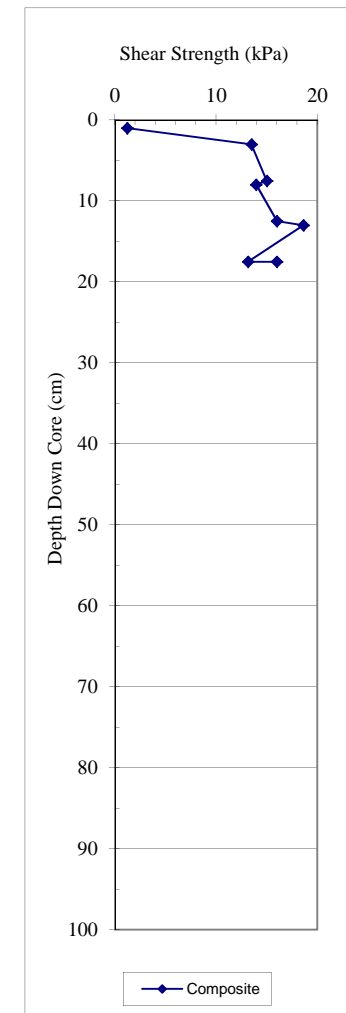
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	15.00
12.5	16.00
17.5	16.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	1.18	
3.0	13.48	3.43
7.5	15.00	
8.0	13.94	
12.5	16.00	
13.0	18.62	6.51
17.5	13.14	
17.5	16.00	



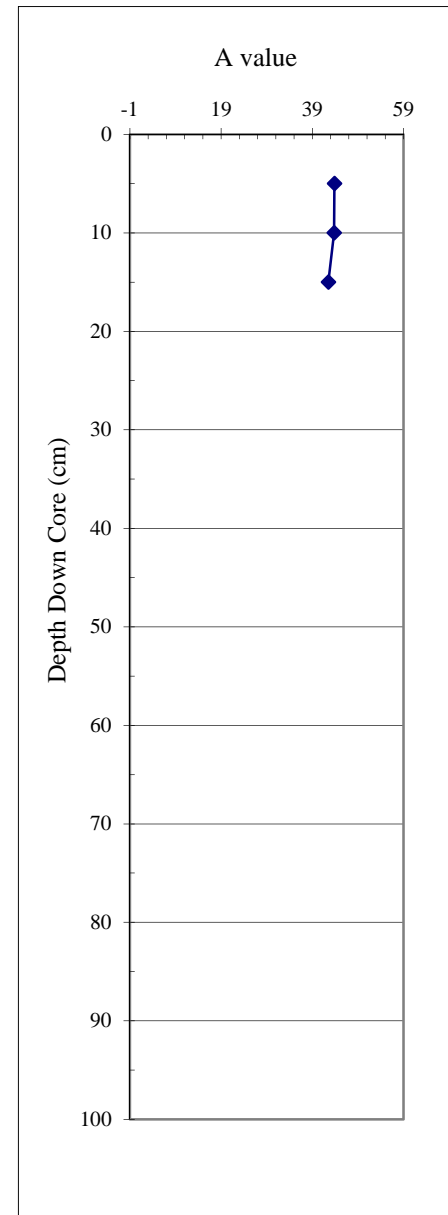
Cruise No: 2007802

Station: L3

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	43.85	0.65	3.08	4.5 Y 4.2/4
10	43.79	0.64	3.01	4.5 Y 4.2/4
15	42.51	0.91	3.71	4.2 Y 4.1/5



0.61

2.98

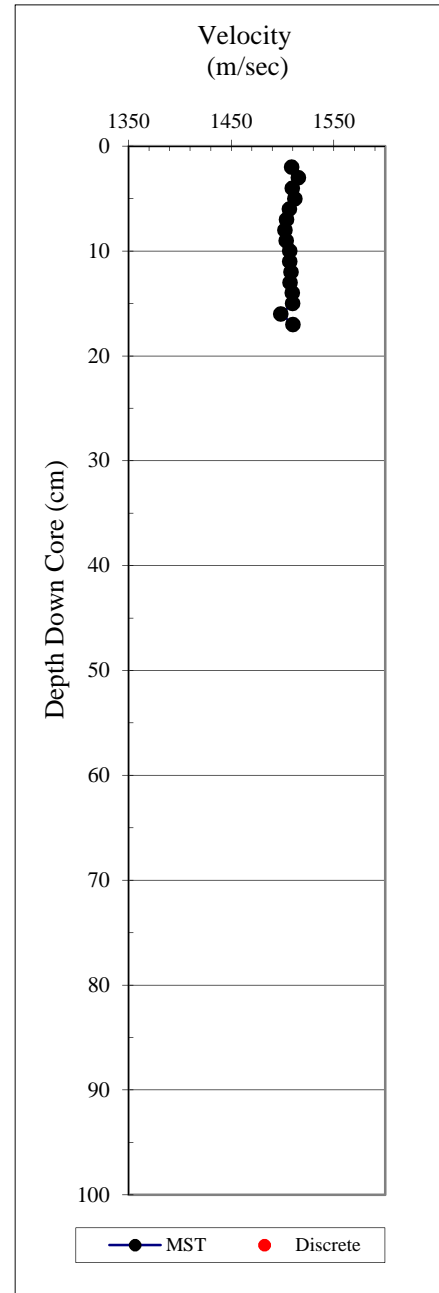
Cruise No: 2007802

Station: L3

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1509.01
3	1515.36
4	1509.49
5	1512.03
6	1506.68
7	1503.82
8	1502.40
9	1503.52
10	1506.91
11	1507.06
12	1508.19
13	1507.36
14	1509.62
15	1509.93
16	1498.29
17	1510.10



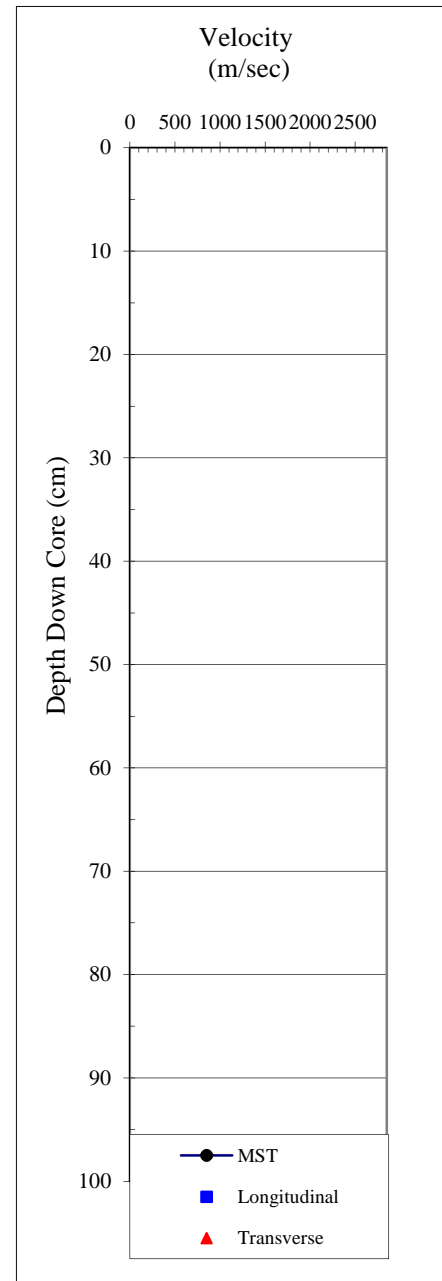
Cruise No: 2007802

Station: 13

Sample Type: **Push Core**

Data Type: Laboratory Discrete

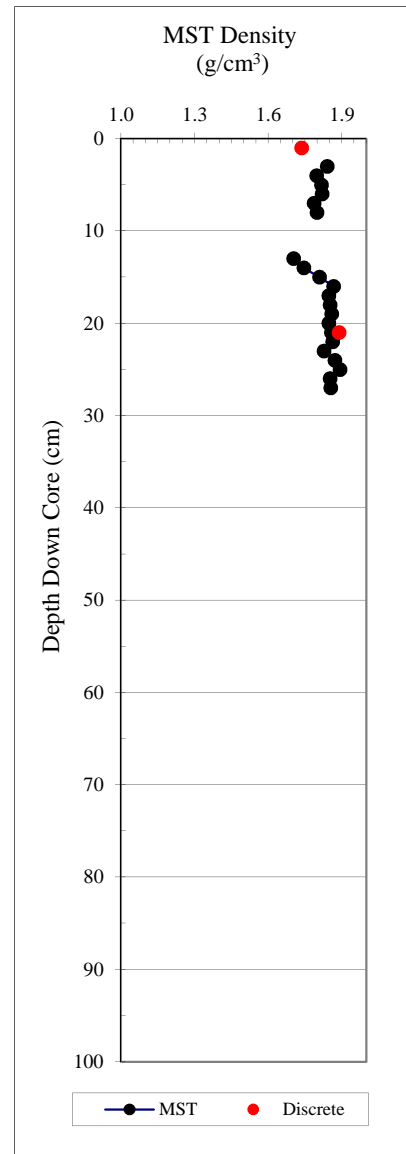
Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
8	1504.9	



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.825		
3	1.840		
4	1.797		
5	1.817		
6	1.820		
7	1.787		
8	1.799		
9			
10			
11			
12			
13	1.704		
14	1.745		
15	1.809		
16	1.867		
17	1.847		
18	1.852		
19	1.859		
20	1.847		
21	1.857		
22	1.862		
23	1.827		
24	1.872		
25	1.892		
26	1.852		
27	1.854		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.736	1.164	55.876	2.638	1.266	32.953	49.148
21	1.889	1.307	56.780	3.025	1.314	30.783	44.473

average 1.828

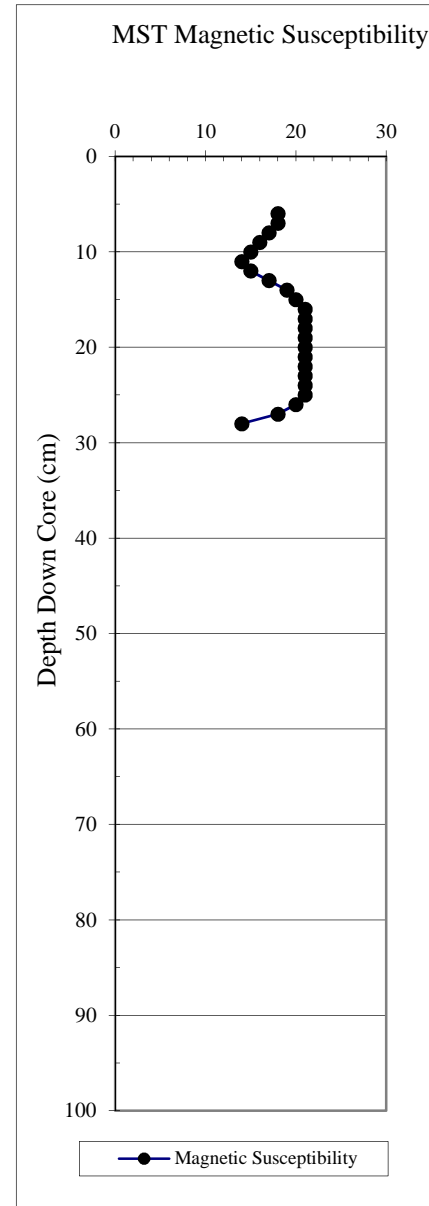
Cruise No: 2007802

Station: L5

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	11.00
2	14.00
3	15.00
4	18.00
5	18.00
6	18.00
7	18.00
8	17.00
9	16.00
10	15.00
11	14.00
12	15.00
13	17.00
14	19.00
15	20.00
16	21.00
17	21.00
18	21.00
19	21.00
20	21.00
21	21.00
22	21.00
23	21.00
24	21.00
25	21.00
26	20.00
27	18.00
28	14.00



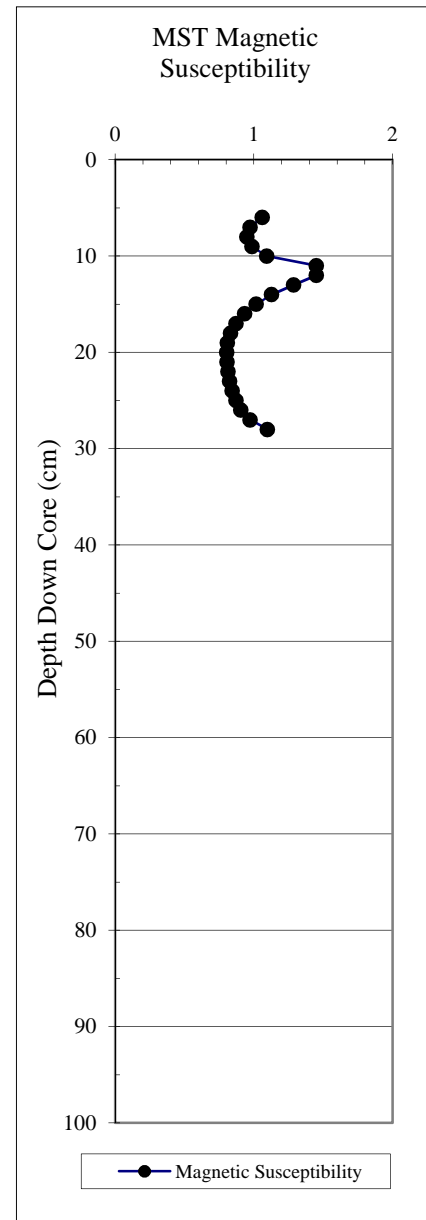
Cruise No: 2007802

Station: L5

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.123
2	1.859
3	1.654
4	1.449
5	1.226
6	1.060
7	0.974
8	0.950
9	0.986
10	1.092
11	1.449
12	1.449
13	1.286
14	1.128
15	1.016
16	0.932
17	0.872
18	0.831
19	0.809
20	0.805
21	0.807
22	0.814
23	0.826
24	0.844
25	0.872
26	0.905
27	0.974
28	1.098



Cruise No: 2007802

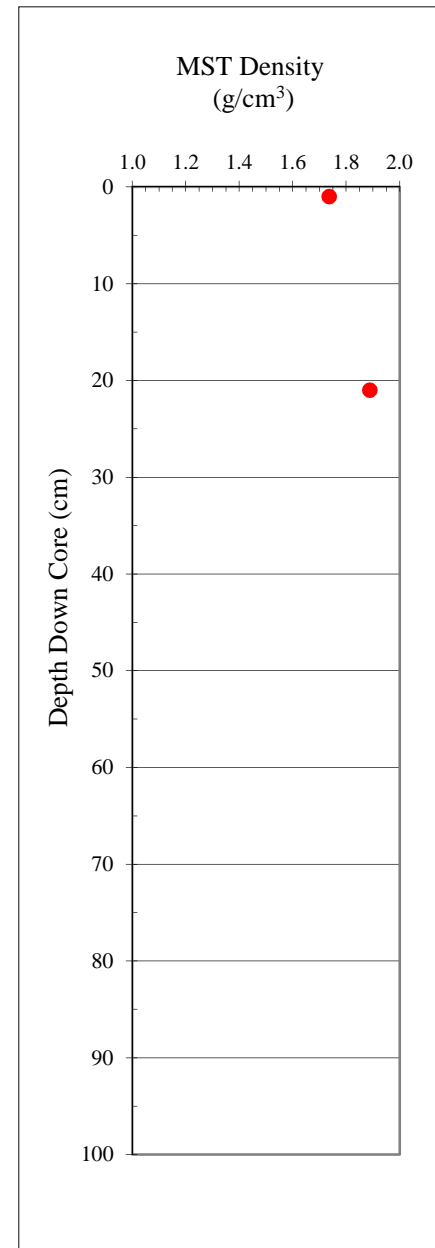
Station: L5

Sample Type: GRAVITYCore

Data Type: Discrete Laboratory Measurements

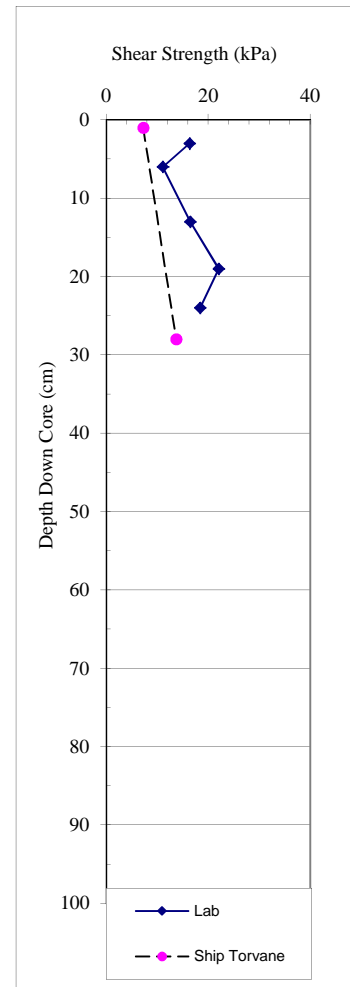
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.736	1.164	55.876	2.638	1.266	32.953	49.148
21	1.889	1.307	56.780	3.025	1.314	30.783	44.473



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	16.34	3.20	5.11
6	11.08		
13	16.45	4.80	3.43
19	22.05		
24	18.39	9.02	2.04



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Shipboard Torvane

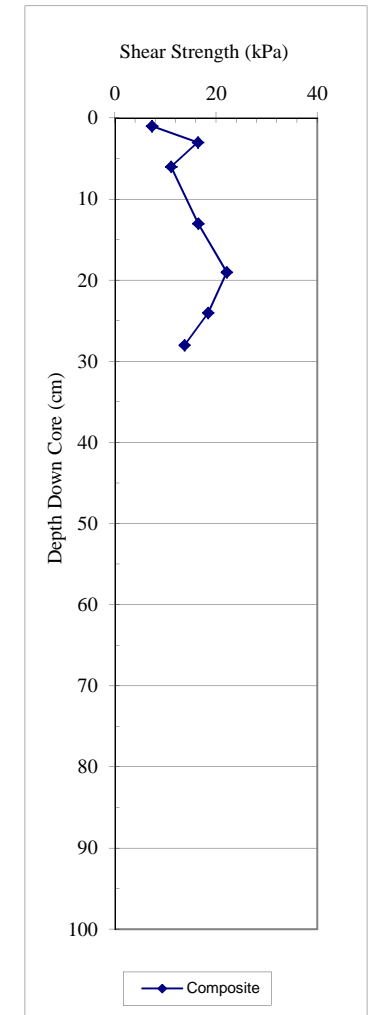
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	7.26
28	13.73

Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	7.26	
3	16.34	3.20
6	11.08	
13	16.45	4.80
19	22.05	
24	18.39	9.02
28	13.73	



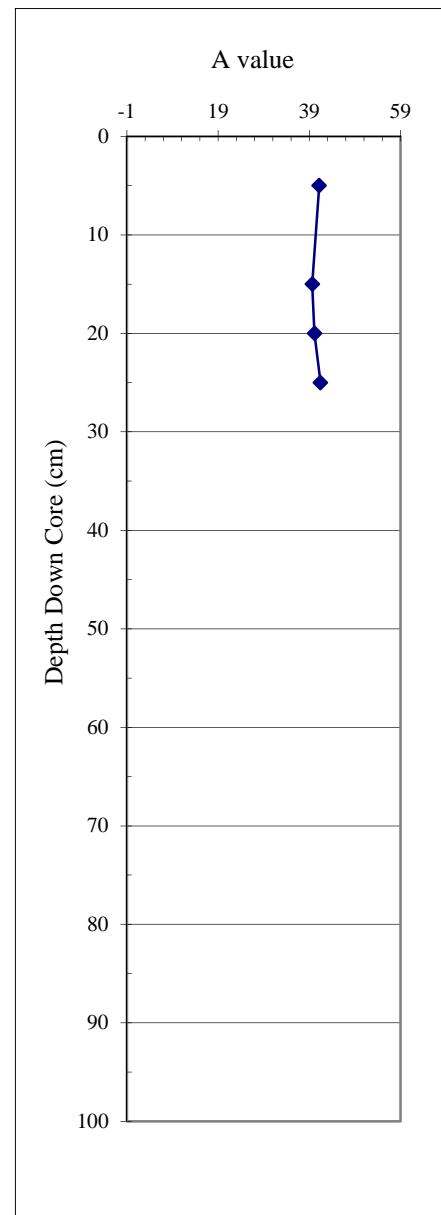
Cruise No: 2007802

Station: 15

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	41.15	0.61	3.22	5.0 Y 4.0/4
15	39.65	0.6	3.12	5.2 Y 3.8/4
20	40.14	0.34	2.6	6.3 Y 3.9/4
25	41.45	0.64	3.29	5.0 Y 4.0/4



Cruise No: 2007802

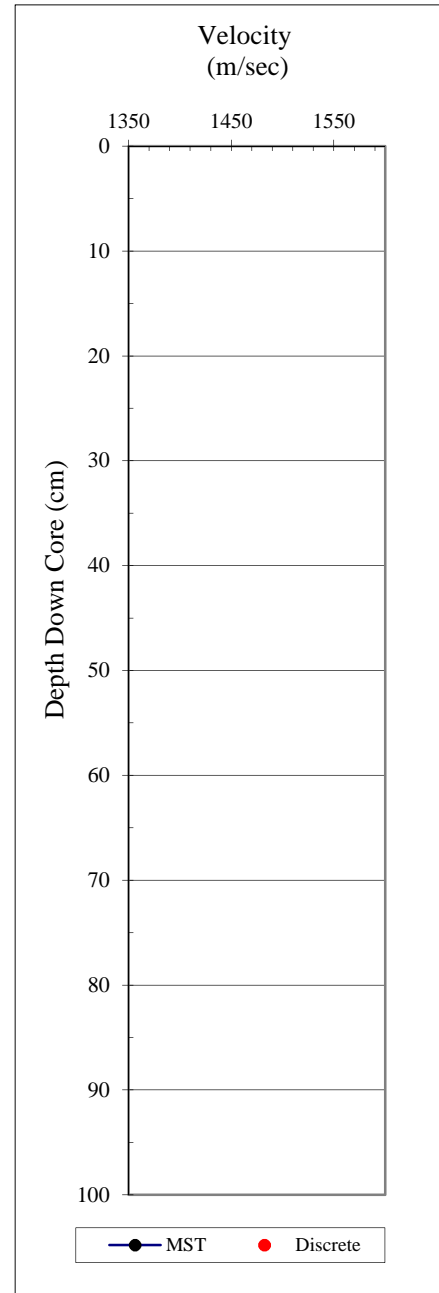
Station: L5

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

NA



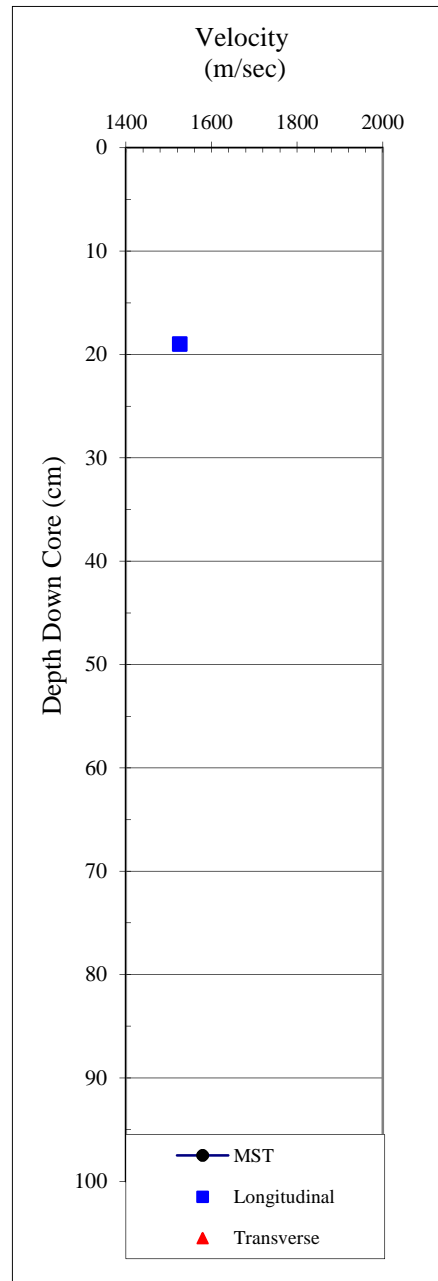
Cruise No: 2007802

Station: 15

Sample Type: **Push Core**

Data Type: Laboratory Discrete

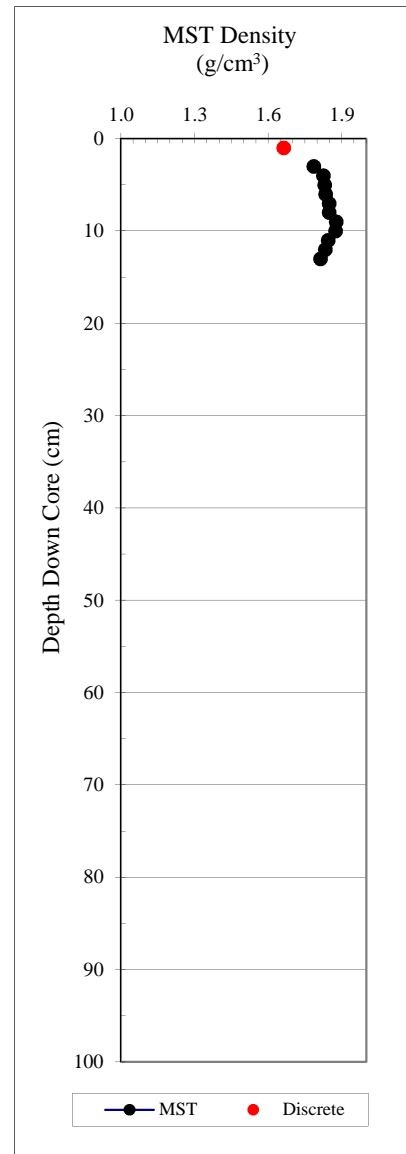
Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
19	1525.87	



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.787		
3	1.785		
4	1.825		
5	1.829		
6	1.834		
7	1.848		
8	1.848		
9	1.876		
10	1.874		
11	1.844		
12	1.833		
13	1.813		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.663	1.082	56.761	2.502	1.313	34.952	53.733

average 1.833

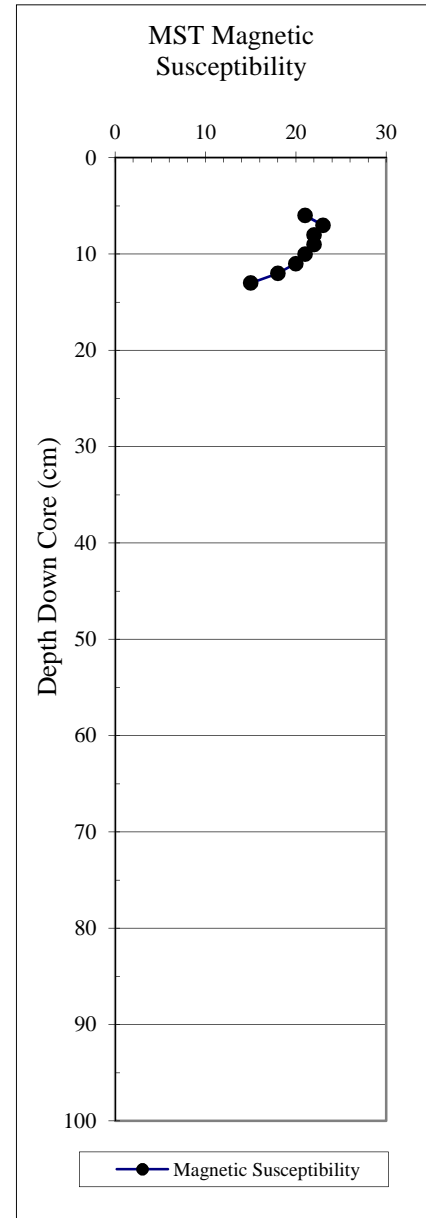
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	14.00
3	17.00
4	19.00
5	20.00
6	21.00
7	23.00
8	22.00
9	22.00
10	21.00
11	20.00
12	18.00
13	15.00



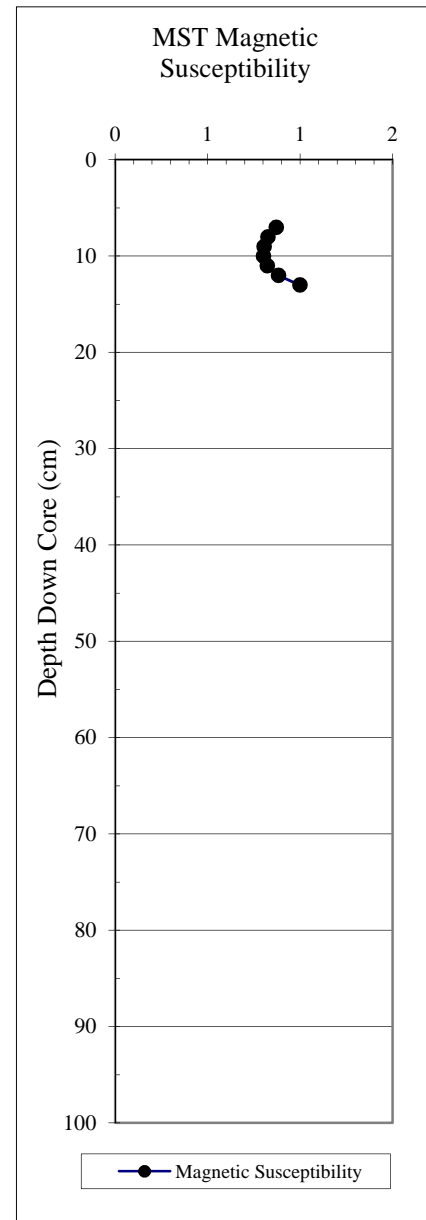
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
2	2.255
3	1.916
4	1.462
5	1.141
6	0.962
7	0.872
8	0.826
9	0.805
10	0.802
11	0.824
12	0.883
13	0.999



Cruise No: 2007802

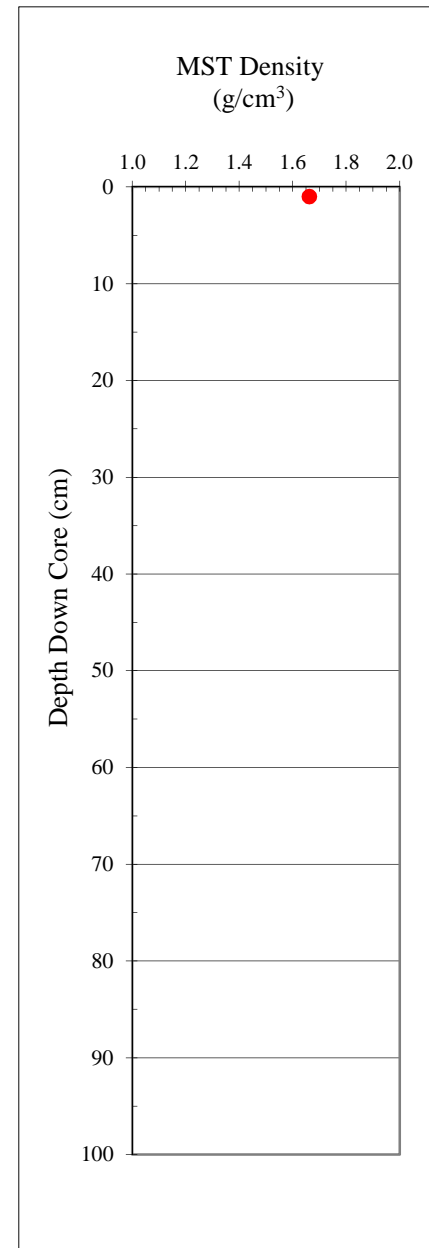
Station: 16

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

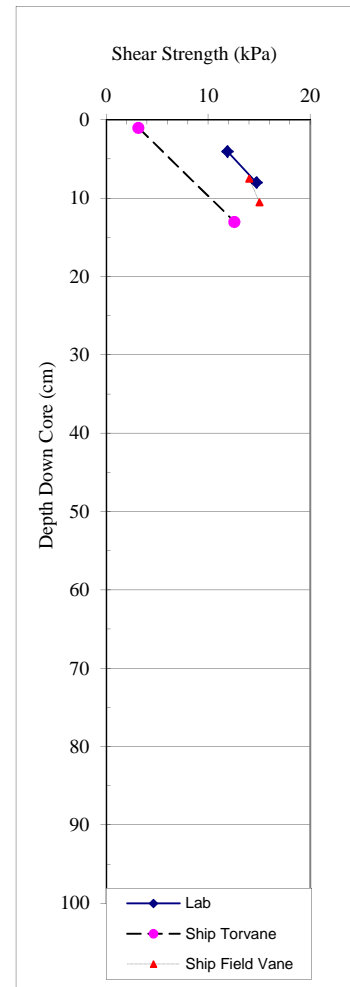
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.663	1.082	56.761	2.502	1.313	34.952	53.733



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	11.88	4.57	2.60
8	14.74		



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Torvane

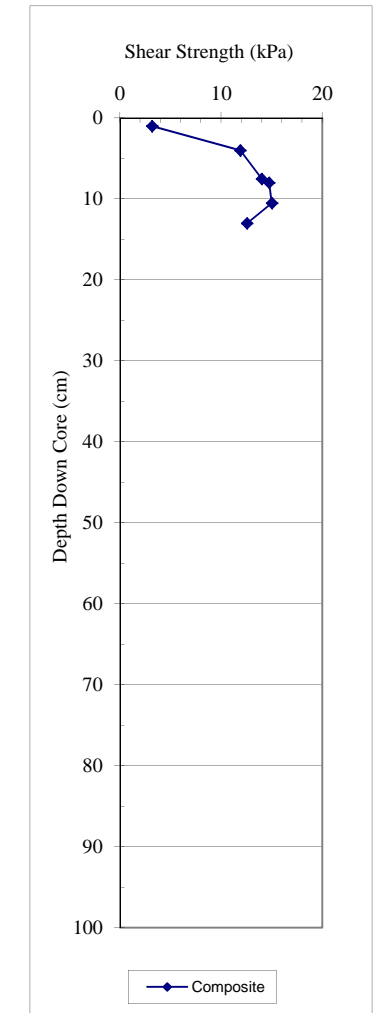
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	3.14
13	12.55

Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	14.00
10.5	15.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	3.14	
4	11.88	4.57
7.5	14.00	
8	14.74	
10.5	15.00	
13	12.55	



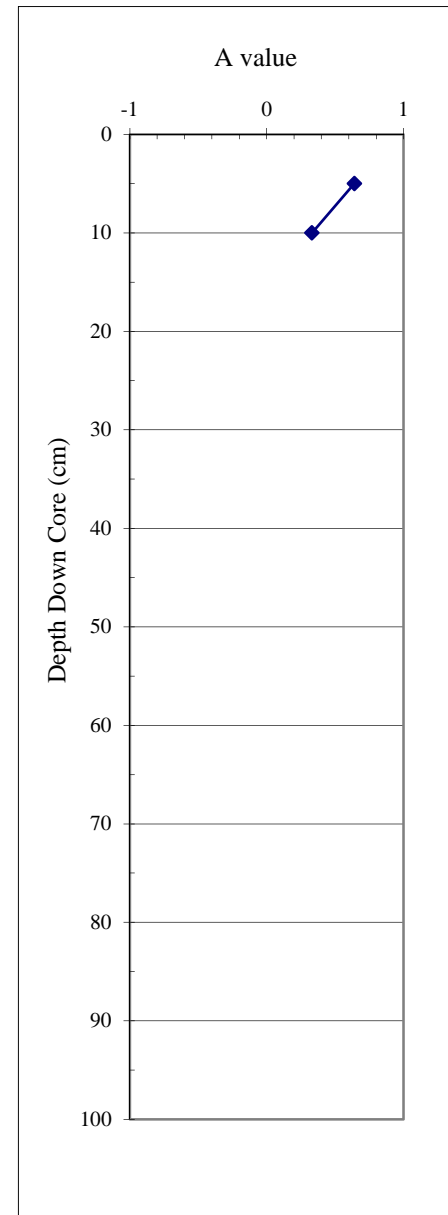
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.64	3.48	39.49	5.5 Y 3.8/5
10	0.33	2.73	38.9	7.0 Y 3.8/4



0.61

2.98

Cruise No: 2007802

Station: 16

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1510.65
4	1503.74
5	1532.75
6	1524.91
7	1530.55
8	1535.07
9	1538.44
10	1535.12
11	1534.66
12	1542.92
13	1553.16

Cruise No: 2007802

Station: 16

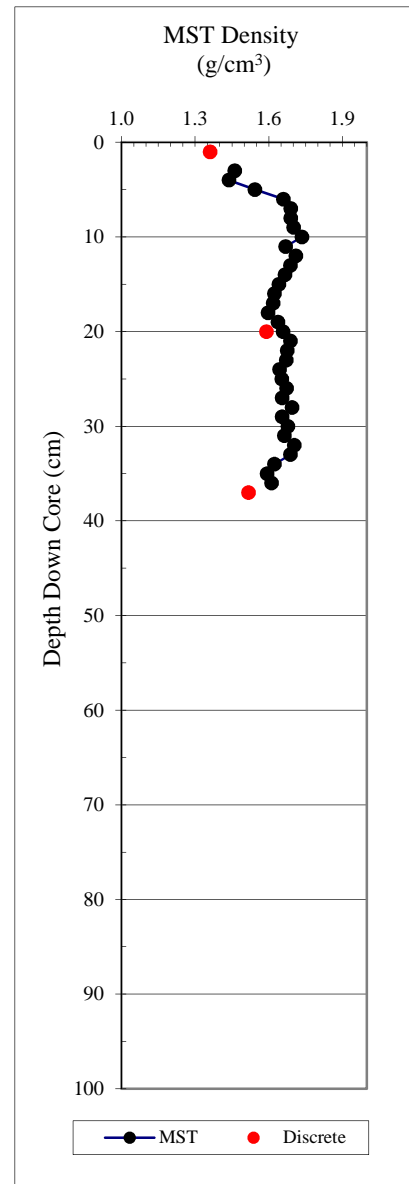
Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
7	1516.81	

Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.465
3	1.462
4	1.438
5	1.545
6	1.660
7	1.690
8	1.690
9	1.702
10	1.735
11	1.669
12	1.711
13	1.689
14	1.667
15	1.642
16	1.624
17	1.618
18	1.597
19	1.638
20	1.659
21	1.688
22	1.675
23	1.672
24	1.644
25	1.653
26	1.673
27	1.655
28	1.695
29	1.655
30	1.679
31	1.664
32	1.704
33	1.689
34	1.624
35	1.593
36	1.612



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.362	0.680	66.566	2.034	1.991	50.061	100.243
20	1.591	0.885	68.911	2.846	2.217	44.366	79.747
** 37	1.518	0.900	60.316	2.268	1.520	40.695	68.620

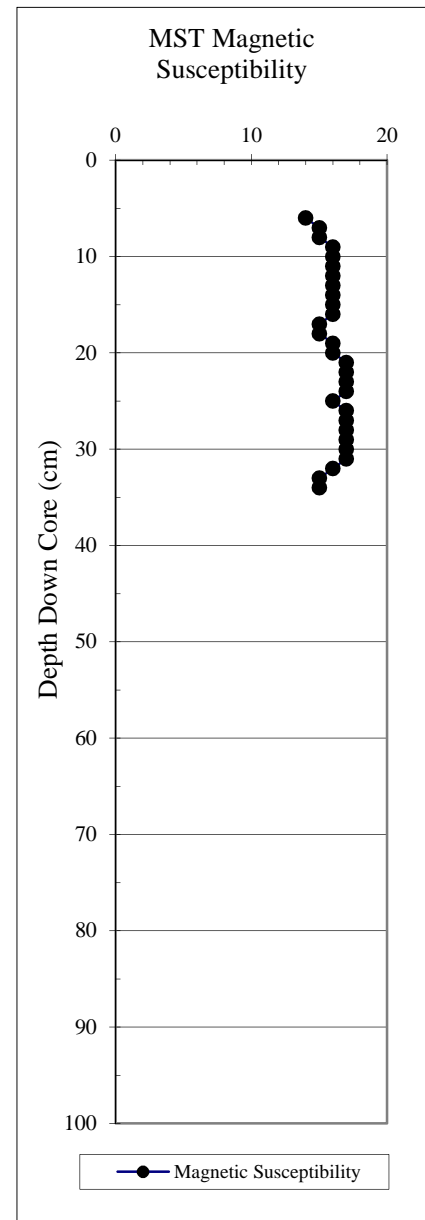
Cruise No: 2007802

Station: 17

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	6.00
2	9.00
3	11.00
4	12.00
5	13.00
6	14.00
7	15.00
8	15.00
9	16.00
10	16.00
11	16.00
12	16.00
13	16.00
14	16.00
15	16.00
16	16.00
17	15.00
18	15.00
19	16.00
20	16.00
21	17.00
22	17.00
23	17.00
24	17.00
25	16.00
26	17.00
27	17.00
28	17.00
29	17.00
30	17.00
31	17.00
32	16.00
33	15.00
34	15.00
35	13.00
36	10.00



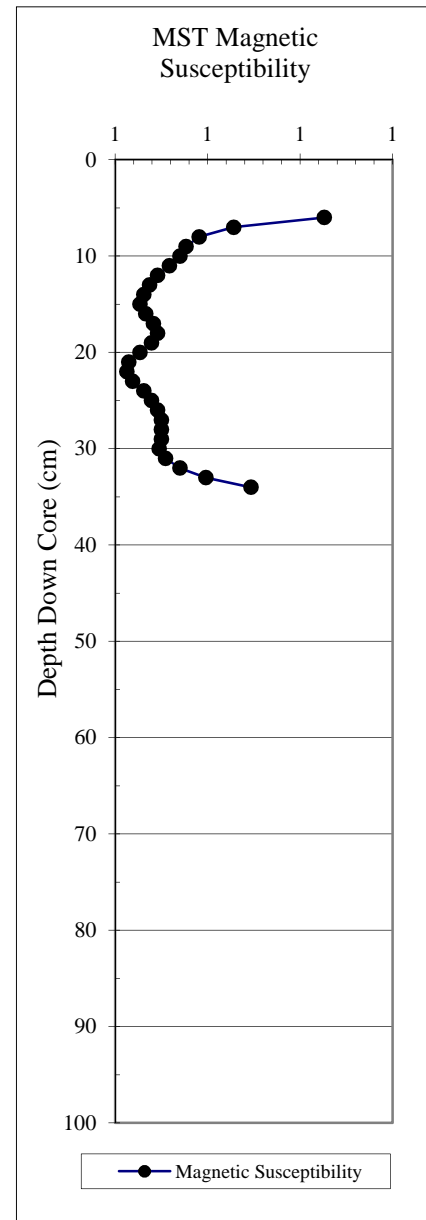
Cruise No: 2007802

Station: 17

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.978
2	1.783
3	1.399
4	1.040
5	0.821
6	0.713
7	0.664
8	0.646
9	0.638
10	0.635
11	0.629
12	0.623
13	0.619
14	0.616
15	0.613
16	0.617
17	0.621
18	0.623
19	0.620
20	0.613
21	0.607
22	0.606
23	0.609
24	0.616
25	0.620
26	0.623
27	0.625
28	0.625
29	0.625
30	0.624
31	0.627
32	0.635
33	0.649
34	0.673
35	0.720
36	0.809



Cruise No: 2007802

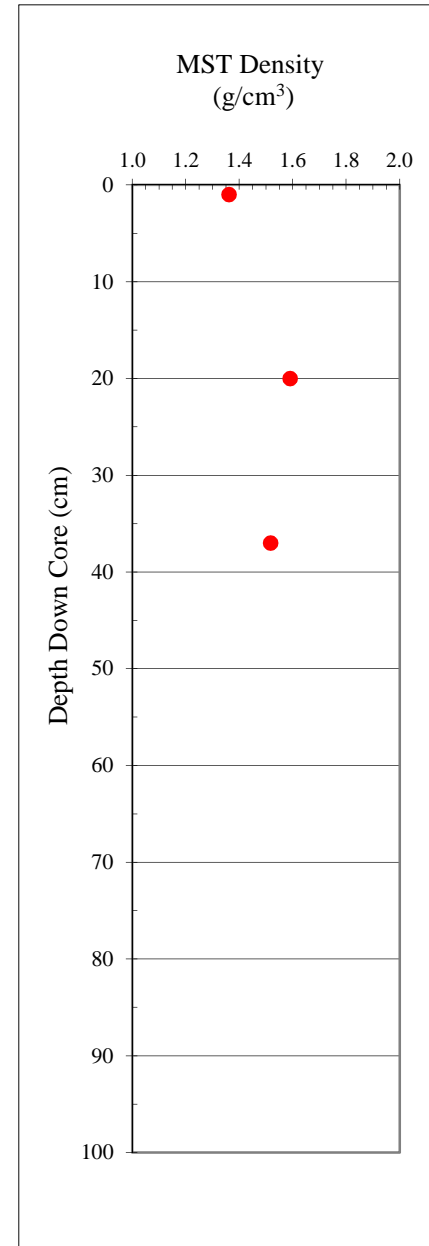
Station: 17

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

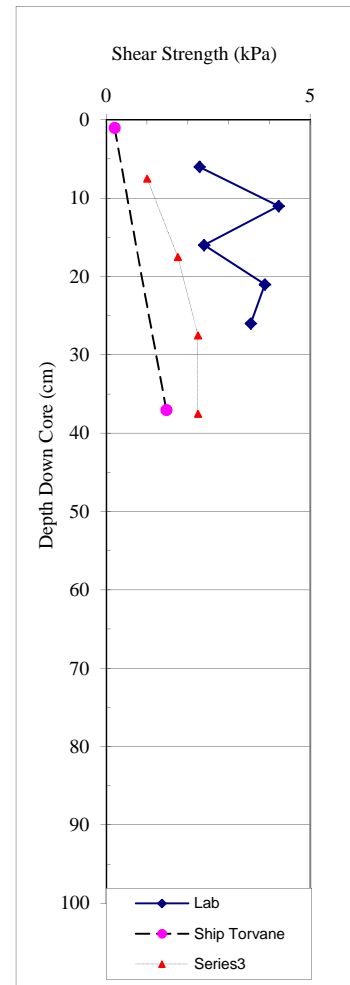
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.362	0.680	66.566	2.034	1.991	50.061	100.243
20	1.591	0.885	68.911	2.846	2.217	44.366	79.747
** 37	1.518	0.900	60.316	2.268	1.520	40.695	68.620



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
6	2.28	1.60	1.43
11	4.23		
16	2.40	2.17	1.11
21	3.88		
26	3.54	2.06	1.72
32	4.46		



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Shipboard Torvane

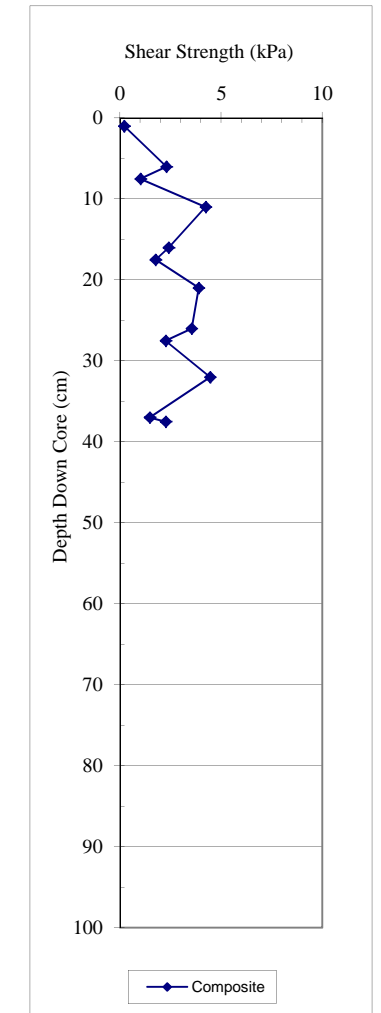
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
37	1.47

Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
17.5	1.75
27.5	2.25
37.5	2.25

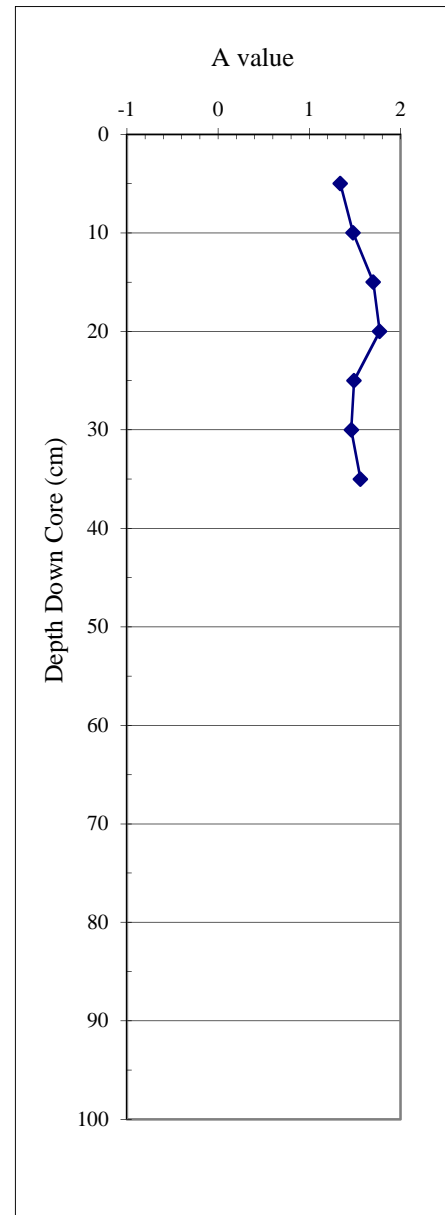
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
6	2.28	1.60
7.5	1.00	
11	4.23	
16	2.40	2.17
17.5	1.75	
21	3.88	
26	3.54	2.06
27.5	2.25	
32	4.46	
37	1.47	
37.5	2.25	



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.34	4.88	41.97	3.8 Y 4.0/.7
10	1.48	5.3	41.26	3.7 Y 4.0/.7
15	1.7	5.9	40.2	3.6 Y 3.9/.8
20	1.77	6.16	39.62	3.6 Y 3.8/.8
25	1.49	4.61	43.6	3.0 Y 4.2/.6
30	1.46	4.91	42.81	3.4 Y 4.1/.7
35	1.56	4.89	42.96	3.0 Y 4.1/.7



0.61 2.98

Cruise No: 2007802

Station: 17

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.51
3	1467.46
4	3283.75
5	1475.68
6	1466.34
7	1466.64
8	1467.48
9	1468.27
10	1468.12
11	1465.95
12	1463.79
13	1462.71
14	1460.55
15	1455.20
16	1456.27
17	1454.13
18	1456.27
19	1455.20
20	1455.20
21	1456.41
22	1458.85
23	1459.00
24	1458.22
25	1457.15
26	1458.36
27	1458.51
28	1458.51
29	1461.73
30	1466.05
31	1471.48
32	1474.76
33	1481.21
34	1480.91
35	1483.32
36	1495.02

Cruise No: 2007802

Station: 17

Sample Type: ***Push Core***

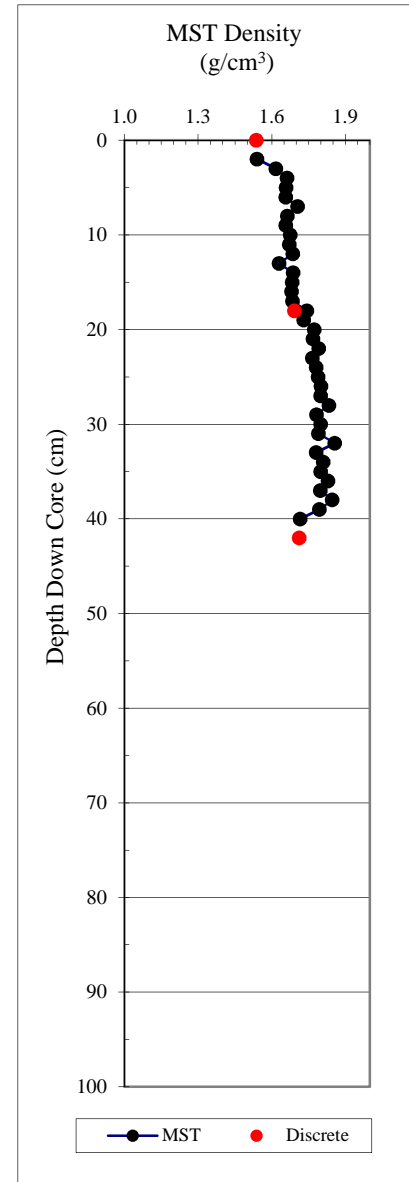
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
6	1459.05	
16	1459.05	
26	1461.84	

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.540
3	1.617
4	1.662
5	1.659
6	1.657
7	1.706
8	1.664
9	1.657
10	1.676
11	1.672
12	1.687
13	1.630
14	1.687
15	1.683
16	1.681
17	1.686
18	1.743
19	1.730
20	1.773
21	1.768
22	1.791
23	1.765
24	1.781
25	1.789
26	1.801
27	1.800
28	1.833
29	1.783
30	1.800
31	1.791
32	1.858
33	1.781
34	1.810
35	1.800
36	1.829
37	1.798
38	1.847
39	1.795
40	1.716



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.537	0.874	64.753	2.479	1.837	43.143	75.879
** 18	1.692	1.031	64.531	2.908	1.819	39.052	64.073
** 42	1.712	1.116	58.178	2.669	1.391	34.801	53.376

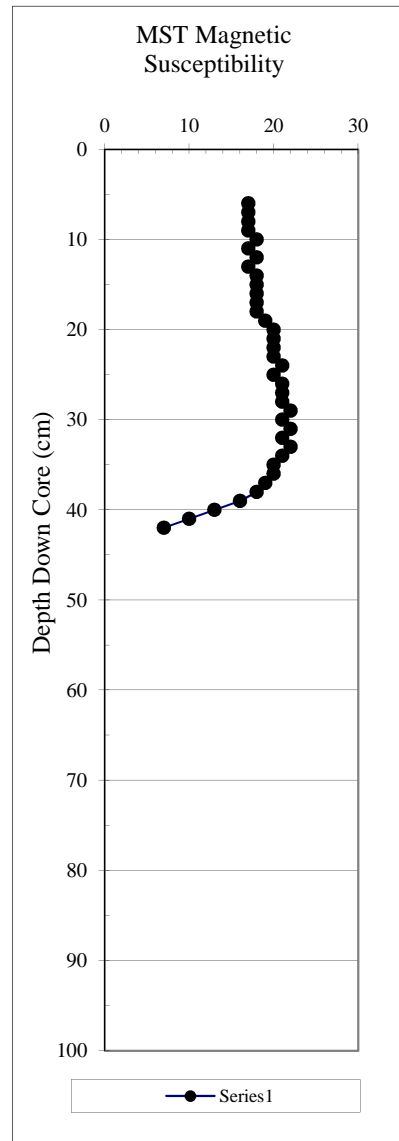
Cruise No: 2007802

Station: 18

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	8.00
2	11.00
3	13.00
4	15.00
5	15.00
6	17.00
7	17.00
8	17.00
9	17.00
10	18.00
11	17.00
12	18.00
13	17.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	19.00
20	20.00
21	20.00
22	20.00
23	20.00
24	21.00
25	20.00
26	21.00
27	21.00
28	21.00
29	22.00
30	21.00
31	22.00
32	21.00
33	22.00
34	21.00
35	20.00
36	20.00
37	19.00
38	18.00
39	16.00
40	13.00
41	10.00
42	7.00



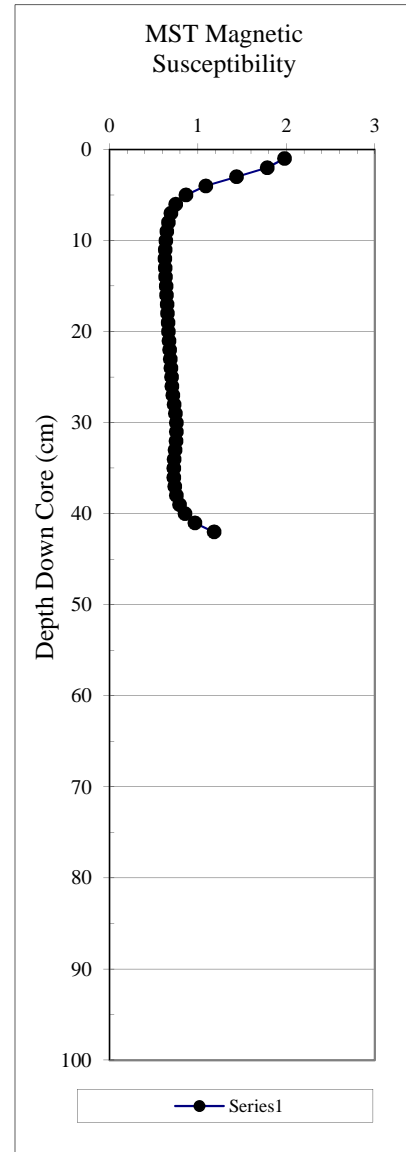
Cruise No: 2007802

Station: 18

Sample Type: Push Core

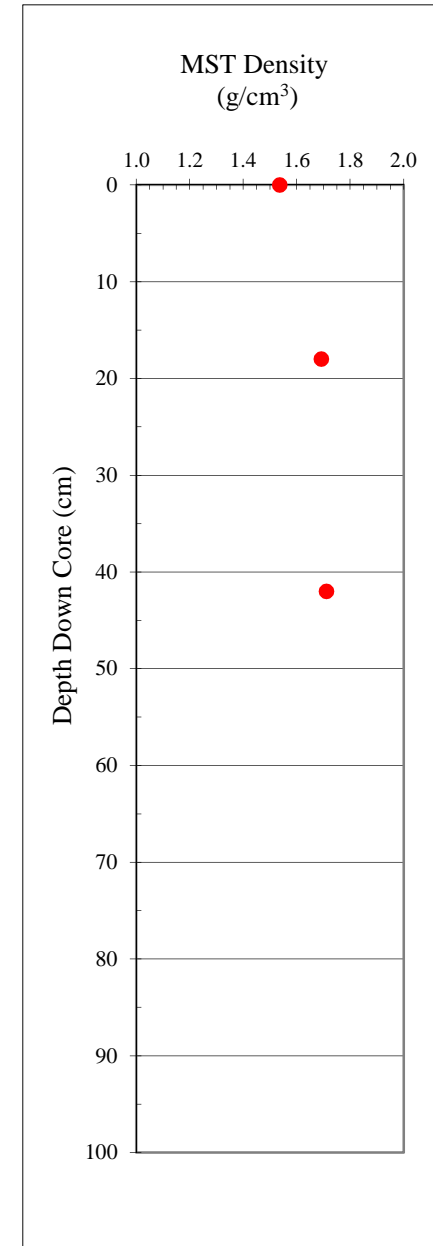
Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.978
2	1.783
3	1.436
4	1.087
5	0.866
6	0.749
7	0.693
8	0.664
9	0.647
10	0.637
11	0.629
12	0.627
13	0.629
14	0.633
15	0.640
16	0.646
17	0.650
18	0.655
19	0.660
20	0.667
21	0.673
22	0.682
23	0.689
24	0.695
25	0.701
26	0.707
27	0.716
28	0.730
29	0.744
30	0.755
31	0.757
32	0.751
33	0.740
34	0.730
35	0.726
36	0.728
37	0.737
38	0.757
39	0.791
40	0.852
41	0.966
42	1.181



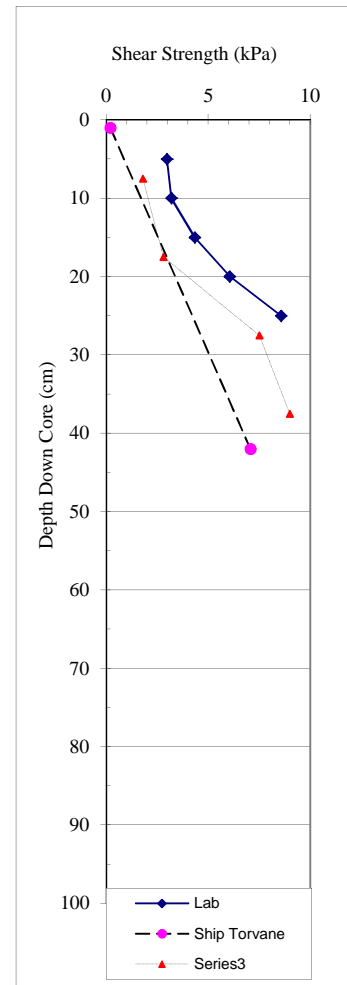
Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.537	0.874	64.753	2.479	1.837	43.143	75.879
18	1.692	1.031	64.531	2.908	1.819	39.052	64.073
** 42	1.712	1.116	58.178	2.669	1.391	34.801	53.376



Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.97	2.28	1.30
10	3.20		
15	4.34	4.00	1.09
20	6.05		
25	8.57	1.83	4.69
31	8.45		
36	10.62	3.20	3.32



Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Shipboard Torvane

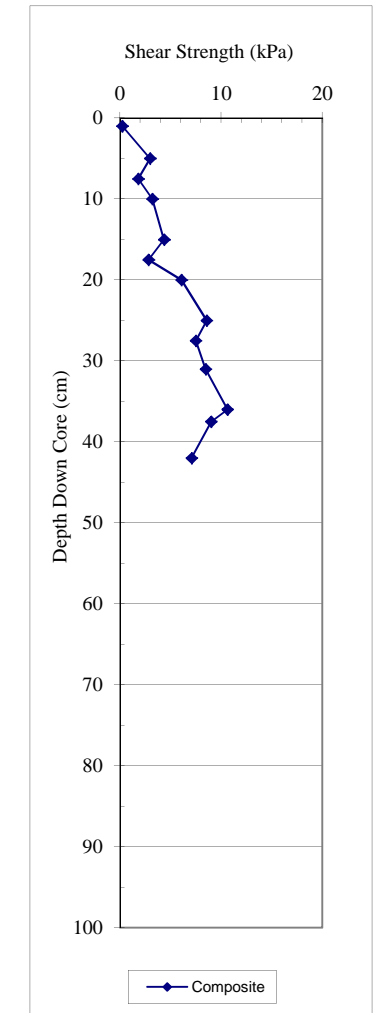
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
42	7.06

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.80
17.5	2.80
27.5	7.50
37.5	9.00

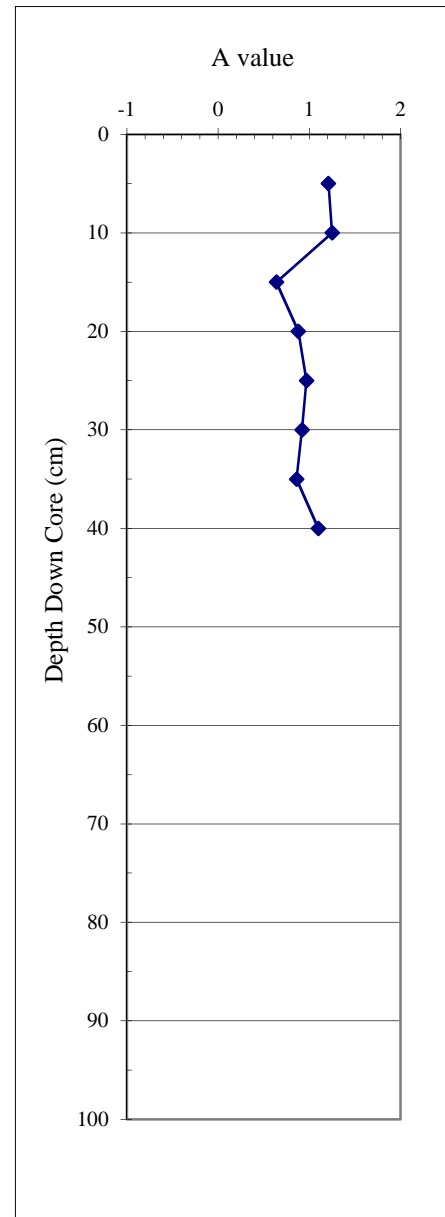
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
5	2.97	2.28
7.5	1.80	
10	3.20	
15	4.34	4.00
17.5	2.80	
20	6.05	
25	8.57	1.83
27.5	7.50	
31	8.45	
36	10.62	3.20
37.5	9.00	
42.0	7.06	



Cruise No: 2007802
Station: 18
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.21	4.83	39.8	4.2 Y 3.8/7
10	1.25	5.18	39.59	4.3 Y 3.8/7
15	0.64	2.83	45.31	4.3 Y 4.4/4
20	0.88	4.3	40.31	4.9 Y 3.9/6
25	0.97	4.53	39.23	4.8 Y 3.8/6
30	0.92	4.05	39.78	4.5 Y 3.8/6
35	0.86	4.02	39.71	4.8 Y 3.8/6
40	1.1	4.61	40.17	4.4 Y 3.9/6



0.61 2.98

Cruise No: 2007802

Station: 18

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1462.54
3	1465.96
4	1467.03
5	1477.27
6	1466.98
7	1465.90
8	1469.45
9	1465.75
10	1462.99
11	1463.78
12	1462.55
13	1461.32
14	1462.40
15	1462.40
16	1461.32
17	1464.57
18	1468.91
19	1473.29
20	1476.58
21	1479.89
22	1479.89
23	1478.94
24	1478.13
25	1481.90
26	1484.57
27	1487.10
28	1491.87
29	1499.09
30	1499.24
31	1488.15
32	1488.30
33	1488.45
34	1493.08
35	1494.20
36	1490.83
37	1491.95
38	1491.95
39	1491.95

Cruise No: 2007802

Station: 18

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
9	1459.05	
19	1473.08	
31	1493.17	

Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

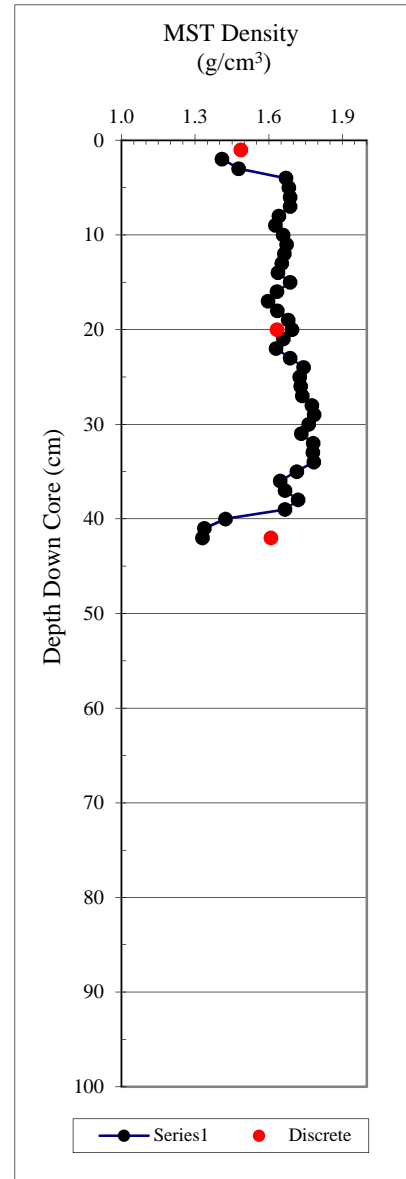
Station: 19

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.410
3	1.478
4	1.670
5	1.683
6	1.687
7	1.687
8	1.642
9	1.628
10	1.659
11	1.674
12	1.664
13	1.654
14	1.638
15	1.688
16	1.635
17	1.598
18	1.635
19	1.679
20	1.695
21	1.660
22	1.630
23	1.687
24	1.743
25	1.727
26	1.730
27	1.738
28	1.776
29	1.785
30	1.763
31	1.733
32	1.782
33	1.780
34	1.784
35	1.714
36	1.647
37	1.667
38	1.720
39	1.667
40	1.425
41	1.338
42	1.331



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.487	0.842	63.019	2.276	1.704	43.401	76.680
20	1.634	0.960	65.806	2.808	1.925	41.238	70.179
** 42	1.609	0.977	61.678	2.550	1.609	39.256	64.626

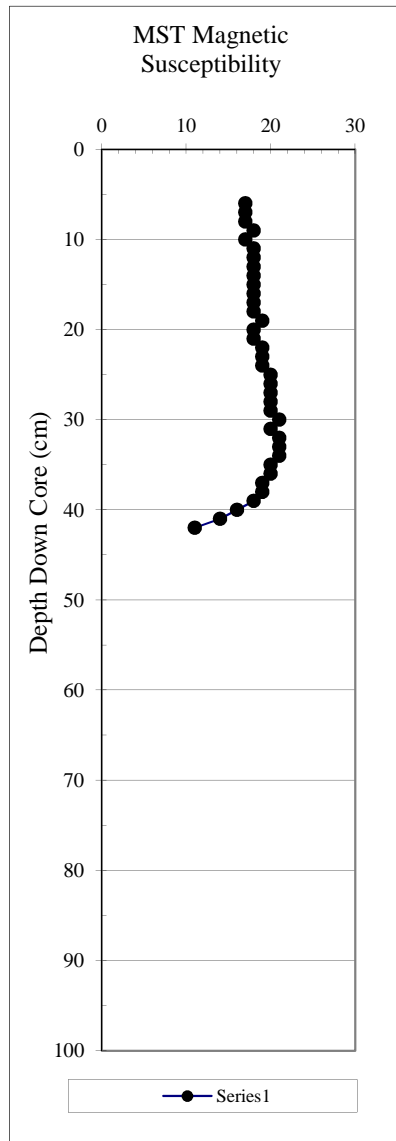
Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	12.00
3	14.00
4	15.00
5	17.00
6	17.00
7	17.00
8	17.00
9	18.00
10	17.00
11	18.00
12	18.00
13	18.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	19.00
20	18.00
21	18.00
22	19.00
23	19.00
24	19.00
25	20.00
26	20.00
27	20.00
28	20.00
29	20.00
30	21.00
31	20.00
32	21.00
33	21.00
34	21.00
35	20.00
36	20.00
37	19.00
38	19.00
39	18.00
40	16.00
41	14.00
42	11.00



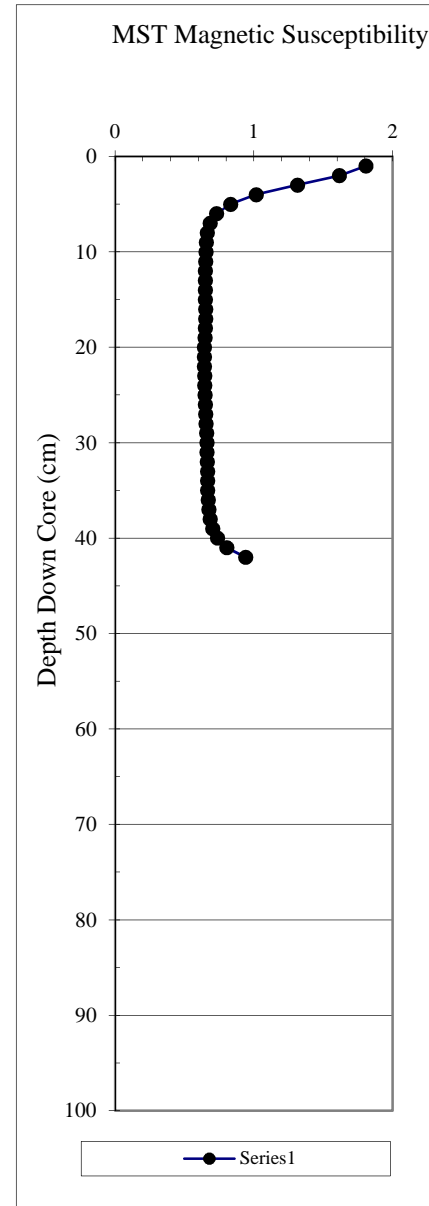
Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.807
2	1.617
3	1.314
4	1.016
5	0.831
6	0.731
7	0.684
8	0.664
9	0.657
10	0.654
11	0.652
12	0.650
13	0.649
14	0.649
15	0.650
16	0.653
17	0.652
18	0.649
19	0.647
20	0.643
21	0.642
22	0.643
23	0.646
24	0.646
25	0.647
26	0.649
27	0.652
28	0.655
29	0.659
30	0.662
31	0.662
32	0.664
33	0.665
34	0.665
35	0.667
36	0.669
37	0.675
38	0.684
39	0.702
40	0.738
41	0.805
42	0.939



Cruise No: 2007802

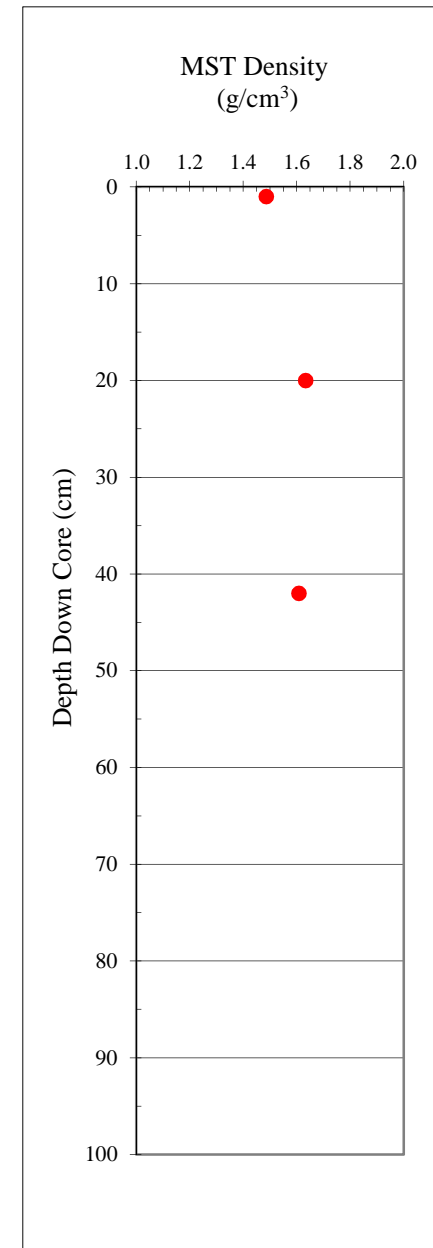
Station: 19

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

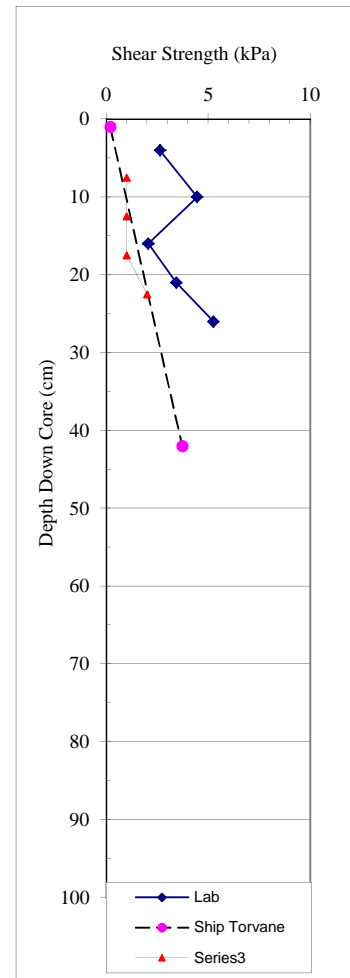
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.487	0.842	63.019	2.276	1.704	43.401	76.680
20	1.634	0.960	65.806	2.808	1.925	41.238	70.179
** 42	1.609	0.977	61.678	2.550	1.609	39.256	64.626



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	2.63	3.31	0.79
10	4.46		
16	2.06	1.83	1.12
21	3.43		
26	5.25	2.63	2.00
31	6.28		
40	5.37	1.37	3.92



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Shipboard Torvane

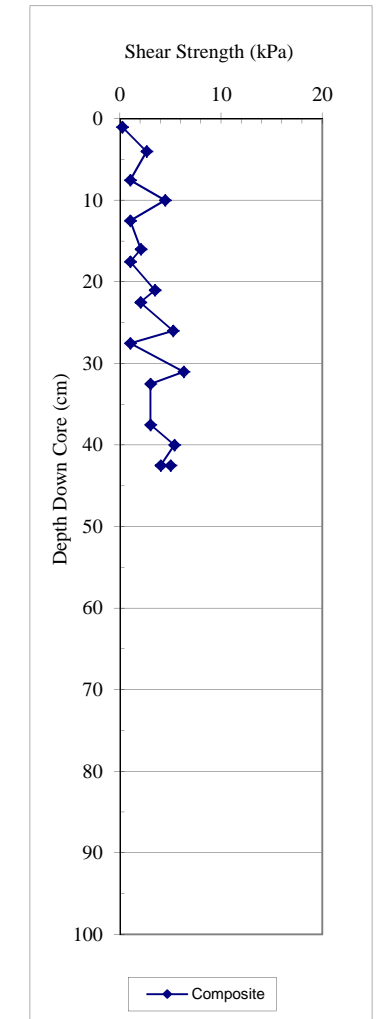
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
42	3.72

Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
12.5	1.00
17.5	1.00
22.5	2.00
27.5	1.00
32.5	3.00
37.5	3.00
42.5	4.00
42.5	5.00

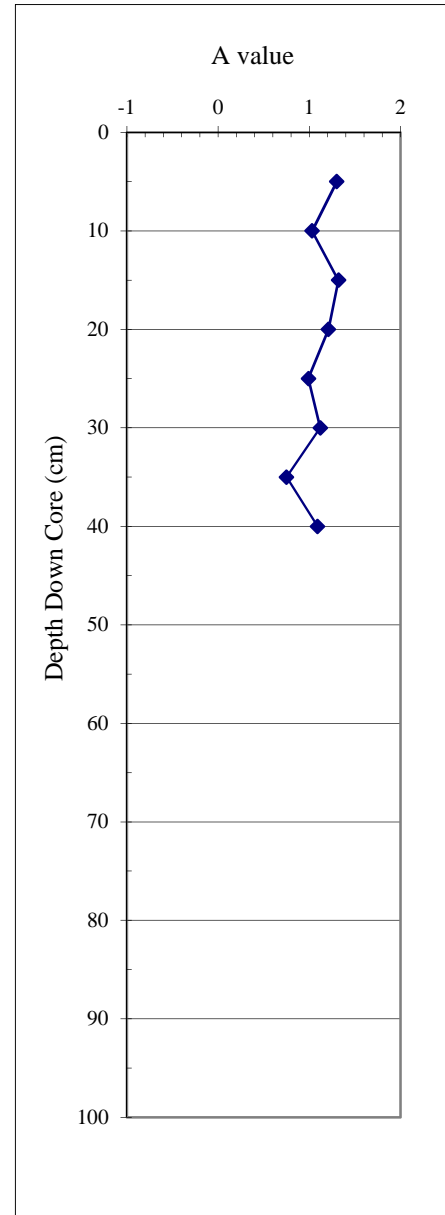
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	0.20	
4	2.63	3.31
7.5	1.00	
10	4.46	
12.5	1.00	
16	2.06	1.83
17.5	1.00	
21	3.43	
22.5	2.00	
26	5.25	2.63
27.5	1.00	
31	6.28	
32.5	3.00	
37.5	3.00	
40	5.37	1.37
42.5	4.00	
42.5	5.00	



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.3	5.3	38.79	4.4 Y 3.7/7
10	1.03	4.52	40.65	4.4 Y 3.9/6
15	1.32	5.17	39.56	4.2 Y 3.8/7
20	1.21	4.98	39.41	4.4 Y 3.8/7
25	0.99	4.56	39.34	4.8 Y 3.8/6
30	1.12	4.96	39.47	4.6 Y 3.8/7
35	0.75	3.2	41.05	4.4 Y 4.0/4
40	1.09	4.3	41.86	4.0 Y 4.0/6



0.61 2.98

Cruise No: 2007802

Station: 19

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1425.57
3	1454.00
4	1483.93
5	1497.16
6	1496.78
7	1495.41
8	1492.41
9	1493.60
10	1493.00
11	1492.85
12	1496.08
13	1494.95
14	1491.57
15	1491.57
16	1493.82
17	1490.45
18	1492.70
19	1496.08
20	1497.21
21	1499.47
22	1498.49
23	1497.36
24	1504.48
25	1512.97
26	1513.12
27	1510.97
28	1514.58
29	1514.58
30	1515.89
31	1515.89
32	1515.89
33	1515.89
34	1513.58
35	1513.58
36	1513.43
37	1511.12
38	1510.36
39	1513.60
40	1505.85
41	1510.92
42	1514.13

Cruise No: 2007802

Station: 19

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
7	1459.05	
17	1459.05	
27	1484.49	
36	1478.76	

Cruise No: 2007802

Station: 20

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

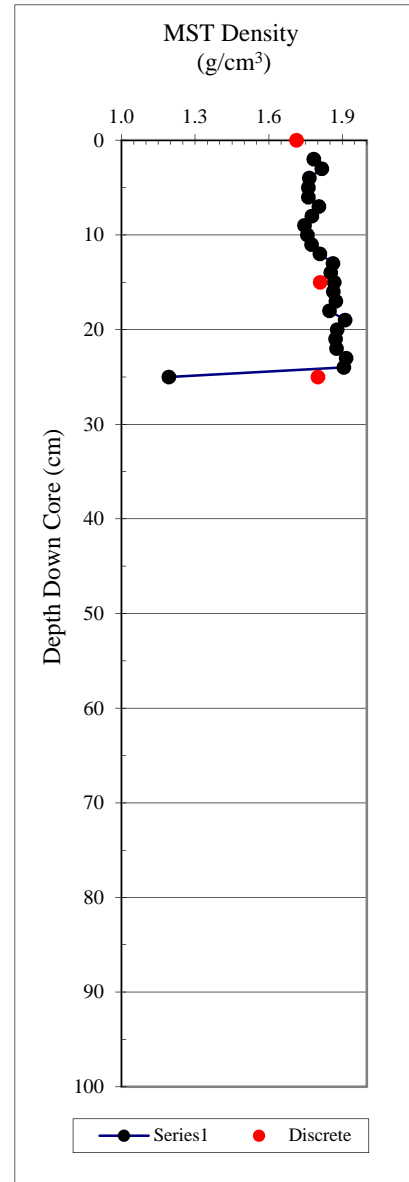
Station: 20

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.784
3	1.816
4	1.765
5	1.762
6	1.761
7	1.805
8	1.777
9	1.746
10	1.757
11	1.775
12	1.809
13	1.863
14	1.853
15	1.868
16	1.864
17	1.874
18	1.848
19	1.912
20	1.879
21	1.872
22	1.877
23	1.915
24	1.906
25	1.194



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.714	1.131	56.953	2.627	1.323	34.025	51.574
15	1.810	1.229	56.757	2.841	1.313	32.116	47.310
** 25	1.802	1.257	53.198	2.685	1.137	30.239	43.346

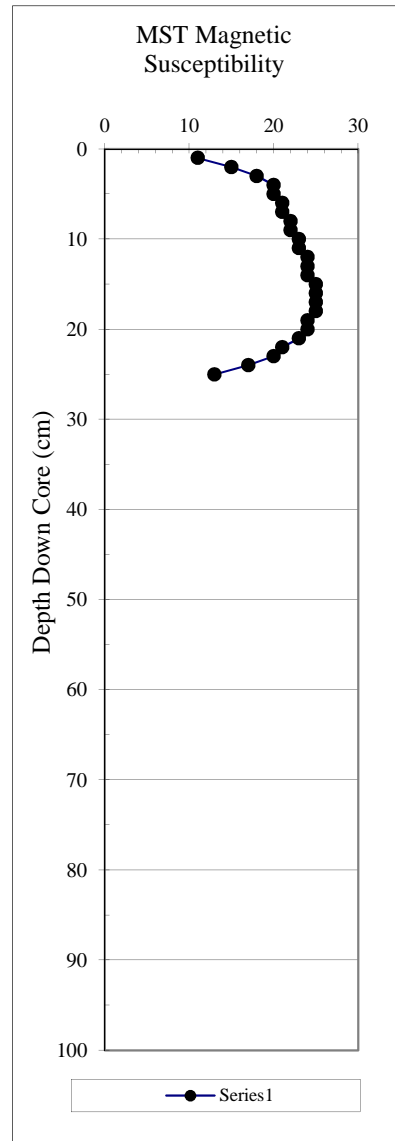
Cruise No: 2007802

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	11.00
2	15.00
3	18.00
4	20.00
5	20.00
6	21.00
7	21.00
8	22.00
9	22.00
10	23.00
11	23.00
12	24.00
13	24.00
14	24.00
15	25.00
16	25.00
17	25.00
18	25.00
19	24.00
20	24.00
21	23.00
22	21.00
23	20.00
24	17.00
25	13.00



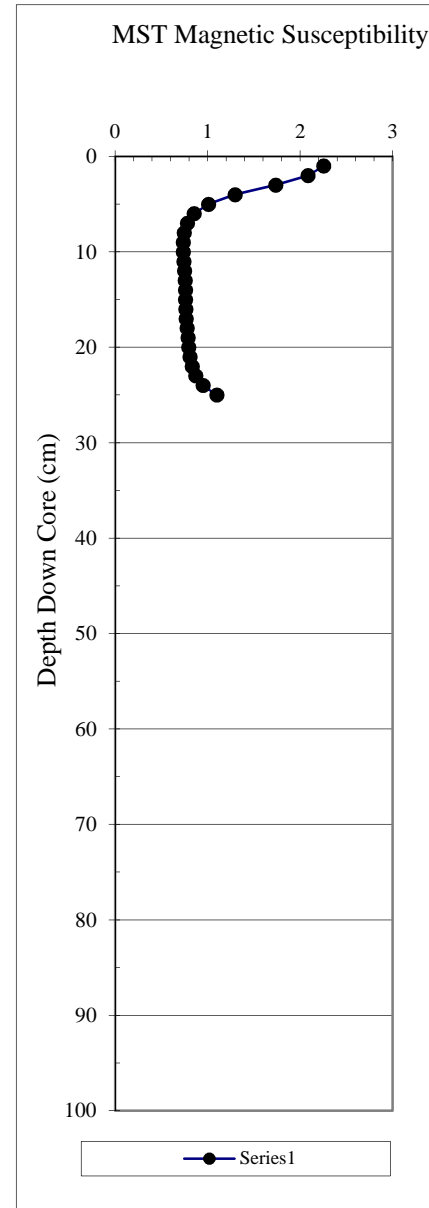
Cruise No: 2007802

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.255
2	2.084
3	1.737
4	1.295
5	1.007
6	0.855
7	0.781
8	0.747
9	0.737
10	0.737
11	0.744
12	0.751
13	0.757
14	0.759
15	0.761
16	0.764
17	0.768
18	0.777
19	0.787
20	0.796
21	0.809
22	0.831
23	0.872
24	0.950
25	1.098



Cruise No: 2007802

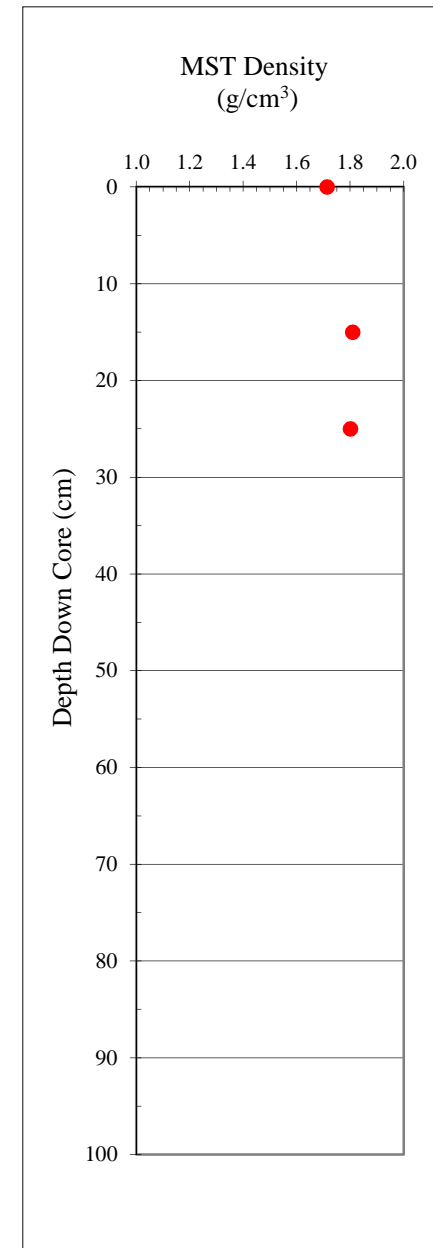
Station: 20

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

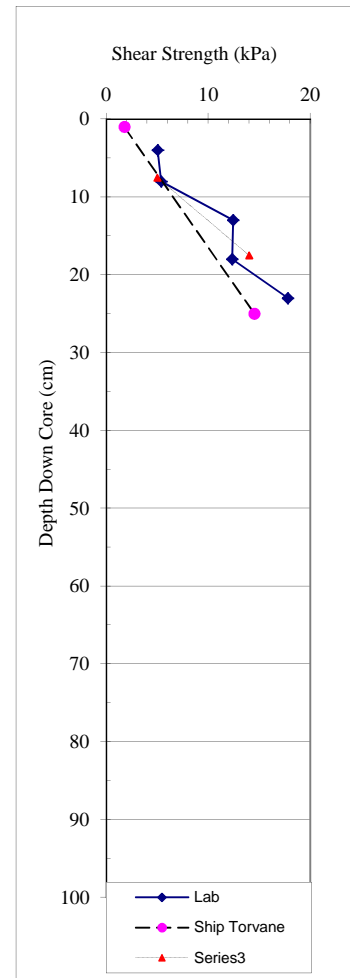
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.714	1.131	56.953	2.627	1.323	34.025	51.574
15	1.810	1.229	56.757	2.841	1.313	32.116	47.310
** 25	1.802	1.257	53.198	2.685	1.137	30.239	43.346



Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	5.03	1.26	3.99
8	5.37		
13	12.45	1.26	9.88
18	12.34		
23	17.82	3.43	5.20



Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Shipboard Torvane

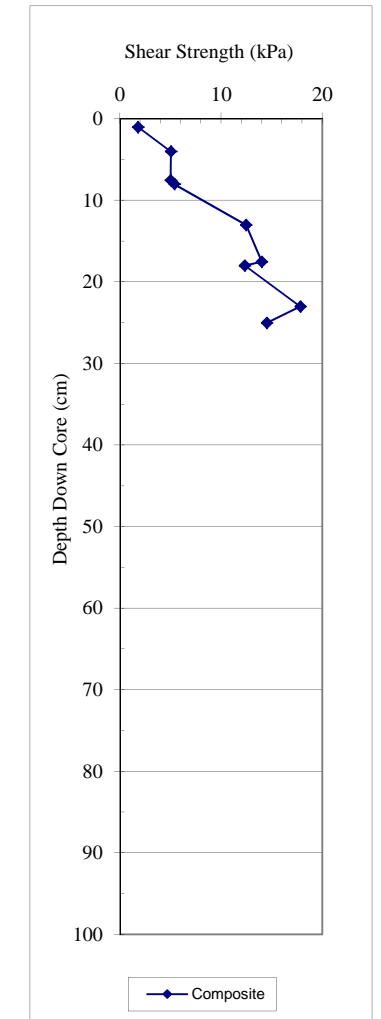
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	1.77
25	14.50

Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	5.00
17.5	14.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	1.77	
4	5.03	1.26
7.5	5.00	
8	5.37	
13	12.45	1.26
17.5	14.00	
18	12.34	
23	17.82	3.43
25	14.50	



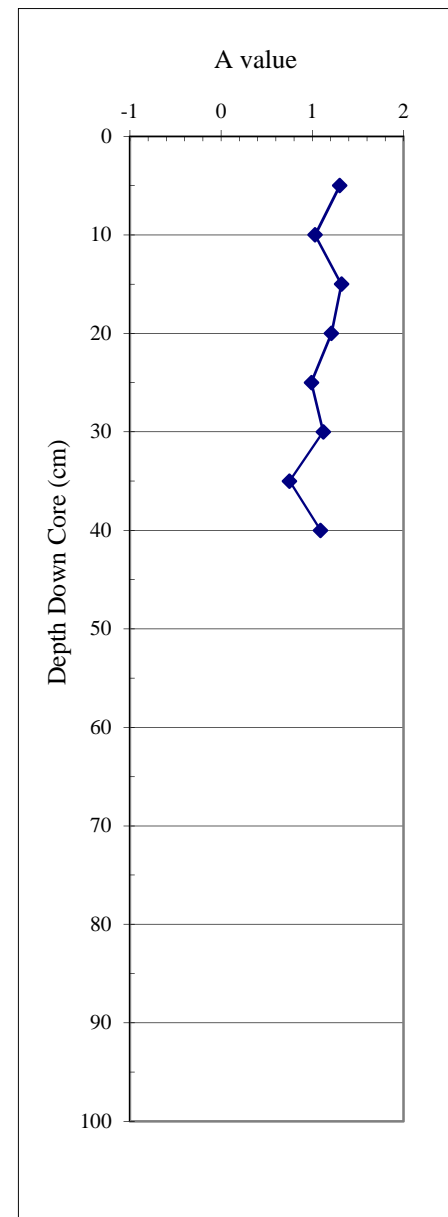
Cruise No: 2007802

Station: 20

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.3	5.3	38.79	4.4 Y 3.7/7
10	1.03	4.52	40.65	4.4 Y 3.9/6
15	1.32	5.17	39.56	4.2 Y 3.8/7
20	1.21	4.98	39.41	4.4 Y 3.8/7
25	0.99	4.56	39.34	4.8 Y 3.8/6
30	1.12	4.96	39.47	4.6 Y 3.8/7
35	0.75	3.2	41.05	4.4 Y 4.0/4
40	1.09	4.3	41.86	4.0 Y 4.0/6



0.61

2.98

Cruise No: 2007802

Station: 20

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1520.98
3	1526.98
4	1509.11
5	1515.23
6	1505.99
7	1506.18
8	1505.87
9	1505.95
10	1503.74
11	1505.42
12	1519.34
13	1526.40
14	1530.11
15	1535.03
16	1534.30
17	1535.65
18	1535.80
19	1537.00
20	1536.27
21	1535.23
22	1537.62
23	1540.02
24	1546.44
25	1554.09

Cruise No: 2007802

Station: 20

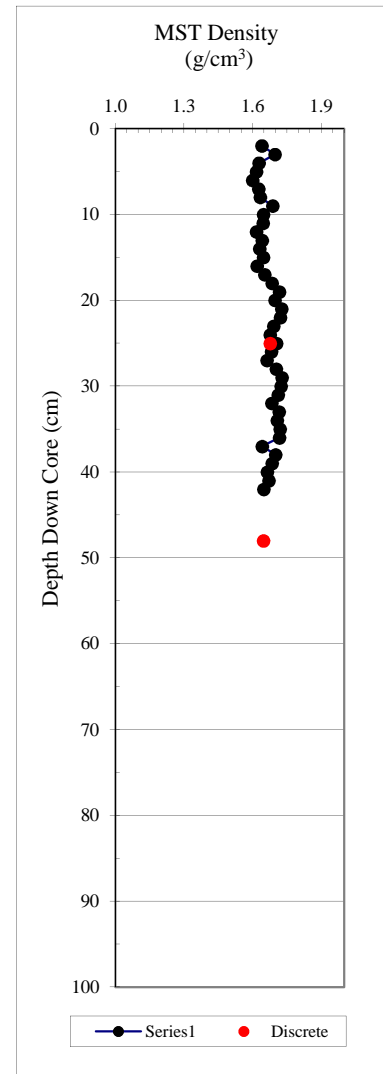
Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
7	1478.76		10.26
17	1516.81		10.63

Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.640
3	1.698
4	1.628
5	1.616
6	1.600
7	1.625
8	1.633
9	1.688
10	1.646
11	1.646
12	1.617
13	1.641
14	1.630
15	1.647
16	1.619
17	1.652
18	1.685
19	1.717
20	1.697
21	1.726
22	1.722
23	1.691
24	1.676
25	1.704
26	1.683
27	1.662
28	1.703
29	1.728
30	1.724
31	1.711
32	1.683
33	1.716
34	1.708
35	1.719
36	1.717
37	1.641
38	1.701
39	1.685
40	1.663
41	1.671
42	1.648
43	1.688
44	1.679
45	1.706
46	1.722
47	1.713
48	1.684



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 25	1.676	1.010	65.058	2.891	1.862	39.740	65.949
** 48	1.647	1.017	61.496	2.641	1.597	38.240	61.918

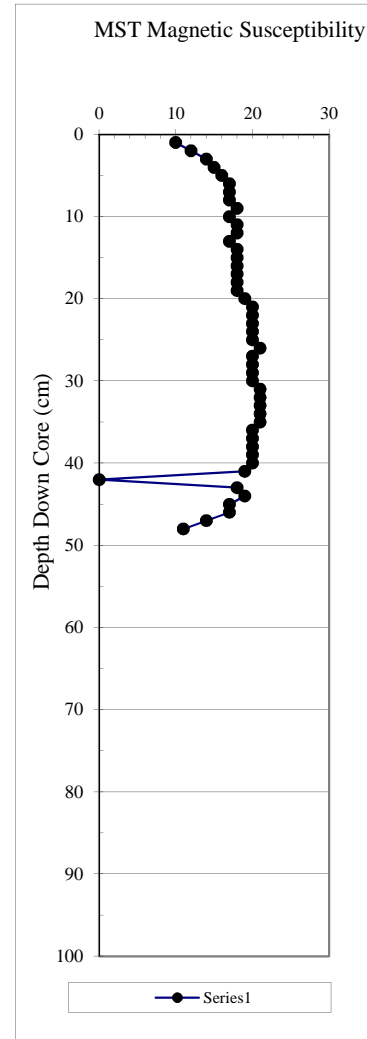
Cruise No: 2007802

Station: 21

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	12.00
3	14.00
4	15.00
5	16.00
6	17.00
7	17.00
8	17.00
9	18.00
10	17.00
11	18.00
12	18.00
13	17.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	18.00
20	19.00
21	20.00
22	20.00
23	20.00
24	20.00
25	20.00
26	21.00
27	20.00
28	20.00
29	20.00
30	20.00
31	21.00
32	21.00
33	21.00
34	21.00
35	21.00
36	20.00
37	20.00
38	20.00
39	20.00
40	20.00
41	19.00
42	0.00
43	18.00
44	19.00
45	17.00
46	17.00
47	14.00
48	11.00



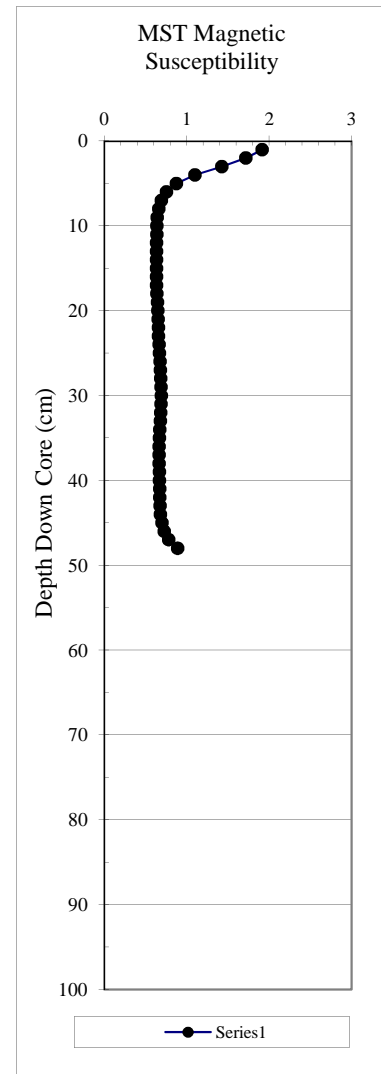
Cruise No: 2007802

Station: 21

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.916
2	1.715
3	1.424
4	1.098
5	0.874
6	0.755
7	0.692
8	0.659
9	0.643
10	0.637
11	0.636
12	0.635
13	0.634
14	0.634
15	0.633
16	0.634
17	0.635
18	0.638
19	0.644
20	0.648
21	0.652
22	0.655
23	0.658
24	0.664
25	0.669
26	0.675
27	0.679
28	0.684
29	0.689
30	0.692
31	0.689
32	0.686
33	0.680
34	0.673
35	0.667
36	0.663
37	0.663
38	0.664
39	0.667
40	0.669
41	0.671
42	0.672
43	0.675
44	0.682
45	0.699
46	0.726
47	0.783
48	0.889



Cruise No: 2007802

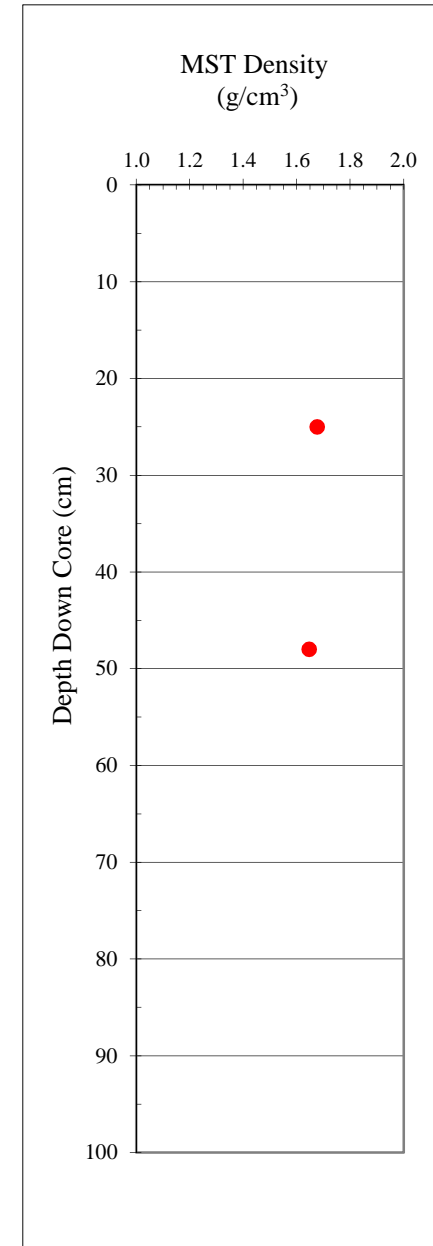
Station: 21

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

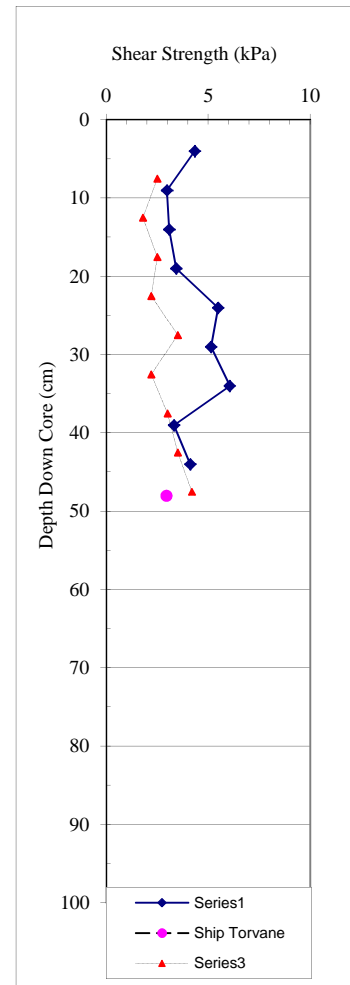
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25	1.676	1.010	65.058	2.891	1.862	39.740	65.949
48	1.647	1.017	61.496	2.641	1.597	38.240	61.918



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	4.34	3.54	1.23
9	2.97		3.86
14	3.08	0.80	
19	3.43		
24	5.48	3.54	1.55
29	5.14		
34	6.05	1.94	3.12
39	3.31		
44	4.11	2.74	1.50



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Shipboard Torvane

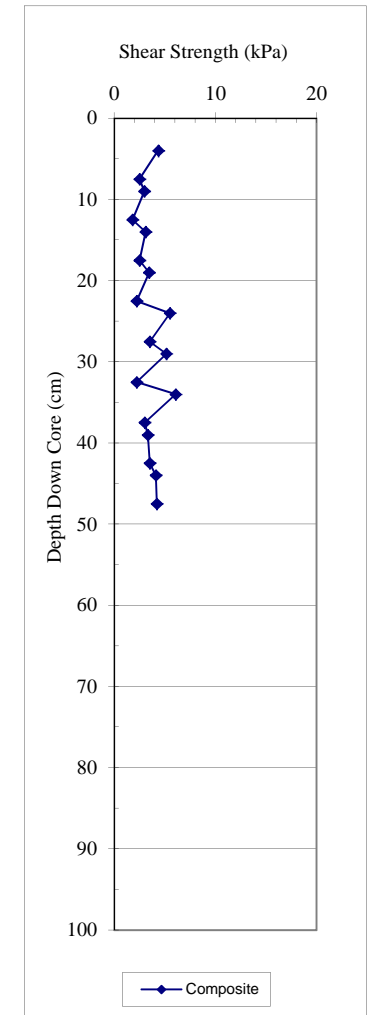
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
48	2.94

Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	2.50
12.5	1.80
17.5	2.50
22.5	2.20
27.5	3.50
32.5	2.20
37.5	3.00
42.5	3.50
47.5	4.20

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
4	4.34	3.54
7.5	2.50	
9	2.97	
12.5	1.80	0.80
14	3.08	
17.5	2.50	
19	3.43	
22.5	2.20	
24	5.48	3.54
27.5	3.50	
29	5.14	
32.5	2.20	
34	6.05	1.94
37.5	3.00	
39	3.31	
42.5	3.50	
44	4.11	2.74
47.5	4.20	



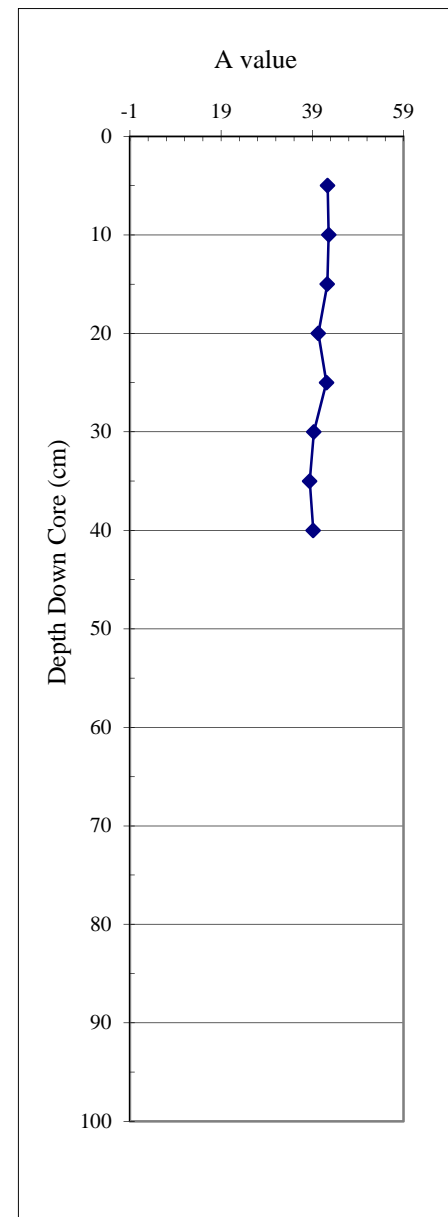
Cruise No: 2007802

Station: 21

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.79	5.63	42.35	3.0 Y 4.1/8
10	0.94	3.6	42.59	4.0 Y 4.1/5
15	1.29	5.34	42.28	4.3 Y 4.1/7
20	1.38	5.45	40.3	4.1 Y 3.9/7
25	0.99	3.83	42.12	3.9 Y 4.1/5
30	1.01	4.58	39.33	4.7 Y 3.8/6
35	1.24	5.05	38.41	4.3 Y 3.7/7
40	1.66	6.07	39.18	3.8 Y 3.8/8
45	1.12	4.63	39.31	4.4 Y 3.8/6



0.61

2.98

Cruise No: 2007802

Station: 21

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1508.55
3	1509.19
4	1493.69
5	1514.51
6	1511.22
7	1510.35
8	1511.87
9	1515.23
10	1511.81
11	1514.23
12	1509.69
13	1508.55
14	1509.69
15	1508.55
16	1501.79
17	1506.29
18	1509.69
19	1514.23
20	1516.52
21	1513.40
22	1513.01
23	1519.87
24	1521.02
25	1521.02
26	1521.02
27	1520.02
28	1521.92
29	1528.15
30	1528.46
31	1515.95
32	1515.12
33	1530.38
34	1528.36
35	1523.04
36	1517.61
37	1514.19
38	1513.06
39	1512.91
40	1510.49
41	1510.19
42	1510.04
43	1512.31
44	1516.71
45	1515.42
46	1514.36
47	1516.36
48	1525.71

Cruise No: 2007802

Station: 21

Sample Type: ***Push Core***

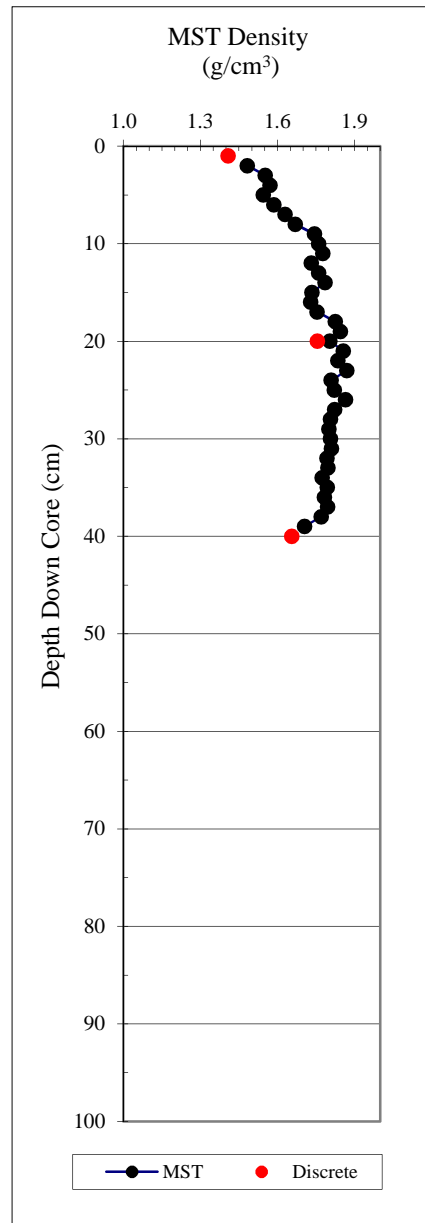
Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
7	1453.52		6.99
17	1456.28		7.56
27	1467.43		7.96
37	1467.43		8.27

Cruise No: 2007802
 Station: 34
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 34
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.4823	0.010	0.01
3	1.5528	0.051	0.06
4	1.5707	0.053	0.11
5	1.545	0.053	0.17
6	1.5864	0.055	0.22
7	1.6299	0.059	0.28
8	1.6693	0.064	0.34
9	1.7444	0.069	0.41
10	1.7607	0.072	0.49
11	1.7766	0.072	0.56
12	1.7324	0.071	0.63
13	1.7608	0.072	0.70
14	1.7854	0.073	0.78
15	1.7349	0.071	0.85
16	1.7288	0.070	0.92
17	1.7544	0.073	0.99
18	1.8247	0.077	1.07
19	1.8448	0.079	1.14
20	1.8042	0.079	1.22
21	1.8565	0.080	1.30
22	1.8358	0.081	1.38
23	1.8704	0.081	1.47
24	1.8097	0.079	1.54
25	1.8219	0.079	1.62
26	1.8646	0.080	1.70
27	1.8227	0.079	1.78
28	1.8067	0.077	1.86
29	1.8004	0.076	1.94
30	1.8068	0.077	2.01
31	1.81	0.077	2.09
32	1.7925	0.076	2.17
33	1.7969	0.075	2.24
34	1.7739	0.075	2.32
35	1.7936	0.075	2.39
36	1.7829	0.075	2.46
37	1.796	0.075	2.54
38	1.7704	0.072	2.61
39	1.7056	0.363	2.97



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.41	0.63	76.36	2.64	3.12	55.57	125.07
20	1.76	1.14	60.20	2.86	1.51	35.11	54.11
** 40	1.66	1.05	58.84	2.56	1.43	36.39	57.21

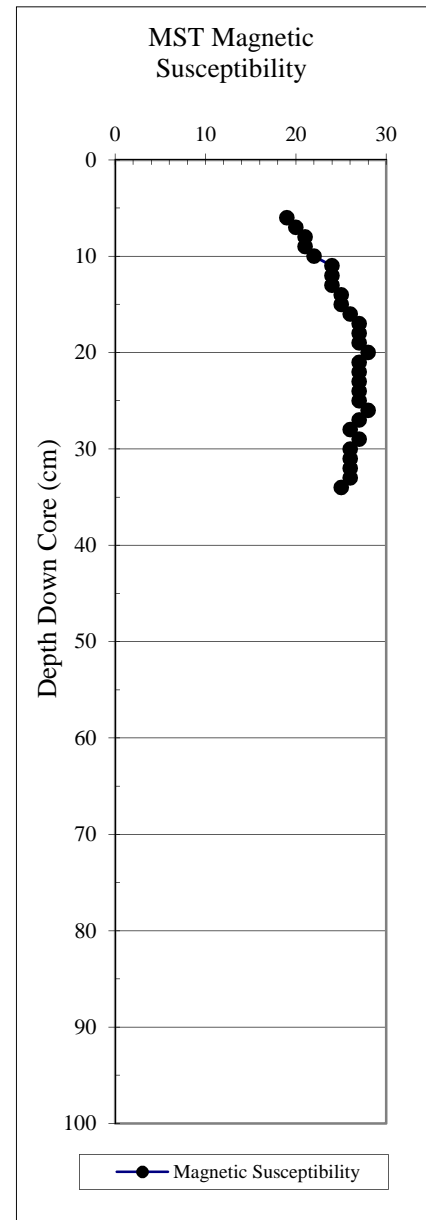
Cruise No: 2007802

Station: 34

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
6	19
7	20
8	21
9	21
10	22
11	24
12	24
13	24
14	25
15	25
16	26
17	27
18	27
19	27
20	28
21	27
22	27
23	27
24	27
25	27
26	28
27	27
28	26
29	27
30	26
31	26
32	26
33	26
34	25



Cruise No: 2007802

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	
2	1.599
3	1.314
4	1.035
5	0.834
6	0.723
7	0.669
8	0.647
9	0.643
10	0.650
11	0.662
12	0.673
13	0.682
14	0.690
15	0.696
16	0.701
17	0.707
18	0.711
19	0.716
20	0.721
21	0.725
22	0.726
23	0.726
24	0.726
25	0.728
26	0.730
27	0.730
28	0.728
29	0.725
30	0.721
31	0.720
32	0.718
33	0.718
34	0.723
35	0.737
36	0.762
37	0.807
38	0.886
39	1.021

Cruise No: 2007802

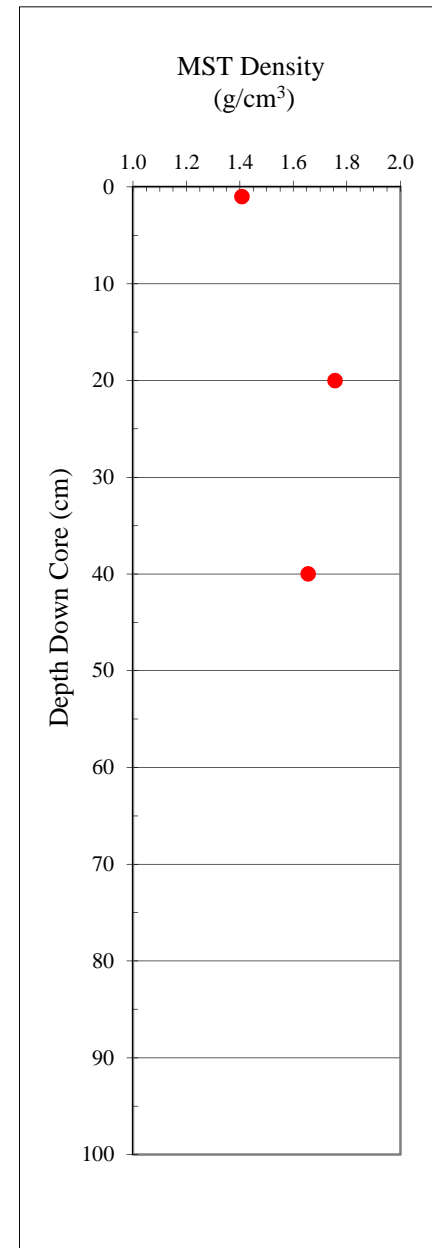
Station: 34

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

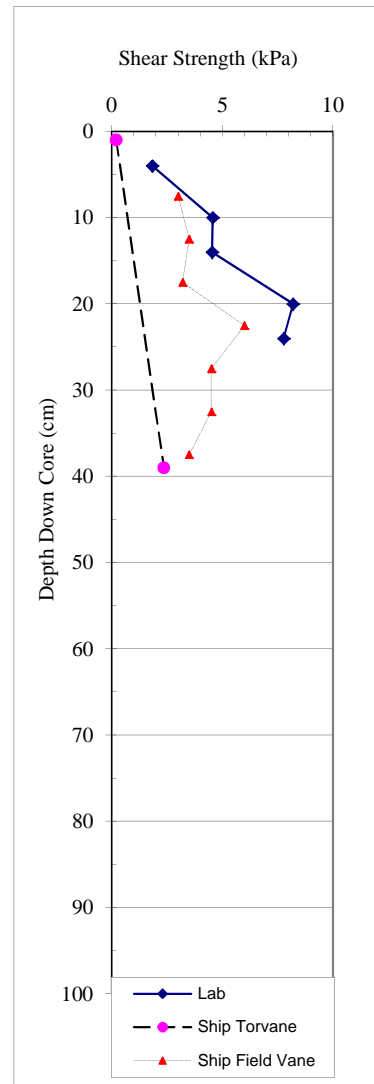
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.41	0.63	76.36	2.64	3.12	55.57	125.07
20	1.76	1.14	60.20	2.86	1.51	35.11	54.11
** 40	1.66	1.05	58.84	2.56	1.43	36.39	57.21
averages:	1.61	0.94	65.13	2.69	2.02	42.36	78.79



Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	1.83		
10	4.57	1.94	2.35
14	4.54		
20	8.20	1.11	7.40
24	7.77		
28	7.88	5.14	1.53
34	3.88		
38	5.32	3.54	1.50

Disturbed Uneven Surface



Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Shipboard Torvane

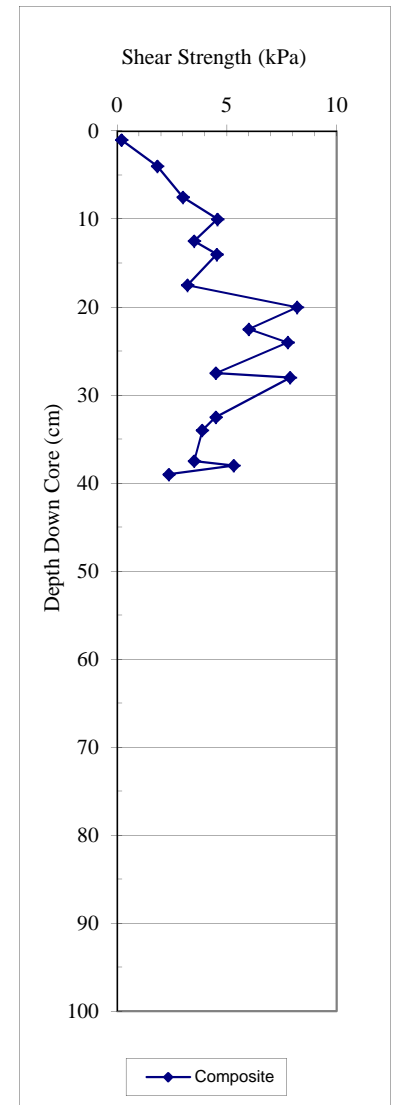
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
39.0	2.35

Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.00
12.5	3.50
17.5	3.20
22.5	6.00
27.5	4.50
32.5	4.50
37.5	3.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
4	1.83	
7.5	3.00	
10	4.57	1.94
12.5	3.50	
14	4.54	
17.5	3.20	
20	8.20	1.11
22.5	6.00	
24	7.77	
27.5	4.50	
28	7.88	5.14
32.5	4.50	
34	3.88	
37.5	3.50	
38	5.32	3.54
39.0	2.35	



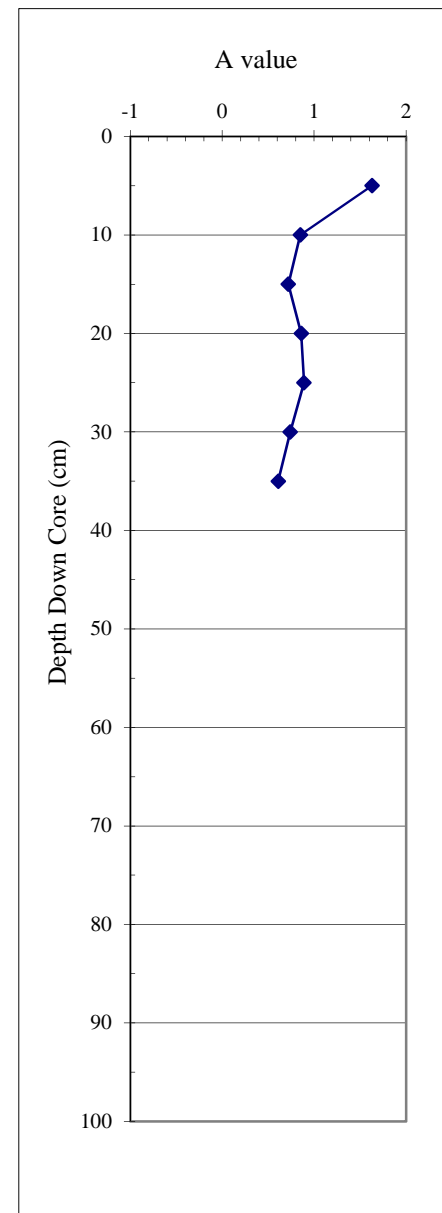
Cruise No: 2003801

Station: 34

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.63	6.07	38.52	4.1 Y 3.7/.8
10	0.85	4.07	40.27	4.9 Y 3.9/.6
15	0.72	3.64	41.5	4.9 Y 4.0/.5
20	0.86	4.45	38.8	5.2 Y 3.7/.6
25	0.89	4.54	38.84	5.3 Y 3.8/.6
30	0.74	4.02	39.67	5.5 Y 3.8/.6
35	0.61	2.98	45.09	4.8 Y 4.4/.4



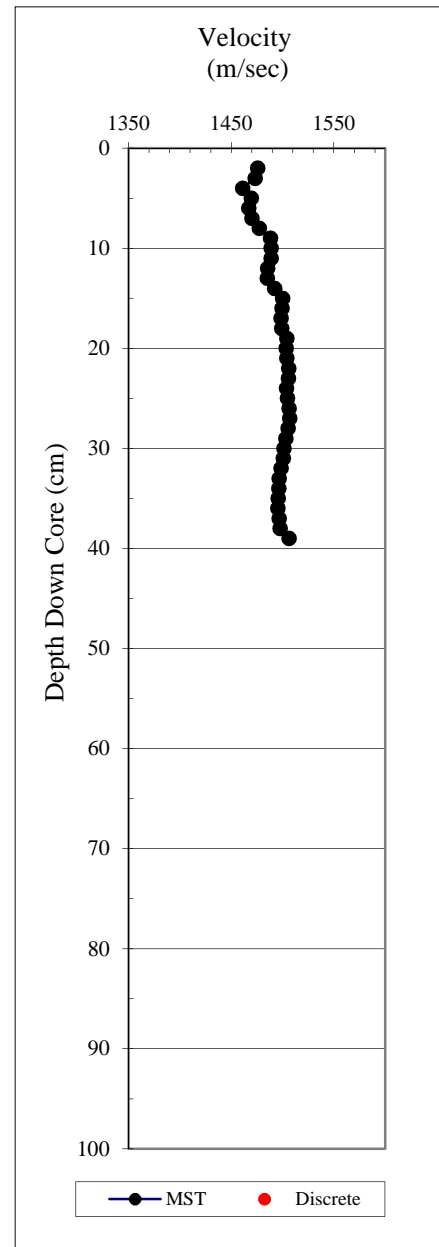
Cruise No: 2007802

Station: 34

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.702
3	1473.245
4	1461.311
5	1469.577
6	1467.136
7	1470.154
8	1477.345
9	1488.319
10	1488.998
11	1488.845
12	1485.592
13	1485.07
14	1492.348
15	1500
16	1499.616
17	1498.543
18	1499.156
19	1504.078
20	1503.69
21	1504.305
22	1506.078
23	1505.689
24	1503.991
25	1504.759
26	1506.376
27	1506.99
28	1505.292
29	1503.293
30	1501.453
31	1500.611
32	1498.627
33	1496.801
34	1496.27
35	1495.668
36	1495.364
37	1496.575
38	1497.511
39	1506.421



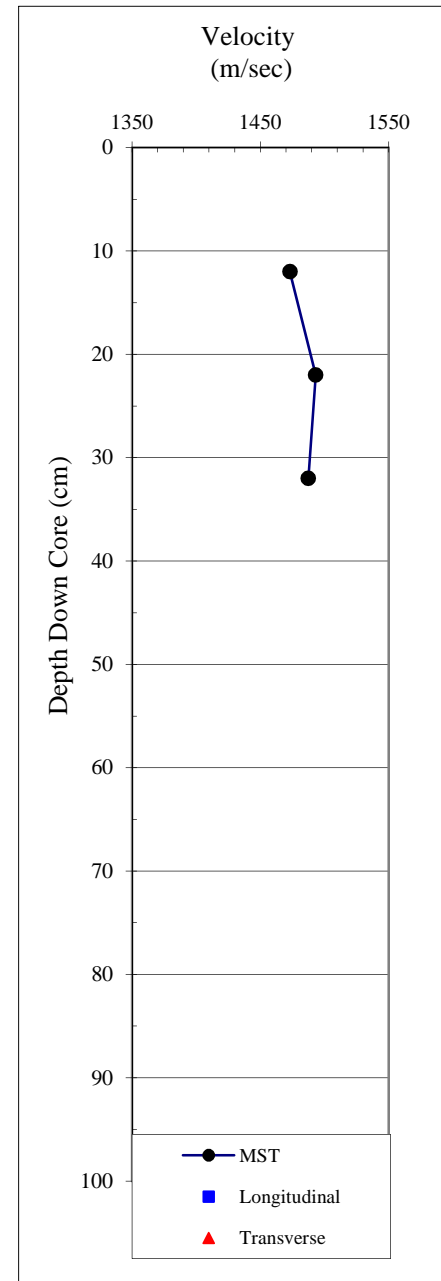
Cruise No: 2007802

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk	Discrete	Discrete	Temperature (C)
	Velocity (m/sec)	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1473.08			7.81
22	1493.17			8.29
32	1487.37			8.73



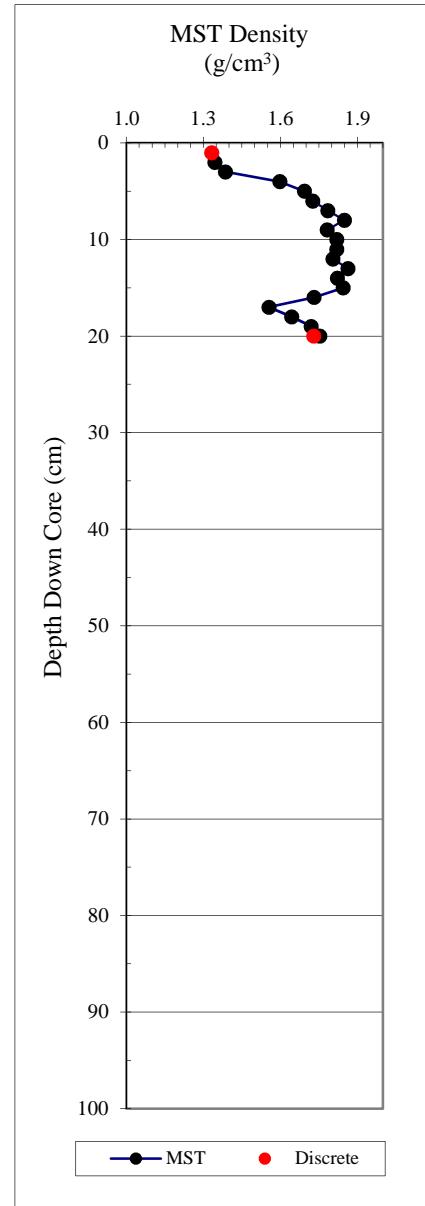
Cruise No: 2007802

Station: 35

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.3441	-0.001	0.00
3	1.3849	0.040	0.04
4	1.5971	0.053	0.09
5	1.6929	0.064	0.16
6	1.7258	0.069	0.23
7	1.7842	0.075	0.30
8	1.8491	0.078	0.38
9	1.7821	0.077	0.46
10	1.8187	0.077	0.53
11	1.8189	0.078	0.61
12	1.8035	0.078	0.69
13	1.8622	0.080	0.77
14	1.8212	0.080	0.85
15	1.8444	0.077	0.92
16	1.7301	0.068	0.99
17	1.5543	0.059	1.05
18	1.6431	0.060	1.11
19	1.7196	0.067	1.18
20	1.7526	0.180	1.36



average 1.712

Cruise No: 2007802

Station: 35

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.331274	0.5908174	72.31021	2.133701	2.611439	55.62015	125.3275
** 20	1.729037	1.170151	54.57868	2.576215	1.201609	32.32353	47.76184

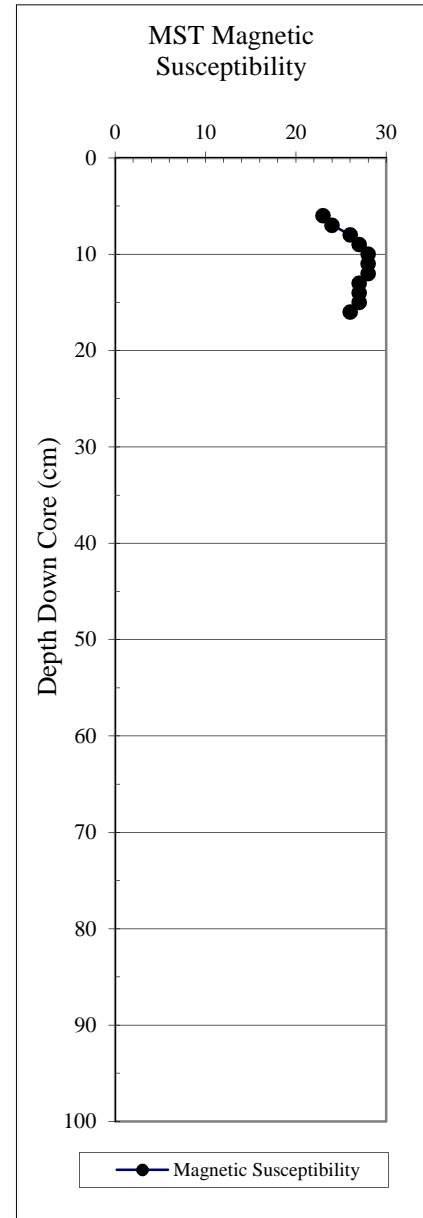
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
6	23
7	24
8	26
9	27
10	28
11	28
12	28
13	27
14	27
15	27
16	26



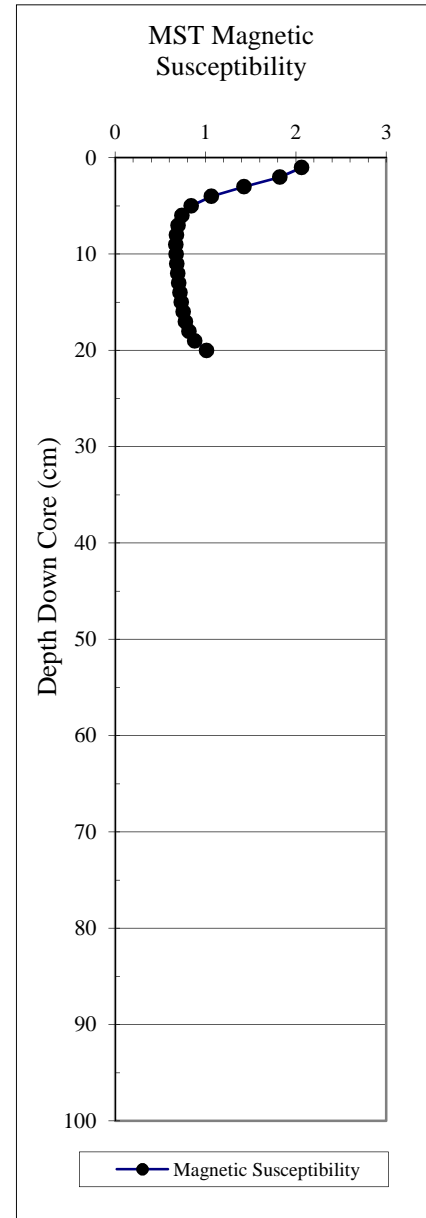
Cruise No: 2007802

Station: 35

Sample Type: ***Push Core***

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.064
2	1.824
3	1.426
4	1.065
5	0.842
6	0.739
7	0.696
8	0.677
9	0.671
10	0.676
11	0.684
12	0.694
13	0.704
14	0.717
15	0.733
16	0.753
17	0.778
18	0.816
19	0.881
20	1.010



Cruise No: 2007802

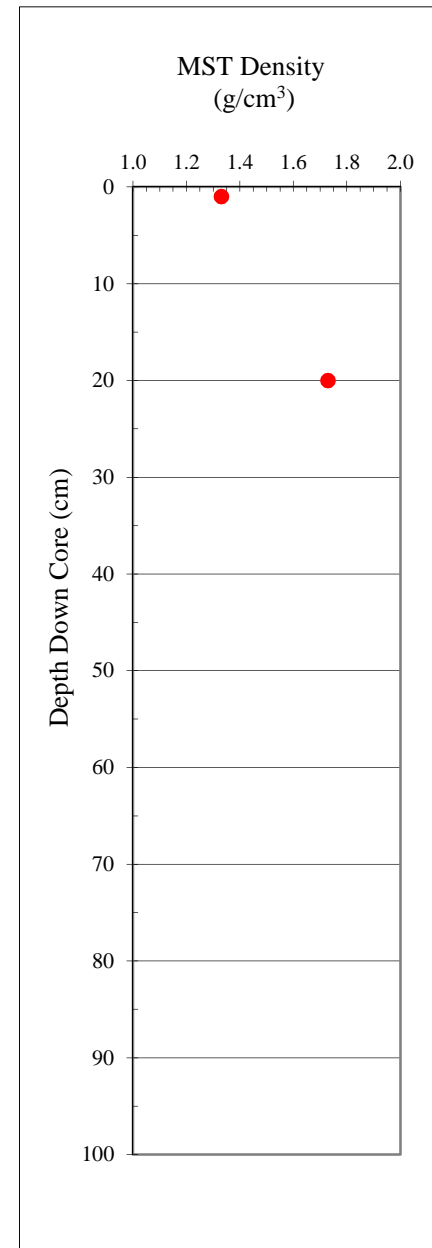
Station: 35

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.00	1.33	0.59	72.31	2.13	2.61	55.62	125.33
** 20.00	1.73	1.17	54.58	2.58	1.20	32.32	47.76

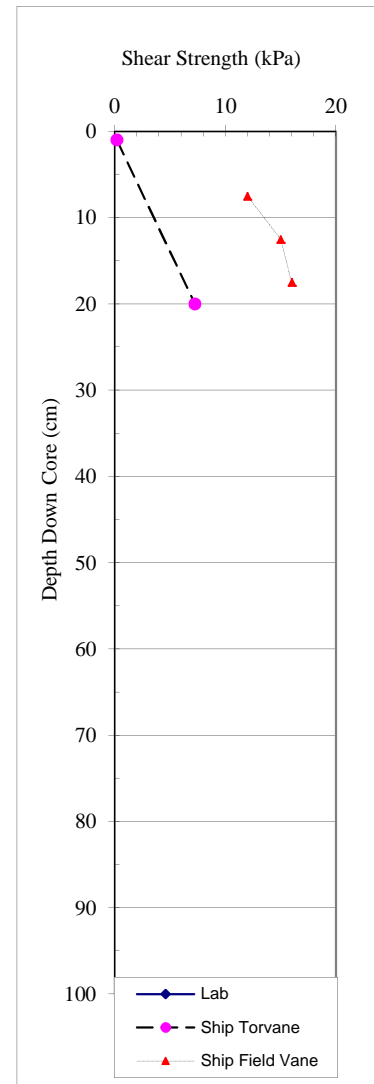


Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u>	<u>Remoulded</u>	
	<u>Undrained</u>	<u>Undrained</u>	
<u>Depth Down</u>	<u>Shear Shear</u>	<u>Shear Shear</u>	<u>Sensitivity</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>	
NA			

Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Shipboard Torvane

	<u>Undrained</u>
<u>Depth</u>	<u>Shear</u>
<u>Down</u>	<u>Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
1.0	0.20
20.0	7.26

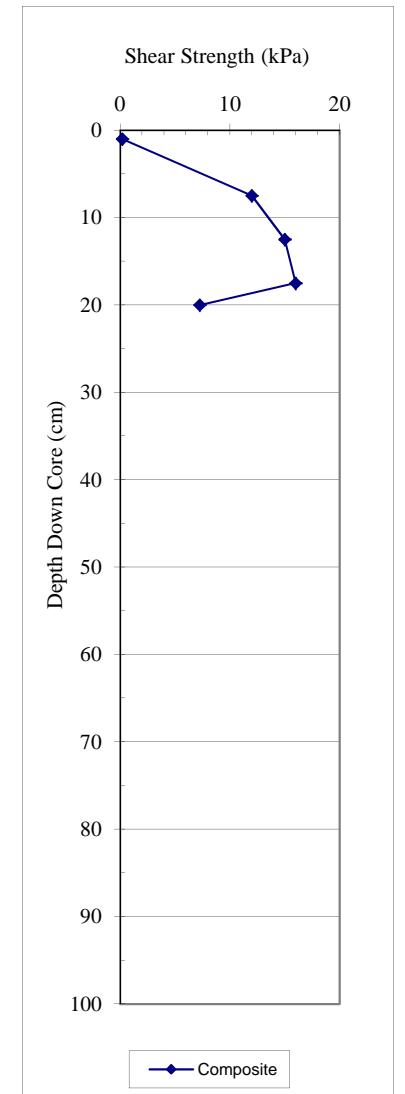


Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u>
<u>Depth</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
7.5	12.00
12.5	15.00
17.5	16.00

Composite

	<u>Peak</u>	<u>Remoulded</u>
<u>Depth</u>	<u>Undrained</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>
1.0	0.20	
7.5	12.00	
12.5	15.00	
17.5	16.00	
20.0	7.26	



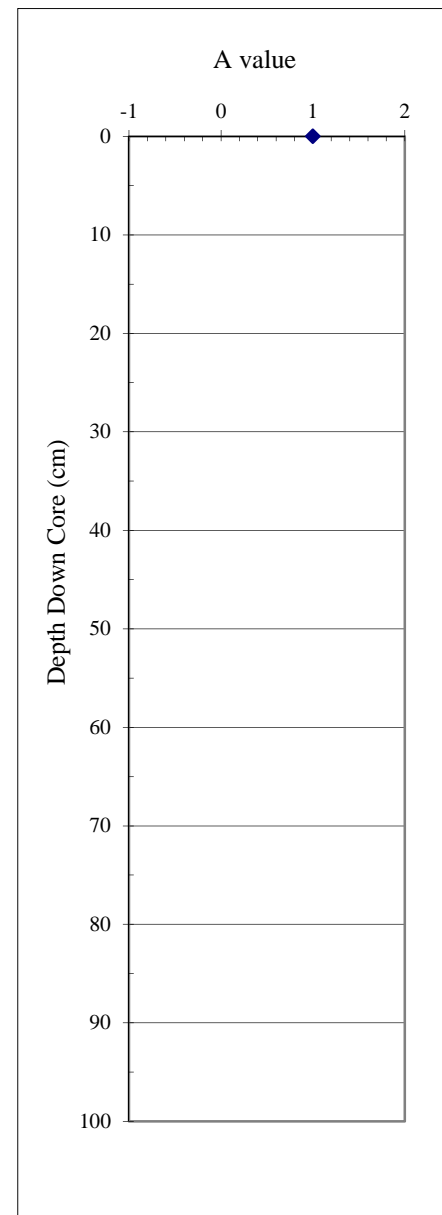
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
NA	NA	NA	NA



Cruise No: 2007802

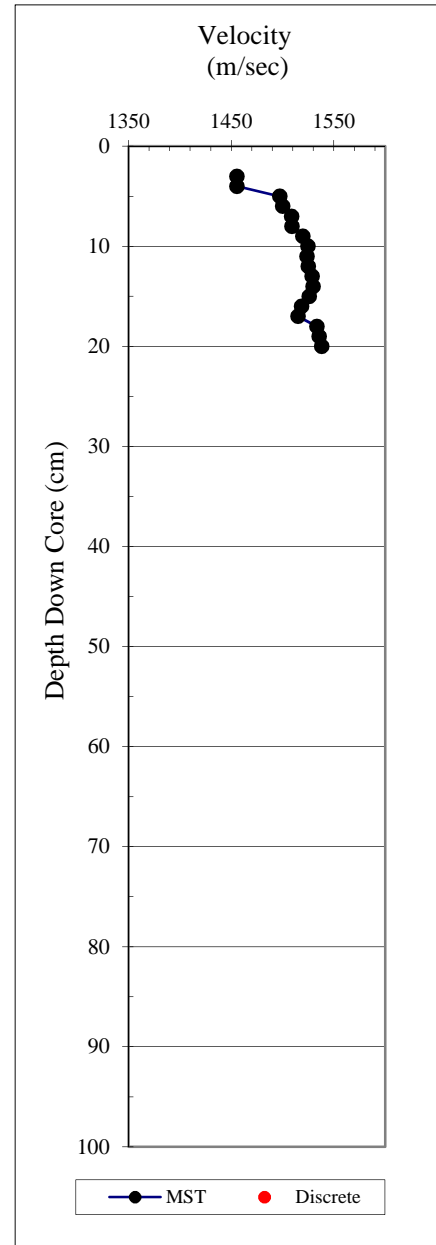
Station: 35

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

3	1455.547
4	1455.402
5	1497.317
6	1500
7	1508.735
8	1509.036
9	1519.879
10	1524.905
11	1523.744
12	1525.209
13	1528.855
14	1529.87
15	1525.915
16	1518.513
17	1515.068
18	1533.385
19	1535.622
20	1538.063



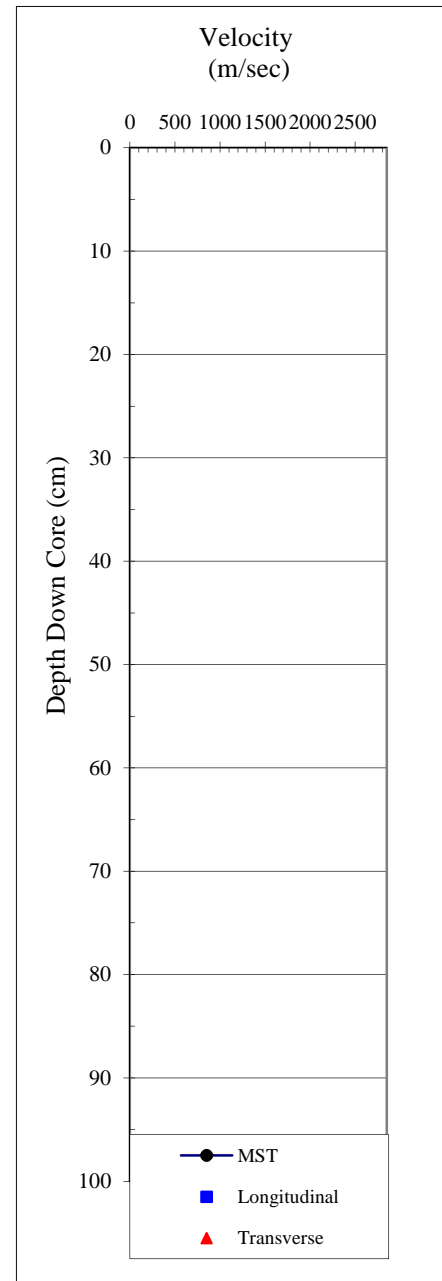
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Laboratory Discrete

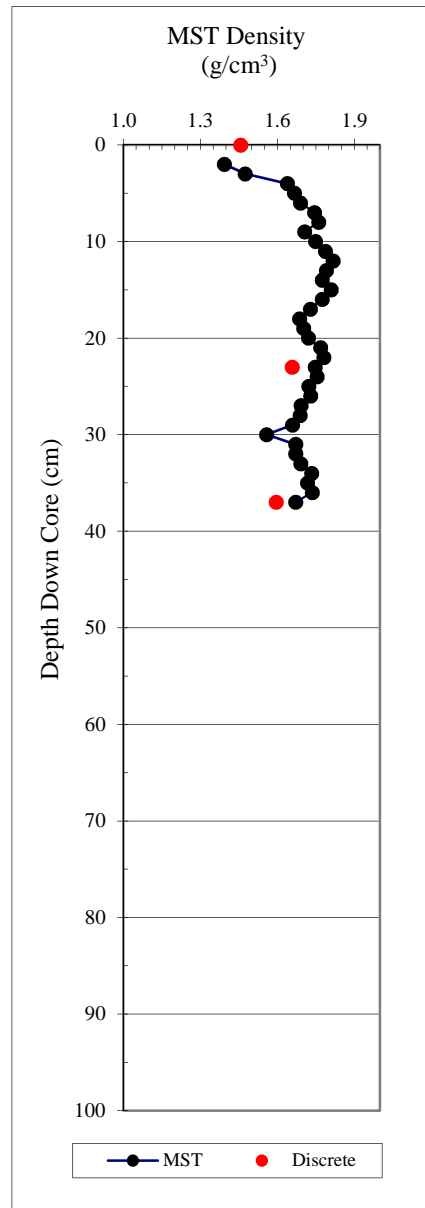
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
NA			



Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
			0.00
2	1.3924	-0.012	-0.01
3	1.4742	0.046	0.03
4	1.6379	0.057	0.09
5	1.6658	0.063	0.15
6	1.6894	0.066	0.22
7	1.7447	0.070	0.29
8	1.7602	0.070	0.36
9	1.7052	0.069	0.43
10	1.748	0.071	0.50
11	1.7865	0.075	0.57
12	1.8171	0.076	0.65
13	1.7899	0.075	0.73
14	1.774	0.075	0.80
15	1.8093	0.075	0.88
16	1.7735	0.073	0.95
17	1.7275	0.069	1.02
18	1.6856	0.066	1.09
19	1.7015	0.067	1.15
20	1.7204	0.069	1.22
21	1.7676	0.072	1.29
22	1.7806	0.073	1.37
23	1.7463	0.072	1.44
24	1.7545	0.071	1.51
25	1.7217	0.069	1.58
26	1.7289	0.068	1.65
27	1.6921	0.066	1.71
28	1.6883	0.065	1.78
29	1.6586	0.061	1.84
30	1.5577	0.058	1.90
31	1.6701	0.061	1.96
32	1.6711	0.064	2.02
33	1.6905	0.066	2.09
34	1.7336	0.068	2.15
35	1.7173	0.069	2.22
36	1.7352	0.068	2.29
37	1.6706	0.376	2.67



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.46	0.72	72.00	2.57	2.57	50.62	102.49
23.00	1.66	0.99	65.04	2.84	1.86	40.18	67.17
** 37.00	1.59	0.94	64.32	2.62	1.80	41.32	70.40

average 1.705

Cruise No: 2007802

Station: 36

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	14
6	15
7	17
8	17
9	18
10	18
11	18
12	19
13	19
14	19
15	19
16	19
17	19
18	18
19	18
20	19
21	19
22	19
23	19
24	19
25	18
26	18
27	17
28	17
29	17
30	17
31	17
32	16

Cruise No: 2007802

Station: 36

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.064
2	1.853
3	1.455
4	1.071
5	0.839
6	0.725
7	0.674
8	0.656
9	0.653
10	0.656
11	0.661
12	0.667
13	0.671
14	0.673
15	0.673
16	0.671
17	0.668
18	0.664
19	0.659
20	0.655
21	0.651
22	0.645
23	0.641
24	0.640
25	0.640
26	0.641
27	0.644
28	0.653
29	0.670
30	0.691
31	0.715
32	0.743
33	0.758
34	0.760
35	0.762
36	0.788
37	0.871

Cruise No: 2007802

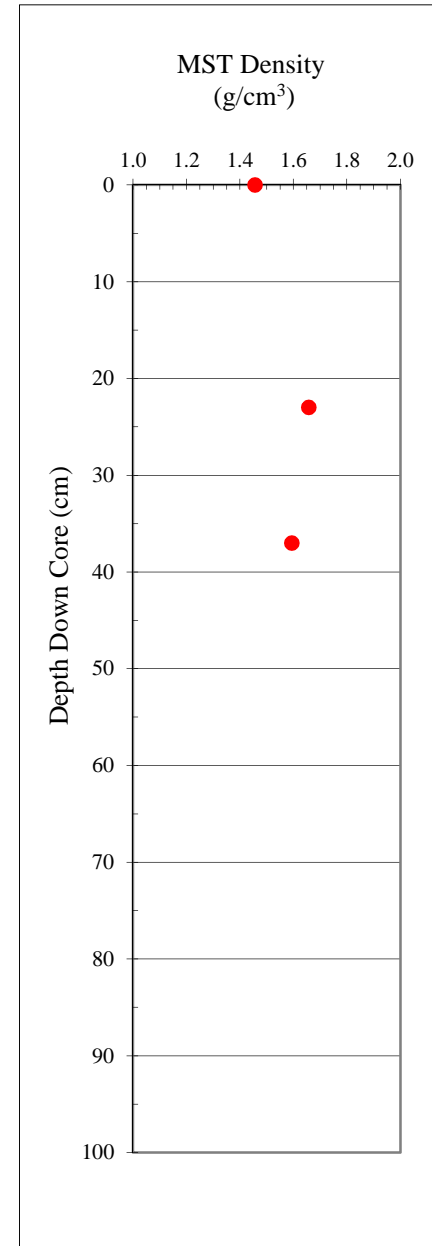
Station: 36

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

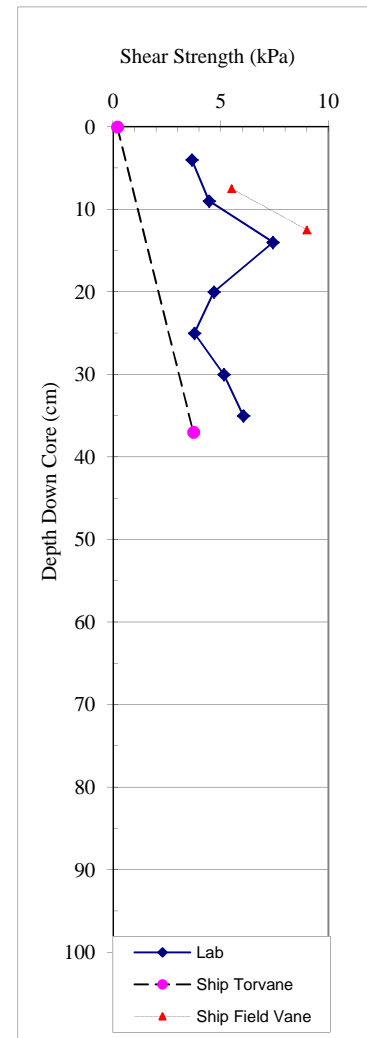
** Shipboard

Depth Down	Bulk Density	Dry Density	Grain Density	Water Con Wet	Water Con Dry
Core (cm)	(g/cm ³)	(g/cm ³)	(g/cm ³)	(%)	(%)
** 0	1.457	0.719	2.570	50.616	102.495
23	1.658	0.992	2.836	40.182	67.174
** 37	1.594	0.936	2.622	41.316	70.403



Cruise No: 2003801
 Station: 36
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
4	3.66	2.51	1.45
9	4.46		
14	7.43	2.06	3.61
20	4.68		
25	3.77	2.06	1.83
30	5.14		
35	6.05	0.69	8.83



Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Shipboard Torvane

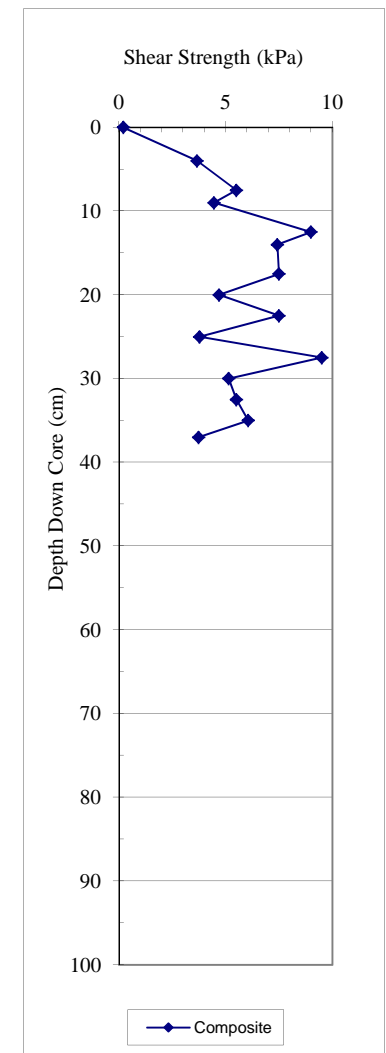
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0.0	0.19614
37.0	3.72666

Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	5.50
12.5	9.00
17.5	7.50
22.5	7.50
27.5	9.50
32.5	5.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
0.0	0.20	
4	3.66	2.51
7.5	5.50	
9	4.46	
12.5	9.00	
14	7.43	2.06
17.5	7.50	
20	4.68	
22.5	7.50	2.06
25	3.77	2.06
27.5	9.50	
30	5.14	
32.5	5.50	
35	6.05	0.69
37.0	3.73	



Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.23	5.22	38.23	4.6 Y	3.7/7
10	0.49	3.26	38.68	6.4 Y	3.7/5
15	0.66	4.06	37.06	6.0 Y	3.6/6
20	0.36	2.81	40.44	6.6 Y	3.9/4
25	0.52	3.53	38.75	6.3 Y	3.7/5
30	0.6	3.78	38.55	6.2 Y	3.6/5
35	0.56	2.87	44.27	4.9 Y	4.3/4

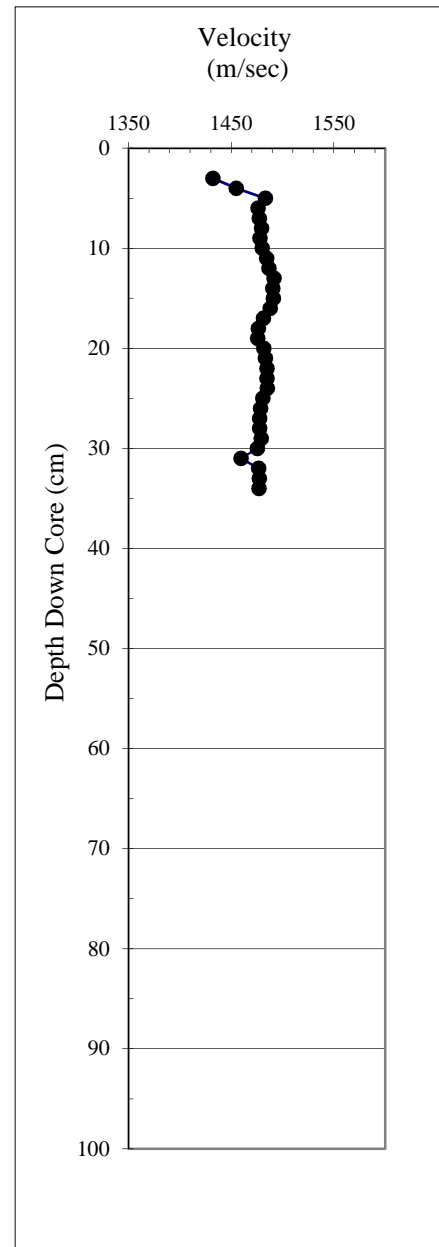
Cruise No: 2007802

Station: 36

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1432.12
4	1454.80
5	1483.21
6	1476.23
7	1477.24
8	1479.70
9	1478.12
10	1480.06
11	1484.58
12	1486.85
13	1491.56
14	1490.58
15	1491.03
16	1488.07
17	1481.58
18	1476.42
19	1475.91
20	1481.67
21	1483.41
22	1484.84
23	1485.00
24	1485.30
25	1480.79
26	1478.70
27	1477.73
28	1477.58
29	1479.21
30	1475.55
31	1459.48
32	1476.73
33	1477.39
34	1477.09
35	1477.96
36	1479.82
37	1485.52



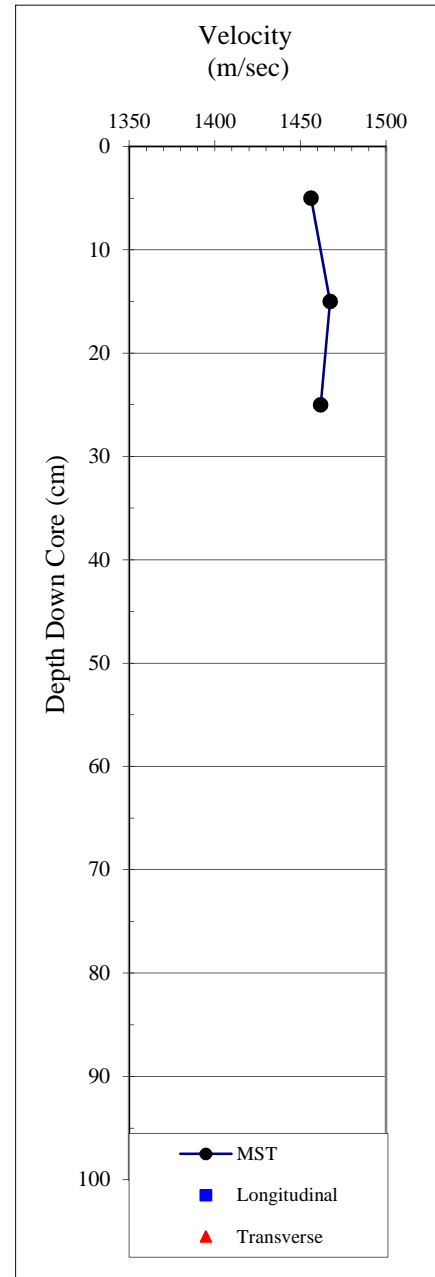
Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Tempreture (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
5	1456.28		9.96
15	1467.43		10.25
25	1461.84		10.58



Cruise No: 2007802

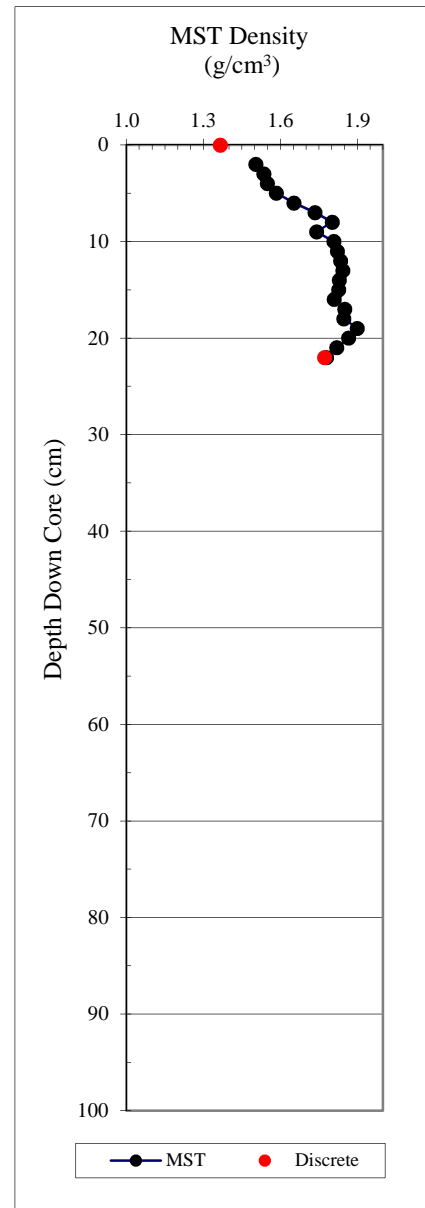
Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.5038	0.011	0.01
3	1.5351	0.050	0.06
4	1.548	0.052	0.11
5	1.5837	0.056	0.17
6	1.6522	0.062	0.23
7	1.7342	0.069	0.30
8	1.8017	0.073	0.37
9	1.7405	0.073	0.45
10	1.8079	0.076	0.52
11	1.8211	0.078	0.60
12	1.8338	0.079	0.68
13	1.8429	0.080	0.76
14	1.8289	0.079	0.84
15	1.8266	0.078	0.92
16	1.8086	0.078	1.00
17	1.8498	0.080	1.07
18	1.8469	0.082	1.16
19	1.8992	0.084	1.24
20	1.8655	0.082	1.32
21	1.8188	0.078	1.40
22	1.7794	0.183	1.58

average 1.759



Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.37	0.63	71.58	2.23	2.52	53.66	115.81
** 22.0	1.77	1.21	54.48	2.67	1.20	31.48	45.94

Cruise No: 2007802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	14
7	16
8	18
9	19
10	20
11	21
12	21
13	21
14	21
15	21
16	21
17	20

**

**

Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.152
2	1.853
3	1.455
4	1.109
5	0.895
6	0.795
7	0.749
8	0.727
9	0.710
10	0.697
11	0.689
12	0.684
13	0.681
14	0.687
15	0.703
16	0.731
17	0.771
18	0.828
19	0.888
20	0.933
21	0.985
22	1.083

Cruise No: 2007802

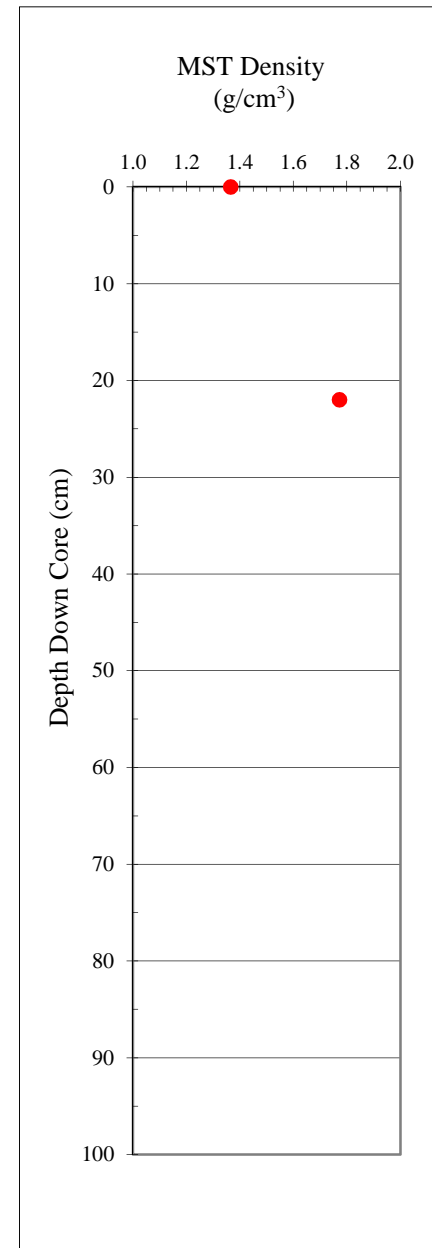
Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.37	0.63	71.58	2.23	2.52	53.66	115.81
** 22.00	1.77	1.21	54.48	2.67	1.20	31.48	45.94



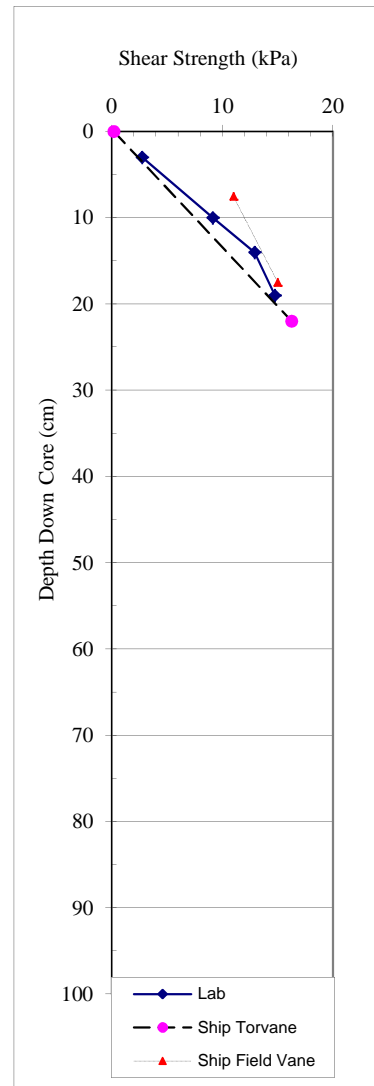
Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.74		
10	9.14	3.08	2.96
14	12.91		
19	14.74	0.69	21.50



Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
0.0	0.20
22.0	16.28

Cruise No: 2007802

Station: 37

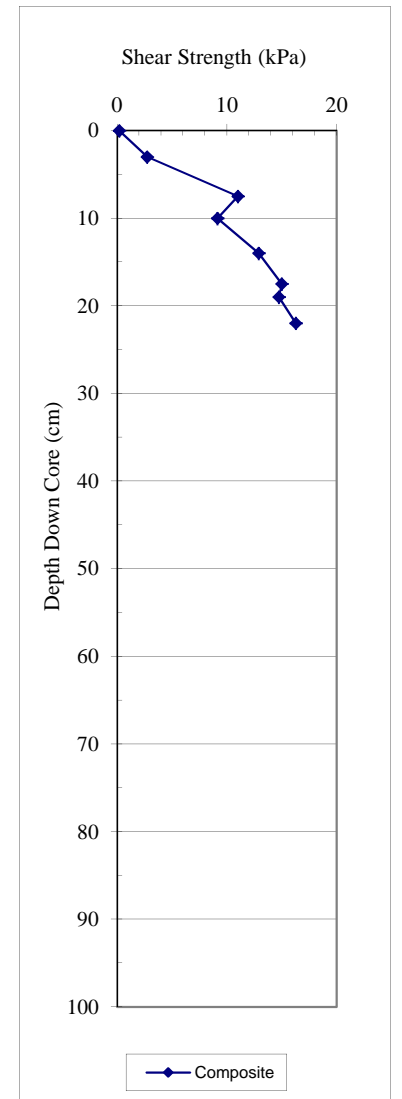
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	11.00
17.5	15.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
3	2.74	
7.5	11.00	
10	9.14	3.08
14	12.91	
17.5	15.00	
19	14.74	0.69
22	16.28	



Cruise No: 2007802

Station: 37

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.8	6.68	38.28	4.0 Y	3.7/9
10	0.15	2.48	37	8.1 Y	3.6/4
15	0.36	2.73	37.61	6.9 Y	3.6/4
20	0.32	2.93	38.49	7.2 Y	3.7/4

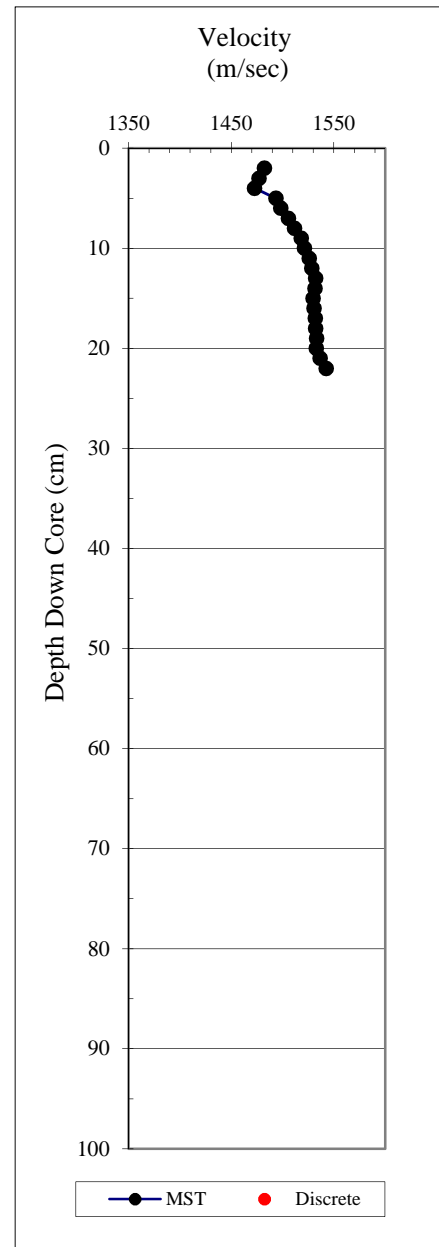
Cruise No: 2007802

Station: 37

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1482.318
3	1477.151
4	1472.754
5	1493.575
6	1498.176
7	1505.855
8	1511.765
9	1518.351
10	1521.434
11	1525.88
12	1528.426
13	1532.339
14	1531.765
15	1529.679
16	1530.775
17	1531.818
18	1532.288
19	1533.333
20	1532.81
21	1536.582
22	1542.614



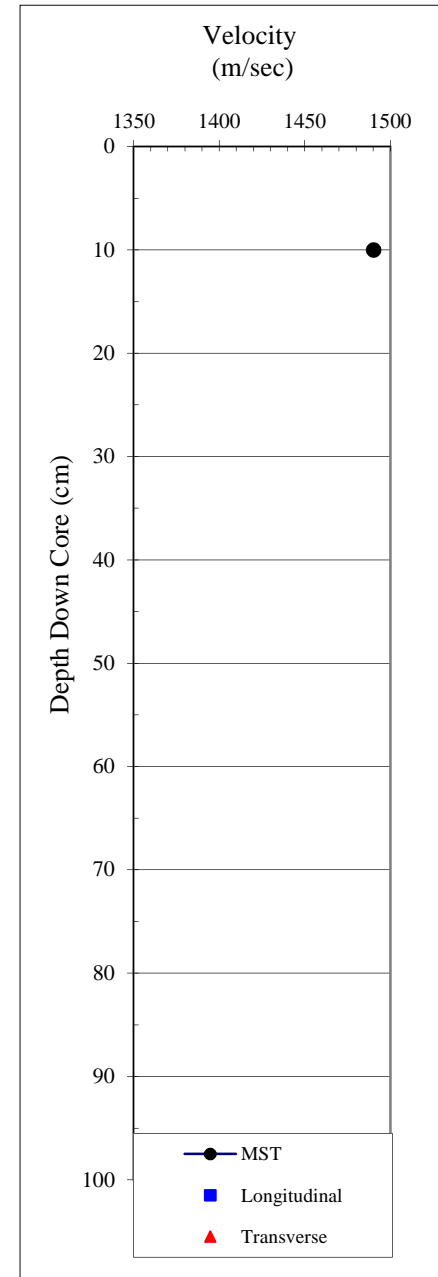
Cruise No: 2007802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1490.26		10.01



Cruise No: 2007802

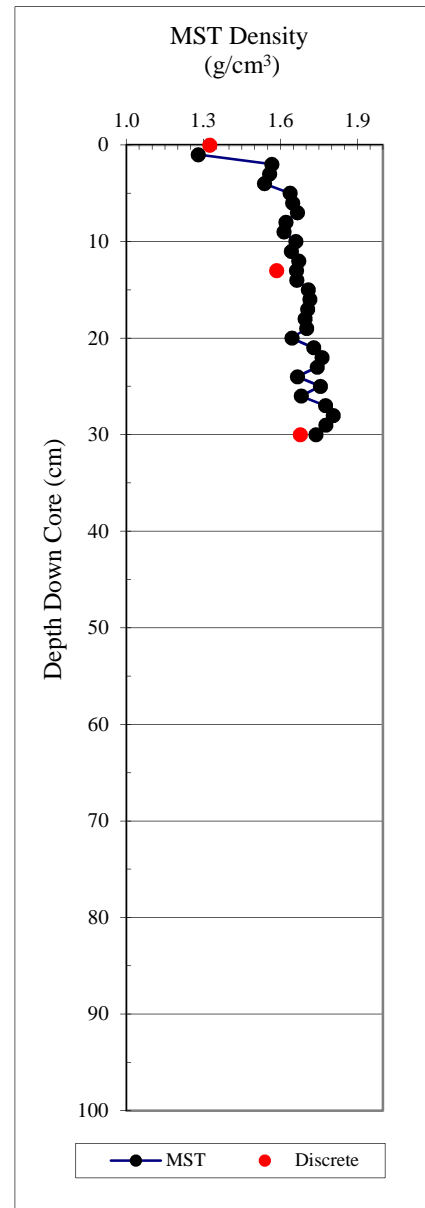
Station: 38

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1	1.279		
2	1.5661	0.046	0.05
3	1.5573	0.052	0.10
4	1.5372	0.053	0.15
5	1.6371	0.058	0.21
6	1.6467	0.061	0.27
7	1.6657	0.061	0.33
8	1.6202	0.059	0.39
9	1.6135	0.059	0.45
10	1.6594	0.061	0.51
11	1.6426	0.062	0.57
12	1.671	0.063	0.64
13	1.6621	0.063	0.70
14	1.6631	0.064	0.76
15	1.7085	0.066	0.83
16	1.7143	0.067	0.90
17	1.7056	0.067	0.96
18	1.695	0.066	1.03
19	1.7021	0.065	1.09
20	1.6444	0.064	1.16
21	1.7293	0.068	1.23
22	1.7621	0.071	1.30
23	1.7435	0.069	1.37
24	1.6658	0.067	1.43
25	1.7556	0.068	1.50
26	1.6804	0.069	1.57
27	1.775	0.072	1.64
28	1.8049	0.075	1.72
29	1.7763	0.074	1.79
30	1.7385	0.264	2.05

average 1.667



Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.324	0.531	77.438	2.353	3.432	59.901	149.380
13.0	1.585	0.883	68.540	2.806	2.179	44.295	79.518
** 30.0	1.677	1.066	59.682	2.645	1.480	36.434	57.316

Cruise No: 2007802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	16
6	16
7	16
8	17
9	17
10	18
11	19
12	18
13	19
14	19
15	19
16	19
17	19
18	20
19	20
20	21
21	21
22	21
23	21
24	21
25	21

Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.672
2	1.361
3	1.031
4	0.808
5	0.694
6	0.636
7	0.607
8	0.592
9	0.586
10	0.584
11	0.588
12	0.591
13	0.593
14	0.595
15	0.597
16	0.602
17	0.606
18	0.613
19	0.622
20	0.632
21	0.646
22	0.659
23	0.671
24	0.681
25	0.687
26	0.691
27	0.699
28	0.719
29	0.764
30	0.867

Cruise No: 2007802

Station: 38

Sample Type: Push Core

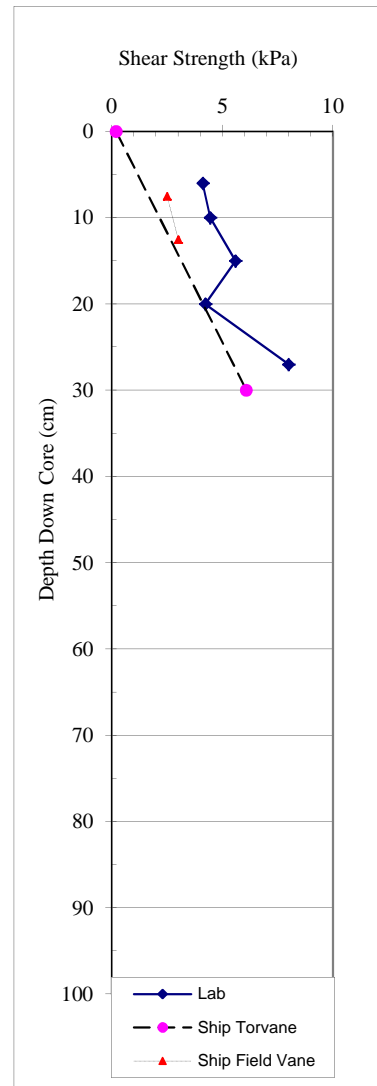
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.324	0.531	77.438	2.353	3.432	59.901	149.380
13.00	1.585	0.883	68.540	2.806	2.179	44.295	79.518
** 30.00	1.677	1.066	59.682	2.645	1.480	36.434	57.316

Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
6	4.11	2.28	1.80
10	4.46		
15	5.60	1.14	4.90
20	4.23		
27	8.00	1.03	7.78



Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Shipboard Torvane

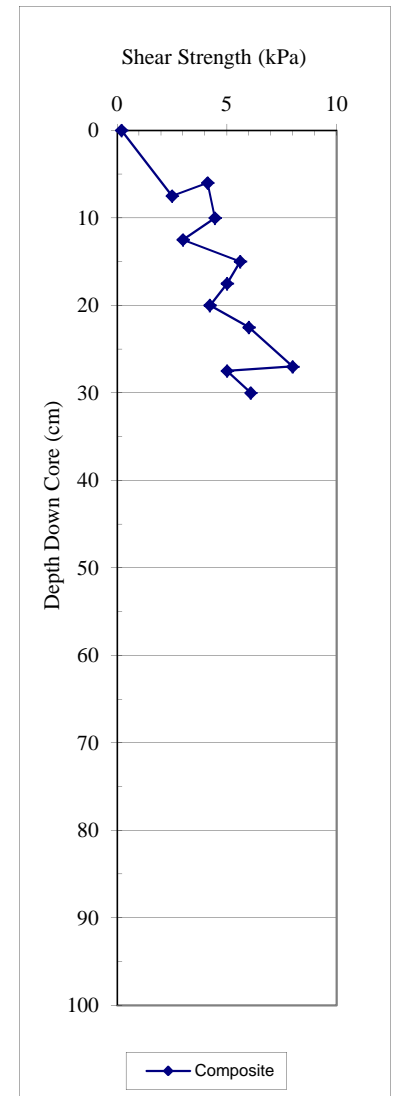
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear Shear (kPa)
0.0	0.20
30.0	6.08

Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.50
12.5	3.00
17.5	5.00
22.5	6.00
27.5	5.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
7.5	2.50	
6	4.11	2.28
10	4.46	
12.5	3.00	
15	5.60	1.14
17.5	5.00	
20	4.23	
22.5	6.00	
27	8.00	1.03
27.5	5.00	
30.0	6.08	



Cruise No: 2007802

Station: 38

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.42	5.48	39.95	4.1 Y	3.8/8
10	1.58	6.1	39.09	4.2 Y	3.8/8
15	0.95	4.46	39.23	4.9 Y	3.8/6
20	1.02	4.92	37.54	5.0 Y	3.6/7
25	0.81	4.46	37.37	5.8 Y	3.6/6

Cruise No: 2007802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1442.464
3	1434.174
4	1479.434
5	1473.512
6	1479.132
7	1478.892
8	1476.383
9	1476.383
10	1477.487
11	1479.55
12	1479.55
13	1478.443
14	1477.337
15	1480.66
16	1485.113
17	1488.47
18	1488.47
19	1483.997
20	1481.77
21	1488.018
22	1497.572
23	1501.522
24	1504.043
25	1502.975
26	1499.619
27	1507.739
28	1506.135
29	1505.82
30	1511.988

Cruise No: 2007802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1450.76		8.4
20	1470.25		8.64

Cruise No: 2007802

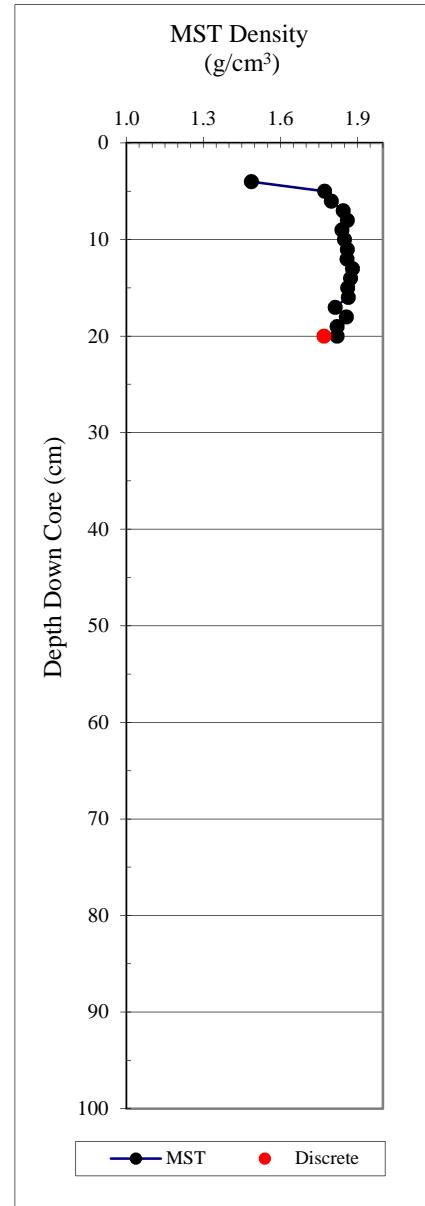
Station: 39

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2			
3			
4	1.4856	0.016	0.02
5	1.7717	0.067	0.08
6	1.7974	0.076	0.16
7	1.8434	0.080	0.24
8	1.8602	0.081	0.32
9	1.8388	0.081	0.40
10	1.8485	0.081	0.48
11	1.8604	0.082	0.56
12	1.8592	0.082	0.65
13	1.8797	0.083	0.73
14	1.8725	0.083	0.81
15	1.8615	0.082	0.89
16	1.8633	0.081	0.98
17	1.8124	0.080	1.06
18	1.8561	0.080	1.14
19	1.8208	0.079	1.21
20	1.8205	0.151	1.36

average 1.821



Cruise No: 2007802

Station: 39

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 20.0	1.769	1.206	54.936	2.677	1.219	31.800	46.628

Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	20
6	22
7	24
8	25
9	25
10	26
11	26
12	27
13	26
14	26
15	26

Cruise No: 2007802

Station: 39

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.656
2	2.429
3	1.796
4	1.234
5	0.925
6	0.785
7	0.731
8	0.712
9	0.708
10	0.710
11	0.713
12	0.717
13	0.721
14	0.725
15	0.729
16	0.741
17	0.760
18	0.793
19	0.851
20	0.967

Cruise No: 2007802

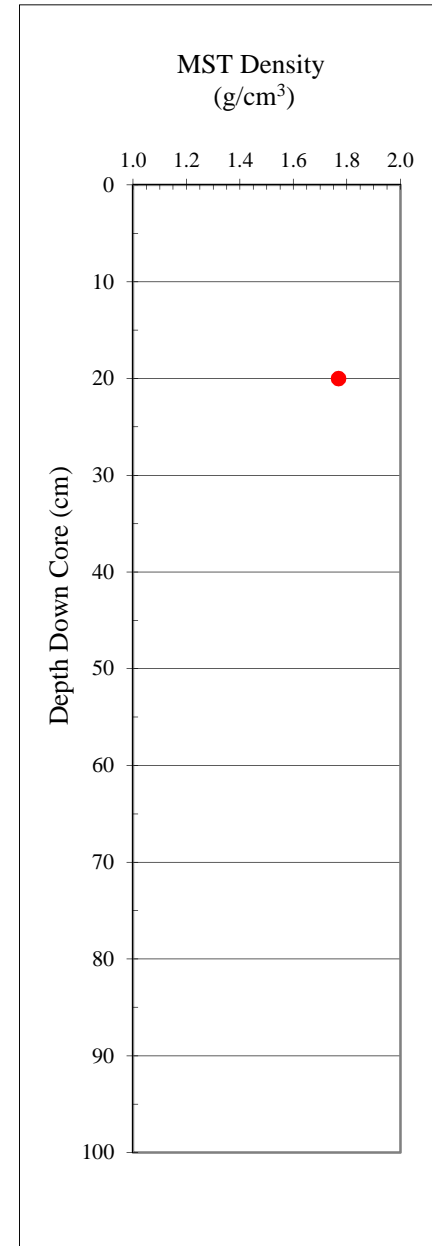
Station: 39

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

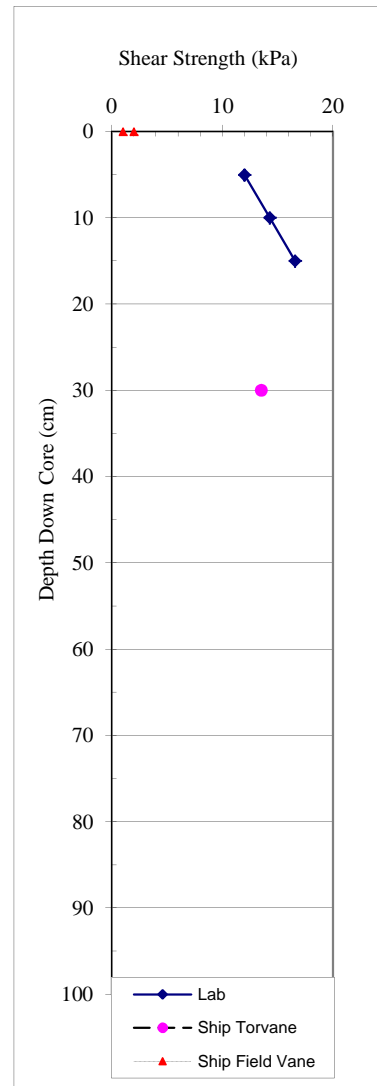
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 20.0	1.769	1.206	54.936	2.677	1.219	31.800	46.628



Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	5	11.99	
10	14.28		
15	16.56	1.26	13.15



Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Shipboard Torvane

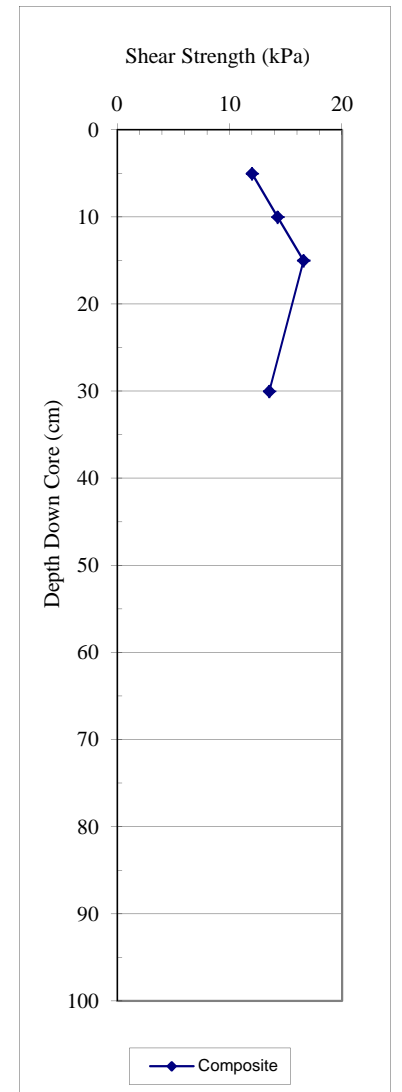
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
30.0	13.53

Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	5	11.99
10	14.28	
15	16.56	1.26
30.0	13.53	



Cruise No: 2007802

Station: 39

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.24	2.09	41.89	6.9 Y	4.1/.3
10	0.22	2.5	39.07	7.5 Y	3.8/.4
15	0.5	3.07	40.6	5.8 Y	3.9/.4

Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
5	1546.16
6	1539.178
7	1541.92
8	1543.192
9	1544.401
10	1549.254
11	1551.692
12	1551.692
13	1551.849
14	1551.849
15	1550.786
16	1547.294
17	1545.341
18	1542.924
19	1541.049
20	1550



Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
6	1439.85		10.59
14	1513.83		10.87

Cruise No: 2007802

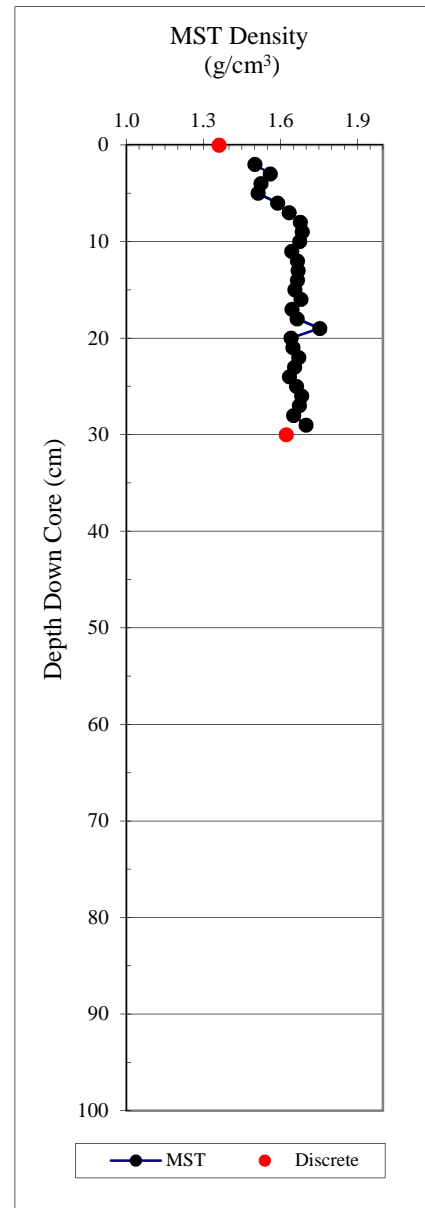
Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4995	0.025	0.02
3	1.5593	0.050	0.07
4	1.5231	0.050	0.12
5	1.5123	0.050	0.17
6	1.5885	0.055	0.23
7	1.6332	0.060	0.29
8	1.6768	0.063	0.35
9	1.6842	0.064	0.42
10	1.675	0.063	0.48
11	1.6433	0.062	0.54
12	1.6655	0.062	0.60
13	1.6686	0.063	0.67
14	1.6657	0.063	0.73
15	1.6557	0.063	0.79
16	1.6796	0.063	0.86
17	1.644	0.062	0.92
18	1.6638	0.064	0.98
19	1.7526	0.067	1.05
20	1.6406	0.063	1.11
21	1.6488	0.062	1.17
22	1.6706	0.063	1.24
23	1.6548	0.062	1.30
24	1.6347	0.061	1.36
25	1.6623	0.062	1.42
26	1.6818	0.064	1.49
27	1.6728	0.063	1.55
28	1.6501	0.063	1.61
29	1.6998	0.023	1.64
30			

average 1.643



Cruise No: 2007802

Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.360	0.556	78.531	2.590	3.658	59.122	144.631
** 30.0	1.622	0.972	63.506	2.663	1.740	40.090	66.918

Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	15
7	16
8	16
9	17
10	17
11	17
12	18
13	17
14	17
15	18
16	19
17	20
18	21
19	21
20	20
21	19
22	18
23	18
24	17
25	16

Cruise No: 2007802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.743
2	1.571
3	1.282
4	0.976
5	0.774
6	0.670
7	0.619
8	0.595
9	0.584
10	0.583
11	0.587
12	0.593
13	0.601
14	0.606
15	0.611
16	0.614
17	0.613
18	0.613
19	0.611
20	0.607
21	0.605
22	0.605
23	0.608
24	0.616
25	0.625
26	0.641
27	0.668
28	0.713
29	0.798
30	0.958

Cruise No: 2007802

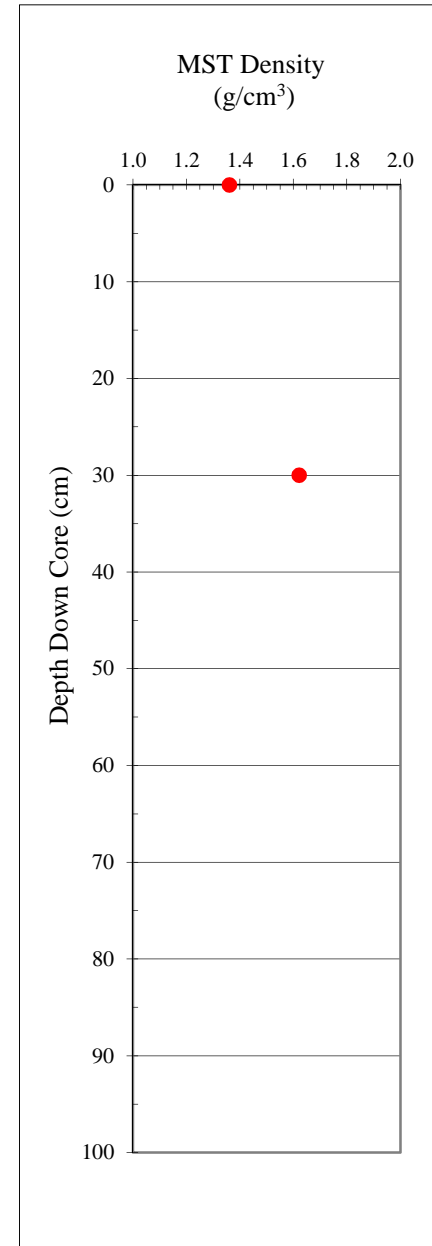
Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

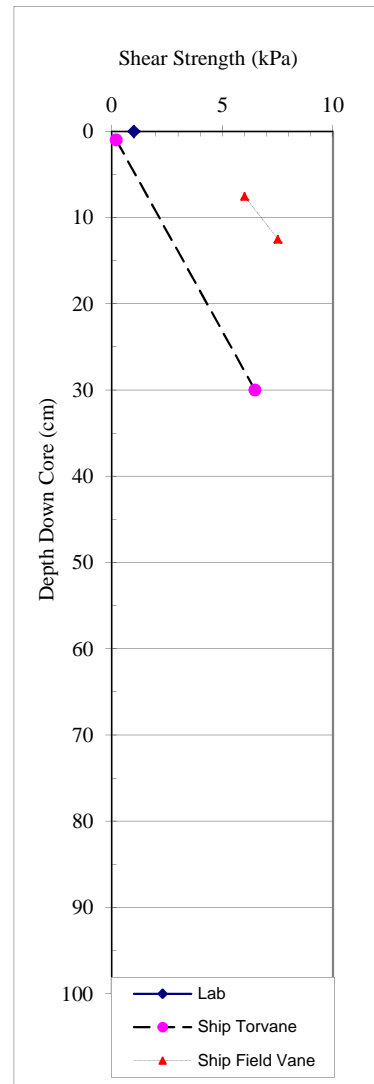
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.360	0.556	78.531	2.590	3.658	59.122	144.631
** 30.0	1.622	0.972	63.506	2.663	1.740	40.090	66.918



Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u>	<u>Remoulded</u>	
<u>Depth Down</u>	<u>Undrained</u>	<u>Undrained</u>	
<u>Core (cm)</u>	<u>Shear Shear</u>	<u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
NA	NA	NA	NA



Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Torvane

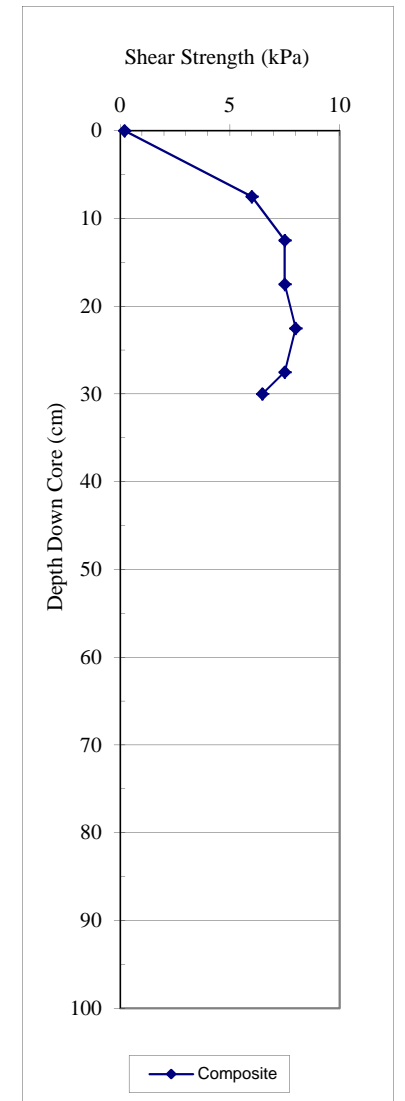
	<u>Undrained</u>
<u>Depth</u>	<u>Shear</u>
<u>Down</u>	<u>Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
1.0	0.20
30.0	6.47

Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u>
<u>Depth</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
7.5	6.00
12.5	7.50
17.5	7.50
22.5	8.00
27.5	7.50

Composite

	<u>Peak</u>	<u>Remoulded</u>
<u>Depth</u>	<u>Undrained</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>
0.0	0.20	
7.5	6.00	
12.5	7.50	
17.5	7.50	
22.5	8.00	
27.5	7.50	
30.0	6.47	



Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
NA	NA	NA	NA	NA

Cruise No: 2007802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1497.847
3	1490.222
4	1489.762
5	1500.45
6	1495.567
7	1506.026
8	1509.258
9	1509.648
10	1507.492
11	1506.646
12	1504.653
13	1502.666
14	1501.826
15	1504.421
16	1505.721
17	1507.176
18	1513.103
19	1521.263
20	1514.264
21	1503.732
22	1504.421
23	1505.263
24	1504.958
25	1502.361
26	1504.348
27	1506.575
28	1507.61
29	1512.169
30	1520.632

Cruise No: 2007802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
NA	NA	NA	NA

Cruise No: 2007802

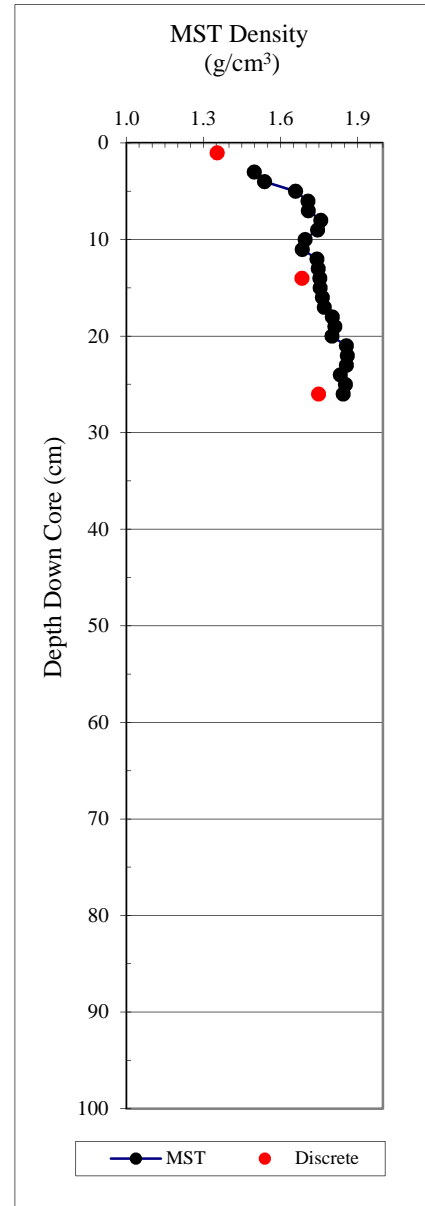
Station: 41

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.4979	0.024	0.02
4	1.5377	0.052	0.08
5	1.6583	0.060	0.14
6	1.7068	0.066	0.20
7	1.7077	0.068	0.27
8	1.757	0.070	0.34
9	1.7439	0.070	0.41
10	1.6958	0.067	0.48
11	1.6844	0.066	0.54
12	1.7418	0.069	0.61
13	1.7463	0.071	0.68
14	1.7529	0.071	0.76
15	1.7541	0.072	0.83
16	1.7634	0.072	0.90
17	1.7707	0.074	0.97
18	1.8011	0.076	1.05
19	1.8114	0.077	1.13
20	1.8006	0.078	1.20
21	1.8566	0.080	1.28
22	1.8596	0.082	1.37
23	1.8568	0.081	1.45
24	1.8333	0.080	1.53
25	1.8523	0.081	1.61
26	1.8441	0.170	1.78

average 1.751



Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.353	0.657	67.955	2.051	2.121	51.425	105.866
14.0	1.684	1.027	64.166	2.865	1.791	39.027	64.008
** 26.0	1.748	1.172	56.257	2.679	1.286	32.954	49.152

Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	15
7	17
8	19
9	19
10	20
11	20
12	20
13	21
14	21
15	21
16	22
17	22
18	22
19	22
20	23
21	23

Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
2	1.743
3	1.589
4	1.337
5	1.053
6	0.842
7	0.733
8	0.679
9	0.648
10	0.632
11	0.623
12	0.618
13	0.614
14	0.613
15	0.613
16	0.617
17	0.620
18	0.625
19	0.630
20	0.637
21	0.642
22	0.651
23	0.670
24	0.703
25	0.758
26	0.861

Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.353	0.657	67.955	2.051	2.121	51.425	105.866
14.0	1.684	1.027	64.166	2.865	1.791	39.027	64.008
** 26.0	1.748	1.172	56.257	2.679	1.286	32.954	49.152

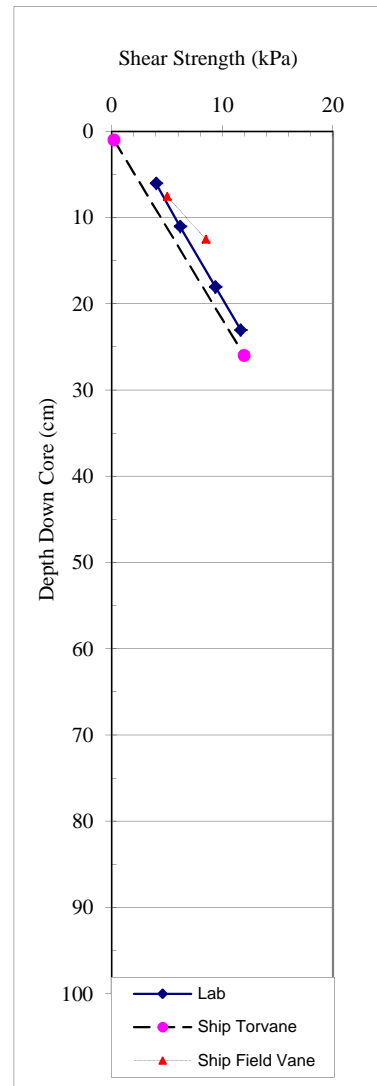
Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
6	4.00	1.83	2.19
11	6.17		
18	9.37	5.60	1.67
23	11.65		



Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
26.0	11.96

Cruise No: 2007802

Station: 41

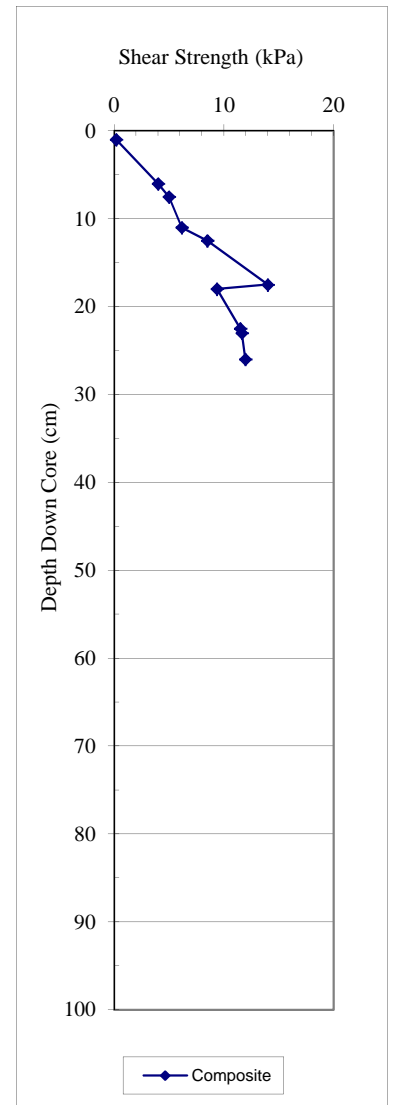
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	5.00
12.5	8.50
17.5	14.00
22.5	11.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
6	4.00	4.83
7.5	5.00	
11	6.17	
12.5	8.50	
17.5	14.00	
18	9.37	5.60
22.5	11.50	
23	11.65	
26.0	11.96	



Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.27	2.14	44.23	6.4 Y	4.3/.3
10	0.1	1.92	43.85	7.9 Y	4.2/.3
15	0.13	2.24	41.13	7.9 Y	4.0/.3
20	0.18	2.22	39.43	7.8 Y	3.8/.3

Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	
1	
2	
3	1473.185
4	1492.03
5	1490.526
6	1495.296
7	1495.448
8	1495.122
9	1492.694
10	1490.274
11	1486.667
12	1493.536
13	1497.486
14	1497.565
15	1497.034
16	1498.63
17	1501.372
18	1506.422
19	1510.345
20	1513.123
21	1514.439
22	1518.952
23	1523.279
24	1518.519
25	1514.22
26	1520.246
27	1506.575
28	1507.61
29	1512.169
30	1520.632

Cruise No: 2007802

Station: 41

Sample Type: ***Push Core***

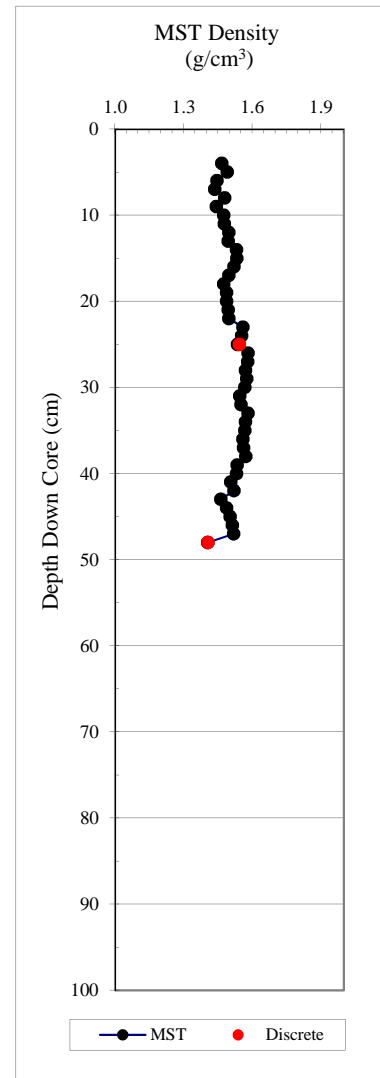
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1467.43		10.64
18	1490.27		10.89

Cruise No: 2007802
 Station: 42
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 42
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4633	0.021	0.02
3	1.4528	0.043	0.06
4	1.4668	0.044	0.11
5	1.4913	0.044	0.15
6	1.4462	0.042	0.19
7	1.4359	0.042	0.24
8	1.4795	0.043	0.28
9	1.4425	0.043	0.32
10	1.4746	0.044	0.36
11	1.4781	0.045	0.41
12	1.4981	0.046	0.46
13	1.4954	0.047	0.50
14	1.5315	0.049	0.55
15	1.533	0.050	0.60
16	1.5206	0.048	0.65
17	1.497	0.046	0.70
18	1.4757	0.045	0.74
19	1.4882	0.045	0.79
20	1.4884	0.046	0.83
21	1.4944	0.046	0.88
22	1.4982	0.048	0.93
23	1.5597	0.051	0.98
24	1.5542	0.052	1.03
25	1.5348	0.052	1.08
26	1.5815	0.053	1.13
27	1.5796	0.054	1.19
28	1.5697	0.054	1.24
29	1.5753	0.054	1.30
30	1.5673	0.053	1.35
31	1.5457	0.052	1.40
32	1.5501	0.052	1.45
33	1.5822	0.054	1.51
34	1.5707	0.054	1.56
35	1.5682	0.053	1.61
36	1.5591	0.053	1.67
37	1.5624	0.053	1.72
38	1.5716	0.053	1.77
39	1.5336	0.051	1.82
40	1.5313	0.049	1.87
41	1.5056	0.048	1.92
42	1.52	0.047	1.97
43	1.4625	0.045	2.01
44	1.4879	0.045	2.06
45	1.5034	0.047	2.10
46	1.5135	0.048	2.15
47	1.5192	0.046	2.20
48	1.4056	0.778	2.98



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25.0	1.544	0.807	71.993	2.881	2.571	47.744	91.365
48.0	1.406	0.688	70.178	2.306	2.353	51.097	104.485

Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	9
6	10
7	10
8	10
9	11
10	12
11	12
12	12
13	12
14	12
15	13
16	12
17	12
18	12
19	12
20	13
21	13
22	13
23	12
24	13
25	13
26	13
27	13
28	14
29	14
30	14
31	14
32	14
33	14
34	14
35	14
36	14
37	14
38	13
39	13
40	12
41	12
42	12
43	12

Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.650
2	1.501
3	1.225
4	0.929
5	0.737
6	0.634
7	0.586
8	0.561
9	0.550
10	0.547
11	0.549
12	0.553
13	0.558
14	0.562
15	0.566
16	0.568
17	0.568
18	0.568
19	0.568
20	0.568
21	0.568
22	0.568
23	0.568
24	0.569
25	0.571
26	0.572
27	0.574
28	0.573
29	0.575
30	0.577
31	0.577
32	0.578
33	0.579
34	0.592
35	0.596
36	0.599
37	0.603
38	0.606
39	0.606
40	0.606
41	0.605
42	0.604
43	0.605
44	0.608
45	0.618
46	0.637
47	0.674
48	0.749

Cruise No: 2007802

Station: 42

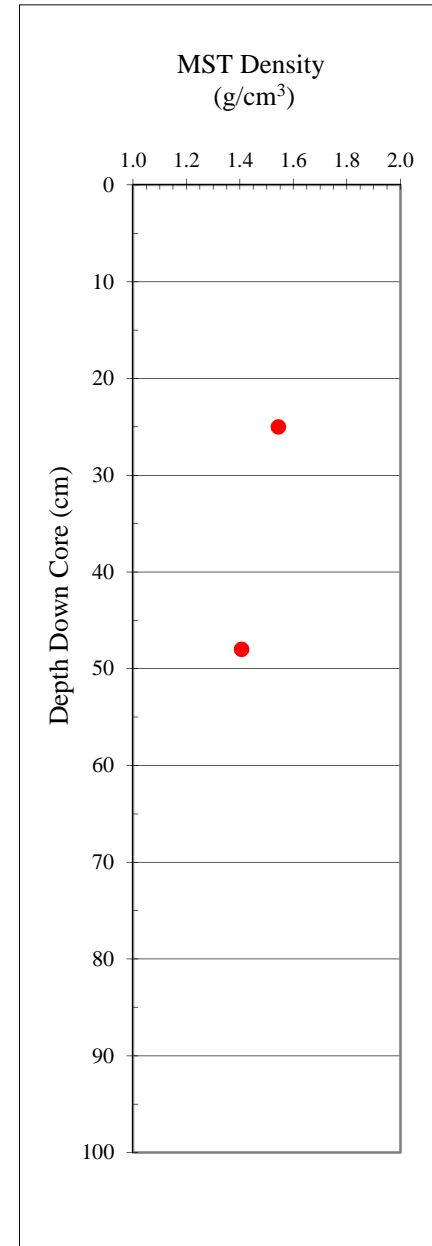
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25.0	1.544	0.807	71.993	2.881	2.571	47.744	91.365
48.0	1.406	0.688	70.178	2.306	2.353	51.097	104.485

**



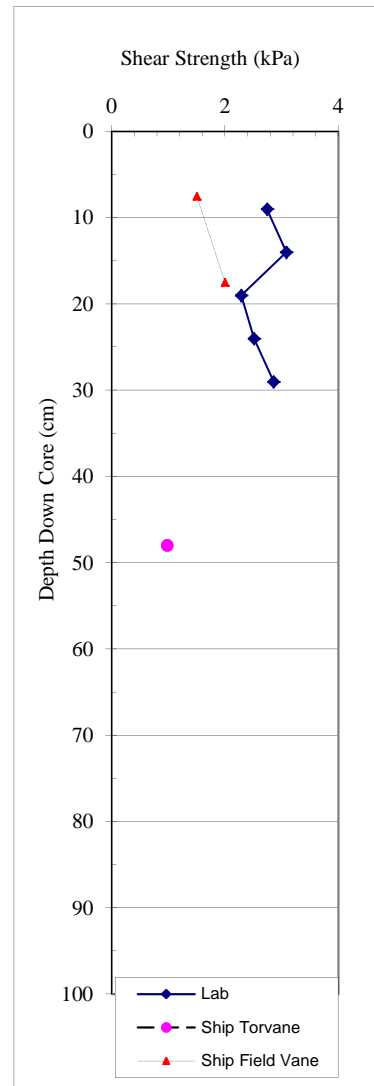
Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
9	2.74	2.40	1.14
14	3.08		
19	2.28	2.17	1.05
24	2.51		
29	2.86	1.71	1.67
34	3.88		
39	3.88	2.17	1.79
44	3.43		



Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
	48

Cruise No: 2007802

Station: 42

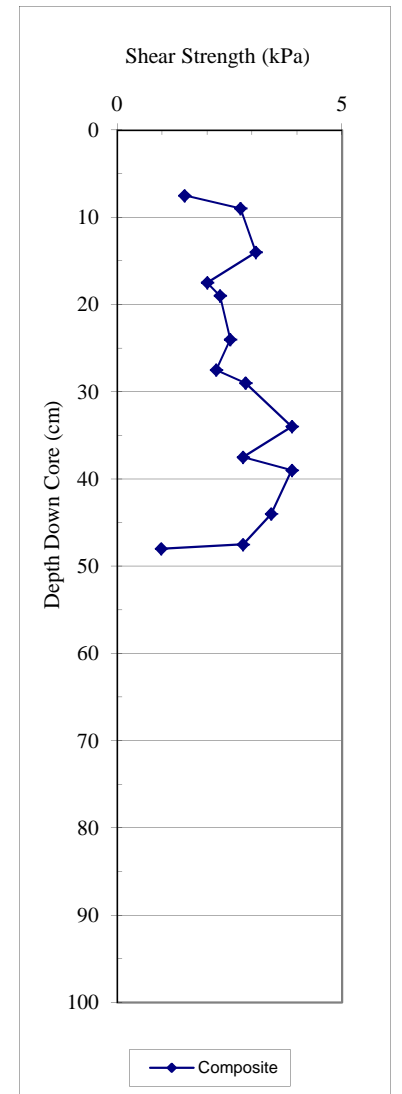
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	7.5
17.5	2.00
27.5	2.20
37.5	2.80
47.5	2.80

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	7.5	1.50
9	2.74	2.40
14	3.08	
17.5	2.00	
19	2.28	2.17
24	2.51	
27.5	2.20	
29	2.86	1.71
34	3.88	
37.5	2.80	
39	3.88	2.17
44	3.43	
47.5	2.80	
48	0.98	



Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	2.39	7.92	39.76	3.3 Y	3.8/1.1
10	1.86	6.92	39.89	3.9 Y	3.8/1.0
15	1.39	5.4	37.38	4.3 Y	3.6/8
20	0.91	4.18	38.9	4.7 Y	3.8/6
25	1.44	4.98	42.82	3.3 Y	4.1/7
30	1.65	6.24	38.95	4.0 Y	3.7/9
35	0.93	4.5	37.59	5.0 Y	3.6/6
40	0.29	3.02	36.23	7.6 Y	3.5/5
45	0.46	3.21	38.64	6.4 Y	3.7/5

Cruise No: 2007802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1483.92
3	1478.26
4	1481.72
5	1497.00
6	1501.21
7	1497.27
8	1494.47
9	1493.33
10	1491.07
11	1492.20
12	1491.07
13	1494.31
14	1496.28
15	1498.10
16	1500.08
17	1496.35
18	1494.76
19	1495.59
20	1495.59
21	1495.44
22	1496.58
23	1498.86
24	1500.00
25	1498.86
26	1498.86
27	1500.00
28	1500.00
29	1500.00
30	1500.00
31	1498.86
32	1497.72
33	1498.17
34	1497.80
35	1497.11
36	1497.72
37	1497.04
38	1495.53
39	1494.02
40	1493.80
41	1492.45
42	1490.95
43	1494.86
44	1495.00
45	1489.14
46	1494.81
47	1489.05
48	1508.63

Cruise No: 2007802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1439.85		9.98
20	1445.28		10.22
30	1445.28		10.5
40	1445.28		10.67

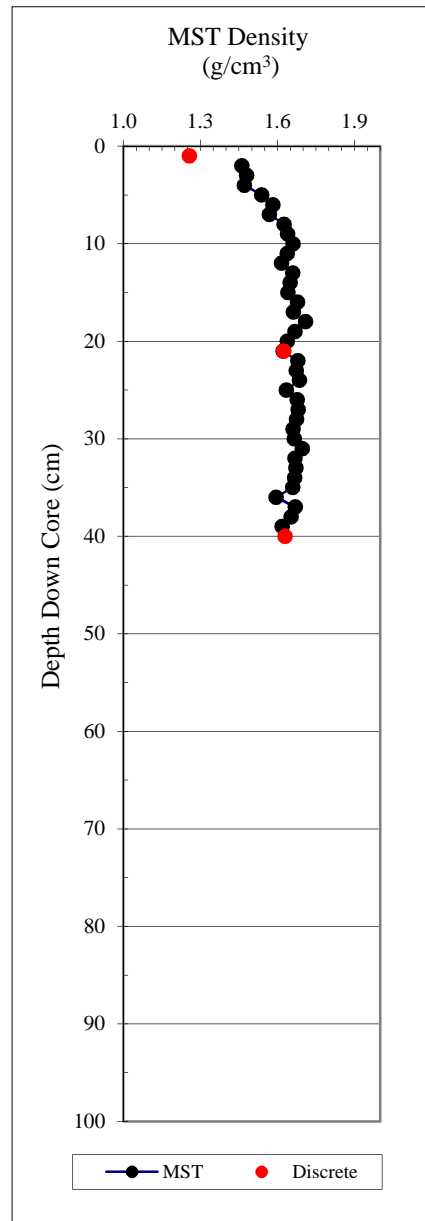
Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4609	0.022	0.02
3	1.48	0.044	0.07
4	1.4709	0.046	0.11
5	1.538	0.050	0.16
6	1.5826	0.053	0.21
7	1.5686	0.055	0.27
8	1.6263	0.058	0.33
9	1.6401	0.061	0.39
10	1.6608	0.061	0.45
11	1.6388	0.060	0.51
12	1.6156	0.060	0.57
13	1.6594	0.061	0.63
14	1.6494	0.061	0.69
15	1.6413	0.062	0.75
16	1.6787	0.063	0.82
17	1.6624	0.064	0.88
18	1.7095	0.065	0.95
19	1.6682	0.063	1.01
20	1.6389	0.061	1.07
21	1.622	0.060	1.13
22	1.6789	0.063	1.19
23	1.6726	0.064	1.26
24	1.6861	0.063	1.32
25	1.6343	0.062	1.38
26	1.677	0.063	1.45
27	1.6804	0.064	1.51
28	1.675	0.064	1.57
29	1.6602	0.063	1.64
30	1.6663	0.064	1.70
31	1.6975	0.065	1.77
32	1.6684	0.064	1.83
33	1.672	0.063	1.89
34	1.6668	0.063	1.96
35	1.659	0.061	2.02
36	1.595	0.059	2.08
37	1.6694	0.061	2.14
38	1.6537	0.061	2.20
39	1.6183	0.441	2.64



Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

**

Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.256	0.493	74.524	1.936	2.925	60.743	154.733
21.0	1.625	0.941	66.765	2.831	2.009	42.085	72.667
** 40.0	1.630	0.994	62.101	2.622	1.639	39.021	63.990

Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	12
6	13
7	14
8	15
9	16
10	16
11	16
12	17
13	17
14	16
15	17
16	18
17	18
18	18
19	17
20	17
21	17
22	18
23	17
24	17
25	18
26	17
27	18
28	18
29	17
30	17
31	18
32	18
33	17
34	17
35	16

Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.718
2	1.552
3	1.282
4	0.985
5	0.785
6	0.681
7	0.632
8	0.613
9	0.607
10	0.607
11	0.610
12	0.616
13	0.622
14	0.628
15	0.629
16	0.630
17	0.634
18	0.638
19	0.642
20	0.645
21	0.648
22	0.648
23	0.646
24	0.646
25	0.646
26	0.648
27	0.651
28	0.652
29	0.653
30	0.655
31	0.655
32	0.655
33	0.655
34	0.653
35	0.658
36	0.668
37	0.689
38	0.731
39	0.811
40	0.967

Cruise No: 2007802

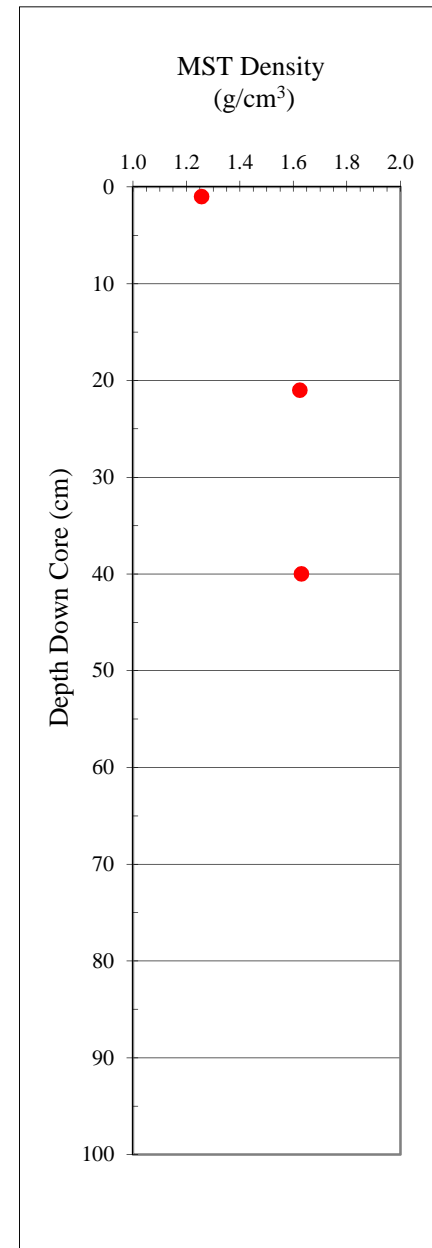
Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.256	0.493	74.524	1.936	2.925	60.743	154.733
21.0	1.625	0.941	66.765	2.831	2.009	42.085	72.667
** 40.0	1.630	0.994	62.101	2.622	1.639	39.021	63.990



Cruise No: 2007802

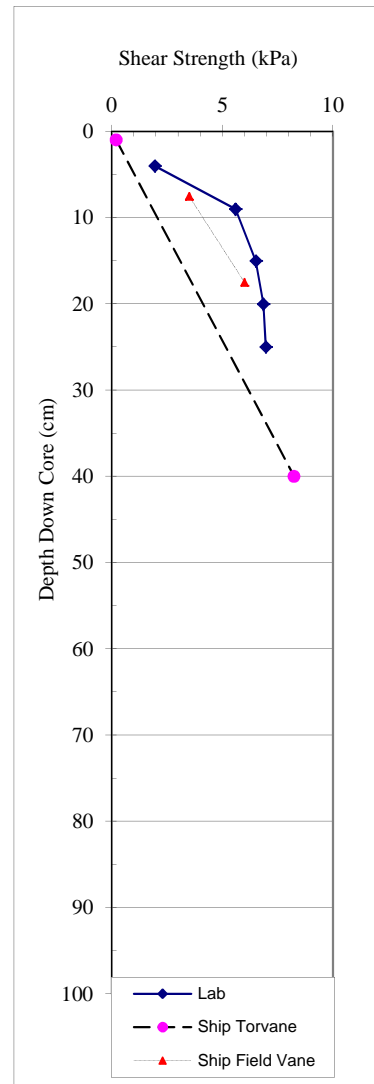
Station: 43

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	1.94		
9	5.60	3.43	1.63
15	6.51		
20	6.85	2.86	2.40
25	6.97		
30	7.88	3.66	2.16
35	6.85		
37	9.14	2.97	3.08

Disturbed Uneven Surface



Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
40	8.24

Cruise No: 2007802

Station: 43

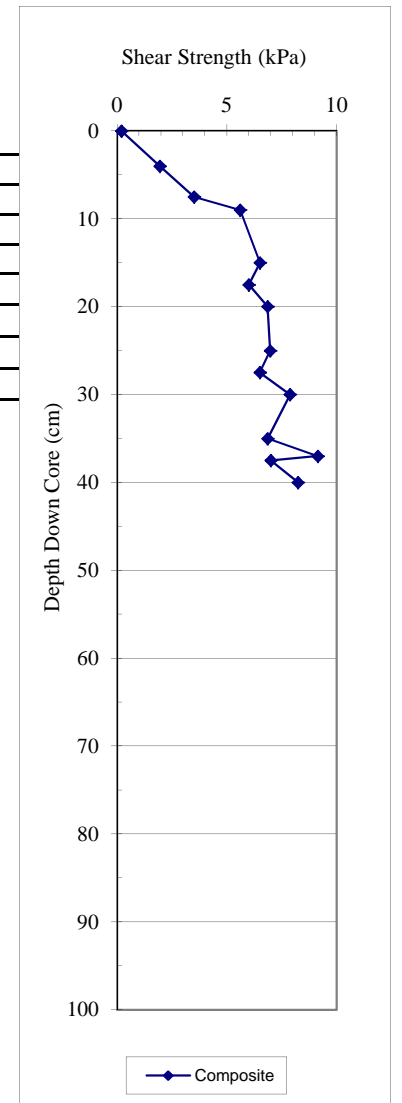
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	3.50
17.5	6.00
27.5	6.50
37.5	7.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
4	1.94	
7.5	3.50	
9	5.60	3.43
15	6.51	
17.5	6.00	
20	6.85	2.86
25	6.97	
27.5	6.50	
30	7.88	3.66
35	6.85	
37	9.14	2.97
37.5	7.00	
40	8.24	



Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.91	4.3	38.59	4.9 Y	3.7/.6
10	0.26	3.1	37.39	7.8 Y	3.6/.5
15	0.25	2.84	38.87	7.7 Y	3.8/.4
20	0.48	3.61	38.39	6.7 Y	3.7/.5
25	0.35	3.36	38.28	7.3 Y	3.7/.5
30	0.03	2.13	36.17	8.9 Y	3.5/.3
35	0.26	2.96	37.8	7.7 Y	3.7/.4

Cruise No: 2007802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1499.11
3	1462.936
4	1451.841
5	1484.062
6	1482.196
7	1488.441
8	1491.181
9	1491.997
10	1494.232
11	1491.997
12	1489.769
13	1491.997
14	1493.114
15	1493.114
16	1492.964
17	1496.474
18	1497.598
19	1498.198
20	1493.862
21	1493.343
22	1493.792
23	1494.241
24	1494.54
25	1494.69
26	1494.989
27	1496.557
28	1496.557
29	1496.557
30	1497.678
31	1498.801
32	1501.051
33	1502.029
34	1504.289
35	1500.901
36	1504.138
37	1506.184
38	1502.934
39	1506.526
40	1512.855

Cruise No: 2007802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1448.01		9.58
18	1456.27		9.79
30	1461.83		9.94

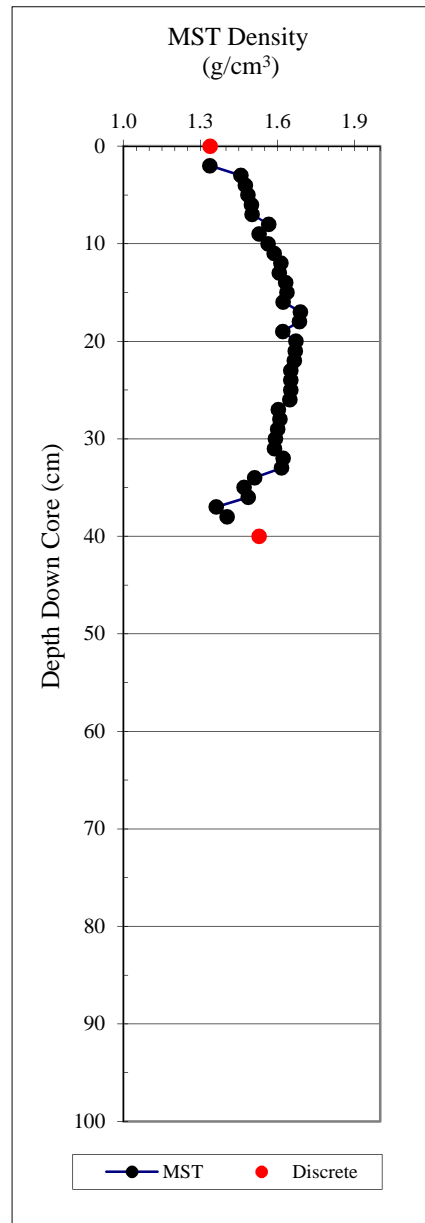
Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1			
2	1.3369	0.001	0.00
3	1.4578	0.040	0.04
4	1.4752	0.044	0.08
5	1.4847	0.045	0.13
6	1.4985	0.046	0.18
7	1.5016	0.048	0.22
8	1.566	0.051	0.28
9	1.5286	0.051	0.33
10	1.5632	0.053	0.38
11	1.5876	0.055	0.43
12	1.6136	0.057	0.49
13	1.6066	0.058	0.55
14	1.6317	0.059	0.61
15	1.6373	0.060	0.67
16	1.6223	0.061	0.73
17	1.6899	0.064	0.79
18	1.6859	0.063	0.86
19	1.6208	0.061	0.92
20	1.6724	0.062	0.98
21	1.6694	0.063	1.04
22	1.6655	0.063	1.11
23	1.6515	0.062	1.17
24	1.6522	0.062	1.23
25	1.6526	0.062	1.29
26	1.6487	0.060	1.35
27	1.6036	0.058	1.41
28	1.6101	0.057	1.47
29	1.6008	0.057	1.52
30	1.5918	0.056	1.58
31	1.5879	0.056	1.64
32	1.6219	0.058	1.69
33	1.6163	0.056	1.75
34	1.5111	0.049	1.80
35	1.4706	0.045	1.84
36	1.4863	0.042	1.89
37	1.3612	0.037	1.92
38	1.4036	0.618	2.54



Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.338	0.505	81.366	2.708	4.366	62.282	165.123
** 40.00	1.529	0.850	66.301	2.523	1.967	44.403	79.867

Cruise No: 2007802

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	10
6	10
7	11
8	12
9	13
10	13
11	13
12	14
13	10
14	14
15	15
16	15
17	15
18	16
19	15
20	15
21	15
22	15
23	15
24	15
25	15
26	15
27	15
28	14
29	14
30	14
31	13
32	13
33	13

Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.695
2	1.485
3	1.166
4	0.884
5	0.715
6	0.632
7	0.593
8	0.575
9	0.568
10	0.566
11	0.566
12	0.568
13	0.572
14	0.577
15	0.582
16	0.590
17	0.594
18	0.597
19	0.599
20	0.602
21	0.603
22	0.603
23	0.603
24	0.603
25	0.603
26	0.603
27	0.602
28	0.601
29	0.599
30	0.596
31	0.593
32	0.592
33	0.591
34	0.593
35	0.602
36	0.624
37	0.670
38	0.755

Cruise No: 2007802

Station: 44

Sample Type: Push Core

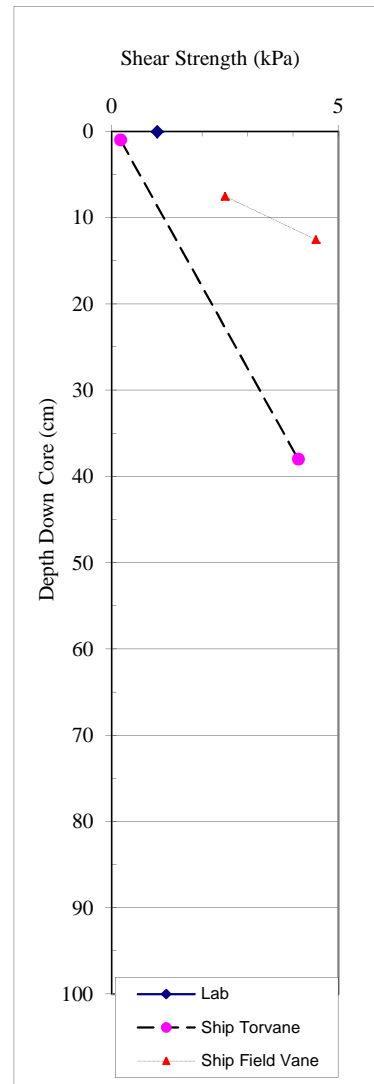
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.338	0.505	81.366	2.708	4.366	62.282	165.123
** 40.00	1.529	0.850	66.301	2.523	1.967	44.403	79.867

Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u>	<u>Remoulded</u>	
<u>Depth Down</u>	<u>Undrained</u>	<u>Undrained</u>	
<u>Core (cm)</u>	<u>Shear Shear</u>	<u>Shear Shear</u>	<u>Sensitivity</u>
NA	NA	NA	NA



Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Shipboard Torvane

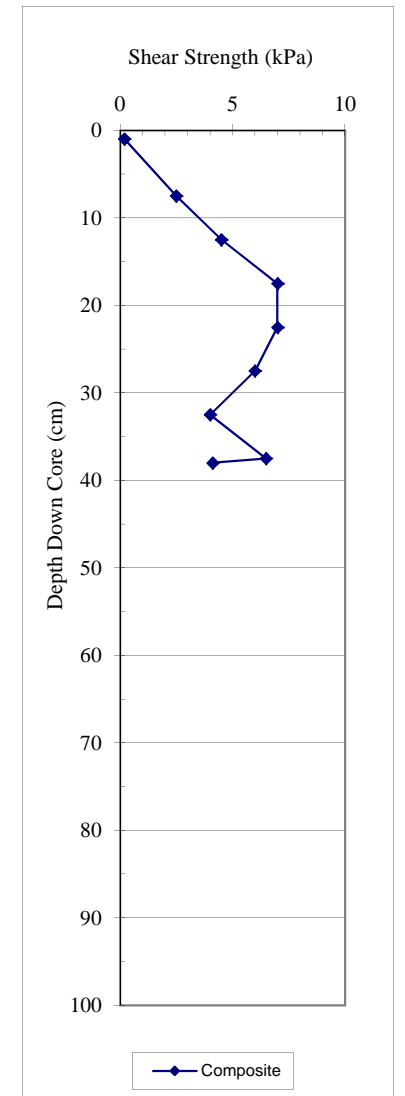
	<u>Undrained</u>
<u>Depth</u>	<u>Shear</u>
<u>Down</u>	<u>Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
1.0	0.20
38	4.12

Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u>
<u>Depth</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
7.5	2.50
12.5	4.50
17.5	7.00
22.5	7.00
27.5	6.00
32.5	4.00
37.5	6.50

Composite

	<u>Peak</u>	<u>Remoulded</u>
<u>Depth</u>	<u>Undrained</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>
1.0	0.20	
7.5	2.50	
12.5	4.50	
17.5	7.00	
22.5	7.00	
27.5	6.00	
32.5	4.00	
37.5	6.50	
38.0	4.12	



Cruise No: 2007802

Station: 44

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
NA	NA	NA	NA	NA

Cruise No: 2007802

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	
1	
2	1463.243
3	1476.729
4	1468.394
5	1484.424
6	1483.22
7	1485.325
8	1484.051
9	1485.023
10	1485.693
11	1486.667
12	1487.794
13	1488.922
14	1489.074
15	1491.337
16	1491.337
17	1492.471
18	1493.912
19	1490.964
20	1489.158
21	1493.992
22	1488.333
23	1486.233
24	1490.895
25	1492.027
26	1493.313
27	1491.047
28	1494.449
29	1491.047
30	1489.917
31	1487.661
32	1488.788
33	1489.917
34	1488.788
35	1486.384
36	1487.273
37	1478.176
38	1483.495

Cruise No: 2007802

Station: 44

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
NA	NA	NA	NA

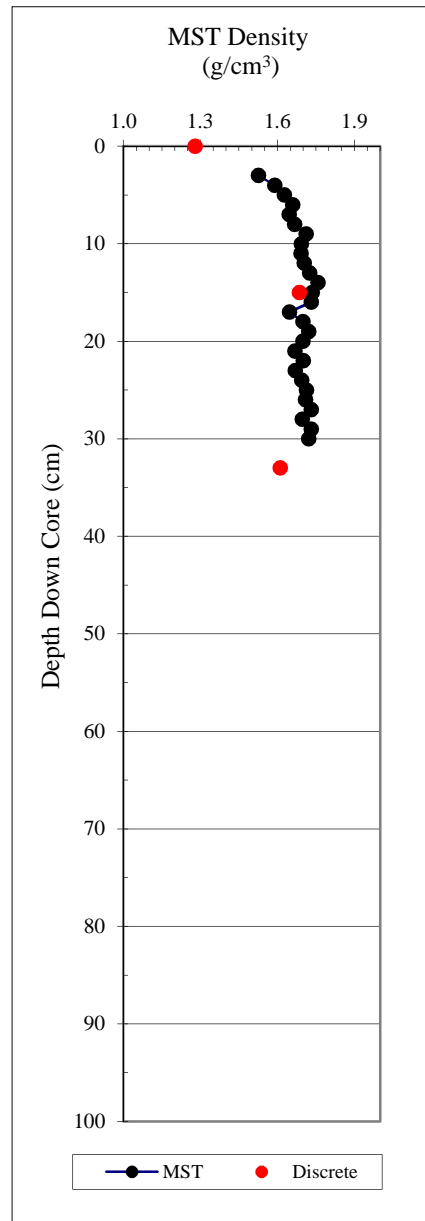
Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.5256	1.4716	1.47
4	1.5892	1.5256	3.00
5	1.6274	1.5892	4.59
6	1.6593	1.6274	6.21
7	1.6458	1.6593	7.87
8	1.667	1.6458	9.52
9	1.7118	1.667	11.19
10	1.6936	1.7118	12.90
11	1.6922	1.6936	14.59
12	1.7047	1.6922	16.28
13	1.7254	1.7047	17.99
14	1.7582	1.7254	19.71
15	1.7353	1.7582	21.47
16	1.7316	1.7353	23.21
17	1.6465	1.7316	24.94
18	1.6989	1.6465	26.59
19	1.7224	1.6989	28.28
20	1.6998	1.7224	30.01
21	1.6686	1.6998	31.71
22	1.7007	1.6686	33.37
23	1.6699	1.7007	35.08
24	1.6938	1.6699	36.75
25	1.7137	1.6938	38.44
26	1.7098	1.7137	40.15
27	1.732	1.7098	41.86
28	1.6969	1.732	43.59
29	1.7324	1.6969	45.29
30	1.7219	1.7324	47.02
31	1.4525	1.7219	48.75
32	1.2422	1.4525	50.20
33	1.201		



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

**

Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.279	0.491	77.011	2.135	3.350	61.635	160.656
15.0	1.686	1.034	63.613	2.842	1.748	38.646	62.989
** 33.0	1.611	0.973	62.307	2.582	1.653	39.601	65.566

Cruise No: 2007802

Station: 45

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	14
6	15
7	16
8	17
9	17
10	17
11	18
12	18
13	18
14	18
15	18
16	18
17	18
18	18
19	17
20	18
21	17
22	18
23	18
24	17
25	17
26	18
27	18
28	17

Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.743
2	1.571
3	1.253
4	0.962
5	0.774
6	0.676
7	0.632
8	0.614
9	0.612
10	0.614
11	0.620
12	0.627
13	0.630
14	0.633
15	0.634
16	0.634
17	0.634
18	0.634
19	0.633
20	0.633
21	0.636
22	0.638
23	0.641
24	0.640
25	0.638
26	0.638
27	0.640
28	0.644
29	0.652
30	0.671
31	0.710
32	0.781
33	0.913

Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.279	0.491	77.011	2.135	3.350	61.635	160.656
15.0	1.686	1.034	63.613	2.842	1.748	38.646	62.989
** 33.0	1.611	0.973	62.307	2.582	1.653	39.601	65.566

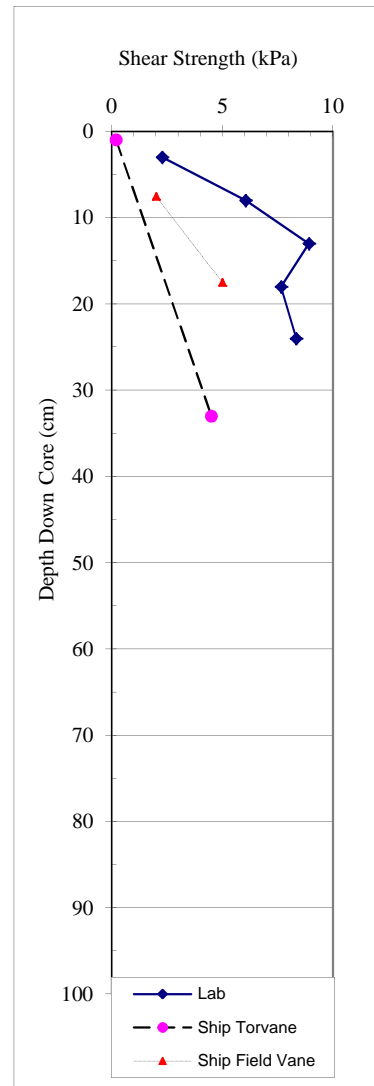
Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.28		
8	6.05	3.20	1.89
13	8.91		
18	7.65	1.83	4.19
24	8.34		
29	9.82	2.40	4.10



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
33	4.51

Cruise No: 2007802

Station: 45

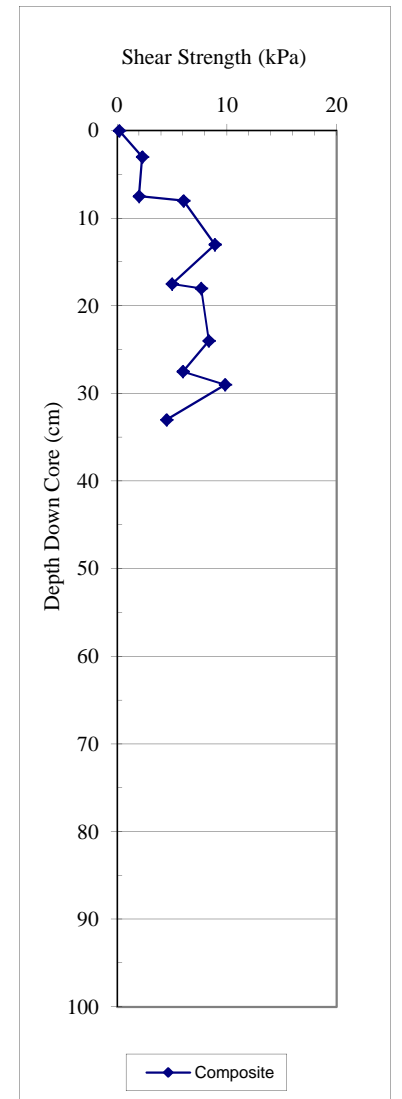
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	2.00
17.5	5.00
27.5	6.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
3	2.28	
7.5	2.00	
8	6.05	3.20
13	8.91	
17.5	5.00	
18	7.65	1.83
24	8.34	
27.5	6.00	
29	9.82	2.40
33	4.51	



Cruise No: 2007802

Station: 45

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.28	2.44	39.9	7.3 Y 3.9/.4
10	0.01	1.63	42.89	8.8 Y 4.2/.2
15	0.1	2.45	36.21	8.5 Y 3.5/.4
20	-0.06	1.6	37.76	9.6 Y 3.7/.3
25	0.02	2.04	37.79	8.9 Y 3.7/.3
30	-0.01	2.28	37.93	9.0 Y 3.7/.4

Cruise No: 2007802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1482.7
4	1479.1
5	1512.8
6	1510.5
7	1510.2
8	1511.0
9	1513.3
10	1514.5
11	1515.7
12	1516.8
13	1519.1
14	1521.5
15	1520.3
16	1515.7
17	1511.0
18	1512.2
19	1513.3
20	1512.2
21	1509.9
22	1511.0
23	1511.0
24	1510.0
25	1512.5
26	1515.0
27	1517.3
28	1517.3
29	1517.3
30	1519.4
31	1520.6
32	1518.5
33	1531.8

Cruise No: 2007802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1461.83		7.74
24	1464.62		7.98

Cruise No: 2007802

Station: 60

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

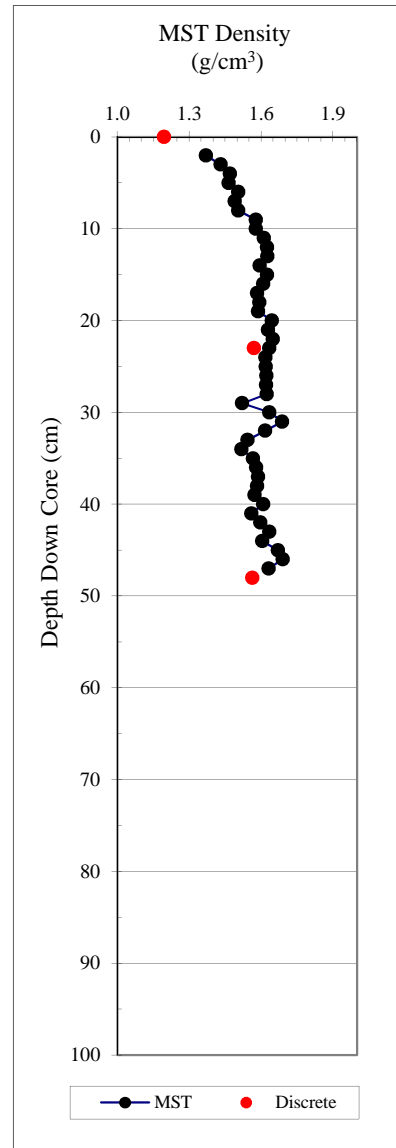
Station: 60

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.370
3	1.431
4	1.469
5	1.465
6	1.505
7	1.490
8	1.505
9	1.578
10	1.579
11	1.612
12	1.625
13	1.626
14	1.594
15	1.625
16	1.609
17	1.584
18	1.593
19	1.588
20	1.645
21	1.629
22	1.649
23	1.634
24	1.618
25	1.619
26	1.622
27	1.621
28	1.624
29	1.521
30	1.635
31	1.688
32	1.617
33	1.544
34	1.518
35	1.566
36	1.580
37	1.587
38	1.583
39	1.573
40	1.608
41	1.559
42	1.596
43	1.634
44	1.605
45	1.670
46	1.690
47	1.632



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.195	0.415	76.148	1.740	3.193	65.270	187.937
23	1.570	0.866	68.760	2.773	2.201	44.837	81.281
** 48	1.564	0.914	63.501	2.503	1.740	41.583	71.182

Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	7.00
4	9.00
5	10.00
6	11.00
7	12.00
8	14.00
9	14.00
10	14.00
11	15.00
12	16.00
13	16.00
14	16.00
15	16.00
16	16.00
17	15.00
18	15.00
19	16.00
20	16.00
21	16.00
22	16.00
23	16.00
24	17.00
25	16.00
26	17.00
27	16.00
28	17.00
29	17.00
30	17.00
31	16.00
32	17.00
33	16.00
34	16.00
35	16.00
36	15.00
37	16.00
38	15.00
39	16.00
40	15.00
41	15.00
42	15.00
43	15.00
44	14.00
45	14.00
46	13.00
47	11.00
48	8.00

Cruise No: 2007802

Station: 60

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.775
2	1.657
3	1.321
4	0.964
5	0.746
6	0.637
7	0.586
8	0.565
9	0.559
10	0.560
11	0.563
12	0.570
13	0.578
14	0.587
15	0.596
16	0.603
17	0.607
18	0.609
19	0.609
20	0.610
21	0.612
22	0.614
23	0.614
24	0.615
25	0.614
26	0.612
27	0.610
28	0.608
29	0.605
30	0.601
31	0.595
32	0.592
33	0.592
34	0.592
35	0.590
36	0.589
37	0.589
38	0.591
39	0.595
40	0.598
41	0.599
42	0.602
43	0.609
44	0.624
45	0.649
46	0.689
47	0.759
48	0.887

Cruise No: 2007802

Station: 60

Sample Type: Push Core

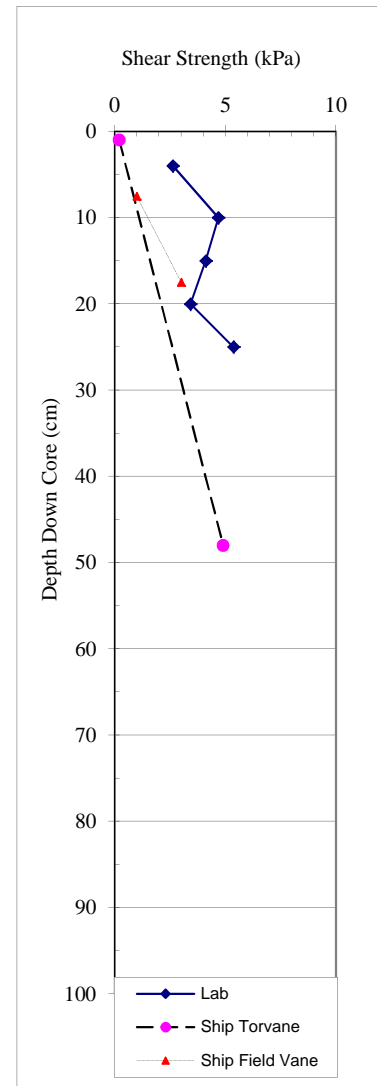
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.195	0.415	76.148	1.740	3.193	65.270	187.937
23	1.570	0.866	68.760	2.773	2.201	44.837	81.281
** 48	1.564	0.914	63.501	2.503	1.740	41.583	71.182

Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	2.63	2.63	1.00
10	4.68	2.40	1.95
15	4.11		
20	3.43	1.14	3.00
25	5.37	1.60	3.36
30	5.25	1.71	3.07
35	3.77	0.91	4.12
40	3.54	1.00	3.56
45	6.42		



Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Shipboard Torvane

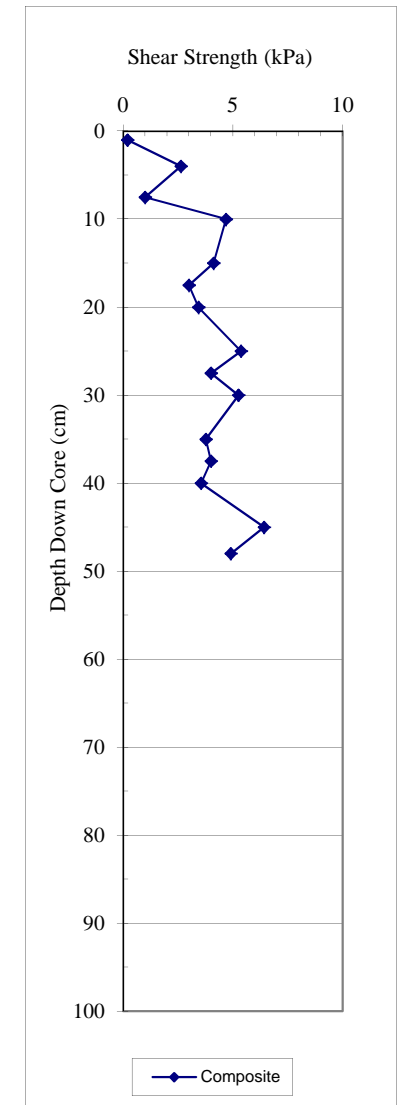
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
48	4.90

Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	1.00
17.5	3.00
27.5	4.00
37.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
4	2.63	2.63
7.5	1.00	
10	4.68	2.40
15	4.11	
17.5	3.00	
20	3.43	1.14
25	5.37	1.60
27.5	4.00	
30	5.25	1.71
35	3.77	0.91
37.5	4.00	
40	3.54	1.00
45	6.42	
48	4.90	



Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.67	2.85	41.12	4.6 Y 4.0/4
10	1.67	6.72	38.54	4.4 Y 3.7/9
15	-0.16	1.68	37.16	0.5 GY 3.6/3
20	-0.22	1.19	33.85	1.7 GY 3.3/2
25	-0.4	1.96	35.07	2.2 GY 3.4/4
30	-0.25	1.12	39.15	2.0 GY 3.8/2
35	-0.07	1.89	36.97	9.7 Y 3.6/3
40	0.16	2.58	37.76	8.2 Y 3.7/4
45	0.14	1.69	41.48	7.9 Y 4.0/2

Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1476.61
3	1466.57
4	1463.41
5	1478.56
6	1477.55
7	1480.30
8	1480.00
9	1479.70
10	1480.80
11	1484.10
12	1486.31
13	1487.42
14	1485.06
15	1483.95
16	1485.06
17	1485.06
18	1483.95
19	1482.85
20	1485.06
21	1486.16
22	1485.06
23	1483.80
24	1484.91
25	1481.60
26	1482.70
27	1482.85
28	1482.85
29	1481.10
30	1492.31
31	1488.97
32	1485.65
33	1480.15
34	1480.15
35	1481.25
36	1480.45
37	1478.55
38	1478.55
39	1479.65
40	1480.74
41	1481.84
42	1485.65
43	1484.76
44	1484.38
45	1490.65
46	1494.37

Cruise No: 2007802

Station: 60

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
13	1448.01		7.77
23	1450.75		7.96
33	1445.28		8.22
42	1450.75		8.46

Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

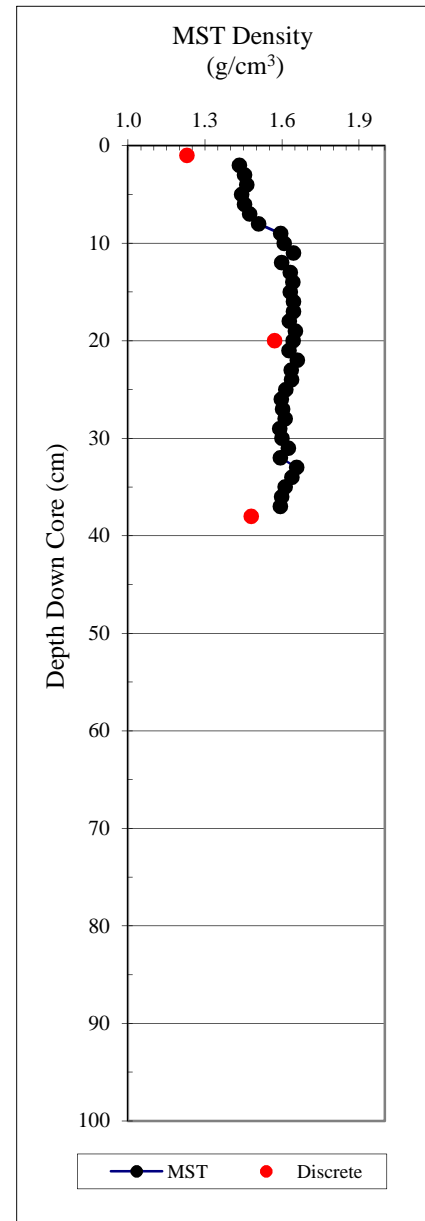
Station: 61

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.434
3	1.454
4	1.462
5	1.443
6	1.453
7	1.474
8	1.508
9	1.595
10	1.608
11	1.645
12	1.598
13	1.632
14	1.642
15	1.632
16	1.644
17	1.645
18	1.628
19	1.652
20	1.644
21	1.628
22	1.659
23	1.636
24	1.638
25	1.614
26	1.597
27	1.602
28	1.613
29	1.591
30	1.600
31	1.625
32	1.593
33	1.657
34	1.639
35	1.612
36	1.599
37	1.593



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	5.00
3	7.00
4	7.00
5	8.00
6	9.00
7	10.00
8	12.00
9	13.00
10	14.00
11	14.00
12	15.00
13	15.00
14	16.00
15	16.00
16	16.00
17	16.00
18	16.00
19	16.00
20	16.00
21	16.00
22	16.00
23	17.00
24	16.00
25	17.00
26	16.00
27	16.00
28	16.00
29	16.00
30	16.00
31	16.00
32	16.00
33	15.00
34	15.00
35	13.00
36	12.00
37	9.00
38	7.00

Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.657
2	1.418
3	1.108
4	0.851
5	0.698
6	0.626
7	0.594
8	0.576
9	0.563
10	0.557
11	0.558
12	0.563
13	0.572
14	0.579
15	0.586
16	0.592
17	0.597
18	0.599
19	0.600
20	0.601
21	0.600
22	0.598
23	0.597
24	0.594
25	0.594
26	0.592
27	0.592
28	0.591
29	0.590
30	0.589
31	0.589
32	0.594
33	0.606
34	0.624
35	0.657
36	0.715
37	0.820
38	1.011

Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

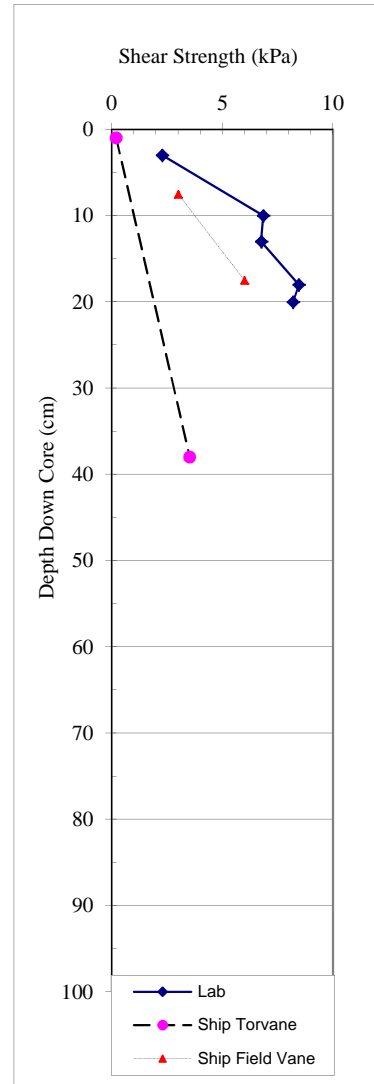
Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.28	2.17	1.05
10	6.85	1.37	5.00
13	6.76	1.77	3.81
18	8.45	2.17	3.89
20	8.20	2.44	3.36
23	8.00	1.33	6.02
28	6.42	1.33	4.83
33	5.54	3.08	1.80



Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
1.0	0.20
38	3.53

Cruise No: 2007802

Station: 61

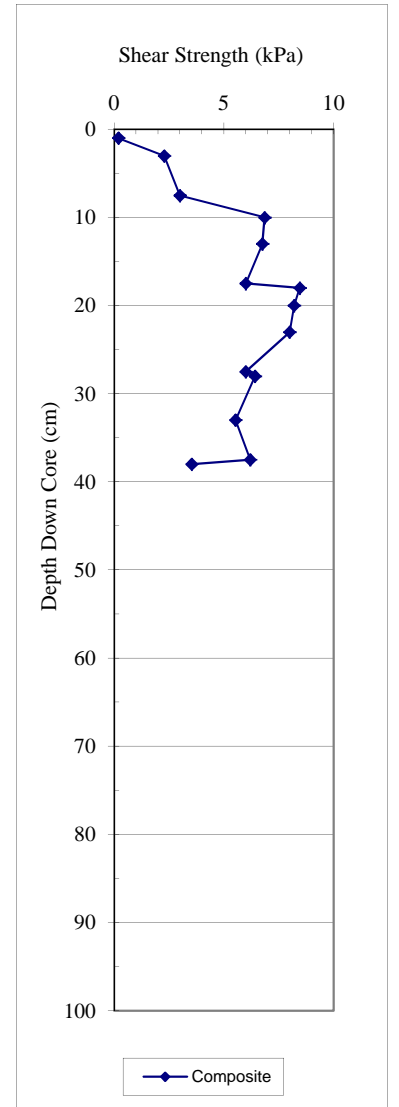
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	3.00
17.5	6.00
27.5	6.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	2.28	2.17
7.5	3.00	
10	6.85	1.37
13	6.76	1.77
17.5	6.00	
18	8.45	2.17
20	8.20	2.44
23	8.00	1.33
27.5	6.00	
28	6.42	1.33
33	5.54	3.08
37.5	6.20	
38	3.53	



Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.23	5.33	39.53	4.6 Y	3.8/.7
10	0.19	2.29	39.58	7.8 Y	3.8/.3
15	0.3	2.79	37.98	7.6 Y	3.7/.4
20	0.15	1.88	39.93	8.0 Y	3.9/.3
25	0.17	1.76	43.96	7.4 Y	4.3/.3
30	0.14	2.29	36.79	8.3 Y	3.6/.4
35	0.1	2.04	39.96	8.3 Y	3.9/.3

Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1446.99
3	1448.63
4	1442.88
5	1463.39
6	1456.14
7	1463.04
8	1465.83
9	1466.77
10	1466.62
11	1469.87
12	1470.95
13	1472.04
14	1474.22
15	1472.04
16	1472.04
17	1470.95
18	1470.95
19	1469.87
20	1469.87
21	1470.02
22	1469.08
23	1467.50
24	1466.86
25	1466.86
26	1468.09
27	1467.16
28	1466.23
29	1466.52
30	1465.44
31	1466.52
32	1466.52
33	1466.52
34	1468.68
35	1468.73
36	1464.23
37	1471.40
38	1480.09

Cruise No: 2007802

Station: 61

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1450.75		9.48
22	1456.27		9.69
31	1453.51		9.81

Cruise No: 2007802

Station: 62

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

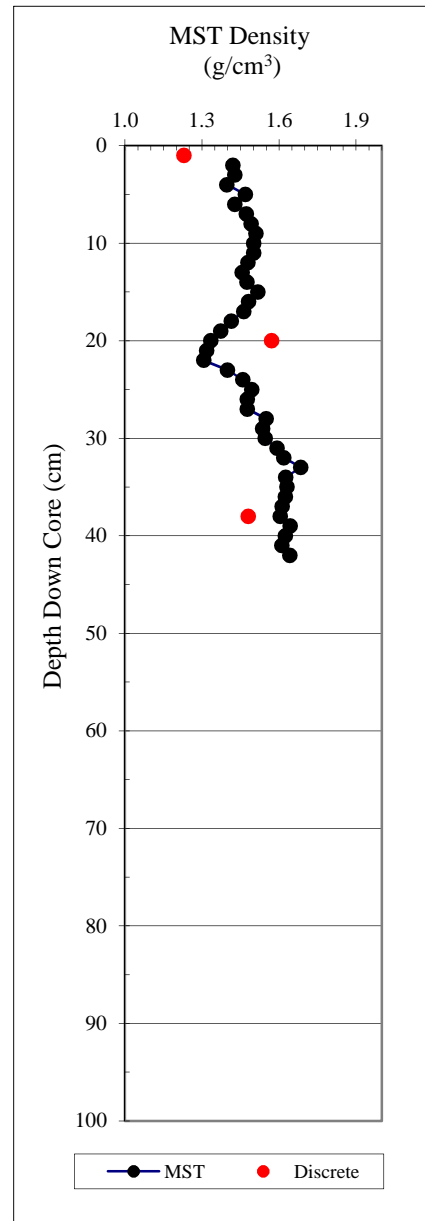
Station: 62

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.421
3	1.428
4	1.397
5	1.469
6	1.428
7	1.472
8	1.491
9	1.510
10	1.502
11	1.502
12	1.479
13	1.457
14	1.475
15	1.518
16	1.482
17	1.462
18	1.413
19	1.373
20	1.334
21	1.318
22	1.306
23	1.399
24	1.459
25	1.493
26	1.477
27	1.476
28	1.550
29	1.536
30	1.546
31	1.593
32	1.618
33	1.685
34	1.625
35	1.631
36	1.625
37	1.613
38	1.605
39	1.643
40	1.624
41	1.611
42	1.643



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	6.00
4	8.00
5	8.00
6	9.00
7	9.00
8	9.00
9	10.00
10	9.00
11	9.00
12	10.00
13	10.00
14	10.00
15	9.00
16	9.00
17	8.00
18	8.00
19	6.00
20	5.00
21	6.00
22	6.00
23	7.00
24	8.00
25	8.00
26	10.00
27	10.00
28	11.00
29	11.00
30	12.00
31	13.00
32	13.00
33	14.00
34	14.00
35	14.00
36	14.00
37	13.00
38	13.00
39	13.00
40	12.00
41	11.00
42	9.00
43	7.00

Cruise No: 2007802

Station: 62

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.541
2	1.367
3	1.122
4	0.870
5	0.701
6	0.606
7	0.558
8	0.533
9	0.523
10	0.518
11	0.516
12	0.517
13	0.517
14	0.517
15	0.516
16	0.514
17	0.512
18	0.508
19	0.504
20	0.502
21	0.501
22	0.502
23	0.502
24	0.501
25	0.502
26	0.506
27	0.513
28	0.521
29	0.529
30	0.537
31	0.547
32	0.559
33	0.571
34	0.581
35	0.590
36	0.597
37	0.600
38	0.602
39	0.607
40	0.617
41	0.641
42	0.689
43	0.791

Cruise No: 2007802

Station: 62

Sample Type: Push Core

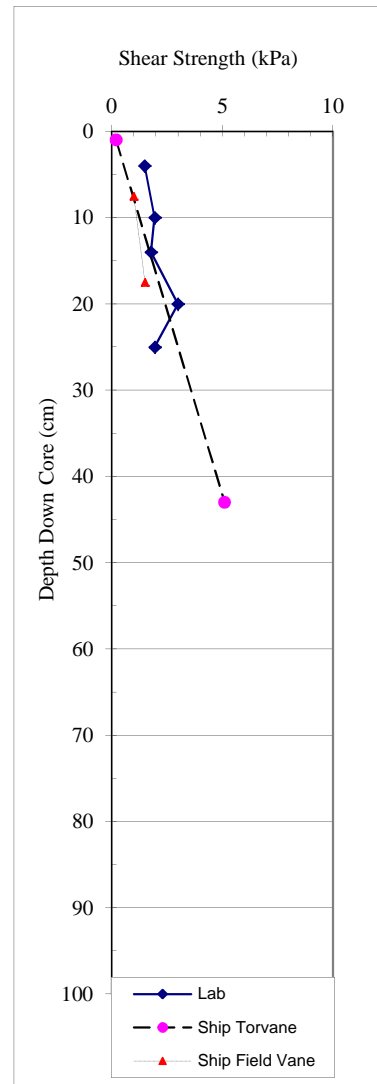
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	1.49		
10	1.94		
14	1.77		
20	2.99		
25	1.94	1.37	1.42
30	3.77	2.40	1.57
35	4.32	1.00	4.33
40	5.98	4.10	1.46



Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Shipboard Torvane

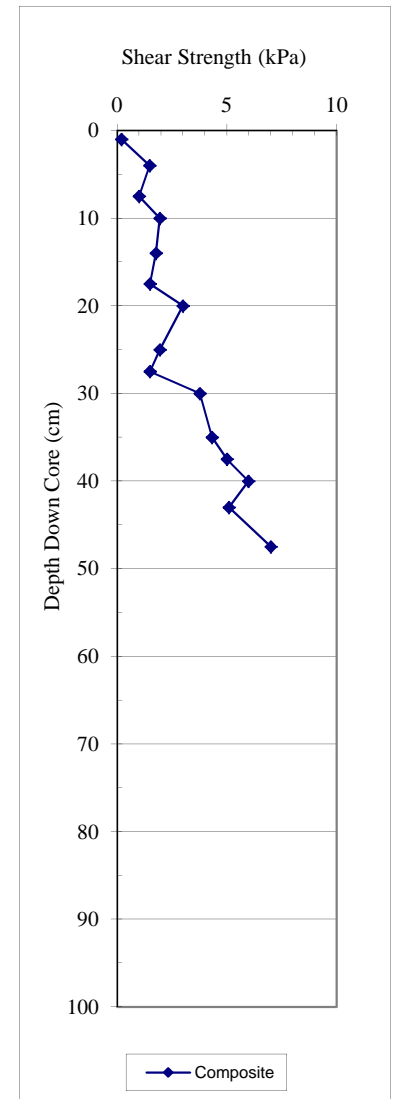
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear (kPa)
1.0	0.20
43	5.10

Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u> <u>Undrained</u> Shear Shear	
(kPa)	
7.5	1.00
17.5	1.50
27.5	1.50
37.5	5.00
47.5	7.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
4	1.49	
7.5	1.00	
10	1.94	
14	1.77	
17.5	1.50	
20	2.99	
25	1.94	1.37
27.5	1.50	
30	3.77	2.40
35	4.32	1.00
37.5	5.00	
40	5.98	4.10
43	5.10	
47.5	7.00	



Cruise No: 2007802

Station: 62

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.13	5.19	39.67	4.8 Y	3.8/.7
10	1.8	6.83	40.82	4.0 Y	3.9/.9
15	0.81	4.41	38.43	5.7 Y	3.7/.6
20	-0.03	-0.44	21.98	6.9 PB	2.1/.1
25	-0.59	-0.29	32.44	7.5 BG	3.2/.1
30	0.61	2.93	41.74	5.0 Y	4.0/.4
35	0.05	2.41	36.83	9.0 Y	3.6/.4
40	0.05	1.7	38.32	8.9 Y	3.7/.3

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1437.92
3	1438.84
4	1442.04
5	1447.28
6	1443.20
7	1442.71
8	1441.06
9	1438.65
10	1439.56
11	1440.62
12	1441.68
13	1441.68
14	1440.62
15	1439.56
16	1439.56
17	1440.91
18	1443.48
19	1444.99
20	1447.86
21	1453.67
22	1450.89
23	1446.90
24	1444.00
25	1443.24
26	1442.62
27	1442.91
28	1442.14
29	1441.38
30	1441.53
31	1442.88
32	1446.06
33	1449.26
34	1451.40
35	1449.26
36	1447.13
37	1447.13
38	1447.13
39	1447.79
40	1448.60
41	1445.58
42	1444.35
43	1450.18

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1439.85		9.94
18	1445.28		10.25
28	1437.14		10.53
37	1448.01		10.79

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

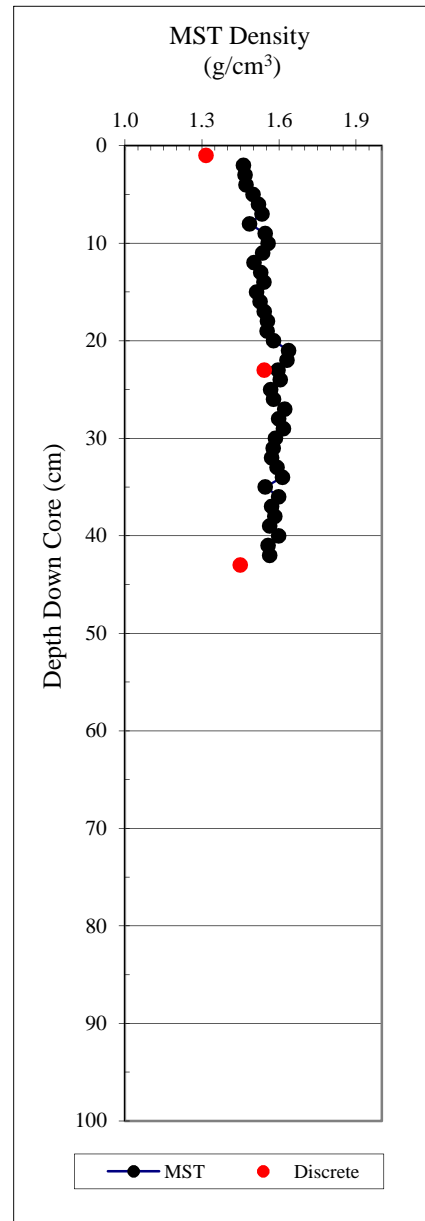
Station: 63

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.461
3	1.468
4	1.472
5	1.499
6	1.519
7	1.533
8	1.486
9	1.546
10	1.558
11	1.536
12	1.502
13	1.528
14	1.541
15	1.513
16	1.526
17	1.542
18	1.554
19	1.553
20	1.578
21	1.638
22	1.631
23	1.597
24	1.605
25	1.568
26	1.578
27	1.622
28	1.598
29	1.617
30	1.586
31	1.577
32	1.570
33	1.592
34	1.613
35	1.546
36	1.599
37	1.571
38	1.583
39	1.563
40	1.598
41	1.557
42	1.564



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.316	0.463	83.312	2.772	4.992	64.838	184.396
23	1.542	0.806	71.886	2.868	2.557	47.730	91.313
** 43	1.449	0.753	67.966	2.351	2.122	48.029	92.414

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	10.00
6	11.00
7	11.00
8	12.00
9	12.00
10	13.00
11	13.00
12	13.00
13	13.00
14	13.00
15	13.00
16	13.00
17	13.00
18	13.00
19	13.00
20	14.00
21	15.00
22	14.00
23	15.00
24	15.00
25	15.00
26	15.00
27	15.00
28	15.00
29	15.00
30	15.00
31	14.00
32	15.00
33	14.00
34	14.00
35	14.00
36	13.00
37	13.00
38	14.00
39	12.00
40	12.00
41	10.00
42	8.00
43	6.00

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.636
2	1.492
3	1.222
4	0.935
5	0.732
6	0.628
7	0.578
8	0.554
9	0.542
10	0.537
11	0.536
12	0.537
13	0.540
14	0.545
15	0.549
16	0.552
17	0.556
18	0.561
19	0.566
20	0.570
21	0.571
22	0.571
23	0.571
24	0.572
25	0.573
26	0.575
27	0.576
28	0.576
29	0.575
30	0.574
31	0.572
32	0.572
33	0.571
34	0.572
35	0.570
36	0.569
37	0.571
38	0.576
39	0.585
40	0.607
41	0.646
42	0.728
43	0.887

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.316	0.463	83.312	2.772	4.992	64.838	184.396
23	1.542	0.806	71.886	2.868	2.557	47.730	91.313
** 43	1.449	0.753	67.966	2.351	2.122	48.029	92.414

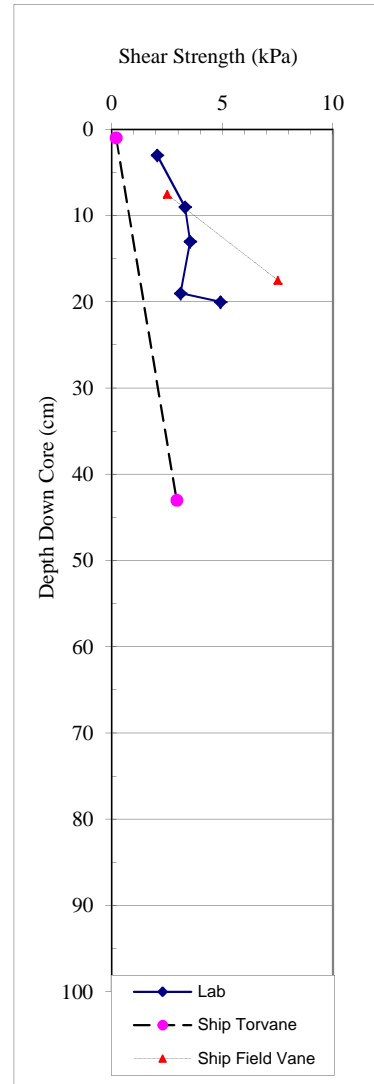
Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.06	0.91	2.25
9	3.31	1.60	2.07
13	3.54	1.22	2.91
19	3.10	2.33	1.33
20	4.91	2.28	2.15
25	8.22	4.11	2.00
30	7.20	1.99	3.61
35	5.54	1.77	3.12
40	5.60	2.74	2.04



Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear Shear (kPa)
1.0	0.20
43	2.94

Cruise No: 2007802

Station: 63

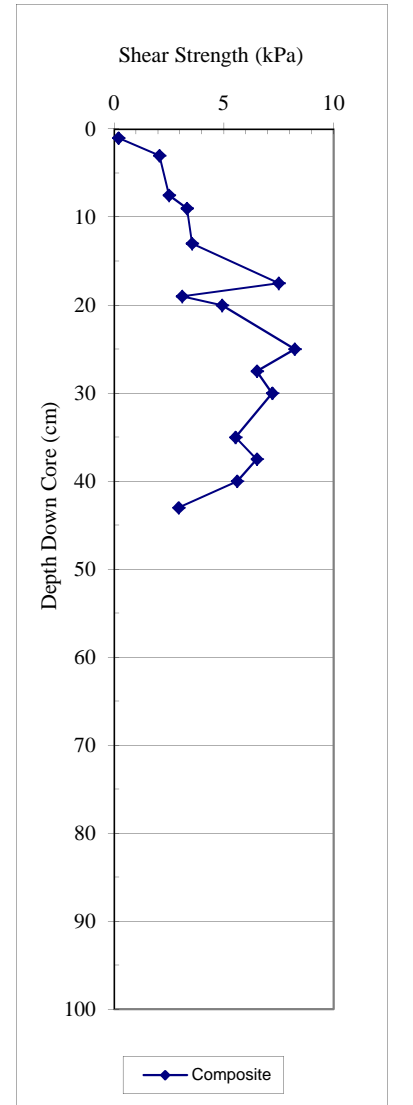
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.50
17.5	7.50
27.5	6.50
37.5	6.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	2.06	0.91
7.5	2.50	
9	3.31	1.60
13	3.54	1.22
17.5	7.50	
19	3.10	2.33
20	4.91	2.28
25	8.22	4.11
27.5	6.50	
30	7.20	1.99
35	5.54	1.77
37.5	6.50	
40	5.60	2.74
43	2.94	



Cruise No: 2007802

Station: 63

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.51	4.7	38.06	7.3 Y 3.7/.7
10	-0.01	2.21	36.27	9.2 Y 3.5/.4
15	-0.01	1.8	40.28	9.0 Y 3.9/.3
20	0.54	3.24	40.6	5.9 Y 3.9/.5
25	-0.27	1.44	38.46	1.5 GY 3.7/.3
30	0.33	3.16	37.9	7.4 Y 3.7/.5
35	0.39	3.46	38.43	7.2 Y 3.7/.5
40	0.58	3.46	41.6	5.9 Y 4.0/.5

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1458.44
3	1457.46
4	1465.25
5	1468.58
6	1466.86
7	1468.30
8	1470.89
9	1470.94
10	1468.95
11	1469.75
12	1468.50
13	1467.26
14	1466.96
15	1467.91
16	1466.67
17	1467.46
18	1467.16
19	1468.11
20	1468.90
21	1470.80
22	1472.70
23	1471.30
24	1470.20
25	1470.85
26	1469.60
27	1470.70
28	1470.85
29	1471.00
30	1469.90
31	1470.05
32	1468.96
33	1468.96
34	1470.35
35	1469.70
36	1469.05
37	1469.20
38	1471.55
39	1471.55
40	1472.40
41	1468.11
42	1473.47
43	1477.09

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1434.45		7.25
20	1439.85		7.58
30	1445.28		7.85

Cruise No: 2007802

Station: 64

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

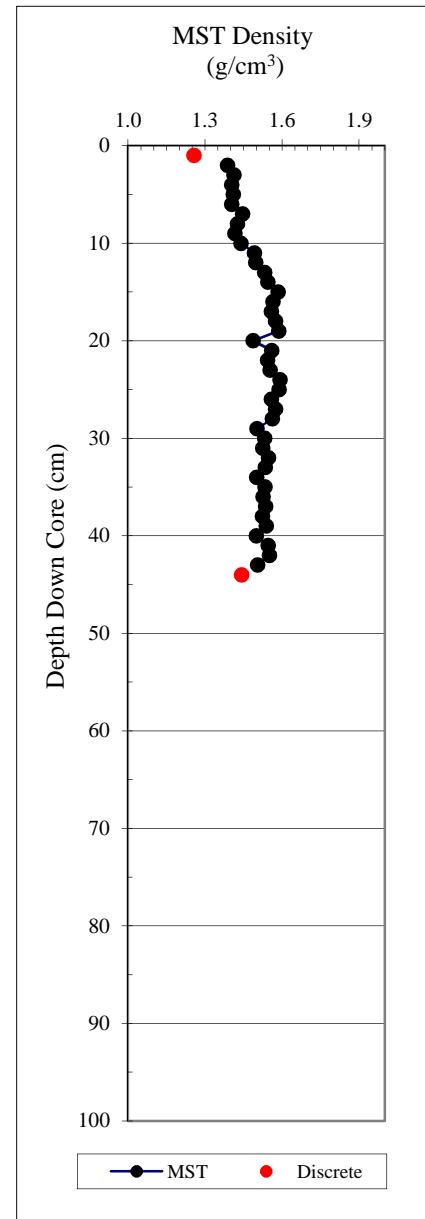
Station: 64

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.388
3	1.413
4	1.404
5	1.411
6	1.404
7	1.446
8	1.427
9	1.416
10	1.440
11	1.493
12	1.498
13	1.532
14	1.545
15	1.584
16	1.565
17	1.559
18	1.574
19	1.587
20	1.487
21	1.560
22	1.544
23	1.554
24	1.593
25	1.589
26	1.558
27	1.575
28	1.562
29	1.503
30	1.532
31	1.525
32	1.547
33	1.535
34	1.501
35	1.534
36	1.527
37	1.536
38	1.523
39	1.538
40	1.500
41	1.546
42	1.551
43	1.505



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.257	0.463	77.492	2.059	3.443	63.131	171.234
** 44	1.442	0.705	72.031	2.519	2.575	51.142	104.674

Cruise No: 2007802

Station: 64

Sample Type: *Push Core*

Data Type: *Laboratory MST Magnetic Susceptibility*

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	7.00
4	8.00
5	8.00
6	9.00
7	10.00
8	10.00
9	10.00
10	11.00
11	11.00
12	13.00
13	13.00
14	13.00
15	14.00
16	14.00
17	14.00
18	14.00
19	14.00
20	14.00
21	14.00
22	15.00
23	14.00
24	14.00
25	14.00
26	15.00
27	15.00
28	14.00
29	14.00
30	13.00
31	14.00
32	14.00
33	13.00
34	13.00
35	13.00
36	13.00
37	13.00
38	13.00
39	12.00
40	12.00
41	11.00
42	10.00
43	9.00
44	6.00

Cruise No: 2007802

Station: 64

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.636
2	1.461
3	1.189
4	0.908
5	0.728
6	0.623
7	0.568
8	0.545
9	0.534
10	0.530
11	0.530
12	0.533
13	0.537
14	0.540
15	0.544
16	0.549
17	0.553
18	0.556
19	0.560
20	0.563
21	0.566
22	0.568
23	0.568
24	0.569
25	0.569
26	0.566
27	0.564
28	0.563
29	0.560
30	0.559
31	0.556
32	0.556
33	0.555
34	0.554
35	0.553
36	0.550
37	0.550
38	0.551
39	0.555
40	0.564
41	0.579
42	0.606
43	0.656
44	0.755

Cruise No: 2007802

Station: 64

Sample Type: Push Core

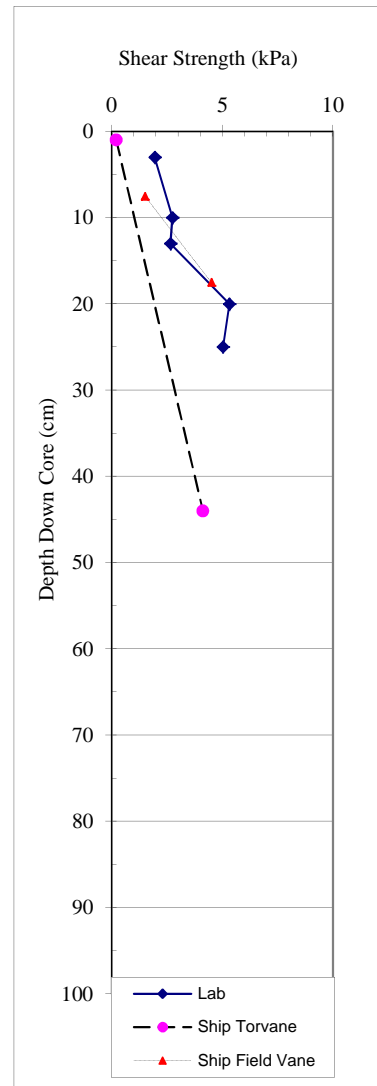
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.257	0.463	77.492	2.059	3.443	63.131	171.234
** 44	1.442	0.705	72.031	2.519	2.575	51.142	104.674

Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	1.94		
10	2.74	1.26	2.18
13	2.66		
20	5.32	3.21	1.66
25	5.03	2.06	2.44
30	3.54	2.74	1.29
35	4.10	1.33	3.08
40	4.65	3.10	1.50



Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Shipboard Torvane

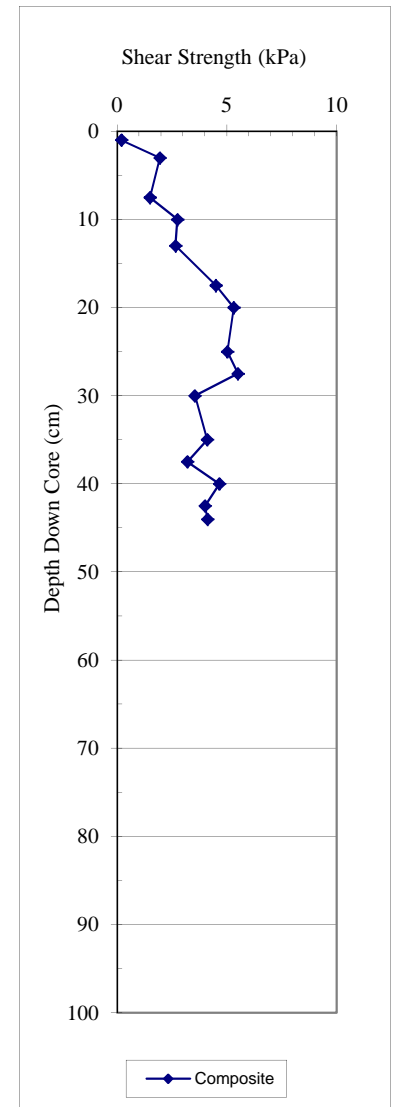
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
44	4.12

Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	1.50
17.5	4.50
27.5	5.50
37.5	3.20
42.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	1.94	
7.5	1.50	
10	2.74	1.26
13	2.66	
17.5	4.50	
20	5.32	3.21
25	5.03	2.06
27.5	5.50	
30	3.54	2.74
35	4.10	1.33
37.5	3.20	
40	4.65	3.10
42.5	4.00	
44	4.12	



Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.86	4.8	36.31	5.7 Y	3.5/.7
10	0.45	3.13	42.06	6.2 Y	4.1/.4
15	0.18	2.28	37.54	7.8 Y	3.6/.3
20	0.31	3.34	37.21	7.8 Y	3.6/.5
25	0.37	3.03	39.93	7.0 Y	3.9/.4
30	0.52	3.72	37.93	6.7 Y	3.7/.5
35	0.49	3.06	41.7	6.0 Y	4.0/.4
40	0.34	2.98	36.48	7.4 Y	3.5/.5

Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1486.36
3	1495.59
4	1491.86
5	1490.75
6	1486.28
7	1486.56
8	1487.66
9	1492.07
10	1493.99
11	1488.76
12	1486.56
13	1490.01
14	1490.01
15	1488.76
16	1490.96
17	1492.07
18	1491.11
19	1493.47
20	1490.30
21	1490.60
22	1487.89
23	1488.33
24	1489.14
25	1488.99
26	1488.18
27	1487.09
28	1487.23
29	1486.14
30	1485.99
31	1484.89
32	1484.60
33	1485.55
34	1487.59
35	1487.30
36	1487.15
37	1487.95
38	1487.81
39	1488.02
40	1487.49
41	1487.62
42	1488.92
43	1489.35
44	1494.14

Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

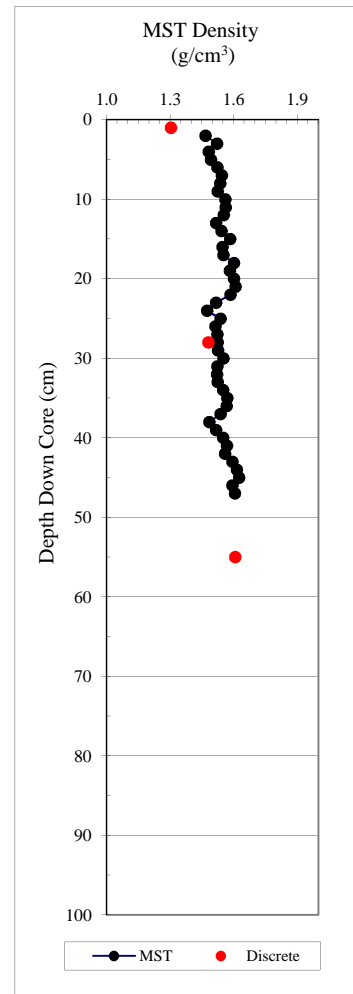
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1439.85		10.31
20	1448.01		10.47
30	1445.28		10.73

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.466
3	1.520
4	1.481
5	1.492
6	1.522
7	1.544
8	1.535
9	1.524
10	1.560
11	1.562
12	1.553
13	1.516
14	1.543
15	1.583
16	1.547
17	1.551
18	1.601
19	1.581
20	1.601
21	1.609
22	1.584
23	1.517
24	1.475
25	1.538
26	1.513
27	1.522
28	1.524
29	1.525
30	1.551
31	1.523
32	1.522
33	1.524
34	1.549
35	1.570
36	1.566
37	1.537
38	1.484
39	1.516
40	1.549
41	1.567
42	1.559
43	1.593
44	1.614
45	1.626
46	1.593
47	1.605
48	1.610
49	1.610
50	1.585
51	1.600
52	1.617
53	1.645
54	1.649
55	1.655



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.303	0.540	74.542	2.120	2.928	58.577	141.414
28	1.481	0.713	74.945	2.847	2.991	51.832	107.606
** 55	1.607	0.968	62.411	2.576	1.660	39.764	66.014

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	10.00
6	11.00
7	11.00
8	12.00
9	12.00
10	12.00
11	13.00
12	12.00
13	13.00
14	13.00
15	13.00
16	14.00
17	13.00
18	14.00
19	14.00
20	14.00
21	14.00
22	14.00
23	13.00
24	14.00
25	13.00
26	13.00
27	12.00
28	12.00
29	13.00
30	12.00
31	13.00
32	13.00
33	13.00
34	13.00
35	13.00
36	13.00
37	13.00
38	13.00
39	14.00
40	13.00
41	14.00
42	14.00
43	14.00
44	15.00
45	15.00
46	14.00
47	14.00
48	14.00
49	14.00
50	14.00
51	14.00
52	14.00
53	13.00
54	11.00
55	10.00

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.992
2	1.775
3	1.379
4	1.026
5	0.799
6	0.683
7	0.624
8	0.596
9	0.583
10	0.578
11	0.576
12	0.575
13	0.576
14	0.578
15	0.582
16	0.585
17	0.589
18	0.590
19	0.589
20	0.589
21	0.591
22	0.592
23	0.594
24	0.595
25	0.596
26	0.593
27	0.589
28	0.583
29	0.579
30	0.576
31	0.572
32	0.570
33	0.571
34	0.573
35	0.573
36	0.574
37	0.576
38	0.579
39	0.585
40	0.589
41	0.591
42	0.593
43	0.596
44	0.601
45	0.605
46	0.608
47	0.610
48	0.614
49	0.621
50	0.629
51	0.644
52	0.662
53	0.689
54	0.732
55	0.812

Cruise No: 2007802

Station: 65

Sample Type: Push Core

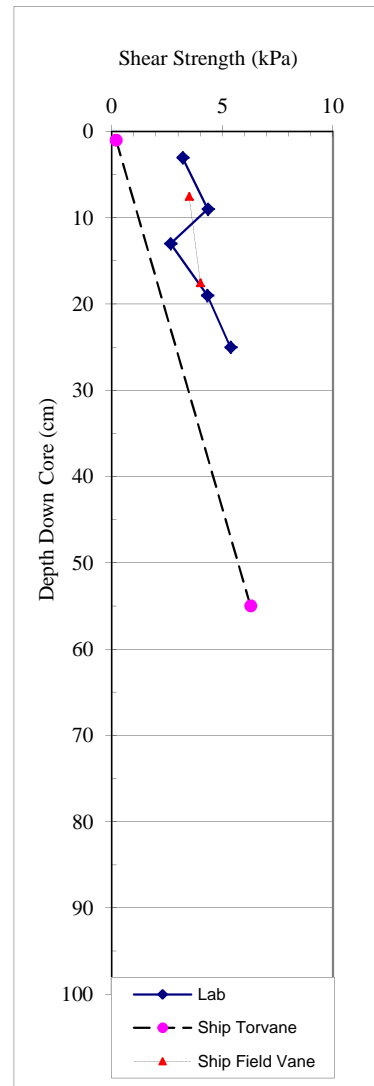
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.303	0.540	74.542	2.120	2.928	58.577	141.414
28	1.481	0.713	74.945	2.847	2.991	51.832	107.606
** 55	1.607	0.968	62.411	2.576	1.660	39.764	66.014

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	3.20	1.71	1.87
9	4.34	1.71	2.53
13	2.66	1.44	1.85
19	4.32	0.78	5.57
25	5.37	1.60	3.36
30	4.80	2.74	1.75
35	5.43		
40	6.20	1.00	6.22
43	6.28	2.40	2.62
49	5.14		
53	7.53	2.44	3.09



Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Shipboard Torvane

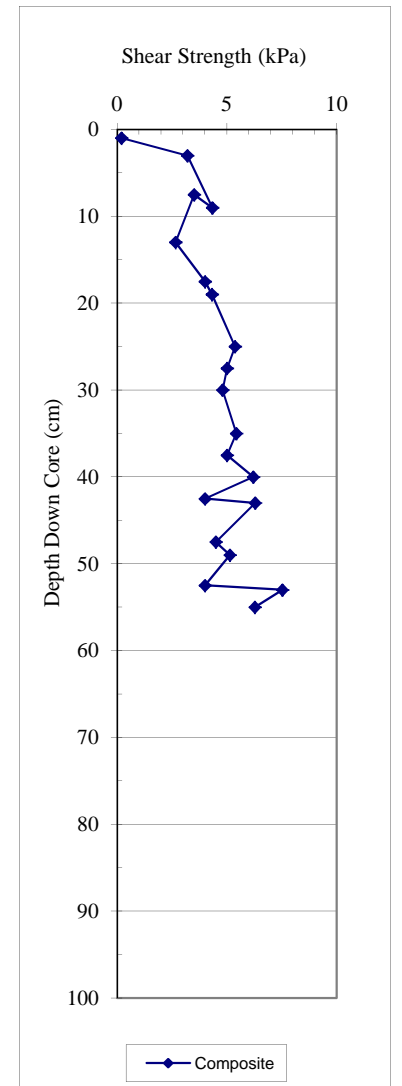
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear Shear (kPa)
1.0	0.20
55	6.28

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	3.50
17.5	4.00
27.5	5.00
37.5	5.00
47.5	4.50
52.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	3.20	1.71
9	4.34	1.71
7.5	3.50	
13	2.66	1.44
17.5	4.00	
19	4.32	0.78
25	5.37	1.60
27.5	5.00	
30	4.80	2.74
35	5.43	
37.5	5.00	1.00
40	6.20	
42.5	4.00	
43	6.28	2.40
47.5	4.50	
49	5.14	
52.5	4.00	
53	7.53	2.44
55	6.28	



Cruise No: 2007802

Station: 65

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	-0.42	0.8	34.9	5.4 GY 3.4/.2
10	-0.02	1.78	42.73	9.1 Y 4.1/.3
15	-0.55	0.34	34.03	0.2 G 3.3/.2
20	0	1.8	38.52	9.2 Y 3.7/.3
25	-0.67	-0.78	31.9	7.8 B 3.1/.2
30	-0.67	-0.75	32.05	7.4 B 3.1/.2
35	-0.69	-0.3	32.47	6.0 BG 3.2/.1
40	-0.66	-0.72	31.41	7.2 B 3.1/.2
45	-0.43	0.16	38.12	2.2 G 3.7/.1
50	-0.12	1.68	38.57	0.3 GY 3.7/.3

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1479.91
3	1477.79
4	1477.70
5	1490.52
6	1485.61
7	1482.35
8	1485.43
9	1485.95
10	1484.67
11	1483.55
12	1484.83
13	1486.11
14	1485.13
15	1484.16
16	1484.31
17	1486.04
18	1487.17
19	1485.22
20	1484.24
21	1484.55
22	1483.06
23	1480.76
24	1480.39
25	1479.37
26	1479.46
27	1478.59
28	1478.53
29	1478.62
30	1478.71
31	1478.95
32	1477.94
33	1478.03
34	1479.07
35	1480.12
36	1479.10
37	1478.90
38	1478.69
39	1478.99
40	1479.43
41	1480.18
42	1480.63
43	1482.18
44	1484.54
45	1485.80
46	1484.99
47	1485.65
48	1484.69
49	1484.39
50	1483.88
51	1485.14
52	1486.40
53	1486.91
54	1491.49
55	1497.56

Cruise No: 2007802

Station: 65

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1444.98		9.93
18	1447.71		10.18
28	1444.98		10.34
38	1447.71		10.57
48	1453.21		10.93

Cruise No: 2007802

Station: 66

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

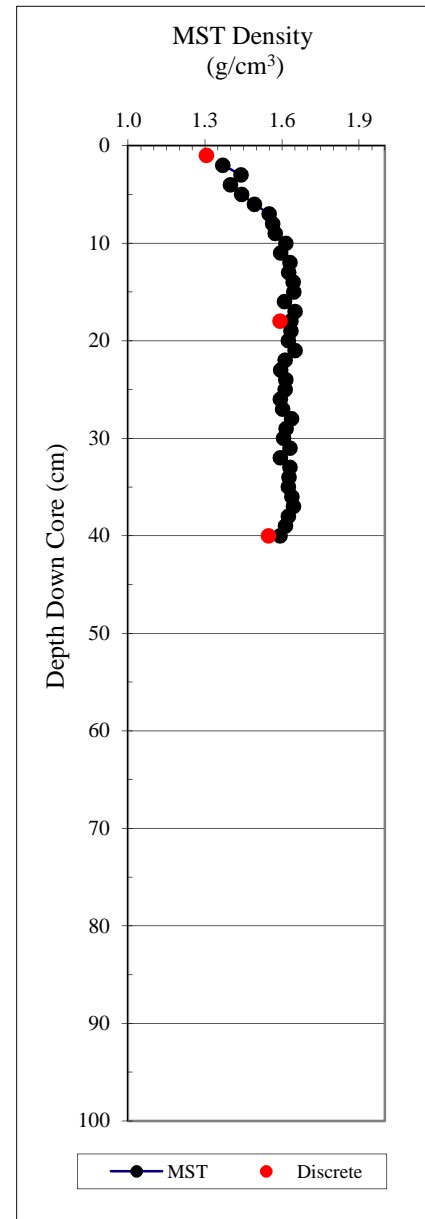
Station: 66

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.369
3	1.440
4	1.399
5	1.443
6	1.493
7	1.550
8	1.564
9	1.574
10	1.615
11	1.594
12	1.630
13	1.625
14	1.644
15	1.645
16	1.610
17	1.651
18	1.635
19	1.634
20	1.624
21	1.651
22	1.613
23	1.595
24	1.614
25	1.612
26	1.593
27	1.603
28	1.637
29	1.616
30	1.606
31	1.631
32	1.594
33	1.631
34	1.627
35	1.624
36	1.639
37	1.645
38	1.624
39	1.614
40	1.592



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.305	0.484	80.164	2.441	4.041	62.897	169.518
18	1.592	0.892	68.314	2.816	2.156	43.945	78.395
** 40	1.548	0.864	66.716	2.597	2.004	44.144	79.030

Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	11.00
6	12.00
7	12.00
8	13.00
9	14.00
10	14.00
11	14.00
12	14.00
13	15.00
14	15.00
15	15.00
16	16.00
17	16.00
18	16.00
19	15.00
20	16.00
21	15.00
22	15.00
23	15.00
24	15.00
25	15.00
26	15.00
27	15.00
28	15.00
29	15.00
30	15.00
31	15.00
32	15.00
33	15.00
34	15.00
35	15.00
36	14.00
37	13.00
38	12.00
39	10.00
40	7.00

Cruise No: 2007802

Station: 66

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.629
2	1.485
3	1.182
4	0.902
5	0.725
6	0.637
7	0.595
8	0.574
9	0.566
10	0.567
11	0.573
12	0.580
13	0.588
14	0.592
15	0.594
16	0.597
17	0.601
18	0.604
19	0.607
20	0.608
21	0.610
22	0.610
23	0.610
24	0.607
25	0.604
26	0.599
27	0.594
28	0.589
29	0.584
30	0.581
31	0.580
32	0.581
33	0.584
34	0.590
35	0.598
36	0.614
37	0.638
38	0.679
39	0.745
40	0.858

Cruise No: 2007802

Station: 66

Sample Type: Push Core

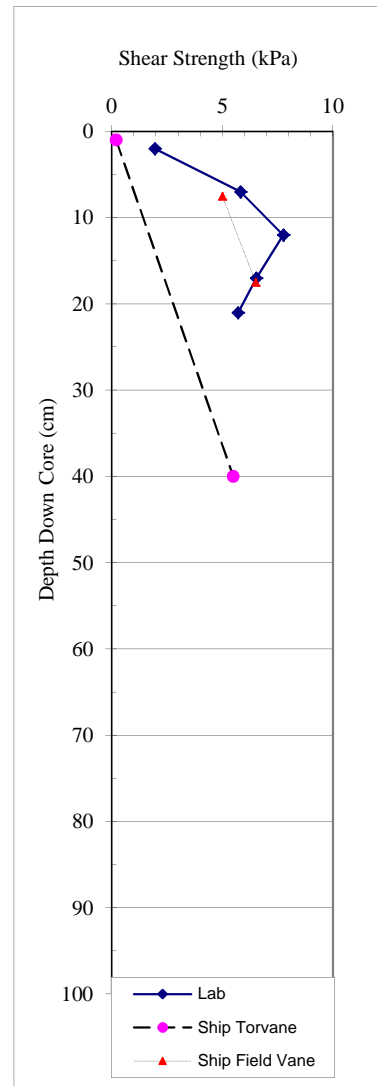
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.305	0.484	80.164	2.441	4.041	62.897	169.518
18	1.592	0.892	68.314	2.816	2.156	43.945	78.395
** 40	1.548	0.864	66.716	2.597	2.004	44.144	79.030

Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
2	1.94	1.37	1.42
7	5.83	1.71	3.40
12	7.75	4.76	1.63
17	6.54	3.10	2.11
21	5.71	3.08	1.85
27	6.85	3.20	2.14
31	5.32	3.10	1.71
37	7.86	3.43	2.29



Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Shipboard Torvane

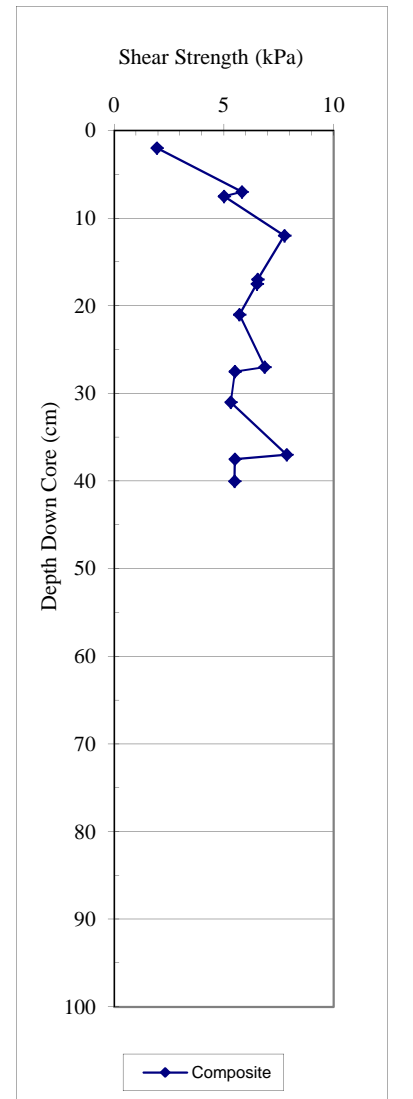
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
1.0	0.20
40	5.49

Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	5.00
17.5	6.50
27.5	5.50
37.5	5.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
2	1.94	1.37
7	5.83	1.71
7.5	5.00	
12	7.75	4.76
17	6.54	3.10
17.5	6.50	
21	5.71	3.08
27	6.85	3.20
27.5	5.50	
31	5.32	3.10
37	7.86	3.43
37.5	5.50	
40	5.49	



Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.65	3.03	44.22	4.5 Y 4.3/4
10	-0.25	1.28	37.57	1.7 GY 3.6/2
15	0.19	2.54	38.33	8.0 Y 3.7/4
20	0.31	2.96	37.84	7.5 Y 3.7/4
25	0.26	2.41	39.54	7.5 Y 3.8/4
30	0.08	2.39	39.04	8.5 Y 3.8/4
35	-0.06	1.84	38.49	9.5 Y 3.7/3

Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.60
3	1482.04
4	1482.46
5	1494.23
6	1491.60
7	1495.55
8	1496.76
9	1497.28
10	1496.83
11	1494.42
12	1493.29
13	1498.94
14	1501.21
15	1497.81
16	1494.42
17	1494.42
18	1502.35
19	1502.35
20	1500.08
21	1498.94
22	1497.28
23	1495.63
24	1495.10
25	1494.43
26	1494.88
27	1495.03
28	1495.33
29	1495.63
30	1495.78
31	1495.93
32	1496.08
33	1497.36
34	1499.62
35	1499.62
36	1498.49
37	1498.49
38	1500.15
39	1499.02
40	1504.50

Cruise No: 2007802

Station: 66

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
9	1453.21		10.31
19	1458.75		10.49
29	1458.75		10.66

Cruise No: 2007802

Station: 67

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

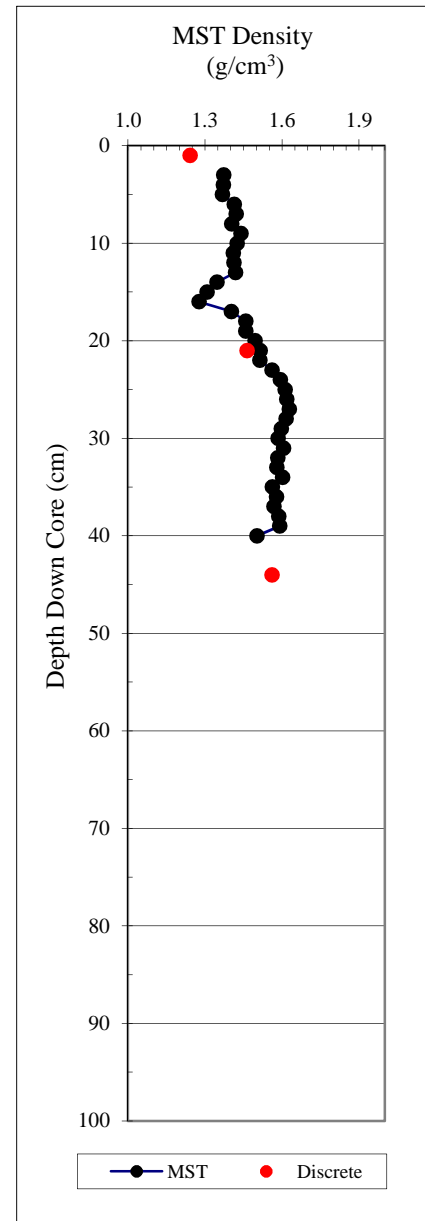
Station: 67

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
3	1.373
4	1.371
5	1.368
6	1.414
7	1.421
8	1.404
9	1.440
10	1.426
11	1.411
12	1.412
13	1.419
14	1.347
15	1.308
16	1.277
17	1.402
18	1.459
19	1.458
20	1.495
21	1.515
22	1.514
23	1.561
24	1.594
25	1.612
26	1.619
27	1.628
28	1.615
29	1.597
30	1.585
31	1.606
32	1.583
33	1.579
34	1.602
35	1.562
36	1.579
37	1.568
38	1.587
39	1.591
40	1.503



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.242	0.399	82.289	2.254	4.646	67.855	211.093
21	1.464	0.688	75.792	2.840	3.131	53.024	112.873
** 44	1.562	0.898	64.820	2.552	1.843	42.504	73.924

Cruise No: 2007802

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	5.00
3	7.00
4	7.00
5	7.00
6	8.00
7	9.00
8	9.00
9	9.00
10	9.00
11	9.00
12	9.00
13	9.00
14	9.00
15	8.00
16	9.00
17	10.00
18	10.00
19	11.00
20	11.00
21	13.00
22	13.00
23	13.00
24	14.00
25	14.00
26	15.00
27	15.00
28	16.00
29	16.00
30	15.00
31	16.00
32	16.00
33	16.00
34	16.00
35	15.00
36	15.00
37	15.00
38	18.00
39	14.00
40	14.00
41	12.00
42	11.00
43	9.00
44	6.00

Cruise No: 2007802

Station: 6Z

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.609
2	1.426
3	1.144
4	0.867
5	0.687
6	0.595
7	0.549
8	0.525
9	0.513
10	0.508
11	0.505
12	0.504
13	0.503
14	0.503
15	0.506
16	0.508
17	0.510
18	0.512
19	0.515
20	0.521
21	0.529
22	0.538
23	0.548
24	0.557
25	0.565
26	0.572
27	0.579
28	0.587
29	0.594
30	0.597
31	0.597
32	0.595
33	0.592
34	0.591
35	0.592
36	0.595
37	0.601
38	0.608
39	0.619
40	0.637
41	0.664
42	0.712
43	0.801
44	0.967

Cruise No: 2007802

Station: 67

Sample Type: Push Core

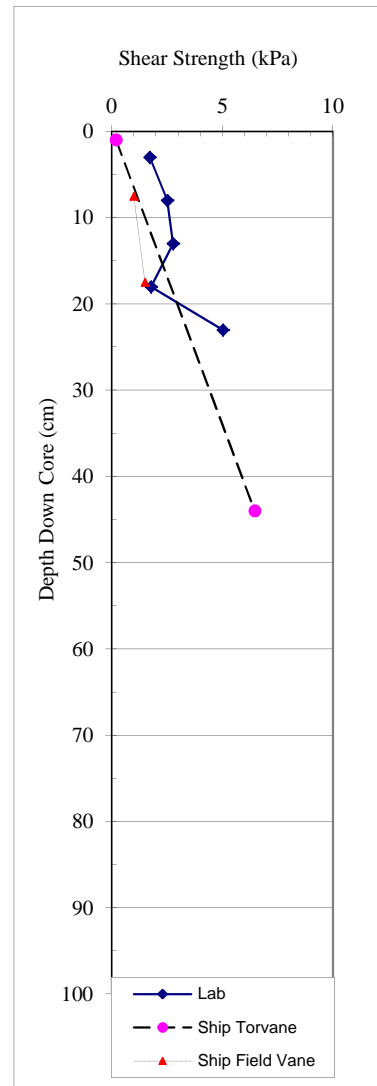
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.242	0.399	82.289	2.254	4.646	67.855	211.093
21	1.464	0.688	75.792	2.840	3.131	53.024	112.873
** 44	1.562	0.898	64.820	2.552	1.843	42.504	73.924

Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	1.71	1.60	1.07
8	2.51	2.17	1.16
13	2.77	1.99	1.39
18	1.77	1.22	1.45
23	5.03	2.40	2.10
28	10.85	1.83	5.94
33	7.42	1.33	5.58
38	7.64	1.88	4.06



Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Shipboard Torvane

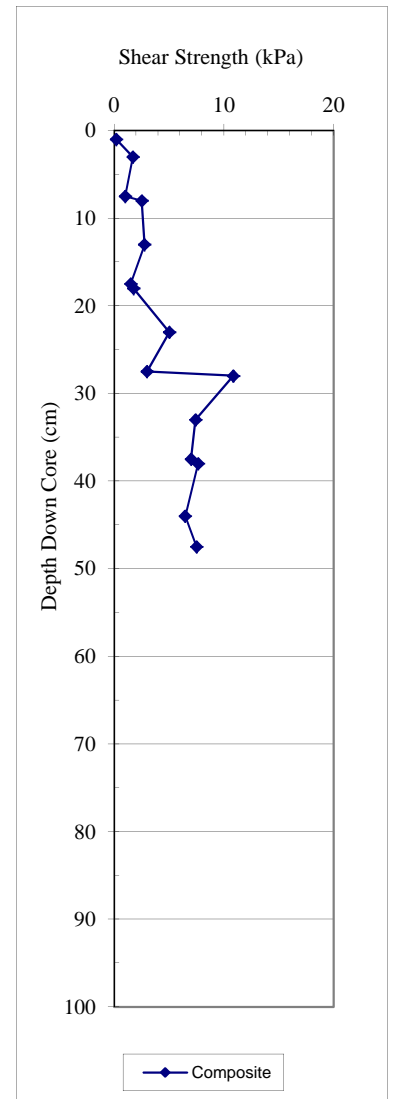
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear Shear (kPa)
1.0	0.20
44	6.47

Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	1.00
17.5	1.50
27.5	3.00
37.5	7.00
47.5	7.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1	0.2	
3	1.71	1.60
7.5	1.00	
8	2.51	2.17
13	2.77	1.99
17.5	1.50	
18	1.77	1.22
23	5.03	2.40
27.5	3.00	
28	10.85	1.83
33	7.42	1.33
37.5	7.00	
38	7.64	1.88
44	6.47	
47.5	7.50	



Cruise No: 2007802

Station: 67

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.06	4.94	41.02	4.7 Y	4.0/.7
10	1.36	6.3	39.81	4.9 Y	3.8/.9
15	-0.05	1.75	39.75	9.2 Y	3.9/.3
20	0.06	1.68	36.4	8.7 Y	3.5/.3
25	-0.12	1.36	40.29	0.3 GY	3.9/.2
30	-0.2	1.37	37.1	1.2 GY	3.6/.2
35	-0.09	1.68	37.84	9.8 Y	3.7/.3
40	0.06	1.81	35.77	8.9 Y	3.5/.3

Cruise No: 2007802

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1501.41
4	1490.69
5	1501.49
6	1494.64
7	1491.06
8	1492.39
9	1494.84
10	1495.51
11	1496.48
12	1496.18
13	1495.06
14	1497.15
15	1501.65
16	1501.65
17	1501.65
18	1494.91
19	1489.34
20	1486.01
21	1484.91
22	1489.49
23	1493.27
24	1498.80
25	1502.78
26	1505.49
27	1505.94
28	1506.77
29	1490.05
30	1498.95
31	1504.58
32	1502.32
33	1498.95
34	1502.32
35	1501.20
36	1500.22
37	1499.10
38	1501.35
39	1501.35
40	1503.60
41	1490.05

Cruise No: 2007802

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
18	1447.71		8.88
28	1455.98		9.08
38	1455.98		9.32

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

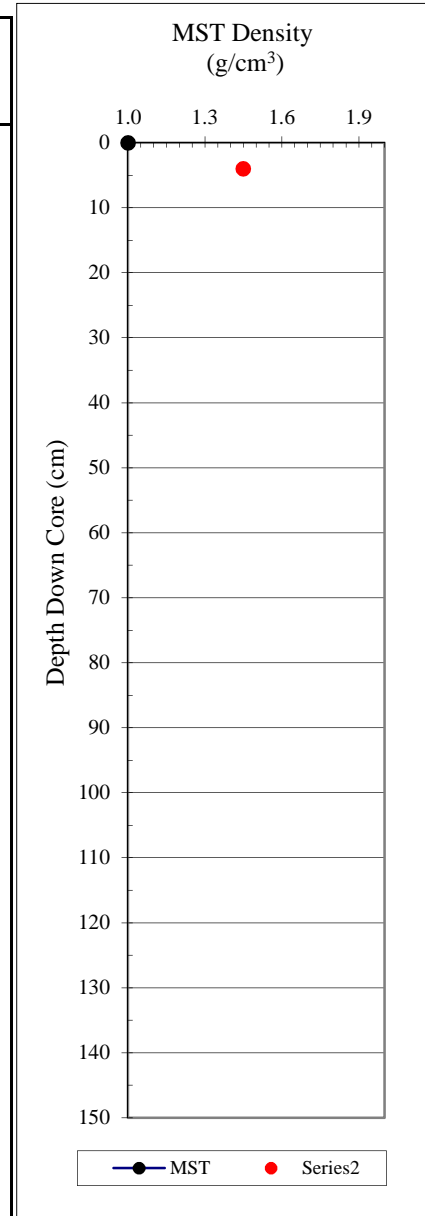
Station: 72

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.450	0.667	76.376	2.825	3.233	53.957	117.187
10	1.500	0.751	73.176	2.798	2.728	49.958	99.832
** 35	1.457	0.792	64.966	2.261	1.854	45.648	83.987

Cruise No: 2008801

Station: 72

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.450	0.667	76.376	2.825	3.233	53.957	117.187
10	1.500	0.751	73.176	2.798	2.728	49.958	99.832
** 35	1.457	0.792	64.966	2.261	1.854	45.648	83.987

Cruise No: 2008801
 Station: 72
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.63	1.60	1.64
15	5.94	5.37	1.11
25	4.46	1.49	3.00

Cruise No: 2007802
 Station: 72
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 72
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 72

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	3.4	8.22	40.15	1.4 Y	3.8/1.1
5	2.34	7.38	42.2	2.8 Y	4.1/1.0
10	0.57	3.26	45.1	5.2 Y	4.4/4
15	0.76	4.04	41.84	5.3 Y	4.0/6
20	0.59	2.62	45.24	4.5 Y	4.4/4
25	0.44	2.91	43.97	5.9 Y	4.3/4
30	0.54	3.76	43.28	6.2 Y	4.2/5

Cruise No: 2008801

Station: 72

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1475.27	1459.62	19.1
15	1486.62	1483.22	14.83
25	1480.93	1491.26	14.82

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

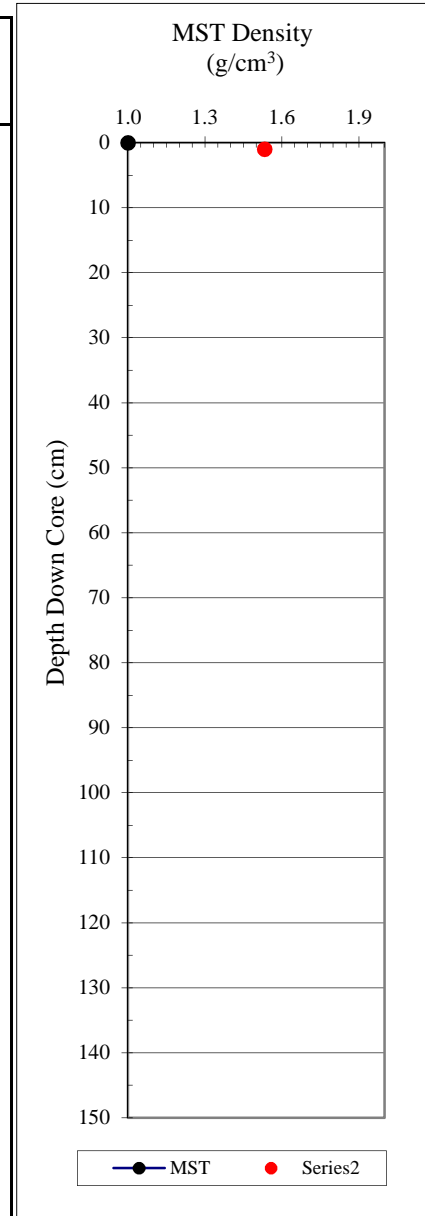
Station: 73

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.533	0.845	67.104	2.570	2.040	44.837	81.280
4	1.798	1.236	54.812	2.736	1.213	31.224	45.400

Cruise No: 2008801

Station: 73

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.533	0.845	67.104	2.570	2.040	44.837	81.280
4	1.798	1.236	54.812	2.736	1.213	31.224	45.400

Cruise No: 2008801
 Station: 73
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	8.91	0.57	15.60
15	3.77	4.34	0.87
25	9.37		

Cruise No: 2007802
 Station: 73
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 73
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 73

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	43.4	1.22	4.06	3.3 Y	4.2/.6
5	42.19	0.88	3.52	4.2 Y	4.1/.5
10	41.02	0.81	3.61	4.6 Y	4.0/.5
15	34.89	-0.66	-0.89	9.1 B	3.4/.2
20	35.88	-0.46	-0.46	6.7 B	3.5/.1
25	35.74	-0.51	-1.07	2.4 PB	3.5/.2

Cruise No: 2008801

Station: 73

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1536.89	1567.73	14.47
15	1486.62	1487.23	14.49

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.677	1.083	58.066	2.582	1.385	35.450	54.919
17	1.668	1.022	63.087	2.767	1.709	38.740	63.239

Cruise No: 2008801

Station: 75

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.677	1.083	58.066	2.582	1.385	35.450	54.919
17	1.668	1.022	63.087	2.767	1.709	38.740	63.239

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	5.60	1.14	4.91
15	4.00		
25	3.31		
35	5.14	1.14	4.51

Cruise No: 2007802

Station: 75

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.79

Cruise No: 2007802

Station: 75

Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 75

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.68	2.91	45.17	4.2 Y	4.4/4
5	0.7	3.1	44.34	4.4 Y	4.3/4
10	0.41	2.43	44.04	5.7 Y	4.3/3
15	0.24	2.21	42.57	7.0 Y	4.1/3
20	0.27	2.13	42.01	6.7 Y	4.1/3
25	0.65	3.2	43.74	4.8 Y	4.2/4
30	0.54	3.11	42.24	5.3 Y	4.1/4
35	0.15	2.08	41.98	7.5 Y	4.1/3

Cruise No: 2008801

Station: 75

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1495.25	1491.26	14.08
15	1515.79	1520.1	14.15
25	1506.92	1491.26	14.22
35	1509.86	1491.26	14.28

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

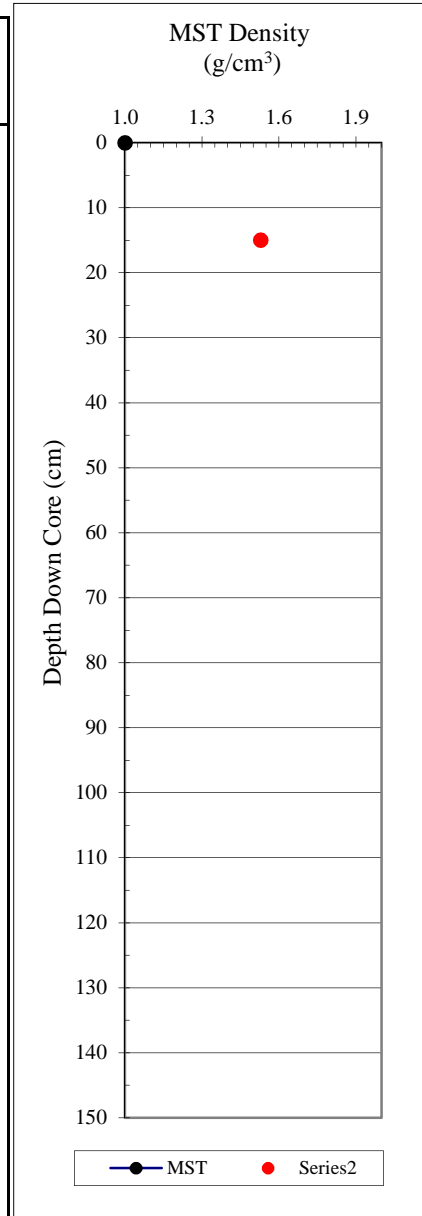
Station: 76

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.530	0.875	63.915	2.426	1.771	42.780	74.763
** 34	1.572	0.897	65.895	2.631	1.932	42.921	75.194

Cruise No: 2008801

Station: 76

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.530	0.875	63.915	2.426	1.771	42.780	74.763
34	1.572	0.897	65.895	2.631	1.932	42.921	75.194

Cruise No: 2008801
 Station: 76
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
12	5.25	2.51	2.09
29	5.83	3.88	1.50

Cruise No: 2007802
 Station: 76
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
35	3.73

Cruise No: 2007802
 Station: 76
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 76

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	1.09	5.03	43.63	4.6 Y	4.2/.7
5	0.92	4.41	41.23	5.0 Y	4.0/.6
10	0.38	3	43.1	6.9 Y	4.2/.4
15	0.07	2.26	42.72	8.7 Y	4.1/.3
20	0.16	3.06	38.91	8.5 Y	3.8/.5
25	0.28	2.38	42.88	6.8 Y	4.2/.3
30	0.55	2.63	44	4.9 Y	4.3/.4

Cruise No: 2008801

Station: 76

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1486.62	1479.24	15.76
29	1483.77	1479.24	15.76

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA

**

**

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
20	1.476	0.716	74.224	2.778	2.880	51.490	106.143
44	1.548	0.869	66.255	2.576	1.963	43.840	78.061
63	1.634	0.968	65.077	2.770	1.864	40.787	68.880
87	1.615	0.971	62.936	2.619	1.698	39.901	66.393

Cruise No: 2008801

Station: 78

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
20	1.476	0.716	74.224	2.778	2.880	51.490	106.143
** 44	1.548	0.869	66.255	2.576	1.963	43.840	78.061
63	1.634	0.968	65.077	2.770	1.864	40.787	68.880
** 87	1.615	0.971	62.936	2.619	1.698	39.901	66.393

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	6.17	4.57	1.35
15	4.00		
25	5.83	1.71	3.40
37	5.48	1.83	3.00
48	5.60	1.14	4.90
55	3.54		
65	4.11	2.51	1.64
75	4.80	3.54	1.35
84	5.83	1.14	5.10

Cruise No: 2007802

Station: 78

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0	0.20
44	4.71
88	4.71

Cruise No: 2007802

Station: 78

Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 78

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.73	3.81	39.25	5.5 Y 3.8/5
5	0.35	2.54	42.17	6.8 Y 4.1/4
10	-0.02	2.28	38.8	9.3 Y 3.8/4
15	0.09	2.52	38.72	8.8 Y 3.8/4
20	0.71	4.19	40.94	6.0 Y 4.0/6
25	0.34	3.1	41.53	7.4 Y 4.0/4
30	0.48	3.22	41.21	6.4 Y 4.0/5
35	0.2	2.36	40.21	7.9 Y 3.9/3
40	-0.11	0.86	44.84	0.7 GY 4.3/1
45	0.55	2.82	42.71	5.2 Y 4.1/4
50	0.41	2.56	42.65	5.9 Y 4.1/4
55	0.55	3.07	43.35	5.5 Y 4.2/4
60	0.27	2.44	42.09	7.3 Y 4.1/3
65	0.47	2.63	42.61	5.7 Y 4.1/4
70	-0.2	1.31	39.14	1.2 GY 3.8/2
75	-0.45	0.78	36.37	5.8 GY 3.5/2
80	-0.38	0.32	38.48	8.8 GY 3.7/1
85	-0.2	0.9	40.23	1.9 GY 3.9/2

Cruise No: 2008801

Station: 78

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1480.93	1479.24	14.64
15	1475.27	1471.33	14.66
25	1475.27	1467.4	14.69
35	1478.09	1471.33	14.77
48	1486.62	1491.26	15.31
55	1483.77	1479.24	15.3
65	1501.06	1487.23	15.38
75	1486.62	1487.23	15.38

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

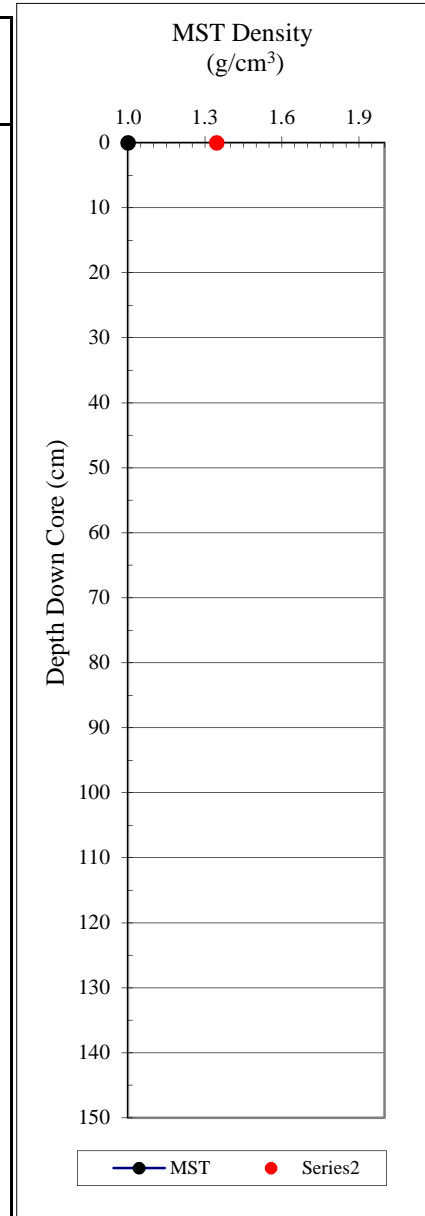
Station: 85

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801

Station: 85

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801
 Station: 85
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	4.23	2.74	1.54
15	8.68	2.17	4.00
24	7.54		

Cruise No: 2007802
 Station: 85
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
31	7.06

Cruise No: 2007802
 Station: 85
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 85

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.82	3.8	40.54	4.8 Y	3.9/5
5	0.15	2.12	40.4	8.2 Y	3.9/3
10	0.39	2.53	43.01	6.3 Y	4.2/4
15	0.53	2.9	44.12	5.5 Y	4.3/4
20	0.26	2.39	41.8	7.2 Y	4.0/3
25	-0.03	2.08	37.94	9.4 Y	3.7/3
30	0.23	2.02	42.61	7.1 Y	4.1/3

Cruise No: 2008801

Station: 85

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1475.27	1459.62	15.12
15	1486.62	1487.23	15.14

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

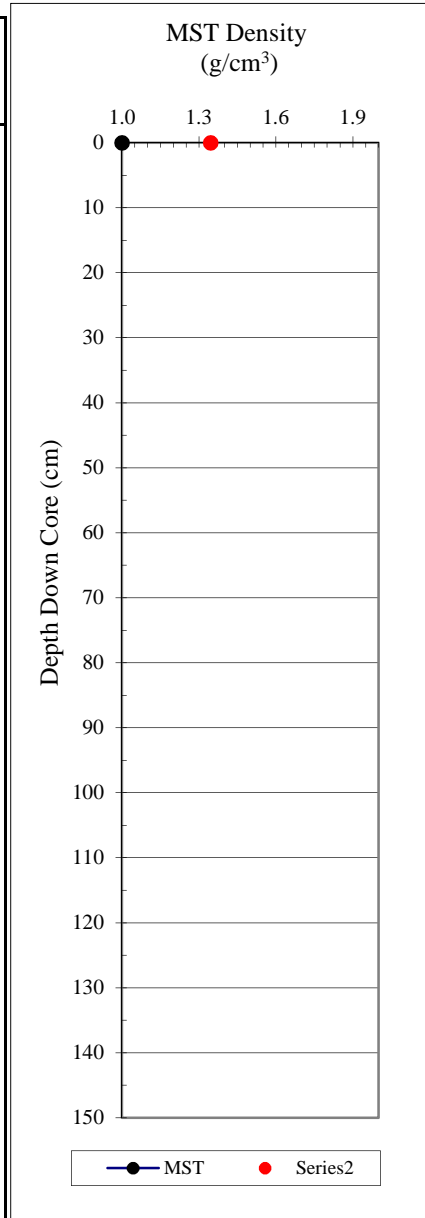
Station: 94

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801

Station: 24

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.617	0.967	63.453	2.646	1.736	40.185	67.183
4	1.654	0.999	64.017	2.775	1.779	39.633	65.654
10	1.650	0.992	64.245	2.775	1.797	39.872	66.311
** 27	1.669	1.047	60.724	2.666	1.546	37.257	59.380

Cruise No: 2008801
 Station: 94
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	5.37	2.86	1.88
15	5.71	3.31	1.72
23	7.77		

Cruise No: 2007802
 Station: 94
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
28	5.10

Cruise No: 2007802
 Station: 94
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 94

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	1.56	4.64	43.27	2.7 Y	4.2/.6
5	1.4	5.09	41.67	3.7 Y	4.0/.7
10	1.15	4.5	41.98	4.0 Y	4.1/.6
15	0.85	3.29	44.15	3.9 Y	4.3/.4
20	0.72	3.15	44.63	4.3 Y	4.3/.4
25	1.26	4.29	43.49	3.3 Y	4.2/.6

Cruise No: 2008801

Station: 94

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1492.37	1479.24	15.71
15	1495.25	1487.23	15.74

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

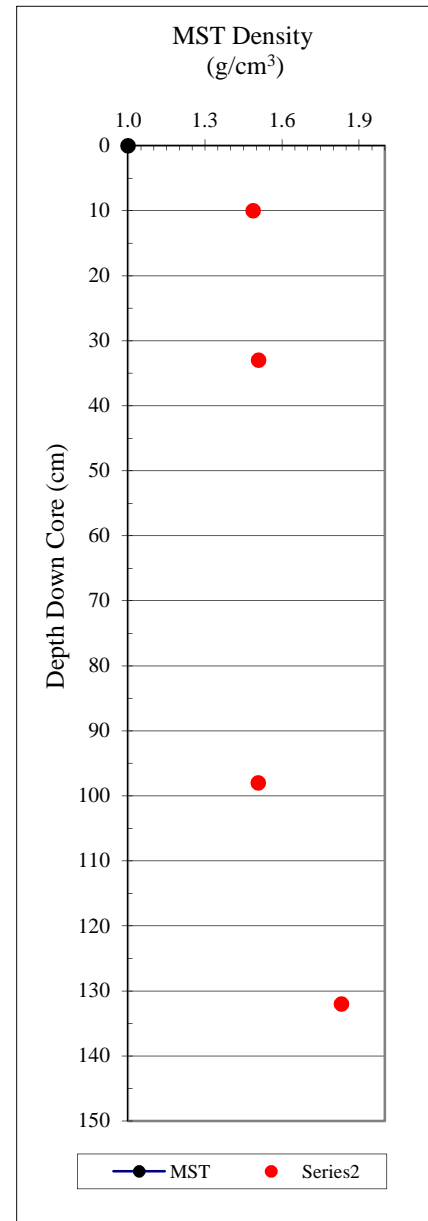
Station: 37

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
10	1.488	0.737	73.330	2.763	2.750	50.466	101.883
33	1.509	0.768	72.318	2.775	2.612	49.081	96.392
98	1.507	0.763	72.671	2.791	2.659	49.380	97.549
** 132	1.832	1.272	54.654	2.806	1.205	30.549	43.986

Cruise No: 2008802

Station: 37

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

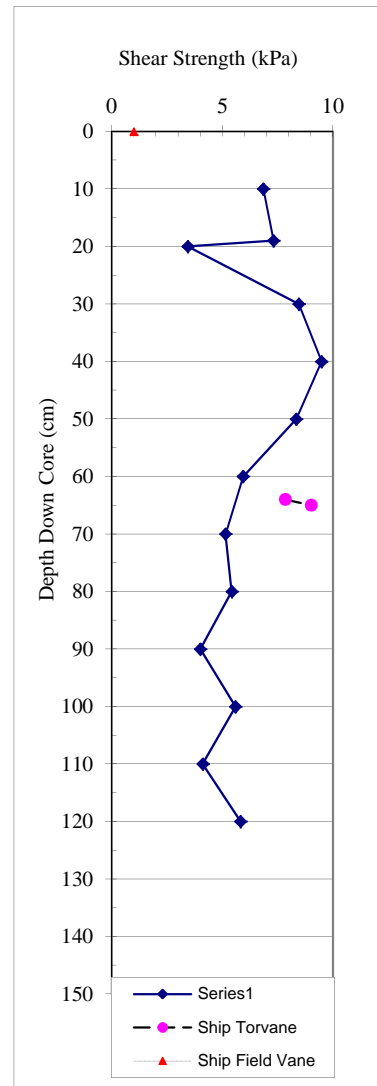
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
10	1.488	0.737	73.330	2.763	2.750	50.466	101.883
33	1.509	0.768	72.318	2.775	2.612	49.081	96.392
98	1.507	0.763	72.671	2.791	2.659	49.380	97.549
** 132	1.832	1.272	54.654	2.806	1.205	30.549	43.986

Cruise No: 2008802
 Station: 37
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	6.85	3.31	2.07
19	7.31	4.80	1.52
20	3.43	1.44	2.38
30	8.45	4.80	1.76
40	9.48		
50	8.34		
60	5.94	2.74	2.17
70	5.14	2.28	2.25
80	5.43	2.66	
90	4.00		
100	5.60	2.51	
110	4.11		
120	5.83	1.14	



Cruise No: 2007802
 Station: 37
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

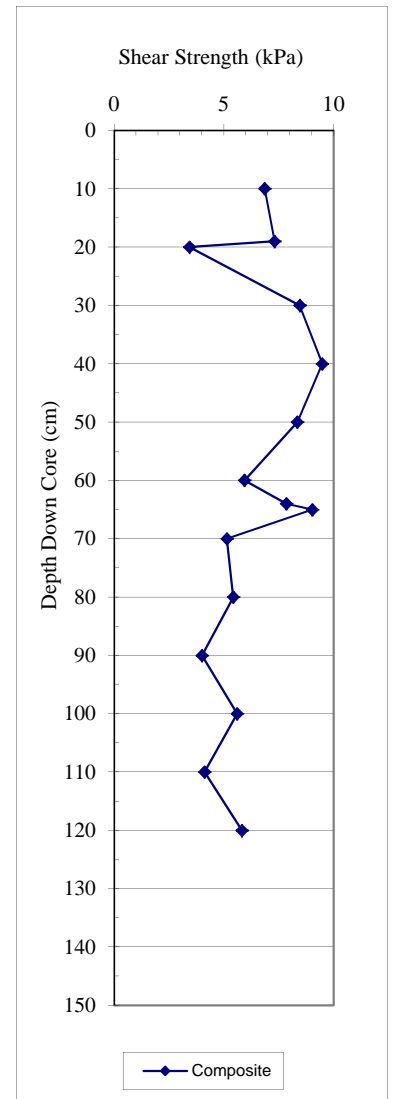
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
64	7.85
65	9.02

Cruise No: 2007802
 Station: 37
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
10	6.85	3.31
19	7.31	4.80
20	3.43	1.44
30	8.45	4.80
40	9.48	
50	8.34	
60	5.94	2.74
64	7.85	
65	9.02	
70	5.14	2.28
80	5.43	2.66
90	4.00	
100	5.60	2.51
110	4.11	
120	5.83	1.14



Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.27	2.87	41.5	7.6 Y 4.0/4
5	0.03	2.57	40.93	8.9 Y 4.0/4
10	-0.27	0.92	43.42	3.0 GY 4.2/2
15	0.23	3.04	40.97	8.0 Y 4.0/4
20	0.32	2.94	43.21	7.4 Y 4.2/4
25	-0.1	2.15	37.7	0.1 GY 3.7/4
30	-0.43	0.97	37.71	5.2 GY 3.7/2
35	-0.15	1.44	39.36	0.8 GY 3.8/2
40	-0.19	1.54	37.64	0.9 GY 3.7/3
45	-0.1	1.37	40.58	0.4 GY 3.9/2
50	-0.51	0.68	37.42	6.6 GY 3.6/2
55	-0.11	1.39	40.19	0.4 GY 3.9/2
60	0.29	3.23	39.85	7.8 Y 3.9/5
65	0.17	2.25	41.55	7.9 Y 4.0/3
70	0.32	2.7	41.36	7.3 Y 4.0/4
75	-0.27	0.4	40.19	6.4 GY 3.9/1
80	0.1	1.72	40.45	8.2 Y 3.9/3
85	0.14	2	41.43	8.3 Y 4.0/3
90	-0.08	1.45	38.25	10.0 Y 3.7/2
95	0.18	2.54	38.59	8.2 Y 3.7/4
100	-0.21	1.37	37.03	1.6 GY 3.6/2
105	-0.33	1.02	38.6	3.7 GY 3.7/2
110	0.05	1.75	39.25	8.8 Y 3.8/3
115	0.32	2.75	41.06	7.3 Y 4.0/4
120	0	1.9	37.08	9.3 Y 3.6/3
125	-0.02	1.23	42.49	9.6 Y 4.1/2
130	0.12	2.55	39.43	8.5 Y 3.8/4

Cruise No: 2008802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1450.45	1459.75	7.54
20	1448.13	1459.05	8.83
30	1450.84	1470.65	9.04
40	1450.84	1474.56	9.13
50	1450.84	1474.56	9.3
60	1456.28	1451.42	9.39
70	1456.28	1462.9	11.19
80	1456.28	1470.65	11.24
90	1456.28	1470.65	11.47
100	1456.28	1470.65	11.38
110	1450.84	1470.65	11.88
120	1456.28	1478.48	11.94

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

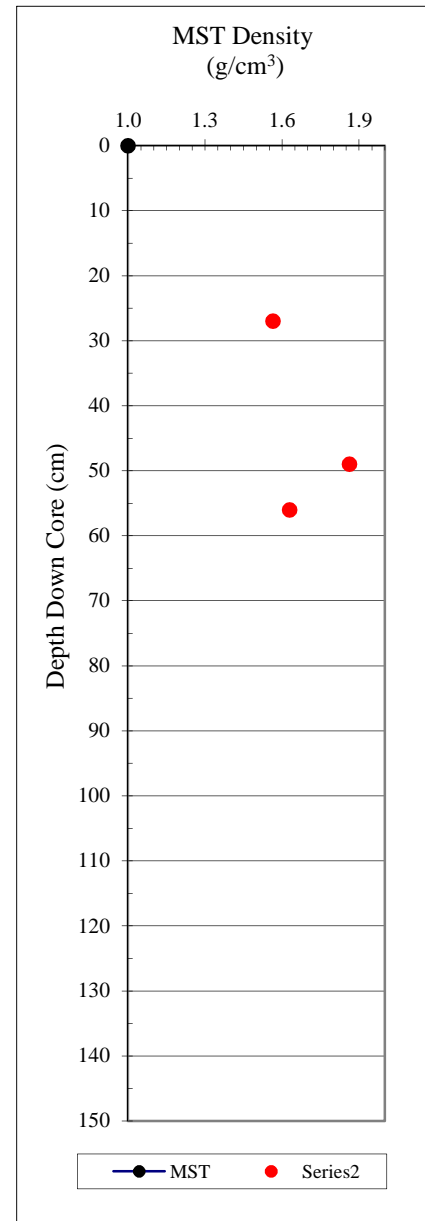
Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
27	1.565	0.858	69.001	2.769	2.226	45.153	82.326
49	1.863	1.332	51.870	2.767	1.078	28.511	39.882
** 56	1.630	0.985	63.009	2.662	1.703	39.586	65.524

Cruise No: 2008802

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

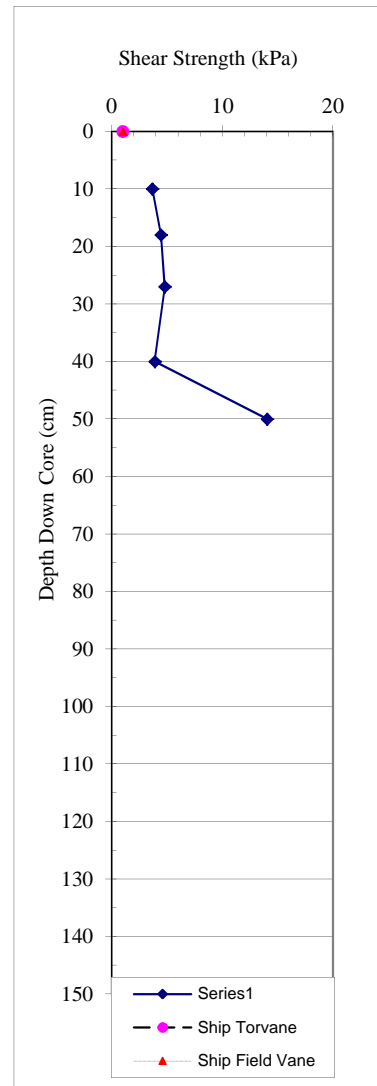
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
27	1.565	0.858	69.001	2.769	2.226	45.153	82.326
49	1.863	1.332	51.870	2.767	1.078	28.511	39.882
56	1.630	0.985	63.009	2.662	1.703	39.586	65.524

**

Cruise No: 2008802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.66	2.51	1.45
18	4.46		
27	4.80	1.71	2.80
40	3.88	2.63	1.48
50	14.05	4.34	3.24



Cruise No: 2007802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

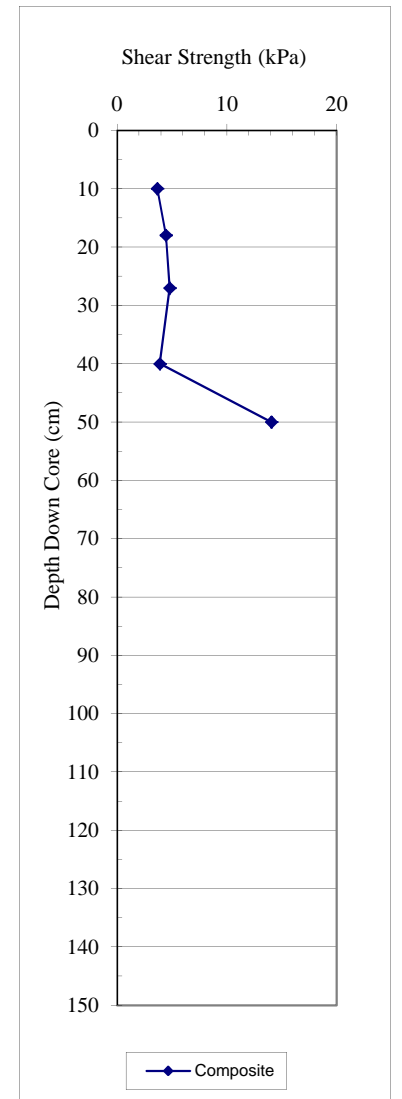
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
10	3.66	2.51
18	4.46	
27	4.80	1.71
40	3.88	2.63
50	14.05	4.34



Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.32	2.2	43.87	6.0 Y	4.2/3
5	1.05	4.29	40.09	4.4 Y	3.9/6
10	0.5	3.34	39.52	6.4 Y	3.8/5
15	0.23	2.5	38.37	7.7 Y	3.7/4
20	-0.16	1.04	37.84	0.8 GY	3.7/2
25	0.2	2.2	41.41	7.6 Y	4.0/3
30	0.13	2.28	40.35	8.2 Y	3.9/3
35	-0.46	-0.84	32.22	2.0 PB	3.1/2
40	0.15	2.28	39.81	7.9 Y	3.9/3
45	-0.42	-0.83	28.1	2.5 PB	2.7/2
50	0.13	2.16	40.3	7.9 Y	3.9/3
55	0.62	3.16	42.03	5.0 Y	4.1/4

Cruise No: 2008802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1467.3	1482.43	12.52
27	1461.77	1482.43	12.7
40	1464.53	1482.43	12.84
50		1579.45	12.91

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

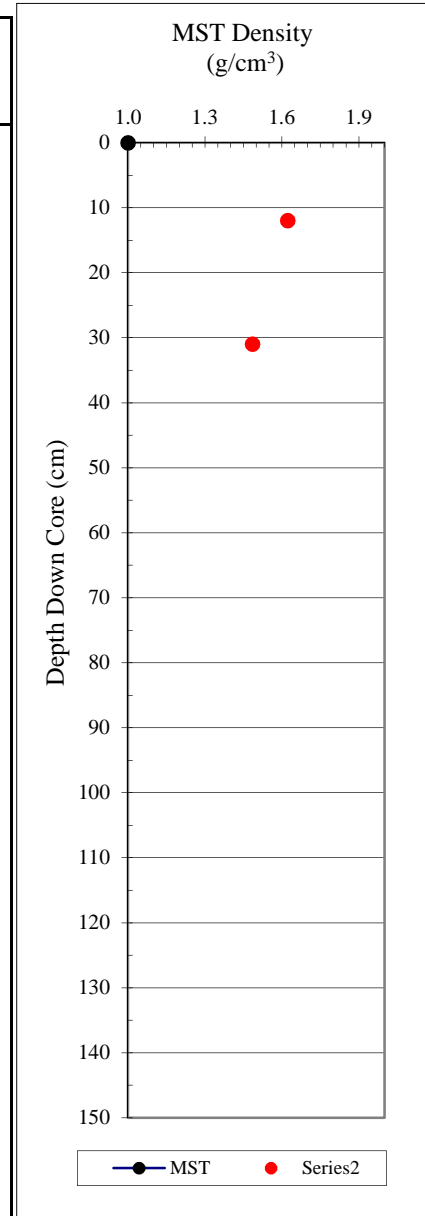
Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
12	1.6224	0.9548	65.1928	2.7431	1.873	41.1477	69.917
** 31	1.485	0.755	71.309	2.632	2.485	49.159	96.691

Cruise No: 2008802

Station: 40

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
12	1.6224	0.9548	65.1928	2.7431	1.873	41.1477	69.917
31	1.485	0.755	71.309	2.632	2.485	49.159	96.691

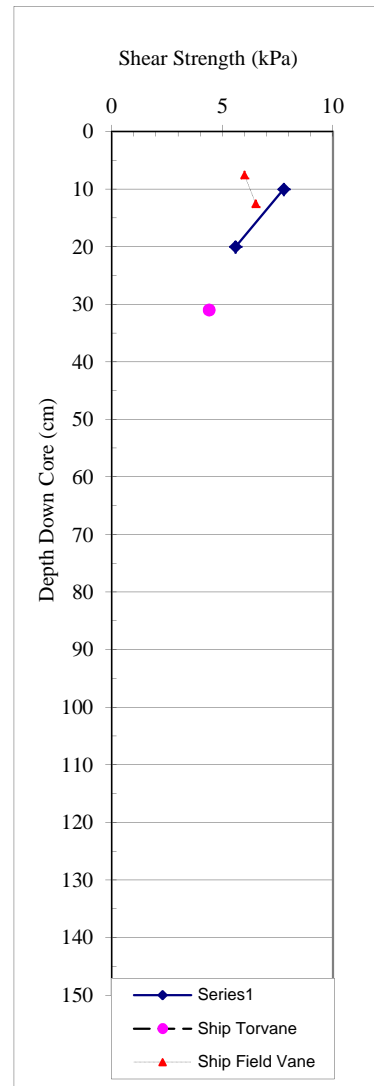
**

Cruise No: 2008802
 Station: 40
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	10	7.77	
20	5.60	1.60	3.50

Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
31	4.40

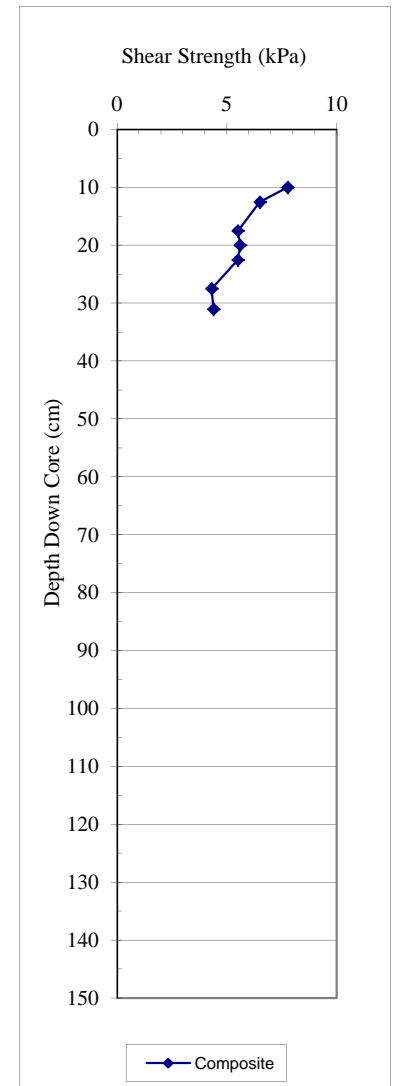


Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	6.00
12.5	6.50
17.5	5.50
22.5	5.50
27.5	4.30

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	7.5	6.00
10	7.77	2.86
12.5	6.50	
17.5	5.50	
20	5.60	1.60
22.5	5.50	
27.5	4.30	
31	4.40	



Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	44.69	2.5	6.66	1.9 Y 4.3/9
5	43.28	1.43	4.12	2.8 Y 4.2/6
10	41.93	2.62	8.88	3.0 Y 4.0/1.2
15	43.3	0.84	3.1	3.8 Y 4.2/4
20	40.91	1.17	4.18	3.9 Y 3.9/6
25	41.68	0.83	3.42	4.4 Y 4.0/5

Cruise No: 2008802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1481.31	1506.57	11.11
20	1475.67	1486.4	11.2

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

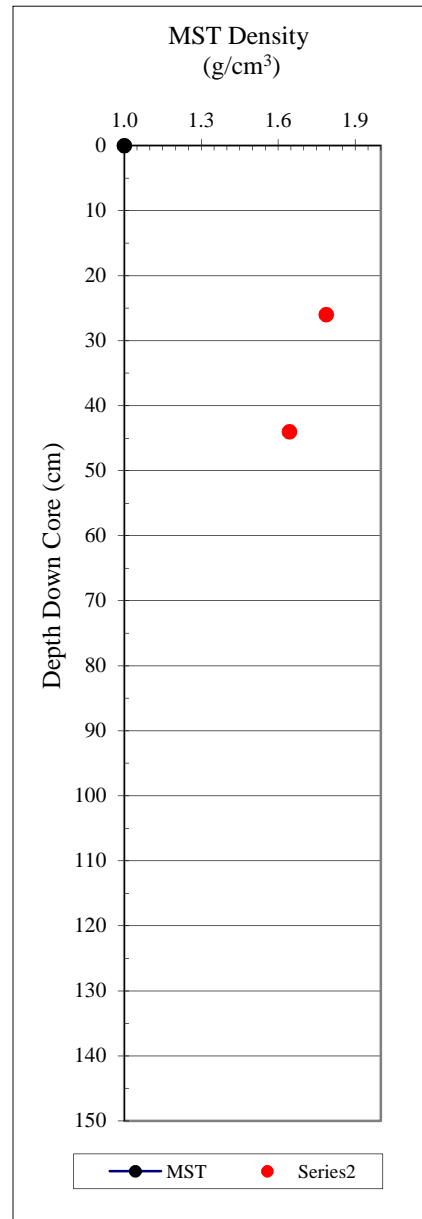
Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
26	1.7879	1.2425	53.2558	2.6581	1.1393	30.5023	43.8896
** 44	1.645	0.980	64.958	2.795	1.854	40.442	67.904

Cruise No: 2008802

Station: 42

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
26	1.7879	1.2425	53.2558	2.6581	1.1393	30.5023	43.8896
44	1.645	0.980	64.958	2.795	1.854	40.442	67.904

**

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
12	4.68	2.28	2.05
20	9.37		
22	6.97	4.23	1.65
30	9.25	2.63	3.52

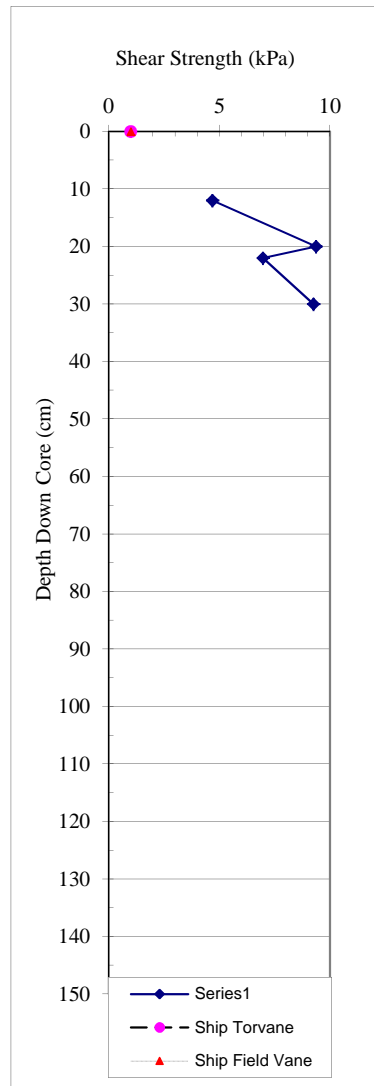
Cruise No: 2007802

Station: 42

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
NA	NA



Cruise No: 2007802

Station: 42

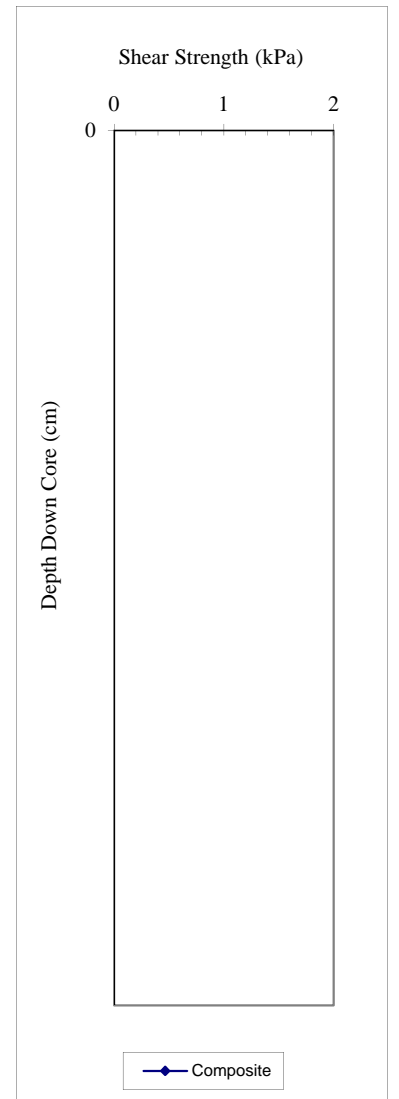
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)



Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.1	3.56	42.3	3.2 Y 4.1/5
5	1.28	4.11	41.09	3.4 Y 4.0/6
10	1.48	4.16	40.63	2.5 Y 3.9/6
15	0.56	2.86	40.03	5.1 Y 3.9/4
20	0.94	3.52	39.92	4.0 Y 3.9/5
25	0.95	3.16	41.51	3.5 Y 4.0/4
30	0.97	3.67	41.86	3.8 Y 4.0/5
35	0.87	3	40.57	3.7 Y 3.9/4
40	1.32	3.72	42.41	2.1 Y 4.1/5

Cruise No: 2008802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1540	1561	10.9
20	1546	1570	13.2
30	1453	1561	13.5

Cruise No: 2008802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

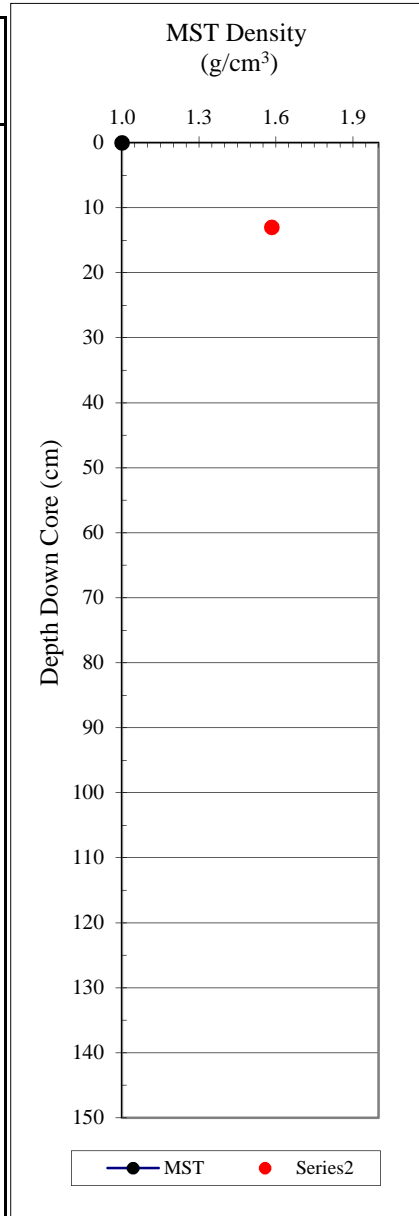
Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
13	1.5846	0.8917	67.6613	2.7574	2.0923	43.7254	77.7001

Cruise No: 2008802

Station: 43

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: Push Core

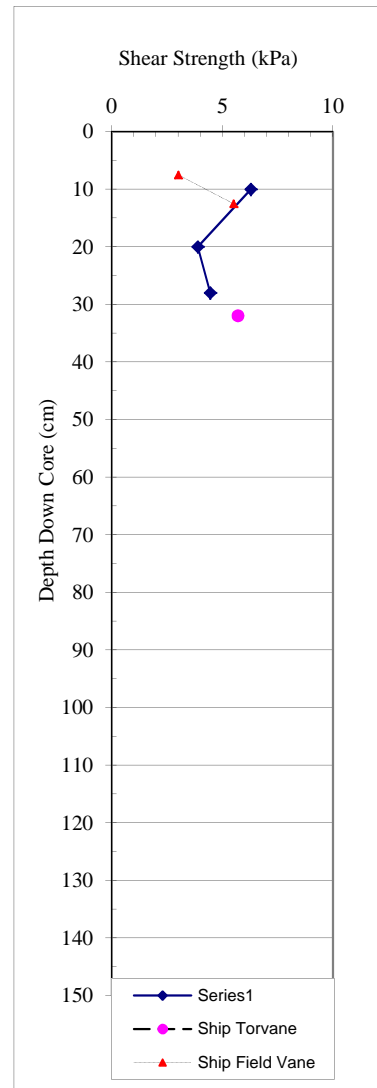
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
13	1.5846	0.8917	67.6613	2.7574	2.0923	43.7254	77.7001

Cruise No: 2008802
 Station: 43
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	6.28	3.66	1.72
20	3.88	2.28	1.70
28	4.46	4.34	1.03



Cruise No: 2007802
 Station: 43
 Sample Type: Push Core
 Data Type: Shipboard Torvane

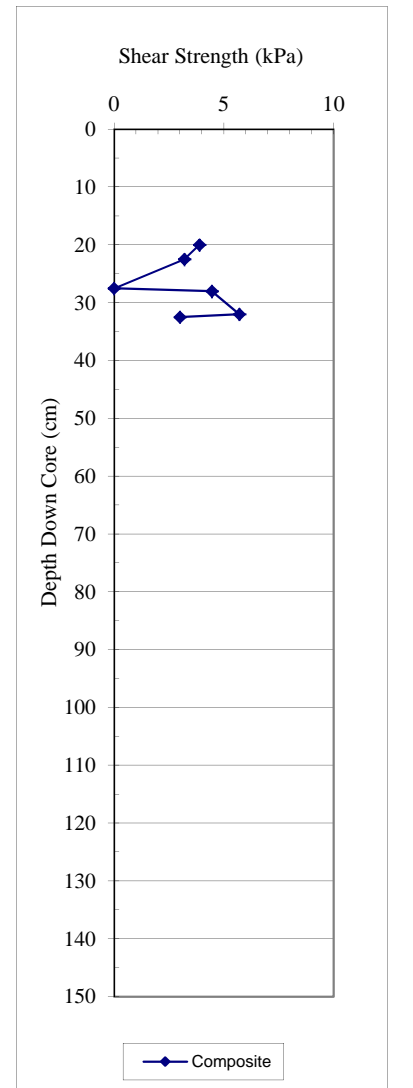
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
32	5.70

Cruise No: 2007802
 Station: 43
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.00
12.5	5.50
17.5	5.25
22.5	3.20
27.5	0.00
32.5	3.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.00	
10	6.28	3.66
12.5	5.50	
17.5	5.25	
20	3.88	2.28
22.5	3.20	
27.5	0.00	
28	4.46	4.34
32	5.70	
32.5	3.00	



Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.95	2.93	8.02	2.1 Y	4.0/1.1
5	41.69	2.57	7.94	2.7 Y	4.0/1.1
10	41.42	1.07	3.86	4.1 Y	4.0/5
15	44.09	0.68	2.81	4.4 Y	4.3/4
20	42.04	1.01	3.94	4.3 Y	4.1/5
25	41.51	0.87	4.06	4.9 Y	4.0/6
30	41.94	0.69	4.23	6.0 Y	4.1/6

Cruise No: 2008802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1472.87	1494.41	12.21
20	1464.53	1474.56	12.29

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

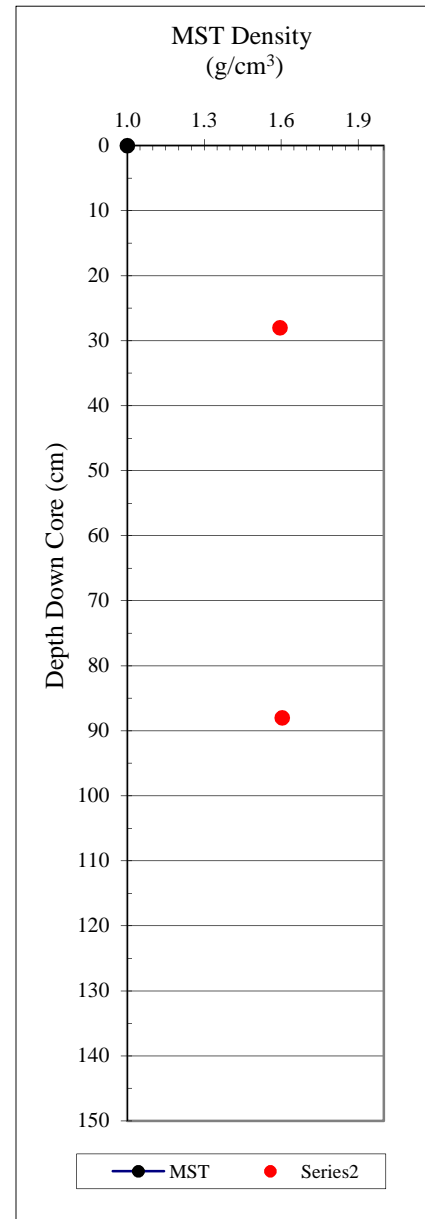
Station: 45

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
28	1.5955	0.9036	67.5655	2.7861	2.0831	43.3635	76.5646
88	1.605	0.917	67.214	2.795	2.050	42.889	75.098
** 116	1.504	0.819	66.898	2.475	2.021	45.538	83.614

Cruise No: 2008802

Station: 45

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

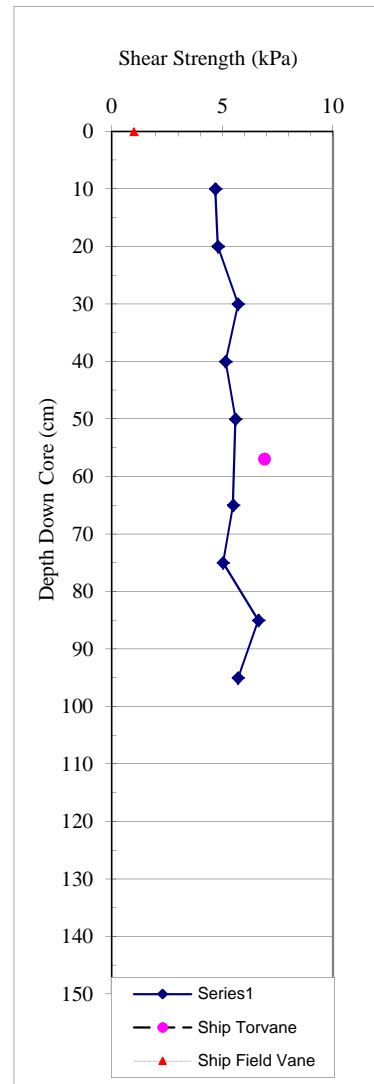
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
28	1.5955	0.9036	67.5655	2.7861	2.0831	43.3635	76.5646
88	1.605	0.917	67.214	2.795	2.050	42.889	75.098
116	1.504	0.819	66.898	2.475	2.021	45.538	83.614

**

Cruise No: 2008802
 Station: 45
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	10	4.68	
20	4.80	1.94	2.47
30	5.71	2.86	2.00
40	5.14	2.40	2.14
50	5.60	1.49	3.77
65	5.48	1.94	2.82
75	5.03	3.66	1.38
85	6.63	1.83	3.63
95	5.71	1.03	5.56



Cruise No: 2007802
 Station: 45
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

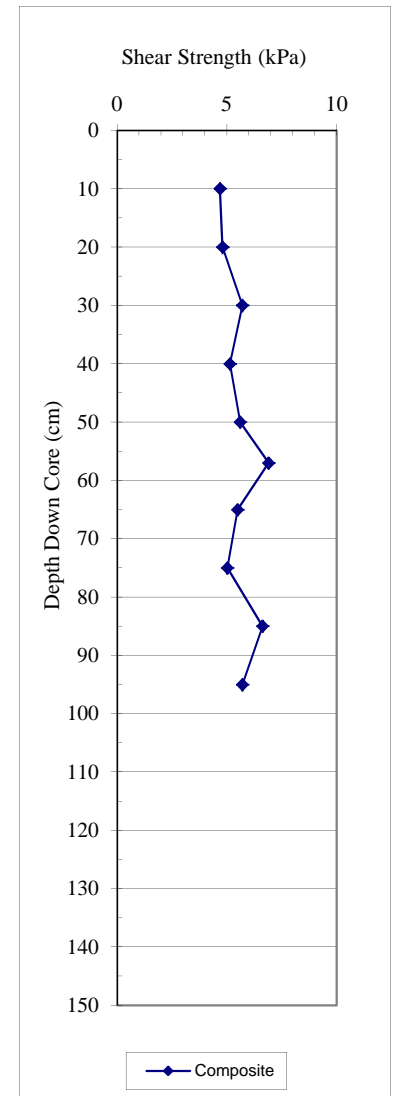
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
57	6.90

Cruise No: 2007802
 Station: 45
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	10	4.68
20	4.80	1.94
30	5.71	2.86
40	5.14	2.40
50	5.60	1.49
57	6.90	
65	5.48	1.94
75	5.03	3.66
85	6.63	1.83
95	5.71	1.03



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.88	3.5	42.7	4.3 Y	4.1/.5
5	0.74	3.41	42.25	4.8 Y	4.1/.5
10	0.98	4.1	41.27	4.5 Y	4.0/.6
15	0.67	3.48	41.28	5.2 Y	4.0/.5
20	0.65	2.81	44.25	4.4 Y	4.3/.4
25	0.54	2.8	44.19	5.0 Y	4.3/.4
30	0.58	3.04	42.38	5.1 Y	4.1/.4
35	0.76	3.78	40.77	5.0 Y	3.9/.5
40	0.81	3.65	43.16	4.6 Y	4.2/.5
45	0.84	3.76	42.27	4.6 Y	4.1/.5
50	0.66	3.03	42.38	4.8 Y	4.1/.4
55	0.82	3.59	43.16	4.6 Y	4.2/.5
60	0.54	3.14	39.35	5.7 Y	3.8/.4
65	0.74	3.58	40.74	4.9 Y	3.9/.5
70	0.75	3.75	39.99	5.0 Y	3.9/.5
75	0.82	3.87	40.16	4.8 Y	3.9/.5
80	0.65	3.42	40.96	5.3 Y	4.0/.5
85	0.64	2.92	40.61	4.8 Y	3.9/.4
90	0.63	3.57	39.99	5.5 Y	3.9/.5
95	0.73	3.63	41	4.9 Y	4.0/.5
100	0.8	3.88	40.61	4.9 Y	3.9/.5
105	0.85	3.91	40.91	4.7 Y	4.0/.5
110	0.87	3.79	40.68	4.5 Y	3.9/.5

Cruise No: 2008802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1478.48	1486.4	11.66
20	1467.3	1478.48	11.75
30	1470.08	1498.44	11.87
40	1464.53	1478.48	11.93
50	1470.08	1490.39	12.15
65	1478.48	1498.44	21.25
75	1475.67	1498.44	14.23
85	1475.67	1498.44	14.34
95	1470.08	1490.39	14.54

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

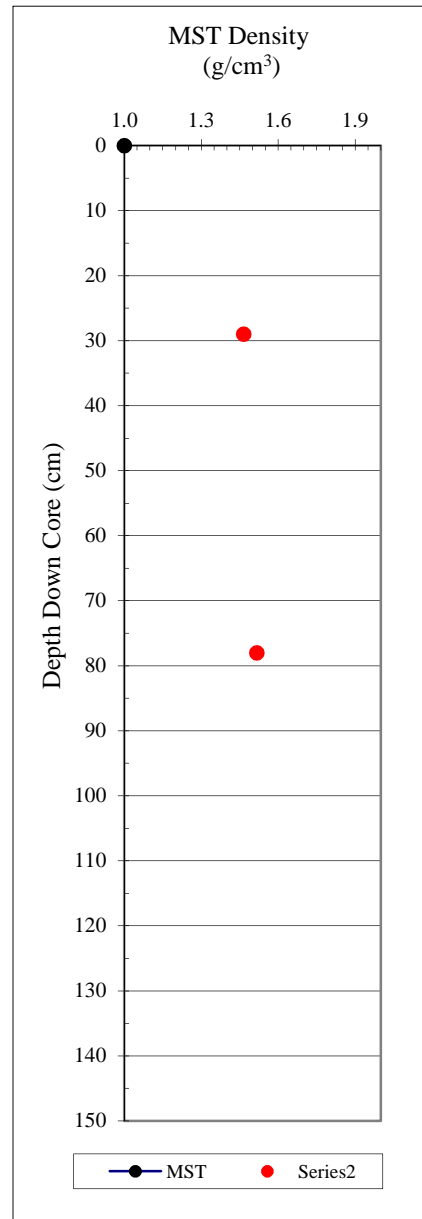
Station: 46

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
29	1.4663	0.7045	74.3934	2.7513	2.9052	51.9533	108.131
78	1.517	0.783	71.648	2.763	2.527	48.361	93.652
** 110	1.489	0.741	73.046	2.749	2.710	50.233	100.937

Cruise No: 2008802

Station: 46

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
29	1.4663	0.7045	74.3934	2.7513	2.9052	51.9533	108.131
78	1.517	0.783	71.648	2.763	2.527	48.361	93.652
110	1.489	0.741	73.046	2.749	2.710	50.233	100.937

**

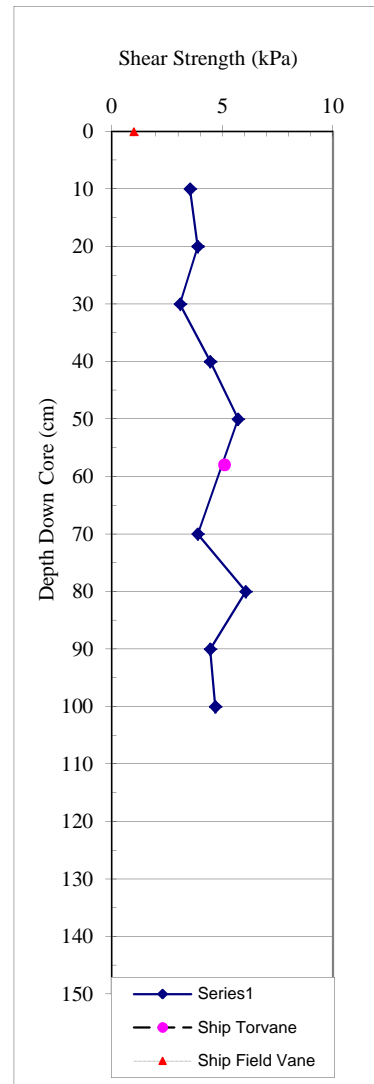
Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	3.54	2.17	1.63
20	3.88	3.54	1.10
30	3.08	1.94	1.59
40	4.46	1.71	2.60
50	5.71	1.94	2.94
70	3.88	2.17	1.79
80	6.05	1.26	4.82
90	4.46		
100	4.68	1.83	2.56



Cruise No: 2007802

Station: 46

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
58	5.10

Cruise No: 2007802

Station: 46

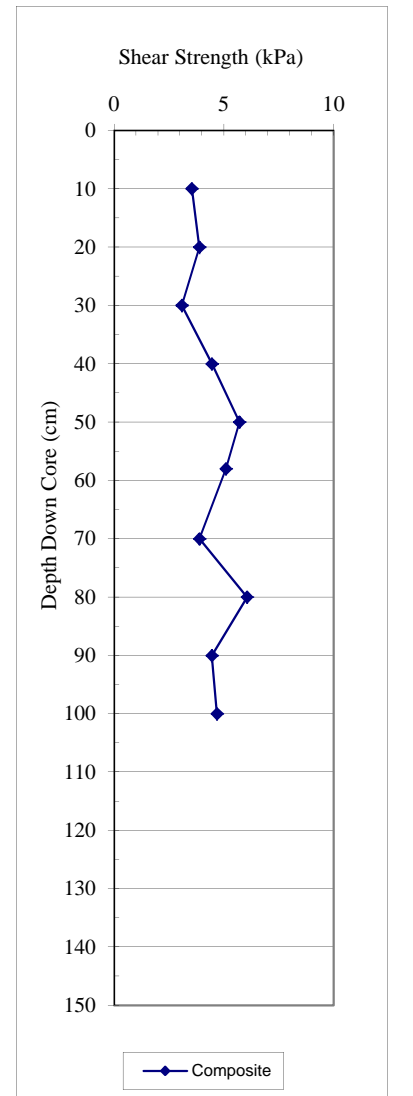
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
10	3.54	2.17
20	3.88	3.54
30	3.08	1.94
40	4.46	1.71
50	5.71	1.94
58	5.10	2.17
70	3.88	1.26
80	6.05	
90	4.46	
100	4.68	1.83



Cruise No: 2007802

Station: 46

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.49	1.11	5.25	4.8 Y	4.0/7
5	40.55	1.03	5.11	5.1 Y	3.9/7
10	40.6	1.19	5.97	5.0 Y	3.9/8
15	40.86	1.13	4.65	4.5 Y	3.9/6
20	43.91	0.83	3.12	3.9 Y	4.2/4
25	41.09	0.74	4.13	5.6 Y	4.0/6
30	40.66	0.25	2.56	7.6 Y	3.9/4
35	41.23	0.58	3.83	6.3 Y	4.0/5
40	39.69	0.55	3.83	6.6 Y	3.8/5
45	40.16	0.43	3.6	7.1 Y	3.9/5
50	41.32	0.73	3.79	5.4 Y	4.0/5
55	41.85	0.67	3.81	5.8 Y	4.0/5
60	39.33	0.09	1.76	8.4 Y	3.8/3
65	39.55	0.13	2.53	8.2 Y	3.8/4
70	41.66	0.61	2.97	5.0 Y	4.0/4
75	40.93	0.63	3.75	6.0 Y	4.0/5
80	37.82	-0.19	1.18	1.3 GY	3.7/2
85	35.81	-0.11	1.7	0.1 GY	3.5/3
90	43.6	0.14	2.37	8.2 Y	4.2/3
95	39.65	-0.21	1.24	1.3 GY	3.8/2
100	43.6	0.69	3.24	4.8 Y	4.2/4
105	43.41	0.18	2.34	7.8 Y	4.2/3

Cruise No: 2008802

Station: 46

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1464.53	1478.48	12.34
20	1467.3	1462.9	12.53
30	1459.02	1474.56	12.59
40	1459.02	1478.48	12.8
50	1461.77	1478.48	12.83
70	1464.53	1486.4	11.61
80	1461.77	1482.43	11.61
90	1456.28	1462.9	11.79

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

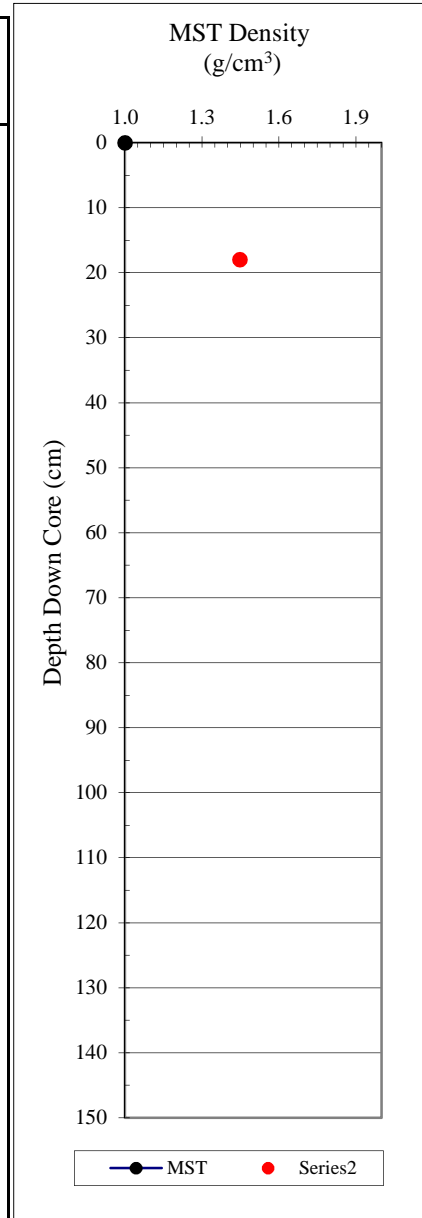
Station: 48

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.449	0.678	75.254	2.741	3.041	53.189	113.626
** 35	1.497	0.744	73.569	2.815	2.783	50.309	101.246

Cruise No: 2008802

Station: 48

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.449	0.678	75.254	2.741	3.041	53.189	113.626
35	1.497	0.744	73.569	2.815	2.783	50.309	101.246

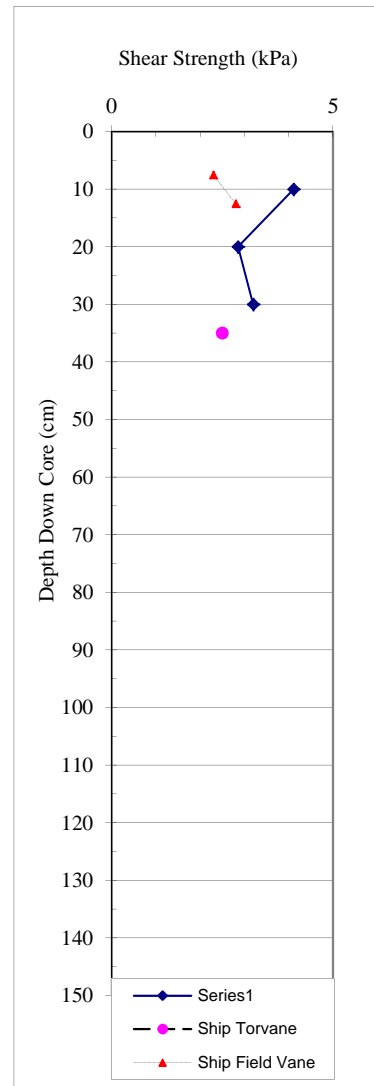
Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)	<u>Remoulded</u> <u>Undrained</u> Shear Shear (kPa)	Sensitivity
	10	4.11	
20	2.86	1.49	1.92
30	3.20	2.86	1.12



Cruise No: 2007802

Station: 48

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
35	2.50

Cruise No: 2007802

Station: 48

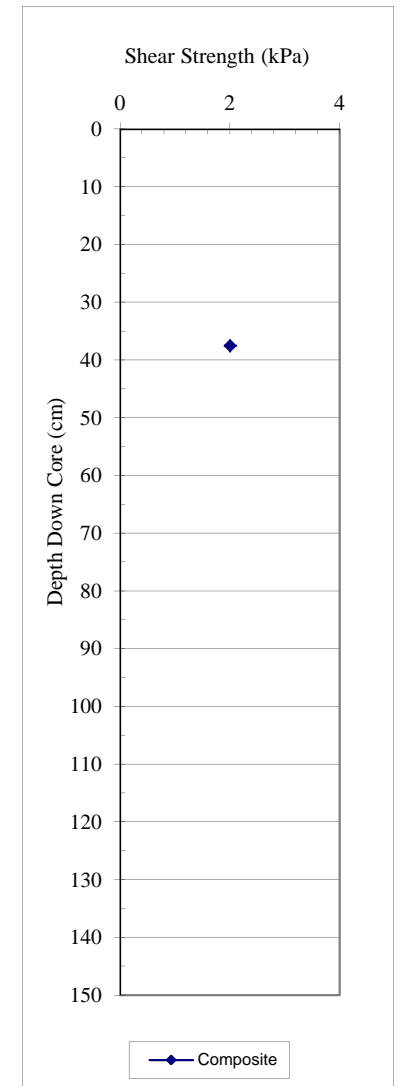
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.30
12.5	2.80
17.5	2.60
22.5	3.10
27.5	3.00
32.5	2.60
37.5	2.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)	<u>Remoulded</u> <u>Undrained</u> Shear Shear (kPa)
	7.5	2.30
10	4.11	2.40
12.5	2.80	
17.5	2.60	
20	2.86	1.49
22.5	3.10	
27.5	3.00	
30	3.20	2.86
32.5	2.60	
35	2.50	
37.5	2.00	



Cruise No: 2007802

Station: 48

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	41.8	2	6.78	3.3 Y 4.0/9
5	41.61	1.08	4.85	4.7 Y 4.0/7
10	40.84	0.9	4.74	5.5 Y 3.9/7
15	40.1	0.65	4.58	6.5 Y 3.9/7
20	39.59	1.59	6.95	4.6 Y 3.8/1.0
25	40.42	0.92	4.86	5.5 Y 3.9/7
30	40.61	0.83	4.34	5.5 Y 3.9/6

Cruise No: 2008802

Station: 48

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1456.28	1462.9	11.73
20	1450.84	1470.65	11.96
30	1456.28	1474.56	12.04

Cruise No: 2008802

Station: 49

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

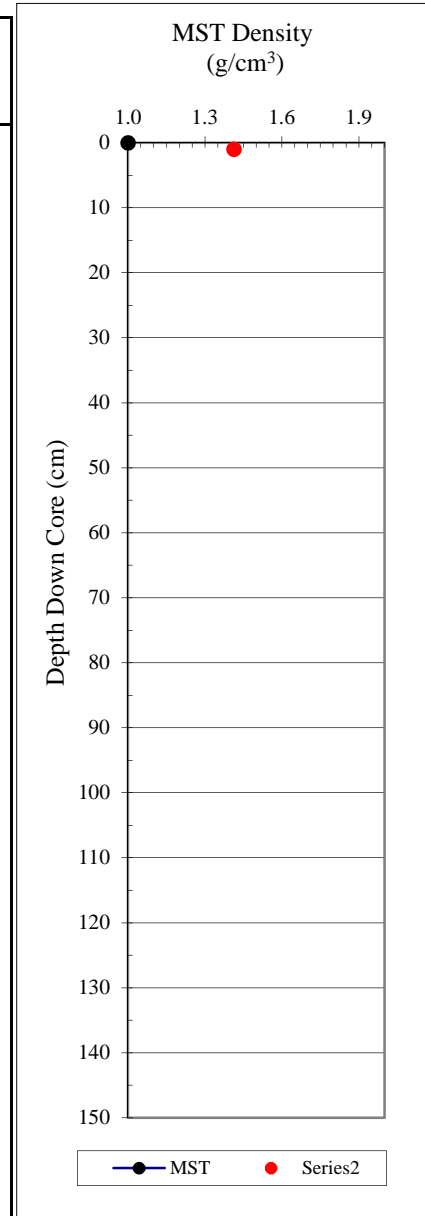
Station: 49

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.414	0.691	70.623	2.351	2.404	51.152	104.718
18	1.466	0.710	73.807	2.711	2.818	51.559	106.436
** 38	1.577	0.875	68.512	2.780	2.176	44.486	80.136

Cruise No: 2008802

Station: 49

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: Push Core

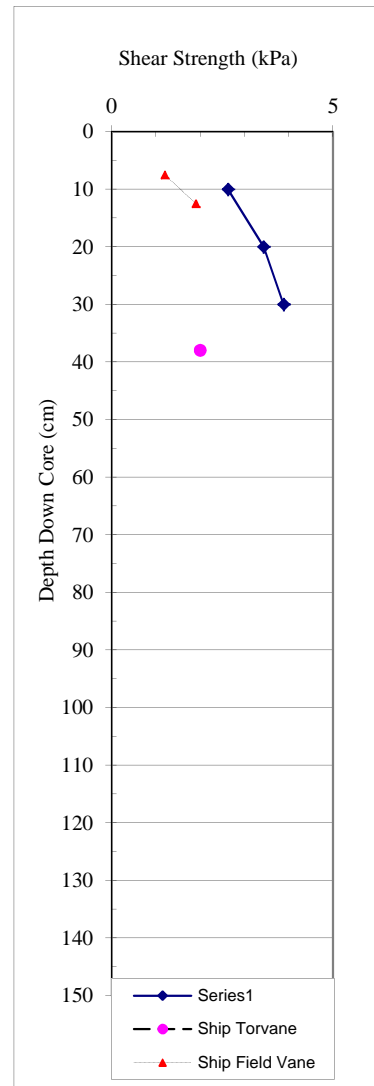
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.414	0.691	70.623	2.351	2.404	51.152	104.718
18	1.466	0.710	73.807	2.711	2.818	51.559	106.436
** 38	1.577	0.875	68.512	2.780	2.176	44.486	80.136

Cruise No: 2008802
 Station: 49
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	2.63		
20	3.43		
30	3.88	2.74	1.42



Cruise No: 2007802
 Station: 49
 Sample Type: Push Core
 Data Type: Shipboard Torvane

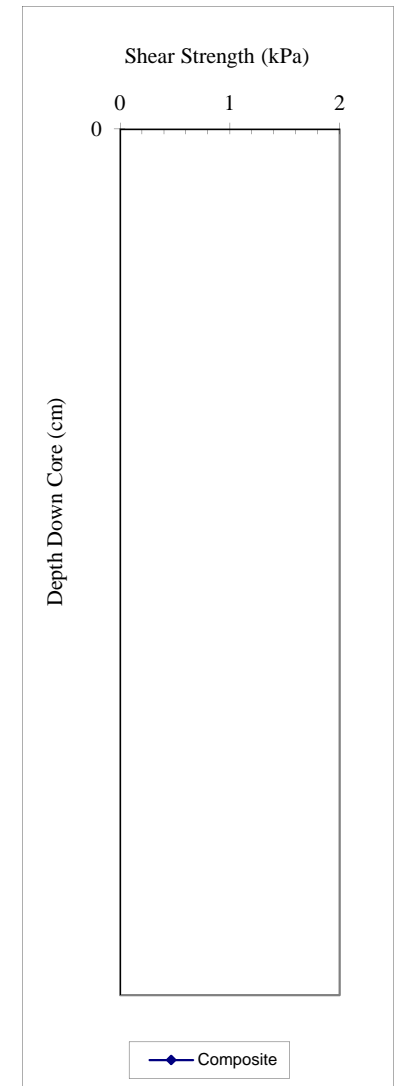
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
38	2.00

Cruise No: 2007802
 Station: 49
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.20
12.5	1.90
17.5	2.20
22.5	2.00
27.5	1.20

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.20	
10	2.63	
12.5	1.90	
17.5	2.20	
20	3.43	
22.5	2.00	
27.5	1.20	
30	3.88	2.74
38	2.00	



Cruise No: 2007802

Station: 49

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.84	6.65	40.16	3.8 Y 3.9/9
5	1.02	4.27	39.31	4.5 Y 3.8/6
10	1.23	5.57	40.32	4.7 Y 3.9/8
15	1.11	4.91	41.93	4.6 Y 4.0/7
20	0.85	4.43	41.2	5.4 Y 4.0/6
25	0.71	4.14	41.92	5.8 Y 4.0/6
30	0.66	3.96	40.88	6.0 Y 4.0/6
35	0.22	3.26	42.13	8.0 Y 4.1/5

Cruise No: 2008802

Station: 49

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1461.77	1470.65	12.11
20	1461.77	1478.48	12.23
30	1456.28	1474.56	12.34

Cruise No: 2008802

Station: 50

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

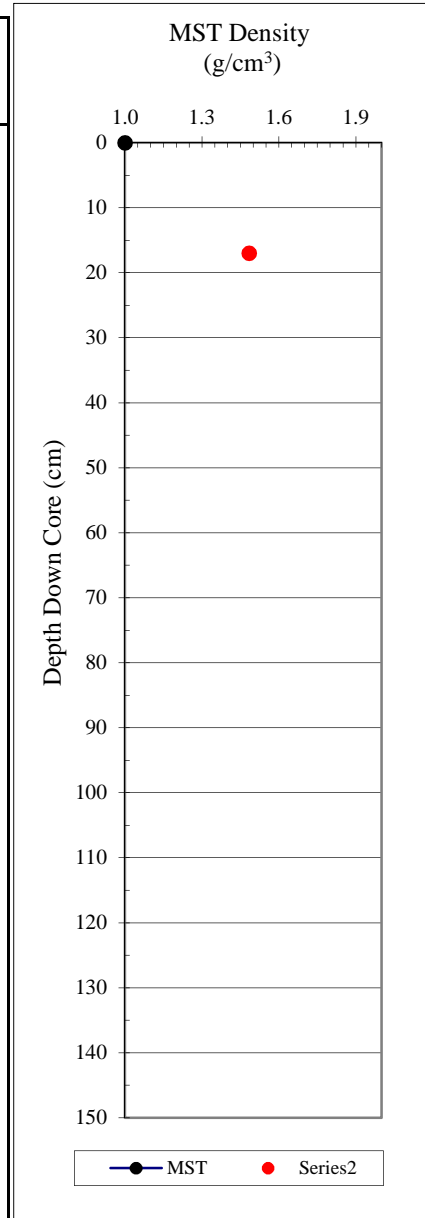
Station: 50

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
17	1.485	0.727	74.041	2.799	2.852	51.061	104.337

Cruise No: 2008802

Station: 50

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: Push Core

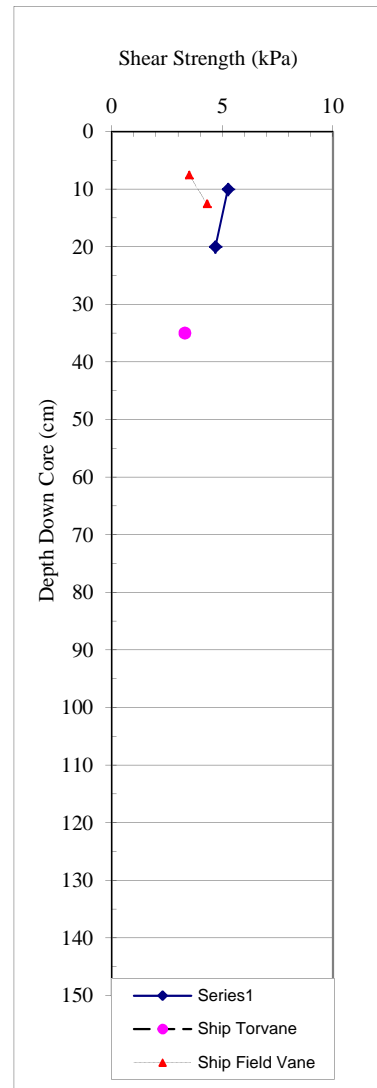
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
17	1.485	0.727	74.041	2.799	2.852	51.061	104.337

Cruise No: 2008802
 Station: 50
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	5.25	3.20	1.64
20	4.68	4.23	1.11



Cruise No: 2007802
 Station: 50
 Sample Type: Push Core
 Data Type: Shipboard Torvane

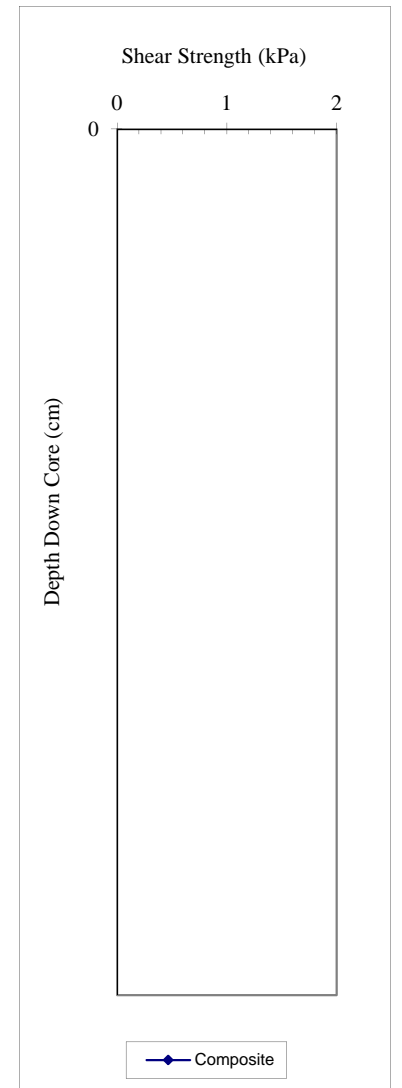
Depth Down Core (cm)	<u>Undrained</u> Shear
	(kPa)
35	3.30

Cruise No: 2007802
 Station: 50
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
7.5	3.50
12.5	4.30
17.5	4.50
22.5	4.80
27.5	4.50
32.5	4.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
7.5	3.50	
10	5.25	3.20
12.5	4.30	
17.5	4.50	
20	4.68	4.23
22.5	4.80	
27.5	4.50	
32.5	4.50	
35	3.30	



Cruise No: 2007802

Station: 50

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	42.13	0.77	4.41	5.6 Y 4.1/.6
5	43.2	0.39	2.87	6.4 Y 4.2/.4
10	44.04	0.9	3.78	4.3 Y 4.3/.5
15	43.53	0.7	3.28	4.7 Y 4.2/.4
20	41.64	0.55	3.37	5.9 Y 4.0/.5
25	41.66	0.5	3.64	6.6 Y 4.0/.5
30	39.55	0.99	5.09	5.4 Y 3.8/.7

Cruise No: 2008802

Station: 50

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1478.09	1487.23	17.45

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

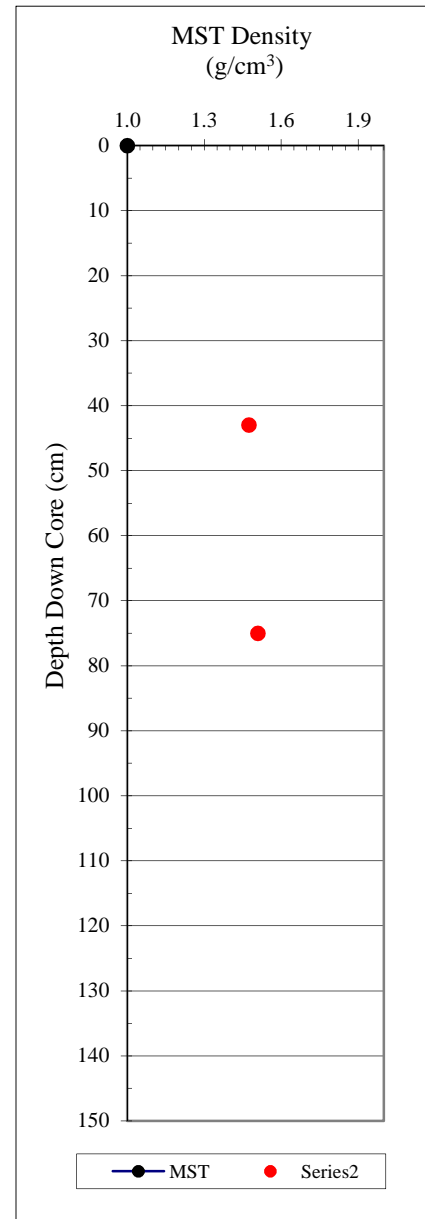
Station: 51

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
43	1.4744	0.7122	74.4246	2.7849	2.91	51.6907	106.9996
** 75	1.509	0.798	69.488	2.614	2.277	47.147	89.203
98	1.544	0.822	70.509	2.788	2.391	46.755	87.810
** 131	1.592	0.886	68.968	2.854	2.222	44.367	79.751

Cruise No: 2008802

Station: 51

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
43	1.4744	0.7122	74.4246	2.7849	2.91	51.6907	106.9996
** 75	1.509	0.798	69.488	2.614	2.277	47.147	89.203
98	1.544	0.822	70.509	2.788	2.391	46.755	87.810
** 131	1.592	0.886	68.968	2.854	2.222	44.367	79.751

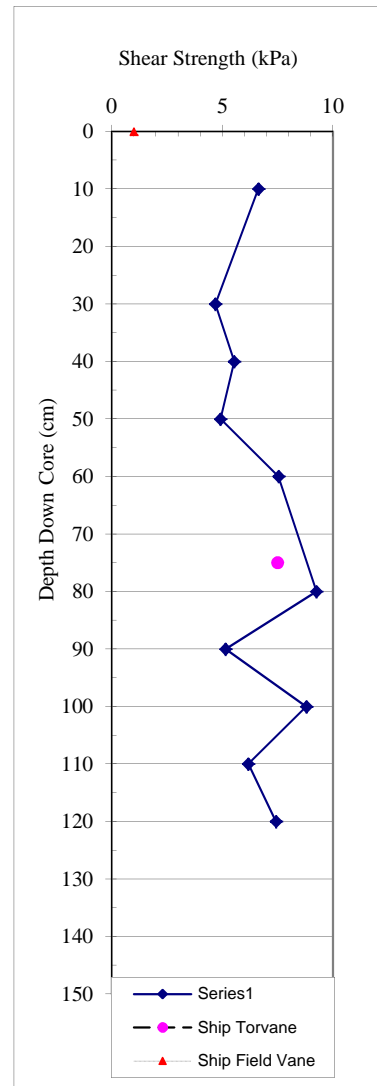
Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	6.63	3.31	2.00
30	4.68	2.63	1.78
40	5.54	1.99	2.78
50	4.91		
60	7.54	2.17	3.47
80	9.25	5.25	1.76
90	5.14		
100	8.80	4.34	2.03
110	6.17		
120	7.43	2.17	3.42



Cruise No: 2007802

Station: 51

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
75	7.50

Cruise No: 2007802

Station: 51

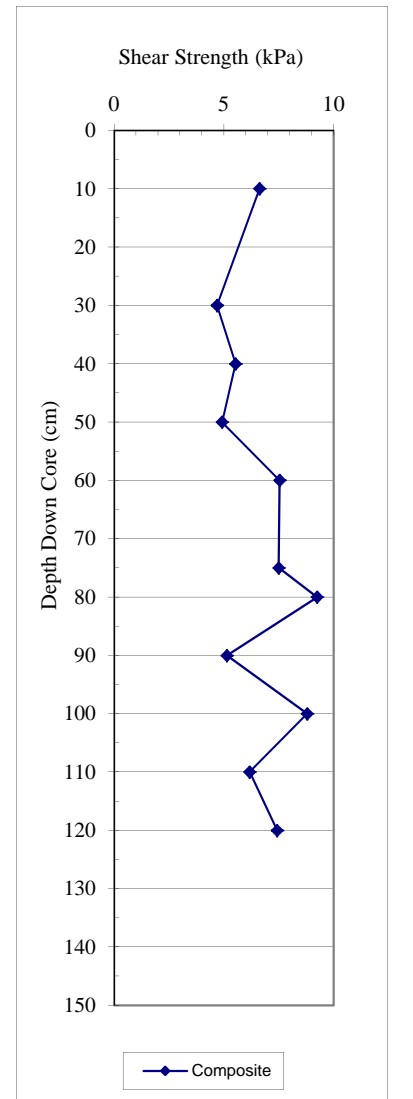
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
10	6.63	3.31
30	4.68	2.63
40	5.54	1.99
50	4.91	
60	7.54	2.17
75	7.50	
80	9.25	5.25
90	5.14	
100	8.80	4.34
110	6.17	
120	7.43	2.17



Cruise No: 2007802

Station: 51

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.5	3.18	40.5	6.1 Y	3.9/4
5	0.48	2.69	44.03	5.3 Y	4.3/4
10	0.43	2.63	41.56	5.9 Y	4.0/4
15	0.4	3.22	39.59	7.1 Y	3.8/5
20	-0.35	0.21	39.47	0.6 G	3.8/1
25	0.33	2.94	39.83	7.4 Y	3.9/4
30	0.07	1.69	43.23	8.4 Y	4.2/2
35	0.15	2.42	39.19	8.1 Y	3.8/4
40	0.03	2.08	38.42	8.8 Y	3.7/3
45	0.64	3.8	39.93	6.0 Y	3.9/5
50	0.1	2.16	40.34	8.4 Y	3.9/3
55	0.5	3.32	41.11	6.4 Y	4.0/5
60	0.4	3.07	41.88	6.7 Y	4.1/4
65	0.56	3.56	40.73	6.1 Y	3.9/5
70	0.35	2.54	40.6	6.5 Y	3.9/4
75	0.24	2.5	38.86	7.7 Y	3.8/4
80	-0.35	0.76	39.16	5.4 GY	3.8/2
85	0.15	2.13	41.41	7.9 Y	4.0/3
90	-0.14	0.6	41.93	2.3 GY	4.1/1
95	0.09	1.75	45.47	8.2 Y	4.4/3
100	0.25	2.38	42.09	7.2 Y	4.1/3
105	0.21	2.02	43.25	7.4 Y	4.2/3
110	-0.16	1.52	38.18	0.6 GY	3.7/3
115	-0.24	1.18	38.14	1.9 GY	3.7/2
120	0.06	1.4	43.82	8.4 Y	4.2/2
125	-0.07	1.08	43.28	9.9 Y	4.2/2
130	0.85	3.67	41.25	4.5 Y	4.0/5

Cruise No: 2008802

Station: 51

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1483.77		17.44
30	1480.93		17.56
40	1480.93		17.63
50	1483.77		17.67
60	1480.93		17.69
80	1483.77		17.51
90	1478.09		17.57
110	1480.93		17.63
120	1486.62		17.69

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

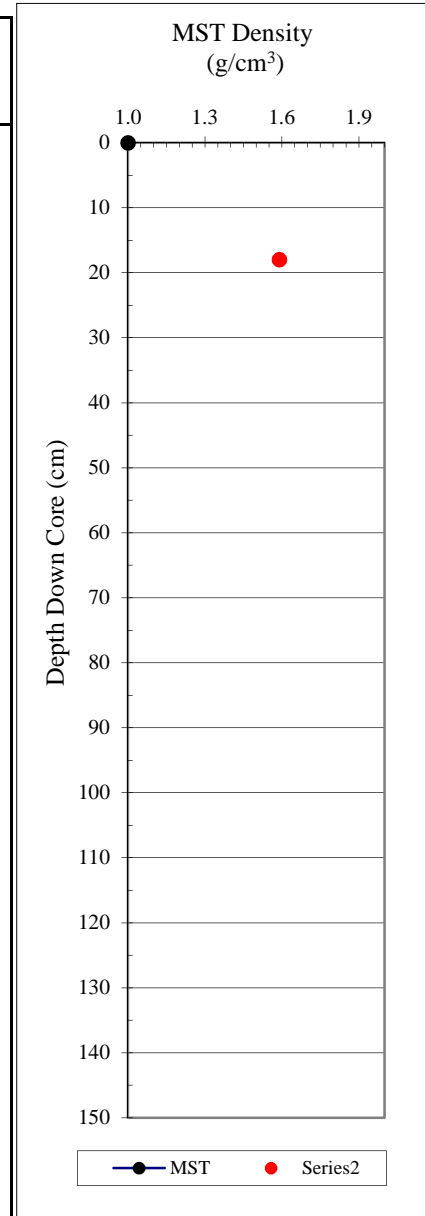
Station: 53

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.590	0.894	67.924	2.789	2.118	43.746	77.764

Cruise No: 2008802

Station: 53

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.590	0.894	67.924	2.789	2.118	43.746	77.764

Cruise No: 2008802
 Station: 53
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	1.94		
15	9.25	1.71	5.40
25	6.97	7.54	0.92

Cruise No: 2007802
 Station: 53
 Sample Type: Push Core
 Data Type: Shipboard Torvane

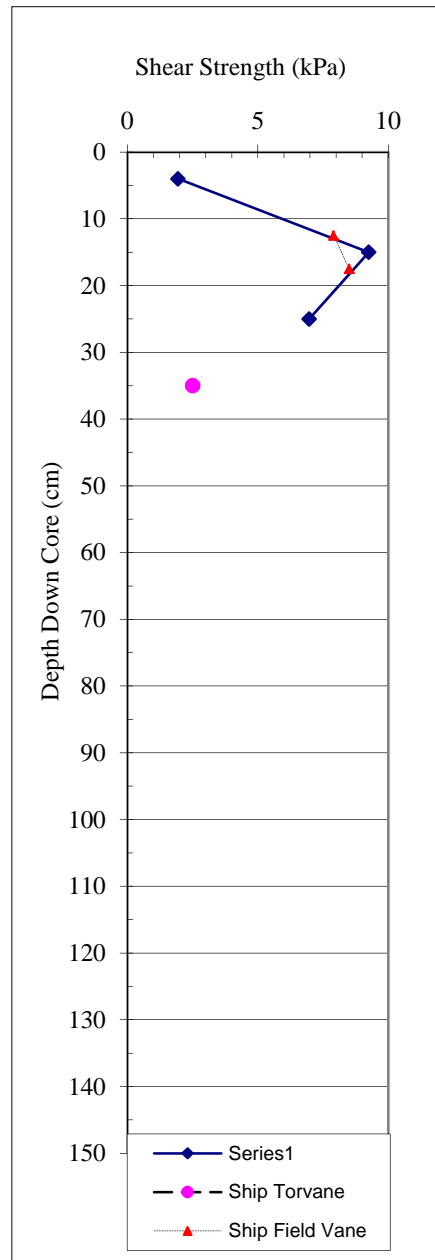
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
35	2.50

Cruise No: 2007802
 Station: 53
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
12.5	7.90
17.5	8.50
22.5	7.80
27.5	6.70
32.5	0.80

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
4	1.94	
12.5	7.90	
15	9.25	1.71
17.5	8.50	
22.5	7.80	
25	6.97	7.54
27.5	6.70	
32.5	0.80	
35	2.50	



Cruise No: 2007802

Station: 53

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.87	0.87	3.58	4.2 Y	4.0/5
5	42.26	0.9	3.67	4.3 Y	4.1/5
10	42.13	0.54	2.87	5.7 Y	4.1/4
15	44.68	0.43	2.61	5.9 Y	4.3/4
20	42.4	0.13	2.14	8.1 Y	4.1/3
25	41.72	0.28	2.86	7.6 Y	4.0/4
30	41.8	0.62	2.87	4.8 Y	4.0/4
35	42.52	0.2	1.48	6.6 Y	4.1/2

Cruise No: 2008802

Station: 53

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1483.77	1491.26	17.51
15	1492.37	1507.59	17.5
25	1503.99	1499.38	17.57

Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

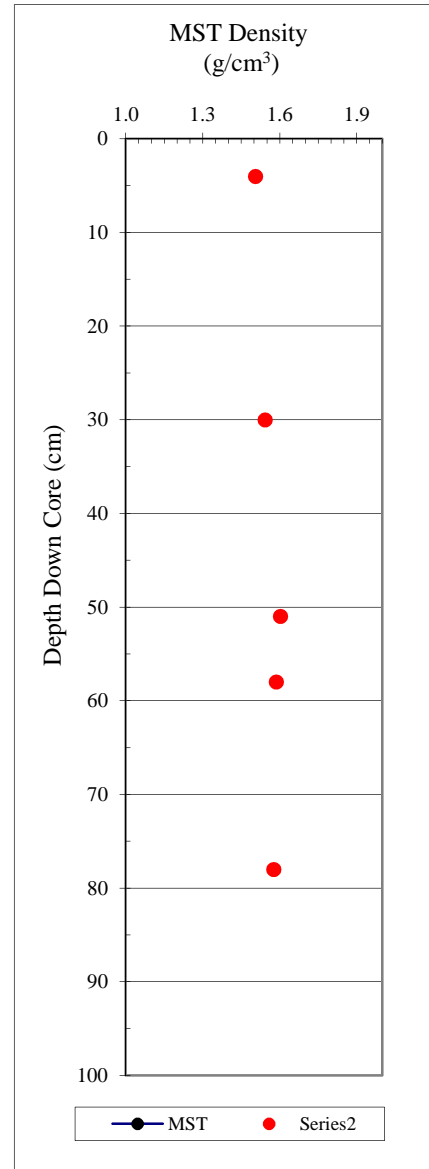
Station: 10A

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk		Total
	Density (g/cm ³)	<u>Overburden</u> <u>Pressure (kPa)</u>	
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
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34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
4	1.5046
30	1.5422
51	1.6016
58	1.5865
78	1.5759
106	1.5505

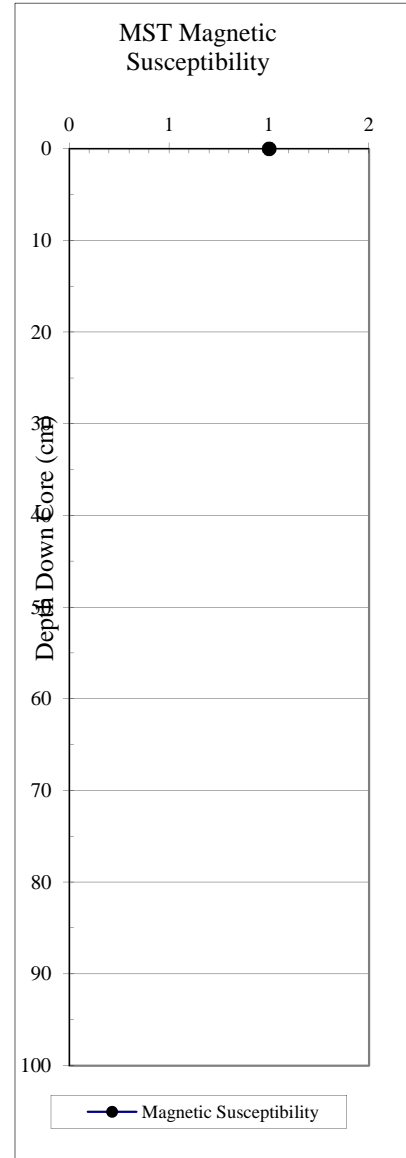
Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 10A

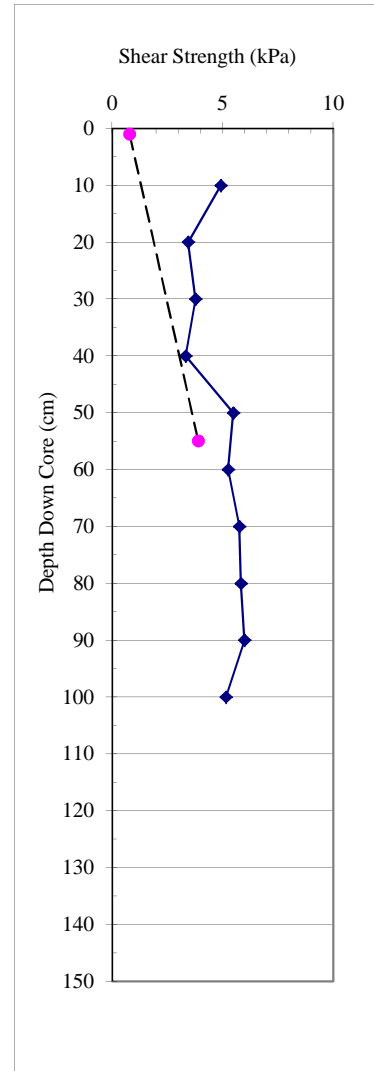
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.5046	0.7786	70.8973	2.6754	2.4361	48.2514	93.242
30	1.5422	0.8298	69.5668	2.7268	2.2859	46.1912	85.8432
51	1.6016	0.9124	67.3055	2.7907	2.0586	43.0322	75.5376
58	1.5865	0.8846	68.5471	2.8124	2.1794	44.243	79.3497
78	1.5759	0.8854	67.4355	2.7188	2.0708	43.8189	77.9959
106	1.5505	0.8461	68.7856	2.7106	2.2037	45.4295	83.2493

Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
10	4.91	4.23	1.16
20	3.43	1.44	2.38
30	3.77		
40	3.32		
50	5.48	4.80	1.14
60	5.25	5.03	1.05
70	5.76	4.21	1.37
80	5.83		
90	5.98		
100	5.14	3.43	1.50



Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

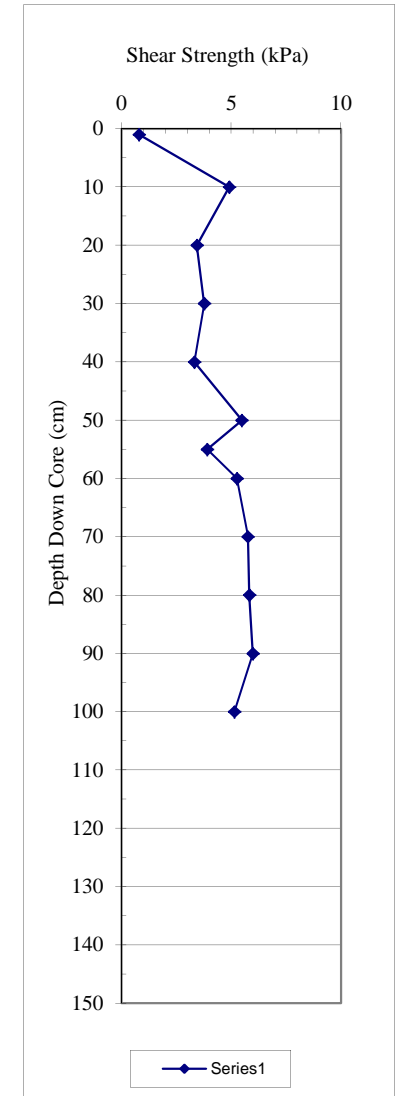
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
1.0	0.8
55.0	3.9

Cruise No: 2006801
 Station: 10
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
1	0.80	
10	4.91	4.23
20	3.43	1.44
30	3.77	
40	3.32	
50	5.48	4.80
55	3.90	
60	5.25	
70	5.76	5.03
80	5.83	4.21
90	5.98	
100	5.14	



Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.74	2.86	45.95
10	1	4.24	42.27
15	1.05	3.91	44.03
20	1.01	4.24	42.28
25	0.98	4.48	41.5
30	0.93	4.16	41.98
35	0.98	4.33	43.12
40	0.94	4.51	41.62
45	0.76	3.49	44.38
50	0.91	4.4	41.31
55	0.53	2.62	45.02
60	0.74	3.3	43.69
65	0.7	3.42	42.1
70	0.89	3.85	43.86
75	0.53	2.73	46.54
80	0.64	2.82	45.66
85	0.49	2.54	45.97
90	0.62	2.8	45.92
95	0.69	3.36	44.47
100	0.53	2.67	45.97
105	0.66	2.86	44.42
110	0.72	3.81	41.09

Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 10A

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1452.86	1459.45
20		1450.11	1455.55
30		1450.11	1459.45
40		1452.86	1459.45
50		1461.18	1467.32
60		1447.36	1455.55
70		1447.36	1463.38
80		1455.62	1471.28
90		1452.86	1463.38
100		1450.11	1459.45

Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

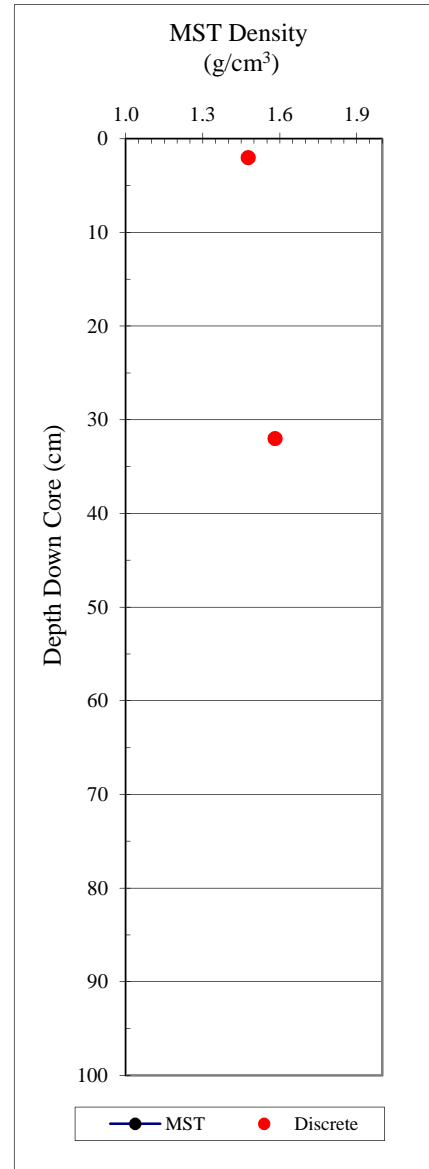
Station: 1

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.476614276
32	1.580878967
averages:	1.53

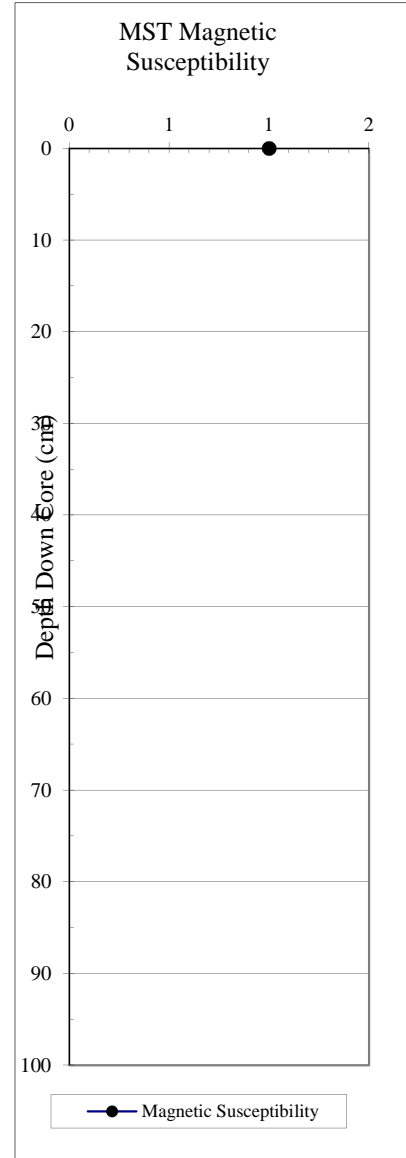
Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 1

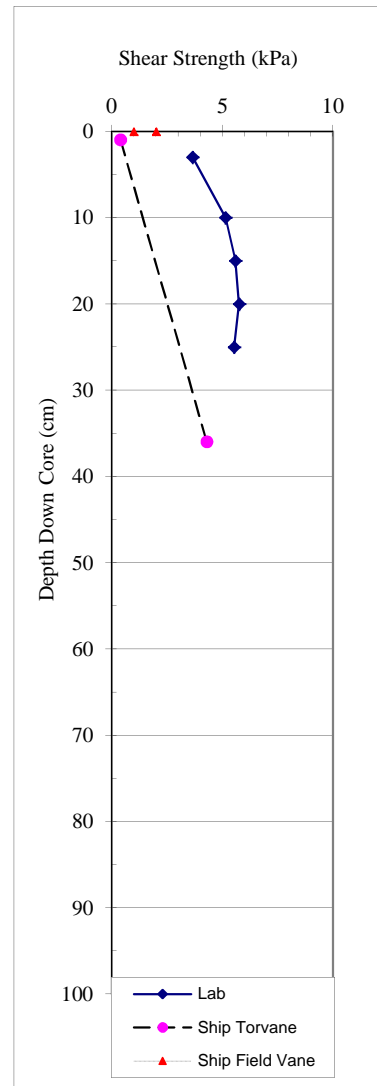
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.4766	0.7366	72.2702	2.6562	2.6062	50.1178	100.4725
32	1.5809	0.8819	68.2645	2.7787	2.1510	44.2177	79.2683

Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	3.66	1.71	2.14
10	5.14	1.49	3.46
15	5.60		
20	5.76	1.99	2.89
25	5.54		
30	6.05	3.66	1.66
35	6.85	0.91	7.50



Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.4
36.0	4.3

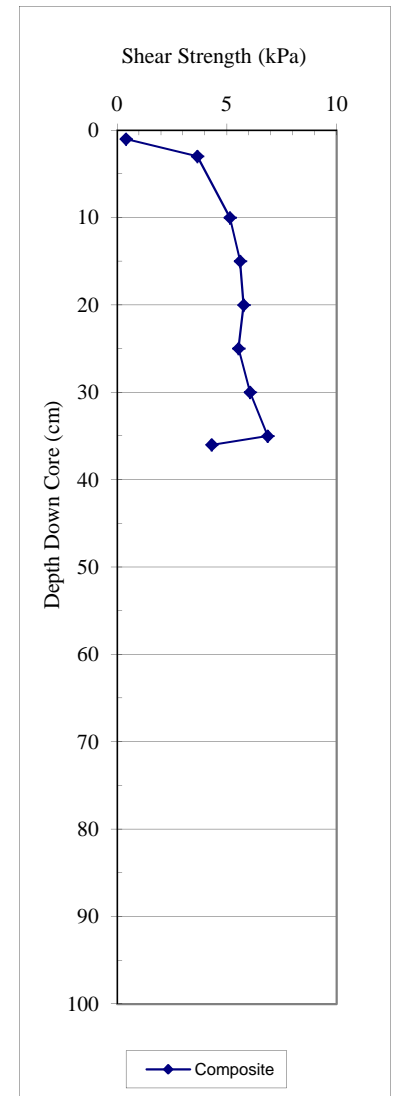
Cruise No: 2006801
 Station: 1
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.40	1.71
3	3.66	1.49
10	5.14	
15	5.60	1.99
20	5.76	
25	5.54	3.66
30	6.05	0.91
35	6.85	
36.0	4.30	

average 4.81



Cruise No: 2006801

Station: 1

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.86	3.55	45.71
10	0.58	2.94	47.68
15	0.87	3.57	44.41
20	0.8	3.65	45.07
25	0.85	4.3	42.52
30	0.8	4.11	42.2
35	1.14	4.66	44.13
<i>average:</i>	0.84	3.83	44.53

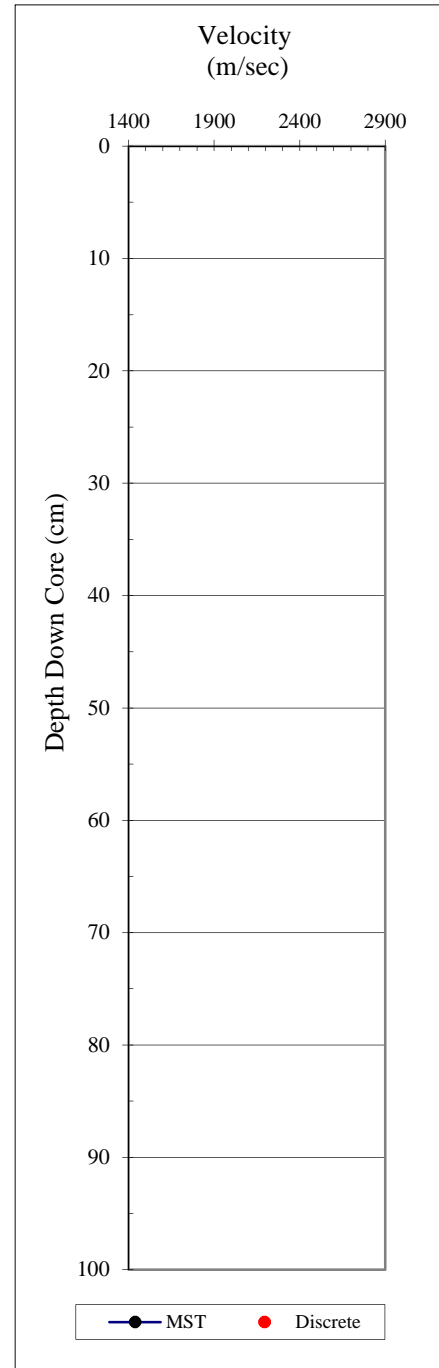
Cruise No: 2006801

Station: 1

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA



Cruise No: 2006801

Station: 1

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
10		1553.5	1470.5
20		1450.47	1470.5
30		1453.22	1474.48

Cruise No: 2006801

Station: 2

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

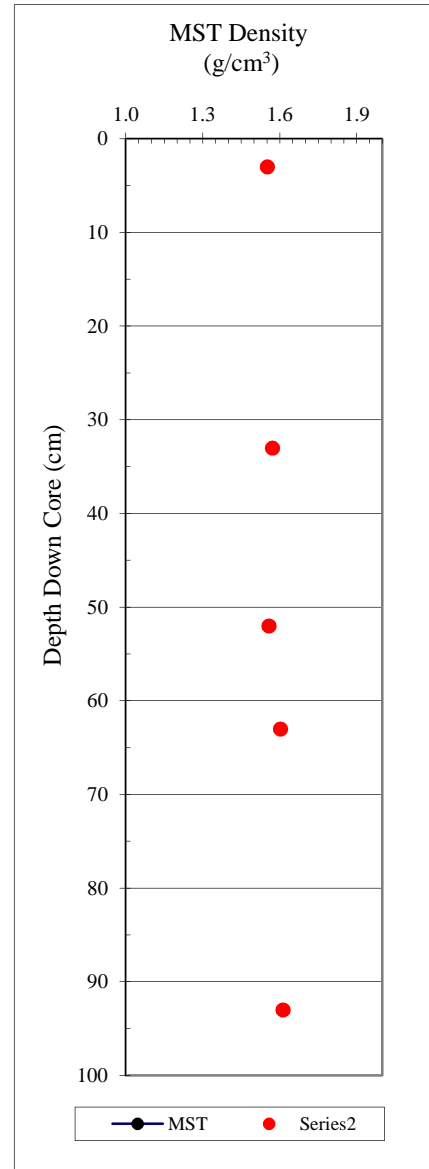
Station: 2

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
3	1.5505
33	1.5704
52	1.5573
63	1.6017
93	1.6115
116	1.6054

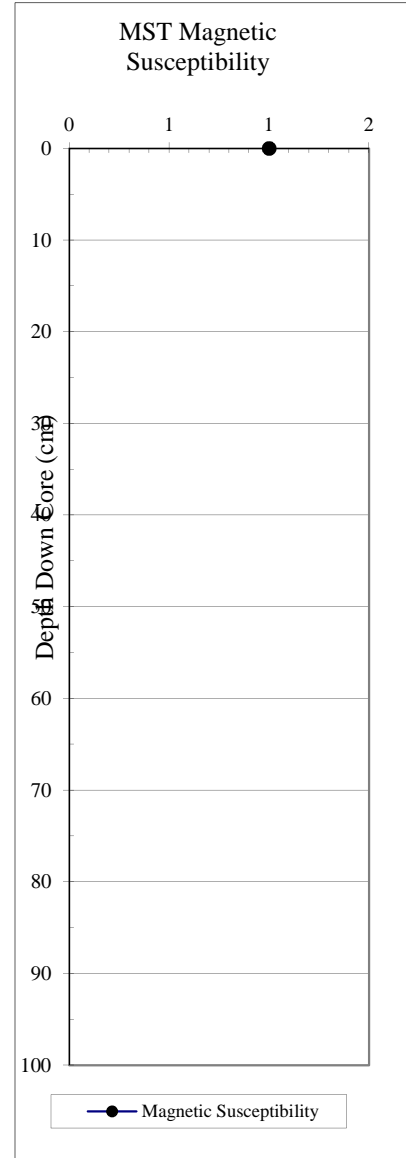
Cruise No: 2006801

Station: 2

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 2

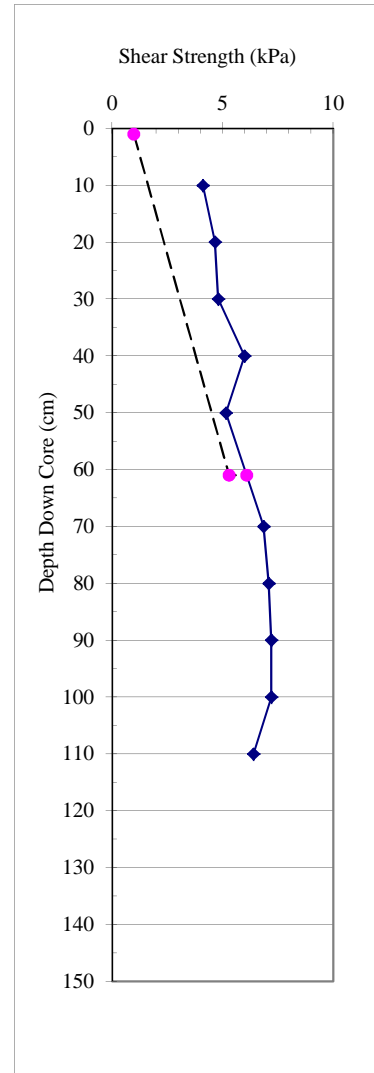
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.551	0.841	69.267	2.737	2.254	45.745	84.316
33	1.570	0.867	68.726	2.771	2.198	44.815	81.207
52	1.557	0.849	69.208	2.756	2.248	45.509	83.515
63	1.602	0.917	66.899	2.769	2.021	42.769	74.730
93	1.612	0.933	66.288	2.767	1.966	42.120	72.772
116	1.605	0.918	67.118	2.792	2.041	42.812	74.862

Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
10	4.11	3.09	1.33
20	4.65	2.66	1.75
30	4.80	3.08	1.56
40	5.98	2.99	2.00
50	5.14		
70	6.85	2.86	2.40
80	7.09	2.22	3.20
90	7.20		
100	7.20		
110	6.40	4.00	1.60



Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

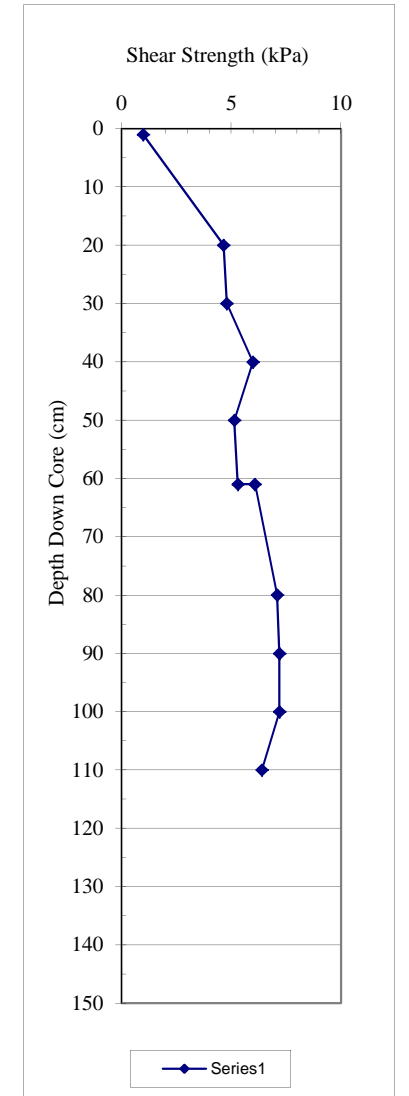
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
1.0	1.0
61.0	5.3
61.0	6.1

Cruise No: 2006801
 Station: 2
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
1.0	1.0	3.09
20	4.65	2.66
30	4.80	3.08
40	5.98	2.99
50	5.14	
61.0	5.3	2.86
61.0	6.1	2.22
80	7.09	2.22
90	7.20	
100	7.20	
110	6.40	4.00



Cruise No: 2006801

Station: 2

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.03	4.48	43.99
10	0.93	3.94	45.61
15	1.2	4.6	43.6
20	0.84	4.07	40.35
25	1	3.94	40.75
30	0.76	3.17	43.26
35	0.62	2.52	43.1
40	0.3	1.62	43.39
45	0.53	2.72	44.18
50	0.61	2.04	45.93
55	0.6	2.79	43.1
60	0.48	2.63	45.17
65	0.46	3.01	45.21
70	0.8	3.5	43.9
75	0.85	3.73	41.98
80	0.96	4.47	40.71
85	0.91	4.13	41.59
90	0.87	4.56	39.73
95	0.71	3.18	46.02
100	0.93	3.78	43.96
105	0.72	3.25	44.68
110	0.83	3.83	43.19
115	0.79	3.81	44.2

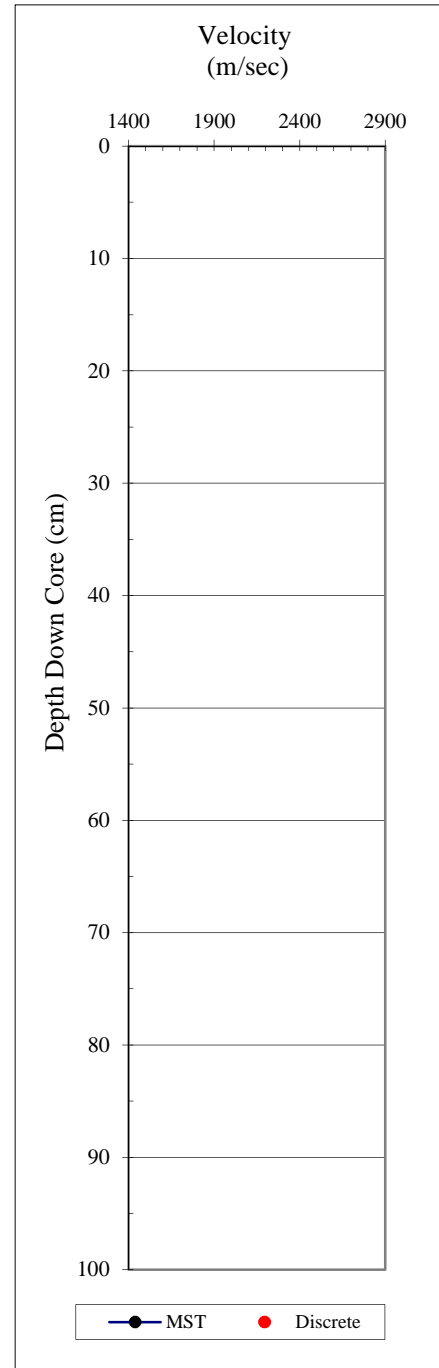
Cruise No: 2006801

Station: 2

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA



Cruise No: 2006801

Station: 2

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1464.92	1474.47
20		1462.12	1466.54
30		1464.92	1474.47
40		1470.55	1478.46
50		1459.34	1474.47
70		1453.8	1462.61
80		1453.8	1462.61
90		1459.34	1462.61
100		1459.34	1470.49
110		1459.34	1466.54

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

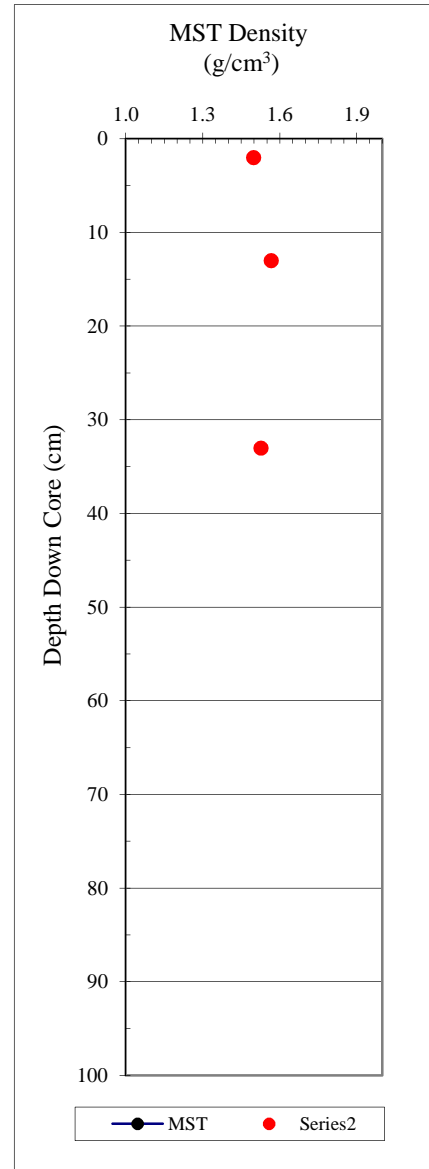
Station: 5A

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.4973
13	1.5655
33	1.5258
0	0
0	0
0	0

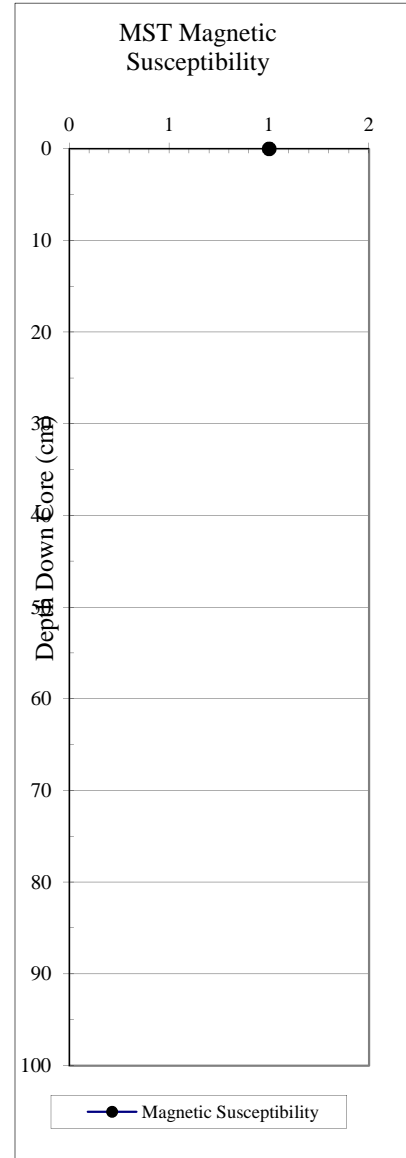
Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 5A

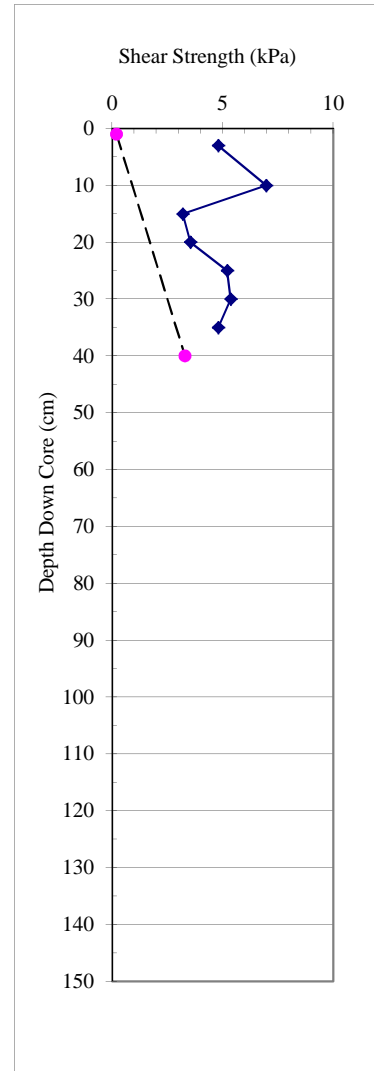
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.4973	0.7604	71.9649	2.7123	2.567	49.2161	96.9127
13	1.5655	0.8616	68.7348	2.7559	2.1984	44.9602	81.6868
33	1.5258	0.8146	69.4582	2.6672	2.2742	46.6136	87.3135

Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	4.79772	2.40	2.00
10	6.96811	2.06	3.39
15	3.19848		4.00
20	3.54446	0.89	4.00
25	5.20592		
30	5.36887	3.20	1.68
35	4.79772	1.26	1.68



Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Shipboard Torvane

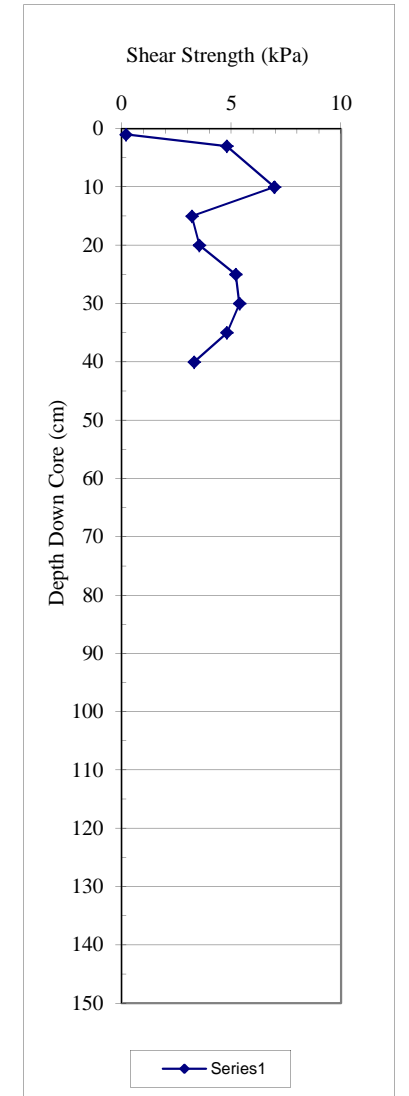
Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
1.0	0.2
40.0	3.3

Cruise No: 2006801
 Station: 5A
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1	0.20	
3	4.80	2.40
10	6.97	2.06
15	3.20	
20	3.54	0.89
25	5.21	
30	5.37	3.20
35	4.80	1.26
40	3.30	



Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.38	5.72	42.37
10	0.66	3.35	43.64
15	0.69	4.3	41.71
20	0.74	4.13	41.42
25	0.63	4.36	41.28
30	0.72	3.8	43.07
35	0.36	2.91	45.09

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 5A

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1455.98	1478.48
20		1447.72	1466.54
30		1447.72	1466.54

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2003801

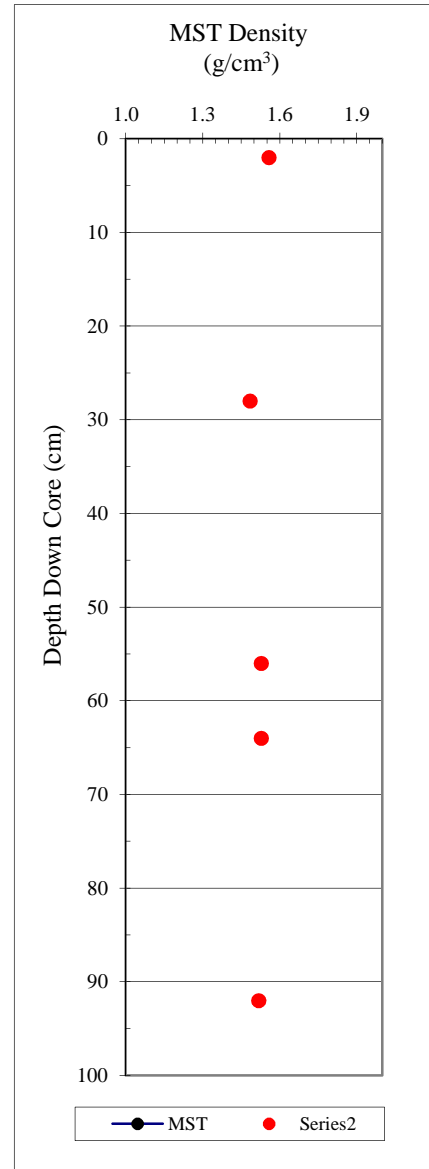
Station: 6

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk		Total
	Density (g/cm ³)	<u>Overburden</u> <u>Pressure (kPa)</u>	
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.5567
28	1.4836
56	1.5269
64	1.5272
92	1.5169
118	1.5539

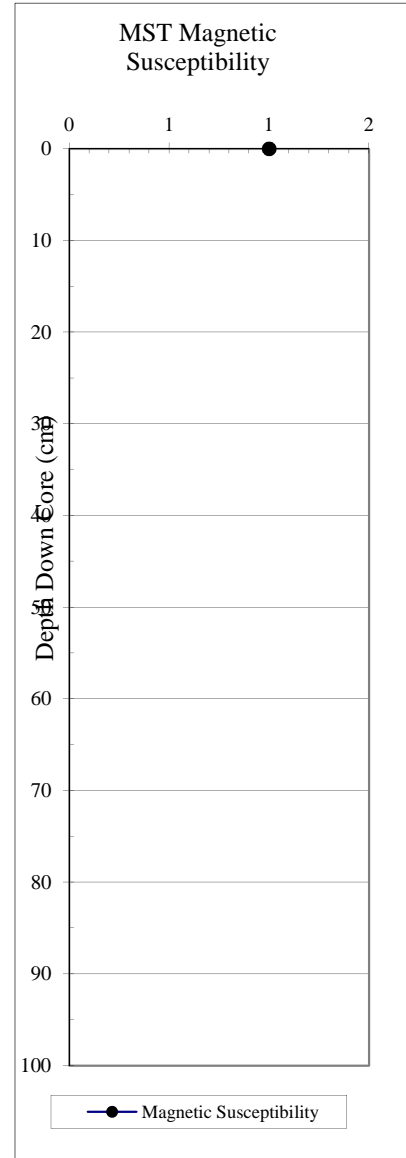
Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 6

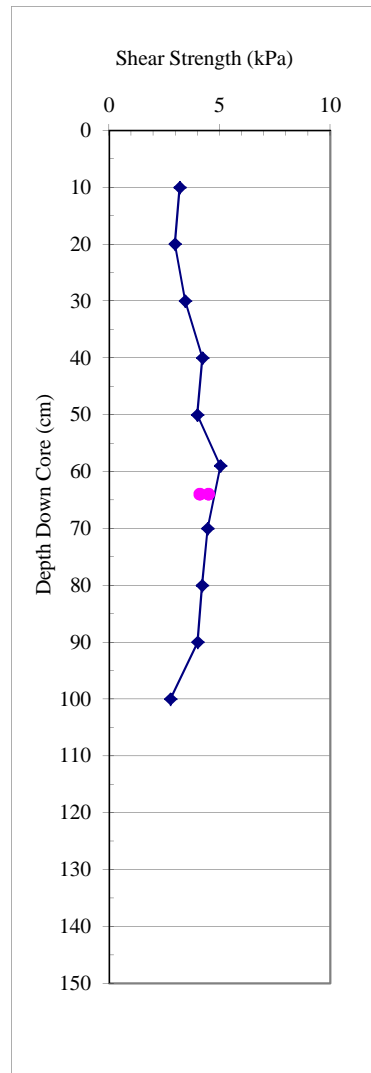
Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.5567	0.8479	69.2099	2.7539	2.2478	45.5278	83.5799
28	1.4836	0.7486	71.7684	2.6518	2.5421	49.5371	98.1653
56	1.5269	0.8056	70.4408	2.7254	2.383	47.2401	89.5378
64	1.5272	0.8031	70.7184	2.7426	2.4151	47.4163	90.1732
92	1.5169	0.7855	71.4272	2.7492	2.4998	48.2165	93.1117
118	1.5539	0.8314	70.5532	2.8235	2.396	46.494	86.8948

Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak Undrained Shear Shear</u> (kPa)	<u>Remoulded Undrained Shear Shear</u> (kPa)	Sensitivity
	Shear Shear	Shear Shear	
10	3.20	1.14	2.80
20	2.97	0.91	3.25
30	3.43	1.44	2.38
40	4.23	1.49	2.85
50	3.99	2.77	1.44
59	5.03	2.17	2.32
70	4.46	1.26	3.55
80	4.21	1.99	2.11
90	4.00	1.37	2.92
100	2.77	1.88	1.47
110	5.94	1.49	4.00
120	5.98	1.99	3.00



Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

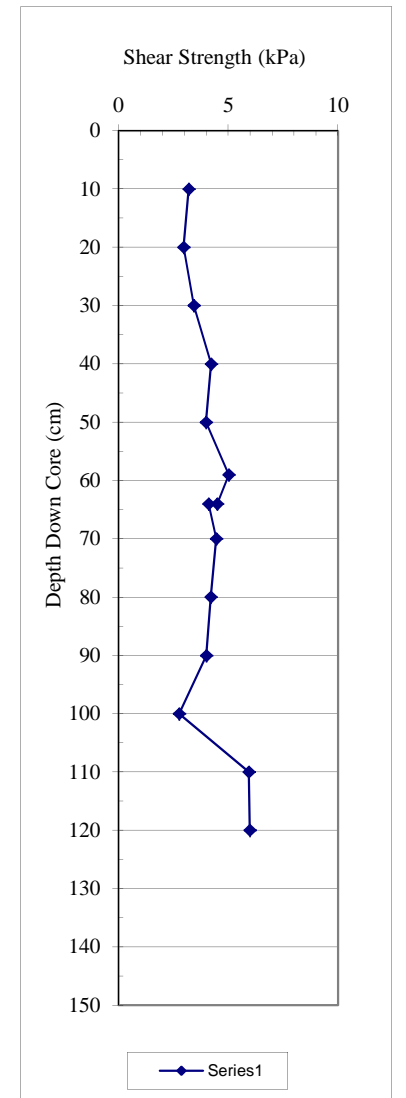
<u>Peak Undrained Shear Shear</u> (kPa)	
Depth Down Core (cm)	
64.0	4.5
64.0	4.1

Cruise No: 2006801
 Station: 6
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Peak Undrained Shear Shear</u> (kPa)	
Depth Down Core (cm)	
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak Undrained Shear Shear</u> (kPa)	<u>Remoulded Undrained Shear Shear</u> (kPa)
	Shear Shear	Shear Shear
10	3.20	1.14
20	2.97	0.91
30	3.43	1.44
40	4.23	1.49
50	3.99	2.77
59	5.03	2.17
64	4.5	
64	4.1	
70	4.46	1.26
80	4.21	1.99
90	4.00	1.37
100	2.77	1.88
110	5.94	1.49
120	5.98	1.99



Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.81	3.42	44.67
10	0.79	3.9	42.13
15	0.35	2.76	41.81
20	0.69	4.87	40.34
25	0.6	3.42	43.72
30	0.59	3.09	42.71
35	0.33	3.1	42.41
40	0.66	3.58	42.98
45	0.57	3.79	42.24
50	0.48	3.31	42.28
55	0.23	3.52	42.1
60	0.48	3.71	42.47
65	0.47	3.97	41.66
70	0.76	3.76	42.41
75	0.33	3.04	44.41
80	0.45	2.81	46.43
85	0.62	3.52	44.4
90	0.19	2.71	44.11
95	0.52	3.16	45.11
100	0.68	3.69	43.3
105	0.56	3.86	41.3
110	0.53	3.54	43.52
115	0.43	3.13	44.02
120	0.54	3.17	43.74

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 6

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1439.55	1458.69
20		1436.85	1450.92
30		1444.99	1454.8
40		1444.99	1454.8
50		1444.99	1458.69
70		1436.85	1447.07
80		1436.85	1450.92
90		1447.72	1454.8
100		1450.47	1458.69
110		1442.27	1454.8

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2003801

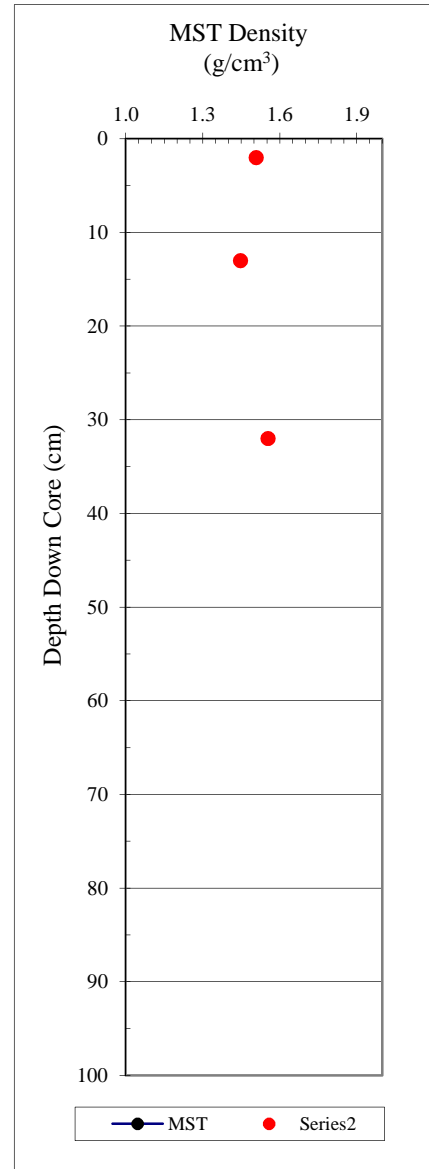
Station: 9A

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0	NA		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			



Depth Down Core (cm)	Bulk Density (g/cm ³)
2	1.507
13	1.4466
32	1.5535

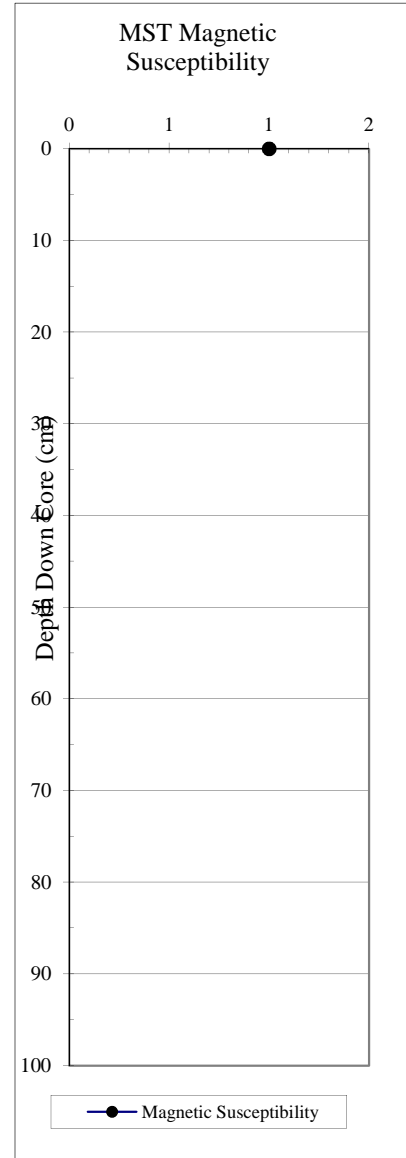
Cruise No: 2006801

Station: 2A

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
0	NA



Cruise No: 2006801

Station: 9A

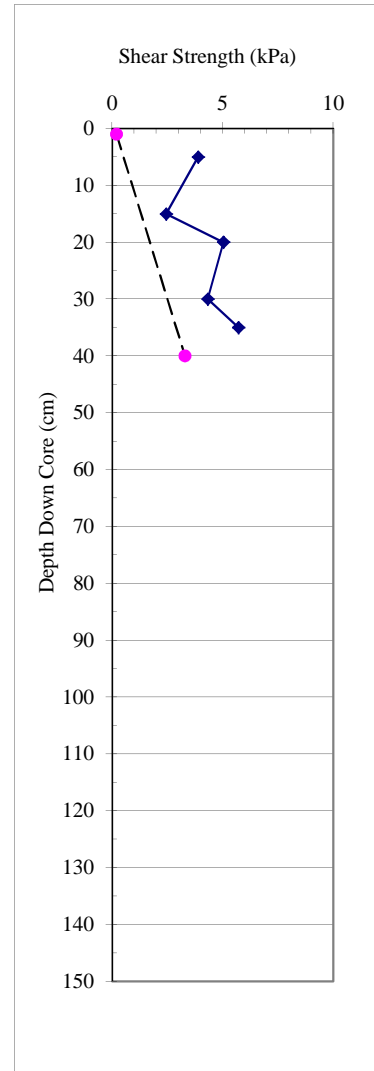
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.507	0.7889	70.123	2.6405	2.3471	47.6493	91.0195
13	1.4466	0.6937	73.5262	2.6203	2.7773	52.0463	108.5346
32	1.5535	0.8422	69.4602	2.7578	2.2744	45.7849	84.4504

Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> Shear Shear (kPa)	<u>Undrained</u> Shear Shear (kPa)	
5	3.88387	1.49	2.61
15	2.43681	1.11	2.20
20	5.02618		
30	4.31981		
35	5.71157	2.51	2.28



Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Shipboard Torvane

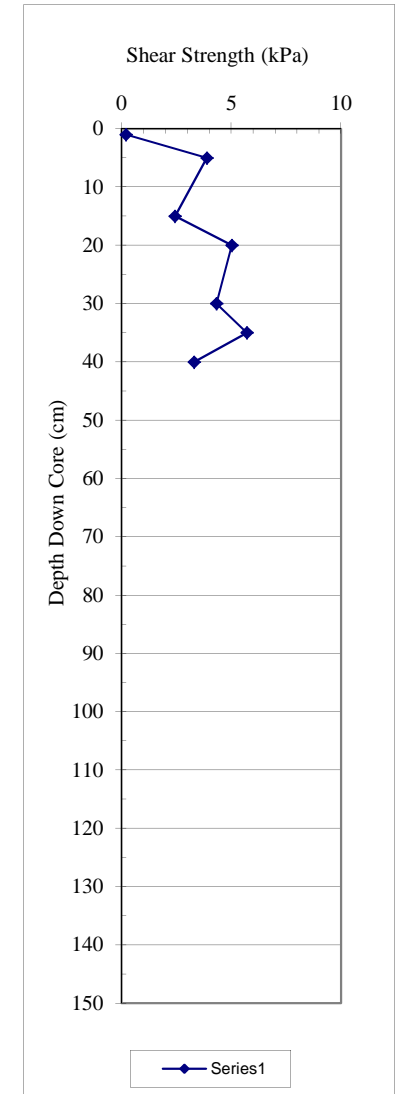
Depth Down Core (cm)	<u>Peak</u>
	<u>Undrained</u> Shear Shear (kPa)
1.0	0.2
40.0	3.3

Cruise No: 2006801
 Station: 9A
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u>
	<u>Undrained</u> Shear Shear (kPa)
NA	NA
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u> Shear Shear (kPa)	<u>Undrained</u> Shear Shear (kPa)
1.0	0.20	
5	3.88	1.49
15	2.44	1.11
20	5.03	
30	4.32	
35	5.71	2.51
40.0	3.30	



Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.03	3.98	42.39
10	0.91	3.92	41.12
15	0.8	3.92	41.77
20	0.73	3.66	42.28
25	0.54	3.02	42.96
30	0.71	3.69	43.54
35	1.02	4.51	41.77

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2006801

Station: 9A

Sample Type: Push Core

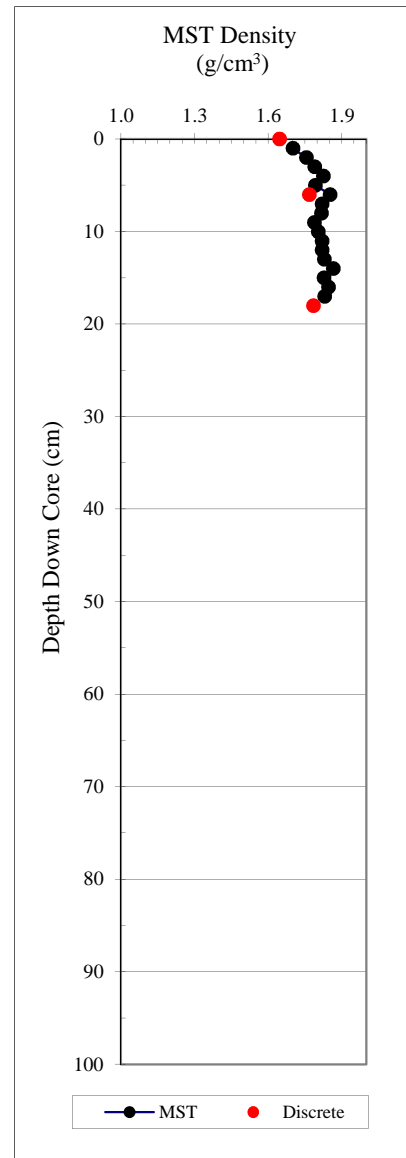
Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete	Discrete
		Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
10		1442.27	1450.92
20		1444.99	1466.54
30		1444.99	1466.54

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1	1.701		
2	1.756		
3	1.789		
4	1.825		
5	1.792		
6	1.851		
7	1.819		
8	1.817		
9	1.788		
10	1.804		
11	1.820		
12	1.819		
13	1.829		
14	1.864		
15	1.827		
16	1.845		
17	1.830		
18			
average	1.810		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.65	1.06	57.18	2.48	1.34	35.58	55.23
6	1.77	1.16	58.84	2.83	1.43	34.09	51.73
** 18	1.78	1.23	54.32	2.69	1.19	31.18	45.30
averages:	1.73	1.15	56.78	2.66	1.32	33.62	50.75

Cruise No: 2007802

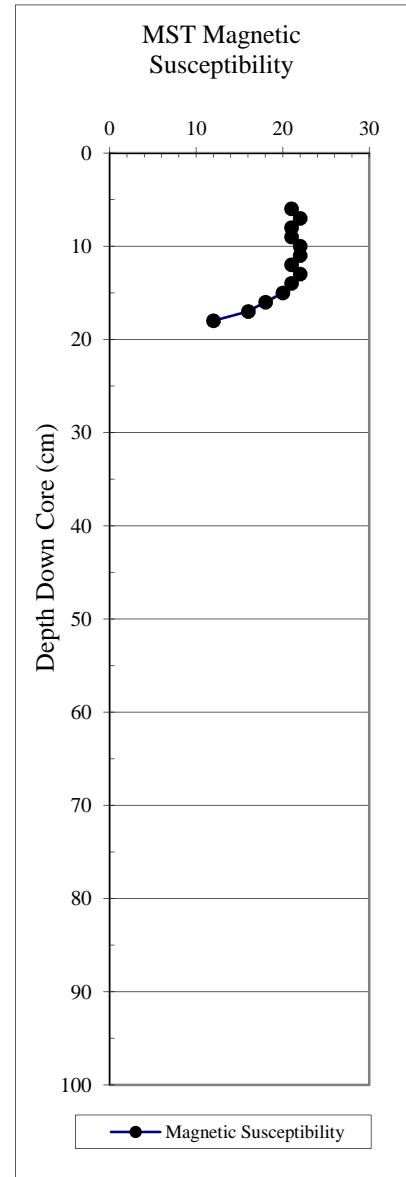
Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	13.00
2	16.00
3	18.00
4	19.00
5	20.00
6	21.00
7	22.00
8	21.00
9	21.00
10	22.00
11	22.00
12	21.00
13	22.00
14	21.00
15	20.00
16	18.00
17	16.00
18	12.00



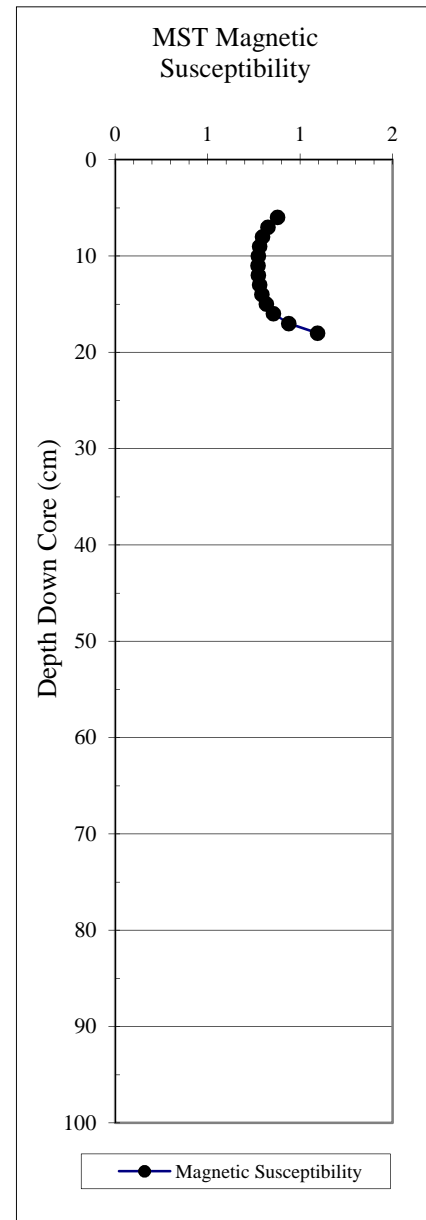
Cruise No: 2007802

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.205
2	1.912
3	1.529
4	1.199
5	0.990
6	0.879
7	0.827
8	0.796
9	0.781
10	0.774
11	0.772
12	0.774
13	0.781
14	0.794
15	0.817
16	0.856
17	0.939
18	1.094



Cruise No: 2007802

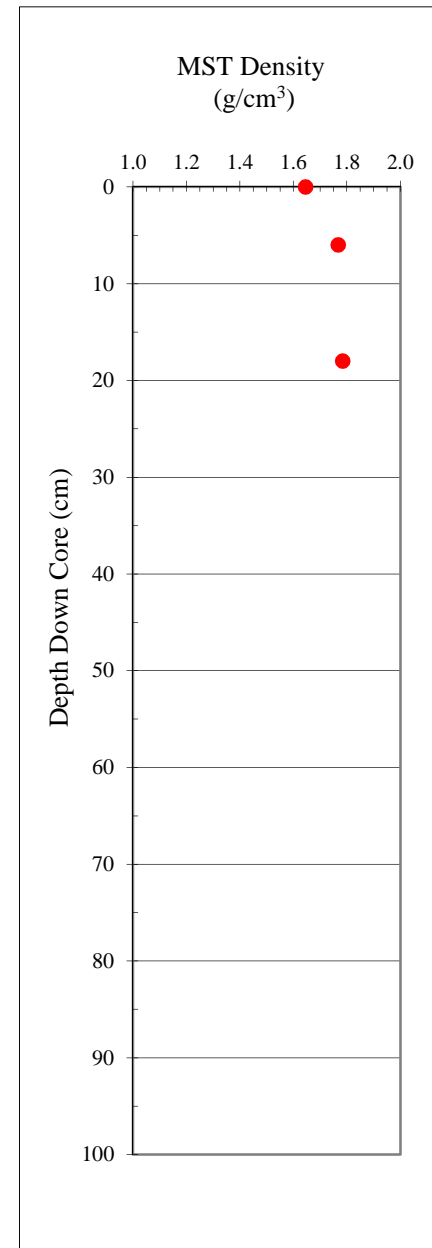
Station: 11

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

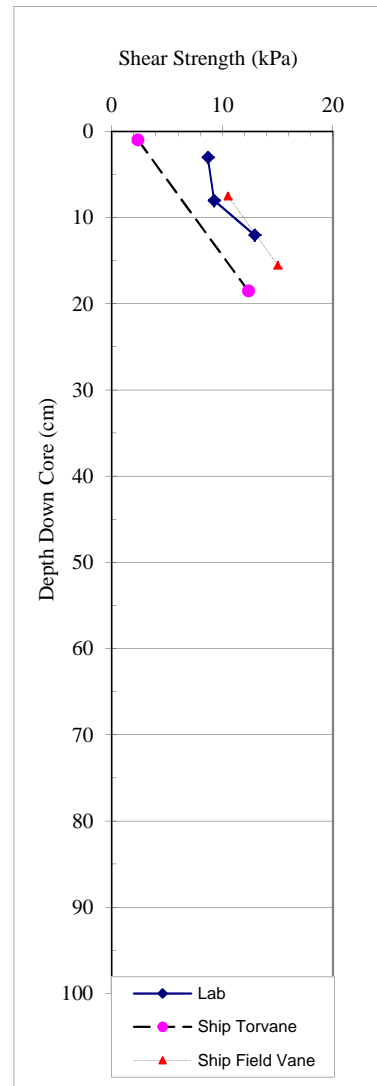
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.65	1.06	57.18	2.48	1.34	35.58	55.23
6	1.77	1.16	58.84	2.83	1.43	34.09	51.73
** 18	1.78	1.23	54.32	2.69	1.19	31.18	45.30



Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	8.68158	0.80	10.86
8	9.25274	4.34	2.13
12	12.90814		



Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Torvane

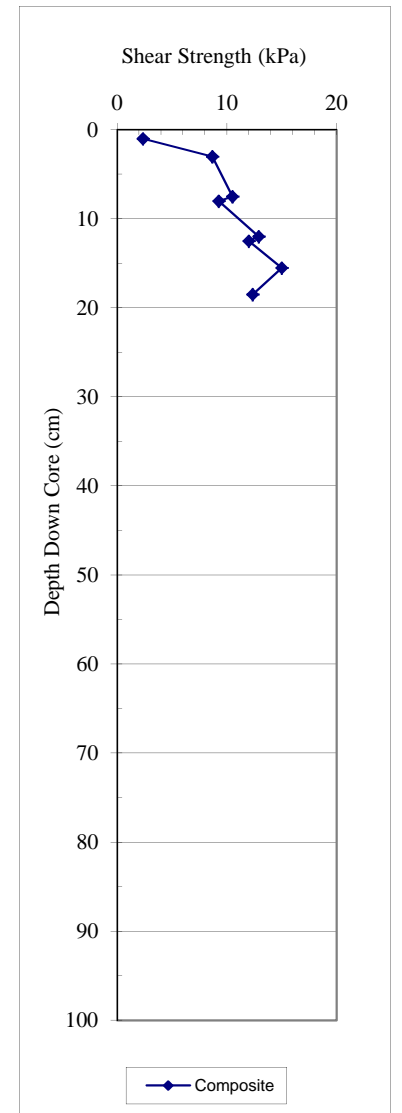
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
1.0	2.35
18.5	12.36

Cruise No: 2007802
 Station: 11
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	10.50
15.5	15.00
12.5	12.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	2.35	
3	8.68	0.80
7.5	10.50	
8	9.25	4.34
12	12.91	
12.5	12.00	
15.5	15.00	
18.5	12.36	



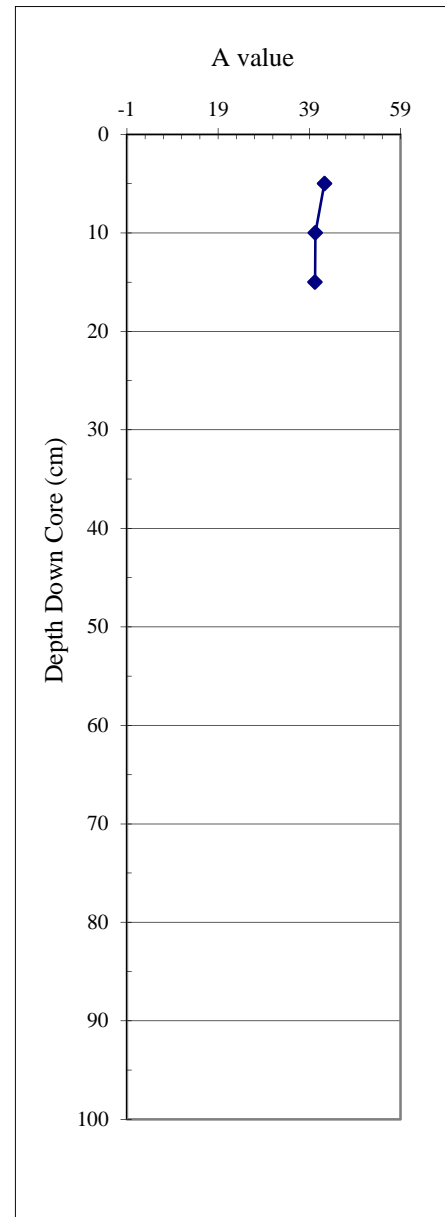
Cruise No: 2007802

Station: 11

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	Munsell
5	42.32	1.01	4.07	4.1 Y 4.1/.6
10	40.32	1.02	4.32	4.4 Y 3.9/.6
15	40.26	0.93	4.07	4.5 Y 3.9/.6



0.61

2.98

Cruise No: 2007802

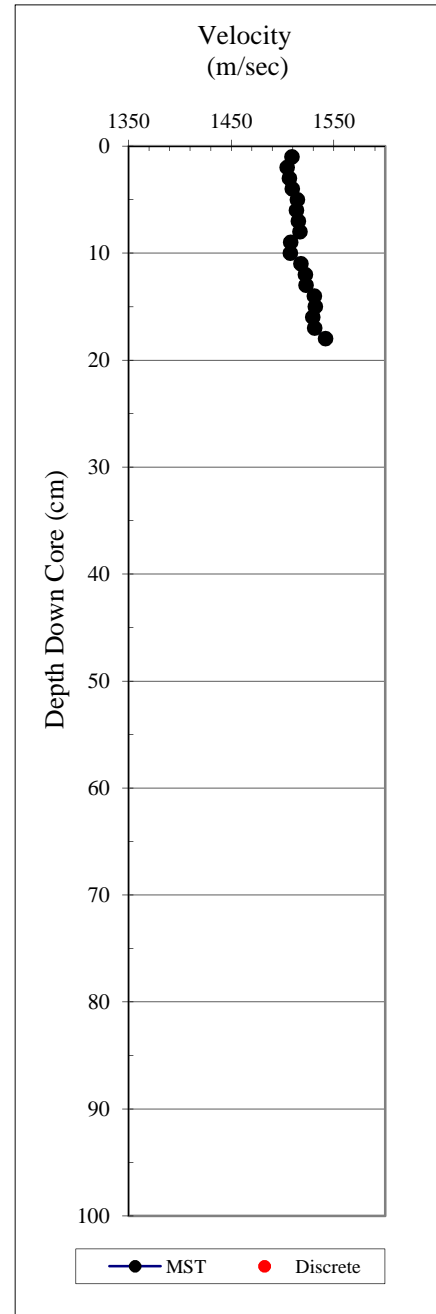
Station: 11

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

1	1509.02
2	1504.65
3	1506.83
4	1509.54
5	1514.46
6	1513.45
7	1515.40
8	1517.00
9	1507.82
10	1507.67
11	1517.84
12	1522.26
13	1522.80
14	1531.11
15	1532.02
16	1529.29
17	1531.18
18	1541.80



Cruise No: 2007802

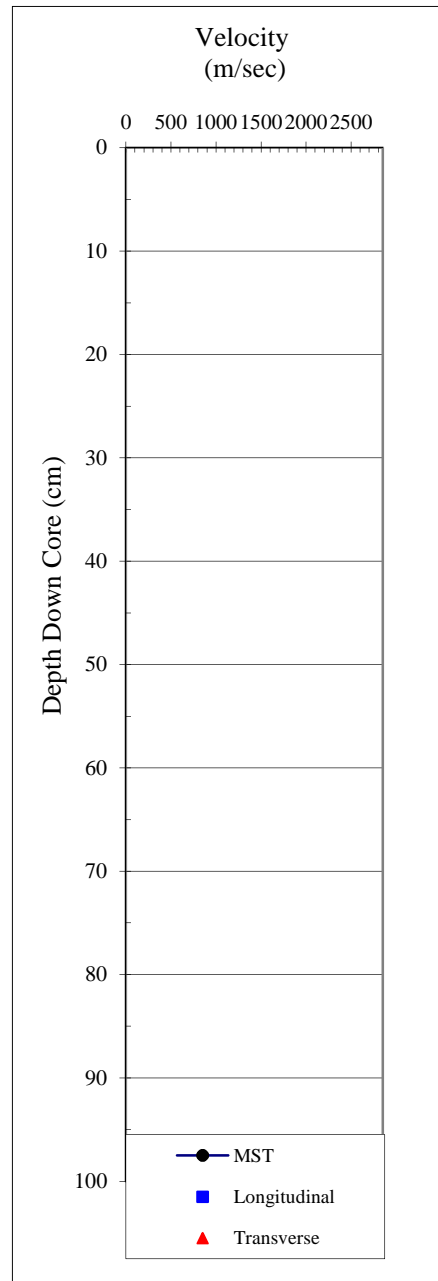
Station: 11

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
---------------	---------------------------------	---	---

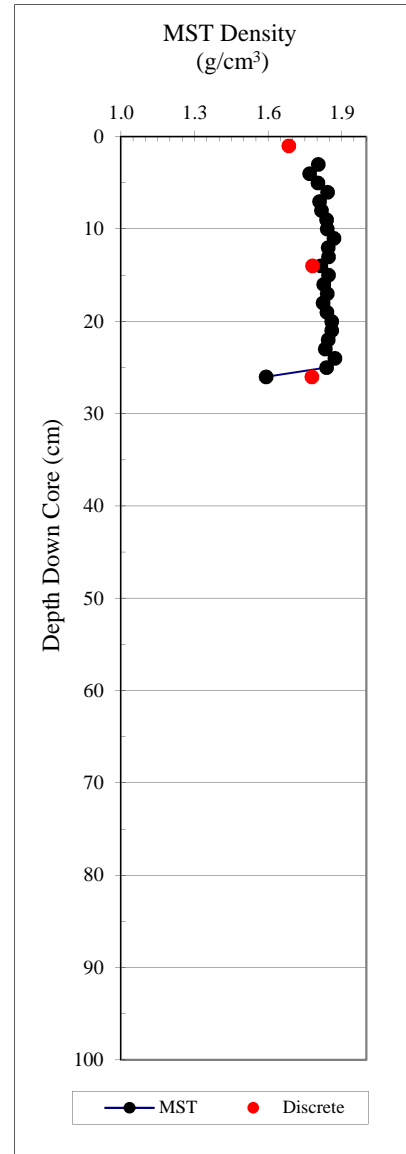
not done



Cruise No: 2007802
 Station: I2
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: I2
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.772		
3	1.804		
4	1.769		
5	1.803		
6	1.841		
7	1.808		
8	1.816		
9	1.838		
10	1.840		
11	1.868		
12	1.844		
13	1.846		
14	1.815		
15	1.845		
16	1.826		
17	1.840		
18	1.824		
19	1.839		
20	1.859		
21	1.858		
22	1.844		
23	1.832		
24	1.871		
25	1.837		
26	1.591		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.68	1.08	58.96	2.63	1.44	35.85	55.88
14	1.78	1.19	58.08	2.83	1.39	33.42	50.19
** 26.0	1.78	1.22	54.50	2.68	1.20	31.39	45.75

average 1.821

Cruise No: 2007802

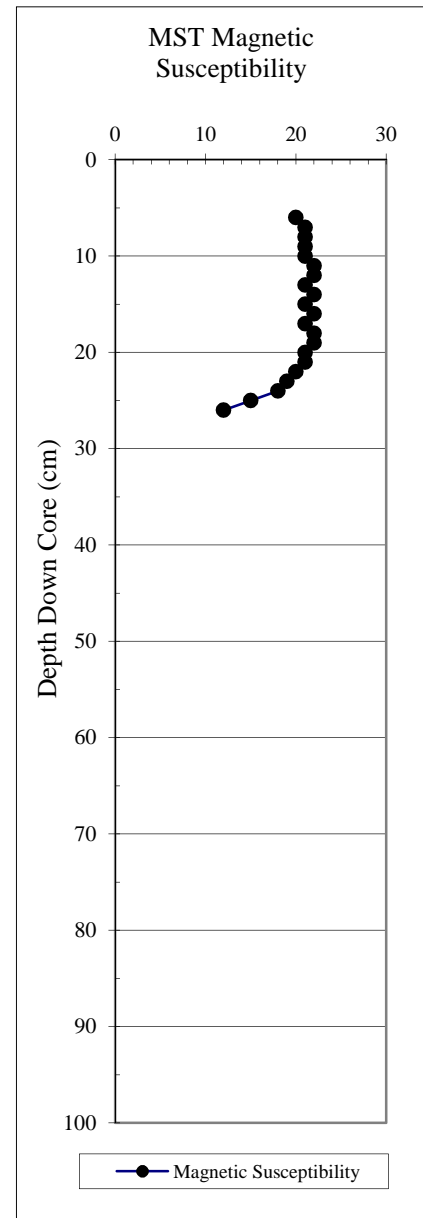
Station: 12

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	11.00
2	14.00
3	17.00
4	18.00
5	19.00
6	20.00
7	21.00
8	21.00
9	21.00
10	21.00
11	22.00
12	22.00
13	21.00
14	22.00
15	21.00
16	22.00
17	21.00
18	22.00
19	22.00
20	21.00
21	21.00
22	20.00
23	19.00
24	18.00
25	15.00
26	12.00



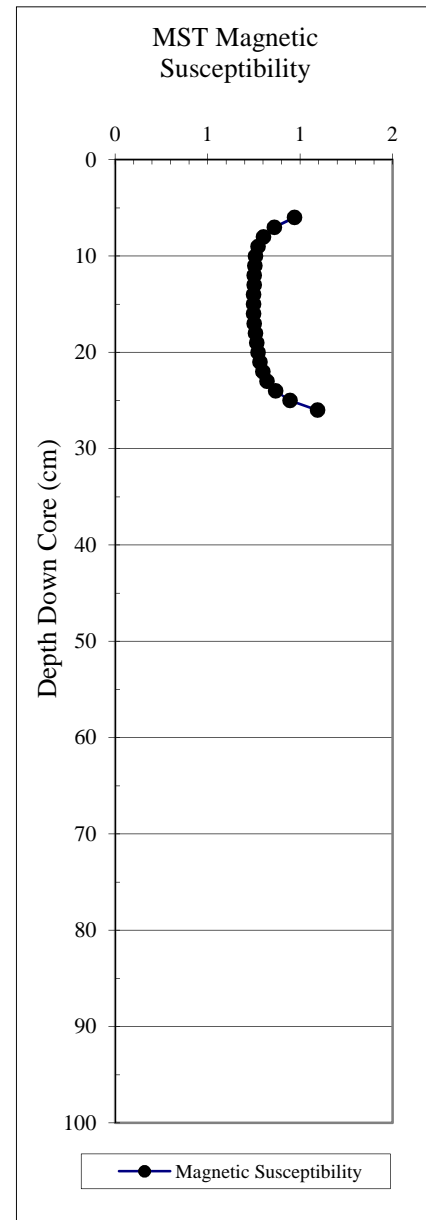
Cruise No: 2007802

Station: 12

Sample Type: **Push Core**

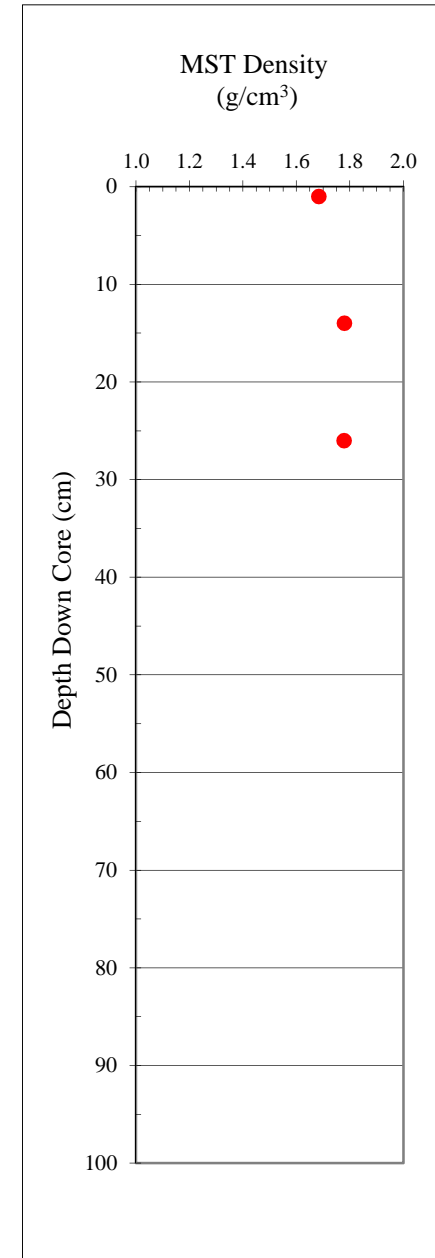
Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.161
2	1.855
3	1.650
4	1.395
5	1.156
6	0.969
7	0.862
8	0.803
9	0.772
10	0.758
11	0.755
12	0.753
13	0.753
14	0.749
15	0.749
16	0.749
17	0.753
18	0.758
19	0.766
20	0.772
21	0.783
22	0.798
23	0.822
24	0.867
25	0.946
26	1.094



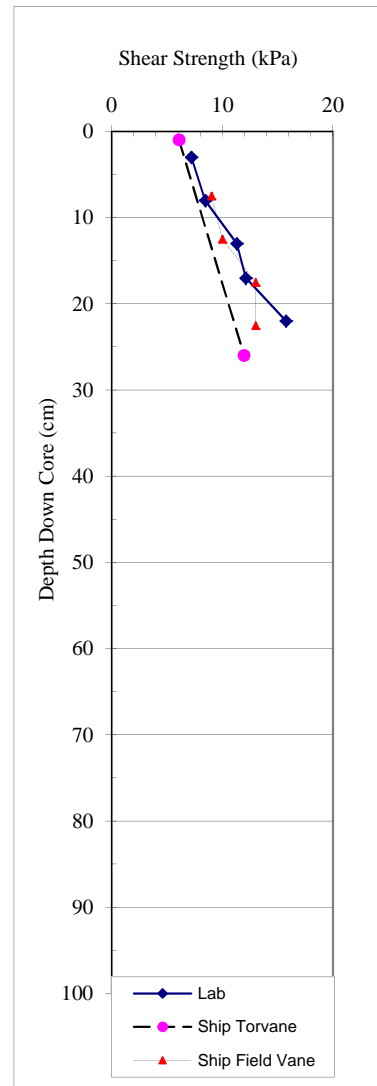
Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.68	1.08	58.96	2.63	1.44	35.85	55.88
14	1.78	1.19	58.08	2.83	1.39	33.42	50.19
** 26.0	1.78	1.22	54.50	2.68	1.20	31.39	45.75
averages:	1.75	1.16	57.18	2.71	1.34	33.55	50.61



Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	7.20	2.86	2.52
8	8.45		
13	11.31	4.23	2.68
17	12.11		
22	15.76	1.37	11.50



Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Shipboard Torvane

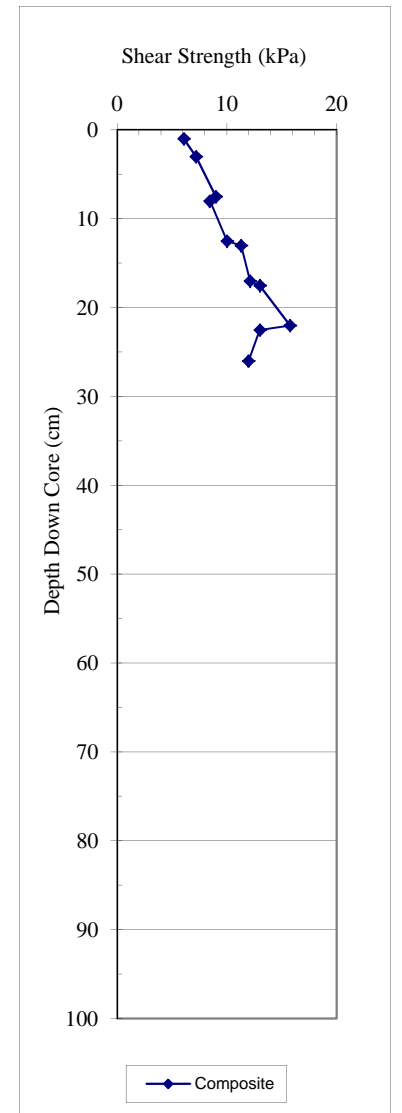
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	6.08
26	11.96

Cruise No: 2007802
 Station: 12
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	9.00
12.5	10.00
17.5	13.00
22.5	13.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	6.08	
3	7.20	2.86
7.5	9.00	
8	8.45	
12.5	10.00	
13	11.31	4.23
17	12.11	
17.5	13.00	
22	15.76	1.37
22.5	13.00	
26	11.96	



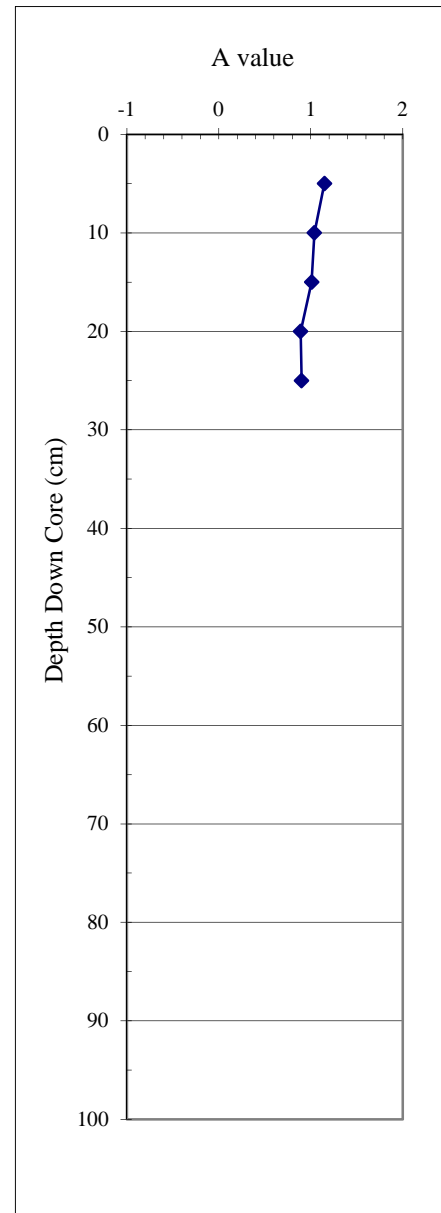
Cruise No: 2007802

Station: 12

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	Munsell
5	1.15	4.79	40.38	4.3 Y 3.9/.7
10	1.04	4.42	40.22	4.5 Y 3.9/.6
15	1.01	4.14	41.02	4.3 Y 4.0/.6
20	0.89	3.93	41.41	4.6 Y 4.0/.5
25	0.9	3.75	41.32	4.3 Y 4.0/.5



Cruise No: 2007802

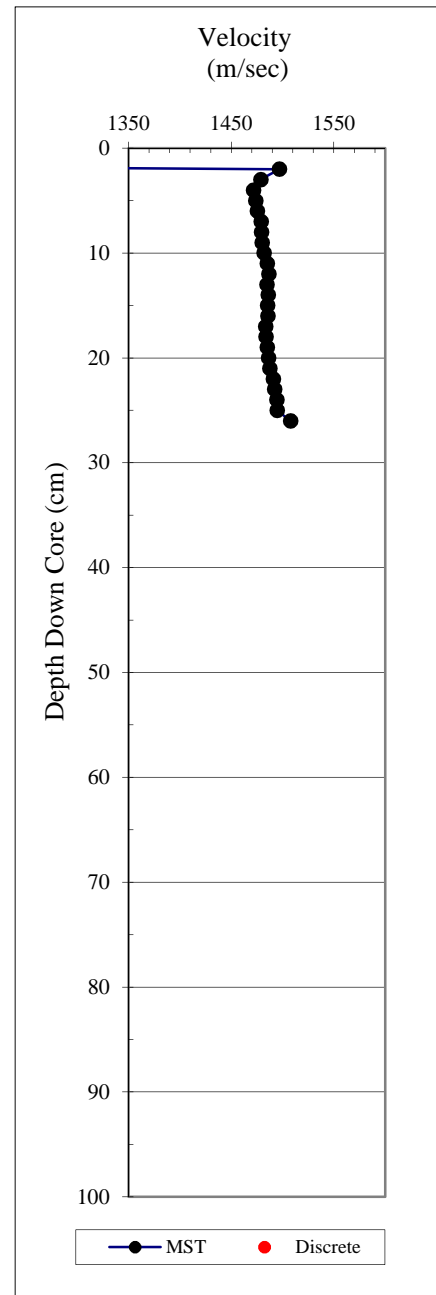
Station: 12

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

1	0.00
2	1497.04
3	1478.92
4	1471.70
5	1474.05
6	1475.51
7	1479.13
8	1479.58
9	1480.18
10	1482.19
11	1485.03
12	1486.60
13	1484.81
14	1486.23
15	1485.41
16	1485.71
17	1483.63
18	1483.93
19	1485.05
20	1486.32
21	1487.74
22	1491.10
23	1492.23
24	1494.41
25	1494.75
26	1507.91



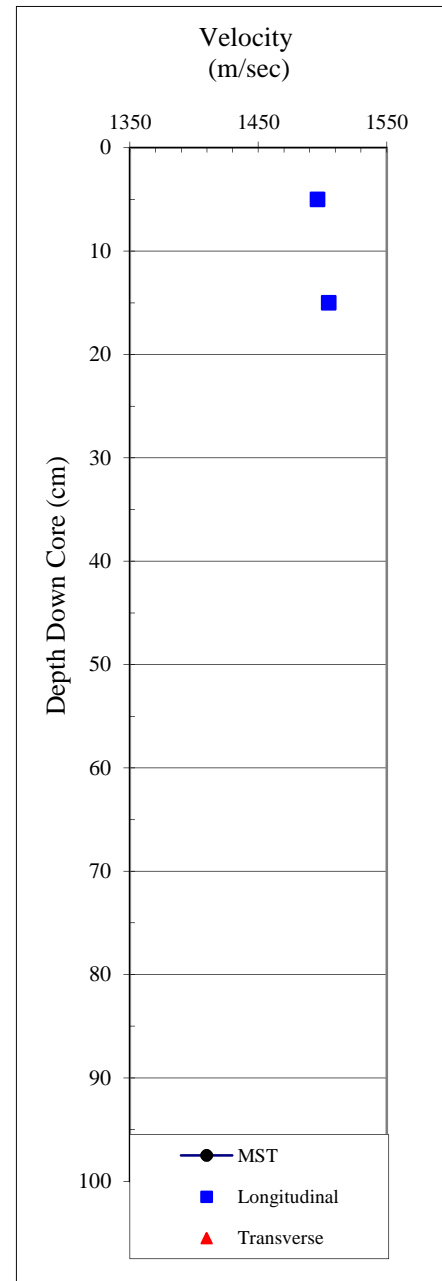
Cruise No: 2007802

Station: 12

Sample Type: **Push Core**

Data Type: Laboratory Discrete

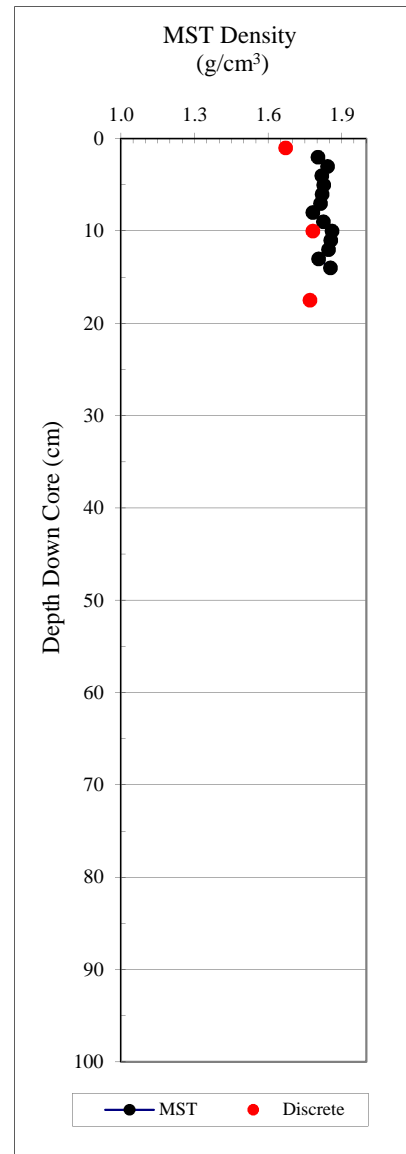
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
5		1496.08	
15		1504.89	



Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1	0.000		
2	1.803		
3	1.842		
4	1.818		
5	1.826		
6	1.819		
7	1.814		
8	1.781		
9	1.825		
10	1.860		
11	1.855		
12	1.846		
13	1.806		
14	1.853		
15			
16			
17			
17.5			



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.67	1.12	54.08	2.43	1.18	33.15	49.58
10	1.78	1.19	57.42	2.80	1.35	33.01	49.28
** 17.5	1.77	1.24	51.98	2.58	1.08	30.08	43.02

average 1.696

Cruise No: 2007802

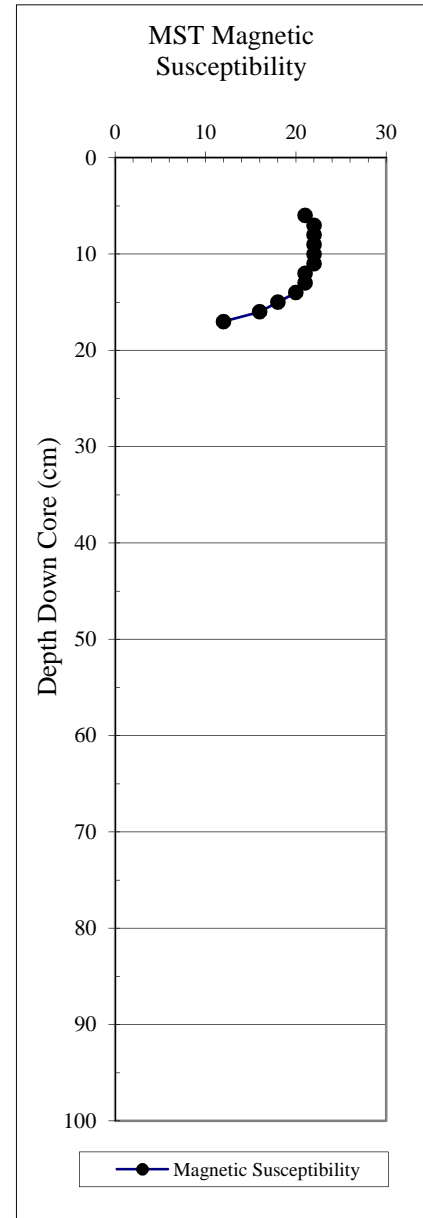
Station: L3

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
---------------	-----------------------------------

1	11.00
2	15.00
3	17.00
4	20.00
5	20.00
6	21.00
7	22.00
8	22.00
9	22.00
10	22.00
11	22.00
12	21.00
13	21.00
14	20.00
15	18.00
16	16.00
17	12.00



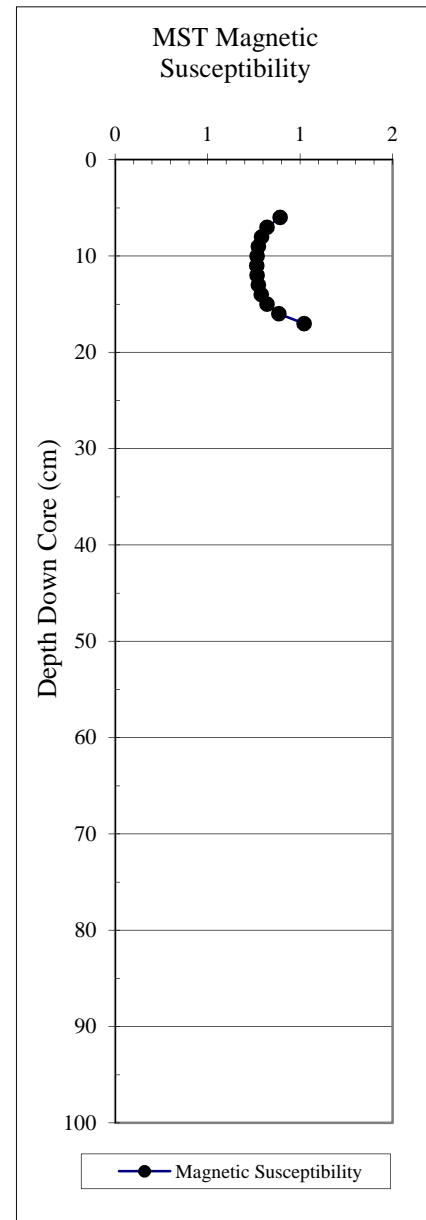
Cruise No: 2007802

Station: 13

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.610
2	2.412
3	1.883
4	1.361
5	1.051
6	0.891
7	0.822
8	0.792
9	0.774
10	0.768
11	0.766
12	0.768
13	0.774
14	0.789
15	0.822
16	0.885
17	1.021



Cruise No: 2007802

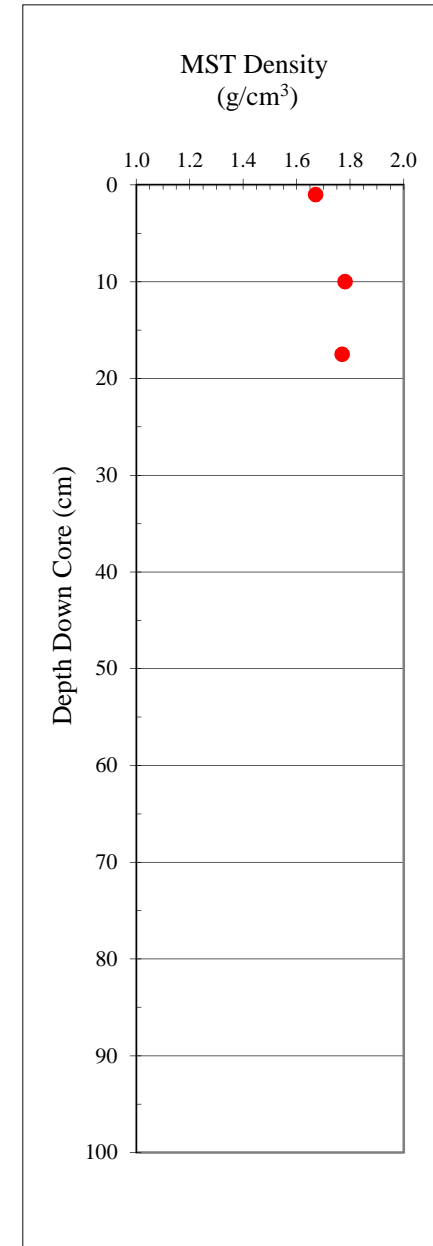
Station: L3

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

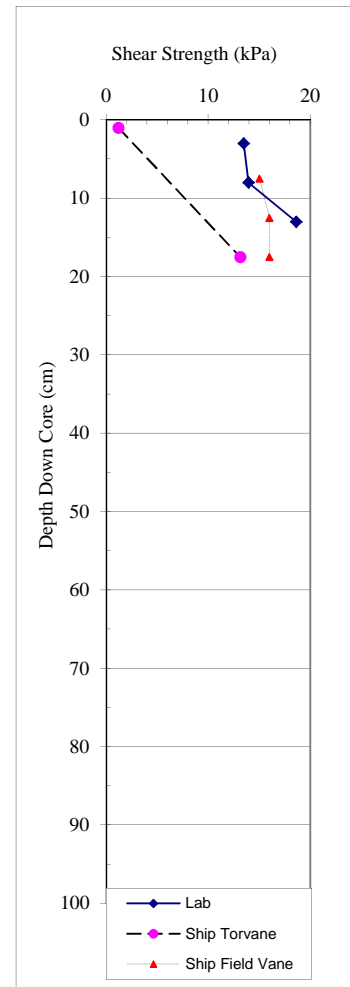
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.67	1.12	54.08	2.43	1.18	33.15	49.58
10	1.78	1.19	57.42	2.80	1.35	33.01	49.28
** 17.5	1.77	1.24	51.98	2.58	1.08	30.08	43.02



Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	13.48	3.43	3.93
8	13.94		
13	18.62	6.51	2.86



Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Shipboard Torvane

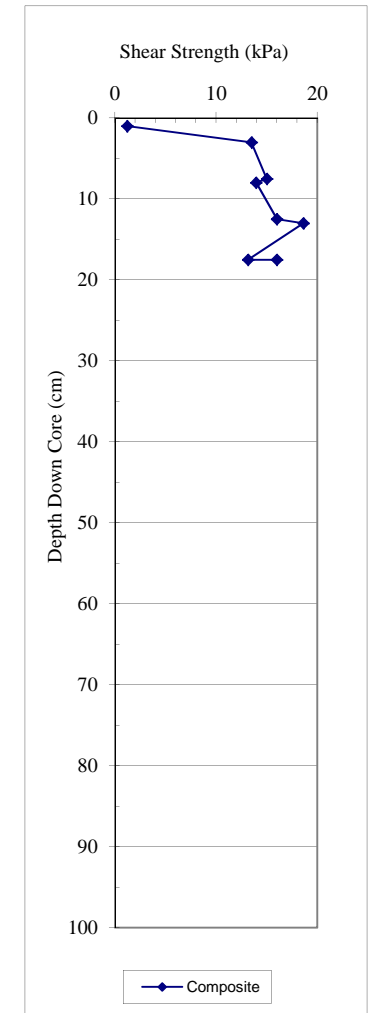
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	1.18
17.5	13.14

Cruise No: 2007802
 Station: 13
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	15.00
12.5	16.00
17.5	16.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	1.18	
3.0	13.48	3.43
7.5	15.00	
8.0	13.94	
12.5	16.00	
13.0	18.62	6.51
17.5	13.14	
17.5	16.00	



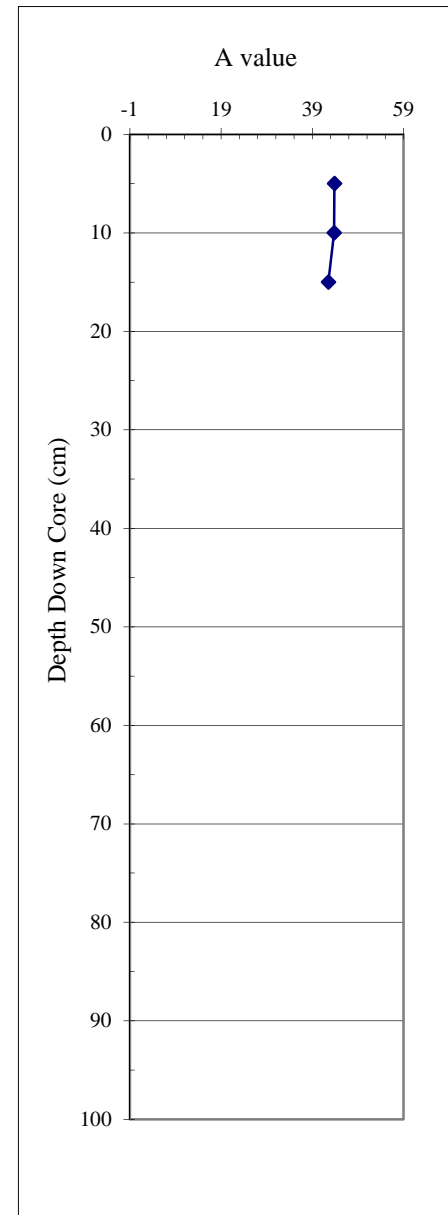
Cruise No: 2007802

Station: L3

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	43.85	0.65	3.08	4.5 Y 4.2/4
10	43.79	0.64	3.01	4.5 Y 4.2/4
15	42.51	0.91	3.71	4.2 Y 4.1/5



0.61 2.98

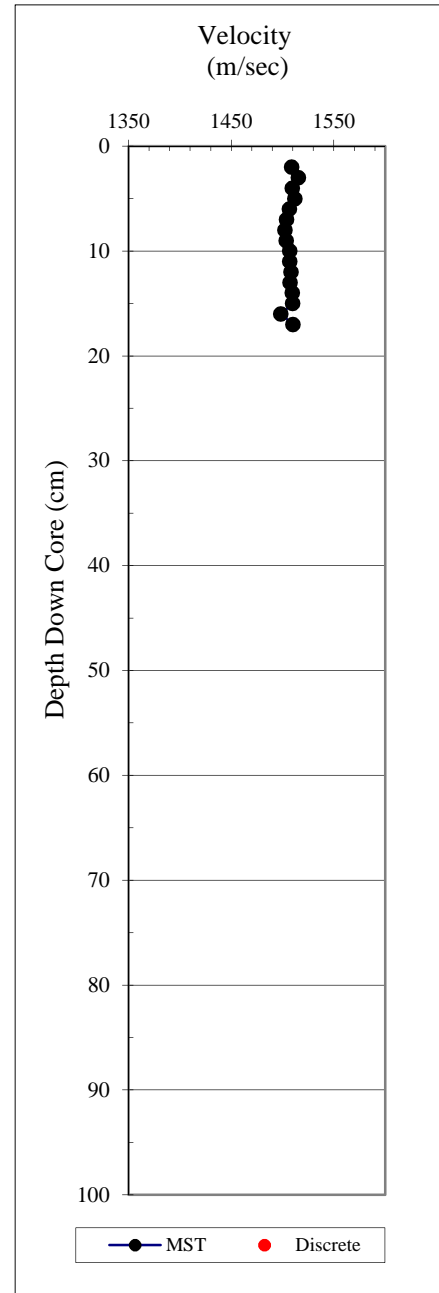
Cruise No: 2007802

Station: L3

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1509.01
3	1515.36
4	1509.49
5	1512.03
6	1506.68
7	1503.82
8	1502.40
9	1503.52
10	1506.91
11	1507.06
12	1508.19
13	1507.36
14	1509.62
15	1509.93
16	1498.29
17	1510.10



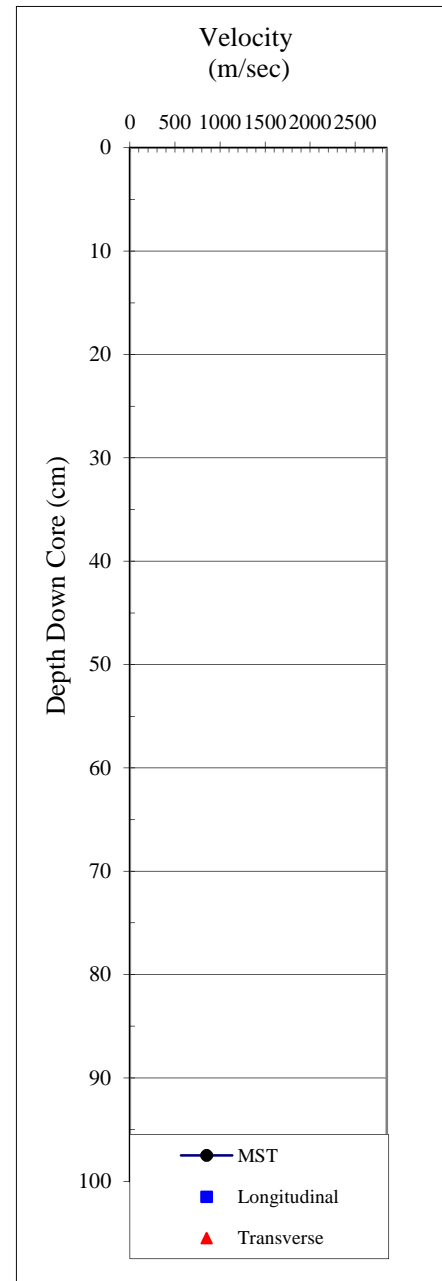
Cruise No: 2007802

Station: 13

Sample Type: **Push Core**

Data Type: Laboratory Discrete

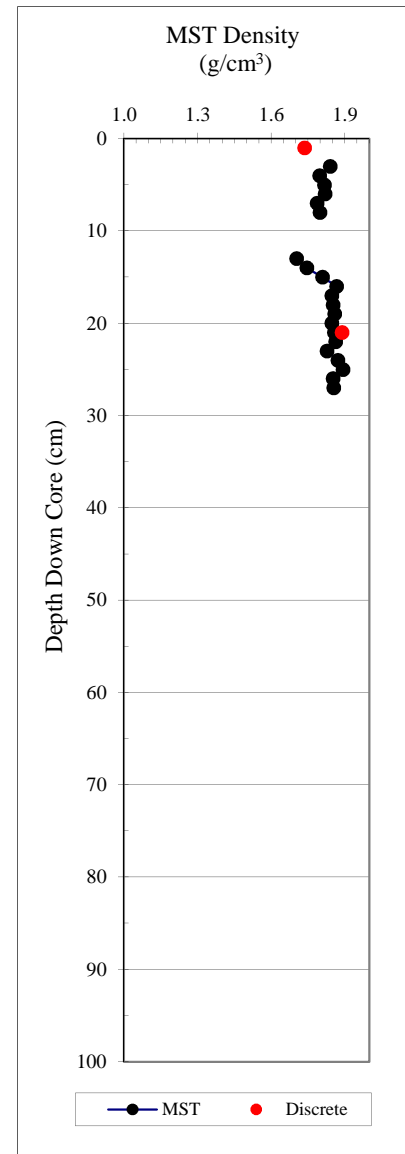
Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
8	1504.9	



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.825		
3	1.840		
4	1.797		
5	1.817		
6	1.820		
7	1.787		
8	1.799		
9			
10			
11			
12			
13	1.704		
14	1.745		
15	1.809		
16	1.867		
17	1.847		
18	1.852		
19	1.859		
20	1.847		
21	1.857		
22	1.862		
23	1.827		
24	1.872		
25	1.892		
26	1.852		
27	1.854		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.736	1.164	55.876	2.638	1.266	32.953	49.148
21	1.889	1.307	56.780	3.025	1.314	30.783	44.473

average 1.828

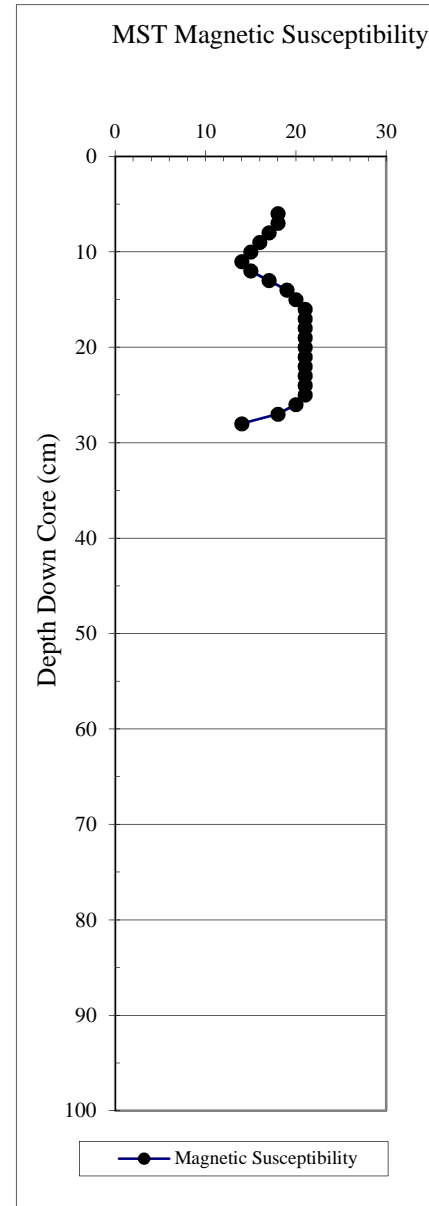
Cruise No: 2007802

Station: L5

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	11.00
2	14.00
3	15.00
4	18.00
5	18.00
6	18.00
7	18.00
8	17.00
9	16.00
10	15.00
11	14.00
12	15.00
13	17.00
14	19.00
15	20.00
16	21.00
17	21.00
18	21.00
19	21.00
20	21.00
21	21.00
22	21.00
23	21.00
24	21.00
25	21.00
26	20.00
27	18.00
28	14.00



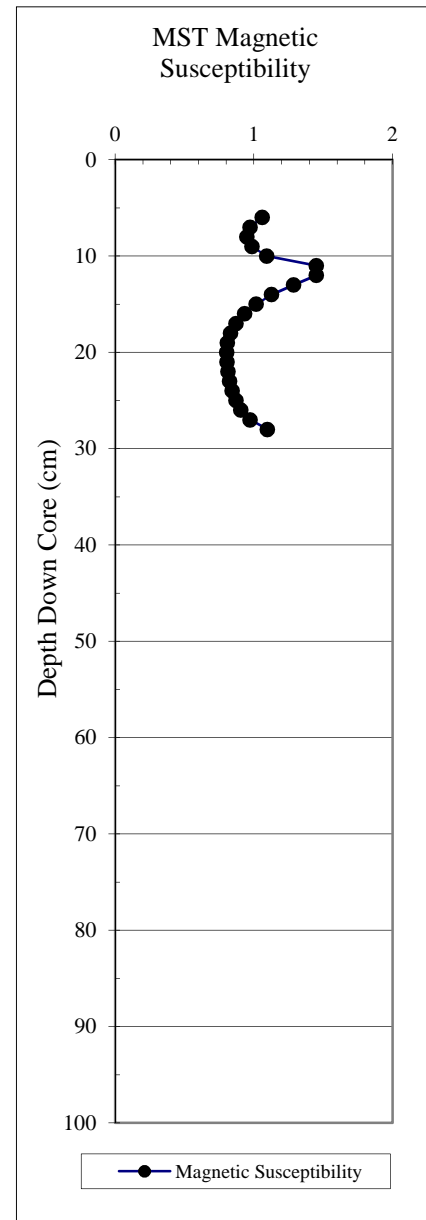
Cruise No: 2007802

Station: L5

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.123
2	1.859
3	1.654
4	1.449
5	1.226
6	1.060
7	0.974
8	0.950
9	0.986
10	1.092
11	1.449
12	1.449
13	1.286
14	1.128
15	1.016
16	0.932
17	0.872
18	0.831
19	0.809
20	0.805
21	0.807
22	0.814
23	0.826
24	0.844
25	0.872
26	0.905
27	0.974
28	1.098



Cruise No: 2007802

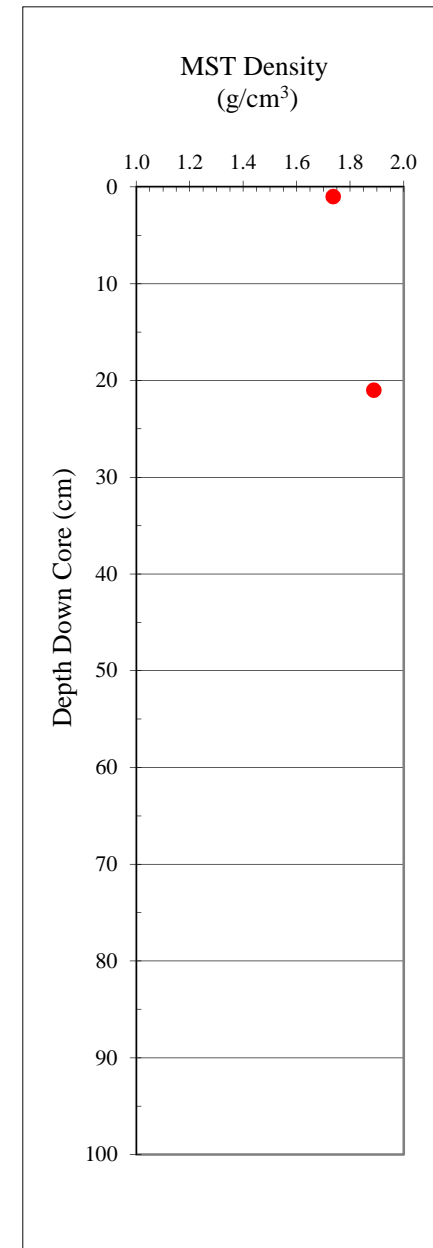
Station: L5

Sample Type: GRAVITYCore

Data Type: Discrete Laboratory Measurements

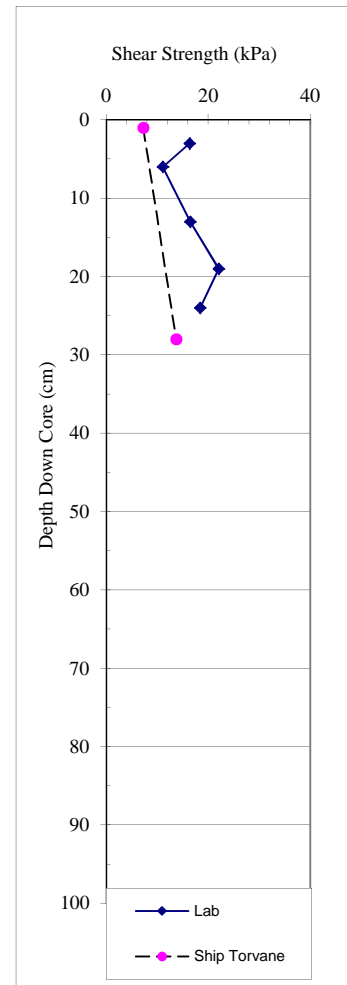
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.736	1.164	55.876	2.638	1.266	32.953	49.148
21	1.889	1.307	56.780	3.025	1.314	30.783	44.473



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	16.34	3.20	5.11
6	11.08		
13	16.45	4.80	3.43
19	22.05		
24	18.39	9.02	2.04



Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Shipboard Torvane

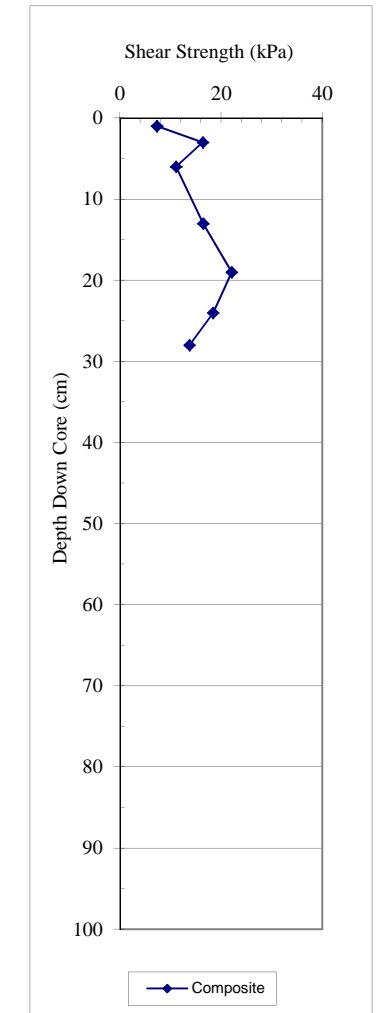
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	7.26
28	13.73

Cruise No: 2007802
 Station: 15
 Sample Type: GRAVITYCore
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	7.26	
3	16.34	3.20
6	11.08	
13	16.45	4.80
19	22.05	
24	18.39	9.02
28	13.73	



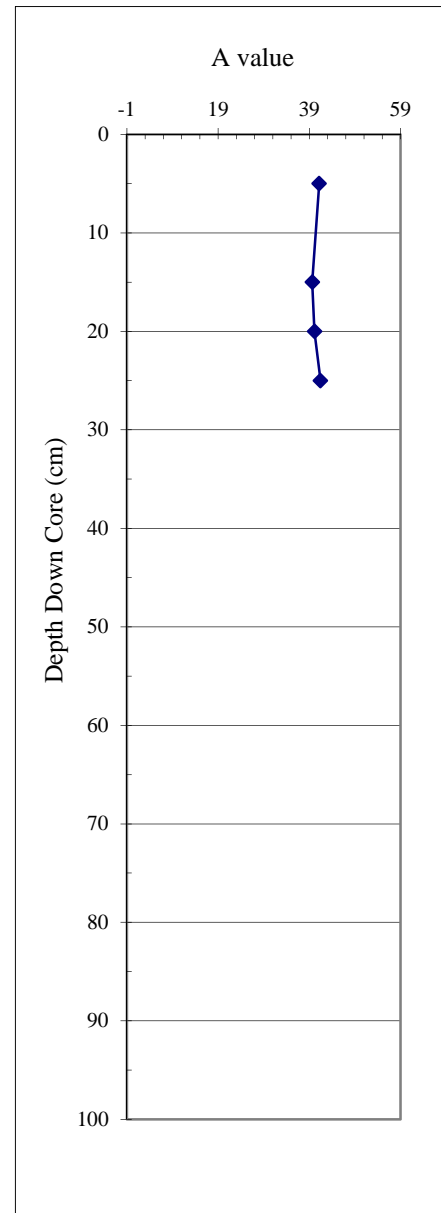
Cruise No: 2007802

Station: 15

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	41.15	0.61	3.22	5.0 Y 4.0/4
15	39.65	0.6	3.12	5.2 Y 3.8/4
20	40.14	0.34	2.6	6.3 Y 3.9/4
25	41.45	0.64	3.29	5.0 Y 4.0/4



Cruise No: 2007802

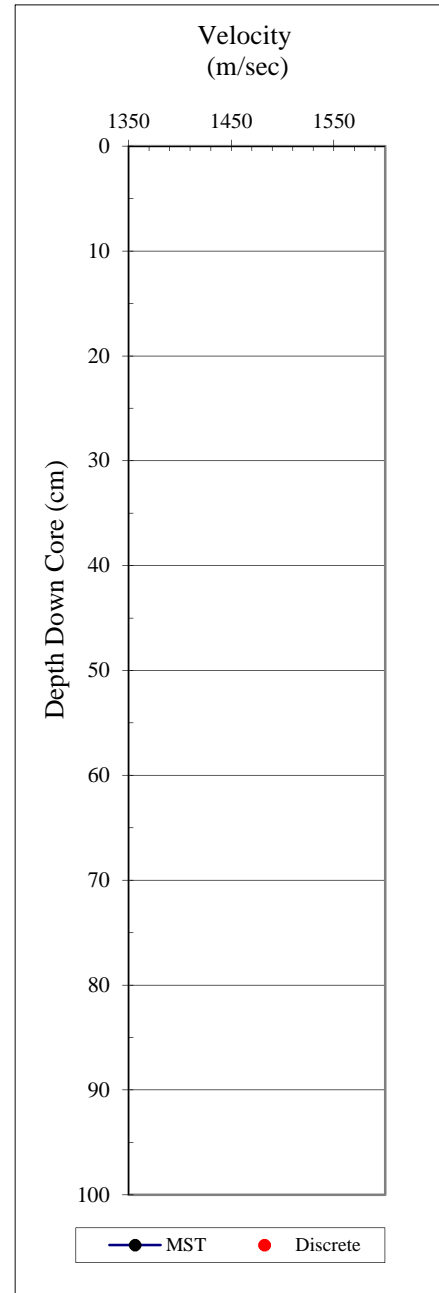
Station: L5

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

NA



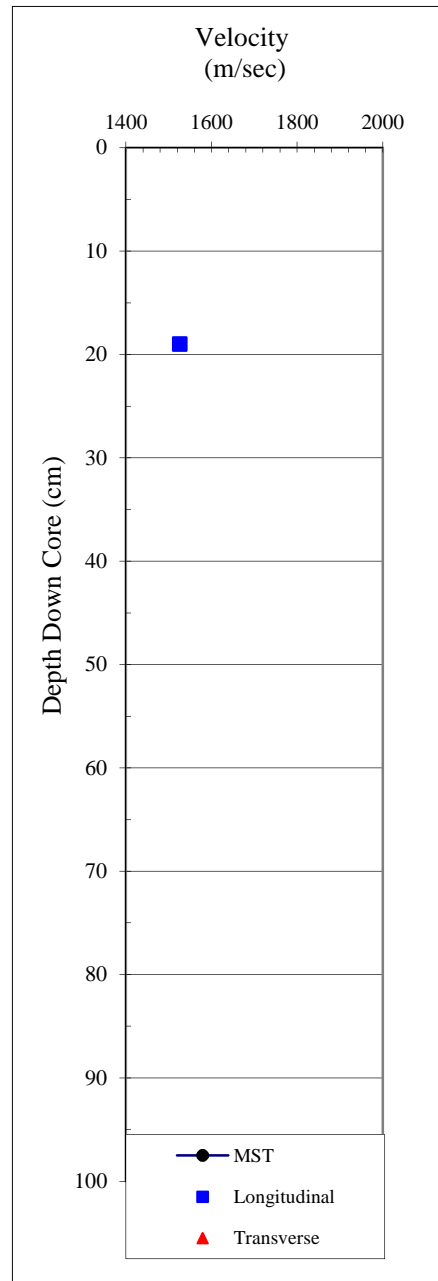
Cruise No: 2007802

Station: 15

Sample Type: **Push Core**

Data Type: Laboratory Discrete

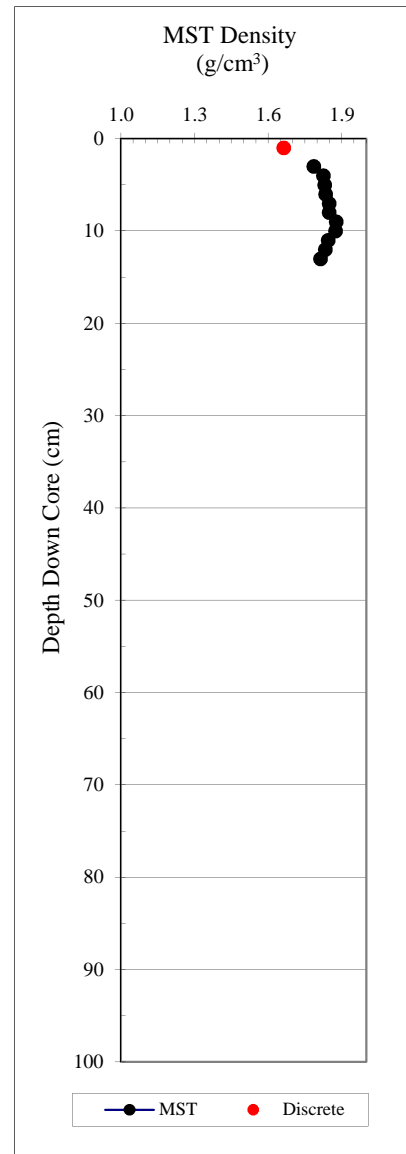
Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
19	1525.87	



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.787		
3	1.785		
4	1.825		
5	1.829		
6	1.834		
7	1.848		
8	1.848		
9	1.876		
10	1.874		
11	1.844		
12	1.833		
13	1.813		



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.663	1.082	56.761	2.502	1.313	34.952	53.733

average 1.833

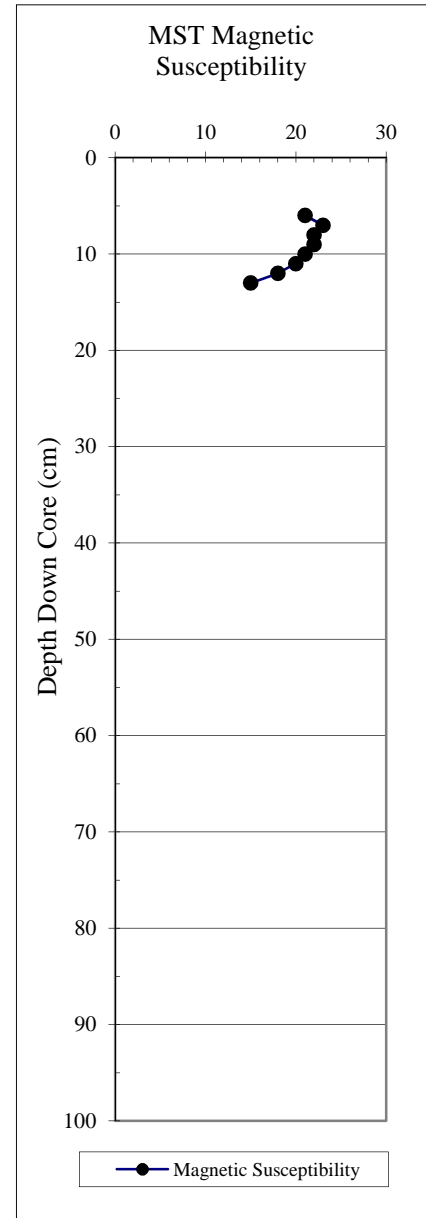
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	14.00
3	17.00
4	19.00
5	20.00
6	21.00
7	23.00
8	22.00
9	22.00
10	21.00
11	20.00
12	18.00
13	15.00



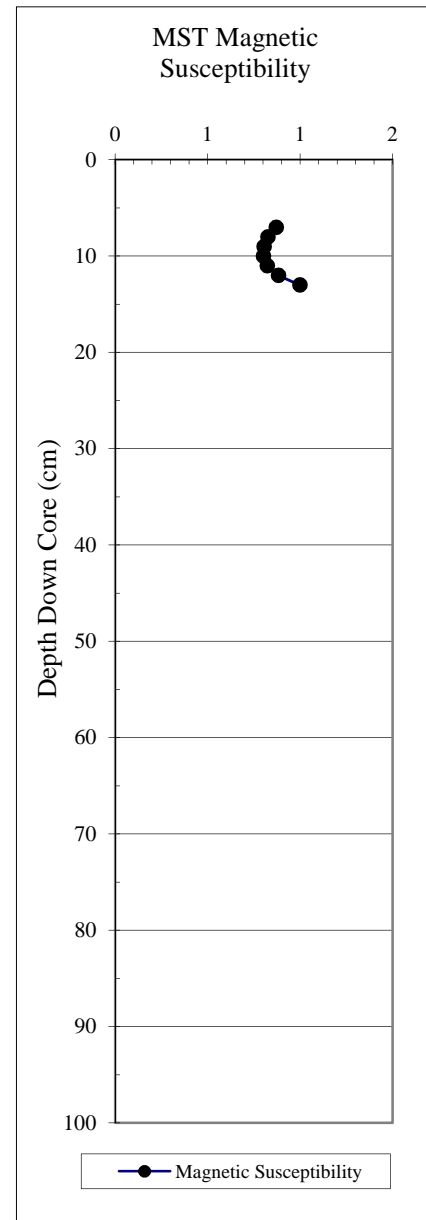
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
2	2.255
3	1.916
4	1.462
5	1.141
6	0.962
7	0.872
8	0.826
9	0.805
10	0.802
11	0.824
12	0.883
13	0.999



Cruise No: 2007802

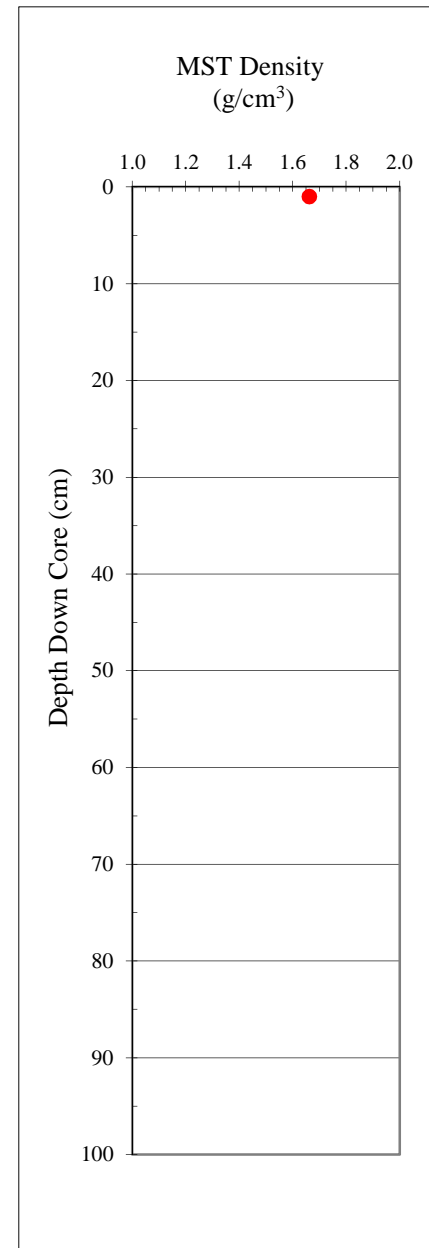
Station: 16

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

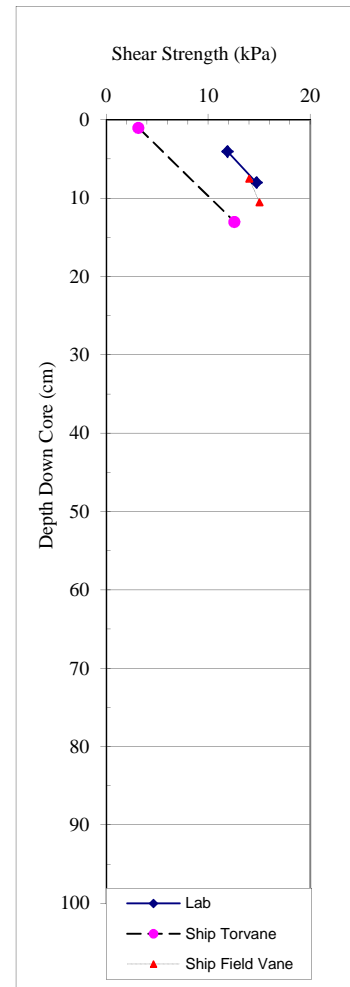
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.663	1.082	56.761	2.502	1.313	34.952	53.733



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	11.88	4.57	2.60
8	14.74		



Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Torvane

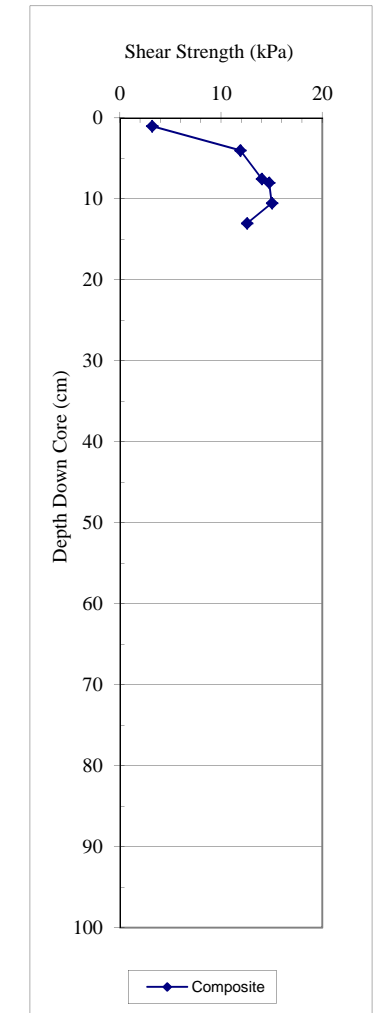
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	3.14
13	12.55

Cruise No: 2007802
 Station: 16
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	14.00
10.5	15.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	3.14	
4	11.88	4.57
7.5	14.00	
8	14.74	
10.5	15.00	
13	12.55	



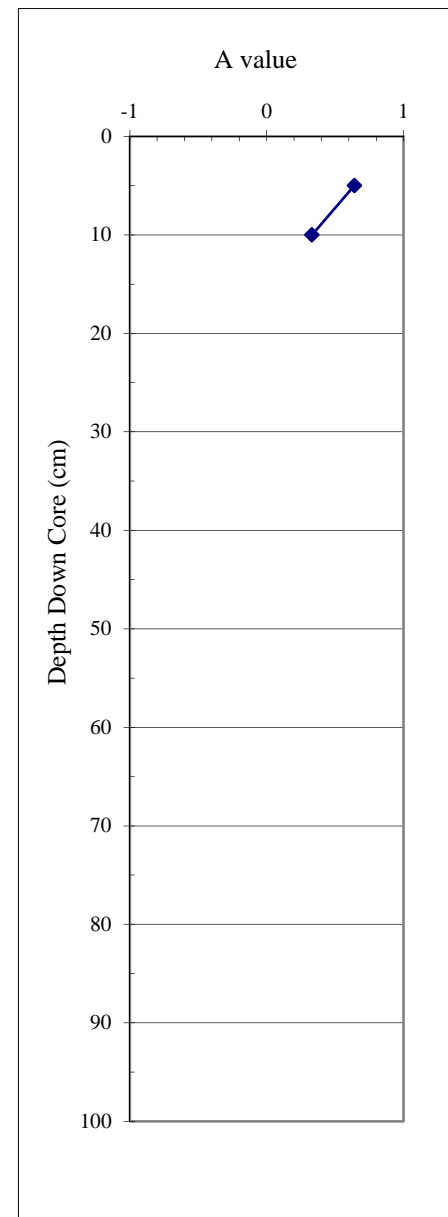
Cruise No: 2007802

Station: 16

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.64	3.48	39.49	5.5 Y 3.8/5
10	0.33	2.73	38.9	7.0 Y 3.8/4



0.61

2.98

Cruise No: 2007802

Station: 16

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1510.65
4	1503.74
5	1532.75
6	1524.91
7	1530.55
8	1535.07
9	1538.44
10	1535.12
11	1534.66
12	1542.92
13	1553.16

Cruise No: 2007802

Station: 16

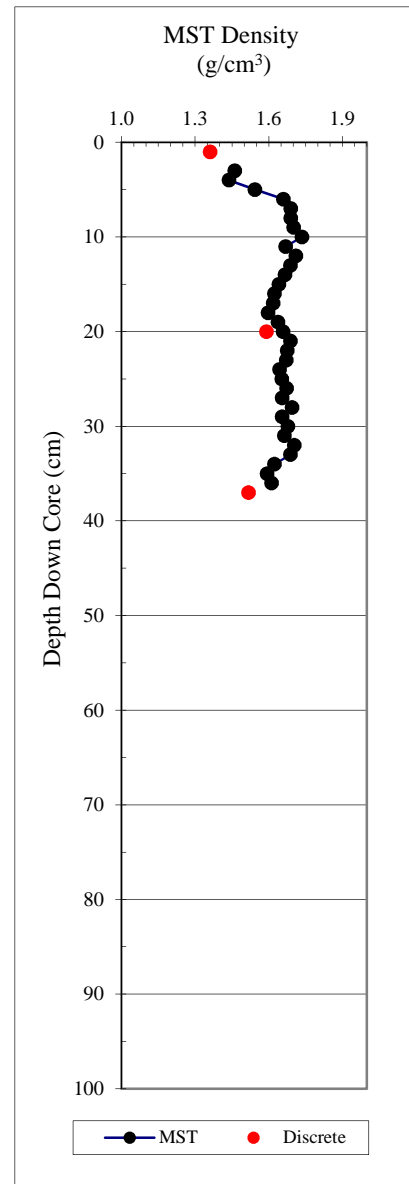
Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
7	1516.81	

Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.465
3	1.462
4	1.438
5	1.545
6	1.660
7	1.690
8	1.690
9	1.702
10	1.735
11	1.669
12	1.711
13	1.689
14	1.667
15	1.642
16	1.624
17	1.618
18	1.597
19	1.638
20	1.659
21	1.688
22	1.675
23	1.672
24	1.644
25	1.653
26	1.673
27	1.655
28	1.695
29	1.655
30	1.679
31	1.664
32	1.704
33	1.689
34	1.624
35	1.593
36	1.612



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.362	0.680	66.566	2.034	1.991	50.061	100.243
20	1.591	0.885	68.911	2.846	2.217	44.366	79.747
** 37	1.518	0.900	60.316	2.268	1.520	40.695	68.620

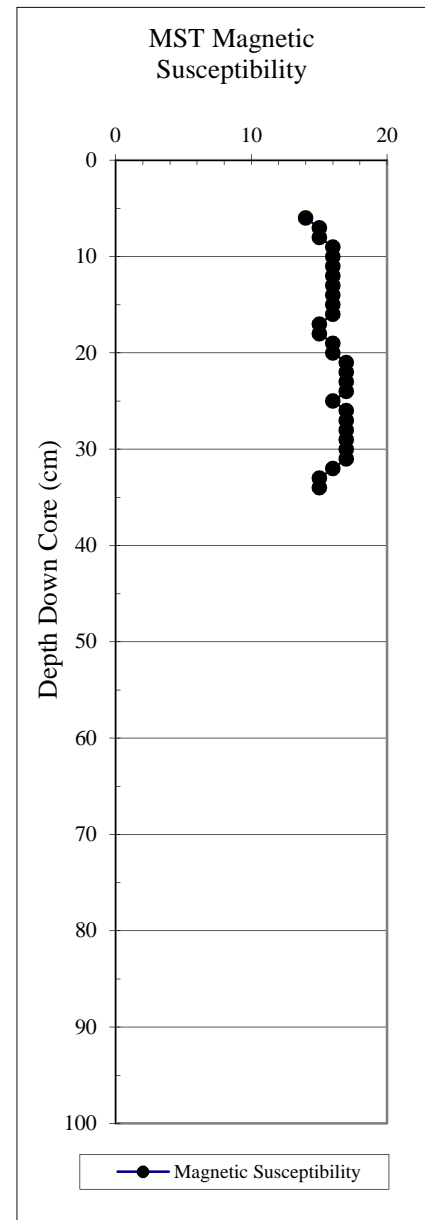
Cruise No: 2007802

Station: 17

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	6.00
2	9.00
3	11.00
4	12.00
5	13.00
6	14.00
7	15.00
8	15.00
9	16.00
10	16.00
11	16.00
12	16.00
13	16.00
14	16.00
15	16.00
16	16.00
17	15.00
18	15.00
19	16.00
20	16.00
21	17.00
22	17.00
23	17.00
24	17.00
25	16.00
26	17.00
27	17.00
28	17.00
29	17.00
30	17.00
31	17.00
32	16.00
33	15.00
34	15.00
35	13.00
36	10.00



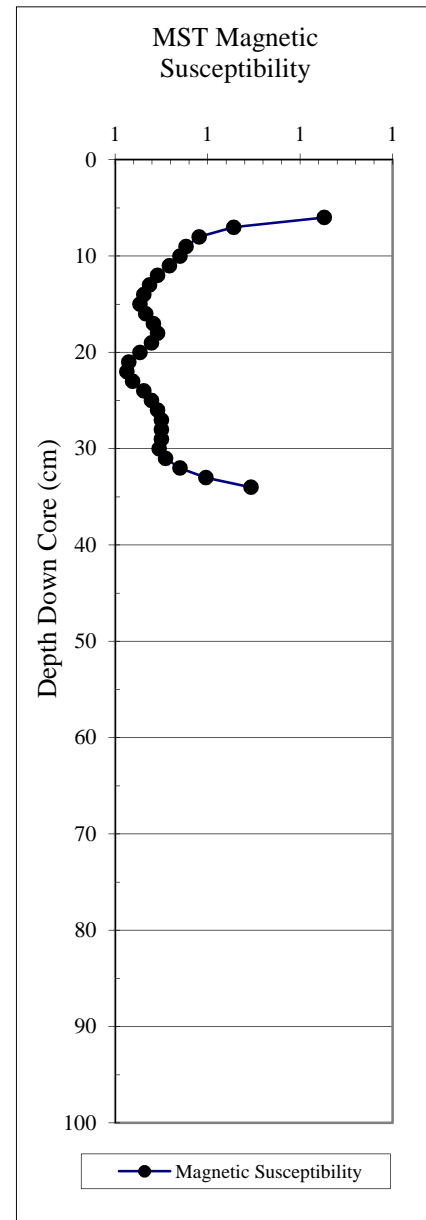
Cruise No: 2007802

Station: 17

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.978
2	1.783
3	1.399
4	1.040
5	0.821
6	0.713
7	0.664
8	0.646
9	0.638
10	0.635
11	0.629
12	0.623
13	0.619
14	0.616
15	0.613
16	0.617
17	0.621
18	0.623
19	0.620
20	0.613
21	0.607
22	0.606
23	0.609
24	0.616
25	0.620
26	0.623
27	0.625
28	0.625
29	0.625
30	0.624
31	0.627
32	0.635
33	0.649
34	0.673
35	0.720
36	0.809



Cruise No: 2007802

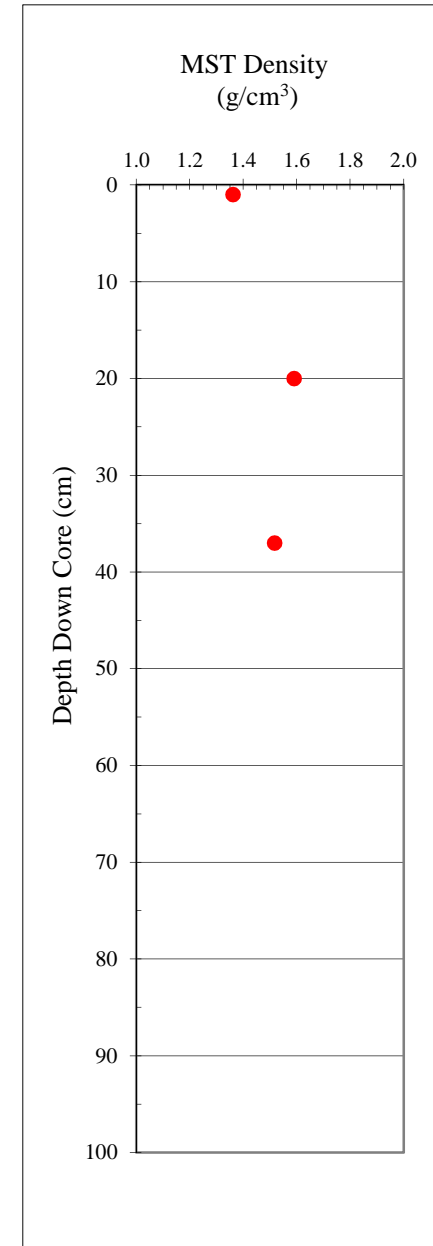
Station: 17

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

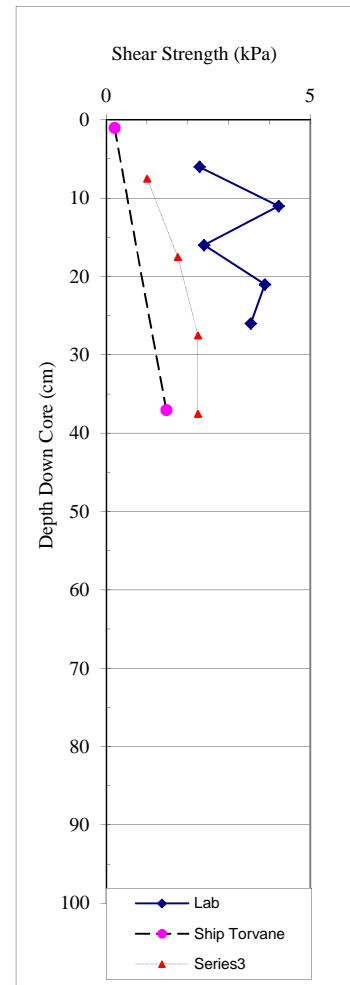
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.362	0.680	66.566	2.034	1.991	50.061	100.243
20	1.591	0.885	68.911	2.846	2.217	44.366	79.747
** 37	1.518	0.900	60.316	2.268	1.520	40.695	68.620



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
6	2.28	1.60	1.43
11	4.23		
16	2.40	2.17	1.11
21	3.88		
26	3.54	2.06	1.72
32	4.46		



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Shipboard Torvane

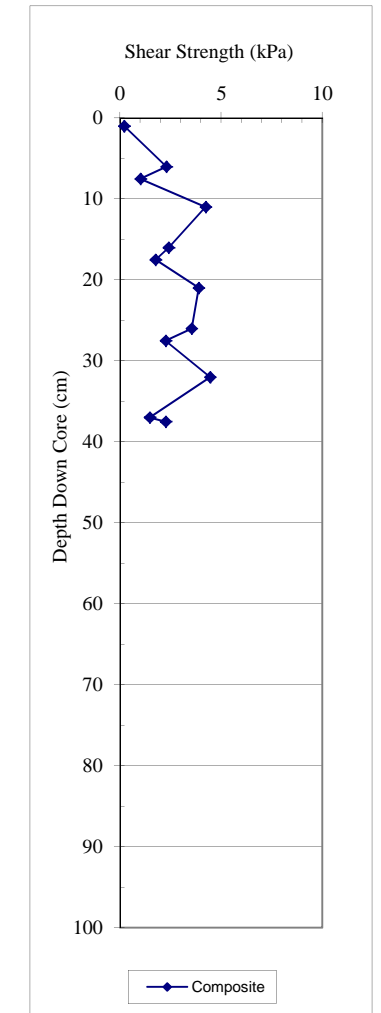
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
37	1.47

Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
17.5	1.75
27.5	2.25
37.5	2.25

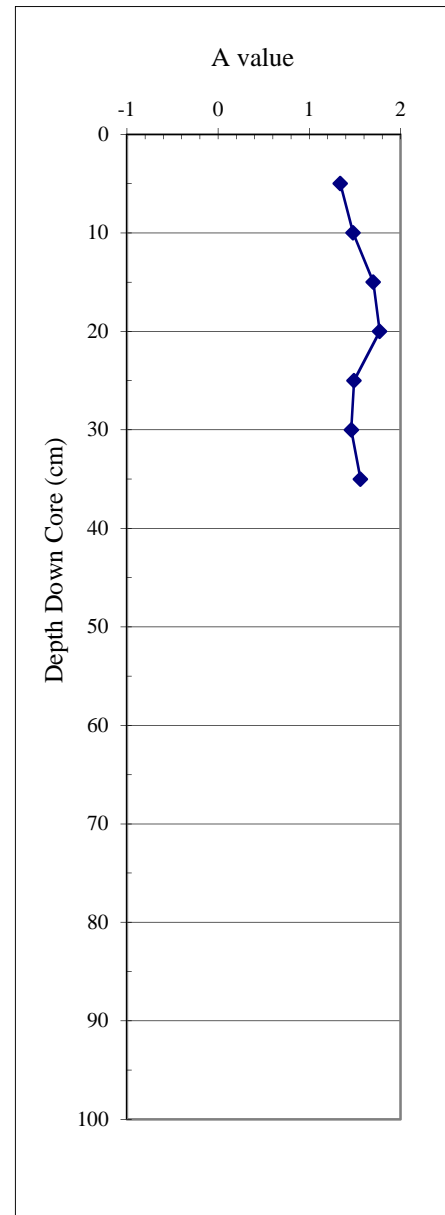
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
6	2.28	1.60
7.5	1.00	
11	4.23	
16	2.40	2.17
17.5	1.75	
21	3.88	
26	3.54	2.06
27.5	2.25	
32	4.46	
37	1.47	
37.5	2.25	



Cruise No: 2007802
 Station: 17
 Sample Type: Push Core
 Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.34	4.88	41.97	3.8 Y 4.0/.7
10	1.48	5.3	41.26	3.7 Y 4.0/.7
15	1.7	5.9	40.2	3.6 Y 3.9/.8
20	1.77	6.16	39.62	3.6 Y 3.8/.8
25	1.49	4.61	43.6	3.0 Y 4.2/.6
30	1.46	4.91	42.81	3.4 Y 4.1/.7
35	1.56	4.89	42.96	3.0 Y 4.1/.7



0.61 2.98

Cruise No: 2007802

Station: 17

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.51
3	1467.46
4	3283.75
5	1475.68
6	1466.34
7	1466.64
8	1467.48
9	1468.27
10	1468.12
11	1465.95
12	1463.79
13	1462.71
14	1460.55
15	1455.20
16	1456.27
17	1454.13
18	1456.27
19	1455.20
20	1455.20
21	1456.41
22	1458.85
23	1459.00
24	1458.22
25	1457.15
26	1458.36
27	1458.51
28	1458.51
29	1461.73
30	1466.05
31	1471.48
32	1474.76
33	1481.21
34	1480.91
35	1483.32
36	1495.02

Cruise No: 2007802

Station: 17

Sample Type: ***Push Core***

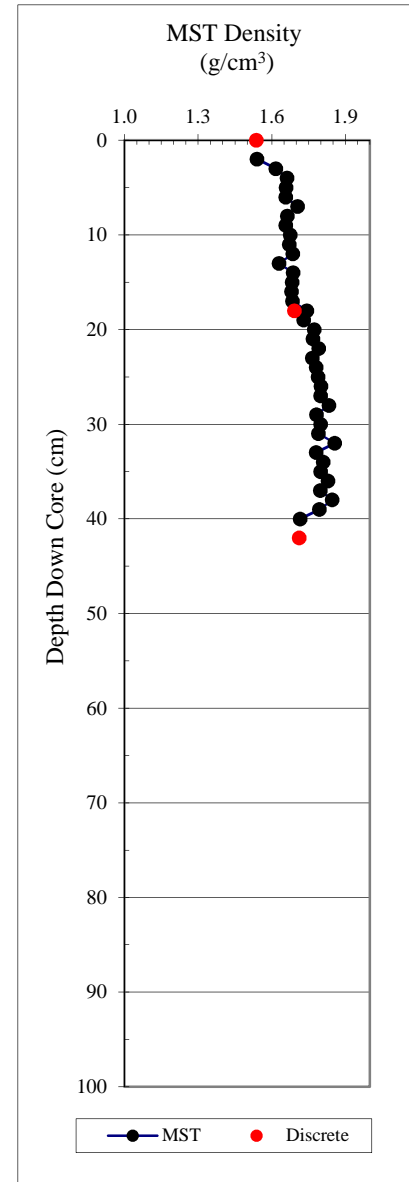
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
6	1459.05	
16	1459.05	
26	1461.84	

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.540
3	1.617
4	1.662
5	1.659
6	1.657
7	1.706
8	1.664
9	1.657
10	1.676
11	1.672
12	1.687
13	1.630
14	1.687
15	1.683
16	1.681
17	1.686
18	1.743
19	1.730
20	1.773
21	1.768
22	1.791
23	1.765
24	1.781
25	1.789
26	1.801
27	1.800
28	1.833
29	1.783
30	1.800
31	1.791
32	1.858
33	1.781
34	1.810
35	1.800
36	1.829
37	1.798
38	1.847
39	1.795
40	1.716



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.537	0.874	64.753	2.479	1.837	43.143	75.879
** 18	1.692	1.031	64.531	2.908	1.819	39.052	64.073
** 42	1.712	1.116	58.178	2.669	1.391	34.801	53.376

Cruise No: 2007802

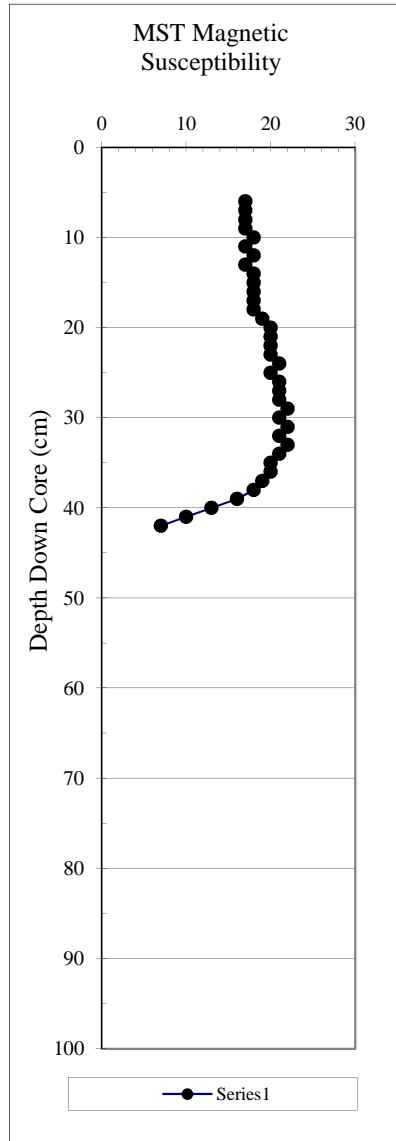
Station: 18

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
------------	-----------------------------

1	8.00
2	11.00
3	13.00
4	15.00
5	15.00
6	17.00
7	17.00
8	17.00
9	17.00
10	18.00
11	17.00
12	18.00
13	17.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	19.00
20	20.00
21	20.00
22	20.00
23	20.00
24	21.00
25	20.00
26	21.00
27	21.00
28	21.00
29	22.00
30	21.00
31	22.00
32	21.00
33	22.00
34	21.00
35	20.00
36	20.00
37	19.00
38	18.00
39	16.00
40	13.00
41	10.00
42	7.00



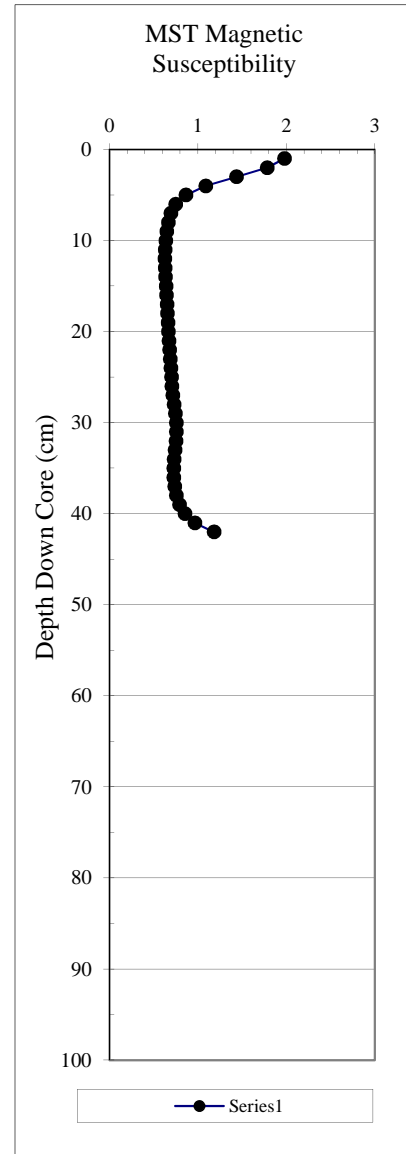
Cruise No: 2007802

Station: 18

Sample Type: Push Core

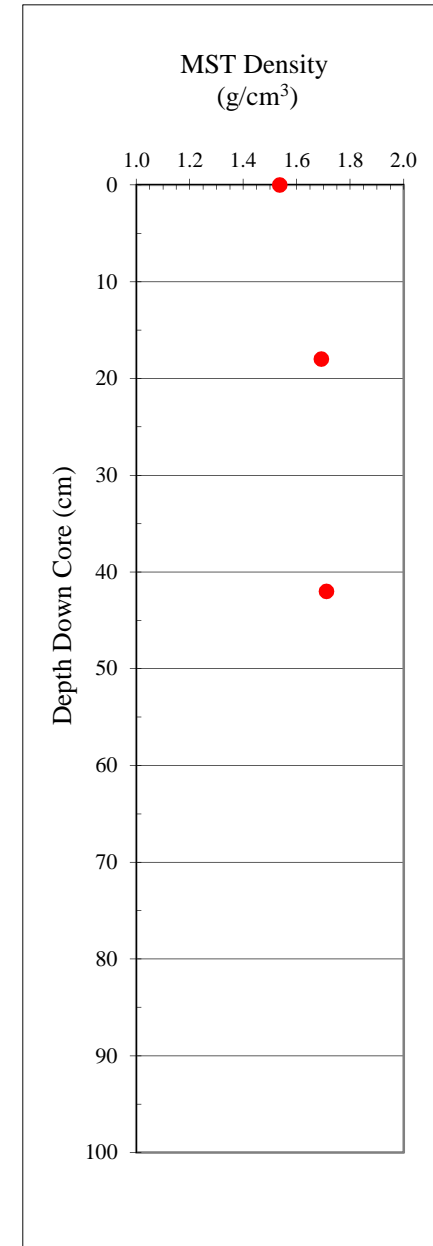
Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.978
2	1.783
3	1.436
4	1.087
5	0.866
6	0.749
7	0.693
8	0.664
9	0.647
10	0.637
11	0.629
12	0.627
13	0.629
14	0.633
15	0.640
16	0.646
17	0.650
18	0.655
19	0.660
20	0.667
21	0.673
22	0.682
23	0.689
24	0.695
25	0.701
26	0.707
27	0.716
28	0.730
29	0.744
30	0.755
31	0.757
32	0.751
33	0.740
34	0.730
35	0.726
36	0.728
37	0.737
38	0.757
39	0.791
40	0.852
41	0.966
42	1.181



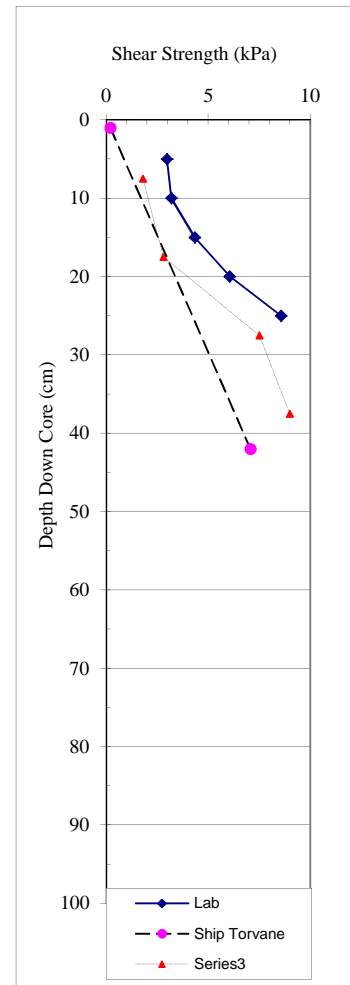
Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.537	0.874	64.753	2.479	1.837	43.143	75.879
18	1.692	1.031	64.531	2.908	1.819	39.052	64.073
** 42	1.712	1.116	58.178	2.669	1.391	34.801	53.376



Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.97	2.28	1.30
10	3.20		
15	4.34	4.00	1.09
20	6.05		
25	8.57	1.83	4.69
31	8.45		
36	10.62	3.20	3.32



Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Shipboard Torvane

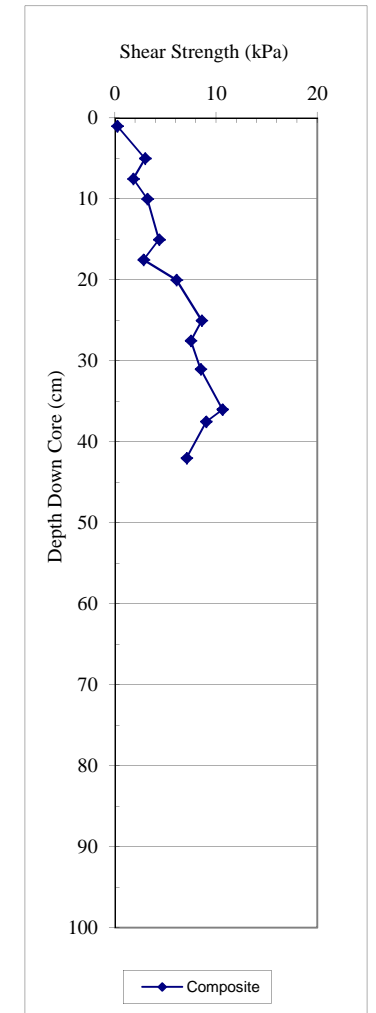
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
42	7.06

Cruise No: 2007802
 Station: 18
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.80
17.5	2.80
27.5	7.50
37.5	9.00

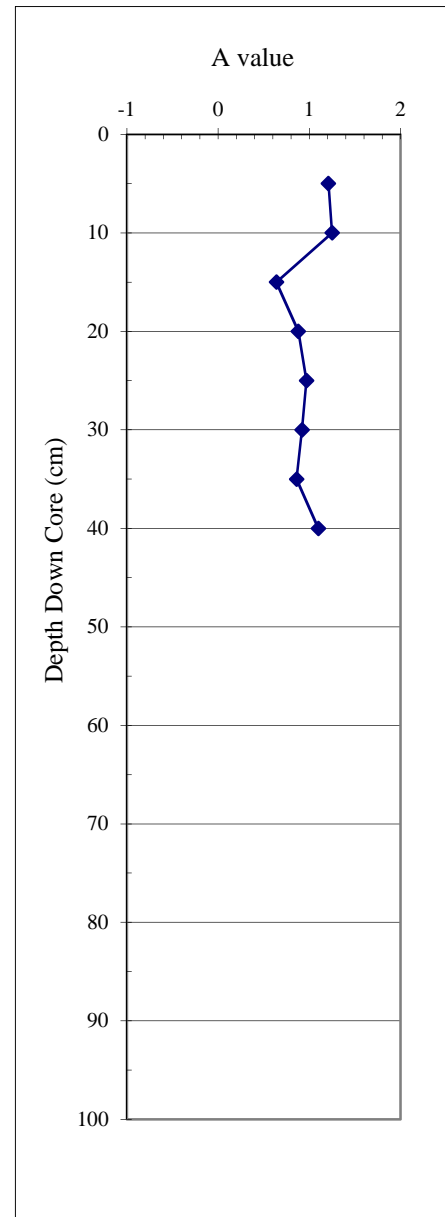
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
5	2.97	2.28
7.5	1.80	
10	3.20	
15	4.34	4.00
17.5	2.80	
20	6.05	
25	8.57	1.83
27.5	7.50	
31	8.45	
36	10.62	3.20
37.5	9.00	
42.0	7.06	



Cruise No: 2007802
Station: 18
Sample Type: Push Core
Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.21	4.83	39.8	4.2 Y 3.8/7
10	1.25	5.18	39.59	4.3 Y 3.8/7
15	0.64	2.83	45.31	4.3 Y 4.4/4
20	0.88	4.3	40.31	4.9 Y 3.9/6
25	0.97	4.53	39.23	4.8 Y 3.8/6
30	0.92	4.05	39.78	4.5 Y 3.8/6
35	0.86	4.02	39.71	4.8 Y 3.8/6
40	1.1	4.61	40.17	4.4 Y 3.9/6



0.61 2.98

Cruise No: 2007802

Station: 18

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1462.54
3	1465.96
4	1467.03
5	1477.27
6	1466.98
7	1465.90
8	1469.45
9	1465.75
10	1462.99
11	1463.78
12	1462.55
13	1461.32
14	1462.40
15	1462.40
16	1461.32
17	1464.57
18	1468.91
19	1473.29
20	1476.58
21	1479.89
22	1479.89
23	1478.94
24	1478.13
25	1481.90
26	1484.57
27	1487.10
28	1491.87
29	1499.09
30	1499.24
31	1488.15
32	1488.30
33	1488.45
34	1493.08
35	1494.20
36	1490.83
37	1491.95
38	1491.95
39	1491.95

Cruise No: 2007802

Station: 18

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
9	1459.05	
19	1473.08	
31	1493.17	

Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

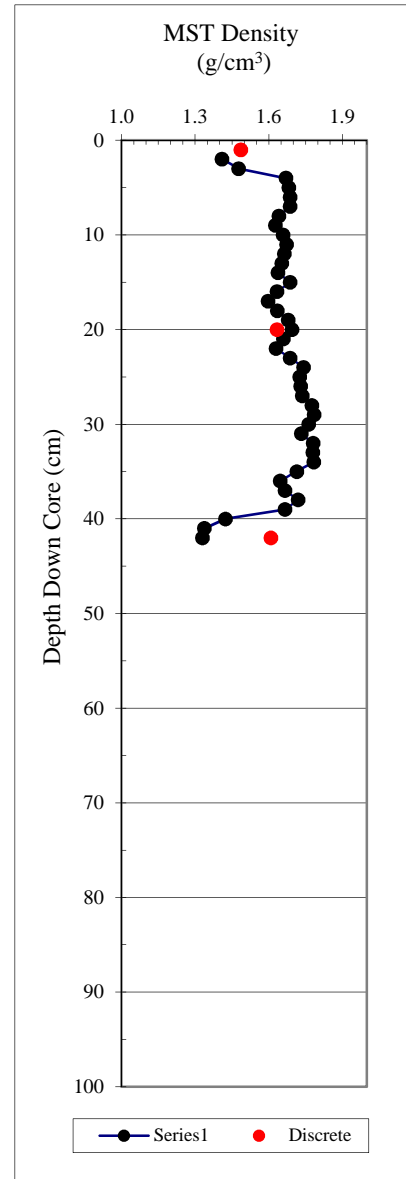
Station: 19

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.410
3	1.478
4	1.670
5	1.683
6	1.687
7	1.687
8	1.642
9	1.628
10	1.659
11	1.674
12	1.664
13	1.654
14	1.638
15	1.688
16	1.635
17	1.598
18	1.635
19	1.679
20	1.695
21	1.660
22	1.630
23	1.687
24	1.743
25	1.727
26	1.730
27	1.738
28	1.776
29	1.785
30	1.763
31	1.733
32	1.782
33	1.780
34	1.784
35	1.714
36	1.647
37	1.667
38	1.720
39	1.667
40	1.425
41	1.338
42	1.331



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.487	0.842	63.019	2.276	1.704	43.401	76.680
20	1.634	0.960	65.806	2.808	1.925	41.238	70.179
** 42	1.609	0.977	61.678	2.550	1.609	39.256	64.626

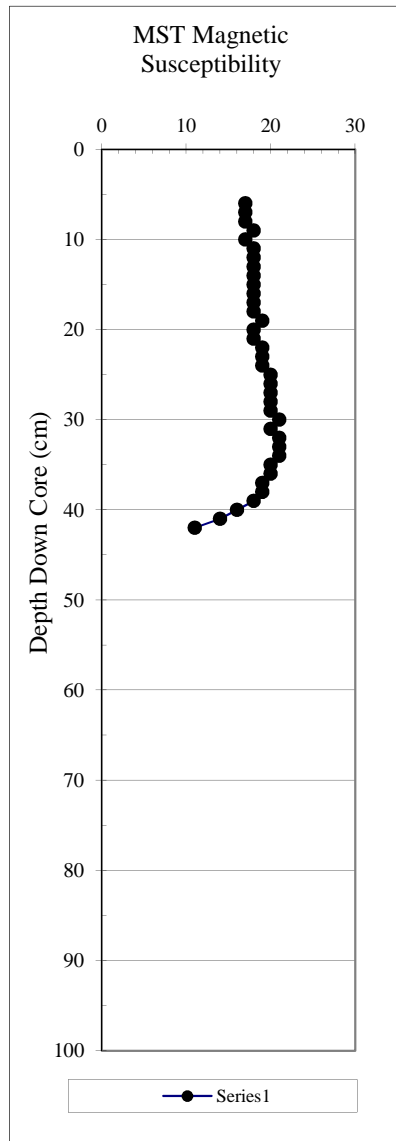
Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	12.00
3	14.00
4	15.00
5	17.00
6	17.00
7	17.00
8	17.00
9	18.00
10	17.00
11	18.00
12	18.00
13	18.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	19.00
20	18.00
21	18.00
22	19.00
23	19.00
24	19.00
25	20.00
26	20.00
27	20.00
28	20.00
29	20.00
30	21.00
31	20.00
32	21.00
33	21.00
34	21.00
35	20.00
36	20.00
37	19.00
38	19.00
39	18.00
40	16.00
41	14.00
42	11.00



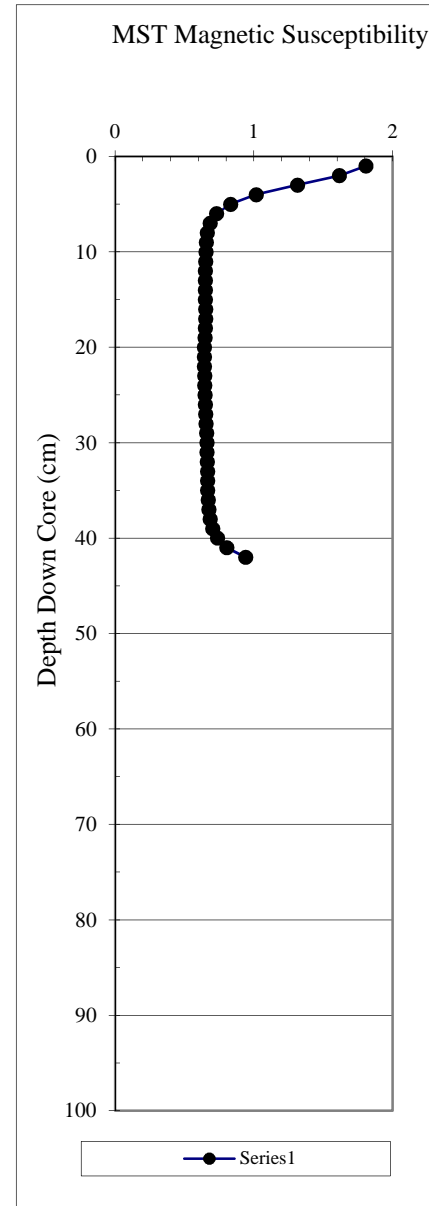
Cruise No: 2007802

Station: 19

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.807
2	1.617
3	1.314
4	1.016
5	0.831
6	0.731
7	0.684
8	0.664
9	0.657
10	0.654
11	0.652
12	0.650
13	0.649
14	0.649
15	0.650
16	0.653
17	0.652
18	0.649
19	0.647
20	0.643
21	0.642
22	0.643
23	0.646
24	0.646
25	0.647
26	0.649
27	0.652
28	0.655
29	0.659
30	0.662
31	0.662
32	0.664
33	0.665
34	0.665
35	0.667
36	0.669
37	0.675
38	0.684
39	0.702
40	0.738
41	0.805
42	0.939



Cruise No: 2007802

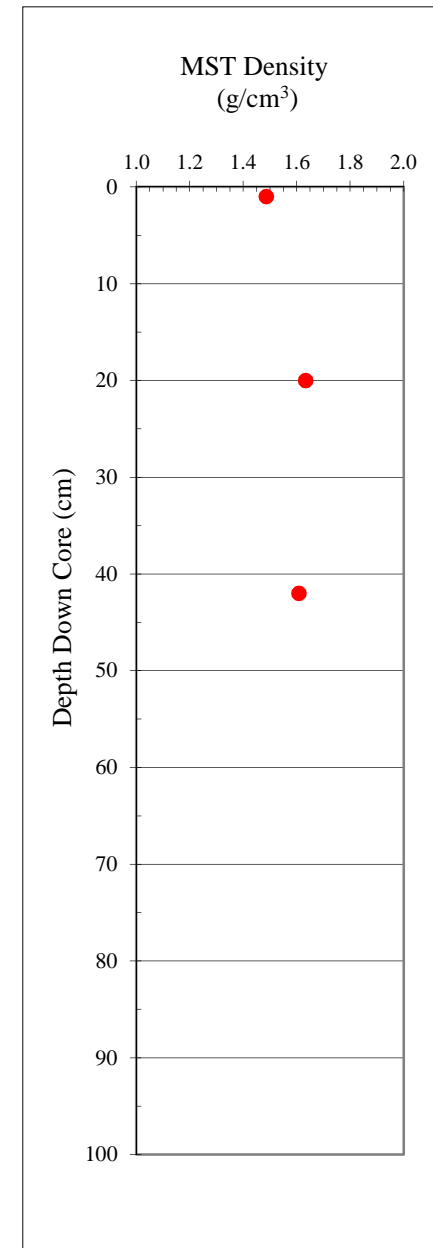
Station: 19

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

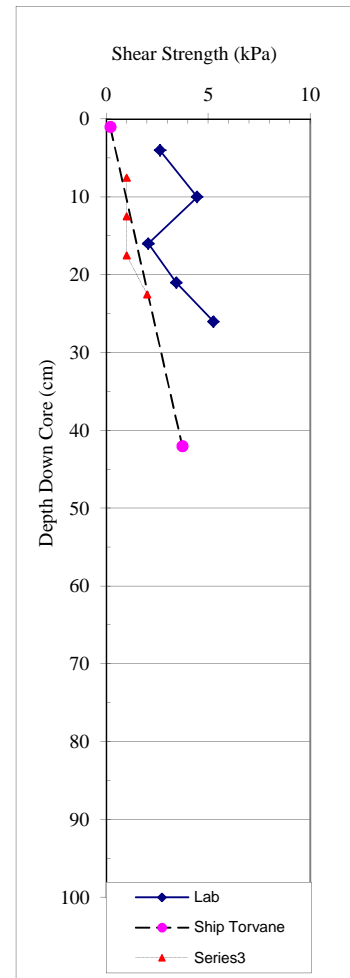
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.487	0.842	63.019	2.276	1.704	43.401	76.680
20	1.634	0.960	65.806	2.808	1.925	41.238	70.179
** 42	1.609	0.977	61.678	2.550	1.609	39.256	64.626



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	2.63	3.31	0.79
10	4.46		
16	2.06	1.83	1.12
21	3.43		
26	5.25	2.63	2.00
31	6.28		
40	5.37	1.37	3.92



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Shipboard Torvane

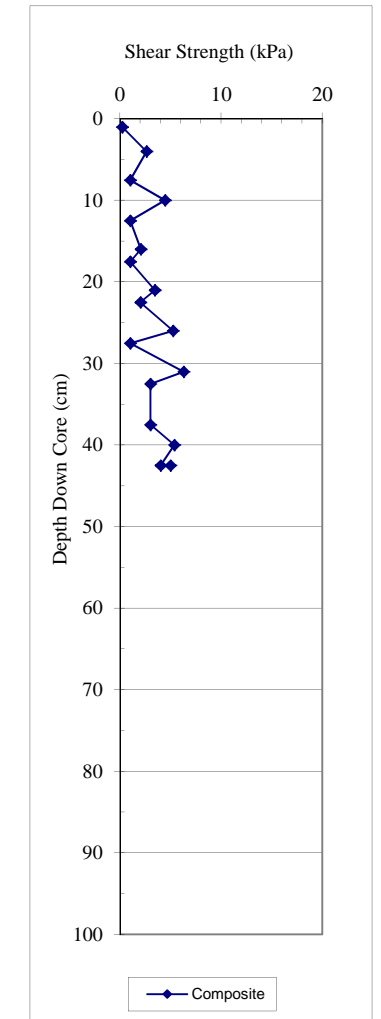
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.20
42	3.72

Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
12.5	1.00
17.5	1.00
22.5	2.00
27.5	1.00
32.5	3.00
37.5	3.00
42.5	4.00
42.5	5.00

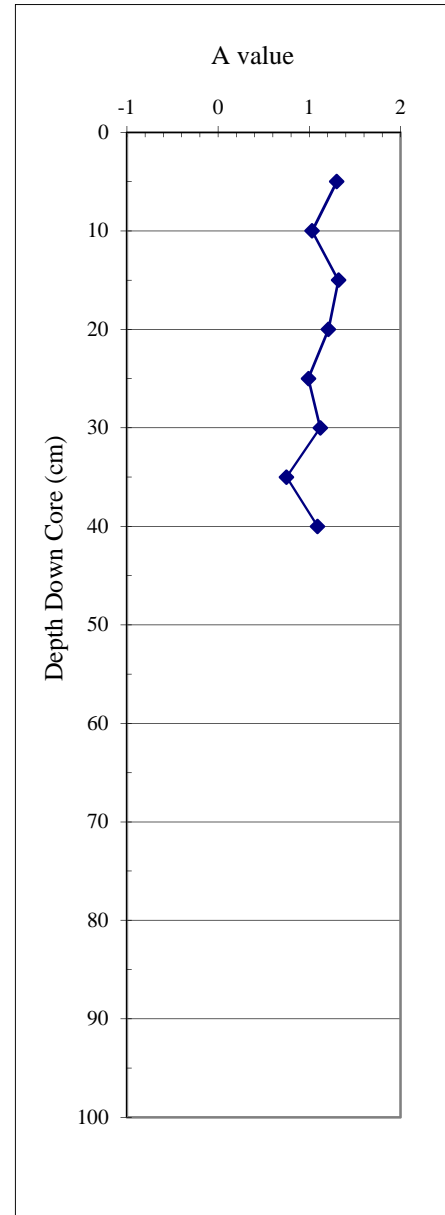
Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	0.20	
4	2.63	3.31
7.5	1.00	
10	4.46	
12.5	1.00	
16	2.06	1.83
17.5	1.00	
21	3.43	
22.5	2.00	
26	5.25	2.63
27.5	1.00	
31	6.28	
32.5	3.00	
37.5	3.00	
40	5.37	1.37
42.5	4.00	
42.5	5.00	



Cruise No: 2007802
 Station: 19
 Sample Type: Push Core
 Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.3	5.3	38.79	4.4 Y 3.7/7
10	1.03	4.52	40.65	4.4 Y 3.9/6
15	1.32	5.17	39.56	4.2 Y 3.8/7
20	1.21	4.98	39.41	4.4 Y 3.8/7
25	0.99	4.56	39.34	4.8 Y 3.8/6
30	1.12	4.96	39.47	4.6 Y 3.8/7
35	0.75	3.2	41.05	4.4 Y 4.0/4
40	1.09	4.3	41.86	4.0 Y 4.0/6



0.61 2.98

Cruise No: 2007802

Station: 19

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1425.57
3	1454.00
4	1483.93
5	1497.16
6	1496.78
7	1495.41
8	1492.41
9	1493.60
10	1493.00
11	1492.85
12	1496.08
13	1494.95
14	1491.57
15	1491.57
16	1493.82
17	1490.45
18	1492.70
19	1496.08
20	1497.21
21	1499.47
22	1498.49
23	1497.36
24	1504.48
25	1512.97
26	1513.12
27	1510.97
28	1514.58
29	1514.58
30	1515.89
31	1515.89
32	1515.89
33	1515.89
34	1513.58
35	1513.58
36	1513.43
37	1511.12
38	1510.36
39	1513.60
40	1505.85
41	1510.92
42	1514.13

Cruise No: 2007802

Station: 19

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)
7	1459.05	
17	1459.05	
27	1484.49	
36	1478.76	

Cruise No: 2007802

Station: 20

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

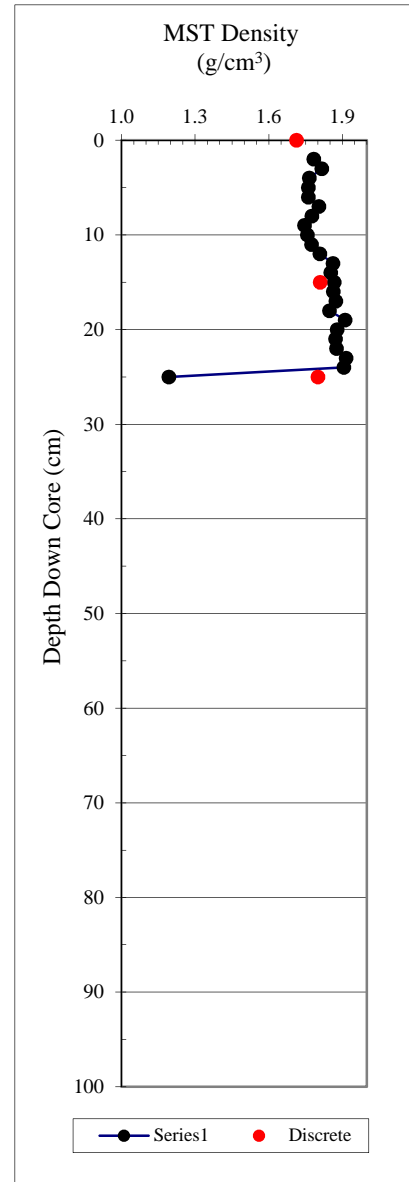
Station: 20

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.784
3	1.816
4	1.765
5	1.762
6	1.761
7	1.805
8	1.777
9	1.746
10	1.757
11	1.775
12	1.809
13	1.863
14	1.853
15	1.868
16	1.864
17	1.874
18	1.848
19	1.912
20	1.879
21	1.872
22	1.877
23	1.915
24	1.906
25	1.194



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.714	1.131	56.953	2.627	1.323	34.025	51.574
15	1.810	1.229	56.757	2.841	1.313	32.116	47.310
** 25	1.802	1.257	53.198	2.685	1.137	30.239	43.346

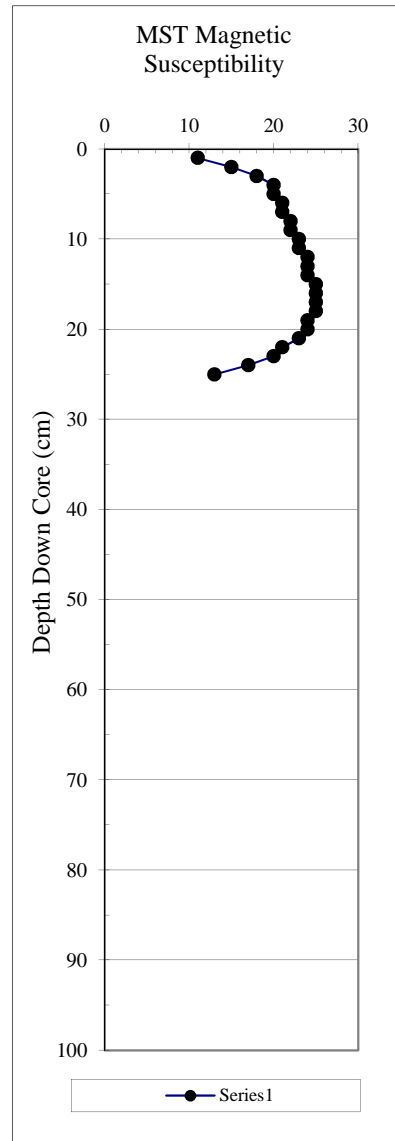
Cruise No: 2007802

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	11.00
2	15.00
3	18.00
4	20.00
5	20.00
6	21.00
7	21.00
8	22.00
9	22.00
10	23.00
11	23.00
12	24.00
13	24.00
14	24.00
15	25.00
16	25.00
17	25.00
18	25.00
19	24.00
20	24.00
21	23.00
22	21.00
23	20.00
24	17.00
25	13.00



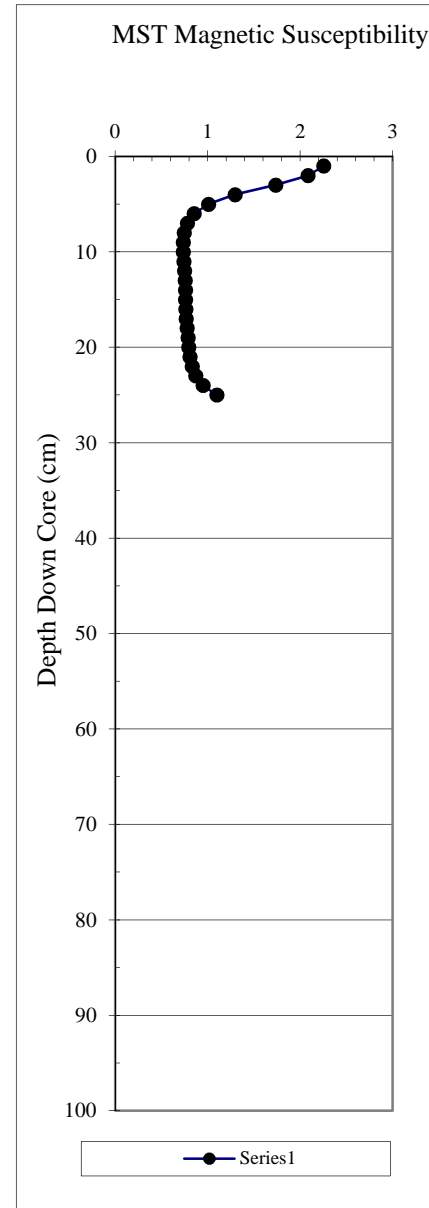
Cruise No: 2007802

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.255
2	2.084
3	1.737
4	1.295
5	1.007
6	0.855
7	0.781
8	0.747
9	0.737
10	0.737
11	0.744
12	0.751
13	0.757
14	0.759
15	0.761
16	0.764
17	0.768
18	0.777
19	0.787
20	0.796
21	0.809
22	0.831
23	0.872
24	0.950
25	1.098



Cruise No: 2007802

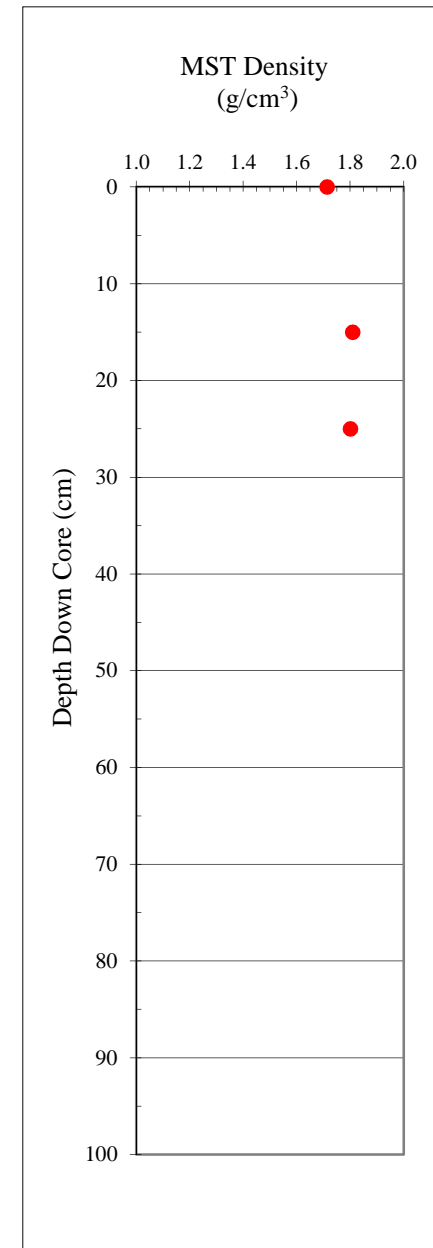
Station: 20

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

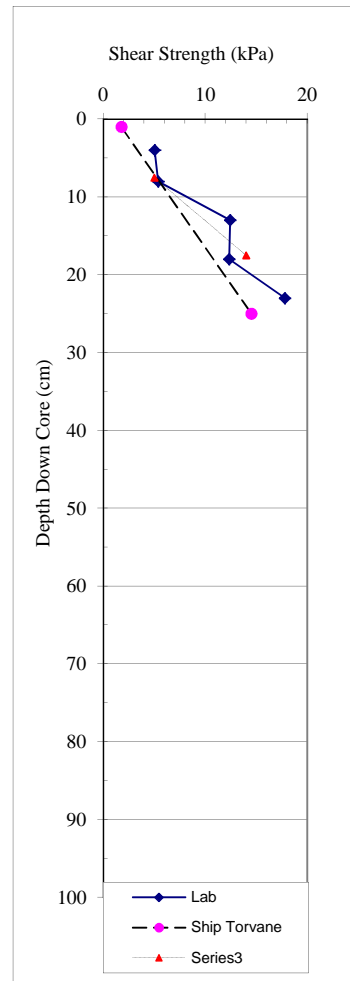
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.714	1.131	56.953	2.627	1.323	34.025	51.574
15	1.810	1.229	56.757	2.841	1.313	32.116	47.310
** 25	1.802	1.257	53.198	2.685	1.137	30.239	43.346



Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	5.03	1.26	3.99
8	5.37		
13	12.45	1.26	9.88
18	12.34		
23	17.82	3.43	5.20



Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Shipboard Torvane

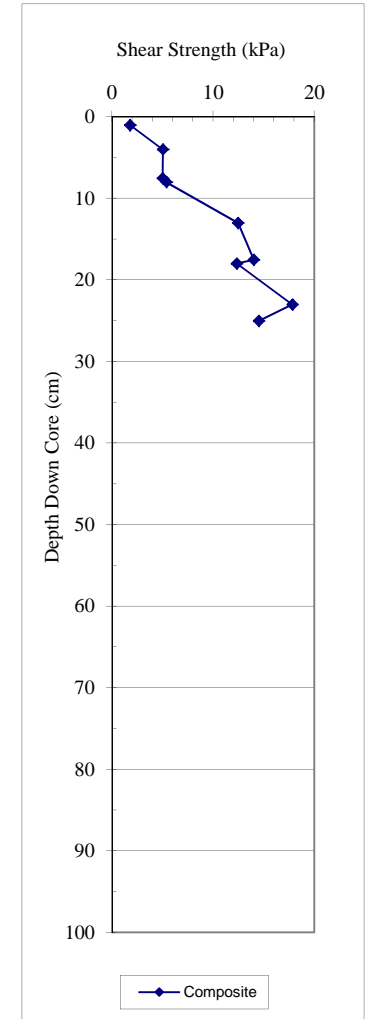
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	1.77
25	14.50

Cruise No: 2007802
 Station: 20
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	5.00
17.5	14.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	1.77	
4	5.03	1.26
7.5	5.00	
8	5.37	
13	12.45	1.26
17.5	14.00	
18	12.34	
23	17.82	3.43
25	14.50	



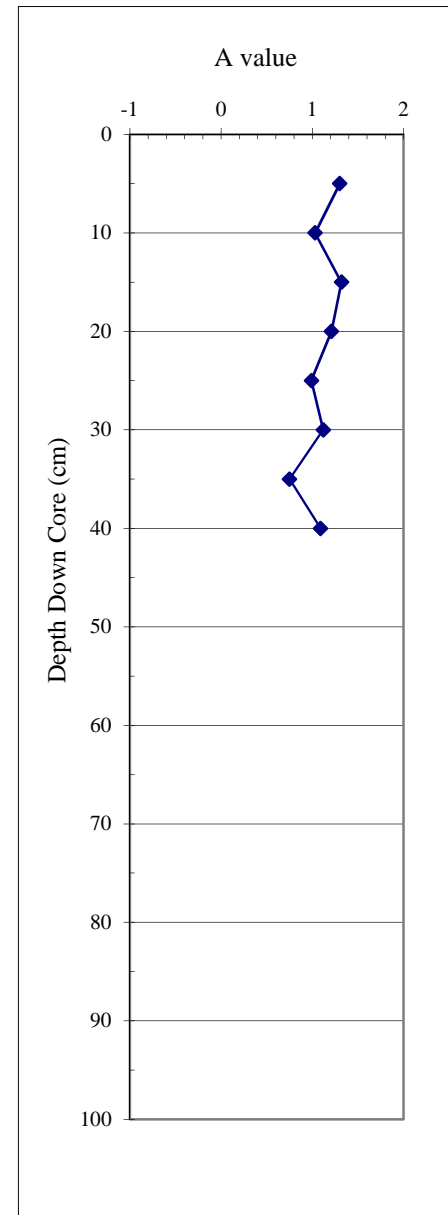
Cruise No: 2007802

Station: 20

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.3	5.3	38.79	4.4 Y 3.7/7
10	1.03	4.52	40.65	4.4 Y 3.9/6
15	1.32	5.17	39.56	4.2 Y 3.8/7
20	1.21	4.98	39.41	4.4 Y 3.8/7
25	0.99	4.56	39.34	4.8 Y 3.8/6
30	1.12	4.96	39.47	4.6 Y 3.8/7
35	0.75	3.2	41.05	4.4 Y 4.0/4
40	1.09	4.3	41.86	4.0 Y 4.0/6



0.61

2.98

Cruise No: 2007802

Station: 20

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1520.98
3	1526.98
4	1509.11
5	1515.23
6	1505.99
7	1506.18
8	1505.87
9	1505.95
10	1503.74
11	1505.42
12	1519.34
13	1526.40
14	1530.11
15	1535.03
16	1534.30
17	1535.65
18	1535.80
19	1537.00
20	1536.27
21	1535.23
22	1537.62
23	1540.02
24	1546.44
25	1554.09

Cruise No: 2007802

Station: 20

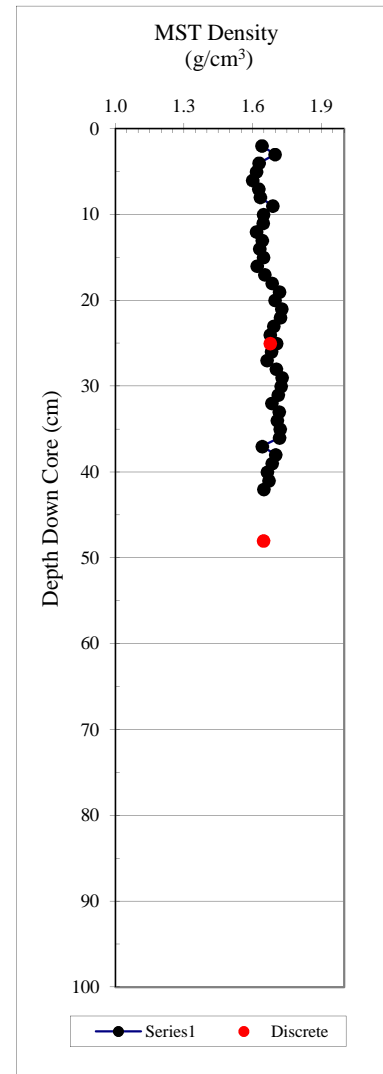
Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
7	1478.76		10.26
17	1516.81		10.63

Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.640
3	1.698
4	1.628
5	1.616
6	1.600
7	1.625
8	1.633
9	1.688
10	1.646
11	1.646
12	1.617
13	1.641
14	1.630
15	1.647
16	1.619
17	1.652
18	1.685
19	1.717
20	1.697
21	1.726
22	1.722
23	1.691
24	1.676
25	1.704
26	1.683
27	1.662
28	1.703
29	1.728
30	1.724
31	1.711
32	1.683
33	1.716
34	1.708
35	1.719
36	1.717
37	1.641
38	1.701
39	1.685
40	1.663
41	1.671
42	1.648
43	1.688
44	1.679
45	1.706
46	1.722
47	1.713
48	1.684



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 25	1.676	1.010	65.058	2.891	1.862	39.740	65.949
** 48	1.647	1.017	61.496	2.641	1.597	38.240	61.918

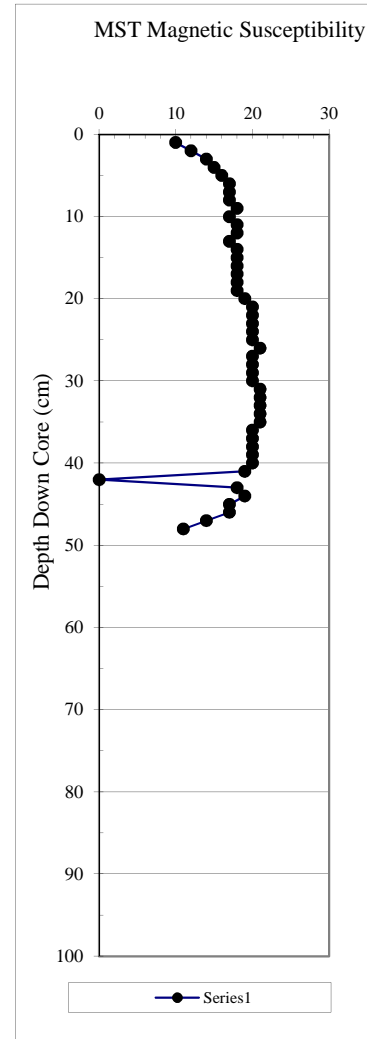
Cruise No: 2007802

Station: 21

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	10.00
2	12.00
3	14.00
4	15.00
5	16.00
6	17.00
7	17.00
8	17.00
9	18.00
10	17.00
11	18.00
12	18.00
13	17.00
14	18.00
15	18.00
16	18.00
17	18.00
18	18.00
19	18.00
20	19.00
21	20.00
22	20.00
23	20.00
24	20.00
25	20.00
26	21.00
27	20.00
28	20.00
29	20.00
30	20.00
31	21.00
32	21.00
33	21.00
34	21.00
35	21.00
36	20.00
37	20.00
38	20.00
39	20.00
40	20.00
41	19.00
42	0.00
43	18.00
44	19.00
45	17.00
46	17.00
47	14.00
48	11.00



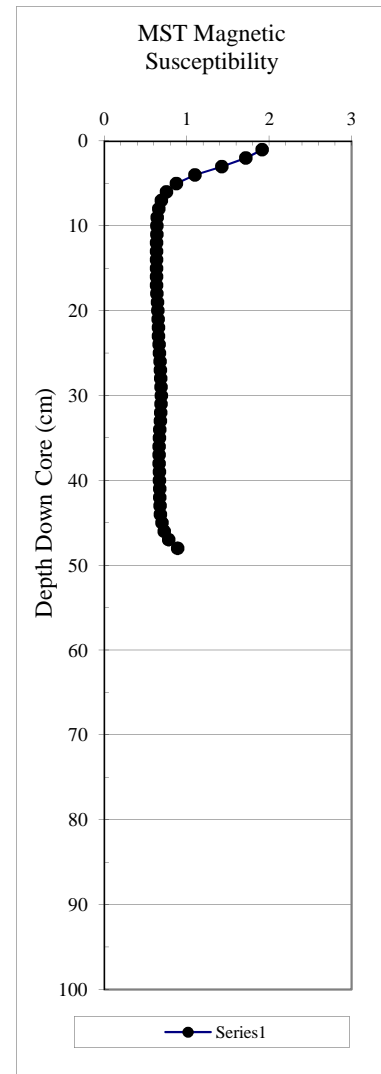
Cruise No: 2007802

Station: 21

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.916
2	1.715
3	1.424
4	1.098
5	0.874
6	0.755
7	0.692
8	0.659
9	0.643
10	0.637
11	0.636
12	0.635
13	0.634
14	0.634
15	0.633
16	0.634
17	0.635
18	0.638
19	0.644
20	0.648
21	0.652
22	0.655
23	0.658
24	0.664
25	0.669
26	0.675
27	0.679
28	0.684
29	0.689
30	0.692
31	0.689
32	0.686
33	0.680
34	0.673
35	0.667
36	0.663
37	0.663
38	0.664
39	0.667
40	0.669
41	0.671
42	0.672
43	0.675
44	0.682
45	0.699
46	0.726
47	0.783
48	0.889



Cruise No: 2007802

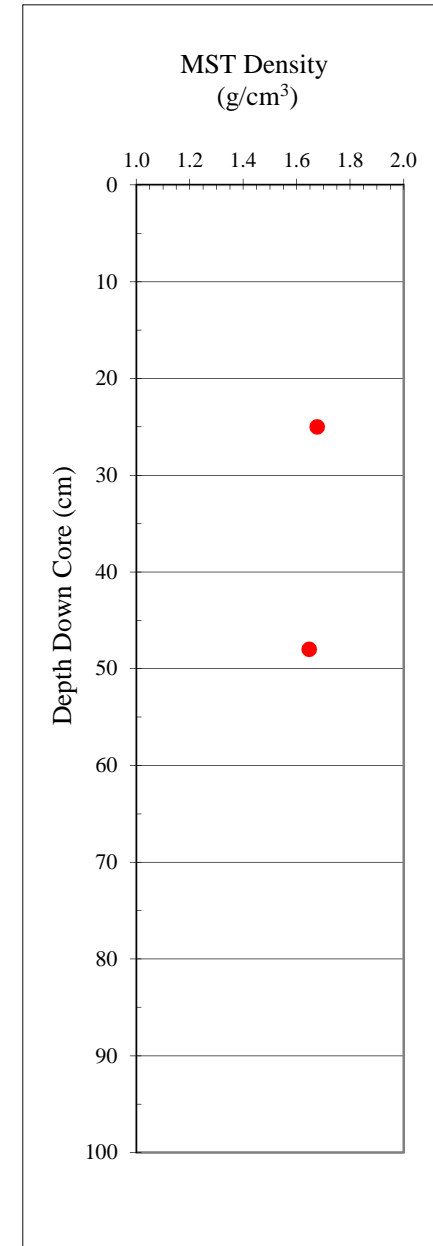
Station: 21

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

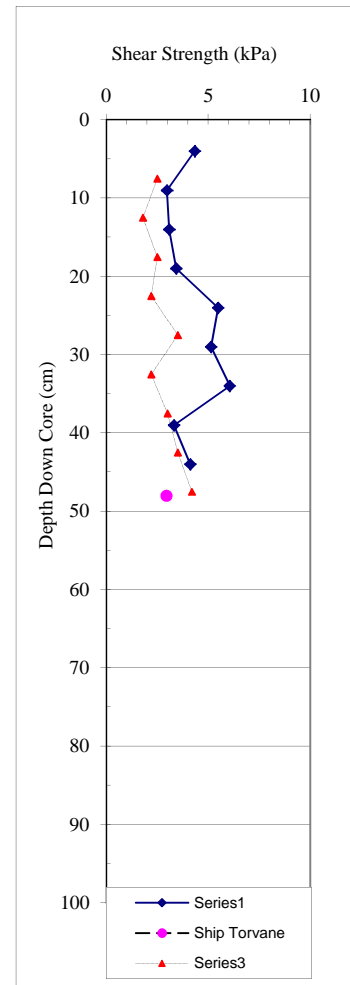
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25	1.676	1.010	65.058	2.891	1.862	39.740	65.949
48	1.647	1.017	61.496	2.641	1.597	38.240	61.918



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	4.34	3.54	1.23
9	2.97		3.86
14	3.08	0.80	
19	3.43		
24	5.48	3.54	1.55
29	5.14		
34	6.05	1.94	3.12
39	3.31		
44	4.11	2.74	1.50



Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Shipboard Torvane

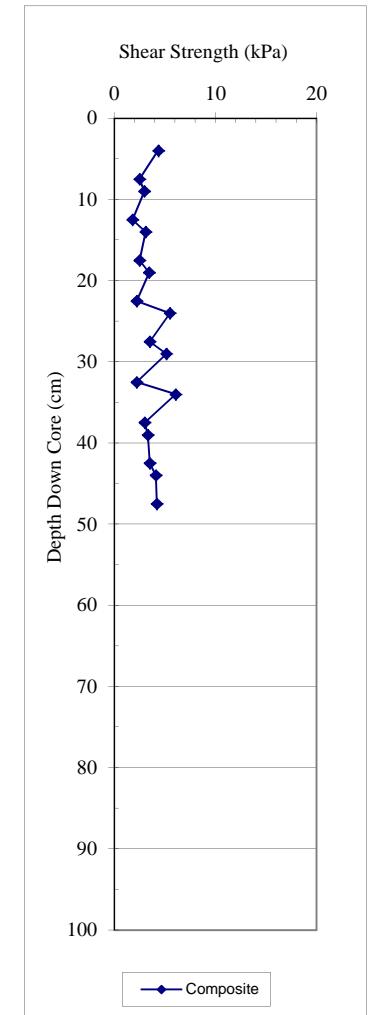
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
48	2.94

Cruise No: 2007802
 Station: 21
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	2.50
12.5	1.80
17.5	2.50
22.5	2.20
27.5	3.50
32.5	2.20
37.5	3.00
42.5	3.50
47.5	4.20

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
4	4.34	3.54
7.5	2.50	
9	2.97	
12.5	1.80	
14	3.08	0.80
17.5	2.50	
19	3.43	
22.5	2.20	
24	5.48	3.54
27.5	3.50	
29	5.14	
32.5	2.20	
34	6.05	1.94
37.5	3.00	
39	3.31	
42.5	3.50	
44	4.11	2.74
47.5	4.20	



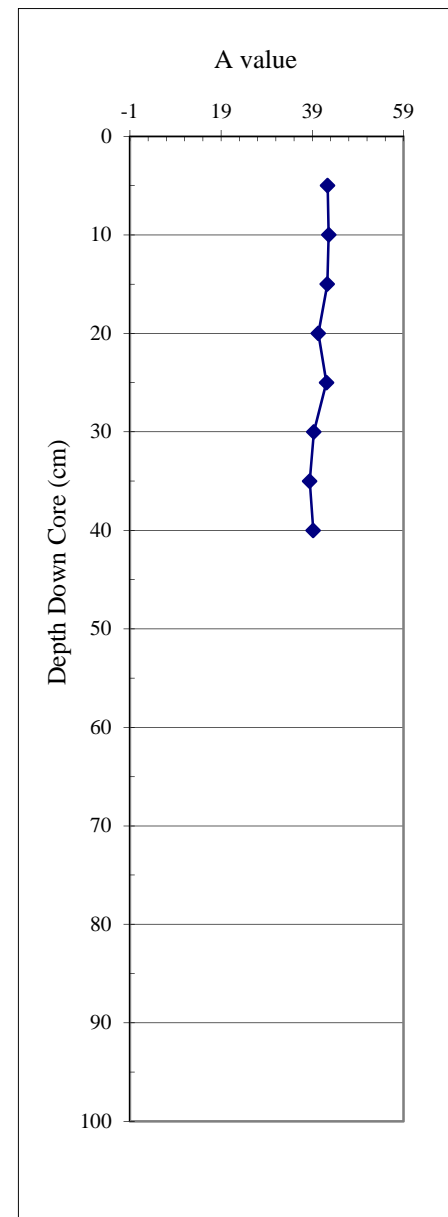
Cruise No: 2007802

Station: 21

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.79	5.63	42.35	3.0 Y 4.1/8
10	0.94	3.6	42.59	4.0 Y 4.1/5
15	1.29	5.34	42.28	4.3 Y 4.1/7
20	1.38	5.45	40.3	4.1 Y 3.9/7
25	0.99	3.83	42.12	3.9 Y 4.1/5
30	1.01	4.58	39.33	4.7 Y 3.8/6
35	1.24	5.05	38.41	4.3 Y 3.7/7
40	1.66	6.07	39.18	3.8 Y 3.8/8
45	1.12	4.63	39.31	4.4 Y 3.8/6



0.61

2.98

Cruise No: 2007802

Station: 21

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1508.55
3	1509.19
4	1493.69
5	1514.51
6	1511.22
7	1510.35
8	1511.87
9	1515.23
10	1511.81
11	1514.23
12	1509.69
13	1508.55
14	1509.69
15	1508.55
16	1501.79
17	1506.29
18	1509.69
19	1514.23
20	1516.52
21	1513.40
22	1513.01
23	1519.87
24	1521.02
25	1521.02
26	1521.02
27	1520.02
28	1521.92
29	1528.15
30	1528.46
31	1515.95
32	1515.12
33	1530.38
34	1528.36
35	1523.04
36	1517.61
37	1514.19
38	1513.06
39	1512.91
40	1510.49
41	1510.19
42	1510.04
43	1512.31
44	1516.71
45	1515.42
46	1514.36
47	1516.36
48	1525.71

Cruise No: 2007802

Station: 21

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
7	1453.52		6.99
17	1456.28		7.56
27	1467.43		7.96
37	1467.43		8.27

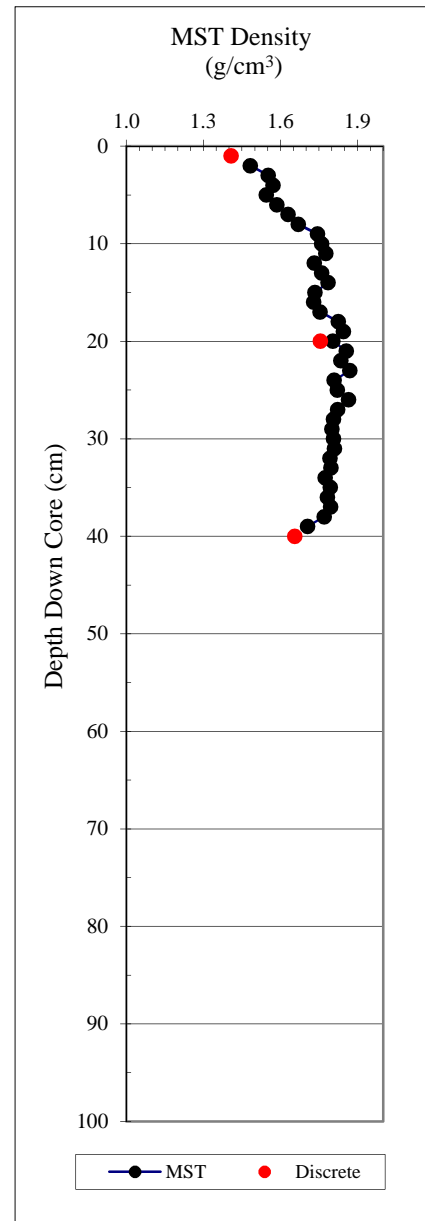
Cruise No: 2007802

Station: 34

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.4823	0.010	0.01
3	1.5528	0.051	0.06
4	1.5707	0.053	0.11
5	1.545	0.053	0.17
6	1.5864	0.055	0.22
7	1.6299	0.059	0.28
8	1.6693	0.064	0.34
9	1.7444	0.069	0.41
10	1.7607	0.072	0.49
11	1.7766	0.072	0.56
12	1.7324	0.071	0.63
13	1.7608	0.072	0.70
14	1.7854	0.073	0.78
15	1.7349	0.071	0.85
16	1.7288	0.070	0.92
17	1.7544	0.073	0.99
18	1.8247	0.077	1.07
19	1.8448	0.079	1.14
20	1.8042	0.079	1.22
21	1.8565	0.080	1.30
22	1.8358	0.081	1.38
23	1.8704	0.081	1.47
24	1.8097	0.079	1.54
25	1.8219	0.079	1.62
26	1.8646	0.080	1.70
27	1.8227	0.079	1.78
28	1.8067	0.077	1.86
29	1.8004	0.076	1.94
30	1.8068	0.077	2.01
31	1.81	0.077	2.09
32	1.7925	0.076	2.17
33	1.7969	0.075	2.24
34	1.7739	0.075	2.32
35	1.7936	0.075	2.39
36	1.7829	0.075	2.46
37	1.796	0.075	2.54
38	1.7704	0.072	2.61
39	1.7056	0.363	2.97



Cruise No: 2007802

Station: 34

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.41	0.63	76.36	2.64	3.12	55.57	125.07
20	1.76	1.14	60.20	2.86	1.51	35.11	54.11
** 40	1.66	1.05	58.84	2.56	1.43	36.39	57.21

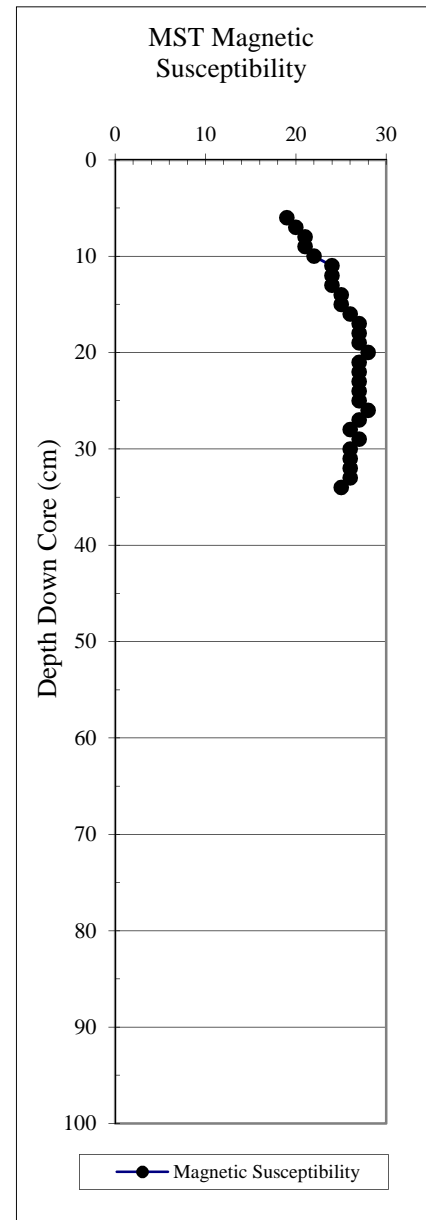
Cruise No: 2007802

Station: 34

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
6	19
7	20
8	21
9	21
10	22
11	24
12	24
13	24
14	25
15	25
16	26
17	27
18	27
19	27
20	28
21	27
22	27
23	27
24	27
25	27
26	28
27	27
28	26
29	27
30	26
31	26
32	26
33	26
34	25



Cruise No: 2007802

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	
2	1.599
3	1.314
4	1.035
5	0.834
6	0.723
7	0.669
8	0.647
9	0.643
10	0.650
11	0.662
12	0.673
13	0.682
14	0.690
15	0.696
16	0.701
17	0.707
18	0.711
19	0.716
20	0.721
21	0.725
22	0.726
23	0.726
24	0.726
25	0.728
26	0.730
27	0.730
28	0.728
29	0.725
30	0.721
31	0.720
32	0.718
33	0.718
34	0.723
35	0.737
36	0.762
37	0.807
38	0.886
39	1.021

Cruise No: 2007802

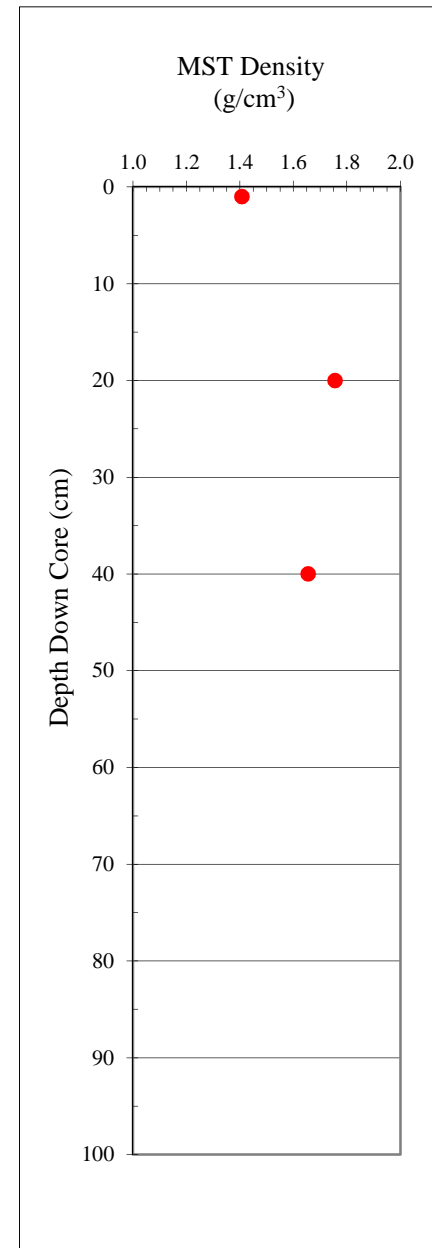
Station: 34

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

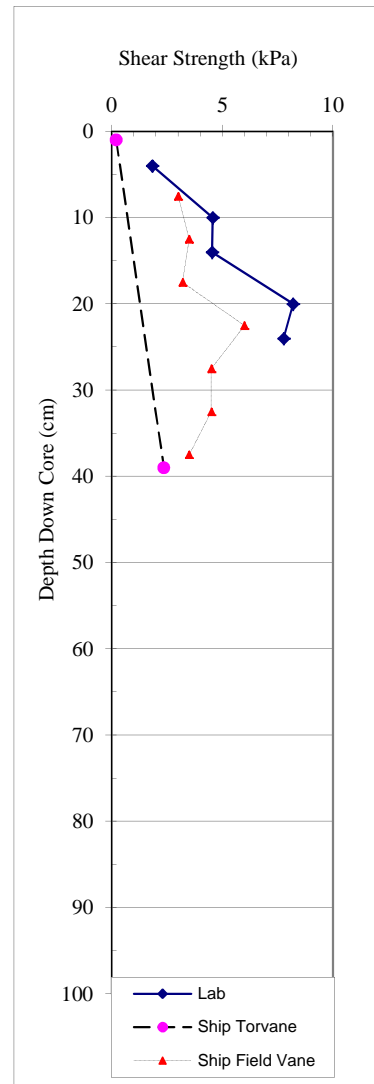
Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.41	0.63	76.36	2.64	3.12	55.57	125.07
20	1.76	1.14	60.20	2.86	1.51	35.11	54.11
** 40	1.66	1.05	58.84	2.56	1.43	36.39	57.21
averages:	1.61	0.94	65.13	2.69	2.02	42.36	78.79



Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	1.83		
10	4.57	1.94	2.35
14	4.54		
20	8.20	1.11	7.40
24	7.77		
28	7.88	5.14	1.53
34	3.88		
38	5.32	3.54	1.50

Disturbed Uneven Surface



Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Shipboard Torvane

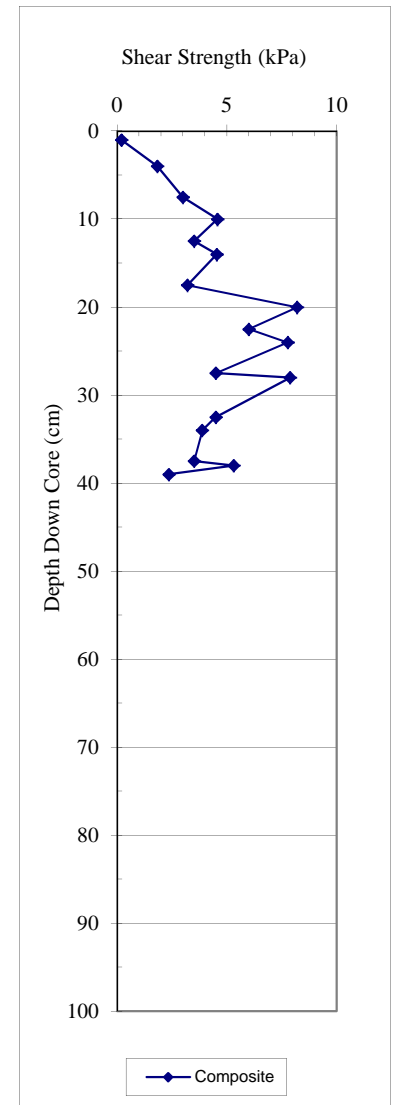
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
39.0	2.35

Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.00
12.5	3.50
17.5	3.20
22.5	6.00
27.5	4.50
32.5	4.50
37.5	3.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
4	1.83	
7.5	3.00	
10	4.57	1.94
12.5	3.50	
14	4.54	
17.5	3.20	
20	8.20	1.11
22.5	6.00	
24	7.77	
27.5	4.50	
28	7.88	5.14
32.5	4.50	
34	3.88	
37.5	3.50	
38	5.32	3.54
39.0	2.35	



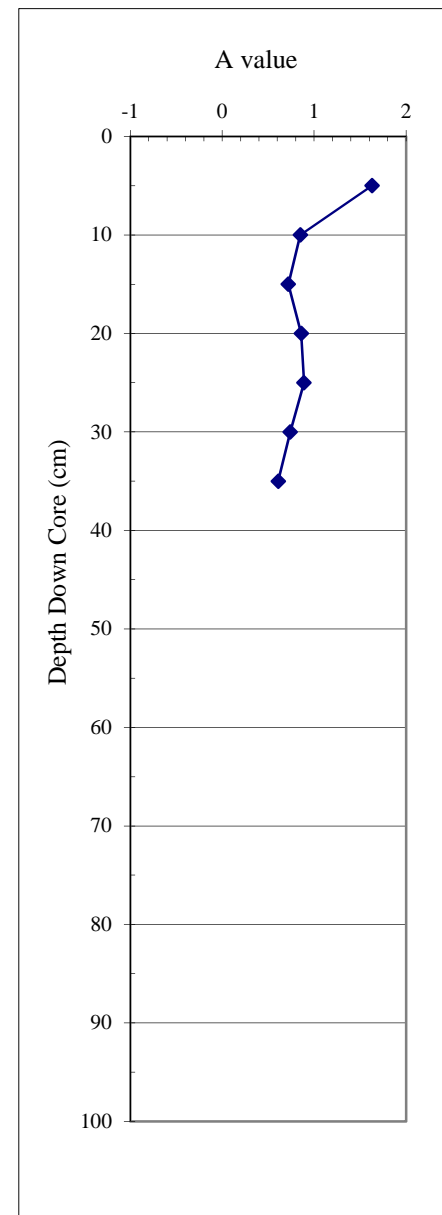
Cruise No: 2003801

Station: 34

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.63	6.07	38.52	4.1 Y 3.7/.8
10	0.85	4.07	40.27	4.9 Y 3.9/.6
15	0.72	3.64	41.5	4.9 Y 4.0/.5
20	0.86	4.45	38.8	5.2 Y 3.7/.6
25	0.89	4.54	38.84	5.3 Y 3.8/.6
30	0.74	4.02	39.67	5.5 Y 3.8/.6
35	0.61	2.98	45.09	4.8 Y 4.4/.4



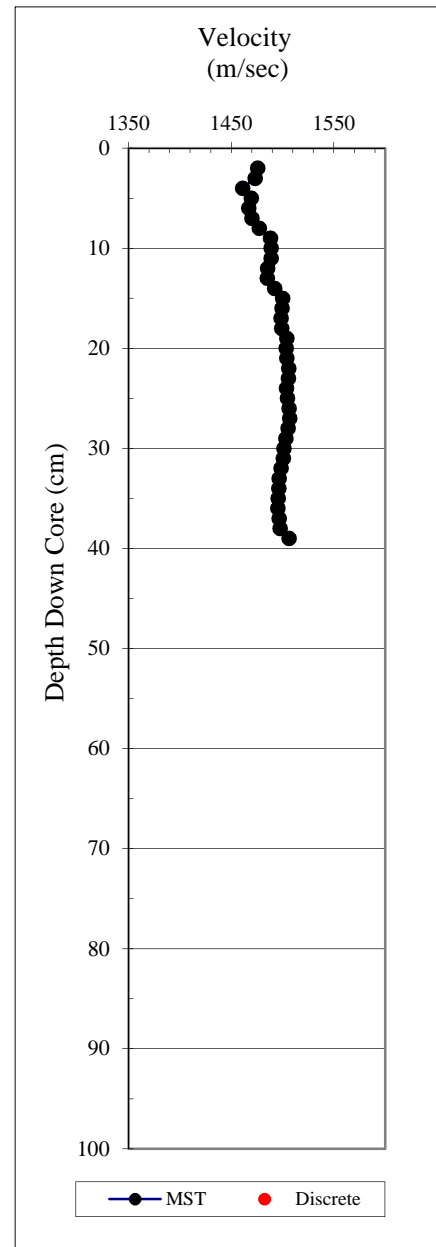
Cruise No: 2007802

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.702
3	1473.245
4	1461.311
5	1469.577
6	1467.136
7	1470.154
8	1477.345
9	1488.319
10	1488.998
11	1488.845
12	1485.592
13	1485.07
14	1492.348
15	1500
16	1499.616
17	1498.543
18	1499.156
19	1504.078
20	1503.69
21	1504.305
22	1506.078
23	1505.689
24	1503.991
25	1504.759
26	1506.376
27	1506.99
28	1505.292
29	1503.293
30	1501.453
31	1500.611
32	1498.627
33	1496.801
34	1496.27
35	1495.668
36	1495.364
37	1496.575
38	1497.511
39	1506.421



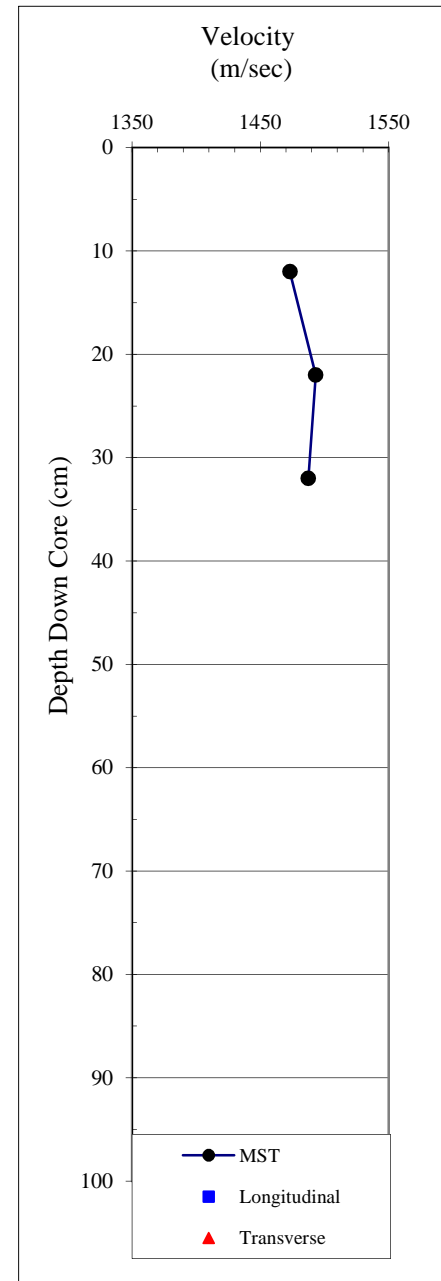
Cruise No: 2007802

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	MST Bulk	Discrete Longitudinal	Discrete Transverse	Temperature (C)
	Velocity (m/sec)	Velocity (m/s)	Velocity (m/s)	
12	1473.08			7.81
22	1493.17			8.29
32	1487.37			8.73



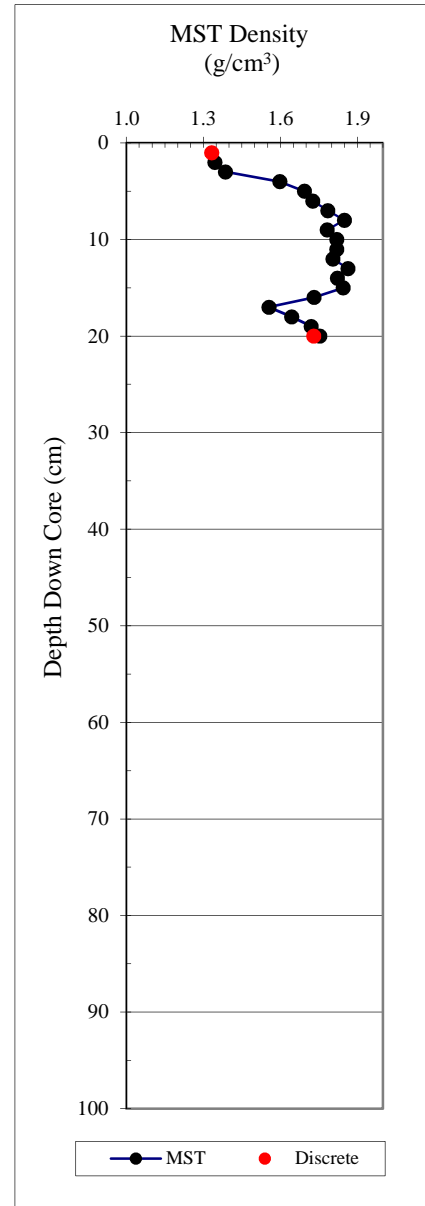
Cruise No: 2007802

Station: 35

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.3441	-0.001	0.00
3	1.3849	0.040	0.04
4	1.5971	0.053	0.09
5	1.6929	0.064	0.16
6	1.7258	0.069	0.23
7	1.7842	0.075	0.30
8	1.8491	0.078	0.38
9	1.7821	0.077	0.46
10	1.8187	0.077	0.53
11	1.8189	0.078	0.61
12	1.8035	0.078	0.69
13	1.8622	0.080	0.77
14	1.8212	0.080	0.85
15	1.8444	0.077	0.92
16	1.7301	0.068	0.99
17	1.5543	0.059	1.05
18	1.6431	0.060	1.11
19	1.7196	0.067	1.18
20	1.7526	0.180	1.36



Cruise No: 2007802

Station: 35

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.331274	0.5908174	72.31021	2.133701	2.611439	55.62015	125.3275
** 20	1.729037	1.170151	54.57868	2.576215	1.201609	32.32353	47.76184

average 1.712

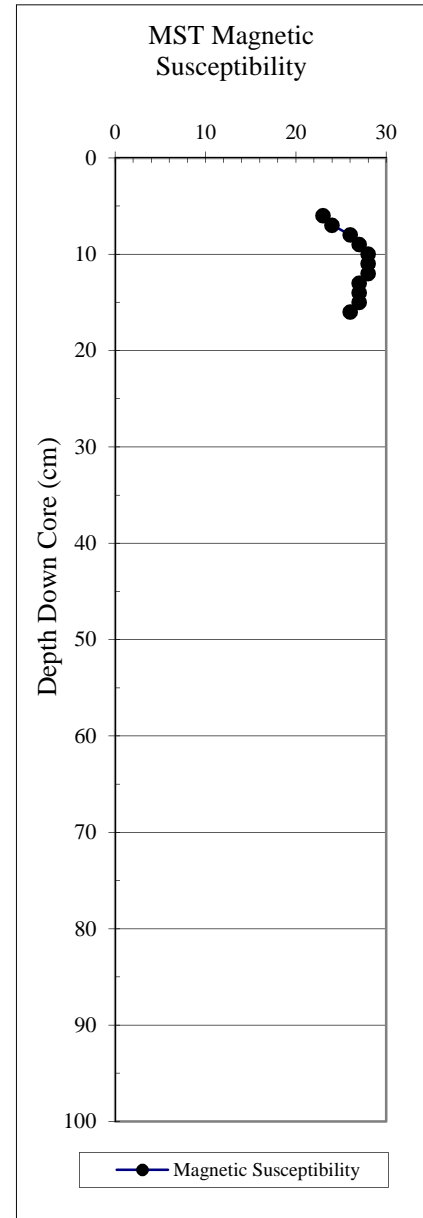
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
6	23
7	24
8	26
9	27
10	28
11	28
12	28
13	27
14	27
15	27
16	26



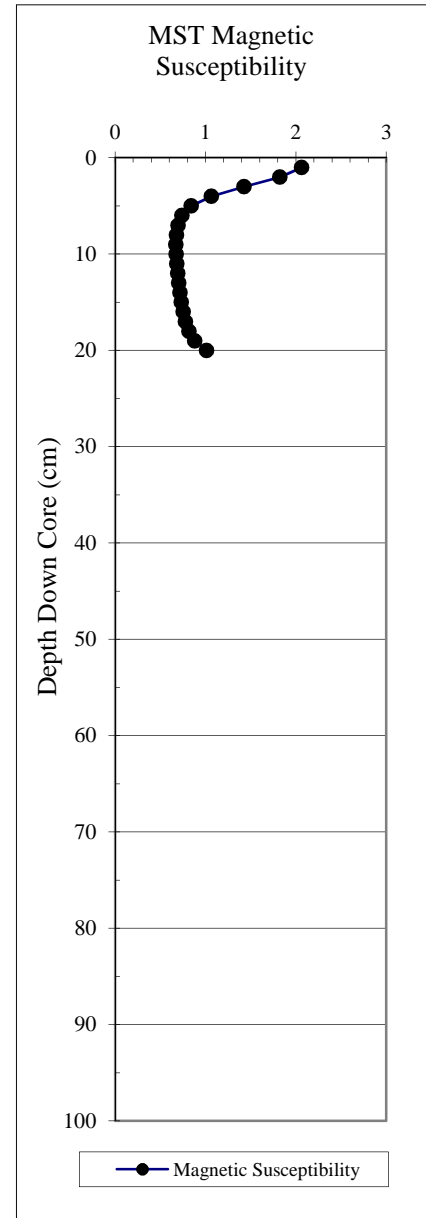
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.064
2	1.824
3	1.426
4	1.065
5	0.842
6	0.739
7	0.696
8	0.677
9	0.671
10	0.676
11	0.684
12	0.694
13	0.704
14	0.717
15	0.733
16	0.753
17	0.778
18	0.816
19	0.881
20	1.010



Cruise No: 2007802

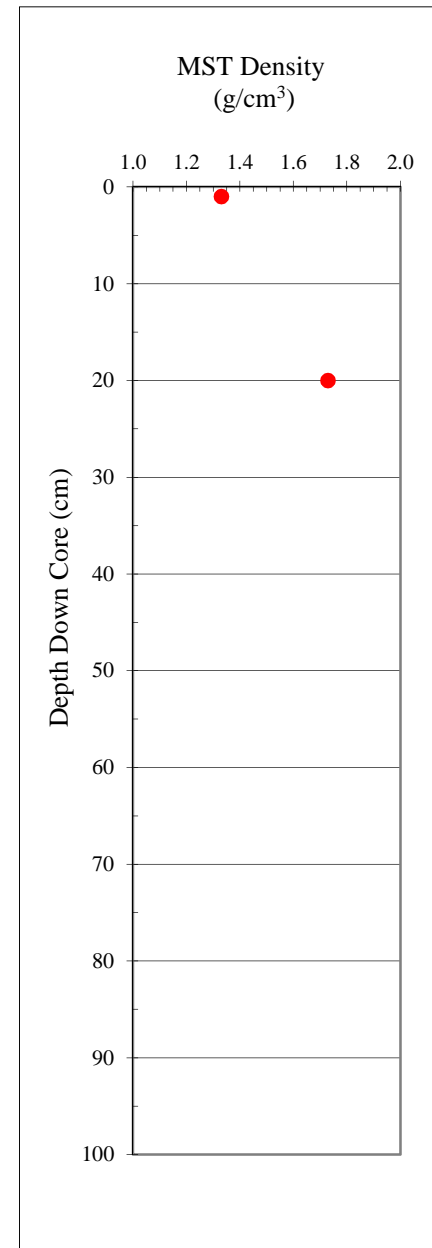
Station: 35

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

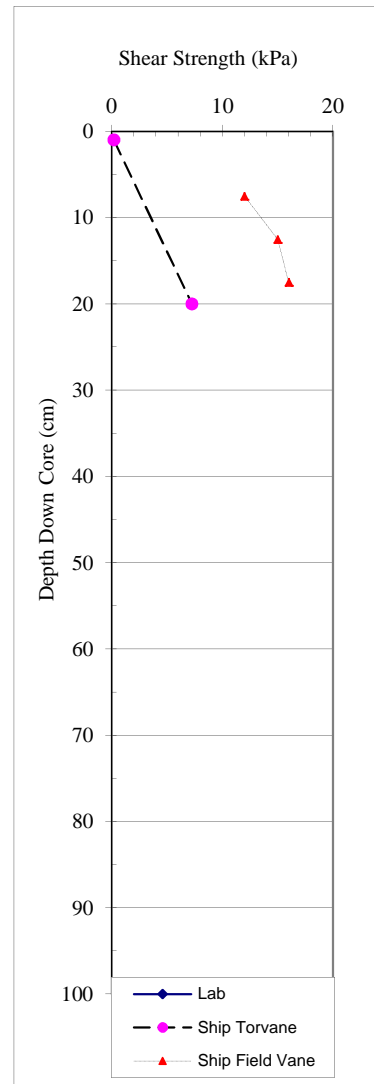
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.00	1.33	0.59	72.31	2.13	2.61	55.62	125.33
** 20.00	1.73	1.17	54.58	2.58	1.20	32.32	47.76



Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u>	<u>Remoulded</u>	
	<u>Undrained</u>	<u>Undrained</u>	
<u>Depth Down</u>	<u>Shear</u>	<u>Shear</u>	<u>Sensitivity</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>	
NA			



Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Shipboard Torvane

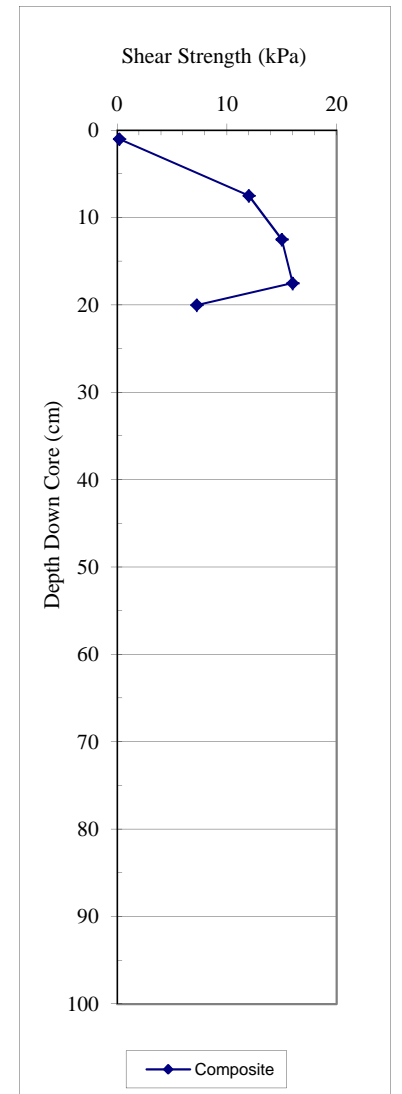
	<u>Undrained</u>
	<u>Shear</u>
<u>Depth</u>	<u>Down</u>
<u>Core (cm)</u>	<u>(kPa)</u>
1.0	0.20
20.0	7.26

Cruise No: 2007802
 Station: 35
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u>
	<u>Undrained</u>
<u>Depth</u>	<u>Down</u>
<u>Core (cm)</u>	<u>Shear Shear</u>
	<u>(kPa)</u>
7.5	12.00
12.5	15.00
17.5	16.00

Composite

	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u>	<u>Undrained</u>
<u>Depth</u>	<u>Down</u>	<u>Down</u>
<u>Core (cm)</u>	<u>Shear Shear</u>	<u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
1.0	0.20	
7.5	12.00	
12.5	15.00	
17.5	16.00	
20.0	7.26	



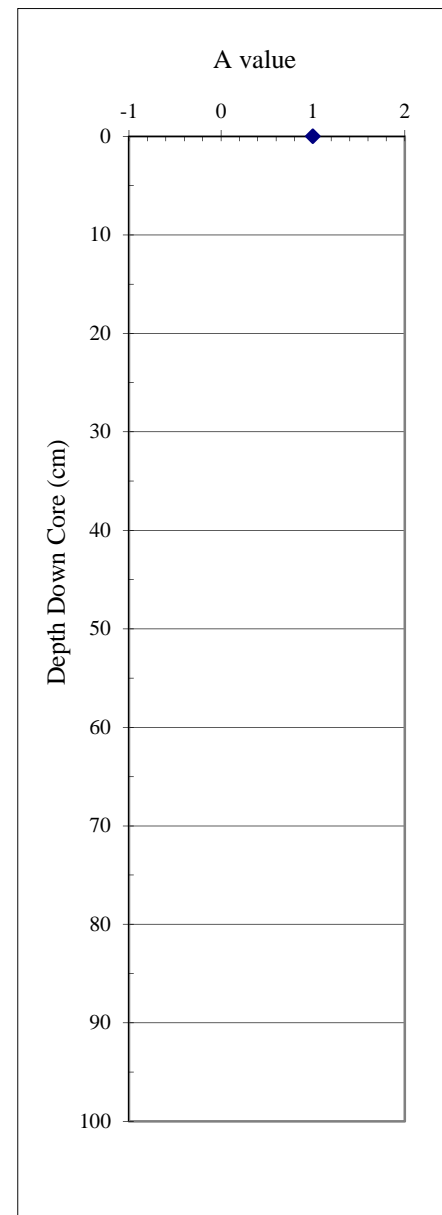
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
NA	NA	NA	NA



Cruise No: 2007802

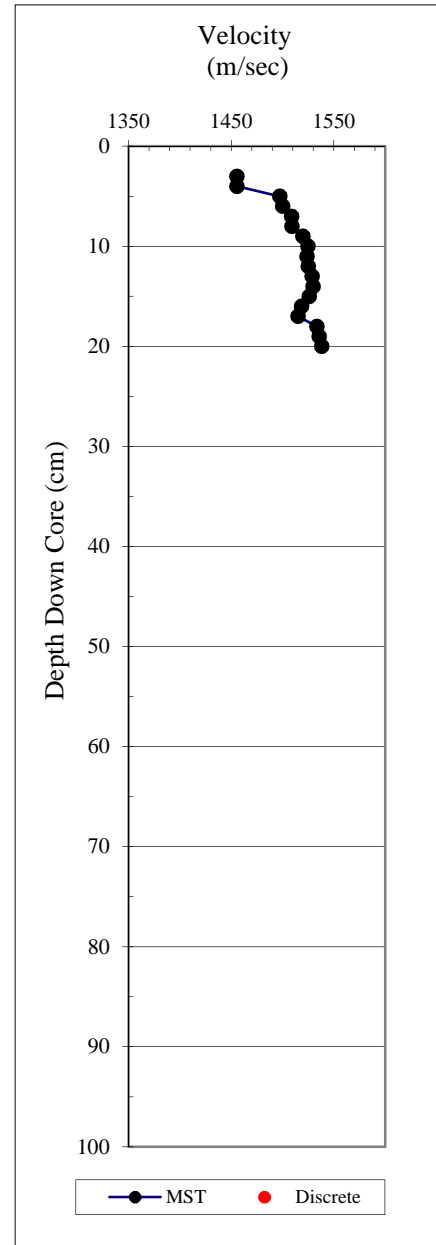
Station: 35

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

3	1455.547
4	1455.402
5	1497.317
6	1500
7	1508.735
8	1509.036
9	1519.879
10	1524.905
11	1523.744
12	1525.209
13	1528.855
14	1529.87
15	1525.915
16	1518.513
17	1515.068
18	1533.385
19	1535.622
20	1538.063



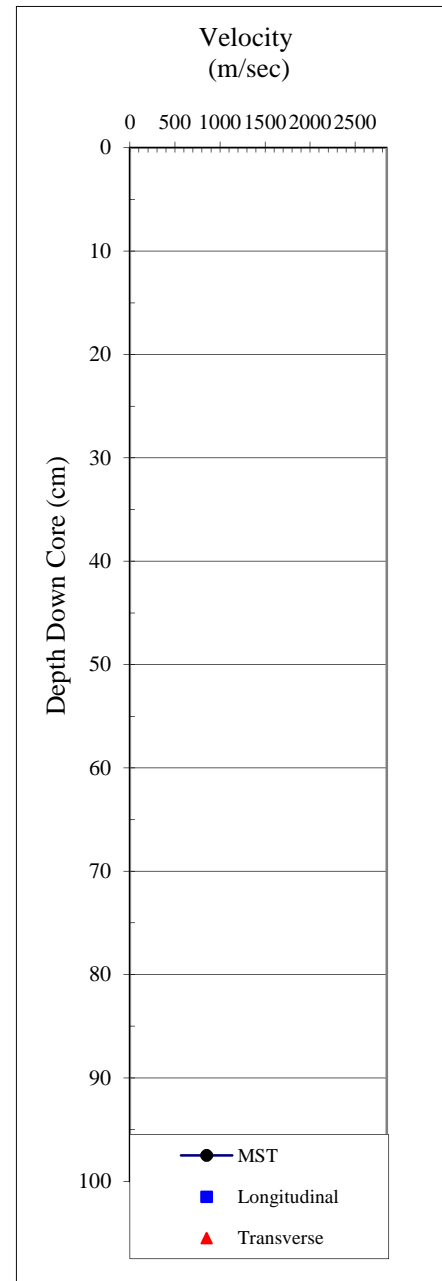
Cruise No: 2007802

Station: 35

Sample Type: **Push Core**

Data Type: Laboratory Discrete

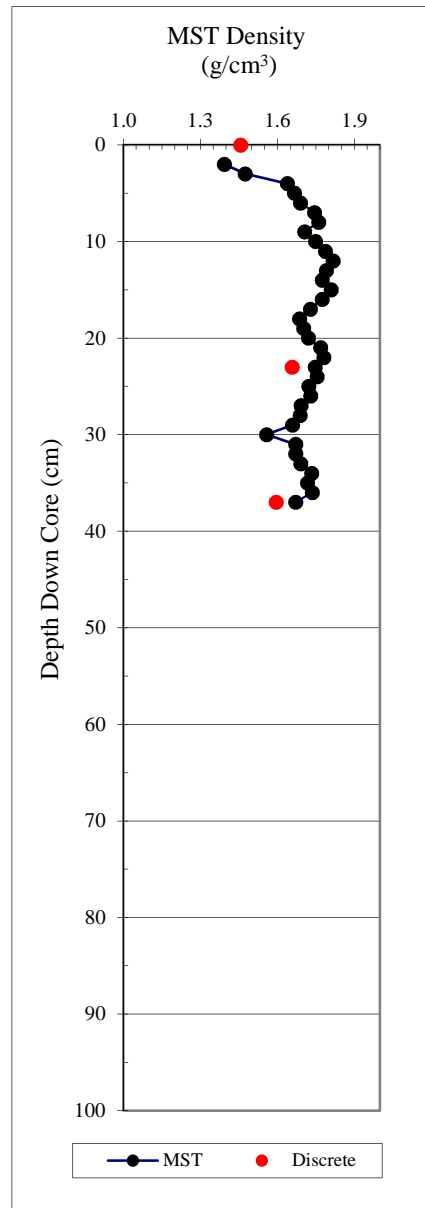
Depth (cm)	MST Bulk Velocity (m/sec)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)
NA			



Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
			0.00
2	1.3924	-0.012	-0.01
3	1.4742	0.046	0.03
4	1.6379	0.057	0.09
5	1.6658	0.063	0.15
6	1.6894	0.066	0.22
7	1.7447	0.070	0.29
8	1.7602	0.070	0.36
9	1.7052	0.069	0.43
10	1.748	0.071	0.50
11	1.7865	0.075	0.57
12	1.8171	0.076	0.65
13	1.7899	0.075	0.73
14	1.774	0.075	0.80
15	1.8093	0.075	0.88
16	1.7735	0.073	0.95
17	1.7275	0.069	1.02
18	1.6856	0.066	1.09
19	1.7015	0.067	1.15
20	1.7204	0.069	1.22
21	1.7676	0.072	1.29
22	1.7806	0.073	1.37
23	1.7463	0.072	1.44
24	1.7545	0.071	1.51
25	1.7217	0.069	1.58
26	1.7289	0.068	1.65
27	1.6921	0.066	1.71
28	1.6883	0.065	1.78
29	1.6586	0.061	1.84
30	1.5577	0.058	1.90
31	1.6701	0.061	1.96
32	1.6711	0.064	2.02
33	1.6905	0.066	2.09
34	1.7336	0.068	2.15
35	1.7173	0.069	2.22
36	1.7352	0.068	2.29
37	1.6706	0.376	2.67



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.46	0.72	72.00	2.57	2.57	50.62	102.49
23.00	1.66	0.99	65.04	2.84	1.86	40.18	67.17
** 37.00	1.59	0.94	64.32	2.62	1.80	41.32	70.40

average 1.705

Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	14
6	15
7	17
8	17
9	18
10	18
11	18
12	19
13	19
14	19
15	19
16	19
17	19
18	18
19	18
20	19
21	19
22	19
23	19
24	19
25	18
26	18
27	17
28	17
29	17
30	17
31	17
32	16

Cruise No: 2007802

Station: 36

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.064
2	1.853
3	1.455
4	1.071
5	0.839
6	0.725
7	0.674
8	0.656
9	0.653
10	0.656
11	0.661
12	0.667
13	0.671
14	0.673
15	0.673
16	0.671
17	0.668
18	0.664
19	0.659
20	0.655
21	0.651
22	0.645
23	0.641
24	0.640
25	0.640
26	0.641
27	0.644
28	0.653
29	0.670
30	0.691
31	0.715
32	0.743
33	0.758
34	0.760
35	0.762
36	0.788
37	0.871

Cruise No: 2007802

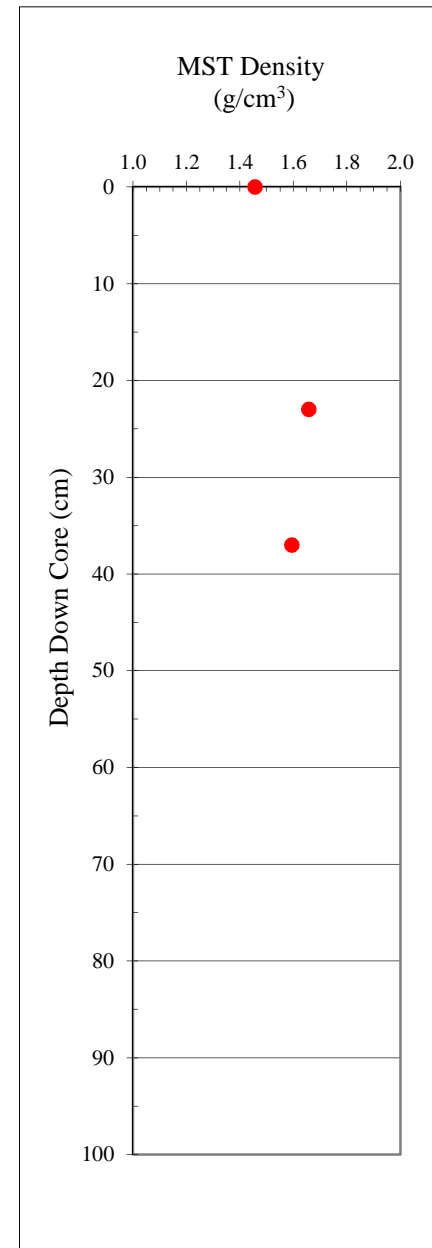
Station: 36

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

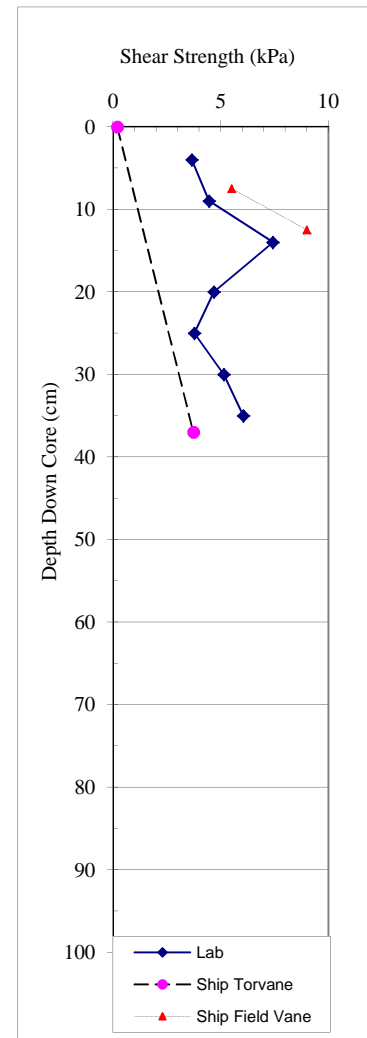
** Shipboard

Depth Down	Bulk Density	Dry Density	Grain Density	Water Con Wet	Water Con Dry
Core (cm)	(g/cm ³)	(g/cm ³)	(g/cm ³)	(%)	(%)
** 0	1.457	0.719	2.570	50.616	102.495
23	1.658	0.992	2.836	40.182	67.174
** 37	1.594	0.936	2.622	41.316	70.403



Cruise No: 2003801
 Station: 36
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>	<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
4	3.66	2.51	1.45
9	4.46		
14	7.43	2.06	3.61
20	4.68		
25	3.77	2.06	1.83
30	5.14		
35	6.05	0.69	8.83



Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Shipboard Torvane

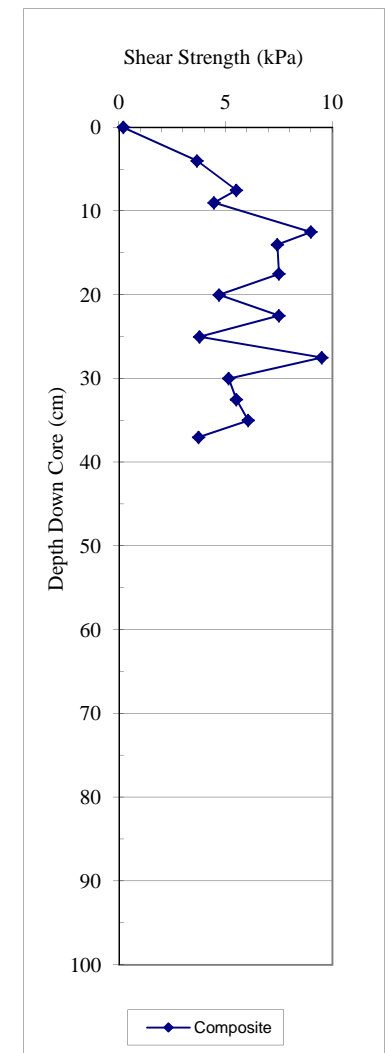
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0.0	0.19614
37.0	3.72666

Cruise No: 2007802
 Station: 36
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	5.50
12.5	9.00
17.5	7.50
22.5	7.50
27.5	9.50
32.5	5.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u>	<u>Remoulded</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
0.0	0.20	
4	3.66	2.51
7.5	5.50	
9	4.46	
12.5	9.00	
14	7.43	2.06
17.5	7.50	
20	4.68	
22.5	7.50	2.06
25	3.77	2.06
27.5	9.50	
30	5.14	
32.5	5.50	
35	6.05	0.69
37.0	3.73	



Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.23	5.22	38.23	4.6 Y	3.7/7
10	0.49	3.26	38.68	6.4 Y	3.7/5
15	0.66	4.06	37.06	6.0 Y	3.6/6
20	0.36	2.81	40.44	6.6 Y	3.9/4
25	0.52	3.53	38.75	6.3 Y	3.7/5
30	0.6	3.78	38.55	6.2 Y	3.6/5
35	0.56	2.87	44.27	4.9 Y	4.3/4

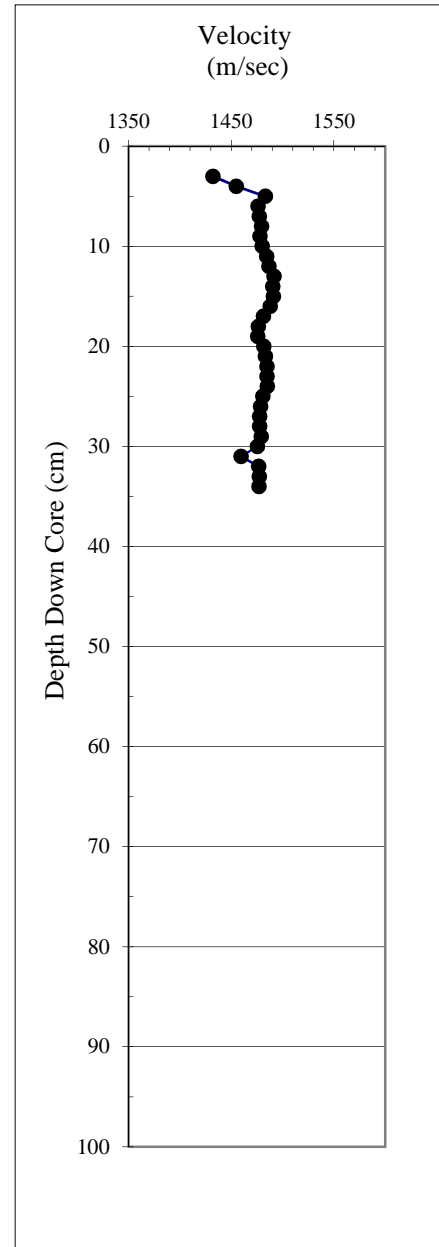
Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1432.12
4	1454.80
5	1483.21
6	1476.23
7	1477.24
8	1479.70
9	1478.12
10	1480.06
11	1484.58
12	1486.85
13	1491.56
14	1490.58
15	1491.03
16	1488.07
17	1481.58
18	1476.42
19	1475.91
20	1481.67
21	1483.41
22	1484.84
23	1485.00
24	1485.30
25	1480.79
26	1478.70
27	1477.73
28	1477.58
29	1479.21
30	1475.55
31	1459.48
32	1476.73
33	1477.39
34	1477.09
35	1477.96
36	1479.82
37	1485.52



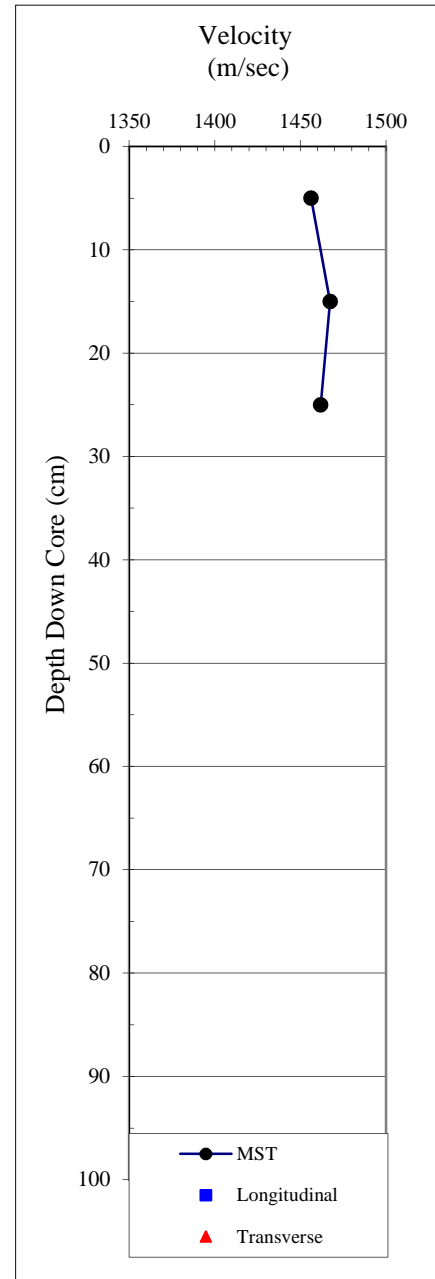
Cruise No: 2007802

Station: 36

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Tempreture (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
5	1456.28		9.96
15	1467.43		10.25
25	1461.84		10.58



Cruise No: 2007802

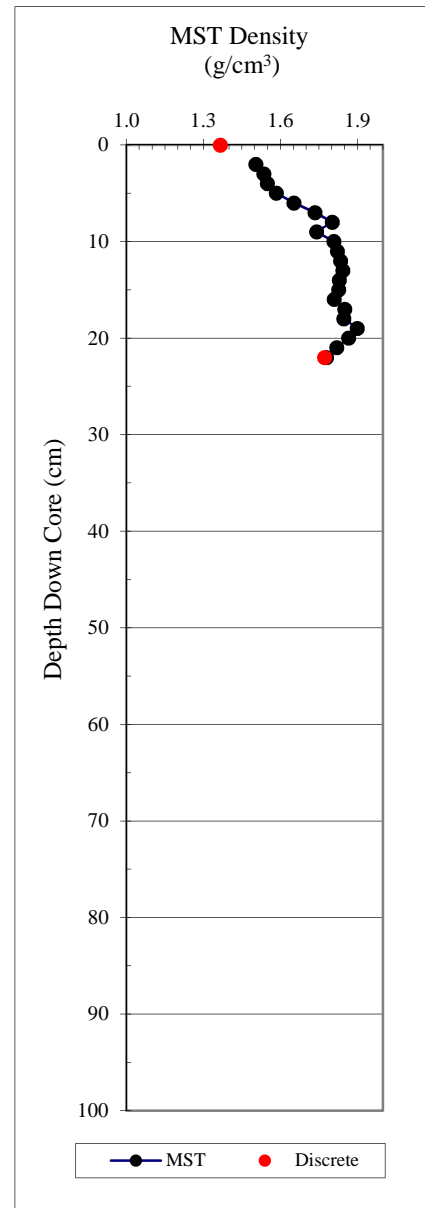
Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2	1.5038	0.011	0.01
3	1.5351	0.050	0.06
4	1.548	0.052	0.11
5	1.5837	0.056	0.17
6	1.6522	0.062	0.23
7	1.7342	0.069	0.30
8	1.8017	0.073	0.37
9	1.7405	0.073	0.45
10	1.8079	0.076	0.52
11	1.8211	0.078	0.60
12	1.8338	0.079	0.68
13	1.8429	0.080	0.76
14	1.8289	0.079	0.84
15	1.8266	0.078	0.92
16	1.8086	0.078	1.00
17	1.8498	0.080	1.07
18	1.8469	0.082	1.16
19	1.8992	0.084	1.24
20	1.8655	0.082	1.32
21	1.8188	0.078	1.40
22	1.7794	0.183	1.58

average 1.759



Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.37	0.63	71.58	2.23	2.52	53.66	115.81
** 22.0	1.77	1.21	54.48	2.67	1.20	31.48	45.94

Cruise No: 2007802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	14
7	16
8	18
9	19
10	20
11	21
12	21
13	21
14	21
15	21
16	21
17	20

**

**

Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.152
2	1.853
3	1.455
4	1.109
5	0.895
6	0.795
7	0.749
8	0.727
9	0.710
10	0.697
11	0.689
12	0.684
13	0.681
14	0.687
15	0.703
16	0.731
17	0.771
18	0.828
19	0.888
20	0.933
21	0.985
22	1.083

Cruise No: 2007802

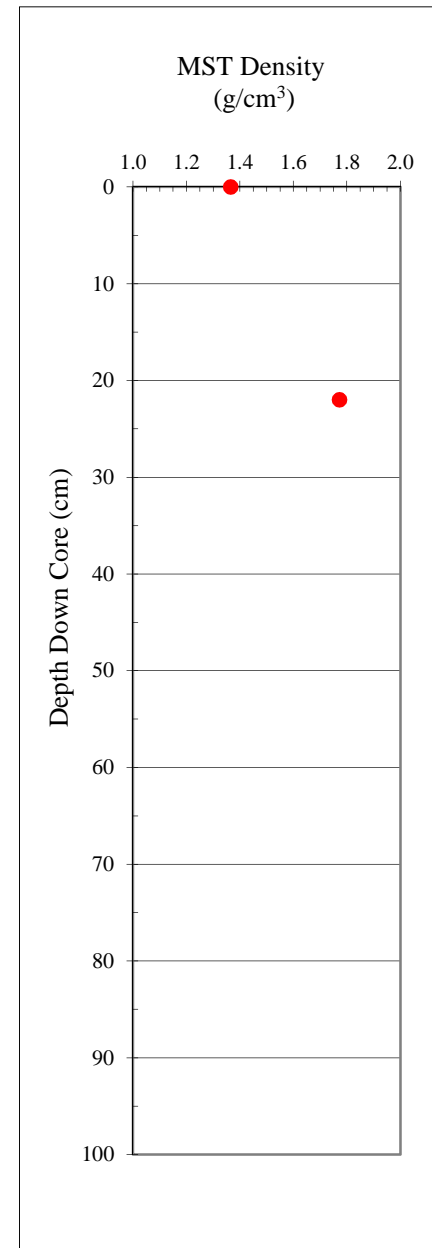
Station: 37

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

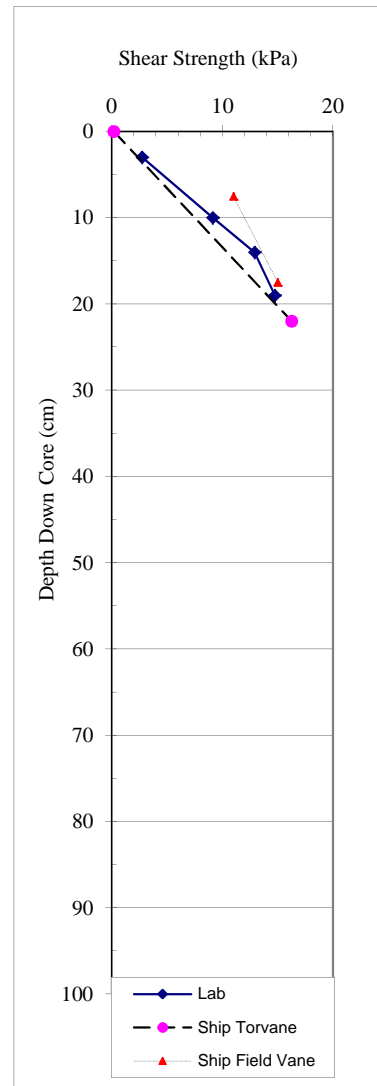
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.37	0.63	71.58	2.23	2.52	53.66	115.81
** 22.00	1.77	1.21	54.48	2.67	1.20	31.48	45.94



Cruise No: 2007802
 Station: 37
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	3	2.74	
10	9.14		
14	12.91		
19	14.74	0.69	21.50



Cruise No: 2007802
 Station: 37
 Sample Type: Push Core
 Data Type: Shipboard Torvane

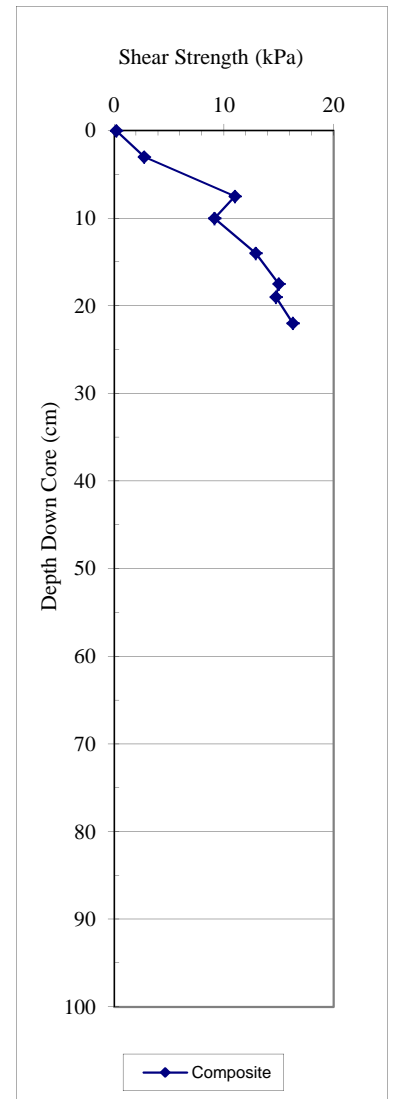
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
0.0	0.20
22.0	16.28

Cruise No: 2007802
 Station: 37
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	11.00
17.5	15.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	0.0	0.20
3	2.74	
7.5	11.00	
10	9.14	3.08
14	12.91	
17.5	15.00	
19	14.74	0.69
22	16.28	



Cruise No: 2007802

Station: 37

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.8	6.68	38.28	4.0 Y	3.7/9
10	0.15	2.48	37	8.1 Y	3.6/4
15	0.36	2.73	37.61	6.9 Y	3.6/4
20	0.32	2.93	38.49	7.2 Y	3.7/4

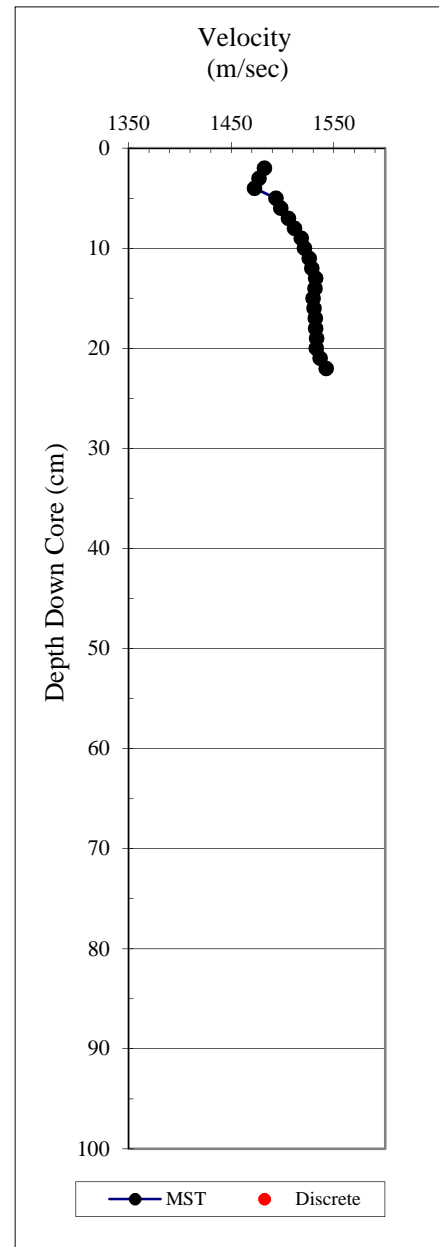
Cruise No: 2007802

Station: 37

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1482.318
3	1477.151
4	1472.754
5	1493.575
6	1498.176
7	1505.855
8	1511.765
9	1518.351
10	1521.434
11	1525.88
12	1528.426
13	1532.339
14	1531.765
15	1529.679
16	1530.775
17	1531.818
18	1532.288
19	1533.333
20	1532.81
21	1536.582
22	1542.614



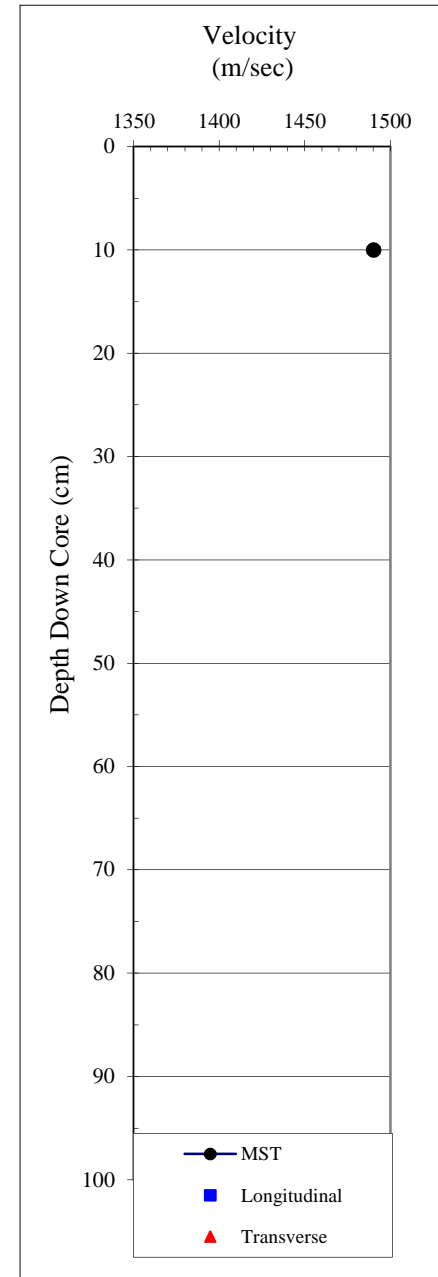
Cruise No: 2007802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1490.26		10.01



Cruise No: 2007802

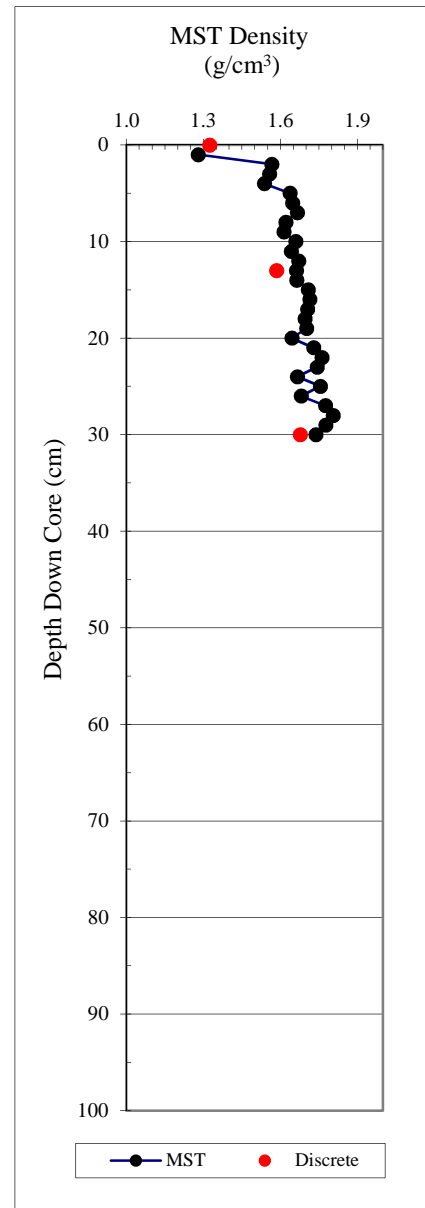
Station: 38

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1	1.279		
2	1.5661	0.046	0.05
3	1.5573	0.052	0.10
4	1.5372	0.053	0.15
5	1.6371	0.058	0.21
6	1.6467	0.061	0.27
7	1.6657	0.061	0.33
8	1.6202	0.059	0.39
9	1.6135	0.059	0.45
10	1.6594	0.061	0.51
11	1.6426	0.062	0.57
12	1.671	0.063	0.64
13	1.6621	0.063	0.70
14	1.6631	0.064	0.76
15	1.7085	0.066	0.83
16	1.7143	0.067	0.90
17	1.7056	0.067	0.96
18	1.695	0.066	1.03
19	1.7021	0.065	1.09
20	1.6444	0.064	1.16
21	1.7293	0.068	1.23
22	1.7621	0.071	1.30
23	1.7435	0.069	1.37
24	1.6658	0.067	1.43
25	1.7556	0.068	1.50
26	1.6804	0.069	1.57
27	1.775	0.072	1.64
28	1.8049	0.075	1.72
29	1.7763	0.074	1.79
30	1.7385	0.264	2.05

average 1.667



Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.324	0.531	77.438	2.353	3.432	59.901	149.380
13.0	1.585	0.883	68.540	2.806	2.179	44.295	79.518
** 30.0	1.677	1.066	59.682	2.645	1.480	36.434	57.316

Cruise No: 2007802

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	16
6	16
7	16
8	17
9	17
10	18
11	19
12	18
13	19
14	19
15	19
16	19
17	19
18	20
19	20
20	21
21	21
22	21
23	21
24	21
25	21

Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.672
2	1.361
3	1.031
4	0.808
5	0.694
6	0.636
7	0.607
8	0.592
9	0.586
10	0.584
11	0.588
12	0.591
13	0.593
14	0.595
15	0.597
16	0.602
17	0.606
18	0.613
19	0.622
20	0.632
21	0.646
22	0.659
23	0.671
24	0.681
25	0.687
26	0.691
27	0.699
28	0.719
29	0.764
30	0.867

Cruise No: 2007802

Station: 38

Sample Type: Push Core

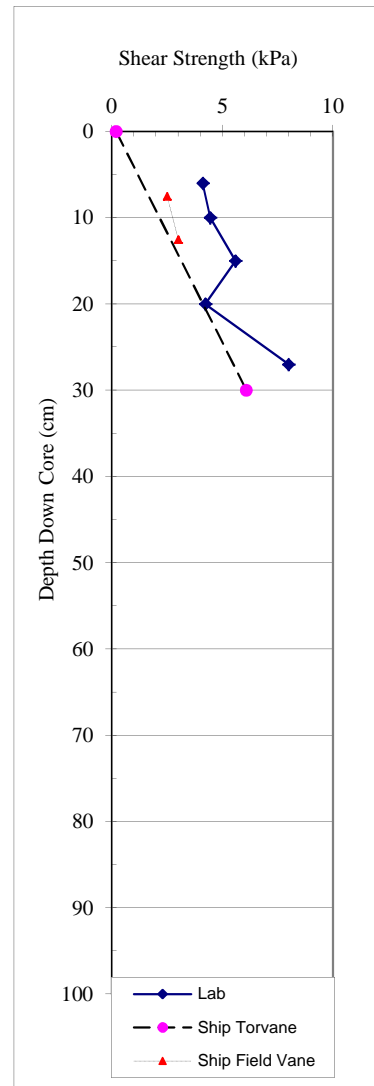
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.324	0.531	77.438	2.353	3.432	59.901	149.380
13.00	1.585	0.883	68.540	2.806	2.179	44.295	79.518
** 30.00	1.677	1.066	59.682	2.645	1.480	36.434	57.316

Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
6	4.11	2.28	1.80
10	4.46		
15	5.60	1.14	4.90
20	4.23		
27	8.00	1.03	7.78



Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Shipboard Torvane

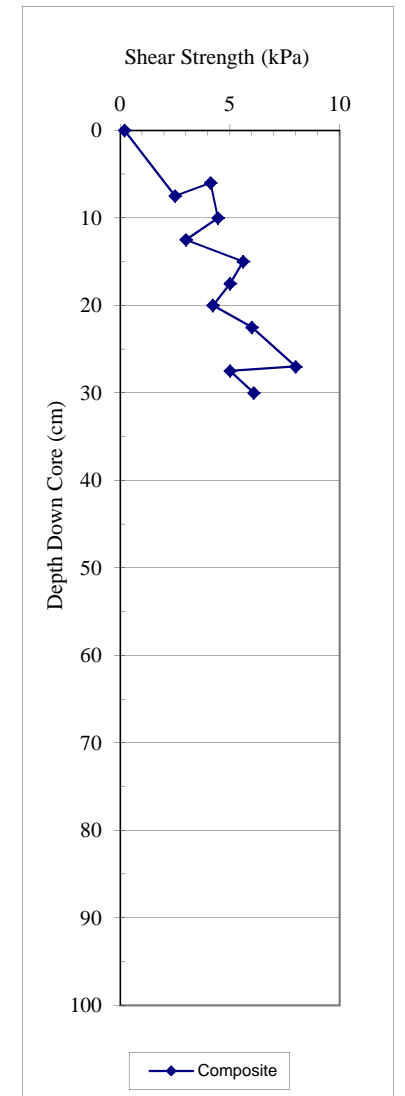
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
0.0	0.20
30.0	6.08

Cruise No: 2007802
 Station: 38
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.50
12.5	3.00
17.5	5.00
22.5	6.00
27.5	5.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
7.5	2.50	
6	4.11	2.28
10	4.46	
12.5	3.00	
15	5.60	1.14
17.5	5.00	
20	4.23	
22.5	6.00	
27	8.00	1.03
27.5	5.00	
30.0	6.08	



Cruise No: 2007802

Station: 38

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.42	5.48	39.95	4.1 Y	3.8/8
10	1.58	6.1	39.09	4.2 Y	3.8/8
15	0.95	4.46	39.23	4.9 Y	3.8/6
20	1.02	4.92	37.54	5.0 Y	3.6/7
25	0.81	4.46	37.37	5.8 Y	3.6/6

Cruise No: 2007802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1442.464
3	1434.174
4	1479.434
5	1473.512
6	1479.132
7	1478.892
8	1476.383
9	1476.383
10	1477.487
11	1479.55
12	1479.55
13	1478.443
14	1477.337
15	1480.66
16	1485.113
17	1488.47
18	1488.47
19	1483.997
20	1481.77
21	1488.018
22	1497.572
23	1501.522
24	1504.043
25	1502.975
26	1499.619
27	1507.739
28	1506.135
29	1505.82
30	1511.988

Cruise No: 2007802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1450.76		8.4
20	1470.25		8.64

Cruise No: 2007802

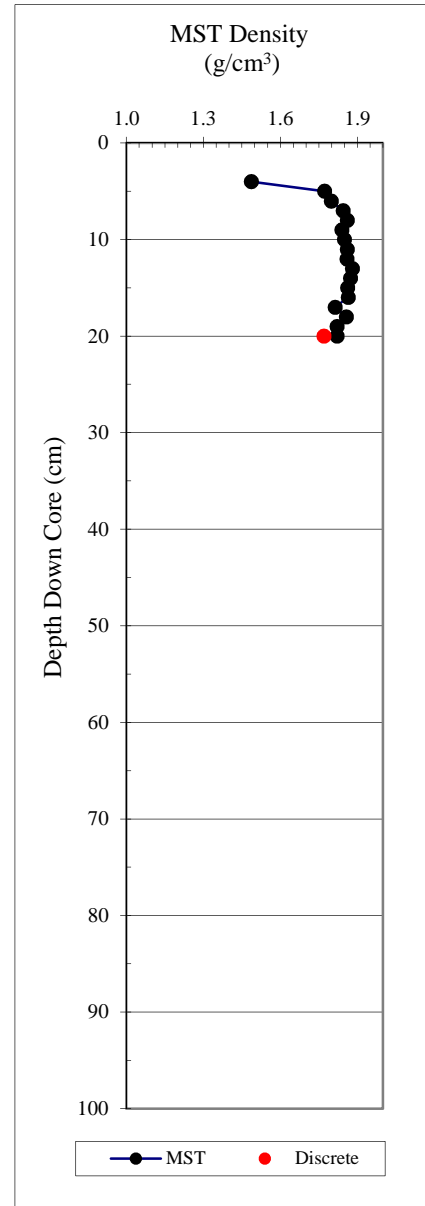
Station: 39

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
0			
1			
2			
3			
4	1.4856	0.016	0.02
5	1.7717	0.067	0.08
6	1.7974	0.076	0.16
7	1.8434	0.080	0.24
8	1.8602	0.081	0.32
9	1.8388	0.081	0.40
10	1.8485	0.081	0.48
11	1.8604	0.082	0.56
12	1.8592	0.082	0.65
13	1.8797	0.083	0.73
14	1.8725	0.083	0.81
15	1.8615	0.082	0.89
16	1.8633	0.081	0.98
17	1.8124	0.080	1.06
18	1.8561	0.080	1.14
19	1.8208	0.079	1.21
20	1.8205	0.151	1.36

average 1.821



Cruise No: 2007802

Station: 39

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 20.0	1.769	1.206	54.936	2.677	1.219	31.800	46.628

Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	20
6	22
7	24
8	25
9	25
10	26
11	26
12	27
13	26
14	26
15	26

Cruise No: 2007802

Station: 39

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	2.656
2	2.429
3	1.796
4	1.234
5	0.925
6	0.785
7	0.731
8	0.712
9	0.708
10	0.710
11	0.713
12	0.717
13	0.721
14	0.725
15	0.729
16	0.741
17	0.760
18	0.793
19	0.851
20	0.967

Cruise No: 2007802

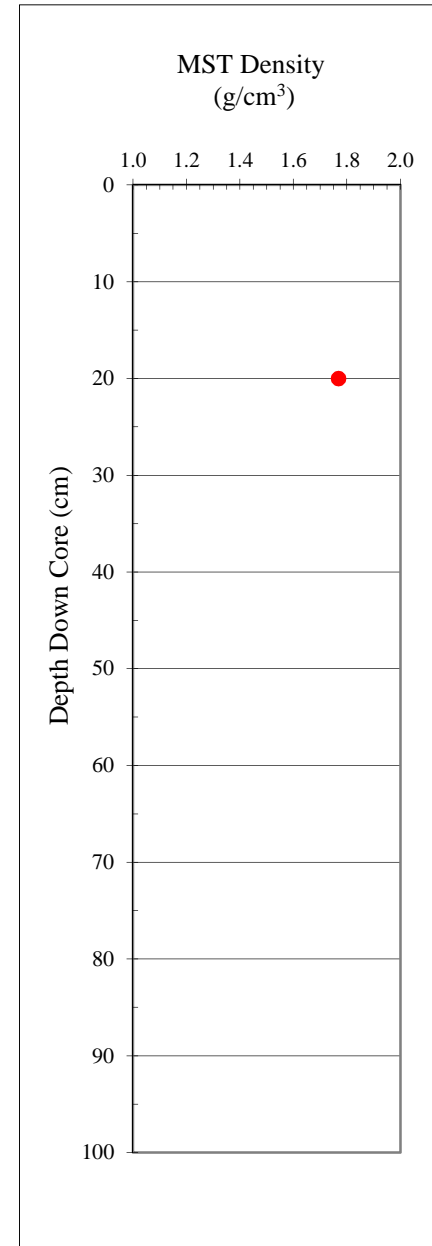
Station: 39

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

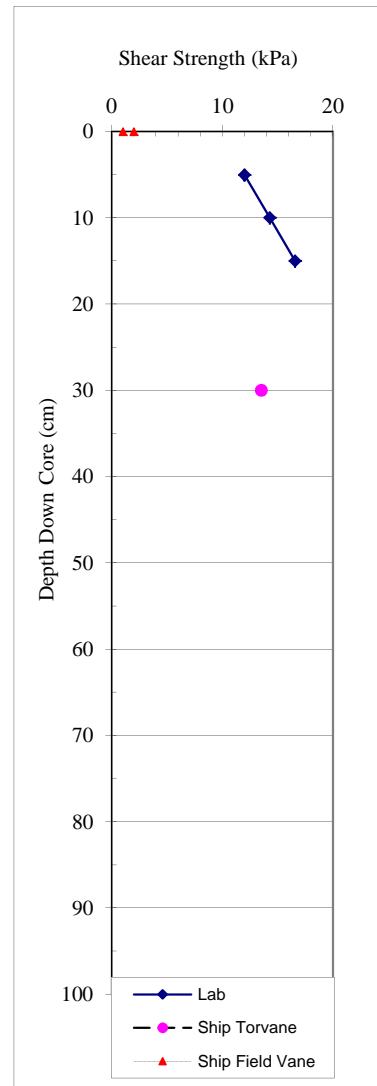
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 20.0	1.769	1.206	54.936	2.677	1.219	31.800	46.628



Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	11.99	2.17	5.53
10	14.28		
15	16.56	1.26	13.15



Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Shipboard Torvane

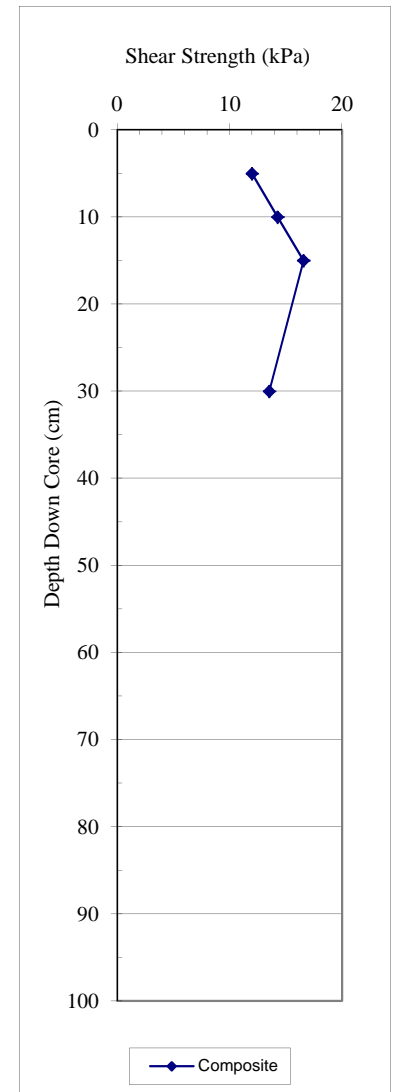
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
30.0	13.53

Cruise No: 2007802
 Station: 39
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
5	11.99	2.17
10	14.28	
15	16.56	1.26
30.0	13.53	



Cruise No: 2007802

Station: 39

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.24	2.09	41.89	6.9 Y	4.1/.3
10	0.22	2.5	39.07	7.5 Y	3.8/.4
15	0.5	3.07	40.6	5.8 Y	3.9/.4

Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
5	1546.16
6	1539.178
7	1541.92
8	1543.192
9	1544.401
10	1549.254
11	1551.692
12	1551.692
13	1551.849
14	1551.849
15	1550.786
16	1547.294
17	1545.341
18	1542.924
19	1541.049
20	1550



Cruise No: 2007802

Station: 39

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
6	1439.85		10.59
14	1513.83		10.87

Cruise No: 2007802

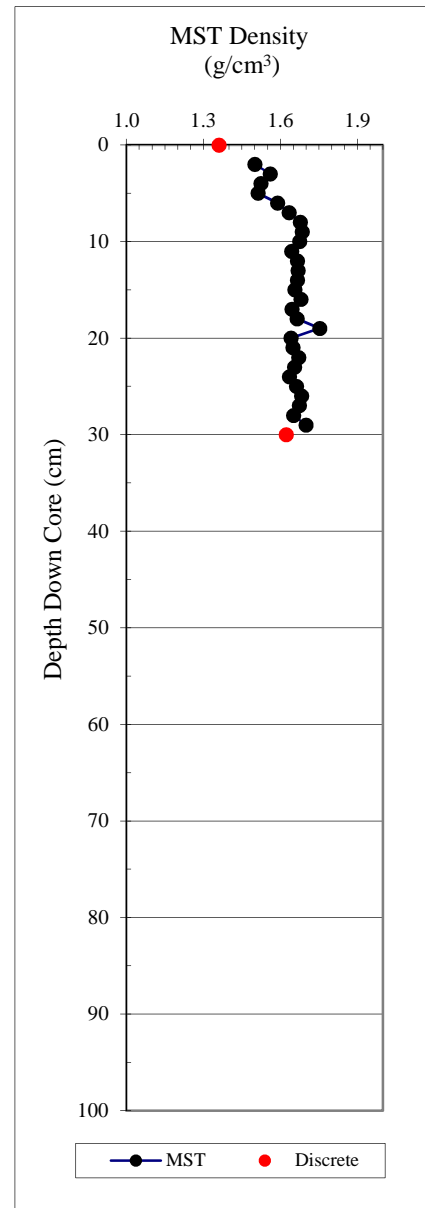
Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4995	0.025	0.02
3	1.5593	0.050	0.07
4	1.5231	0.050	0.12
5	1.5123	0.050	0.17
6	1.5885	0.055	0.23
7	1.6332	0.060	0.29
8	1.6768	0.063	0.35
9	1.6842	0.064	0.42
10	1.675	0.063	0.48
11	1.6433	0.062	0.54
12	1.6655	0.062	0.60
13	1.6686	0.063	0.67
14	1.6657	0.063	0.73
15	1.6557	0.063	0.79
16	1.6796	0.063	0.86
17	1.644	0.062	0.92
18	1.6638	0.064	0.98
19	1.7526	0.067	1.05
20	1.6406	0.063	1.11
21	1.6488	0.062	1.17
22	1.6706	0.063	1.24
23	1.6548	0.062	1.30
24	1.6347	0.061	1.36
25	1.6623	0.062	1.42
26	1.6818	0.064	1.49
27	1.6728	0.063	1.55
28	1.6501	0.063	1.61
29	1.6998	0.023	1.64
30			

average 1.643



Cruise No: 2007802

Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.360	0.556	78.531	2.590	3.658	59.122	144.631
** 30.0	1.622	0.972	63.506	2.663	1.740	40.090	66.918

Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	15
7	16
8	16
9	17
10	17
11	17
12	18
13	17
14	17
15	18
16	19
17	20
18	21
19	21
20	20
21	19
22	18
23	18
24	17
25	16

Cruise No: 2007802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.743
2	1.571
3	1.282
4	0.976
5	0.774
6	0.670
7	0.619
8	0.595
9	0.584
10	0.583
11	0.587
12	0.593
13	0.601
14	0.606
15	0.611
16	0.614
17	0.613
18	0.613
19	0.611
20	0.607
21	0.605
22	0.605
23	0.608
24	0.616
25	0.625
26	0.641
27	0.668
28	0.713
29	0.798
30	0.958

Cruise No: 2007802

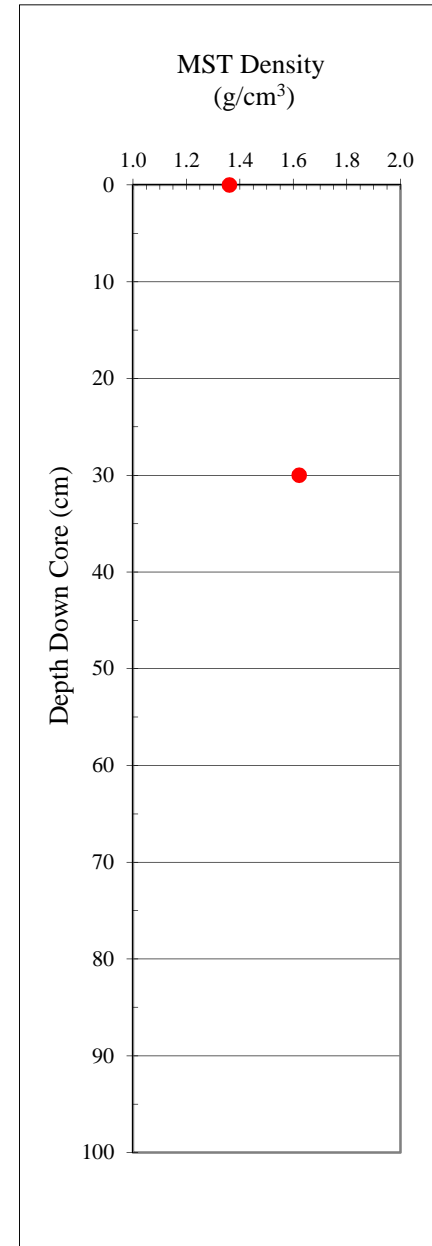
Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

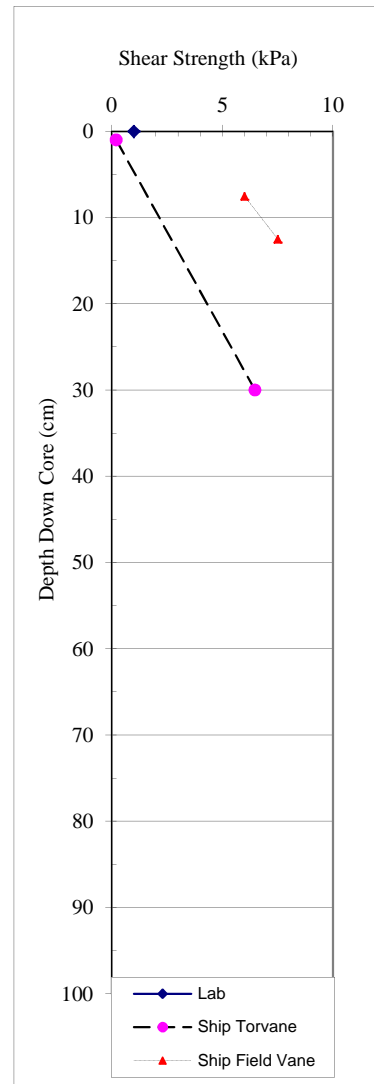
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.360	0.556	78.531	2.590	3.658	59.122	144.631
** 30.0	1.622	0.972	63.506	2.663	1.740	40.090	66.918



Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u>	<u>Remoulded</u>	
<u>Depth Down</u>	<u>Undrained</u>	<u>Undrained</u>	
<u>Core (cm)</u>	<u>Shear Shear</u>	<u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
NA	NA	NA	NA



Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Torvane

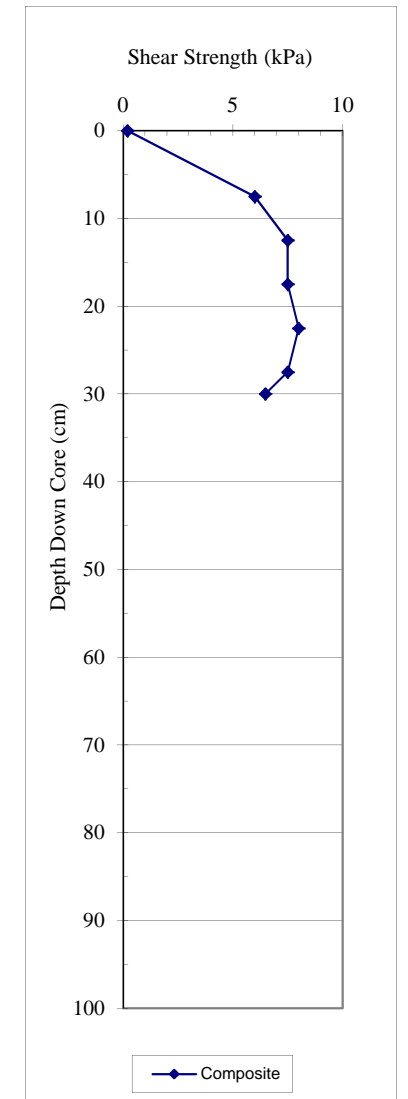
	<u>Undrained</u>
<u>Depth</u>	<u>Shear</u>
<u>Down</u>	<u>Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
1.0	0.20
30.0	6.47

Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u>
<u>Depth</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>
7.5	6.00
12.5	7.50
17.5	7.50
22.5	8.00
27.5	7.50

Composite

	<u>Peak</u>	<u>Remoulded</u>
<u>Depth</u>	<u>Undrained</u>	<u>Undrained</u>
<u>Down</u>	<u>Shear Shear</u>	<u>Shear Shear</u>
<u>Core (cm)</u>	<u>(kPa)</u>	<u>(kPa)</u>
0.0	0.20	
7.5	6.00	
12.5	7.50	
17.5	7.50	
22.5	8.00	
27.5	7.50	
30.0	6.47	



Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
NA	NA	NA	NA	NA

Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1497.847
3	1490.222
4	1489.762
5	1500.45
6	1495.567
7	1506.026
8	1509.258
9	1509.648
10	1507.492
11	1506.646
12	1504.653
13	1502.666
14	1501.826
15	1504.421
16	1505.721
17	1507.176
18	1513.103
19	1521.263
20	1514.264
21	1503.732
22	1504.421
23	1505.263
24	1504.958
25	1502.361
26	1504.348
27	1506.575
28	1507.61
29	1512.169
30	1520.632

Cruise No: 2007802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
NA	NA	NA	NA

Cruise No: 2007802

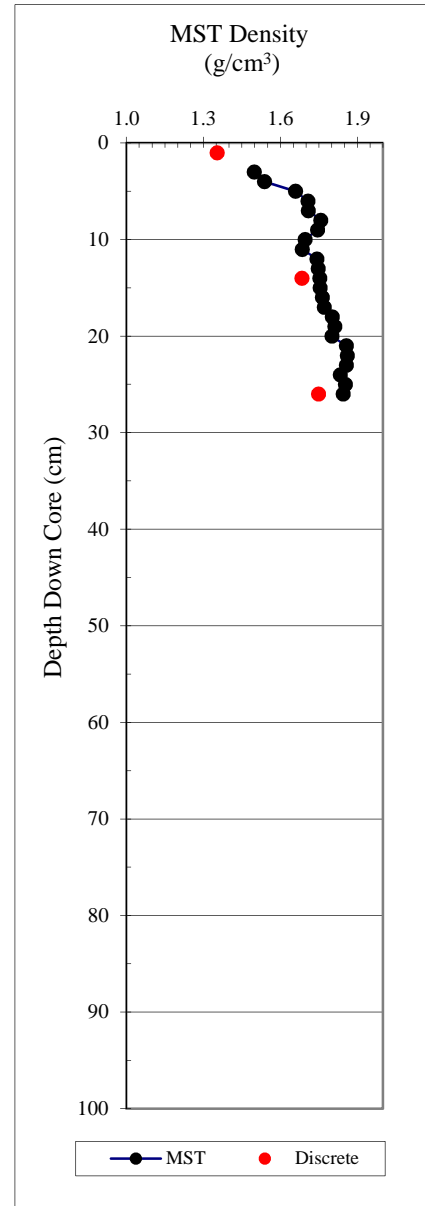
Station: 41

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.4979	0.024	0.02
4	1.5377	0.052	0.08
5	1.6583	0.060	0.14
6	1.7068	0.066	0.20
7	1.7077	0.068	0.27
8	1.757	0.070	0.34
9	1.7439	0.070	0.41
10	1.6958	0.067	0.48
11	1.6844	0.066	0.54
12	1.7418	0.069	0.61
13	1.7463	0.071	0.68
14	1.7529	0.071	0.76
15	1.7541	0.072	0.83
16	1.7634	0.072	0.90
17	1.7707	0.074	0.97
18	1.8011	0.076	1.05
19	1.8114	0.077	1.13
20	1.8006	0.078	1.20
21	1.8566	0.080	1.28
22	1.8596	0.082	1.37
23	1.8568	0.081	1.45
24	1.8333	0.080	1.53
25	1.8523	0.081	1.61
26	1.8441	0.170	1.78

average 1.751



Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.353	0.657	67.955	2.051	2.121	51.425	105.866
14.0	1.684	1.027	64.166	2.865	1.791	39.027	64.008
** 26.0	1.748	1.172	56.257	2.679	1.286	32.954	49.152

Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	13
6	15
7	17
8	19
9	19
10	20
11	20
12	20
13	21
14	21
15	21
16	22
17	22
18	22
19	22
20	23
21	23

Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
2	1.743
3	1.589
4	1.337
5	1.053
6	0.842
7	0.733
8	0.679
9	0.648
10	0.632
11	0.623
12	0.618
13	0.614
14	0.613
15	0.613
16	0.617
17	0.620
18	0.625
19	0.630
20	0.637
21	0.642
22	0.651
23	0.670
24	0.703
25	0.758
26	0.861

Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.353	0.657	67.955	2.051	2.121	51.425	105.866
14.0	1.684	1.027	64.166	2.865	1.791	39.027	64.008
** 26.0	1.748	1.172	56.257	2.679	1.286	32.954	49.152

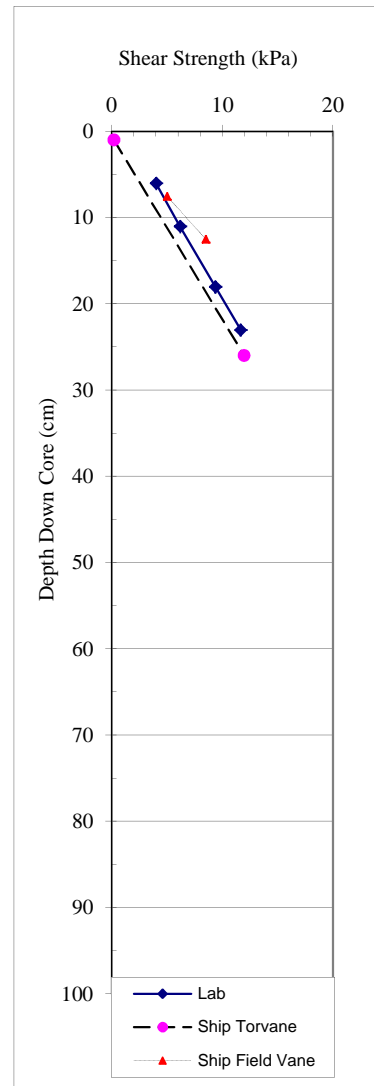
Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
6	4.00	1.83	2.19
11	6.17		
18	9.37	5.60	1.67
23	11.65		



Cruise No: 2007802

Station: 41

Sample Type: Push Core

Data Type: Shipboard Torvane

Depth Down Core (cm)	<u>Undrained</u> Shear
	(kPa)
1.0	0.20
26.0	11.96

Cruise No: 2007802

Station: 41

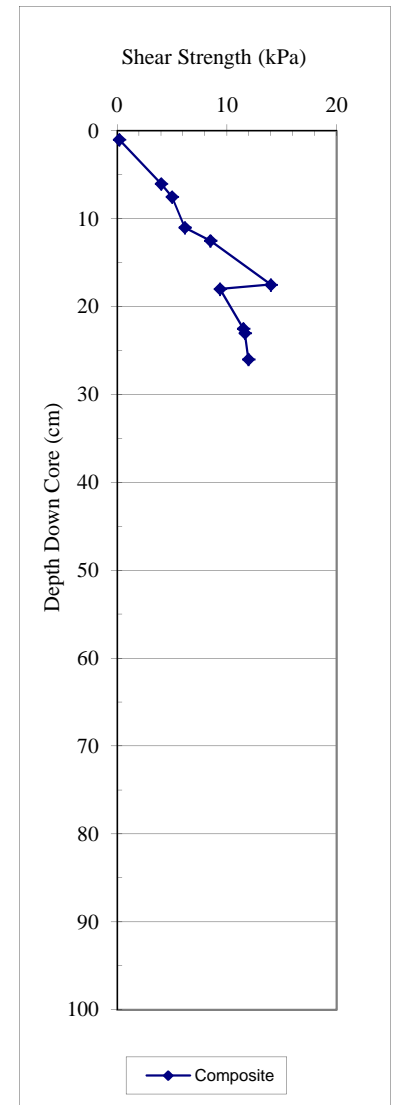
Sample Type: Push Core

Data Type: Shipboard Field HandVane

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
7.5	5.00
12.5	8.50
17.5	14.00
22.5	11.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
6	4.00	4.83
7.5	5.00	
11	6.17	
12.5	8.50	
17.5	14.00	
18	9.37	5.60
22.5	11.50	
23	11.65	
26.0	11.96	



Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.27	2.14	44.23	6.4 Y	4.3/.3
10	0.1	1.92	43.85	7.9 Y	4.2/.3
15	0.13	2.24	41.13	7.9 Y	4.0/.3
20	0.18	2.22	39.43	7.8 Y	3.8/.3

Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	
1	
2	
3	1473.185
4	1492.03
5	1490.526
6	1495.296
7	1495.448
8	1495.122
9	1492.694
10	1490.274
11	1486.667
12	1493.536
13	1497.486
14	1497.565
15	1497.034
16	1498.63
17	1501.372
18	1506.422
19	1510.345
20	1513.123
21	1514.439
22	1518.952
23	1523.279
24	1518.519
25	1514.22
26	1520.246
27	1506.575
28	1507.61
29	1512.169
30	1520.632

Cruise No: 2007802

Station: 41

Sample Type: **Push Core**

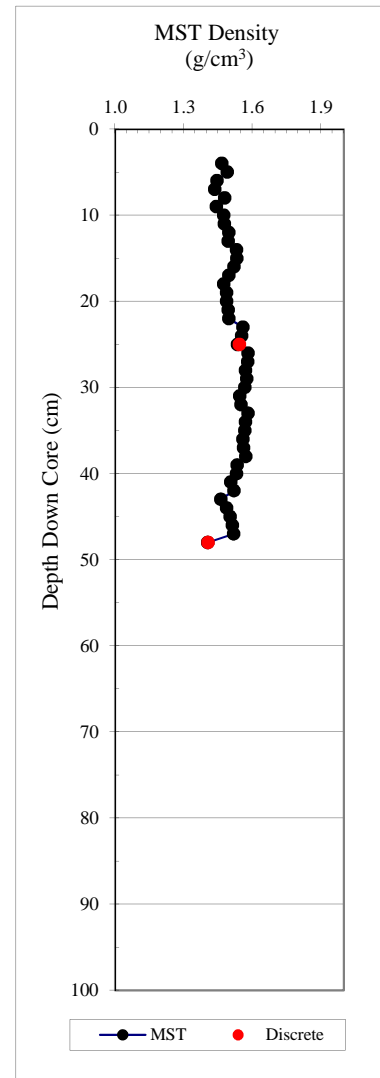
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1467.43		10.64
18	1490.27		10.89

Cruise No: 2007802
 Station: 42
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 42
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4633	0.021	0.02
3	1.4528	0.043	0.06
4	1.4668	0.044	0.11
5	1.4913	0.044	0.15
6	1.4462	0.042	0.19
7	1.4359	0.042	0.24
8	1.4795	0.043	0.28
9	1.4425	0.043	0.32
10	1.4746	0.044	0.36
11	1.4781	0.045	0.41
12	1.4981	0.046	0.46
13	1.4954	0.047	0.50
14	1.5315	0.049	0.55
15	1.533	0.050	0.60
16	1.5206	0.048	0.65
17	1.497	0.046	0.70
18	1.4757	0.045	0.74
19	1.4882	0.045	0.79
20	1.4884	0.046	0.83
21	1.4944	0.046	0.88
22	1.4982	0.048	0.93
23	1.5597	0.051	0.98
24	1.5542	0.052	1.03
25	1.5348	0.052	1.08
26	1.5815	0.053	1.13
27	1.5796	0.054	1.19
28	1.5697	0.054	1.24
29	1.5753	0.054	1.30
30	1.5673	0.053	1.35
31	1.5457	0.052	1.40
32	1.5501	0.052	1.45
33	1.5822	0.054	1.51
34	1.5707	0.054	1.56
35	1.5682	0.053	1.61
36	1.5591	0.053	1.67
37	1.5624	0.053	1.72
38	1.5716	0.053	1.77
39	1.5336	0.051	1.82
40	1.5313	0.049	1.87
41	1.5056	0.048	1.92
42	1.52	0.047	1.97
43	1.4625	0.045	2.01
44	1.4879	0.045	2.06
45	1.5034	0.047	2.10
46	1.5135	0.048	2.15
47	1.5192	0.046	2.20
48	1.4056	0.778	2.98



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25.0	1.544	0.807	71.993	2.881	2.571	47.744	91.365
48.0	1.406	0.688	70.178	2.306	2.353	51.097	104.485

Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	9
6	10
7	10
8	10
9	11
10	12
11	12
12	12
13	12
14	12
15	13
16	12
17	12
18	12
19	12
20	13
21	13
22	13
23	12
24	13
25	13
26	13
27	13
28	14
29	14
30	14
31	14
32	14
33	14
34	14
35	14
36	14
37	14
38	13
39	13
40	12
41	12
42	12
43	12

Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.650
2	1.501
3	1.225
4	0.929
5	0.737
6	0.634
7	0.586
8	0.561
9	0.550
10	0.547
11	0.549
12	0.553
13	0.558
14	0.562
15	0.566
16	0.568
17	0.568
18	0.568
19	0.568
20	0.568
21	0.568
22	0.568
23	0.568
24	0.569
25	0.571
26	0.572
27	0.574
28	0.573
29	0.575
30	0.577
31	0.577
32	0.578
33	0.579
34	0.592
35	0.596
36	0.599
37	0.603
38	0.606
39	0.606
40	0.606
41	0.605
42	0.604
43	0.605
44	0.608
45	0.618
46	0.637
47	0.674
48	0.749

Cruise No: 2007802

Station: 42

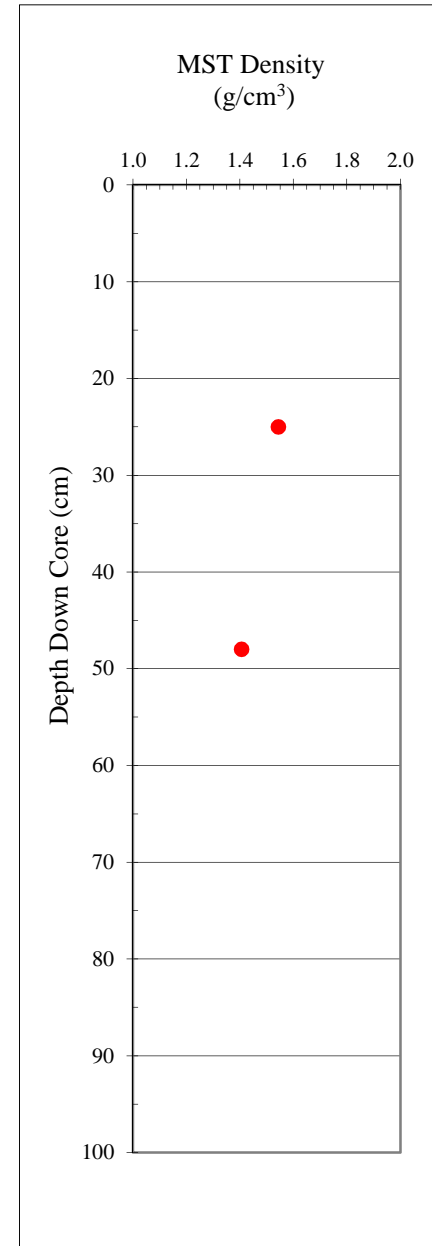
Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25.0	1.544	0.807	71.993	2.881	2.571	47.744	91.365
48.0	1.406	0.688	70.178	2.306	2.353	51.097	104.485

**



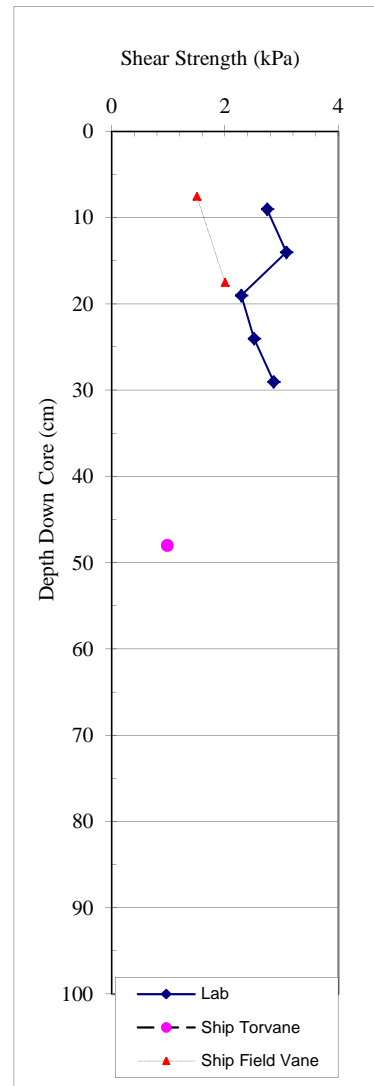
Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
9	2.74	2.40	1.14
14	3.08		
19	2.28	2.17	1.05
24	2.51		
29	2.86	1.71	1.67
34	3.88		
39	3.88	2.17	1.79
44	3.43		



<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
48	0.98

Cruise No: 2007802

Station: 42

Sample Type: Push Core

Data Type: Shipboard Torvane

Cruise No: 2007802

Station: 42

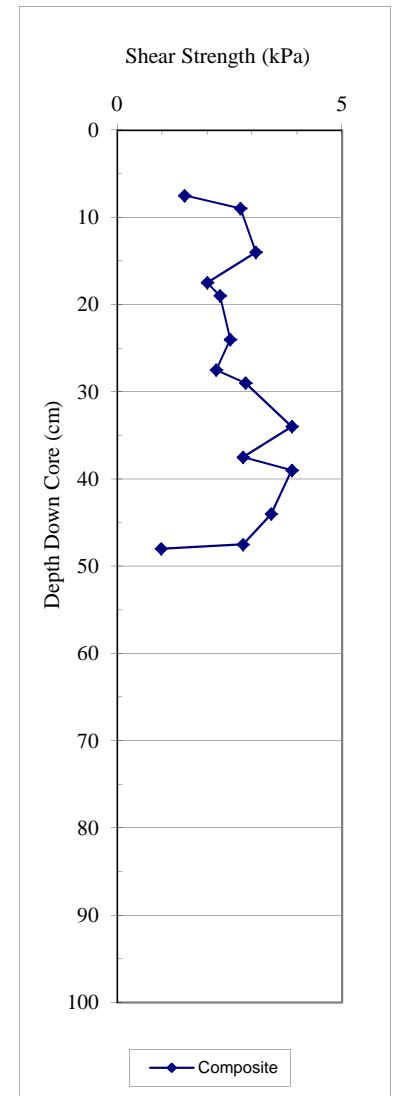
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear
	(kPa)
7.5	1.50
17.5	2.00
27.5	2.20
37.5	2.80
47.5	2.80

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
7.5	1.50	
9	2.74	2.40
14	3.08	
17.5	2.00	
19	2.28	2.17
24	2.51	
27.5	2.20	
29	2.86	1.71
34	3.88	
37.5	2.80	
39	3.88	2.17
44	3.43	
47.5	2.80	
48	0.98	



Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	2.39	7.92	39.76	3.3 Y	3.8/1.1
10	1.86	6.92	39.89	3.9 Y	3.8/1.0
15	1.39	5.4	37.38	4.3 Y	3.6/8
20	0.91	4.18	38.9	4.7 Y	3.8/6
25	1.44	4.98	42.82	3.3 Y	4.1/7
30	1.65	6.24	38.95	4.0 Y	3.7/9
35	0.93	4.5	37.59	5.0 Y	3.6/6
40	0.29	3.02	36.23	7.6 Y	3.5/5
45	0.46	3.21	38.64	6.4 Y	3.7/5

Cruise No: 2007802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1483.92
3	1478.26
4	1481.72
5	1497.00
6	1501.21
7	1497.27
8	1494.47
9	1493.33
10	1491.07
11	1492.20
12	1491.07
13	1494.31
14	1496.28
15	1498.10
16	1500.08
17	1496.35
18	1494.76
19	1495.59
20	1495.59
21	1495.44
22	1496.58
23	1498.86
24	1500.00
25	1498.86
26	1498.86
27	1500.00
28	1500.00
29	1500.00
30	1500.00
31	1498.86
32	1497.72
33	1498.17
34	1497.80
35	1497.11
36	1497.72
37	1497.04
38	1495.53
39	1494.02
40	1493.80
41	1492.45
42	1490.95
43	1494.86
44	1495.00
45	1489.14
46	1494.81
47	1489.05
48	1508.63

Cruise No: 2007802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1439.85		9.98
20	1445.28		10.22
30	1445.28		10.5
40	1445.28		10.67

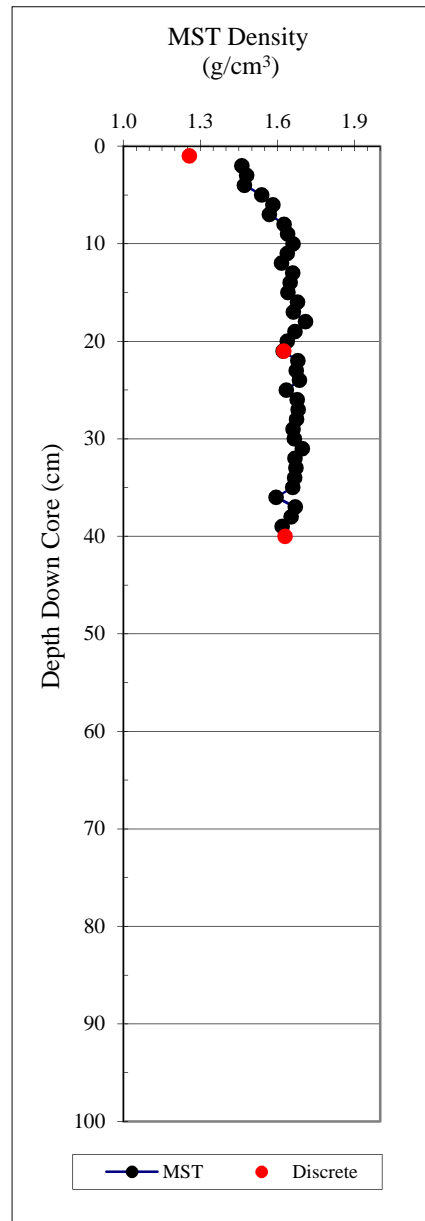
Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.4609	0.022	0.02
3	1.48	0.044	0.07
4	1.4709	0.046	0.11
5	1.538	0.050	0.16
6	1.5826	0.053	0.21
7	1.5686	0.055	0.27
8	1.6263	0.058	0.33
9	1.6401	0.061	0.39
10	1.6608	0.061	0.45
11	1.6388	0.060	0.51
12	1.6156	0.060	0.57
13	1.6594	0.061	0.63
14	1.6494	0.061	0.69
15	1.6413	0.062	0.75
16	1.6787	0.063	0.82
17	1.6624	0.064	0.88
18	1.7095	0.065	0.95
19	1.6682	0.063	1.01
20	1.6389	0.061	1.07
21	1.622	0.060	1.13
22	1.6789	0.063	1.19
23	1.6726	0.064	1.26
24	1.6861	0.063	1.32
25	1.6343	0.062	1.38
26	1.677	0.063	1.45
27	1.6804	0.064	1.51
28	1.675	0.064	1.57
29	1.6602	0.063	1.64
30	1.6663	0.064	1.70
31	1.6975	0.065	1.77
32	1.6684	0.064	1.83
33	1.672	0.063	1.89
34	1.6668	0.063	1.96
35	1.659	0.061	2.02
36	1.595	0.059	2.08
37	1.6694	0.061	2.14
38	1.6537	0.061	2.20
39	1.6183	0.441	2.64



Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.256	0.493	74.524	1.936	2.925	60.743	154.733
21.0	1.625	0.941	66.765	2.831	2.009	42.085	72.667
** 40.0	1.630	0.994	62.101	2.622	1.639	39.021	63.990

Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	12
6	13
7	14
8	15
9	16
10	16
11	16
12	17
13	17
14	16
15	17
16	18
17	18
18	18
19	17
20	17
21	17
22	18
23	17
24	17
25	18
26	17
27	18
28	18
29	17
30	17
31	18
32	18
33	17
34	17
35	16

Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.718
2	1.552
3	1.282
4	0.985
5	0.785
6	0.681
7	0.632
8	0.613
9	0.607
10	0.607
11	0.610
12	0.616
13	0.622
14	0.628
15	0.629
16	0.630
17	0.634
18	0.638
19	0.642
20	0.645
21	0.648
22	0.648
23	0.646
24	0.646
25	0.646
26	0.648
27	0.651
28	0.652
29	0.653
30	0.655
31	0.655
32	0.655
33	0.655
34	0.653
35	0.658
36	0.668
37	0.689
38	0.731
39	0.811
40	0.967

Cruise No: 2007802

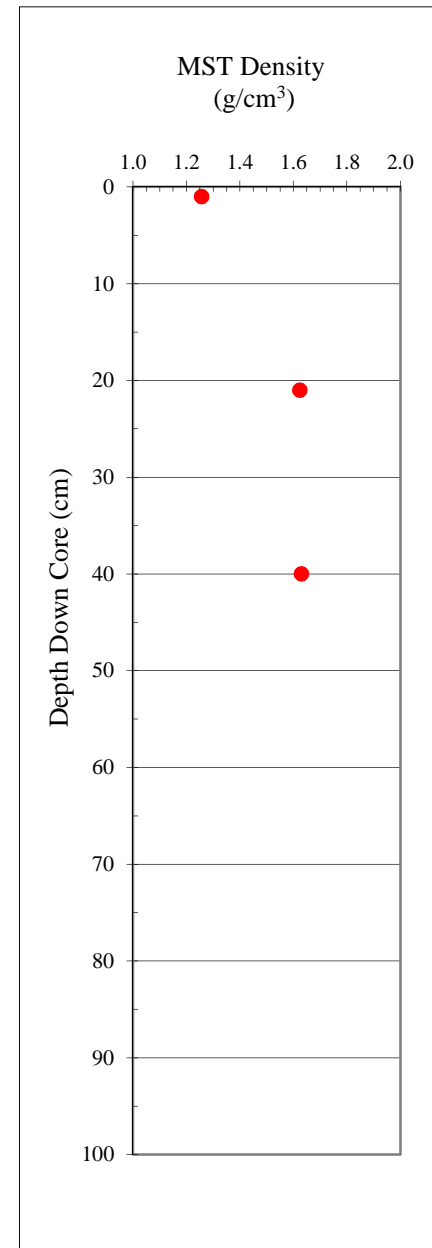
Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1.0	1.256	0.493	74.524	1.936	2.925	60.743	154.733
21.0	1.625	0.941	66.765	2.831	2.009	42.085	72.667
** 40.0	1.630	0.994	62.101	2.622	1.639	39.021	63.990



Cruise No: 2007802

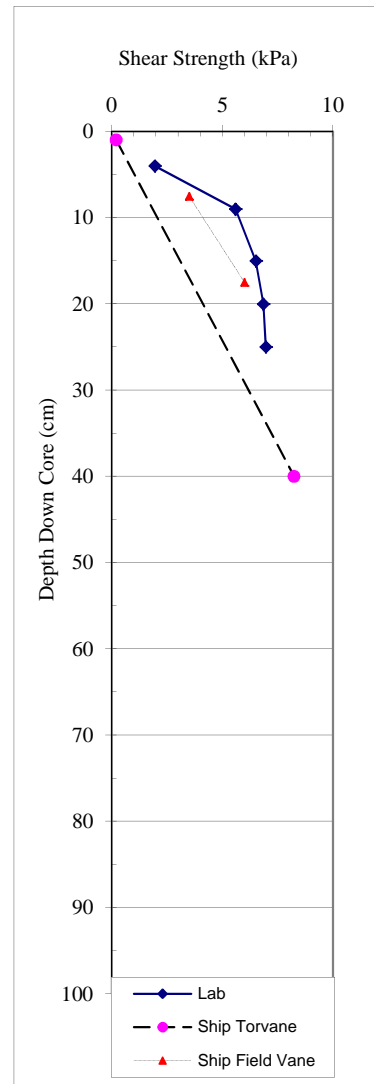
Station: 43

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	1.94		
9	5.60	3.43	1.63
15	6.51		
20	6.85	2.86	2.40
25	6.97		
30	7.88	3.66	2.16
35	6.85		
37	9.14	2.97	3.08

Disturbed Uneven Surface



Cruise No: 2007802

Station: 43

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
40	8.24

Cruise No: 2007802

Station: 43

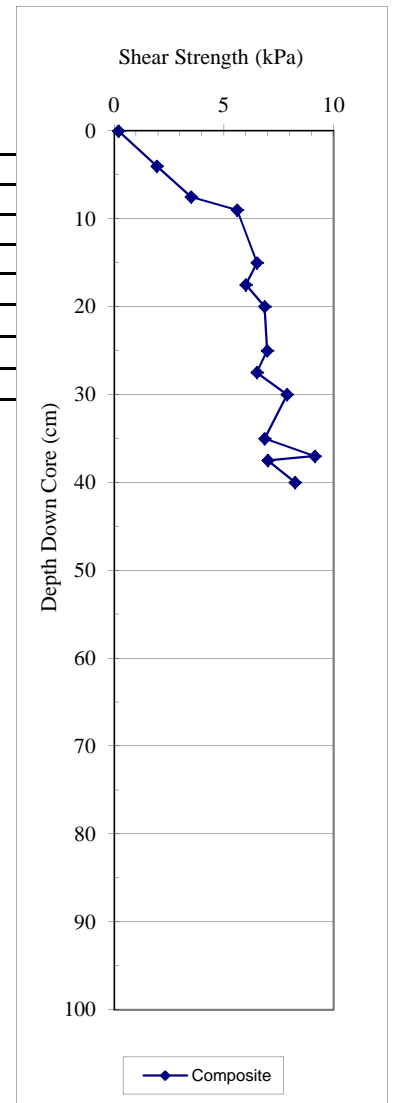
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	3.50
17.5	6.00
27.5	6.50
37.5	7.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
4	1.94	
7.5	3.50	
9	5.60	3.43
15	6.51	
17.5	6.00	
20	6.85	2.86
25	6.97	
27.5	6.50	
30	7.88	3.66
35	6.85	
37	9.14	2.97
37.5	7.00	
40	8.24	



Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.91	4.3	38.59	4.9 Y	3.7/.6
10	0.26	3.1	37.39	7.8 Y	3.6/.5
15	0.25	2.84	38.87	7.7 Y	3.8/.4
20	0.48	3.61	38.39	6.7 Y	3.7/.5
25	0.35	3.36	38.28	7.3 Y	3.7/.5
30	0.03	2.13	36.17	8.9 Y	3.5/.3
35	0.26	2.96	37.8	7.7 Y	3.7/.4

Cruise No: 2007802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1499.11
3	1462.936
4	1451.841
5	1484.062
6	1482.196
7	1488.441
8	1491.181
9	1491.997
10	1494.232
11	1491.997
12	1489.769
13	1491.997
14	1493.114
15	1493.114
16	1492.964
17	1496.474
18	1497.598
19	1498.198
20	1493.862
21	1493.343
22	1493.792
23	1494.241
24	1494.54
25	1494.69
26	1494.989
27	1496.557
28	1496.557
29	1496.557
30	1497.678
31	1498.801
32	1501.051
33	1502.029
34	1504.289
35	1500.901
36	1504.138
37	1506.184
38	1502.934
39	1506.526
40	1512.855

Cruise No: 2007802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1448.01		9.58
18	1456.27		9.79
30	1461.83		9.94

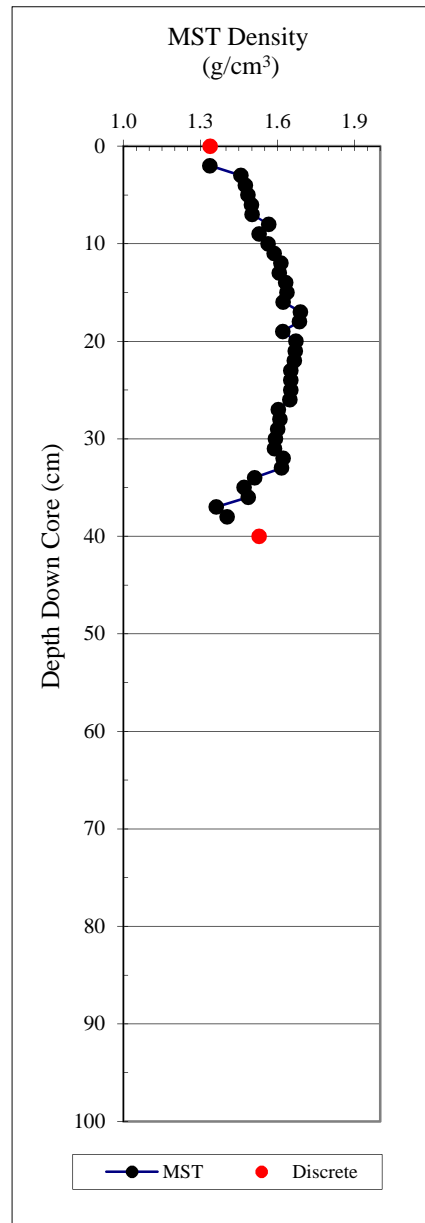
Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1			
2	1.3369	0.001	0.00
3	1.4578	0.040	0.04
4	1.4752	0.044	0.08
5	1.4847	0.045	0.13
6	1.4985	0.046	0.18
7	1.5016	0.048	0.22
8	1.566	0.051	0.28
9	1.5286	0.051	0.33
10	1.5632	0.053	0.38
11	1.5876	0.055	0.43
12	1.6136	0.057	0.49
13	1.6066	0.058	0.55
14	1.6317	0.059	0.61
15	1.6373	0.060	0.67
16	1.6223	0.061	0.73
17	1.6899	0.064	0.79
18	1.6859	0.063	0.86
19	1.6208	0.061	0.92
20	1.6724	0.062	0.98
21	1.6694	0.063	1.04
22	1.6655	0.063	1.11
23	1.6515	0.062	1.17
24	1.6522	0.062	1.23
25	1.6526	0.062	1.29
26	1.6487	0.060	1.35
27	1.6036	0.058	1.41
28	1.6101	0.057	1.47
29	1.6008	0.057	1.52
30	1.5918	0.056	1.58
31	1.5879	0.056	1.64
32	1.6219	0.058	1.69
33	1.6163	0.056	1.75
34	1.5111	0.049	1.80
35	1.4706	0.045	1.84
36	1.4863	0.042	1.89
37	1.3612	0.037	1.92
38	1.4036	0.618	2.54



Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.338	0.505	81.366	2.708	4.366	62.282	165.123
** 40.00	1.529	0.850	66.301	2.523	1.967	44.403	79.867

Cruise No: 2007802

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	10
6	10
7	11
8	12
9	13
10	13
11	13
12	14
13	10
14	14
15	15
16	15
17	15
18	16
19	15
20	15
21	15
22	15
23	15
24	15
25	15
26	15
27	15
28	14
29	14
30	14
31	13
32	13
33	13

Cruise No: 2007802

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.695
2	1.485
3	1.166
4	0.884
5	0.715
6	0.632
7	0.593
8	0.575
9	0.568
10	0.566
11	0.566
12	0.568
13	0.572
14	0.577
15	0.582
16	0.590
17	0.594
18	0.597
19	0.599
20	0.602
21	0.603
22	0.603
23	0.603
24	0.603
25	0.603
26	0.603
27	0.602
28	0.601
29	0.599
30	0.596
31	0.593
32	0.592
33	0.591
34	0.593
35	0.602
36	0.624
37	0.670
38	0.755

Cruise No: 2007802

Station: 44

Sample Type: Push Core

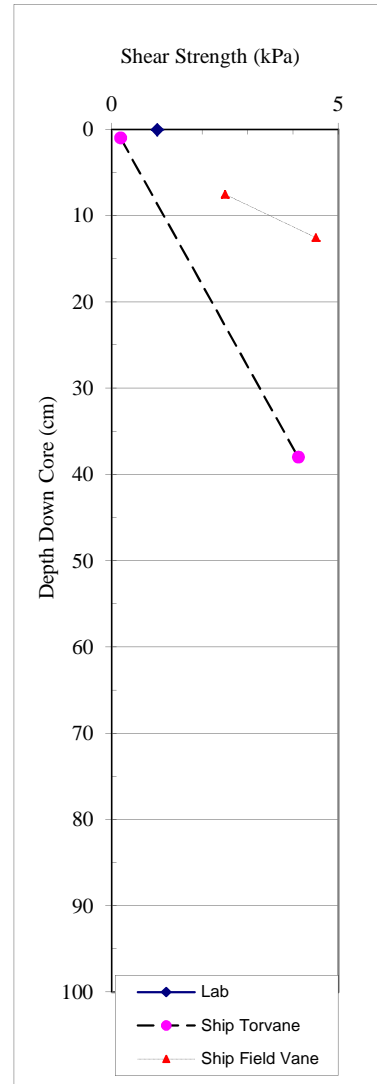
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.00	1.338	0.505	81.366	2.708	4.366	62.282	165.123
** 40.00	1.529	0.850	66.301	2.523	1.967	44.403	79.867

Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

	<u>Peak</u> <u>Undrained</u>	<u>Remoulded</u> <u>Undrained</u>	
<u>Depth Down</u> <u>Core (cm)</u>	<u>Shear Shear</u> <u>(kPa)</u>	<u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
NA	NA	NA	NA



Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Shipboard Torvane

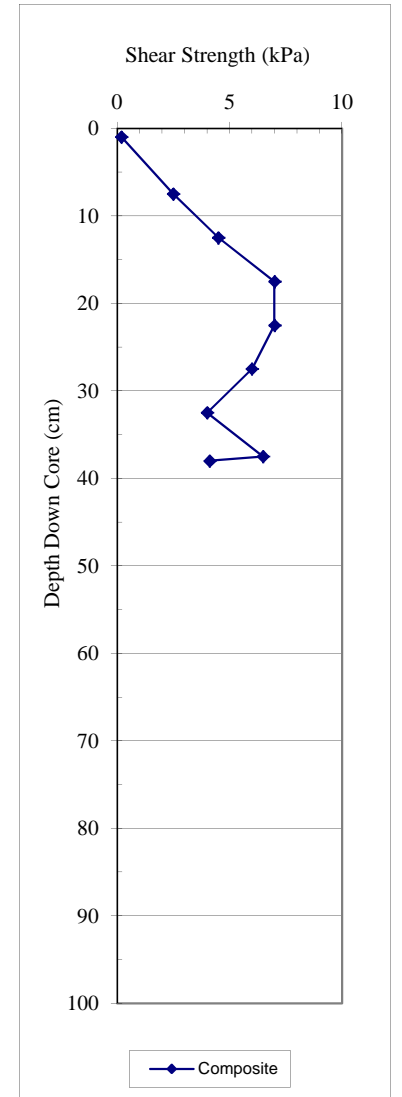
	<u>Undrained</u>
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
38	4.12

Cruise No: 2007802
 Station: 44
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

	<u>Peak</u> <u>Undrained</u>
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear Shear</u> <u>(kPa)</u>
7.5	2.50
12.5	4.50
17.5	7.00
22.5	7.00
27.5	6.00
32.5	4.00
37.5	6.50

Composite

	<u>Peak</u> <u>Undrained</u>	<u>Remoulded</u> <u>Undrained</u>
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear Shear</u> <u>(kPa)</u>	<u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
7.5	2.50	
12.5	4.50	
17.5	7.00	
22.5	7.00	
27.5	6.00	
32.5	4.00	
37.5	6.50	
38.0	4.12	



Cruise No: 2007802

Station: 44

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
NA	NA	NA	NA	NA

Cruise No: 2007802

Station: 44

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
0	
1	
2	1463.243
3	1476.729
4	1468.394
5	1484.424
6	1483.22
7	1485.325
8	1484.051
9	1485.023
10	1485.693
11	1486.667
12	1487.794
13	1488.922
14	1489.074
15	1491.337
16	1491.337
17	1492.471
18	1493.912
19	1490.964
20	1489.158
21	1493.992
22	1488.333
23	1486.233
24	1490.895
25	1492.027
26	1493.313
27	1491.047
28	1494.449
29	1491.047
30	1489.917
31	1487.661
32	1488.788
33	1489.917
34	1488.788
35	1486.384
36	1487.273
37	1478.176
38	1483.495

Cruise No: 2007802

Station: 44

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
NA	NA	NA	NA

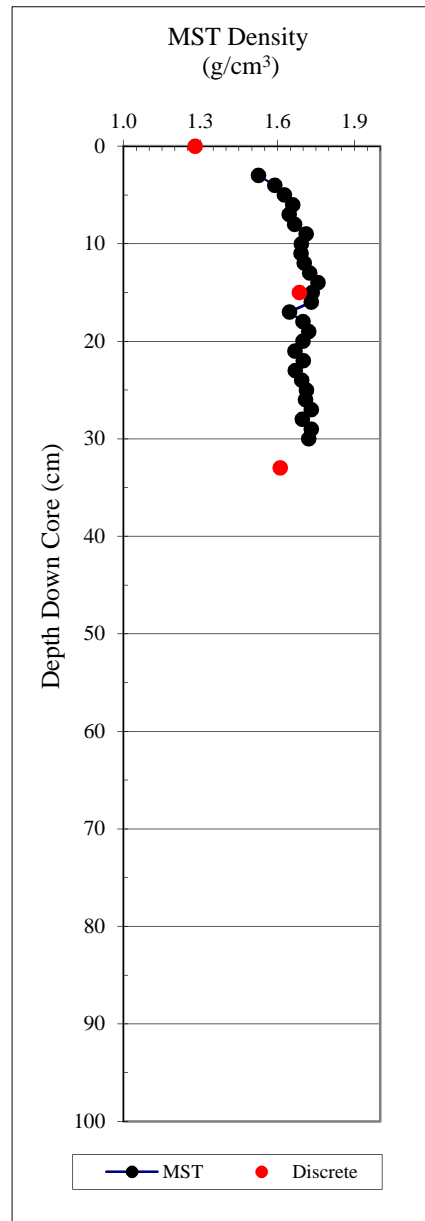
Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.5256	1.4716	1.47
4	1.5892	1.5256	3.00
5	1.6274	1.5892	4.59
6	1.6593	1.6274	6.21
7	1.6458	1.6593	7.87
8	1.667	1.6458	9.52
9	1.7118	1.667	11.19
10	1.6936	1.7118	12.90
11	1.6922	1.6936	14.59
12	1.7047	1.6922	16.28
13	1.7254	1.7047	17.99
14	1.7582	1.7254	19.71
15	1.7353	1.7582	21.47
16	1.7316	1.7353	23.21
17	1.6465	1.7316	24.94
18	1.6989	1.6465	26.59
19	1.7224	1.6989	28.28
20	1.6998	1.7224	30.01
21	1.6686	1.6998	31.71
22	1.7007	1.6686	33.37
23	1.6699	1.7007	35.08
24	1.6938	1.6699	36.75
25	1.7137	1.6938	38.44
26	1.7098	1.7137	40.15
27	1.732	1.7098	41.86
28	1.6969	1.732	43.59
29	1.7324	1.6969	45.29
30	1.7219	1.7324	47.02
31	1.4525	1.7219	48.75
32	1.2422	1.4525	50.20
33	1.201		



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.279	0.491	77.011	2.135	3.350	61.635	160.656
15.0	1.686	1.034	63.613	2.842	1.748	38.646	62.989
** 33.0	1.611	0.973	62.307	2.582	1.653	39.601	65.566

Cruise No: 2007802

Station: 45

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
5	14
6	15
7	16
8	17
9	17
10	17
11	18
12	18
13	18
14	18
15	18
16	18
17	18
18	18
19	17
20	18
21	17
22	18
23	18
24	17
25	17
26	18
27	18
28	17

Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.743
2	1.571
3	1.253
4	0.962
5	0.774
6	0.676
7	0.632
8	0.614
9	0.612
10	0.614
11	0.620
12	0.627
13	0.630
14	0.633
15	0.634
16	0.634
17	0.634
18	0.634
19	0.633
20	0.633
21	0.636
22	0.638
23	0.641
24	0.640
25	0.638
26	0.638
27	0.640
28	0.644
29	0.652
30	0.671
31	0.710
32	0.781
33	0.913

Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0.0	1.279	0.491	77.011	2.135	3.350	61.635	160.656
15.0	1.686	1.034	63.613	2.842	1.748	38.646	62.989
** 33.0	1.611	0.973	62.307	2.582	1.653	39.601	65.566

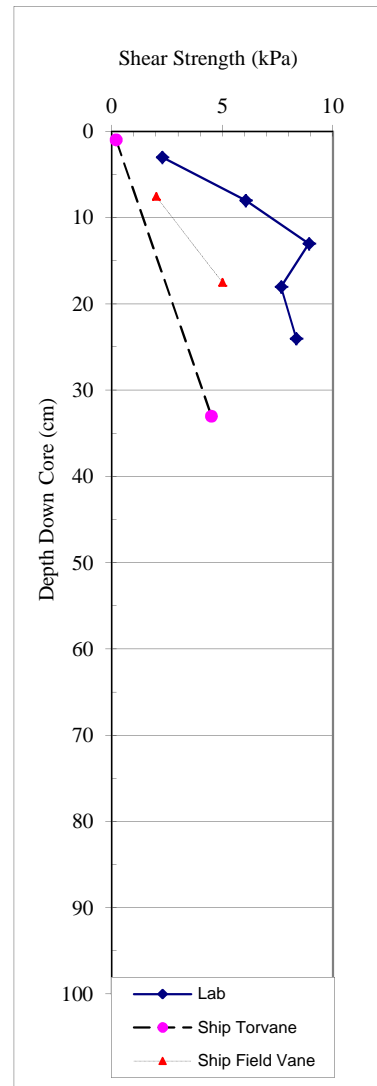
Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.28		
8	6.05	3.20	1.89
13	8.91		
18	7.65	1.83	4.19
24	8.34		
29	9.82	2.40	4.10



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
33	4.51

Cruise No: 2007802

Station: 45

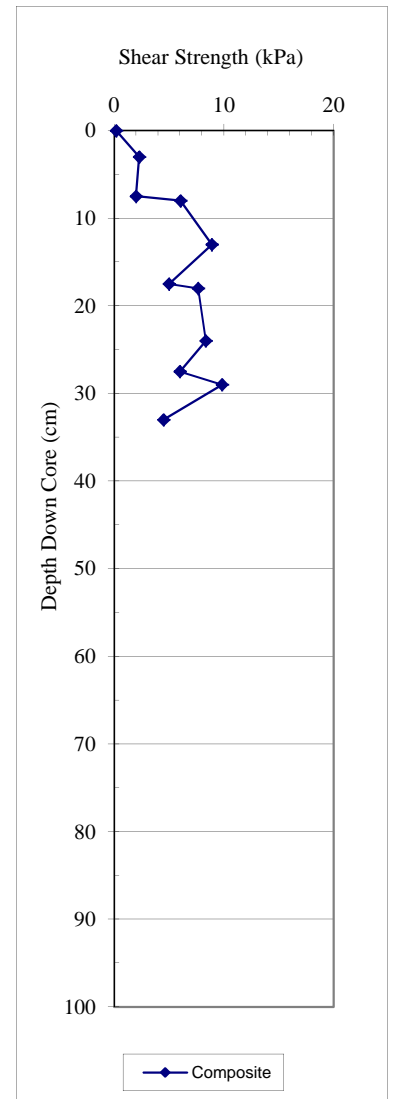
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	2.00
17.5	5.00
27.5	6.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
0.0	0.20	
3	2.28	
7.5	2.00	
8	6.05	3.20
13	8.91	
17.5	5.00	
18	7.65	1.83
24	8.34	
27.5	6.00	
29	9.82	2.40
33	4.51	



Cruise No: 2007802

Station: 45

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.28	2.44	39.9	7.3 Y 3.9/.4
10	0.01	1.63	42.89	8.8 Y 4.2/.2
15	0.1	2.45	36.21	8.5 Y 3.5/.4
20	-0.06	1.6	37.76	9.6 Y 3.7/.3
25	0.02	2.04	37.79	8.9 Y 3.7/.3
30	-0.01	2.28	37.93	9.0 Y 3.7/.4

Cruise No: 2007802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1482.7
4	1479.1
5	1512.8
6	1510.5
7	1510.2
8	1511.0
9	1513.3
10	1514.5
11	1515.7
12	1516.8
13	1519.1
14	1521.5
15	1520.3
16	1515.7
17	1511.0
18	1512.2
19	1513.3
20	1512.2
21	1509.9
22	1511.0
23	1511.0
24	1510.0
25	1512.5
26	1515.0
27	1517.3
28	1517.3
29	1517.3
30	1519.4
31	1520.6
32	1518.5
33	1531.8

Cruise No: 2007802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1461.83		7.74
24	1464.62		7.98

Cruise No: 2007802

Station: 60

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

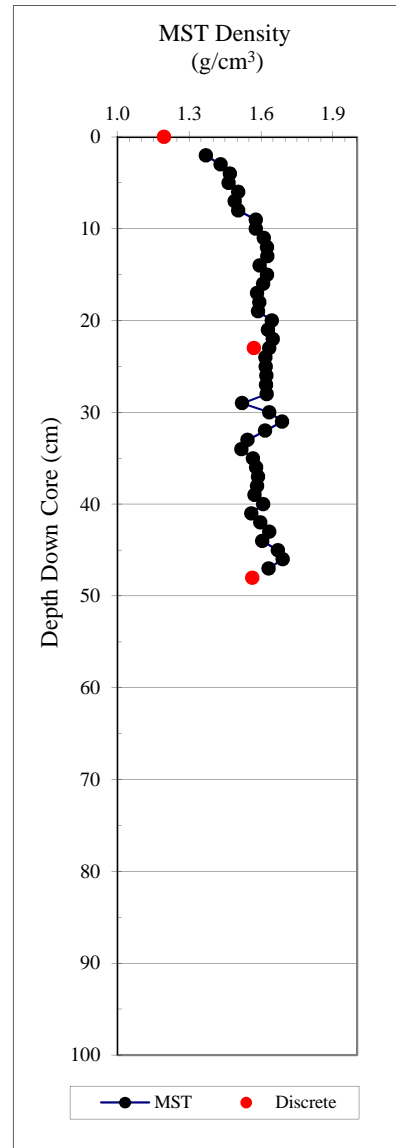
Station: 60

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.370
3	1.431
4	1.469
5	1.465
6	1.505
7	1.490
8	1.505
9	1.578
10	1.579
11	1.612
12	1.625
13	1.626
14	1.594
15	1.625
16	1.609
17	1.584
18	1.593
19	1.588
20	1.645
21	1.629
22	1.649
23	1.634
24	1.618
25	1.619
26	1.622
27	1.621
28	1.624
29	1.521
30	1.635
31	1.688
32	1.617
33	1.544
34	1.518
35	1.566
36	1.580
37	1.587
38	1.583
39	1.573
40	1.608
41	1.559
42	1.596
43	1.634
44	1.605
45	1.670
46	1.690
47	1.632



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.195	0.415	76.148	1.740	3.193	65.270	187.937
23	1.570	0.866	68.760	2.773	2.201	44.837	81.281
** 48	1.564	0.914	63.501	2.503	1.740	41.583	71.182

Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	7.00
4	9.00
5	10.00
6	11.00
7	12.00
8	14.00
9	14.00
10	14.00
11	15.00
12	16.00
13	16.00
14	16.00
15	16.00
16	16.00
17	15.00
18	15.00
19	16.00
20	16.00
21	16.00
22	16.00
23	16.00
24	17.00
25	16.00
26	17.00
27	16.00
28	17.00
29	17.00
30	17.00
31	16.00
32	17.00
33	16.00
34	16.00
35	16.00
36	15.00
37	16.00
38	15.00
39	16.00
40	15.00
41	15.00
42	15.00
43	15.00
44	14.00
45	14.00
46	13.00
47	11.00
48	8.00

Cruise No: 2007802

Station: 60

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.775
2	1.657
3	1.321
4	0.964
5	0.746
6	0.637
7	0.586
8	0.565
9	0.559
10	0.560
11	0.563
12	0.570
13	0.578
14	0.587
15	0.596
16	0.603
17	0.607
18	0.609
19	0.609
20	0.610
21	0.612
22	0.614
23	0.614
24	0.615
25	0.614
26	0.612
27	0.610
28	0.608
29	0.605
30	0.601
31	0.595
32	0.592
33	0.592
34	0.592
35	0.590
36	0.589
37	0.589
38	0.591
39	0.595
40	0.598
41	0.599
42	0.602
43	0.609
44	0.624
45	0.649
46	0.689
47	0.759
48	0.887

Cruise No: 2007802

Station: 60

Sample Type: Push Core

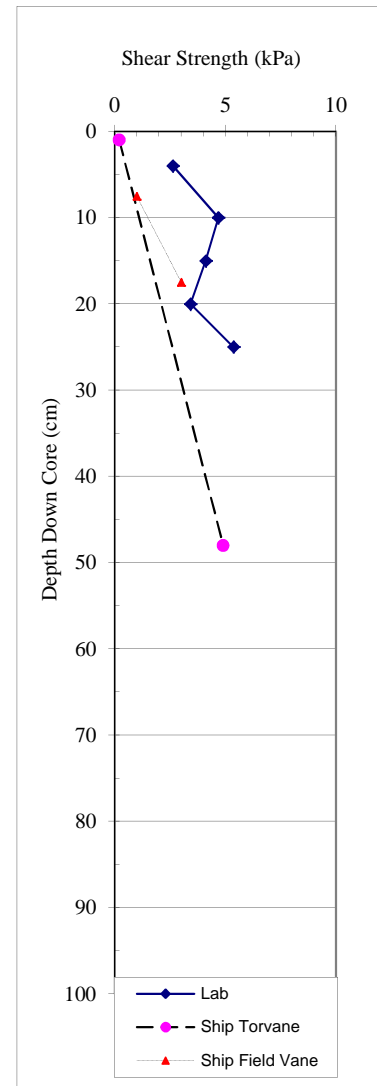
Data Type: Discrete Laboratory Measurements

** Shipboard

	Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
**	0	1.195	0.415	76.148	1.740	3.193	65.270	187.937
	23	1.570	0.866	68.760	2.773	2.201	44.837	81.281
**	48	1.564	0.914	63.501	2.503	1.740	41.583	71.182

Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
4	2.63	2.63	1.00
10	4.68	2.40	1.95
15	4.11		
20	3.43	1.14	3.00
25	5.37	1.60	3.36
30	5.25	1.71	3.07
35	3.77	0.91	4.12
40	3.54	1.00	3.56
45	6.42		



Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Shipboard Torvane

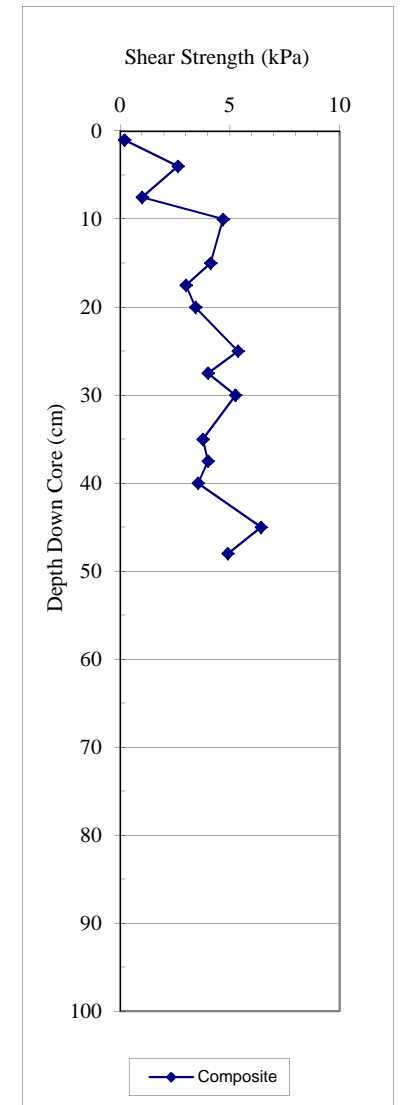
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
1.0	0.20
48	4.90

Cruise No: 2007802
 Station: 60
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
7.5	1.00
17.5	3.00
27.5	4.00
37.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
4	2.63	2.63
7.5	1.00	
10	4.68	2.40
15	4.11	
17.5	3.00	
20	3.43	1.14
25	5.37	1.60
27.5	4.00	
30	5.25	1.71
35	3.77	0.91
37.5	4.00	
40	3.54	1.00
45	6.42	
48	4.90	



Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.67	2.85	41.12	4.6 Y 4.0/4
10	1.67	6.72	38.54	4.4 Y 3.7/9
15	-0.16	1.68	37.16	0.5 GY 3.6/3
20	-0.22	1.19	33.85	1.7 GY 3.3/2
25	-0.4	1.96	35.07	2.2 GY 3.4/4
30	-0.25	1.12	39.15	2.0 GY 3.8/2
35	-0.07	1.89	36.97	9.7 Y 3.6/3
40	0.16	2.58	37.76	8.2 Y 3.7/4
45	0.14	1.69	41.48	7.9 Y 4.0/2

Cruise No: 2007802

Station: 60

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1476.61
3	1466.57
4	1463.41
5	1478.56
6	1477.55
7	1480.30
8	1480.00
9	1479.70
10	1480.80
11	1484.10
12	1486.31
13	1487.42
14	1485.06
15	1483.95
16	1485.06
17	1485.06
18	1483.95
19	1482.85
20	1485.06
21	1486.16
22	1485.06
23	1483.80
24	1484.91
25	1481.60
26	1482.70
27	1482.85
28	1482.85
29	1481.10
30	1492.31
31	1488.97
32	1485.65
33	1480.15
34	1480.15
35	1481.25
36	1480.45
37	1478.55
38	1478.55
39	1479.65
40	1480.74
41	1481.84
42	1485.65
43	1484.76
44	1484.38
45	1490.65
46	1494.37

Cruise No: 2007802

Station: 60

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
13	1448.01		7.77
23	1450.75		7.96
33	1445.28		8.22
42	1450.75		8.46

Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

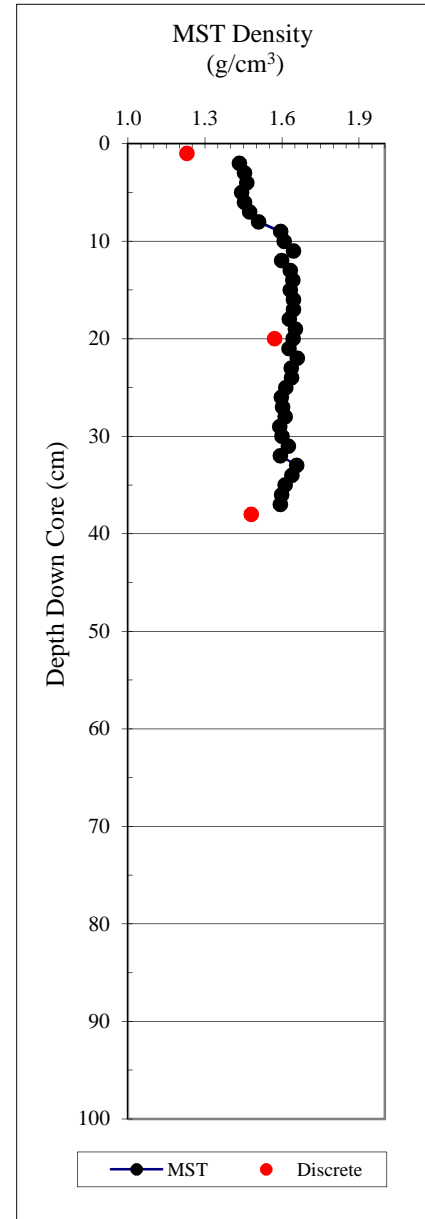
Station: 61

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.434
3	1.454
4	1.462
5	1.443
6	1.453
7	1.474
8	1.508
9	1.595
10	1.608
11	1.645
12	1.598
13	1.632
14	1.642
15	1.632
16	1.644
17	1.645
18	1.628
19	1.652
20	1.644
21	1.628
22	1.659
23	1.636
24	1.638
25	1.614
26	1.597
27	1.602
28	1.613
29	1.591
30	1.600
31	1.625
32	1.593
33	1.657
34	1.639
35	1.612
36	1.599
37	1.593



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	5.00
3	7.00
4	7.00
5	8.00
6	9.00
7	10.00
8	12.00
9	13.00
10	14.00
11	14.00
12	15.00
13	15.00
14	16.00
15	16.00
16	16.00
17	16.00
18	16.00
19	16.00
20	16.00
21	16.00
22	16.00
23	17.00
24	16.00
25	17.00
26	16.00
27	16.00
28	16.00
29	16.00
30	16.00
31	16.00
32	16.00
33	15.00
34	15.00
35	13.00
36	12.00
37	9.00
38	7.00

Cruise No: 2007802

Station: 61

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.657
2	1.418
3	1.108
4	0.851
5	0.698
6	0.626
7	0.594
8	0.576
9	0.563
10	0.557
11	0.558
12	0.563
13	0.572
14	0.579
15	0.586
16	0.592
17	0.597
18	0.599
19	0.600
20	0.601
21	0.600
22	0.598
23	0.597
24	0.594
25	0.594
26	0.592
27	0.592
28	0.591
29	0.590
30	0.589
31	0.589
32	0.594
33	0.606
34	0.624
35	0.657
36	0.715
37	0.820
38	1.011

Cruise No: 2007802

Station: 61

Sample Type: Push Core

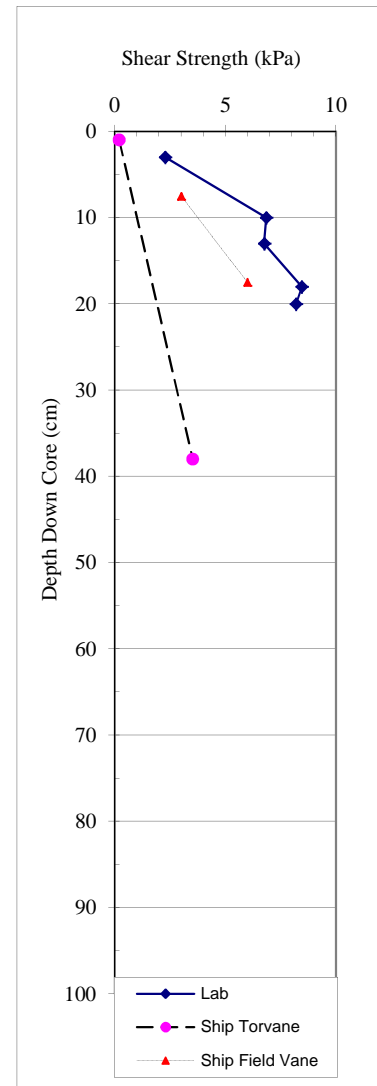
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802
 Station: 61
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	3	2.28	
10	6.85	1.37	5.00
13	6.76	1.77	3.81
18	8.45	2.17	3.89
20	8.20	2.44	3.36
23	8.00	1.33	6.02
28	6.42	1.33	4.83
33	5.54	3.08	1.80



Cruise No: 2007802
 Station: 61
 Sample Type: Push Core
 Data Type: Shipboard Torvane

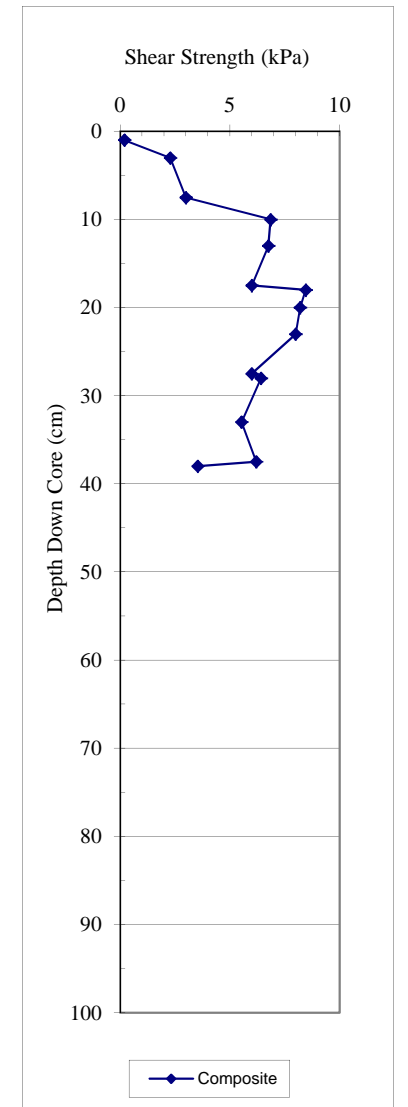
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
38	3.53

Cruise No: 2007802
 Station: 61
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.00
17.5	6.00
27.5	6.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	1.0	0.20
3	2.28	2.17
7.5	3.00	
10	6.85	1.37
13	6.76	1.77
17.5	6.00	
18	8.45	2.17
20	8.20	2.44
23	8.00	1.33
27.5	6.00	
28	6.42	1.33
33	5.54	3.08
37.5	6.20	
38	3.53	



Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.23	5.33	39.53	4.6 Y	3.8/.7
10	0.19	2.29	39.58	7.8 Y	3.8/.3
15	0.3	2.79	37.98	7.6 Y	3.7/.4
20	0.15	1.88	39.93	8.0 Y	3.9/.3
25	0.17	1.76	43.96	7.4 Y	4.3/.3
30	0.14	2.29	36.79	8.3 Y	3.6/.4
35	0.1	2.04	39.96	8.3 Y	3.9/.3

Cruise No: 2007802

Station: 61

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1446.99
3	1448.63
4	1442.88
5	1463.39
6	1456.14
7	1463.04
8	1465.83
9	1466.77
10	1466.62
11	1469.87
12	1470.95
13	1472.04
14	1474.22
15	1472.04
16	1472.04
17	1470.95
18	1470.95
19	1469.87
20	1469.87
21	1470.02
22	1469.08
23	1467.50
24	1466.86
25	1466.86
26	1468.09
27	1467.16
28	1466.23
29	1466.52
30	1465.44
31	1466.52
32	1466.52
33	1466.52
34	1468.68
35	1468.73
36	1464.23
37	1471.40
38	1480.09

Cruise No: 2007802

Station: 61

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1450.75		9.48
22	1456.27		9.69
31	1453.51		9.81

Cruise No: 2007802

Station: 62

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

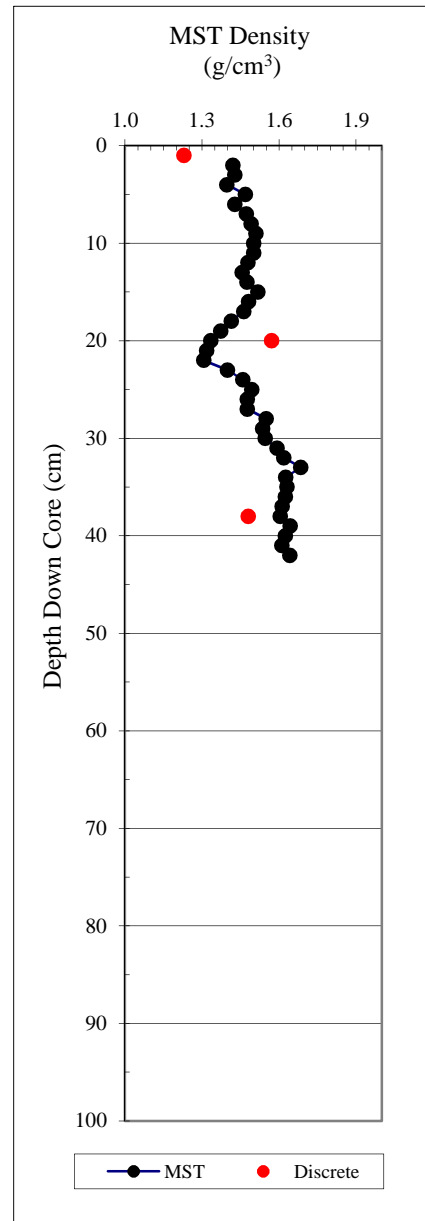
Station: 62

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.421
3	1.428
4	1.397
5	1.469
6	1.428
7	1.472
8	1.491
9	1.510
10	1.502
11	1.502
12	1.479
13	1.457
14	1.475
15	1.518
16	1.482
17	1.462
18	1.413
19	1.373
20	1.334
21	1.318
22	1.306
23	1.399
24	1.459
25	1.493
26	1.477
27	1.476
28	1.550
29	1.536
30	1.546
31	1.593
32	1.618
33	1.685
34	1.625
35	1.631
36	1.625
37	1.613
38	1.605
39	1.643
40	1.624
41	1.611
42	1.643



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	6.00
4	8.00
5	8.00
6	9.00
7	9.00
8	9.00
9	10.00
10	9.00
11	9.00
12	10.00
13	10.00
14	10.00
15	9.00
16	9.00
17	8.00
18	8.00
19	6.00
20	5.00
21	6.00
22	6.00
23	7.00
24	8.00
25	8.00
26	10.00
27	10.00
28	11.00
29	11.00
30	12.00
31	13.00
32	13.00
33	14.00
34	14.00
35	14.00
36	14.00
37	13.00
38	13.00
39	13.00
40	12.00
41	11.00
42	9.00
43	7.00

Cruise No: 2007802

Station: 62

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.541
2	1.367
3	1.122
4	0.870
5	0.701
6	0.606
7	0.558
8	0.533
9	0.523
10	0.518
11	0.516
12	0.517
13	0.517
14	0.517
15	0.516
16	0.514
17	0.512
18	0.508
19	0.504
20	0.502
21	0.501
22	0.502
23	0.502
24	0.501
25	0.502
26	0.506
27	0.513
28	0.521
29	0.529
30	0.537
31	0.547
32	0.559
33	0.571
34	0.581
35	0.590
36	0.597
37	0.600
38	0.602
39	0.607
40	0.617
41	0.641
42	0.689
43	0.791

Cruise No: 2007802

Station: 62

Sample Type: Push Core

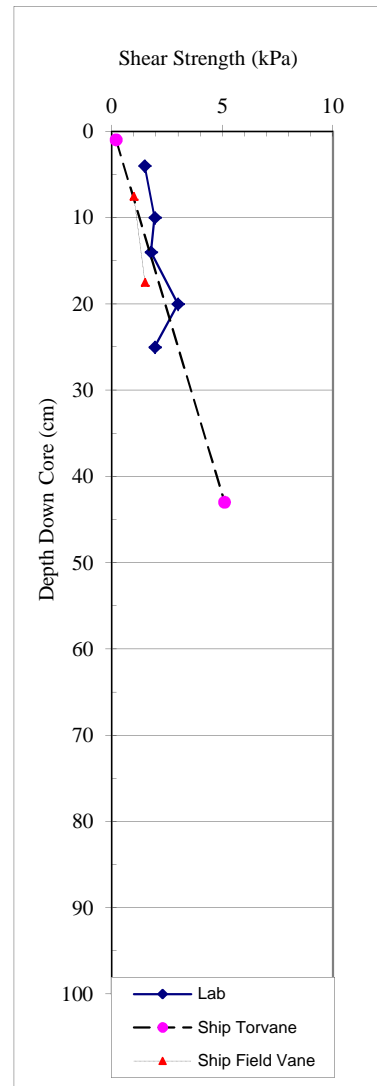
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.230	0.389	82.114	2.175	4.591	68.373	216.184
20	1.571	0.853	70.166	2.858	2.352	45.732	84.269
** 38	1.480	0.808	65.609	2.349	1.908	45.405	83.165

Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	1.49		
10	1.94		
14	1.77		
20	2.99		
25	1.94	1.37	1.42
30	3.77	2.40	1.57
35	4.32	1.00	4.33
40	5.98	4.10	1.46



Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Shipboard Torvane

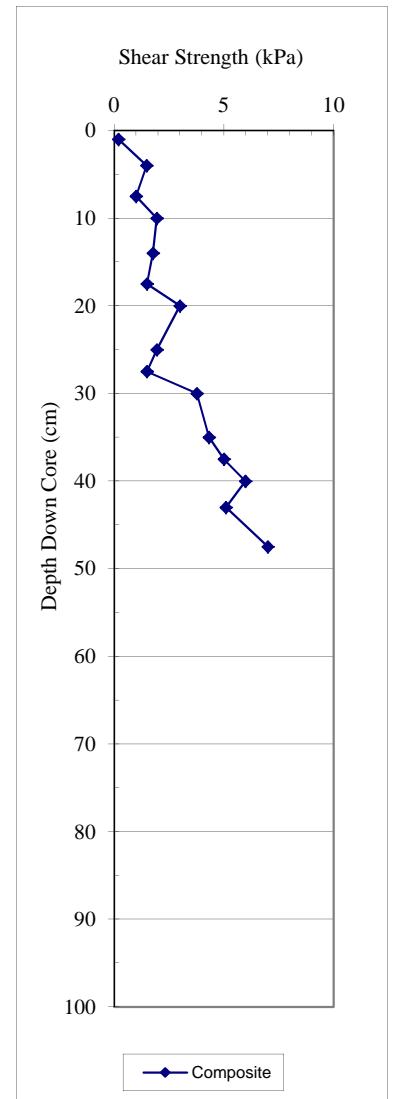
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
43	5.10

Cruise No: 2007802
 Station: 62
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
17.5	1.50
27.5	1.50
37.5	5.00
47.5	7.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1.0	0.20	
4	1.49	
7.5	1.00	
10	1.94	
14	1.77	
17.5	1.50	
20	2.99	
25	1.94	1.37
27.5	1.50	
30	3.77	2.40
35	4.32	1.00
37.5	5.00	
40	5.98	4.10
43	5.10	
47.5	7.00	



Cruise No: 2007802

Station: 62

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.13	5.19	39.67	4.8 Y	3.8/.7
10	1.8	6.83	40.82	4.0 Y	3.9/.9
15	0.81	4.41	38.43	5.7 Y	3.7/.6
20	-0.03	-0.44	21.98	6.9 PB	2.1/.1
25	-0.59	-0.29	32.44	7.5 BG	3.2/.1
30	0.61	2.93	41.74	5.0 Y	4.0/.4
35	0.05	2.41	36.83	9.0 Y	3.6/.4
40	0.05	1.7	38.32	8.9 Y	3.7/.3

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1437.92
3	1438.84
4	1442.04
5	1447.28
6	1443.20
7	1442.71
8	1441.06
9	1438.65
10	1439.56
11	1440.62
12	1441.68
13	1441.68
14	1440.62
15	1439.56
16	1439.56
17	1440.91
18	1443.48
19	1444.99
20	1447.86
21	1453.67
22	1450.89
23	1446.90
24	1444.00
25	1443.24
26	1442.62
27	1442.91
28	1442.14
29	1441.38
30	1441.53
31	1442.88
32	1446.06
33	1449.26
34	1451.40
35	1449.26
36	1447.13
37	1447.13
38	1447.13
39	1447.79
40	1448.60
41	1445.58
42	1444.35
43	1450.18

Cruise No: 2007802

Station: 62

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1439.85		9.94
18	1445.28		10.25
28	1437.14		10.53
37	1448.01		10.79

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

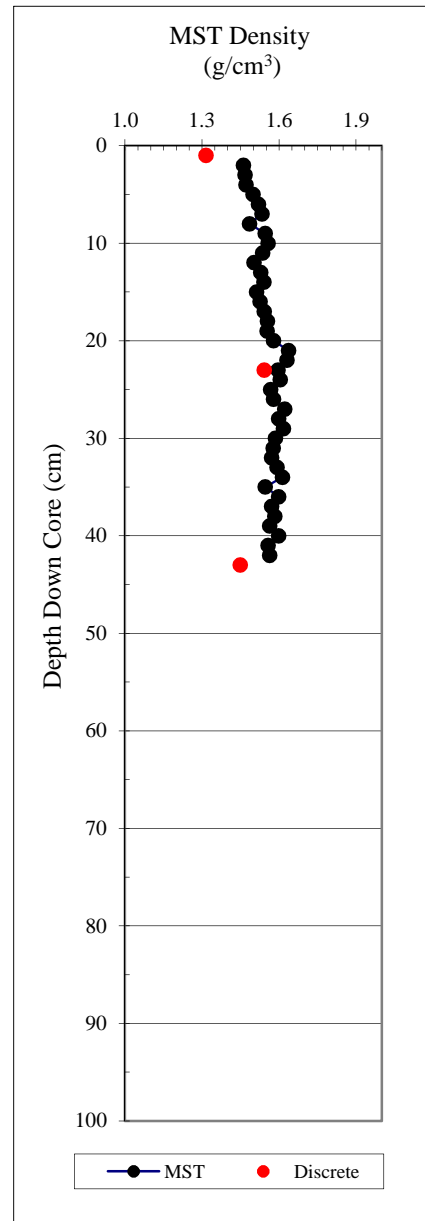
Station: 63

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.461
3	1.468
4	1.472
5	1.499
6	1.519
7	1.533
8	1.486
9	1.546
10	1.558
11	1.536
12	1.502
13	1.528
14	1.541
15	1.513
16	1.526
17	1.542
18	1.554
19	1.553
20	1.578
21	1.638
22	1.631
23	1.597
24	1.605
25	1.568
26	1.578
27	1.622
28	1.598
29	1.617
30	1.586
31	1.577
32	1.570
33	1.592
34	1.613
35	1.546
36	1.599
37	1.571
38	1.583
39	1.563
40	1.598
41	1.557
42	1.564



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.316	0.463	83.312	2.772	4.992	64.838	184.396
23	1.542	0.806	71.886	2.868	2.557	47.730	91.313
** 43	1.449	0.753	67.966	2.351	2.122	48.029	92.414

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	10.00
6	11.00
7	11.00
8	12.00
9	12.00
10	13.00
11	13.00
12	13.00
13	13.00
14	13.00
15	13.00
16	13.00
17	13.00
18	13.00
19	13.00
20	14.00
21	15.00
22	14.00
23	15.00
24	15.00
25	15.00
26	15.00
27	15.00
28	15.00
29	15.00
30	15.00
31	14.00
32	15.00
33	14.00
34	14.00
35	14.00
36	13.00
37	13.00
38	14.00
39	12.00
40	12.00
41	10.00
42	8.00
43	6.00

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.636
2	1.492
3	1.222
4	0.935
5	0.732
6	0.628
7	0.578
8	0.554
9	0.542
10	0.537
11	0.536
12	0.537
13	0.540
14	0.545
15	0.549
16	0.552
17	0.556
18	0.561
19	0.566
20	0.570
21	0.571
22	0.571
23	0.571
24	0.572
25	0.573
26	0.575
27	0.576
28	0.576
29	0.575
30	0.574
31	0.572
32	0.572
33	0.571
34	0.572
35	0.570
36	0.569
37	0.571
38	0.576
39	0.585
40	0.607
41	0.646
42	0.728
43	0.887

Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.316	0.463	83.312	2.772	4.992	64.838	184.396
23	1.542	0.806	71.886	2.868	2.557	47.730	91.313
** 43	1.449	0.753	67.966	2.351	2.122	48.029	92.414

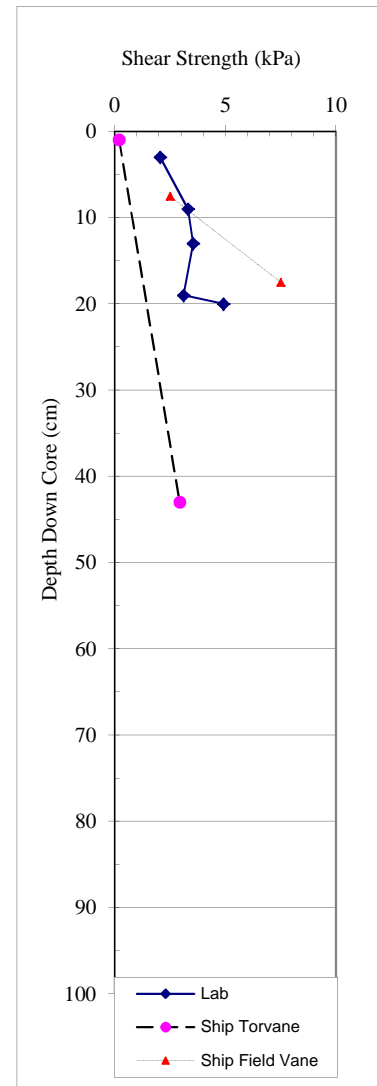
Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	2.06	0.91	2.25
9	3.31	1.60	2.07
13	3.54	1.22	2.91
19	3.10	2.33	1.33
20	4.91	2.28	2.15
25	8.22	4.11	2.00
30	7.20	1.99	3.61
35	5.54	1.77	3.12
40	5.60	2.74	2.04



Cruise No: 2007802

Station: 63

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
1.0	0.20
43	2.94

Cruise No: 2007802

Station: 63

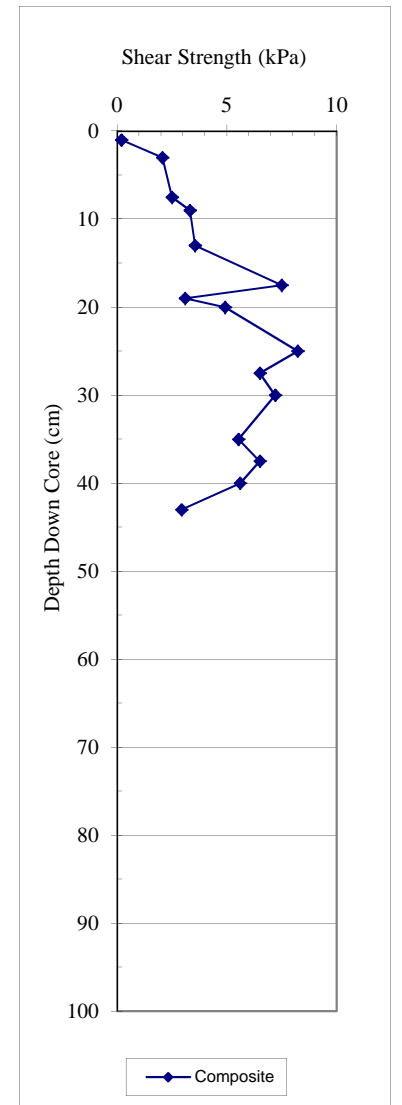
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.50
17.5	7.50
27.5	6.50
37.5	6.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	2.06	0.91
7.5	2.50	
9	3.31	1.60
13	3.54	1.22
17.5	7.50	
19	3.10	2.33
20	4.91	2.28
25	8.22	4.11
27.5	6.50	
30	7.20	1.99
35	5.54	1.77
37.5	6.50	
40	5.60	2.74
43	2.94	



Cruise No: 2007802

Station: 63

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.51	4.7	38.06	7.3 Y 3.7/.7
10	-0.01	2.21	36.27	9.2 Y 3.5/.4
15	-0.01	1.8	40.28	9.0 Y 3.9/.3
20	0.54	3.24	40.6	5.9 Y 3.9/.5
25	-0.27	1.44	38.46	1.5 GY 3.7/.3
30	0.33	3.16	37.9	7.4 Y 3.7/.5
35	0.39	3.46	38.43	7.2 Y 3.7/.5
40	0.58	3.46	41.6	5.9 Y 4.0/.5

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1458.44
3	1457.46
4	1465.25
5	1468.58
6	1466.86
7	1468.30
8	1470.89
9	1470.94
10	1468.95
11	1469.75
12	1468.50
13	1467.26
14	1466.96
15	1467.91
16	1466.67
17	1467.46
18	1467.16
19	1468.11
20	1468.90
21	1470.80
22	1472.70
23	1471.30
24	1470.20
25	1470.85
26	1469.60
27	1470.70
28	1470.85
29	1471.00
30	1469.90
31	1470.05
32	1468.96
33	1468.96
34	1470.35
35	1469.70
36	1469.05
37	1469.20
38	1471.55
39	1471.55
40	1472.40
41	1468.11
42	1473.47
43	1477.09

Cruise No: 2007802

Station: 63

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1434.45		7.25
20	1439.85		7.58
30	1445.28		7.85

Cruise No: 2007802

Station: 64

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

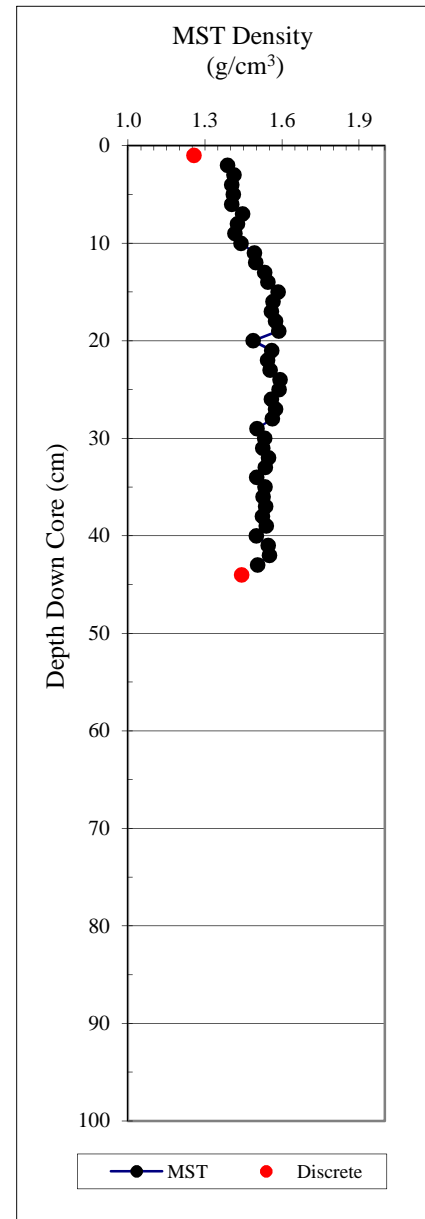
Station: 64

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.388
3	1.413
4	1.404
5	1.411
6	1.404
7	1.446
8	1.427
9	1.416
10	1.440
11	1.493
12	1.498
13	1.532
14	1.545
15	1.584
16	1.565
17	1.559
18	1.574
19	1.587
20	1.487
21	1.560
22	1.544
23	1.554
24	1.593
25	1.589
26	1.558
27	1.575
28	1.562
29	1.503
30	1.532
31	1.525
32	1.547
33	1.535
34	1.501
35	1.534
36	1.527
37	1.536
38	1.523
39	1.538
40	1.500
41	1.546
42	1.551
43	1.505



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.257	0.463	77.492	2.059	3.443	63.131	171.234
** 44	1.442	0.705	72.031	2.519	2.575	51.142	104.674

Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	6.00
3	7.00
4	8.00
5	8.00
6	9.00
7	10.00
8	10.00
9	10.00
10	11.00
11	11.00
12	13.00
13	13.00
14	13.00
15	14.00
16	14.00
17	14.00
18	14.00
19	14.00
20	14.00
21	14.00
22	15.00
23	14.00
24	14.00
25	14.00
26	15.00
27	15.00
28	14.00
29	14.00
30	13.00
31	14.00
32	14.00
33	13.00
34	13.00
35	13.00
36	13.00
37	13.00
38	13.00
39	12.00
40	12.00
41	11.00
42	10.00
43	9.00
44	6.00

Cruise No: 2007802

Station: 64

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.636
2	1.461
3	1.189
4	0.908
5	0.728
6	0.623
7	0.568
8	0.545
9	0.534
10	0.530
11	0.530
12	0.533
13	0.537
14	0.540
15	0.544
16	0.549
17	0.553
18	0.556
19	0.560
20	0.563
21	0.566
22	0.568
23	0.568
24	0.569
25	0.569
26	0.566
27	0.564
28	0.563
29	0.560
30	0.559
31	0.556
32	0.556
33	0.555
34	0.554
35	0.553
36	0.550
37	0.550
38	0.551
39	0.555
40	0.564
41	0.579
42	0.606
43	0.656
44	0.755

Cruise No: 2007802

Station: 64

Sample Type: Push Core

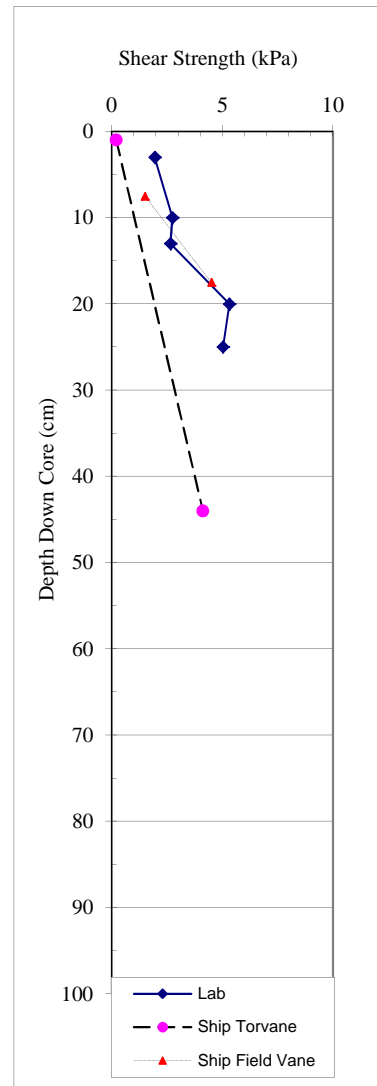
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.257	0.463	77.492	2.059	3.443	63.131	171.234
** 44	1.442	0.705	72.031	2.519	2.575	51.142	104.674

Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	1.94		
10	2.74	1.26	2.18
13	2.66		
20	5.32	3.21	1.66
25	5.03	2.06	2.44
30	3.54	2.74	1.29
35	4.10	1.33	3.08
40	4.65	3.10	1.50



Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Shipboard Torvane

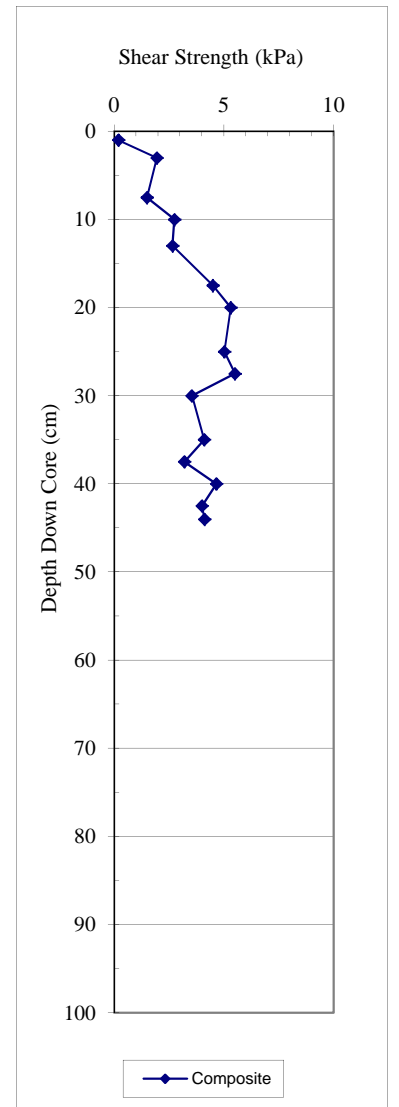
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
1.0	0.20
44	4.12

Cruise No: 2007802
 Station: 64
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	1.50
17.5	4.50
27.5	5.50
37.5	3.20
42.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	1.94	
7.5	1.50	
10	2.74	1.26
13	2.66	
17.5	4.50	
20	5.32	3.21
25	5.03	2.06
27.5	5.50	
30	3.54	2.74
35	4.10	1.33
37.5	3.20	
40	4.65	3.10
42.5	4.00	
44	4.12	



Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.86	4.8	36.31	5.7 Y	3.5/.7
10	0.45	3.13	42.06	6.2 Y	4.1/.4
15	0.18	2.28	37.54	7.8 Y	3.6/.3
20	0.31	3.34	37.21	7.8 Y	3.6/.5
25	0.37	3.03	39.93	7.0 Y	3.9/.4
30	0.52	3.72	37.93	6.7 Y	3.7/.5
35	0.49	3.06	41.7	6.0 Y	4.0/.4
40	0.34	2.98	36.48	7.4 Y	3.5/.5

Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1486.36
3	1495.59
4	1491.86
5	1490.75
6	1486.28
7	1486.56
8	1487.66
9	1492.07
10	1493.99
11	1488.76
12	1486.56
13	1490.01
14	1490.01
15	1488.76
16	1490.96
17	1492.07
18	1491.11
19	1493.47
20	1490.30
21	1490.60
22	1487.89
23	1488.33
24	1489.14
25	1488.99
26	1488.18
27	1487.09
28	1487.23
29	1486.14
30	1485.99
31	1484.89
32	1484.60
33	1485.55
34	1487.59
35	1487.30
36	1487.15
37	1487.95
38	1487.81
39	1488.02
40	1487.49
41	1487.62
42	1488.92
43	1489.35
44	1494.14

Cruise No: 2007802

Station: 64

Sample Type: **Push Core**

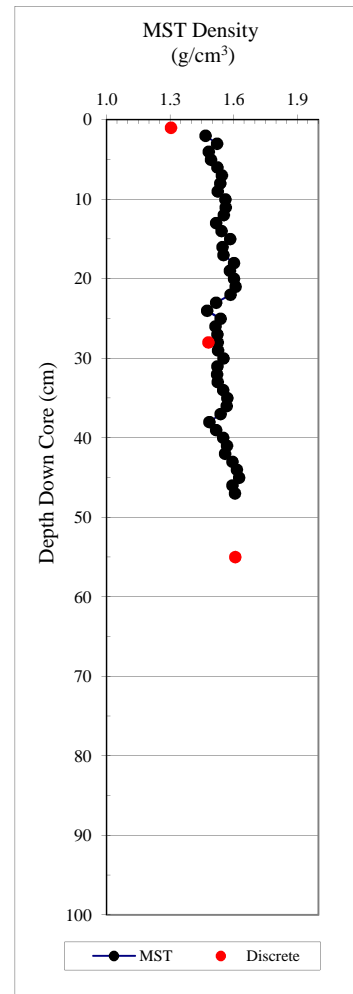
Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1439.85		10.31
20	1448.01		10.47
30	1445.28		10.73

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Laboratory MST Density

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Discrete Laboratory Measurements
 ** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.466
3	1.520
4	1.481
5	1.492
6	1.522
7	1.544
8	1.535
9	1.524
10	1.560
11	1.562
12	1.553
13	1.516
14	1.543
15	1.583
16	1.547
17	1.551
18	1.601
19	1.581
20	1.601
21	1.609
22	1.584
23	1.517
24	1.475
25	1.538
26	1.513
27	1.522
28	1.524
29	1.525
30	1.551
31	1.523
32	1.522
33	1.524
34	1.549
35	1.570
36	1.566
37	1.537
38	1.484
39	1.516
40	1.549
41	1.567
42	1.559
43	1.593
44	1.614
45	1.626
46	1.593
47	1.605
48	1.610
49	1.610
50	1.585
51	1.600
52	1.617
53	1.645
54	1.649
55	1.655



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.303	0.540	74.542	2.120	2.928	58.577	141.414
28	1.481	0.713	74.945	2.847	2.991	51.832	107.606
** 55	1.607	0.968	62.411	2.576	1.660	39.764	66.014

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	10.00
6	11.00
7	11.00
8	12.00
9	12.00
10	12.00
11	13.00
12	12.00
13	13.00
14	13.00
15	13.00
16	14.00
17	13.00
18	14.00
19	14.00
20	14.00
21	14.00
22	14.00
23	13.00
24	14.00
25	13.00
26	13.00
27	12.00
28	12.00
29	13.00
30	12.00
31	13.00
32	13.00
33	13.00
34	13.00
35	13.00
36	13.00
37	13.00
38	13.00
39	14.00
40	13.00
41	14.00
42	14.00
43	14.00
44	15.00
45	15.00
46	14.00
47	14.00
48	14.00
49	14.00
50	14.00
51	14.00
52	14.00
53	13.00
54	11.00
55	10.00

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.992
2	1.775
3	1.379
4	1.026
5	0.799
6	0.683
7	0.624
8	0.596
9	0.583
10	0.578
11	0.576
12	0.575
13	0.576
14	0.578
15	0.582
16	0.585
17	0.589
18	0.590
19	0.589
20	0.589
21	0.591
22	0.592
23	0.594
24	0.595
25	0.596
26	0.593
27	0.589
28	0.583
29	0.579
30	0.576
31	0.572
32	0.570
33	0.571
34	0.573
35	0.573
36	0.574
37	0.576
38	0.579
39	0.585
40	0.589
41	0.591
42	0.593
43	0.596
44	0.601
45	0.605
46	0.608
47	0.610
48	0.614
49	0.621
50	0.629
51	0.644
52	0.662
53	0.689
54	0.732
55	0.812

Cruise No: 2007802

Station: 65

Sample Type: Push Core

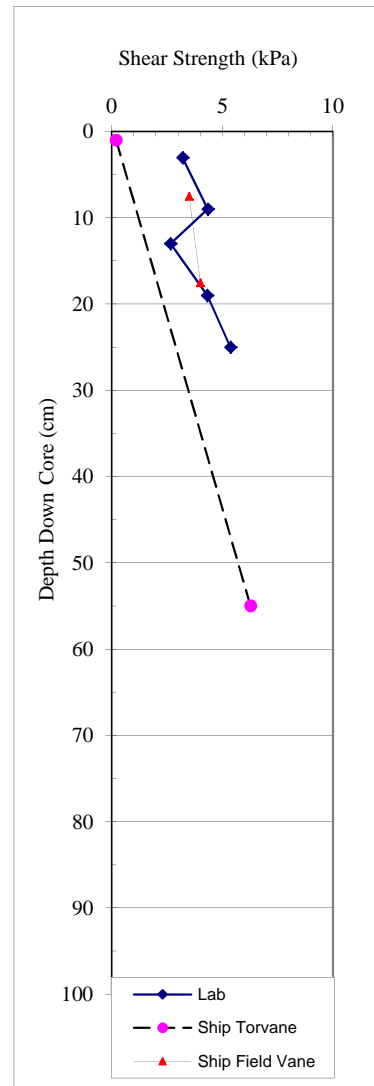
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.303	0.540	74.542	2.120	2.928	58.577	141.414
28	1.481	0.713	74.945	2.847	2.991	51.832	107.606
** 55	1.607	0.968	62.411	2.576	1.660	39.764	66.014

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
3	3.20	1.71	1.87
9	4.34	1.71	2.53
13	2.66	1.44	1.85
19	4.32	0.78	5.57
25	5.37	1.60	3.36
30	4.80	2.74	1.75
35	5.43		
40	6.20	1.00	6.22
43	6.28	2.40	2.62
49	5.14		
53	7.53	2.44	3.09



Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Shipboard Torvane

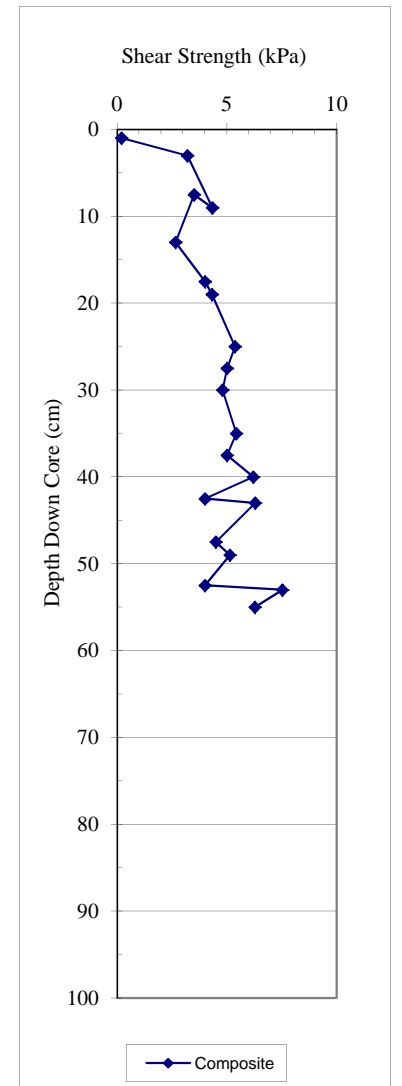
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> Shear Shear (kPa)
1.0	0.20
55	6.28

Cruise No: 2007802
 Station: 65
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	3.50
17.5	4.00
27.5	5.00
37.5	5.00
47.5	4.50
52.5	4.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
3	3.20	1.71
9	4.34	1.71
7.5	3.50	
13	2.66	1.44
17.5	4.00	
19	4.32	0.78
25	5.37	1.60
27.5	5.00	
30	4.80	2.74
35	5.43	
37.5	5.00	1.00
40	6.20	
42.5	4.00	
43	6.28	2.40
47.5	4.50	
49	5.14	
52.5	4.00	
53	7.53	2.44
55	6.28	



Cruise No: 2007802

Station: 65

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	-0.42	0.8	34.9	5.4 GY 3.4/.2
10	-0.02	1.78	42.73	9.1 Y 4.1/.3
15	-0.55	0.34	34.03	0.2 G 3.3/.2
20	0	1.8	38.52	9.2 Y 3.7/.3
25	-0.67	-0.78	31.9	7.8 B 3.1/.2
30	-0.67	-0.75	32.05	7.4 B 3.1/.2
35	-0.69	-0.3	32.47	6.0 BG 3.2/.1
40	-0.66	-0.72	31.41	7.2 B 3.1/.2
45	-0.43	0.16	38.12	2.2 G 3.7/.1
50	-0.12	1.68	38.57	0.3 GY 3.7/.3

Cruise No: 2007802

Station: 65

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1479.91
3	1477.79
4	1477.70
5	1490.52
6	1485.61
7	1482.35
8	1485.43
9	1485.95
10	1484.67
11	1483.55
12	1484.83
13	1486.11
14	1485.13
15	1484.16
16	1484.31
17	1486.04
18	1487.17
19	1485.22
20	1484.24
21	1484.55
22	1483.06
23	1480.76
24	1480.39
25	1479.37
26	1479.46
27	1478.59
28	1478.53
29	1478.62
30	1478.71
31	1478.95
32	1477.94
33	1478.03
34	1479.07
35	1480.12
36	1479.10
37	1478.90
38	1478.69
39	1478.99
40	1479.43
41	1480.18
42	1480.63
43	1482.18
44	1484.54
45	1485.80
46	1484.99
47	1485.65
48	1484.69
49	1484.39
50	1483.88
51	1485.14
52	1486.40
53	1486.91
54	1491.49
55	1497.56

Cruise No: 2007802

Station: 65

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
8	1444.98		9.93
18	1447.71		10.18
28	1444.98		10.34
38	1447.71		10.57
48	1453.21		10.93

Cruise No: 2007802

Station: 66

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

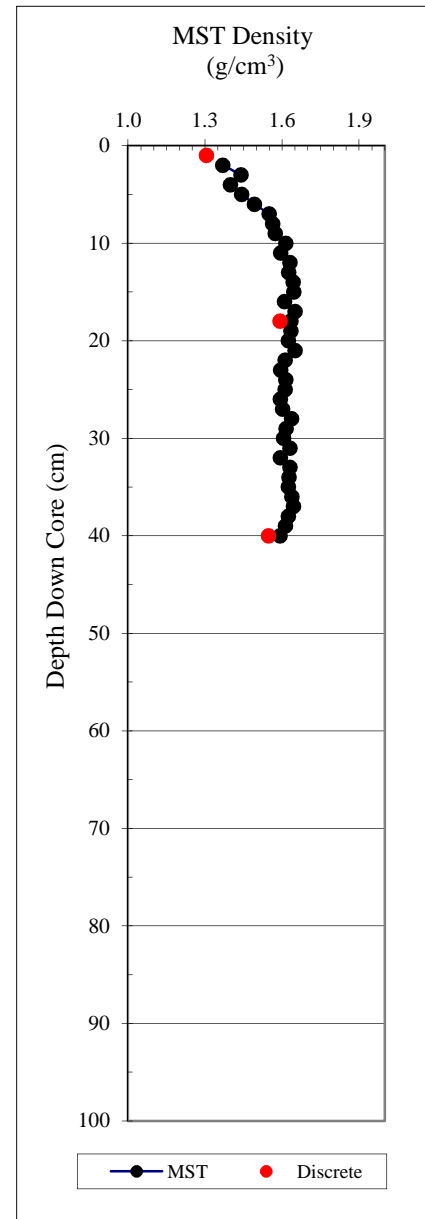
Station: 66

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
2	1.369
3	1.440
4	1.399
5	1.443
6	1.493
7	1.550
8	1.564
9	1.574
10	1.615
11	1.594
12	1.630
13	1.625
14	1.644
15	1.645
16	1.610
17	1.651
18	1.635
19	1.634
20	1.624
21	1.651
22	1.613
23	1.595
24	1.614
25	1.612
26	1.593
27	1.603
28	1.637
29	1.616
30	1.606
31	1.631
32	1.594
33	1.631
34	1.627
35	1.624
36	1.639
37	1.645
38	1.624
39	1.614
40	1.592



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.305	0.484	80.164	2.441	4.041	62.897	169.518
18	1.592	0.892	68.314	2.816	2.156	43.945	78.395
** 40	1.548	0.864	66.716	2.597	2.004	44.144	79.030

Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	5.00
2	7.00
3	8.00
4	9.00
5	11.00
6	12.00
7	12.00
8	13.00
9	14.00
10	14.00
11	14.00
12	14.00
13	15.00
14	15.00
15	15.00
16	16.00
17	16.00
18	16.00
19	15.00
20	16.00
21	15.00
22	15.00
23	15.00
24	15.00
25	15.00
26	15.00
27	15.00
28	15.00
29	15.00
30	15.00
31	15.00
32	15.00
33	15.00
34	15.00
35	15.00
36	14.00
37	13.00
38	12.00
39	10.00
40	7.00

Cruise No: 2007802

Station: 66

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.629
2	1.485
3	1.182
4	0.902
5	0.725
6	0.637
7	0.595
8	0.574
9	0.566
10	0.567
11	0.573
12	0.580
13	0.588
14	0.592
15	0.594
16	0.597
17	0.601
18	0.604
19	0.607
20	0.608
21	0.610
22	0.610
23	0.610
24	0.607
25	0.604
26	0.599
27	0.594
28	0.589
29	0.584
30	0.581
31	0.580
32	0.581
33	0.584
34	0.590
35	0.598
36	0.614
37	0.638
38	0.679
39	0.745
40	0.858

Cruise No: 2007802

Station: 66

Sample Type: Push Core

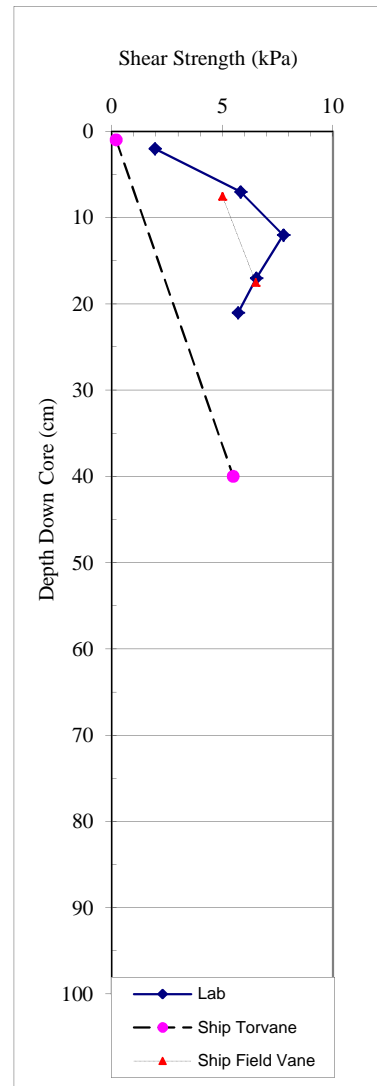
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.305	0.484	80.164	2.441	4.041	62.897	169.518
18	1.592	0.892	68.314	2.816	2.156	43.945	78.395
** 40	1.548	0.864	66.716	2.597	2.004	44.144	79.030

Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
2	1.94	1.37	1.42
7	5.83	1.71	3.40
12	7.75	4.76	1.63
17	6.54	3.10	2.11
21	5.71	3.08	1.85
27	6.85	3.20	2.14
31	5.32	3.10	1.71
37	7.86	3.43	2.29



Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Shipboard Torvane

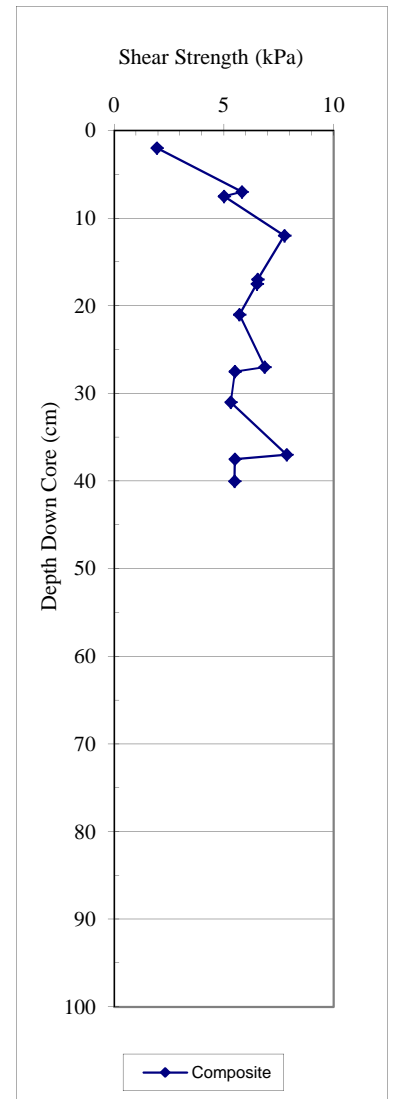
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
1.0	0.20
40	5.49

Cruise No: 2007802
 Station: 66
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	5.00
17.5	6.50
27.5	5.50
37.5	5.50

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
1.0	0.20	
2	1.94	1.37
7	5.83	1.71
7.5	5.00	
12	7.75	4.76
17	6.54	3.10
17.5	6.50	
21	5.71	3.08
27	6.85	3.20
27.5	5.50	
31	5.32	3.10
37	7.86	3.43
37.5	5.50	
40	5.49	



Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.65	3.03	44.22	4.5 Y 4.3/4
10	-0.25	1.28	37.57	1.7 GY 3.6/2
15	0.19	2.54	38.33	8.0 Y 3.7/4
20	0.31	2.96	37.84	7.5 Y 3.7/4
25	0.26	2.41	39.54	7.5 Y 3.8/4
30	0.08	2.39	39.04	8.5 Y 3.8/4
35	-0.06	1.84	38.49	9.5 Y 3.7/3

Cruise No: 2007802

Station: 66

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1475.60
3	1482.04
4	1482.46
5	1494.23
6	1491.60
7	1495.55
8	1496.76
9	1497.28
10	1496.83
11	1494.42
12	1493.29
13	1498.94
14	1501.21
15	1497.81
16	1494.42
17	1494.42
18	1502.35
19	1502.35
20	1500.08
21	1498.94
22	1497.28
23	1495.63
24	1495.10
25	1494.43
26	1494.88
27	1495.03
28	1495.33
29	1495.63
30	1495.78
31	1495.93
32	1496.08
33	1497.36
34	1499.62
35	1499.62
36	1498.49
37	1498.49
38	1500.15
39	1499.02
40	1504.50

Cruise No: 2007802

Station: 66

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
9	1453.21		10.31
19	1458.75		10.49
29	1458.75		10.66

Cruise No: 2007802

Station: 67

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2007802

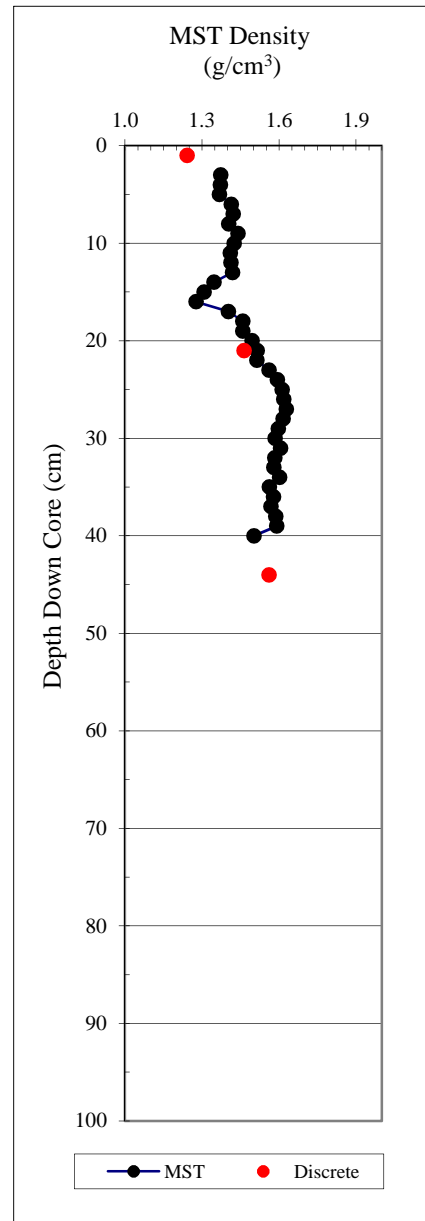
Station: 67

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
3	1.373
4	1.371
5	1.368
6	1.414
7	1.421
8	1.404
9	1.440
10	1.426
11	1.411
12	1.412
13	1.419
14	1.347
15	1.308
16	1.277
17	1.402
18	1.459
19	1.458
20	1.495
21	1.515
22	1.514
23	1.561
24	1.594
25	1.612
26	1.619
27	1.628
28	1.615
29	1.597
30	1.585
31	1.606
32	1.583
33	1.579
34	1.602
35	1.562
36	1.579
37	1.568
38	1.587
39	1.591
40	1.503



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.242	0.399	82.289	2.254	4.646	67.855	211.093
21	1.464	0.688	75.792	2.840	3.131	53.024	112.873
** 44	1.562	0.898	64.820	2.552	1.843	42.504	73.924

Cruise No: 2007802

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	4.00
2	5.00
3	7.00
4	7.00
5	7.00
6	8.00
7	9.00
8	9.00
9	9.00
10	9.00
11	9.00
12	9.00
13	9.00
14	9.00
15	8.00
16	9.00
17	10.00
18	10.00
19	11.00
20	11.00
21	13.00
22	13.00
23	13.00
24	14.00
25	14.00
26	15.00
27	15.00
28	16.00
29	16.00
30	15.00
31	16.00
32	16.00
33	16.00
34	16.00
35	15.00
36	15.00
37	15.00
38	18.00
39	14.00
40	14.00
41	12.00
42	11.00
43	9.00
44	6.00

Cruise No: 2007802

Station: 6Z

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
1	1.609
2	1.426
3	1.144
4	0.867
5	0.687
6	0.595
7	0.549
8	0.525
9	0.513
10	0.508
11	0.505
12	0.504
13	0.503
14	0.503
15	0.506
16	0.508
17	0.510
18	0.512
19	0.515
20	0.521
21	0.529
22	0.538
23	0.548
24	0.557
25	0.565
26	0.572
27	0.579
28	0.587
29	0.594
30	0.597
31	0.597
32	0.595
33	0.592
34	0.591
35	0.592
36	0.595
37	0.601
38	0.608
39	0.619
40	0.637
41	0.664
42	0.712
43	0.801
44	0.967

Cruise No: 2007802

Station: 67

Sample Type: Push Core

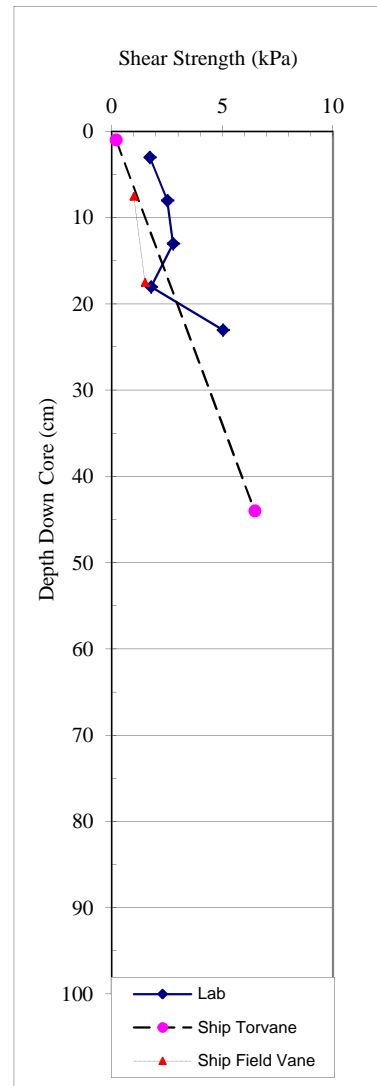
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.242	0.399	82.289	2.254	4.646	67.855	211.093
21	1.464	0.688	75.792	2.840	3.131	53.024	112.873
** 44	1.562	0.898	64.820	2.552	1.843	42.504	73.924

Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
3	1.71	1.60	1.07
8	2.51	2.17	1.16
13	2.77	1.99	1.39
18	1.77	1.22	1.45
23	5.03	2.40	2.10
28	10.85	1.83	5.94
33	7.42	1.33	5.58
38	7.64	1.88	4.06



Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Shipboard Torvane

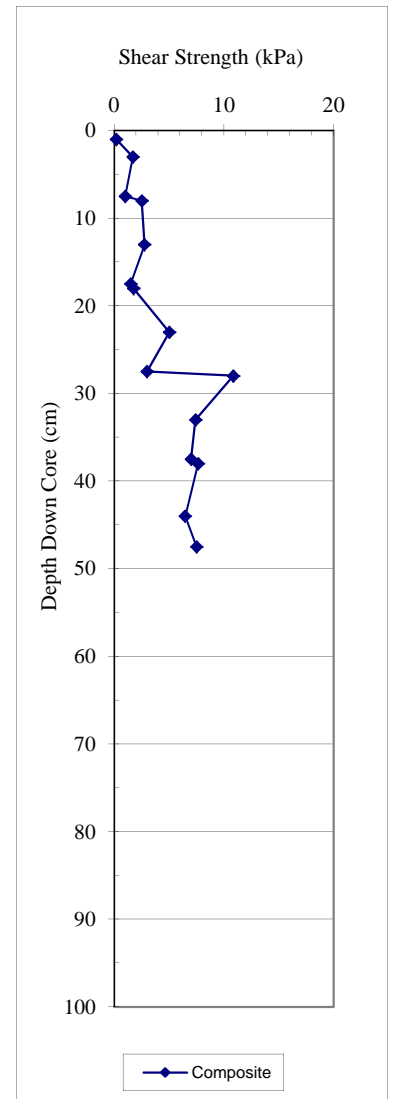
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1.0	0.20
44	6.47

Cruise No: 2007802
 Station: 67
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.00
17.5	1.50
27.5	3.00
37.5	7.00
47.5	7.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
1	0.2	
3	1.71	1.60
7.5	1.00	
8	2.51	2.17
13	2.77	1.99
17.5	1.50	
18	1.77	1.22
23	5.03	2.40
27.5	3.00	
28	10.85	1.83
33	7.42	1.33
37.5	7.00	
38	7.64	1.88
44	6.47	
47.5	7.50	



Cruise No: 2007802

Station: 67

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	1.06	4.94	41.02	4.7 Y	4.0/.7
10	1.36	6.3	39.81	4.9 Y	3.8/.9
15	-0.05	1.75	39.75	9.2 Y	3.9/.3
20	0.06	1.68	36.4	8.7 Y	3.5/.3
25	-0.12	1.36	40.29	0.3 GY	3.9/.2
30	-0.2	1.37	37.1	1.2 GY	3.6/.2
35	-0.09	1.68	37.84	9.8 Y	3.7/.3
40	0.06	1.81	35.77	8.9 Y	3.5/.3

Cruise No: 2007802

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1501.41
4	1490.69
5	1501.49
6	1494.64
7	1491.06
8	1492.39
9	1494.84
10	1495.51
11	1496.48
12	1496.18
13	1495.06
14	1497.15
15	1501.65
16	1501.65
17	1501.65
18	1494.91
19	1489.34
20	1486.01
21	1484.91
22	1489.49
23	1493.27
24	1498.80
25	1502.78
26	1505.49
27	1505.94
28	1506.77
29	1490.05
30	1498.95
31	1504.58
32	1502.32
33	1498.95
34	1502.32
35	1501.20
36	1500.22
37	1499.10
38	1501.35
39	1501.35
40	1503.60
41	1490.05

Cruise No: 2007802

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
18	1447.71		8.88
28	1455.98		9.08
38	1455.98		9.32

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

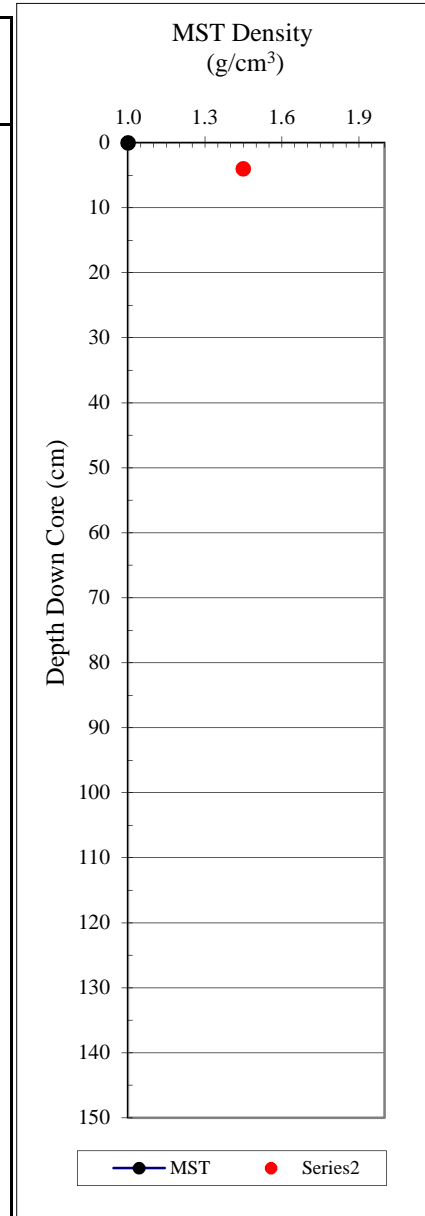
Station: 72

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.450	0.667	76.376	2.825	3.233	53.957	117.187
10	1.500	0.751	73.176	2.798	2.728	49.958	99.832
** 35	1.457	0.792	64.966	2.261	1.854	45.648	83.987

Cruise No: 2008801

Station: 72

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.450	0.667	76.376	2.825	3.233	53.957	117.187
10	1.500	0.751	73.176	2.798	2.728	49.958	99.832
** 35	1.457	0.792	64.966	2.261	1.854	45.648	83.987

Cruise No: 2008801
 Station: 72
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.63	1.60	1.64
15	5.94	5.37	1.11
25	4.46	1.49	3.00

Cruise No: 2007802
 Station: 72
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 72
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 72

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	3.4	8.22	40.15	1.4 Y	3.8/1.1
5	2.34	7.38	42.2	2.8 Y	4.1/1.0
10	0.57	3.26	45.1	5.2 Y	4.4/4
15	0.76	4.04	41.84	5.3 Y	4.0/6
20	0.59	2.62	45.24	4.5 Y	4.4/4
25	0.44	2.91	43.97	5.9 Y	4.3/4
30	0.54	3.76	43.28	6.2 Y	4.2/5

Cruise No: 2008801

Station: 72

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 72

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1475.27	1459.62	19.1
15	1486.62	1483.22	14.83
25	1480.93	1491.26	14.82

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

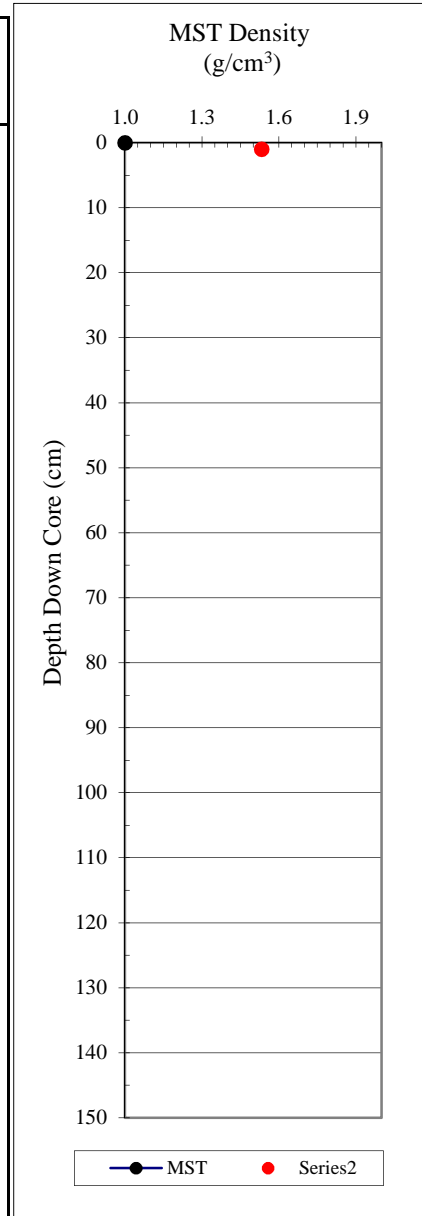
Station: 73

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.533	0.845	67.104	2.570	2.040	44.837	81.280
4	1.798	1.236	54.812	2.736	1.213	31.224	45.400

Cruise No: 2008801

Station: 73

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.533	0.845	67.104	2.570	2.040	44.837	81.280
4	1.798	1.236	54.812	2.736	1.213	31.224	45.400

Cruise No: 2008801
 Station: 73
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	8.91	0.57	15.60
15	3.77	4.34	0.87
25	9.37		

Cruise No: 2007802
 Station: 73
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 73
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 73

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	43.4	1.22	4.06	3.3 Y 4.2/.6
5	42.19	0.88	3.52	4.2 Y 4.1/.5
10	41.02	0.81	3.61	4.6 Y 4.0/.5
15	34.89	-0.66	-0.89	9.1 B 3.4/.2
20	35.88	-0.46	-0.46	6.7 B 3.5/.1
25	35.74	-0.51	-1.07	2.4 PB 3.5/.2

Cruise No: 2008801

Station: 73

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 73

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1536.89	1567.73	14.47
15	1486.62	1487.23	14.49

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.677	1.083	58.066	2.582	1.385	35.450	54.919
17	1.668	1.022	63.087	2.767	1.709	38.740	63.239

Cruise No: 2008801

Station: 75

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.677	1.083	58.066	2.582	1.385	35.450	54.919
17	1.668	1.022	63.087	2.767	1.709	38.740	63.239

Cruise No: 2008801

Station: 75

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	5.60	1.14	4.91
15	4.00		
25	3.31		
35	5.14	1.14	4.51

Cruise No: 2007802

Station: 75

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
1	0.79

Cruise No: 2007802

Station: 75

Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 75

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.68	2.91	45.17	4.2 Y	4.4/4
5	0.7	3.1	44.34	4.4 Y	4.3/4
10	0.41	2.43	44.04	5.7 Y	4.3/3
15	0.24	2.21	42.57	7.0 Y	4.1/3
20	0.27	2.13	42.01	6.7 Y	4.1/3
25	0.65	3.2	43.74	4.8 Y	4.2/4
30	0.54	3.11	42.24	5.3 Y	4.1/4
35	0.15	2.08	41.98	7.5 Y	4.1/3

Cruise No: 2008801

Station: 75

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 75

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1495.25	1491.26	14.08
15	1515.79	1520.1	14.15
25	1506.92	1491.26	14.22
35	1509.86	1491.26	14.28

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

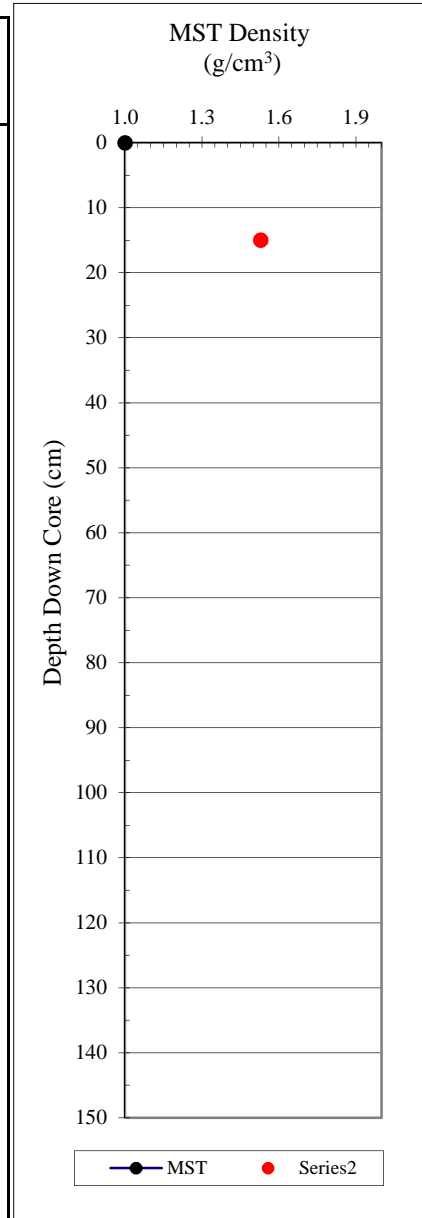
Station: 76

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.530	0.875	63.915	2.426	1.771	42.780	74.763
** 34	1.572	0.897	65.895	2.631	1.932	42.921	75.194

Cruise No: 2008801

Station: 76

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.530	0.875	63.915	2.426	1.771	42.780	74.763
34	1.572	0.897	65.895	2.631	1.932	42.921	75.194

Cruise No: 2008801
 Station: 76
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
12	5.25	2.51	2.09
29	5.83	3.88	1.50

Cruise No: 2007802
 Station: 76
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
35	3.73

Cruise No: 2007802
 Station: 76
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 76

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	1.09	5.03	43.63	4.6 Y	4.2/.7
5	0.92	4.41	41.23	5.0 Y	4.0/.6
10	0.38	3	43.1	6.9 Y	4.2/.4
15	0.07	2.26	42.72	8.7 Y	4.1/.3
20	0.16	3.06	38.91	8.5 Y	3.8/.5
25	0.28	2.38	42.88	6.8 Y	4.2/.3
30	0.55	2.63	44	4.9 Y	4.3/.4

Cruise No: 2008801

Station: 76

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 76

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
12	1486.62	1479.24	15.76
29	1483.77	1479.24	15.76

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA

**

**

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
20	1.476	0.716	74.224	2.778	2.880	51.490	106.143
44	1.548	0.869	66.255	2.576	1.963	43.840	78.061
63	1.634	0.968	65.077	2.770	1.864	40.787	68.880
87	1.615	0.971	62.936	2.619	1.698	39.901	66.393

Cruise No: 2008801

Station: 78

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
20	1.476	0.716	74.224	2.778	2.880	51.490	106.143
** 44	1.548	0.869	66.255	2.576	1.963	43.840	78.061
63	1.634	0.968	65.077	2.770	1.864	40.787	68.880
** 87	1.615	0.971	62.936	2.619	1.698	39.901	66.393

Cruise No: 2008801

Station: 78

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	6.17	4.57	1.35
15	4.00		
25	5.83	1.71	3.40
37	5.48	1.83	3.00
48	5.60	1.14	4.90
55	3.54		
65	4.11	2.51	1.64
75	4.80	3.54	1.35
84	5.83	1.14	5.10

Cruise No: 2007802

Station: 78

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
0	0.20
44	4.71
88	4.71

Cruise No: 2007802

Station: 78

Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 78

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.73	3.81	39.25	5.5 Y 3.8/5
5	0.35	2.54	42.17	6.8 Y 4.1/4
10	-0.02	2.28	38.8	9.3 Y 3.8/4
15	0.09	2.52	38.72	8.8 Y 3.8/4
20	0.71	4.19	40.94	6.0 Y 4.0/6
25	0.34	3.1	41.53	7.4 Y 4.0/4
30	0.48	3.22	41.21	6.4 Y 4.0/5
35	0.2	2.36	40.21	7.9 Y 3.9/3
40	-0.11	0.86	44.84	0.7 GY 4.3/1
45	0.55	2.82	42.71	5.2 Y 4.1/4
50	0.41	2.56	42.65	5.9 Y 4.1/4
55	0.55	3.07	43.35	5.5 Y 4.2/4
60	0.27	2.44	42.09	7.3 Y 4.1/3
65	0.47	2.63	42.61	5.7 Y 4.1/4
70	-0.2	1.31	39.14	1.2 GY 3.8/2
75	-0.45	0.78	36.37	5.8 GY 3.5/2
80	-0.38	0.32	38.48	8.8 GY 3.7/1
85	-0.2	0.9	40.23	1.9 GY 3.9/2

Cruise No: 2008801

Station: 78

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 78

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1480.93	1479.24	14.64
15	1475.27	1471.33	14.66
25	1475.27	1467.4	14.69
35	1478.09	1471.33	14.77
48	1486.62	1491.26	15.31
55	1483.77	1479.24	15.3
65	1501.06	1487.23	15.38
75	1486.62	1487.23	15.38

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008801

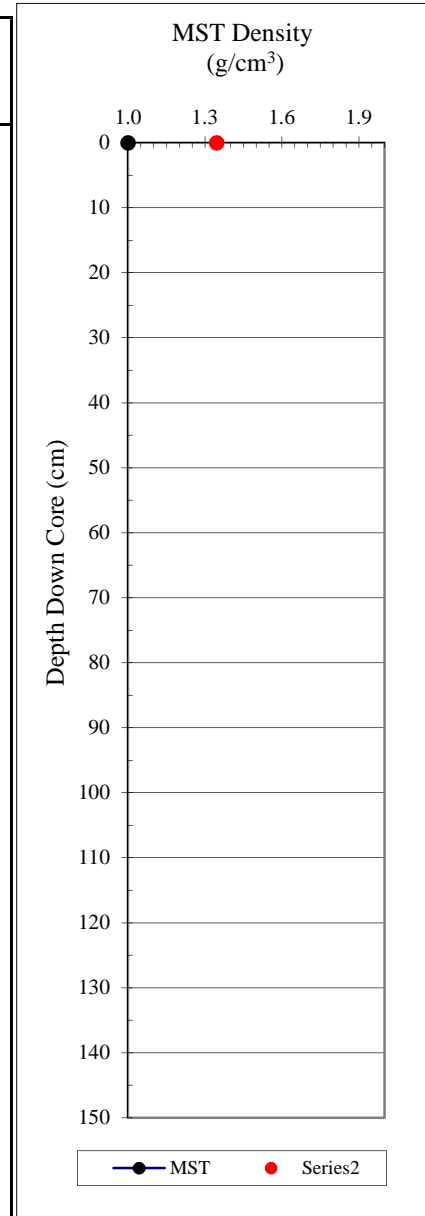
Station: 85

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801

Station: 85

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801
 Station: 85
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	4.23	2.74	1.54
15	8.68	2.17	4.00
24	7.54		

Cruise No: 2007802
 Station: 85
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
31	7.06

Cruise No: 2007802
 Station: 85
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 85

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.82	3.8	40.54	4.8 Y	3.9/5
5	0.15	2.12	40.4	8.2 Y	3.9/3
10	0.39	2.53	43.01	6.3 Y	4.2/4
15	0.53	2.9	44.12	5.5 Y	4.3/4
20	0.26	2.39	41.8	7.2 Y	4.0/3
25	-0.03	2.08	37.94	9.4 Y	3.7/3
30	0.23	2.02	42.61	7.1 Y	4.1/3

Cruise No: 2008801

Station: 85

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 85

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1475.27	1459.62	15.12
15	1486.62	1487.23	15.14

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Laboratory MST Density

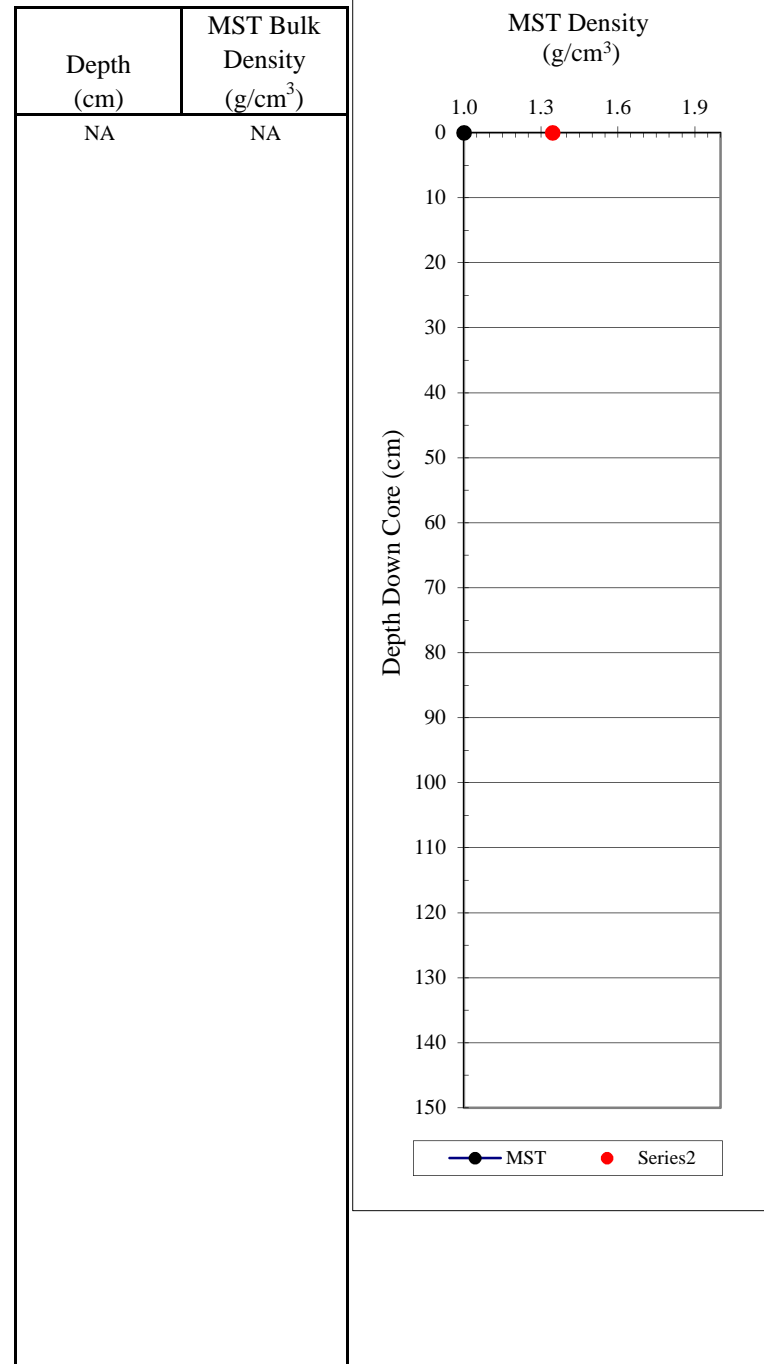
Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.347	0.514	81.341	2.753	4.359	61.857	162.168
4	1.443	0.667	75.794	2.754	3.131	53.794	116.422
10	1.509	0.771	72.160	2.768	2.592	48.954	95.902

Cruise No: 2008801

Station: 24

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 0	1.617	0.967	63.453	2.646	1.736	40.185	67.183
4	1.654	0.999	64.017	2.775	1.779	39.633	65.654
10	1.650	0.992	64.245	2.775	1.797	39.872	66.311
** 27	1.669	1.047	60.724	2.666	1.546	37.257	59.380

Cruise No: 2008801
 Station: 94
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	5.37	2.86	1.88
15	5.71	3.31	1.72
23	7.77		

Cruise No: 2007802
 Station: 94
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
28	5.10

Cruise No: 2007802
 Station: 94
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802

Station: 94

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	1.56	4.64	43.27	2.7 Y	4.2/.6
5	1.4	5.09	41.67	3.7 Y	4.0/.7
10	1.15	4.5	41.98	4.0 Y	4.1/.6
15	0.85	3.29	44.15	3.9 Y	4.3/.4
20	0.72	3.15	44.63	4.3 Y	4.3/.4
25	1.26	4.29	43.49	3.3 Y	4.2/.6

Cruise No: 2008801

Station: 94

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008801

Station: 94

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1492.37	1479.24	15.71
15	1495.25	1487.23	15.74

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

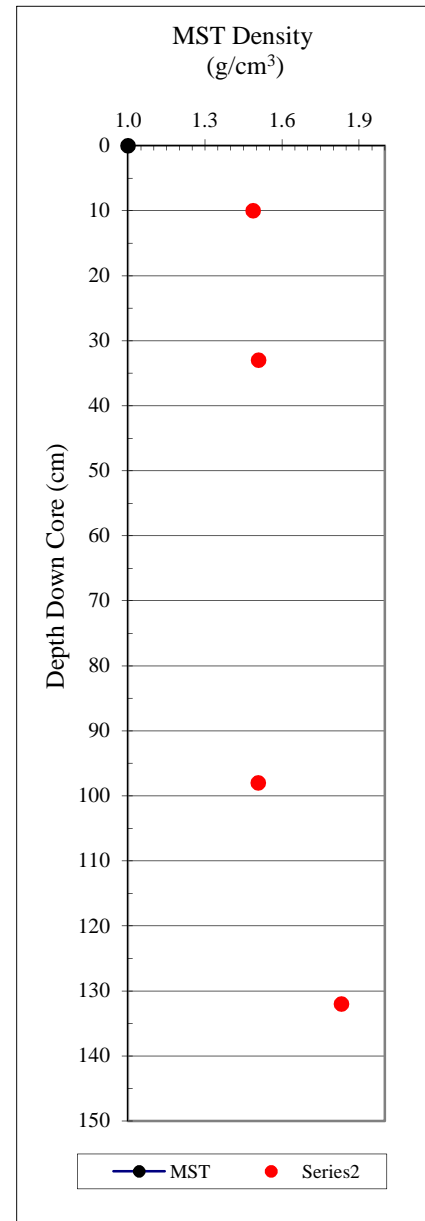
Station: 37

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
10	1.488	0.737	73.330	2.763	2.750	50.466	101.883
33	1.509	0.768	72.318	2.775	2.612	49.081	96.392
98	1.507	0.763	72.671	2.791	2.659	49.380	97.549
** 132	1.832	1.272	54.654	2.806	1.205	30.549	43.986

Cruise No: 2008802

Station: 37

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
10	1.488	0.737	73.330	2.763	2.750	50.466	101.883
33	1.509	0.768	72.318	2.775	2.612	49.081	96.392
98	1.507	0.763	72.671	2.791	2.659	49.380	97.549
** 132	1.832	1.272	54.654	2.806	1.205	30.549	43.986

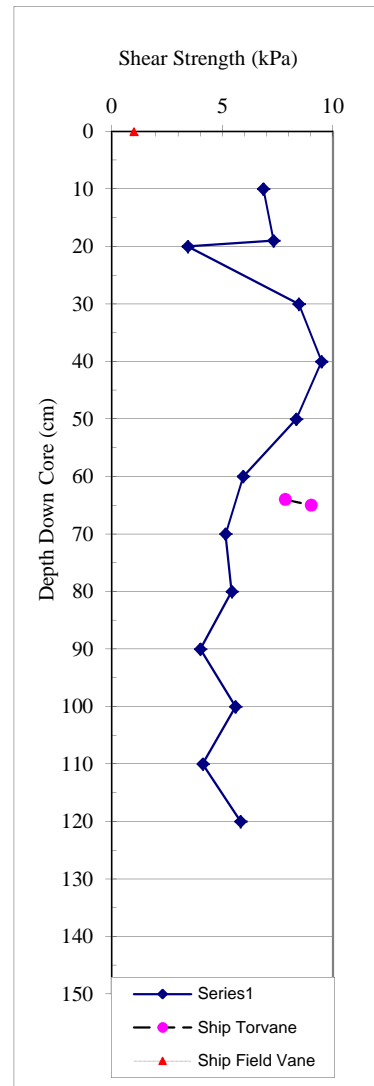
Cruise No: 2008802

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	6.85	3.31	2.07
19	7.31	4.80	1.52
20	3.43	1.44	2.38
30	8.45	4.80	1.76
40	9.48		
50	8.34		
60	5.94	2.74	2.17
70	5.14	2.28	2.25
80	5.43	2.66	
90	4.00		
100	5.60	2.51	
110	4.11		
120	5.83	1.14	



Cruise No: 2007802

Station: 37

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
64	7.85
65	9.02

Cruise No: 2007802

Station: 37

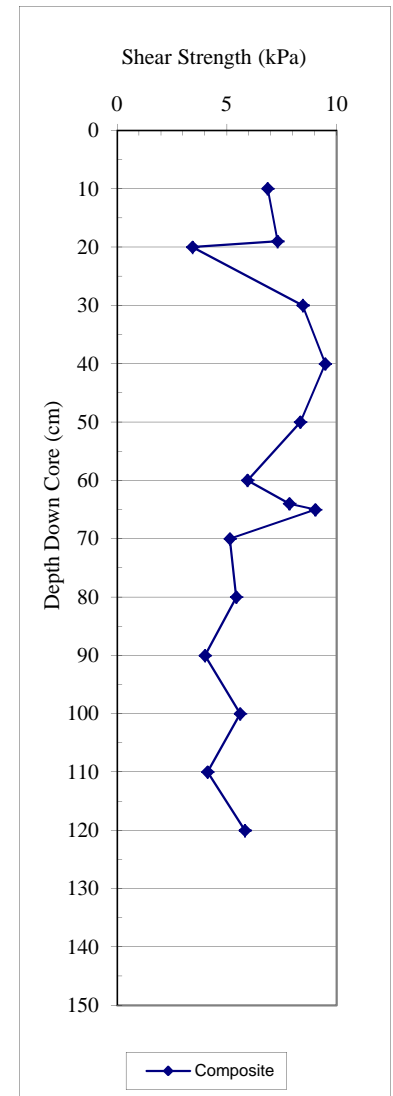
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
10	6.85	3.31
19	7.31	4.80
20	3.43	1.44
30	8.45	4.80
40	9.48	
50	8.34	
60	5.94	2.74
64	7.85	
65	9.02	
70	5.14	2.28
80	5.43	2.66
90	4.00	
100	5.60	2.51
110	4.11	
120	5.83	1.14



Cruise No: 2007802

Station: 37

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.27	2.87	41.5	7.6 Y 4.0/4
5	0.03	2.57	40.93	8.9 Y 4.0/4
10	-0.27	0.92	43.42	3.0 GY 4.2/2
15	0.23	3.04	40.97	8.0 Y 4.0/4
20	0.32	2.94	43.21	7.4 Y 4.2/4
25	-0.1	2.15	37.7	0.1 GY 3.7/4
30	-0.43	0.97	37.71	5.2 GY 3.7/2
35	-0.15	1.44	39.36	0.8 GY 3.8/2
40	-0.19	1.54	37.64	0.9 GY 3.7/3
45	-0.1	1.37	40.58	0.4 GY 3.9/2
50	-0.51	0.68	37.42	6.6 GY 3.6/2
55	-0.11	1.39	40.19	0.4 GY 3.9/2
60	0.29	3.23	39.85	7.8 Y 3.9/5
65	0.17	2.25	41.55	7.9 Y 4.0/3
70	0.32	2.7	41.36	7.3 Y 4.0/4
75	-0.27	0.4	40.19	6.4 GY 3.9/1
80	0.1	1.72	40.45	8.2 Y 3.9/3
85	0.14	2	41.43	8.3 Y 4.0/3
90	-0.08	1.45	38.25	10.0 Y 3.7/2
95	0.18	2.54	38.59	8.2 Y 3.7/4
100	-0.21	1.37	37.03	1.6 GY 3.6/2
105	-0.33	1.02	38.6	3.7 GY 3.7/2
110	0.05	1.75	39.25	8.8 Y 3.8/3
115	0.32	2.75	41.06	7.3 Y 4.0/4
120	0	1.9	37.08	9.3 Y 3.6/3
125	-0.02	1.23	42.49	9.6 Y 4.1/2
130	0.12	2.55	39.43	8.5 Y 3.8/4

Cruise No: 2008802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 37

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1450.45	1459.75	7.54
20	1448.13	1459.05	8.83
30	1450.84	1470.65	9.04
40	1450.84	1474.56	9.13
50	1450.84	1474.56	9.3
60	1456.28	1451.42	9.39
70	1456.28	1462.9	11.19
80	1456.28	1470.65	11.24
90	1456.28	1470.65	11.47
100	1456.28	1470.65	11.38
110	1450.84	1470.65	11.88
120	1456.28	1478.48	11.94

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

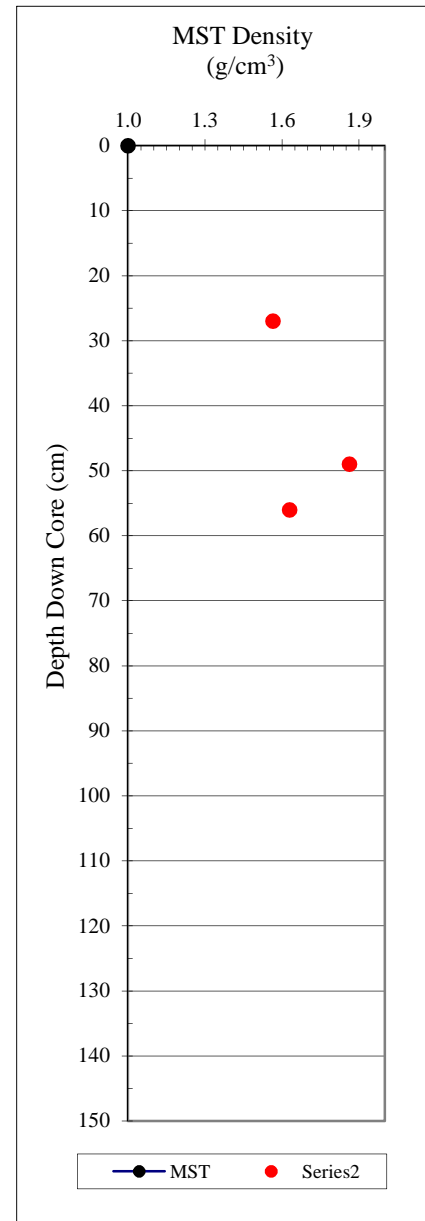
Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
27	1.565	0.858	69.001	2.769	2.226	45.153	82.326
49	1.863	1.332	51.870	2.767	1.078	28.511	39.882
** 56	1.630	0.985	63.009	2.662	1.703	39.586	65.524

Cruise No: 2008802

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

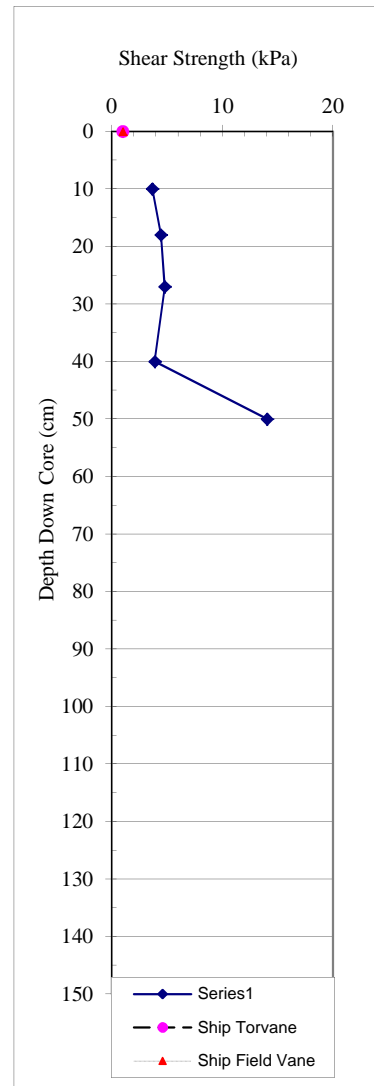
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
27	1.565	0.858	69.001	2.769	2.226	45.153	82.326
49	1.863	1.332	51.870	2.767	1.078	28.511	39.882
56	1.630	0.985	63.009	2.662	1.703	39.586	65.524

**

Cruise No: 2008802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.66	2.51	1.45
18	4.46		
27	4.80	1.71	2.80
40	3.88	2.63	1.48
50	14.05	4.34	3.24



Cruise No: 2007802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

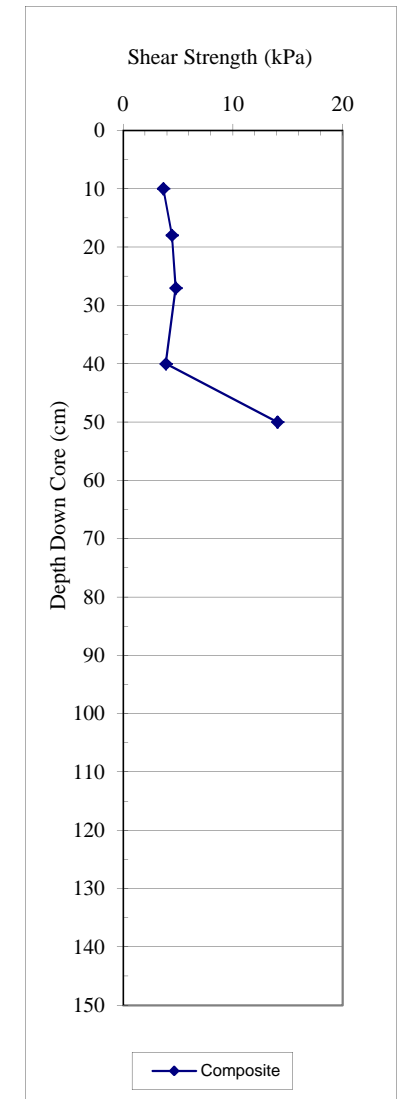
<u>Undrained</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Shear</u> <u>Shear</u> <u>(kPa)</u>
NA	NA

Cruise No: 2007802
 Station: 38
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
10	3.66	2.51
18	4.46	
27	4.80	1.71
40	3.88	2.63
50	14.05	4.34



Cruise No: 2007802

Station: 38

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.32	2.2	43.87	6.0 Y	4.2/3
5	1.05	4.29	40.09	4.4 Y	3.9/6
10	0.5	3.34	39.52	6.4 Y	3.8/5
15	0.23	2.5	38.37	7.7 Y	3.7/4
20	-0.16	1.04	37.84	0.8 GY	3.7/2
25	0.2	2.2	41.41	7.6 Y	4.0/3
30	0.13	2.28	40.35	8.2 Y	3.9/3
35	-0.46	-0.84	32.22	2.0 PB	3.1/2
40	0.15	2.28	39.81	7.9 Y	3.9/3
45	-0.42	-0.83	28.1	2.5 PB	2.7/2
50	0.13	2.16	40.3	7.9 Y	3.9/3
55	0.62	3.16	42.03	5.0 Y	4.1/4

Cruise No: 2008802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1467.3	1482.43	12.52
27	1461.77	1482.43	12.7
40	1464.53	1482.43	12.84
50		1579.45	12.91

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

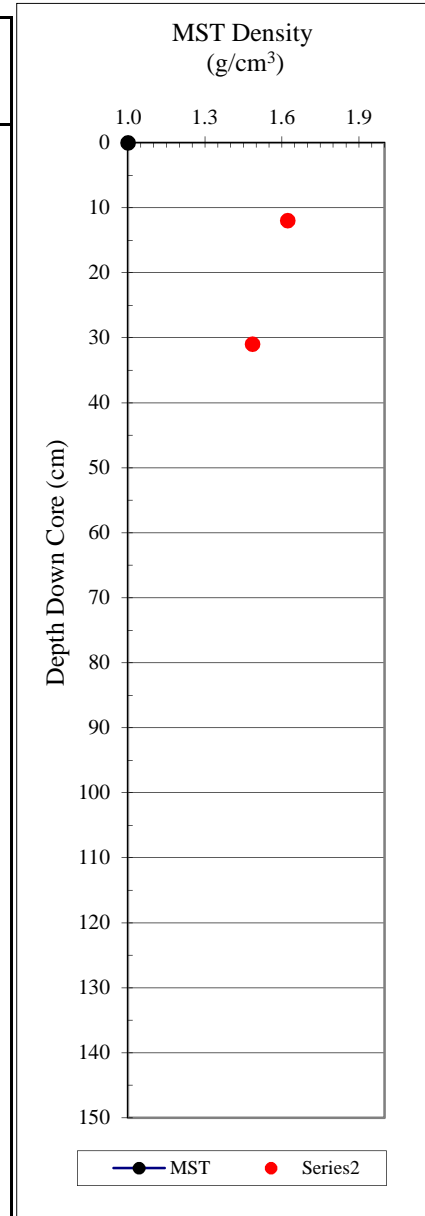
Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
12	1.6224	0.9548	65.1928	2.7431	1.873	41.1477	69.917
** 31	1.485	0.755	71.309	2.632	2.485	49.159	96.691

Cruise No: 2008802

Station: 40

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

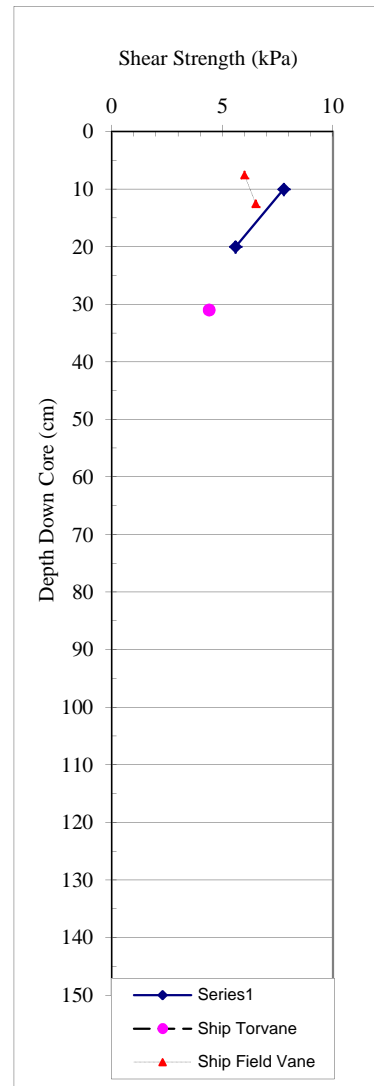
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
12	1.6224	0.9548	65.1928	2.7431	1.873	41.1477	69.917
31	1.485	0.755	71.309	2.632	2.485	49.159	96.691

**

Cruise No: 2008802
 Station: 40
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
10	7.77	2.86	2.72
20	5.60	1.60	3.50



Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Torvane

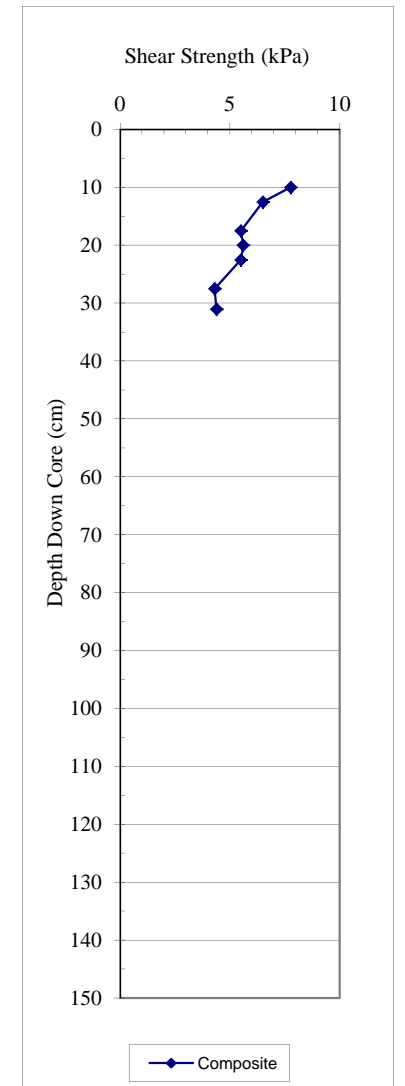
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
31	4.40

Cruise No: 2007802
 Station: 40
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>
7.5	6.00
12.5	6.50
17.5	5.50
22.5	5.50
27.5	4.30

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u>
	<u>(kPa)</u>	<u>(kPa)</u>
7.5	6.00	
10	7.77	2.86
12.5	6.50	
17.5	5.50	
20	5.60	1.60
22.5	5.50	
27.5	4.30	
31	4.40	



Cruise No: 2007802

Station: 40

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	44.69	2.5	6.66	1.9 Y 4.3/9
5	43.28	1.43	4.12	2.8 Y 4.2/6
10	41.93	2.62	8.88	3.0 Y 4.0/1.2
15	43.3	0.84	3.1	3.8 Y 4.2/4
20	40.91	1.17	4.18	3.9 Y 3.9/6
25	41.68	0.83	3.42	4.4 Y 4.0/5

Cruise No: 2008802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 40

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1481.31	1506.57	11.11
20	1475.67	1486.4	11.2

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

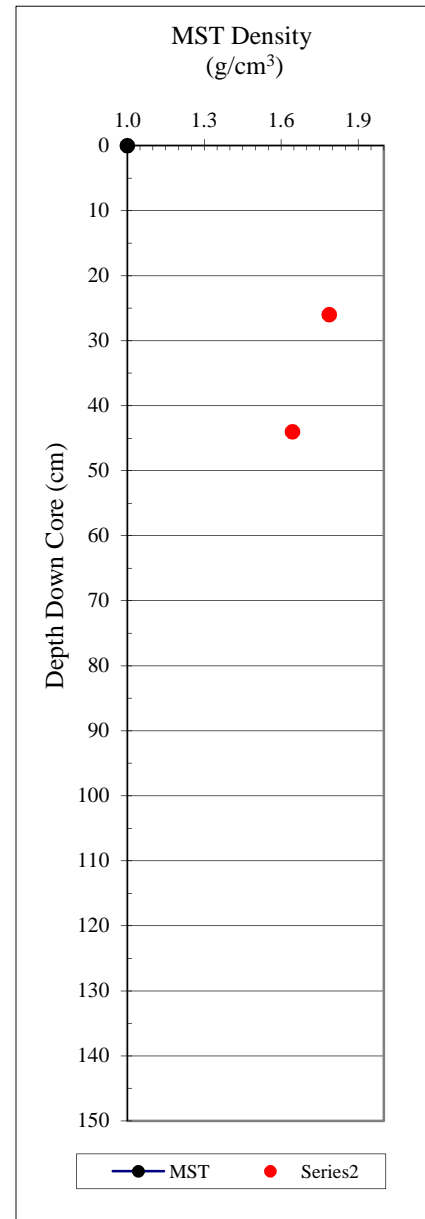
Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
26	1.7879	1.2425	53.2558	2.6581	1.1393	30.5023	43.8896
** 44	1.645	0.980	64.958	2.795	1.854	40.442	67.904

Cruise No: 2008802

Station: 42

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
26	1.7879	1.2425	53.2558	2.6581	1.1393	30.5023	43.8896
44	1.645	0.980	64.958	2.795	1.854	40.442	67.904

**

Cruise No: 2008802

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)	<u>Remoulded</u> <u>Undrained</u> Shear Shear (kPa)	Sensitivity
	12	4.68	
20	9.37		
22	6.97	4.23	1.65
30	9.25	2.63	3.52

Cruise No: 2007802

Station: 42

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Undrained</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Shear</u> <u>Shear</u> (kPa)
NA	NA

Cruise No: 2007802

Station: 42

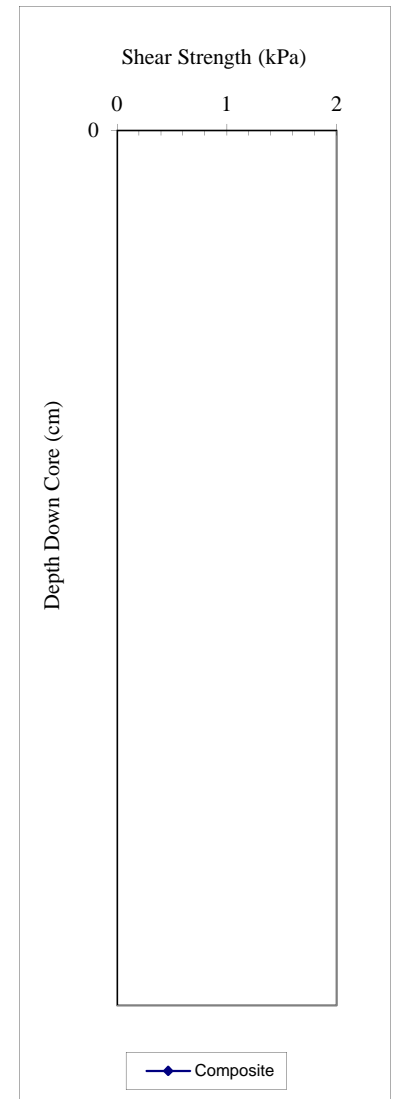
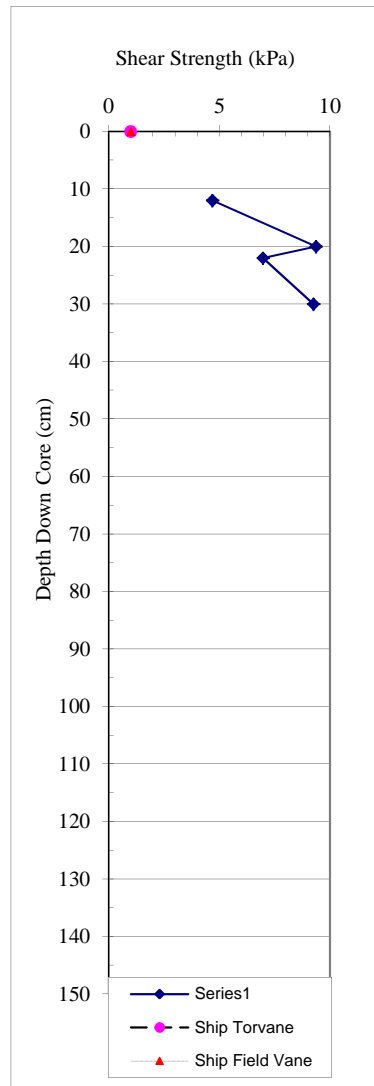
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Peak</u>	
<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear Shear</u> (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)	<u>Remoulded</u> <u>Undrained</u> Shear Shear (kPa)



Cruise No: 2007802

Station: 42

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.1	3.56	42.3	3.2 Y 4.1/.5
5	1.28	4.11	41.09	3.4 Y 4.0/.6
10	1.48	4.16	40.63	2.5 Y 3.9/.6
15	0.56	2.86	40.03	5.1 Y 3.9/.4
20	0.94	3.52	39.92	4.0 Y 3.9/.5
25	0.95	3.16	41.51	3.5 Y 4.0/.4
30	0.97	3.67	41.86	3.8 Y 4.0/.5
35	0.87	3	40.57	3.7 Y 3.9/.4
40	1.32	3.72	42.41	2.1 Y 4.1/.5

Cruise No: 2008802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 42

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1540	1561	10.9
20	1546	1570	13.2
30	1453	1561	13.5

Cruise No: 2008802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

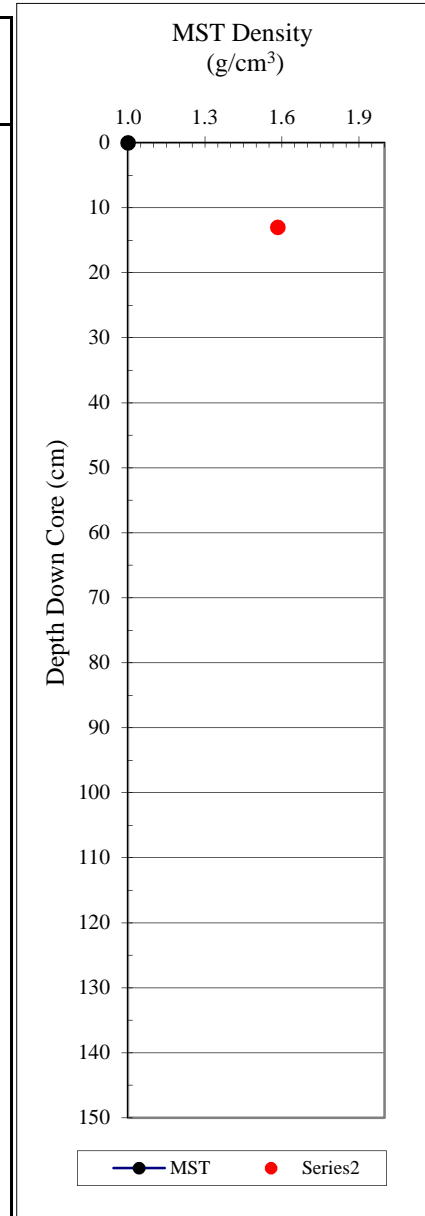
Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
13	1.5846	0.8917	67.6613	2.7574	2.0923	43.7254	77.7001

Cruise No: 2008802

Station: 43

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: Push Core

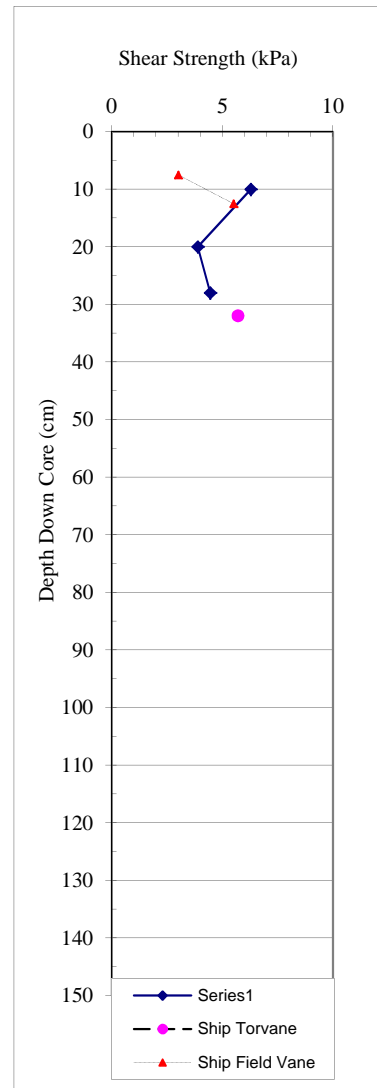
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
13	1.5846	0.8917	67.6613	2.7574	2.0923	43.7254	77.7001

Cruise No: 2008802
 Station: 43
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	10	6.28	
20	3.88	2.28	1.70
28	4.46	4.34	1.03



Cruise No: 2007802
 Station: 43
 Sample Type: Push Core
 Data Type: Shipboard Torvane

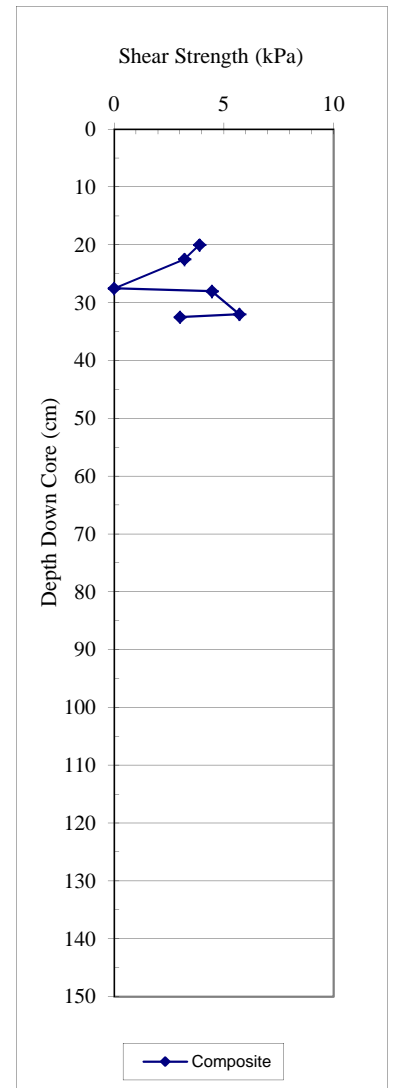
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
32	5.70

Cruise No: 2007802
 Station: 43
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	7.5
12.5	5.50
17.5	5.25
22.5	3.20
27.5	0.00
32.5	3.00

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
	7.5	3.00
10	6.28	3.66
12.5	5.50	
17.5	5.25	
20	3.88	2.28
22.5	3.20	
27.5	0.00	
28	4.46	4.34
32	5.70	
32.5	3.00	



Cruise No: 2007802

Station: 43

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.95	2.93	8.02	2.1 Y	4.0/1.1
5	41.69	2.57	7.94	2.7 Y	4.0/1.1
10	41.42	1.07	3.86	4.1 Y	4.0/5
15	44.09	0.68	2.81	4.4 Y	4.3/4
20	42.04	1.01	3.94	4.3 Y	4.1/5
25	41.51	0.87	4.06	4.9 Y	4.0/6
30	41.94	0.69	4.23	6.0 Y	4.1/6

Cruise No: 2008802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 43

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1472.87	1494.41	12.21
20	1464.53	1474.56	12.29

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

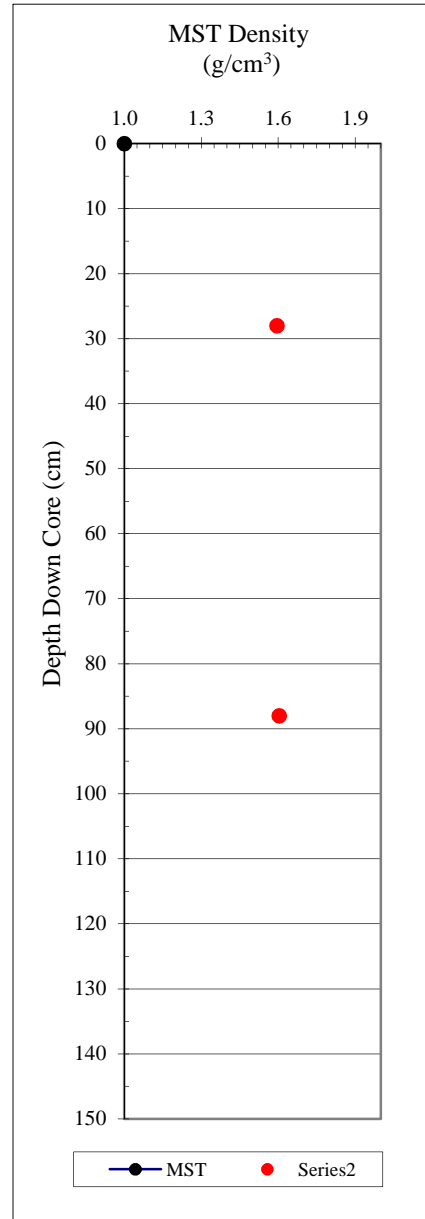
Station: 45

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
28	1.5955	0.9036	67.5655	2.7861	2.0831	43.3635	76.5646
88	1.605	0.917	67.214	2.795	2.050	42.889	75.098
** 116	1.504	0.819	66.898	2.475	2.021	45.538	83.614

Cruise No: 2008802

Station: 45

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
28	1.5955	0.9036	67.5655	2.7861	2.0831	43.3635	76.5646
88	1.605	0.917	67.214	2.795	2.050	42.889	75.098
116	1.504	0.819	66.898	2.475	2.021	45.538	83.614

**

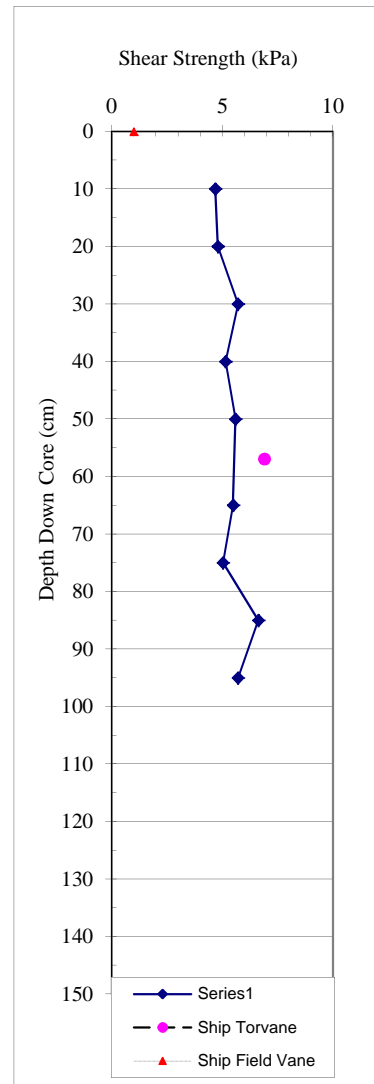
Cruise No: 2008802

Station: 45

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	4.68	1.26	3.73
20	4.80	1.94	2.47
30	5.71	2.86	2.00
40	5.14	2.40	2.14
50	5.60	1.49	3.77
65	5.48	1.94	2.82
75	5.03	3.66	1.38
85	6.63	1.83	3.63
95	5.71	1.03	5.56



Cruise No: 2007802

Station: 45

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
57	6.90

Cruise No: 2007802

Station: 45

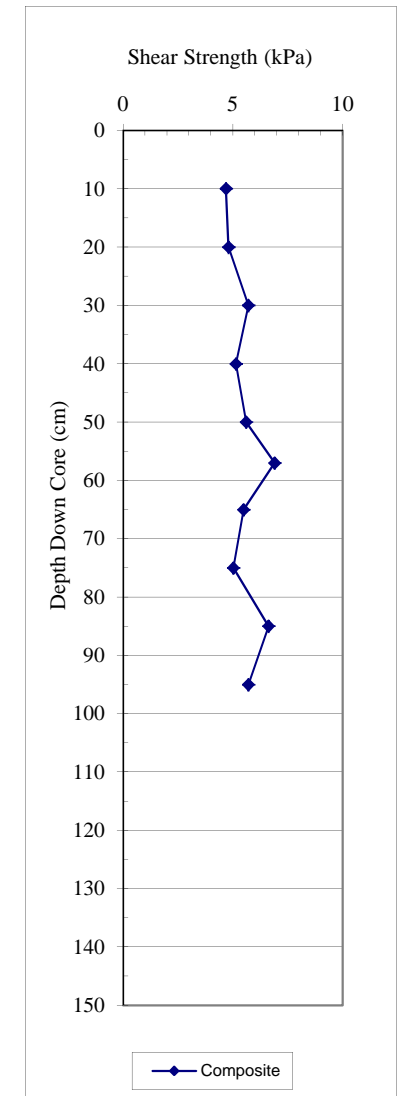
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
10	4.68	1.26
20	4.80	1.94
30	5.71	2.86
40	5.14	2.40
50	5.60	1.49
57	6.90	
65	5.48	1.94
75	5.03	3.66
85	6.63	1.83
95	5.71	1.03



Cruise No: 2007802

Station: 45

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.88	3.5	42.7	4.3 Y	4.1/.5
5	0.74	3.41	42.25	4.8 Y	4.1/.5
10	0.98	4.1	41.27	4.5 Y	4.0/.6
15	0.67	3.48	41.28	5.2 Y	4.0/.5
20	0.65	2.81	44.25	4.4 Y	4.3/.4
25	0.54	2.8	44.19	5.0 Y	4.3/.4
30	0.58	3.04	42.38	5.1 Y	4.1/.4
35	0.76	3.78	40.77	5.0 Y	3.9/.5
40	0.81	3.65	43.16	4.6 Y	4.2/.5
45	0.84	3.76	42.27	4.6 Y	4.1/.5
50	0.66	3.03	42.38	4.8 Y	4.1/.4
55	0.82	3.59	43.16	4.6 Y	4.2/.5
60	0.54	3.14	39.35	5.7 Y	3.8/.4
65	0.74	3.58	40.74	4.9 Y	3.9/.5
70	0.75	3.75	39.99	5.0 Y	3.9/.5
75	0.82	3.87	40.16	4.8 Y	3.9/.5
80	0.65	3.42	40.96	5.3 Y	4.0/.5
85	0.64	2.92	40.61	4.8 Y	3.9/.4
90	0.63	3.57	39.99	5.5 Y	3.9/.5
95	0.73	3.63	41	4.9 Y	4.0/.5
100	0.8	3.88	40.61	4.9 Y	3.9/.5
105	0.85	3.91	40.91	4.7 Y	4.0/.5
110	0.87	3.79	40.68	4.5 Y	3.9/.5

Cruise No: 2008802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 45

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1478.48	1486.4	11.66
20	1467.3	1478.48	11.75
30	1470.08	1498.44	11.87
40	1464.53	1478.48	11.93
50	1470.08	1490.39	12.15
65	1478.48	1498.44	21.25
75	1475.67	1498.44	14.23
85	1475.67	1498.44	14.34
95	1470.08	1490.39	14.54

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

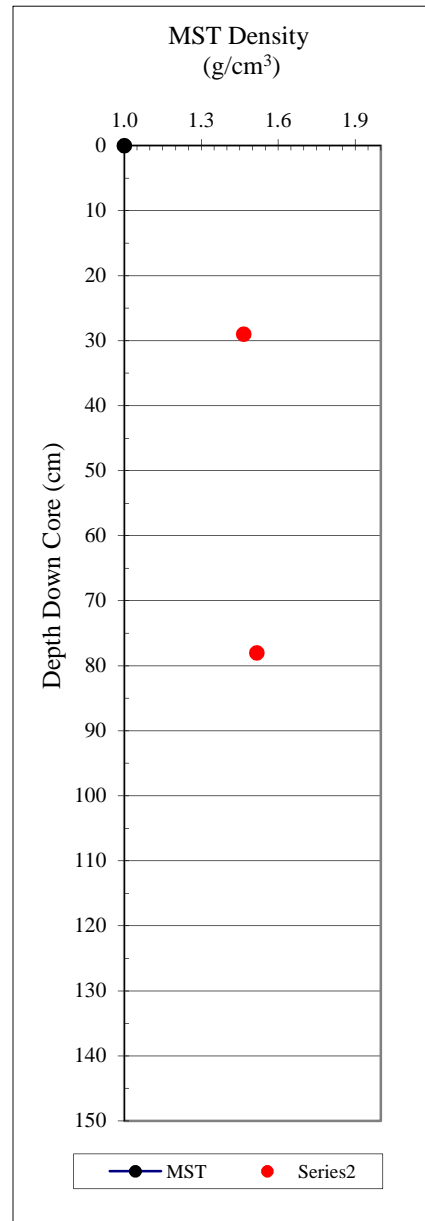
Station: 46

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
29	1.4663	0.7045	74.3934	2.7513	2.9052	51.9533	108.131
78	1.517	0.783	71.648	2.763	2.527	48.361	93.652
** 110	1.489	0.741	73.046	2.749	2.710	50.233	100.937

Cruise No: 2008802

Station: 46

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

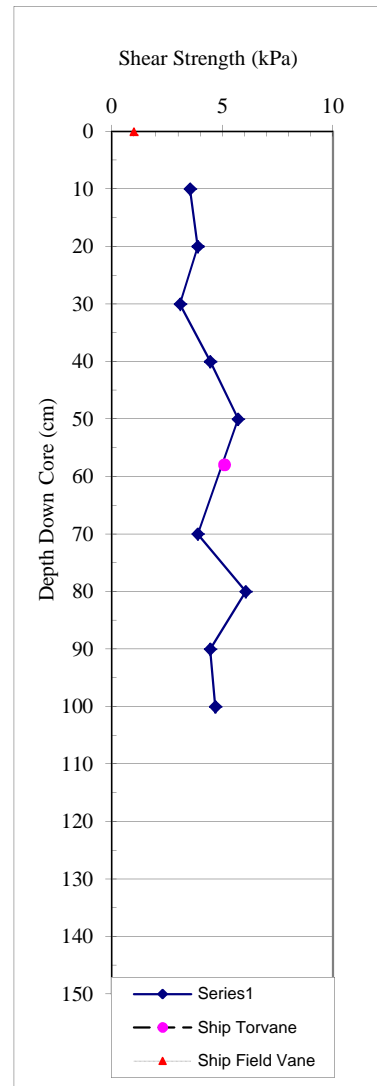
** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
29	1.4663	0.7045	74.3934	2.7513	2.9052	51.9533	108.131
78	1.517	0.783	71.648	2.763	2.527	48.361	93.652
110	1.489	0.741	73.046	2.749	2.710	50.233	100.937

**

Cruise No: 2008802
 Station: 46
 Sample Type: Gravity Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.54	2.17	1.63
20	3.88	3.54	1.10
30	3.08	1.94	1.59
40	4.46	1.71	2.60
50	5.71	1.94	2.94
70	3.88	2.17	1.79
80	6.05	1.26	4.82
90	4.46		
100	4.68	1.83	2.56



Cruise No: 2007802
 Station: 46
 Sample Type: Gravity Core
 Data Type: Shipboard Torvane

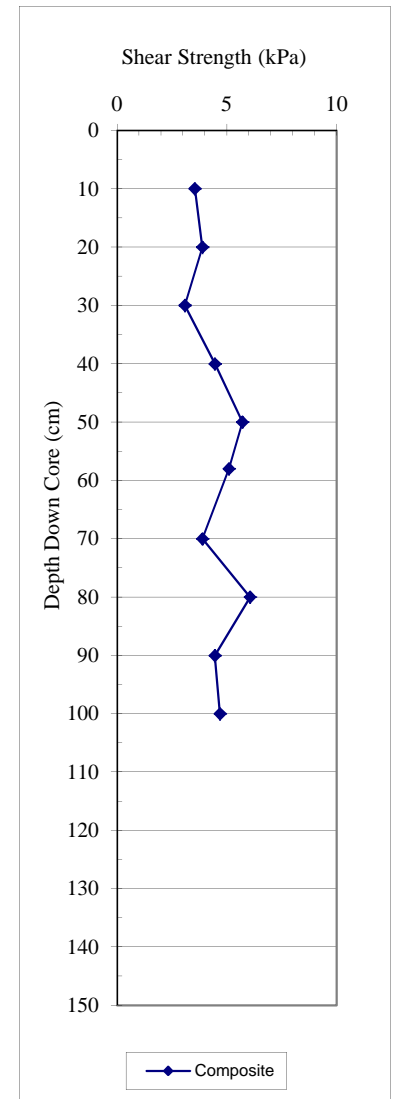
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
58	5.10

Cruise No: 2007802
 Station: 46
 Sample Type: Gravity Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
NA	NA

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
10	3.54	2.17
20	3.88	3.54
30	3.08	1.94
40	4.46	1.71
50	5.71	1.94
58	5.10	2.17
70	3.88	1.26
80	6.05	
90	4.46	
100	4.68	1.83



Cruise No: 2007802

Station: 46

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.49	1.11	5.25	4.8 Y	4.0/7
5	40.55	1.03	5.11	5.1 Y	3.9/7
10	40.6	1.19	5.97	5.0 Y	3.9/8
15	40.86	1.13	4.65	4.5 Y	3.9/6
20	43.91	0.83	3.12	3.9 Y	4.2/4
25	41.09	0.74	4.13	5.6 Y	4.0/6
30	40.66	0.25	2.56	7.6 Y	3.9/4
35	41.23	0.58	3.83	6.3 Y	4.0/5
40	39.69	0.55	3.83	6.6 Y	3.8/5
45	40.16	0.43	3.6	7.1 Y	3.9/5
50	41.32	0.73	3.79	5.4 Y	4.0/5
55	41.85	0.67	3.81	5.8 Y	4.0/5
60	39.33	0.09	1.76	8.4 Y	3.8/3
65	39.55	0.13	2.53	8.2 Y	3.8/4
70	41.66	0.61	2.97	5.0 Y	4.0/4
75	40.93	0.63	3.75	6.0 Y	4.0/5
80	37.82	-0.19	1.18	1.3 GY	3.7/2
85	35.81	-0.11	1.7	0.1 GY	3.5/3
90	43.6	0.14	2.37	8.2 Y	4.2/3
95	39.65	-0.21	1.24	1.3 GY	3.8/2
100	43.6	0.69	3.24	4.8 Y	4.2/4
105	43.41	0.18	2.34	7.8 Y	4.2/3

Cruise No: 2008802

Station: 46

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 46

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1464.53	1478.48	12.34
20	1467.3	1462.9	12.53
30	1459.02	1474.56	12.59
40	1459.02	1478.48	12.8
50	1461.77	1478.48	12.83
70	1464.53	1486.4	11.61
80	1461.77	1482.43	11.61
90	1456.28	1462.9	11.79

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

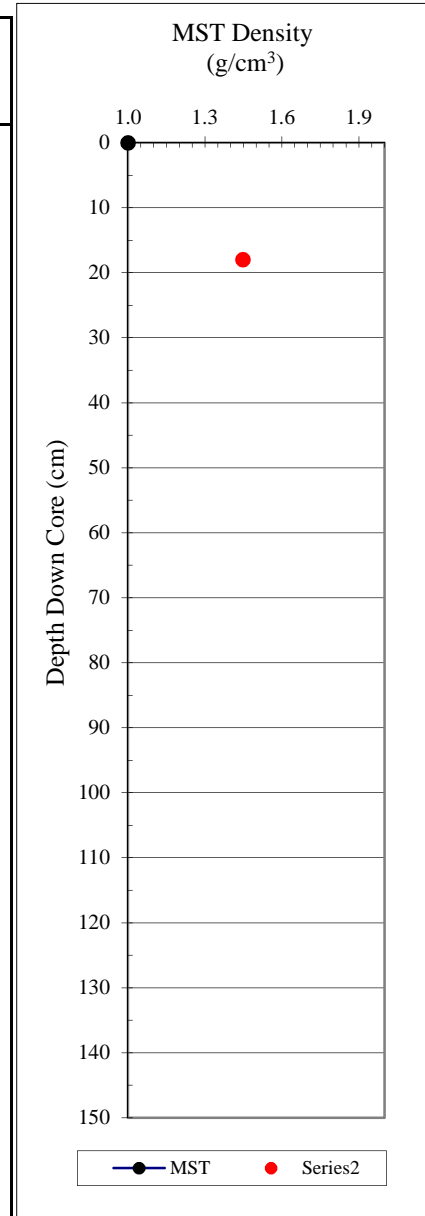
Station: 48

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.449	0.678	75.254	2.741	3.041	53.189	113.626
** 35	1.497	0.744	73.569	2.815	2.783	50.309	101.246

Cruise No: 2008802

Station: 48

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.449	0.678	75.254	2.741	3.041	53.189	113.626
35	1.497	0.744	73.569	2.815	2.783	50.309	101.246

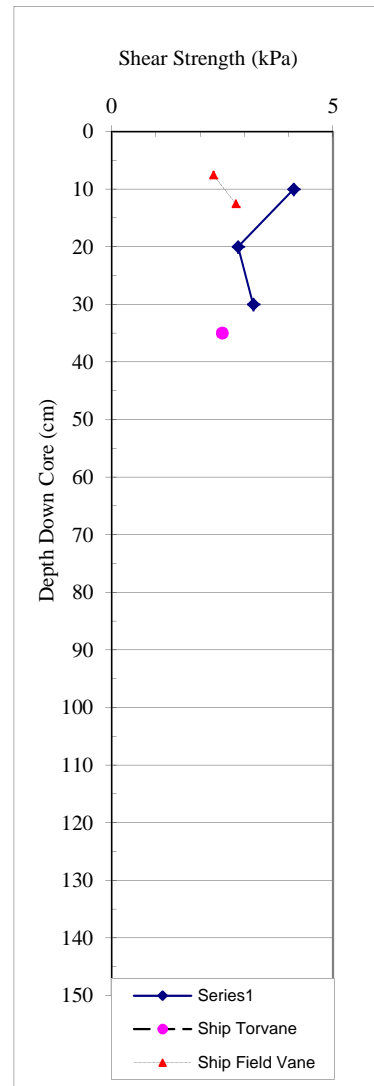
Cruise No: 2008802

Station: 48

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	4.11	2.40	1.71
20	2.86	1.49	1.92
30	3.20	2.86	1.12



Cruise No: 2007802

Station: 48

Sample Type: Push Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
35	2.50

Cruise No: 2007802

Station: 48

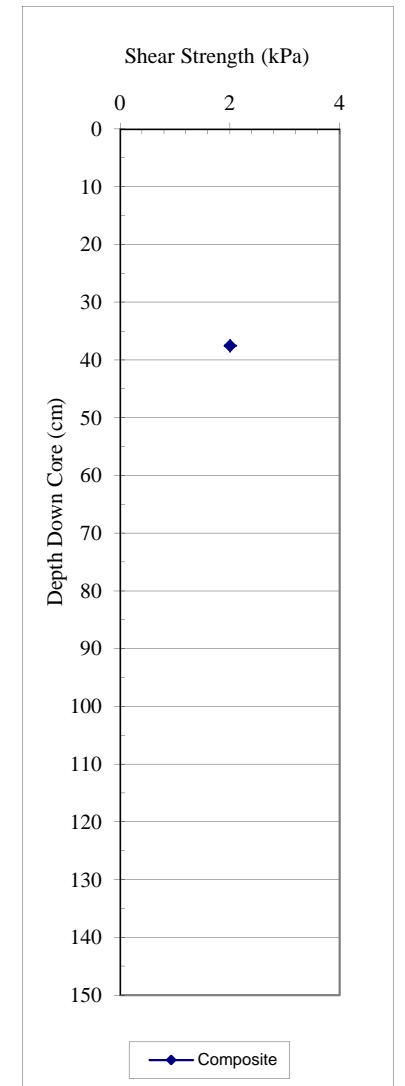
Sample Type: Push Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
7.5	2.30
12.5	2.80
17.5	2.60
22.5	3.10
27.5	3.00
32.5	2.60
37.5	2.00

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
7.5	2.30	
10	4.11	2.40
12.5	2.80	
17.5	2.60	
20	2.86	1.49
22.5	3.10	
27.5	3.00	
30	3.20	2.86
32.5	2.60	
35	2.50	
37.5	2.00	



Cruise No: 2007802

Station: 48

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	41.8	2	6.78	3.3 Y 4.0/9
5	41.61	1.08	4.85	4.7 Y 4.0/7
10	40.84	0.9	4.74	5.5 Y 3.9/7
15	40.1	0.65	4.58	6.5 Y 3.9/7
20	39.59	1.59	6.95	4.6 Y 3.8/1.0
25	40.42	0.92	4.86	5.5 Y 3.9/7
30	40.61	0.83	4.34	5.5 Y 3.9/6

Cruise No: 2008802

Station: 48

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 48

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1456.28	1462.9	11.73
20	1450.84	1470.65	11.96
30	1456.28	1474.56	12.04

Cruise No: 2008802

Station: 49

Sample Type: Push Core

Data Type: Laboratory MST Density

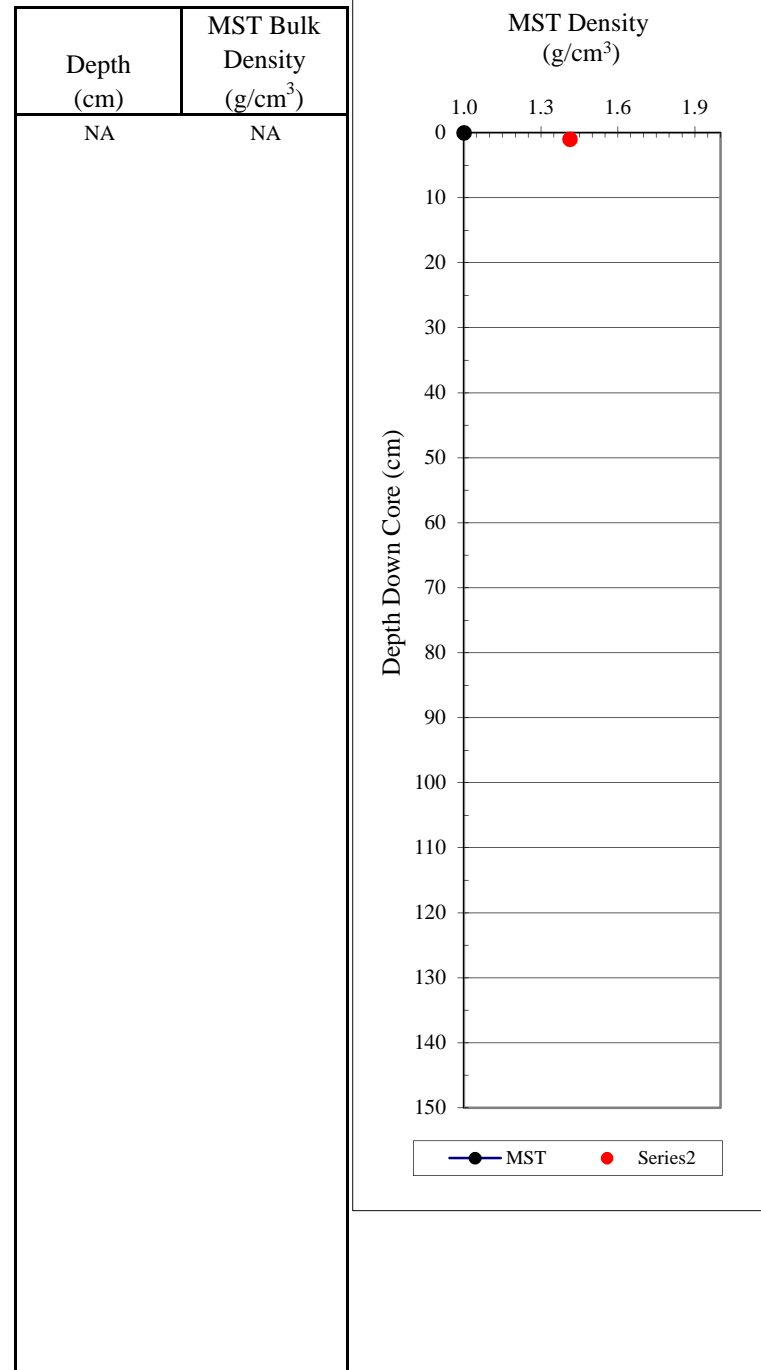
Cruise No: 2008802

Station: 49

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.414	0.691	70.623	2.351	2.404	51.152	104.718
18	1.466	0.710	73.807	2.711	2.818	51.559	106.436
** 38	1.577	0.875	68.512	2.780	2.176	44.486	80.136

Cruise No: 2008802

Station: 49

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: Push Core

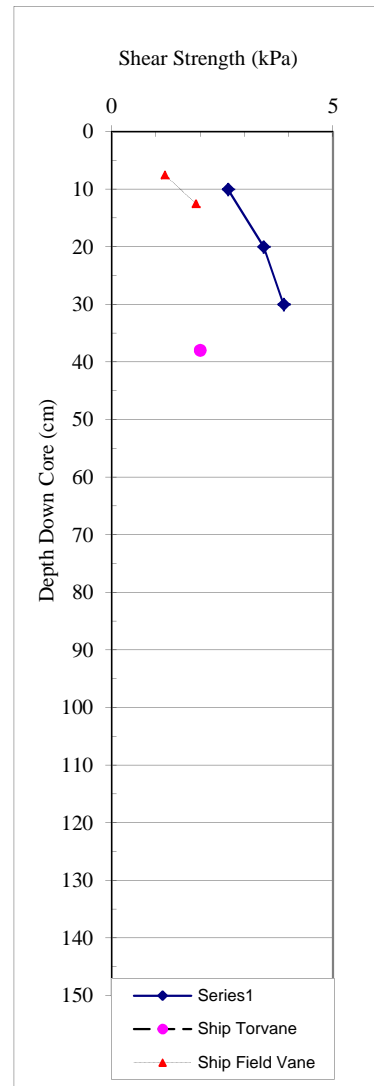
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
** 1	1.414	0.691	70.623	2.351	2.404	51.152	104.718
18	1.466	0.710	73.807	2.711	2.818	51.559	106.436
** 38	1.577	0.875	68.512	2.780	2.176	44.486	80.136

Cruise No: 2008802
 Station: 49
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	2.63		
20	3.43		
30	3.88	2.74	1.42



Cruise No: 2007802
 Station: 49
 Sample Type: Push Core
 Data Type: Shipboard Torvane

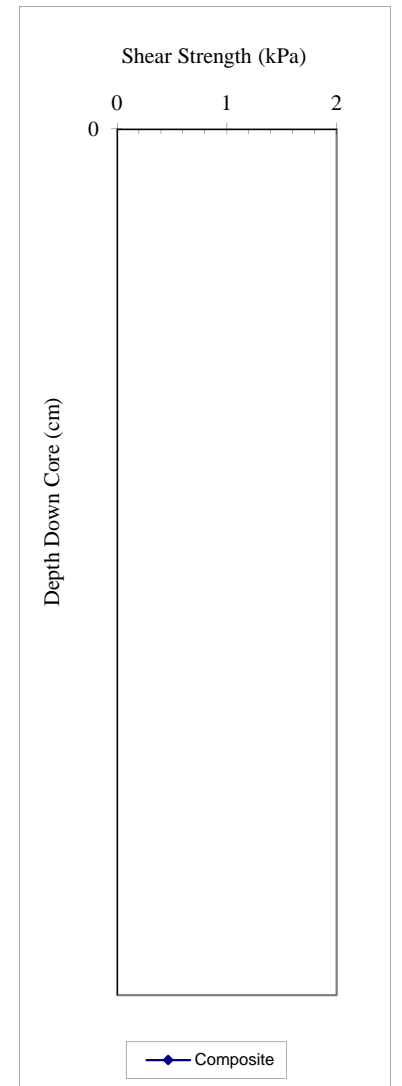
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>(kPa)</u>
38	2.00

Cruise No: 2007802
 Station: 49
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.20
12.5	1.90
17.5	2.20
22.5	2.00
27.5	1.20

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	1.20	
10	2.63	
12.5	1.90	
17.5	2.20	
20	3.43	
22.5	2.00	
27.5	1.20	
30	3.88	2.74
38	2.00	



Cruise No: 2007802

Station: 49

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.84	6.65	40.16	3.8 Y 3.9/9
5	1.02	4.27	39.31	4.5 Y 3.8/6
10	1.23	5.57	40.32	4.7 Y 3.9/8
15	1.11	4.91	41.93	4.6 Y 4.0/7
20	0.85	4.43	41.2	5.4 Y 4.0/6
25	0.71	4.14	41.92	5.8 Y 4.0/6
30	0.66	3.96	40.88	6.0 Y 4.0/6
35	0.22	3.26	42.13	8.0 Y 4.1/5

Cruise No: 2008802

Station: 49

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 49

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1461.77	1470.65	12.11
20	1461.77	1478.48	12.23
30	1456.28	1474.56	12.34

Cruise No: 2008802

Station: 50

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

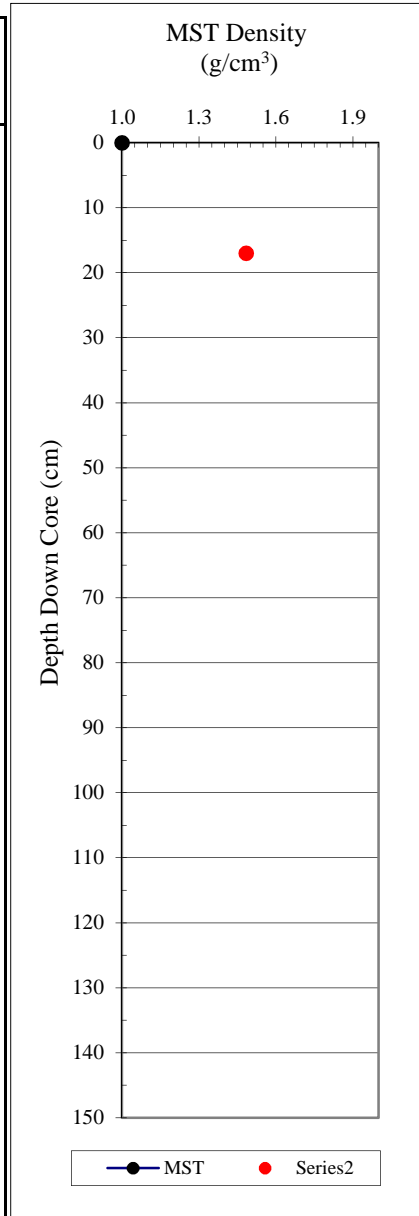
Station: 50

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
17	1.485	0.727	74.041	2.799	2.852	51.061	104.337

Cruise No: 2008802

Station: 50

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: Push Core

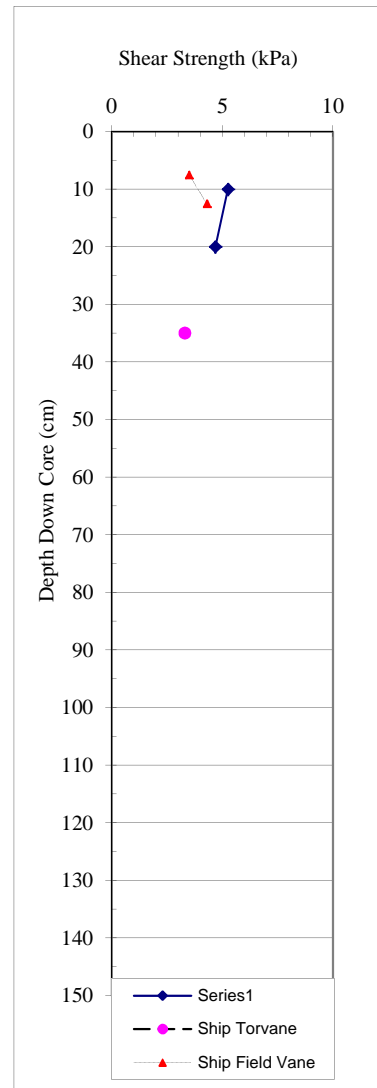
Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
17	1.485	0.727	74.041	2.799	2.852	51.061	104.337

Cruise No: 2008802
 Station: 50
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	5.25	3.20	1.64
20	4.68	4.23	1.11



Cruise No: 2007802
 Station: 50
 Sample Type: Push Core
 Data Type: Shipboard Torvane

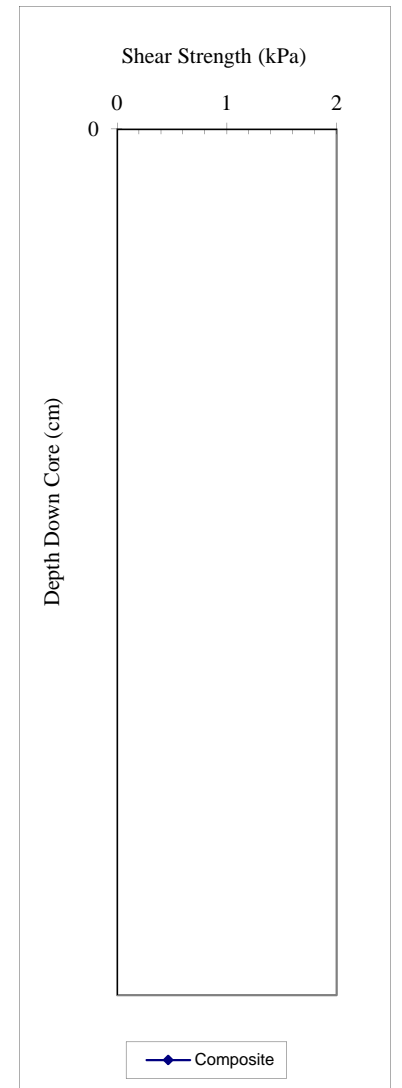
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
35	3.30

Cruise No: 2007802
 Station: 50
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.50
12.5	4.30
17.5	4.50
22.5	4.80
27.5	4.50
32.5	4.50

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
7.5	3.50	
10	5.25	3.20
12.5	4.30	
17.5	4.50	
20	4.68	4.23
22.5	4.80	
27.5	4.50	
32.5	4.50	
35	3.30	



Cruise No: 2007802

Station: 50

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	42.13	0.77	4.41	5.6 Y	4.1/.6
5	43.2	0.39	2.87	6.4 Y	4.2/.4
10	44.04	0.9	3.78	4.3 Y	4.3/.5
15	43.53	0.7	3.28	4.7 Y	4.2/.4
20	41.64	0.55	3.37	5.9 Y	4.0/.5
25	41.66	0.5	3.64	6.6 Y	4.0/.5
30	39.55	0.99	5.09	5.4 Y	3.8/.7

Cruise No: 2008802

Station: 50

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 50

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1478.09	1487.23	17.45

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Cruise No: 2008802

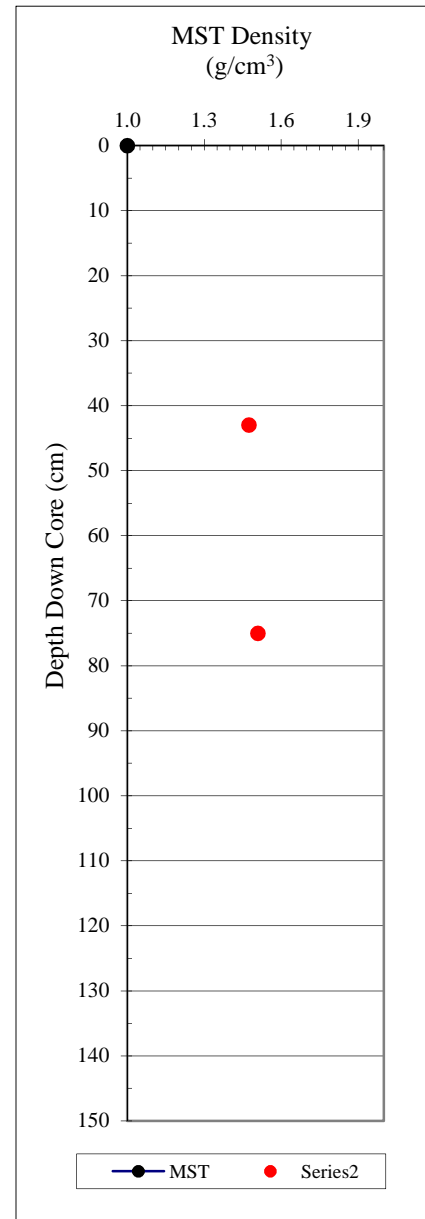
Station: 51

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
43	1.4744	0.7122	74.4246	2.7849	2.91	51.6907	106.9996
** 75	1.509	0.798	69.488	2.614	2.277	47.147	89.203
98	1.544	0.822	70.509	2.788	2.391	46.755	87.810
** 131	1.592	0.886	68.968	2.854	2.222	44.367	79.751

Cruise No: 2008802

Station: 51

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
43	1.4744	0.7122	74.4246	2.7849	2.91	51.6907	106.9996
** 75	1.509	0.798	69.488	2.614	2.277	47.147	89.203
98	1.544	0.822	70.509	2.788	2.391	46.755	87.810
** 131	1.592	0.886	68.968	2.854	2.222	44.367	79.751

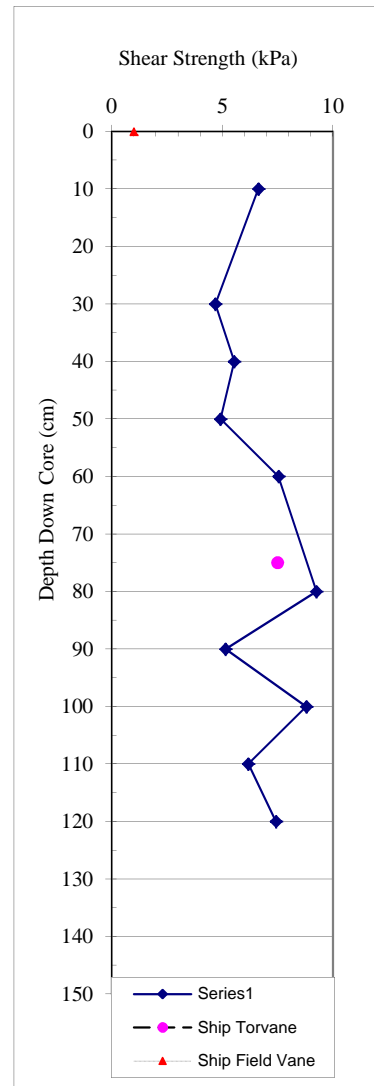
Cruise No: 2008802

Station: 51

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear	Sensitivity
	(kPa)	(kPa)	
10	6.63	3.31	2.00
30	4.68	2.63	1.78
40	5.54	1.99	2.78
50	4.91		
60	7.54	2.17	3.47
80	9.25	5.25	1.76
90	5.14		
100	8.80	4.34	2.03
110	6.17		
120	7.43	2.17	3.42



Cruise No: 2007802

Station: 51

Sample Type: Gravity Core

Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Undrained</u> <u>Shear</u> Shear (kPa)
75	7.50

Cruise No: 2007802

Station: 51

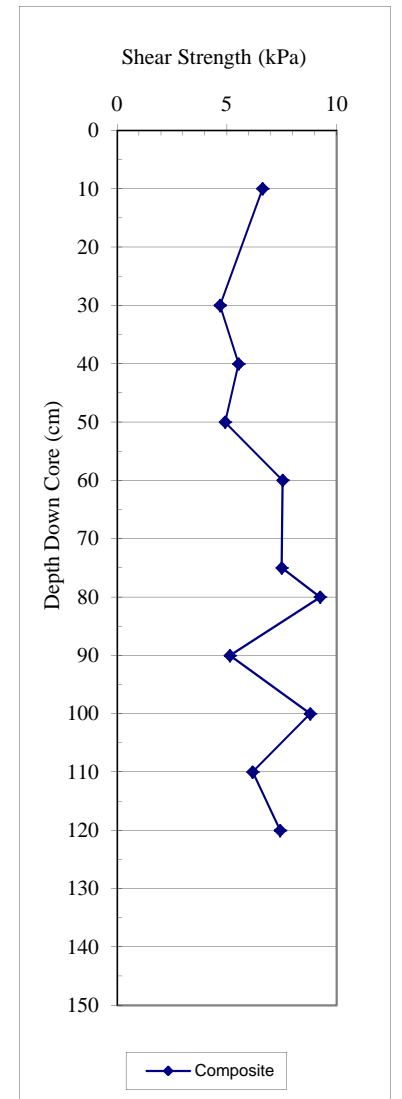
Sample Type: Gravity Core

Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear (kPa)
NA	NA

Composite

Depth Down Core (cm)	<u>Peak</u> <u>Undrained</u> Shear Shear	<u>Remoulded</u> <u>Undrained</u> Shear Shear
	(kPa)	(kPa)
10	6.63	3.31
30	4.68	2.63
40	5.54	1.99
50	4.91	
60	7.54	2.17
75	7.50	
80	9.25	5.25
90	5.14	
100	8.80	4.34
110	6.17	
120	7.43	2.17



Cruise No: 2007802

Station: 51

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	0.5	3.18	40.5	6.1 Y	3.9/4
5	0.48	2.69	44.03	5.3 Y	4.3/4
10	0.43	2.63	41.56	5.9 Y	4.0/4
15	0.4	3.22	39.59	7.1 Y	3.8/5
20	-0.35	0.21	39.47	0.6 G	3.8/1
25	0.33	2.94	39.83	7.4 Y	3.9/4
30	0.07	1.69	43.23	8.4 Y	4.2/2
35	0.15	2.42	39.19	8.1 Y	3.8/4
40	0.03	2.08	38.42	8.8 Y	3.7/3
45	0.64	3.8	39.93	6.0 Y	3.9/5
50	0.1	2.16	40.34	8.4 Y	3.9/3
55	0.5	3.32	41.11	6.4 Y	4.0/5
60	0.4	3.07	41.88	6.7 Y	4.1/4
65	0.56	3.56	40.73	6.1 Y	3.9/5
70	0.35	2.54	40.6	6.5 Y	3.9/4
75	0.24	2.5	38.86	7.7 Y	3.8/4
80	-0.35	0.76	39.16	5.4 GY	3.8/2
85	0.15	2.13	41.41	7.9 Y	4.0/3
90	-0.14	0.6	41.93	2.3 GY	4.1/1
95	0.09	1.75	45.47	8.2 Y	4.4/3
100	0.25	2.38	42.09	7.2 Y	4.1/3
105	0.21	2.02	43.25	7.4 Y	4.2/3
110	-0.16	1.52	38.18	0.6 GY	3.7/3
115	-0.24	1.18	38.14	1.9 GY	3.7/2
120	0.06	1.4	43.82	8.4 Y	4.2/2
125	-0.07	1.08	43.28	9.9 Y	4.2/2
130	0.85	3.67	41.25	4.5 Y	4.0/5

Cruise No: 2008802

Station: 51

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 51

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1483.77		17.44
30	1480.93		17.56
40	1480.93		17.63
50	1483.77		17.67
60	1480.93		17.69
80	1483.77		17.51
90	1478.09		17.57
110	1480.93		17.63
120	1486.62		17.69

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Laboratory MST Density

Cruise No: 2008802

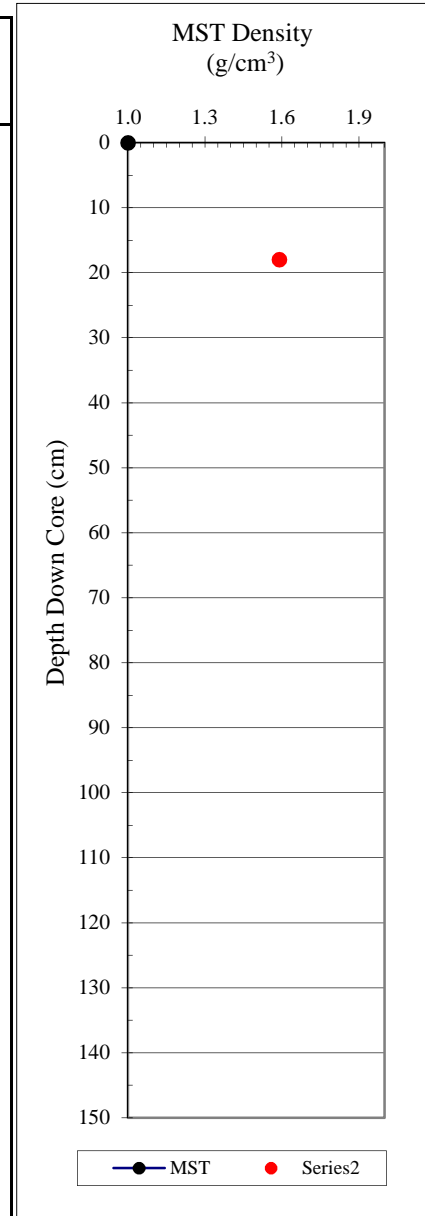
Station: 53

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth (cm)	MST Bulk Density (g/cm ³)
NA	NA



Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.590	0.894	67.924	2.789	2.118	43.746	77.764

Cruise No: 2008802

Station: 53

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
18	1.590	0.894	67.924	2.789	2.118	43.746	77.764

Cruise No: 2008802
 Station: 53
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
4	1.94		
15	9.25	1.71	5.40
25	6.97	7.54	0.92

Cruise No: 2007802
 Station: 53
 Sample Type: Push Core
 Data Type: Shipboard Torvane

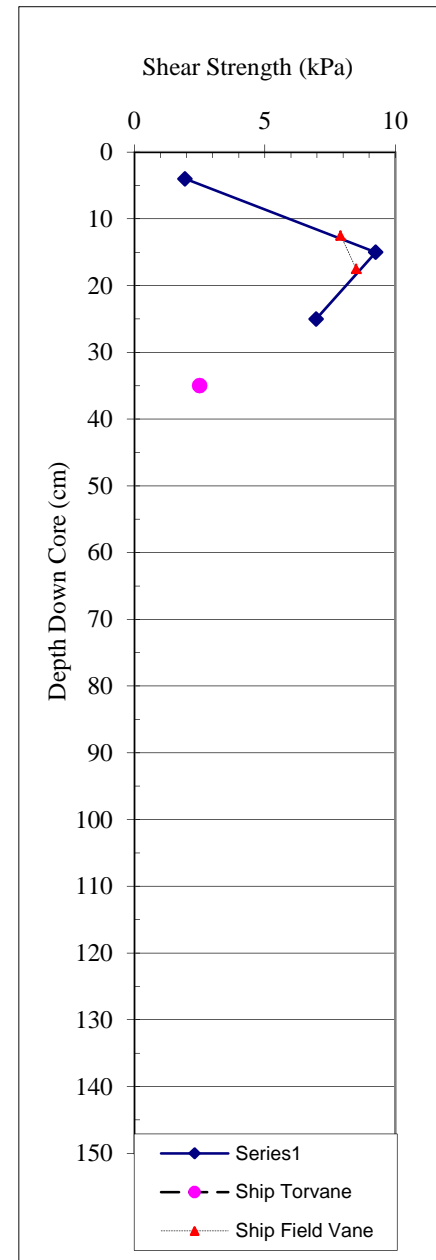
<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
35	2.50

Cruise No: 2007802
 Station: 53
 Sample Type: Push Core
 Data Type: Shipboard Field HandVane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
12.5	7.90
17.5	8.50
22.5	7.80
27.5	6.70
32.5	0.80

Composite

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
4	1.94	
12.5	7.90	
15	9.25	1.71
17.5	8.50	
22.5	7.80	
25	6.97	7.54
27.5	6.70	
32.5	0.80	
35	2.50	



Cruise No: 2007802

Station: 53

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
2	41.87	0.87	3.58	4.2 Y	4.0/5
5	42.26	0.9	3.67	4.3 Y	4.1/5
10	42.13	0.54	2.87	5.7 Y	4.1/4
15	44.68	0.43	2.61	5.9 Y	4.3/4
20	42.4	0.13	2.14	8.1 Y	4.1/3
25	41.72	0.28	2.86	7.6 Y	4.0/4
30	41.8	0.62	2.87	4.8 Y	4.0/4
35	42.52	0.2	1.48	6.6 Y	4.1/2

Cruise No: 2008802

Station: 53

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
NA	NA

Cruise No: 2008802

Station: 53

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1483.77	1491.26	17.51
15	1492.37	1507.59	17.5
25	1503.99	1499.38	17.57

Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.5162	0.8514	64.9233	2.4272	1.8509	43.8474	78.086
10	1.5164	0.8535	64.7409	2.4206	1.8361	43.7173	77.6744

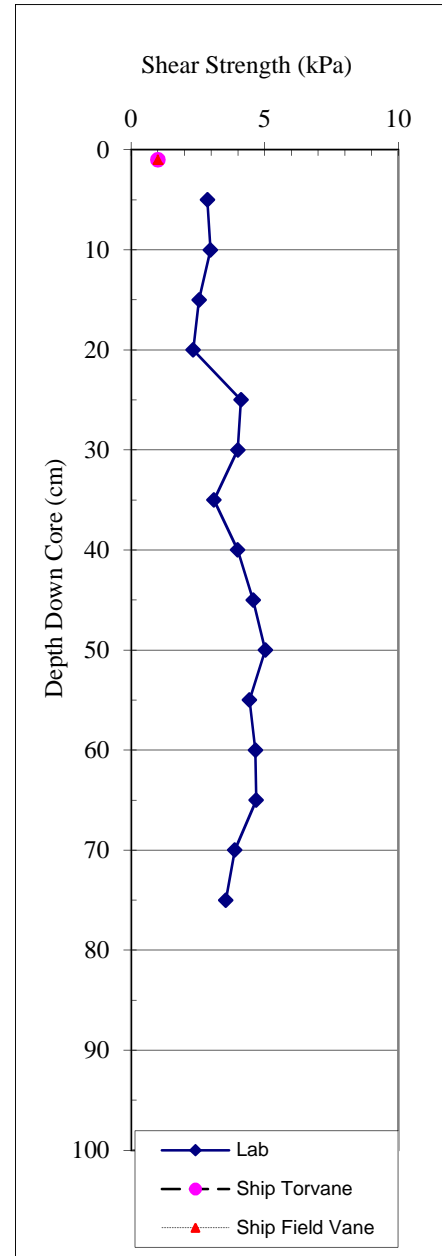
Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.86	1.71	1.67
10	2.97		
15	2.55	1.77	1.44
20	2.33		
25	4.11	2.40	1.71
30	4.00		
35	3.10	2.66	1.17
40	3.99		
45	4.57	3.31	1.38
50	5.03		
55	4.43	1.77	2.50
60	4.65		
65	4.68	1.83	2.56
70	3.88		
75	3.54	2.10	1.68



Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
20	1.71	6.01	40.8	3.6 Y	3.9/8
25	1.72	6.13	40.83	3.7 Y	3.9/8
30	1.69	5.56	39.75	3.3 Y	3.8/8
35	1.6	4.69	45.07	2.6 Y	4.3/6
40	1.44	4.59	43.86	3.2 Y	4.2/6
45	1.36	4.6	44.15	3.4 Y	4.3/6
50	2.3	6.71	43.77	2.0 Y	4.2/9
55	1.63	5.84	40.48	3.7 Y	3.9/8
60	1.53	5.35	42.36	3.5 Y	4.1/7
65	1.69	5.93	42.19	3.5 Y	4.1/8
70	1.61	5.32	42.41	3.3 Y	4.1/7
75	1.94	6.29	41.34	3.2 Y	4.0/9

45.09 0.61 2.98

Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 36

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1447.49	1455.43	
15	1458.48	1455.43	
25	1458.58	1458.48	
35	1458.48	1451.53	
45	1464.03	1475.27	
55	1469.63	1475.27	
65	1458.48	1459.36	
75	1461.25	1459.36	

Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.4968	0.8161	66.4799	2.4346	1.9833	45.4799	83.4186
10	1.5926	0.8724	70.3345	2.9408	2.3709	45.2227	82.5572

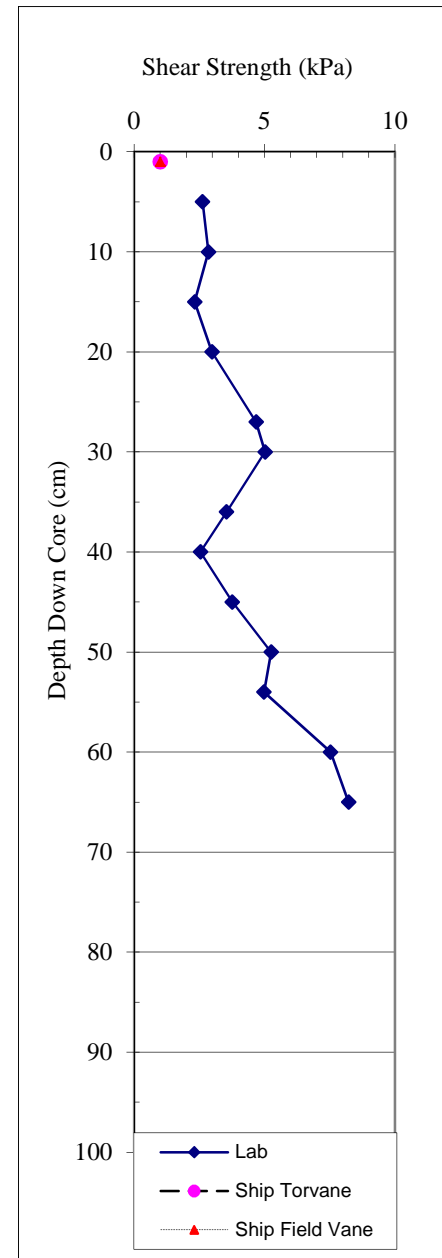
Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	2.63	2.28	1.15
10	2.86	2.51	1.14
15	2.33	1.66	1.40
20	2.99	2.44	1.23
27	4.68	3.43	1.37
30	5.03	1.49	3.38
36	3.54	1.77	2.00
40	2.55	2.44	1.05
45	3.77	2.74	1.37
50	5.25	1.60	3.29
54	4.98	2.88	1.73
60	7.53	2.22	3.40
65	8.22	4.34	1.89



Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.36	4.96	41.32	3.7 Y 4.0/7
10	0.78	3.32	45.13	4.2 Y 4.4/5
15	1.01	4.42	41.16	4.5 Y 4.0/6
20	0.95	4.26	39.61	4.7 Y 3.8/6
25	0.7	2.98	43.67	4.4 Y 4.2/4
30	0.74	2.86	44.44	3.9 Y 4.3/4
35	0.54	2.1	42.81	3.8 Y 4.1/3
40	0.73	3.34	43.11	4.5 Y 4.2/5
45	0.9	4.15	40.03	4.8 Y 3.9/6
50	1.17	4.71	41.35	4.1 Y 4.0/6
55	0.86	4.1	39.02	4.9 Y 3.8/6
60	0.66	3.68	39.34	5.5 Y 3.8/5
65	0.85	4.05	40.4	4.8 Y 3.9/6

45.09 0.61 2.98

Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 37

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Tempreture (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
5	1466.83	1459.36	12.92
15	1464.03	1459.36	13.13
25	1478.11	1471.26	13.54
35	1478.11	1487.44	14.25
45	1486.68	1483.36	14.53
55	1492.46	1525.17	14.65
64	1507.09	1499.81	14.81

Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
NA			
average	#DIV/0!		

Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.6268	0.9818	62.9863	2.6526	1.7017	39.6471	65.692
10	1.6267	0.9843	62.734	2.6413	1.6834	39.4909	65.2644

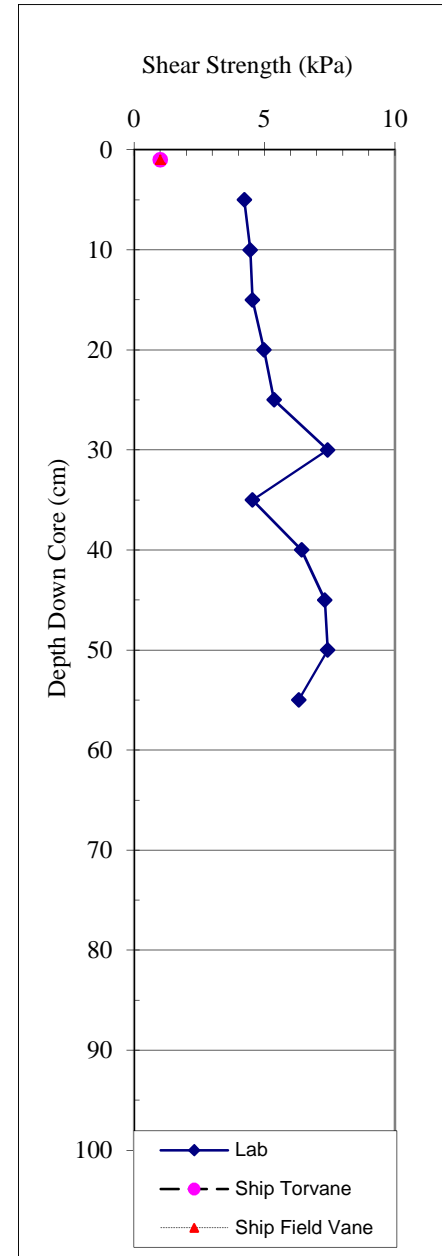
Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	4.23	0.57	7.40
10	4.46	1.37	3.25
15	4.54	2.10	2.16
20	4.98	2.66	1.88
25	5.37	2.97	1.81
30	7.43	0.69	10.83
35	4.54	5.32	0.85
40	6.42	2.55	2.52
45	7.31	2.40	3.05
50	7.43	2.17	3.42
55	6.31	1.11	5.70



Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
5	0.95	3.76	43.17	4.0 Y	4.2/5
10	0.63	3	42.22	4.8 Y	4.1/4
15	0.61	2.72	42	4.5 Y	4.1/4
20	0.49	2.54	44.25	4.9 Y	4.3/3
25	0.6	2.87	43.17	4.7 Y	4.2/4
30	0.55	2.79	41.18	5.1 Y	4.0/4
35	0.46	2.3	46.14	4.7 Y	4.5/3
40	0.51	2.51	43.75	4.7 Y	4.2/3
45	0.9	4.15	39.67	4.7 Y	3.8/6
50	0.87	4.08	40.98	4.7 Y	4.0/6

Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

	MST Bulk
Depth	Velocity
(cm)	(m/sec)

NA

Cruise No: 2009801

Station: 38

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1480.96	1475.27	13.42
15	1486.68	1483.36	13.78
25	1478.11	1479.3	13.93
35	1483.81	1487.44	14.26
45	1486.68	1487.44	14.37

Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.5736	0.9198	63.8529	2.5445	1.7665	41.5507	71.0884
10	1.6727	1.0025	65.4483	2.9014	1.8942	40.0673	66.8537

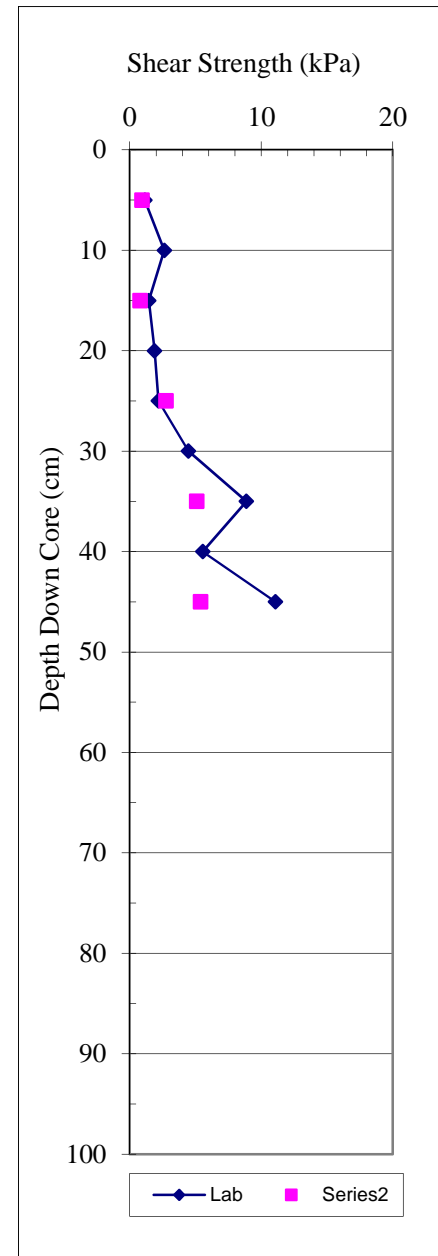
Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	1.14	0.91	1.25
10	2.63		
15	1.44	0.78	1.86
20	1.88		
25	2.17	2.74	0.79
30	4.46		
35	8.86	5.10	1.74
40	5.54		
45	11.08	5.37	2.06



Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.82	3.22	43.56	
10	0.68	3.28	44.07	
15	0.76	3.47	42.97	
20	0.86	3.59	42.62	
25	1.02	4.23	40.89	
30	0.79	3.83	40.11	
35	0.88	4.09	39.5	
40	0.7	3.4	42.22	
45	0.6	2.81	41.26	

Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

NA

Cruise No: 2009801

Station: 39

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1480.96	1475.27	13.42
15	1486.68	1483.36	13.78
25	1478.11	1479.3	13.93
35	1483.81	1487.44	14.26
45	1486.68	1487.44	14.37

Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
---------------	------------------------

NA



Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.763	1.194	55.565	2.687	1.251	32.273	47.652
7	2.027	1.812	21.035	2.294	0.266	10.627	11.891

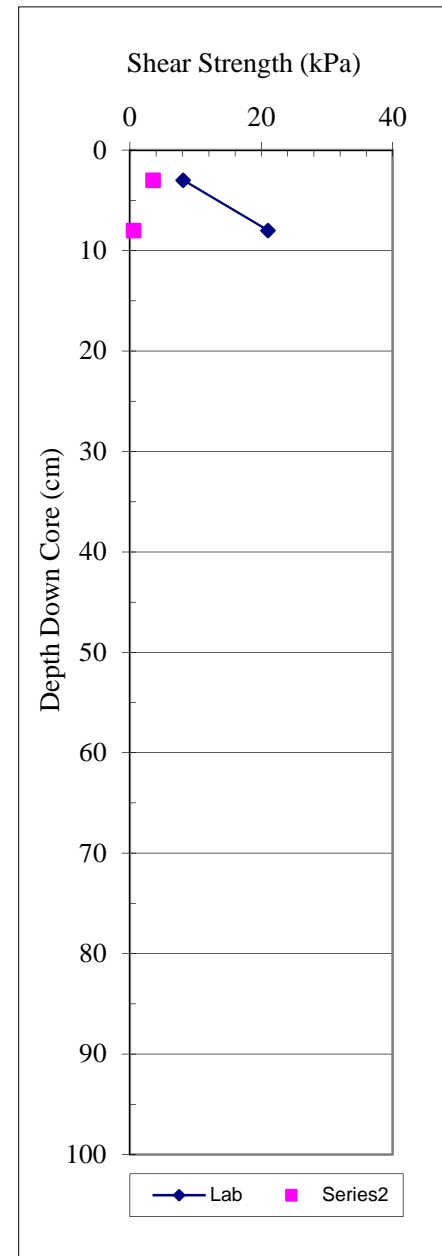
Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
3	8.11	3.54	2.29
8	21.02	0.57	36.87



Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
3	0.61	2.5	43.88	
8	0.6	2.09	40.43	

Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

NA

Cruise No: 2009801

Station: 40

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5		1713.53	21.12

Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.7718	1.1621	59.5442	2.8725	1.4718	34.4124	52.4678
37	1.6644	1.0366	61.3114	2.6794	1.5847	37.7202	60.5656

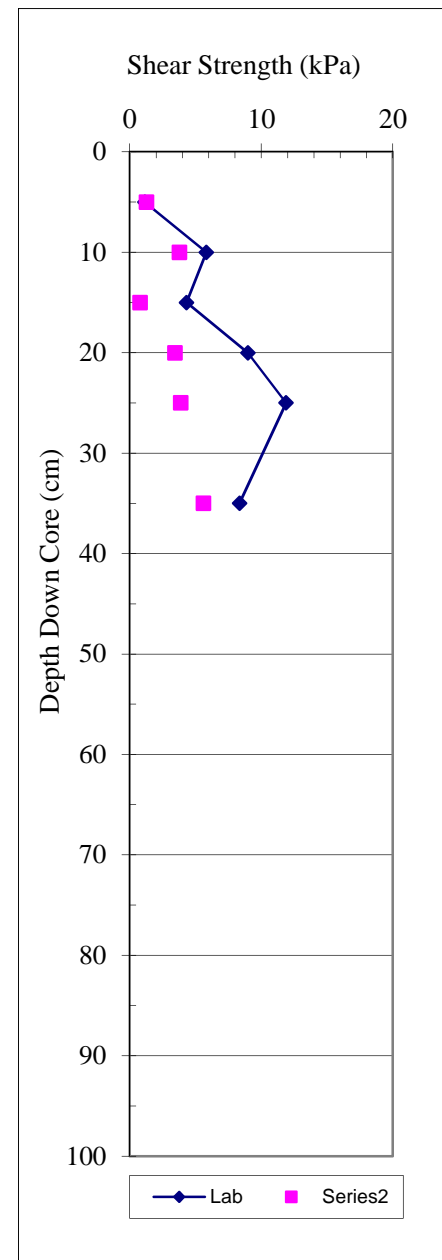
Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	1.14	1.26	0.91
10	5.83	3.77	1.55
15	4.32	0.78	5.54
20	8.97	3.43	2.62
25	11.88	3.88	3.06
35	8.34	5.60	1.49



Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	0.33	2.45	42.28	6.4 Y 4.1/3
10	0.46	3.25	39.7	6.4 Y 3.8/5
15	0.57	3.33	39.25	5.7 Y 3.8/5
20	0.63	3.54	39.75	5.5 Y 3.8/5
25	0.42	2.81	41.18	6.0 Y 4.0/4
30	0.18	2.15	41.83	7.5 Y 4.1/3
35	0.44	2.66	41.79	5.7 Y 4.0/4
40	0.2	1.81	43.97	6.9 Y 4.3/3

Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
---------------	---------------------------------

NA

Cruise No: 2009801

Station: 41

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1483.81	1508.17	12.95
15	1501.2	1512.38	13.32
23	1513.02	1508.17	13.46
35	1478.11	1483.36	10.93

Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

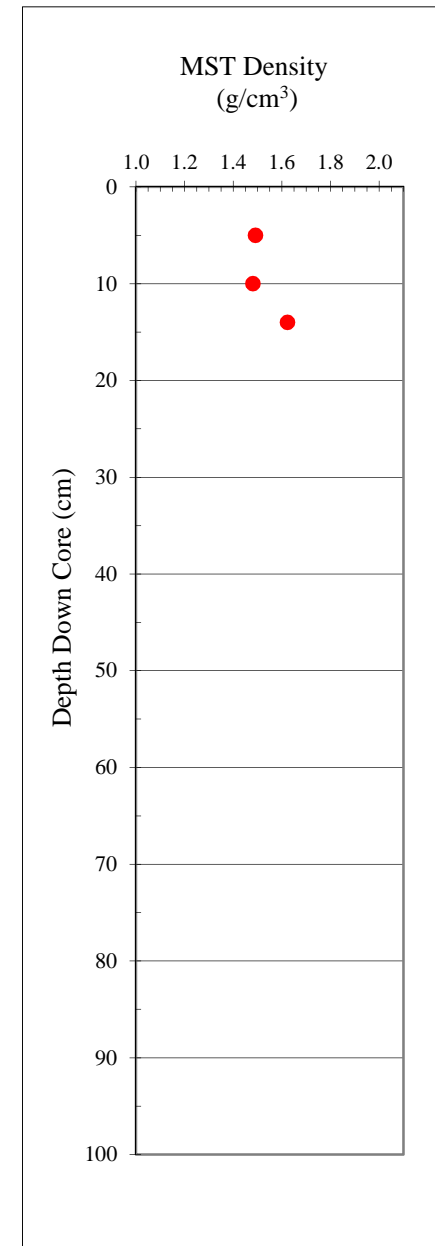
Station: 42

Sample Type: Gravity Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.4913	0.7684	70.6014	2.6137	2.4015	48.4768	94.0872
10	1.4816	0.7688	69.6106	2.5297	2.2906	48.1119	92.7224
14	1.6237	1.0161	59.3394	2.499	1.4594	37.4221	59.8009



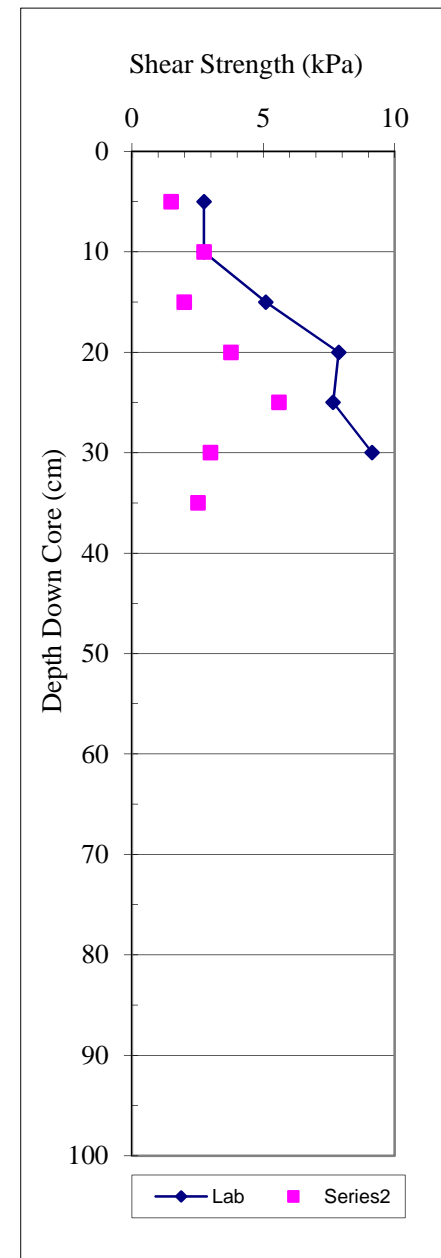
Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	2.74	1.49	1.85
10	2.74	2.74	1.00
15	5.10	1.99	2.56
20	7.86	3.77	2.09
25	7.65	5.60	1.37
30	9.14	2.99	3.06
35	12.41	2.51	4.94



Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.21	4.98	40.15	4.3 Y 3.9/7
10	-0.4	0.13	33.28	3.0 G 3.2/1
15	0.42	2.28	43.88	5.0 Y 4.2/3
20	0.25	2.02	44.43	6.2 Y 4.3/3
25	0.21	1.56	45.49	6.0 Y 4.4/2
30	0.24	1.02	49	4.4 Y 4.7/1
35	0.32	2.1	41.38	6.1 Y 4.0/3

Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 42

Sample Type: Gravity Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1467.14	1458.25	13.21
15	1487.11	1490.9	13.27
25	1501.71	1490.9	13.49

Cruise No: 2009801

Station: 43

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	

NA



Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.3749	0.5879	76.8636	2.5408	3.3222	57.2448	133.8895
10	1.3446	0.5878	73.9096	2.2528	2.8328	56.2867	128.7634
30	1.5211	0.8475	65.7783	2.4767	1.9221	44.2811	79.4724

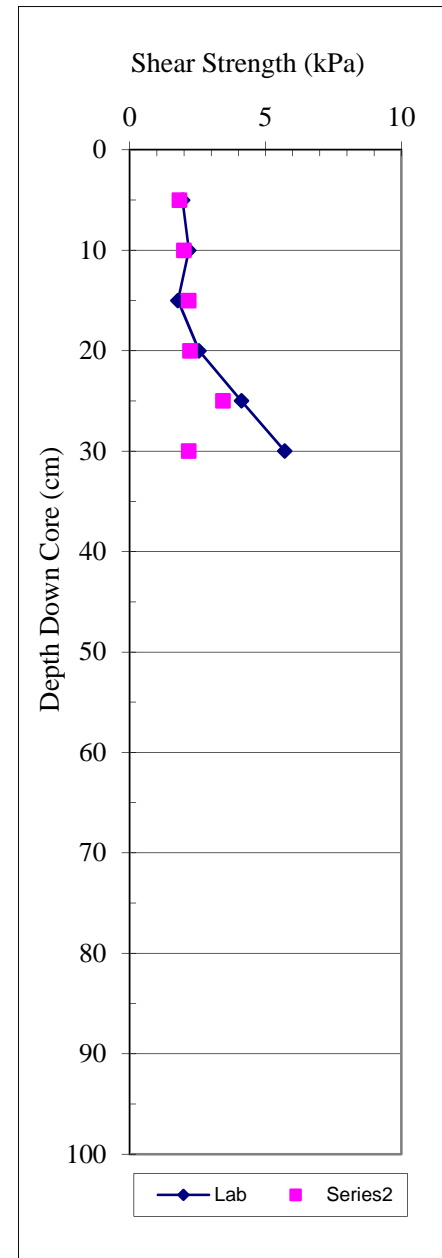
Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	1.94	1.83	1.06
10	2.17	1.99	1.09
15	1.77	2.17	0.82
20	2.55	2.22	1.15
25	4.11	3.43	1.20
30	5.71	2.17	2.63



Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	1.57	5.76	40.37	3.9 Y 3.9/8
5	1.37	5.42	40.78	4.3 Y 3.9/7
10	1.28	5.2	40.19	4.3 Y 3.9/7
15	0.65	3.35	43.29	5.0 Y 4.2/5
20	0.49	2.87	44.15	5.5 Y 4.3/4
25	0.09	2.07	38.03	8.6 Y 3.7/3
30	0.46	2.69	41.78	6.0 Y 4.0/4
35	0.06	1.22	44.04	8.4 Y 4.3/2

Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 43

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1450.45	1446.38	12.62
15	1444.97	1446.38	13.37
25	1455.97	1423.19	12.57

Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
---------------	------------------------

NA



Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.4846	0.7517	71.5776	2.6447	2.5184	49.3691	97.508
10	1.4564	0.7099	72.8994	2.6195	2.69	51.2562	105.1541

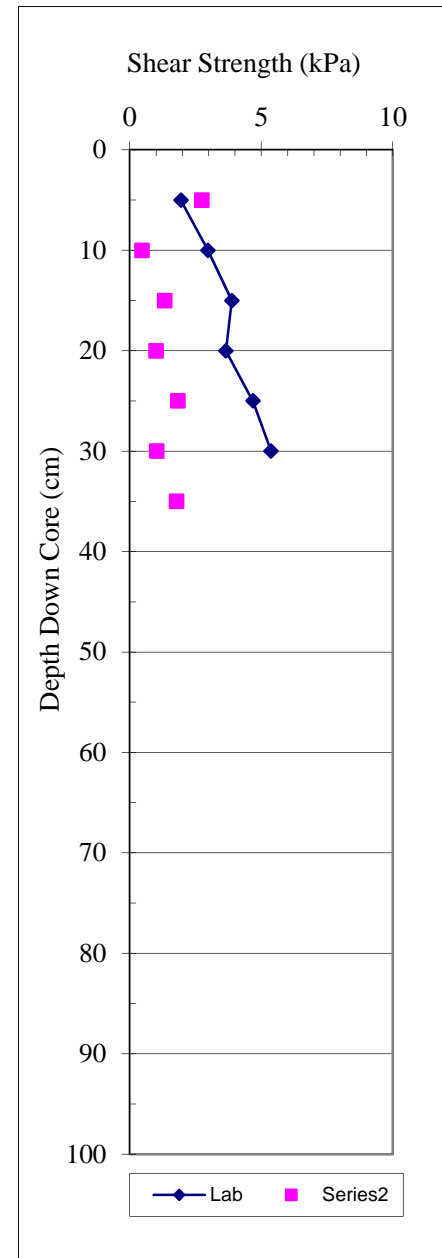
Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	1.94	2.74	0.71
10	2.97	0.46	6.50
15	3.88	1.33	2.92
20	3.66	1.00	3.67
25	4.68	1.83	2.56
30	5.37	1.03	5.22
35	4.76	1.77	2.69
40	4.76	3.43	1.39



Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>					
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>	
1	1.79	6.2	40.72	3.7 Y	3.9/8
5	0.5	2.76	43.46	5.5 Y	4.2/4
10	0.4	2.98	40.66	6.6 Y	3.9/4
15	0.31	2.79	39.37	7.4 Y	3.8/4
20	0.54	3.5	39.22	6.5 Y	3.8/5
25	0.47	2.74	41.39	5.6 Y	4.0/4
30	0.4	2.3	42.48	5.8 Y	4.1/3
35	0.45	2.89	42.78	6.1 Y	4.1/4
40	0.49	2.42	39.69	5.5 Y	3.8/3

Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 44

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1447.7	1442.46	8.72
15	1442.24	1438.56	8.91
25	1453.2	1458.25	9.35
35	1453.2	1438.56	9.49

Cruise No: 2009801

Station: 45

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
NA	

NA



Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.4131						
10	1.4727	0.7603	69.5727	2.4987	2.2865	48.3752	93.7052

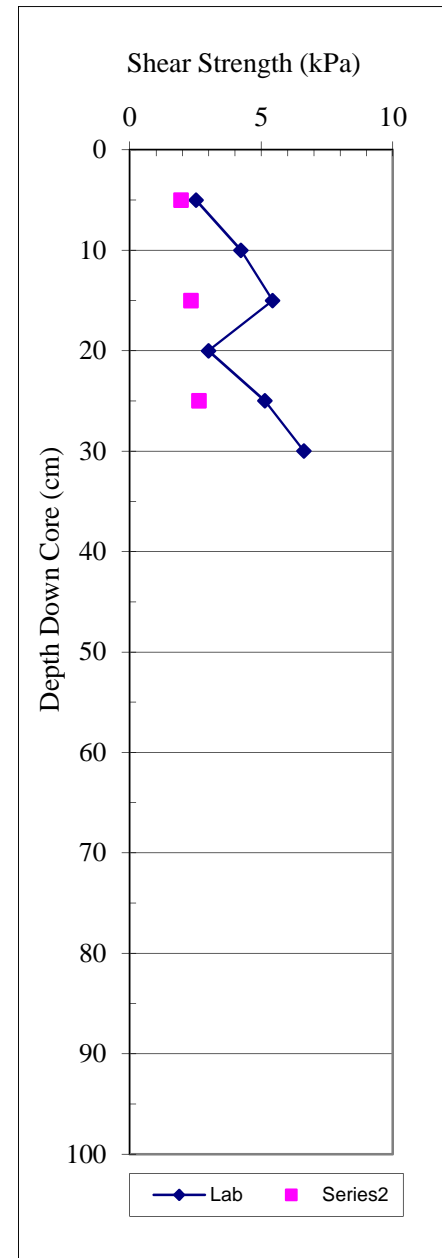
Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	2.51	1.94	1.29
10	4.23		
15	5.43	2.33	2.33
20	2.99		
25	5.14	2.63	1.96
30	6.63		



Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	1.75	6.47	40.68	3.9 Y 3.9/9
5	1.49	5.19	40.26	3.7 Y 3.9/7
10	1.5	5.51	41.09	3.9 Y 4.0/7
15	0.99	4.54	39.8	4.8 Y 3.8/6
20	0.85	4.4	39.76	5.2 Y 3.8/6
25	1.35	5.02	40.06	4.0 Y 3.9/7
30	1.41	5.2	40.82	3.9 Y 3.9/7
35	0.77	3.1	43.28	4.3 Y 4.2/4

Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 45

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1453.2	1446.38	7.7
15	1447.7	1454.27	7.98
25	1467.14	1450.31	8.28

Cruise No: 2009801

Station: 47

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.633	1.005	61.315	2.599	1.585	38.443	62.452
10	1.563	0.880	66.728	2.643	2.006	43.723	77.691
30	1.643	1.010	61.832	2.645	1.620	38.542	62.712

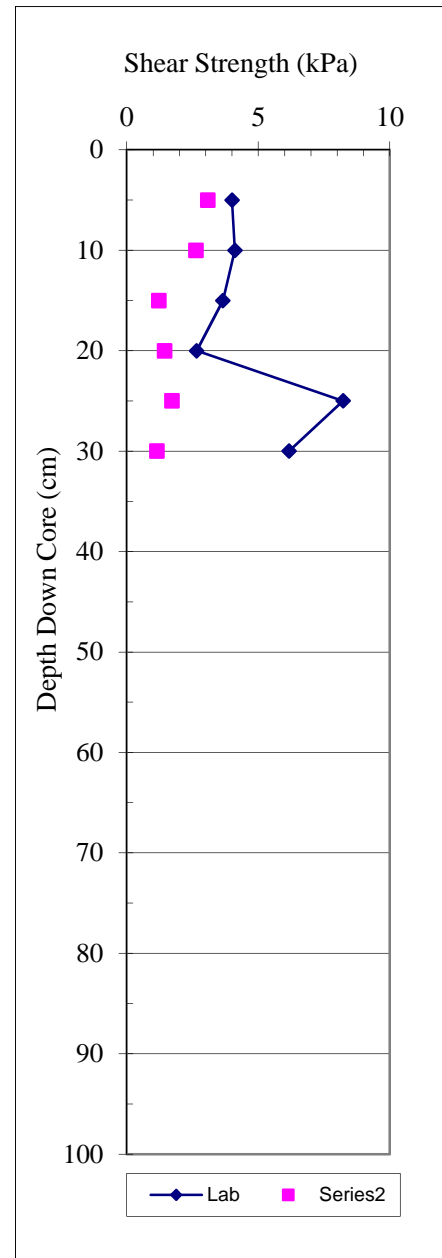
Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	4.00	3.08	1.30
10	4.11	2.63	1.57
15	3.66	1.22	3.00
20	2.66	1.44	1.85
25	8.22	1.71	4.80
30	6.17	1.14	5.40



Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
5	1.25	4.89	40.92	4.3 Y 3.9/7
10	0.85	3.56	40.92	4.5 Y 4.0/5
15	0.99	4.04	39.69	4.5 Y 3.8/6
20	0.81	3.86	40.36	4.9 Y 3.9/5
25	-0.24	0.88	36.04	3.0 GY 3.5/2
30	-0.54	-0.54	30.92	6.1 B 3.0/1

Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 47

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1519.6	1499.3	7.54
15	1478.5	1486.7	8.38
25	1490.0	1516.4	8.59

Cruise No: 2009801

Station: 51

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
	NA		
average	#DIV/0!		

Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
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NA



Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Laboratory MST Resistivity (Ohm/m)

Depth (cm)	Resistivity (Ohm/m)
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NA



Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

** Shipboard

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.5819						
10	1.6154						

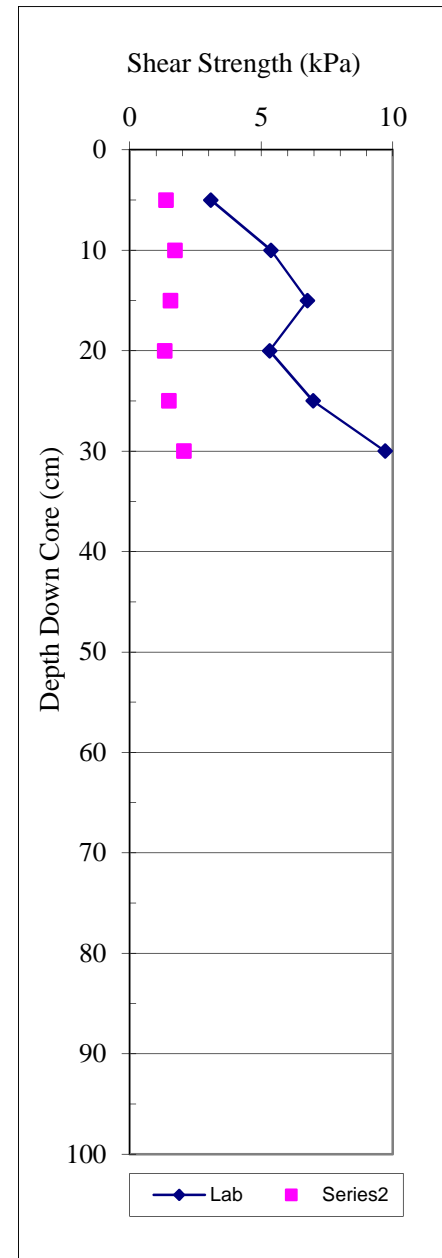
Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down Core (cm)</u>	<u>Peak Undrained Shear Shear (kPa)</u>	<u>Remoulded Undrained Shear Shear (kPa)</u>	<u>Sensitivity</u>
5	3.08	1.37	2.25
10	5.37	1.71	3.13
15	6.76	1.55	4.36
20	5.32	1.33	4.00
25	6.97	1.49	4.69
30	9.71	2.06	4.72



Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	0.24	2.21	43.05	7.8 Y 4.2/3
5	0.82	4.63	39.6	6.1 Y 3.8/7
10	0	2	41.43	9.3 Y 4.0/3
15	0.13	2.65	38.73	8.7 Y 3.8/4
20	0.23	2.24	42.52	7.8 Y 4.1/3
25	0.28	2.8	38.43	7.9 Y 3.7/4
30	0.03	2.38	37.46	9.1 Y 3.6/4
35	-0.15	1.46	41.51	0.8 GY 4.0/2

Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
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NA

Cruise No: 2009801

Station: 51

Sample Type: Push Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1481.4	1474.4	9.02
15	1495.8	1486.7	9.17
25	1501.7	1486.7	9.5
35	1495.83	1495.08	9.65

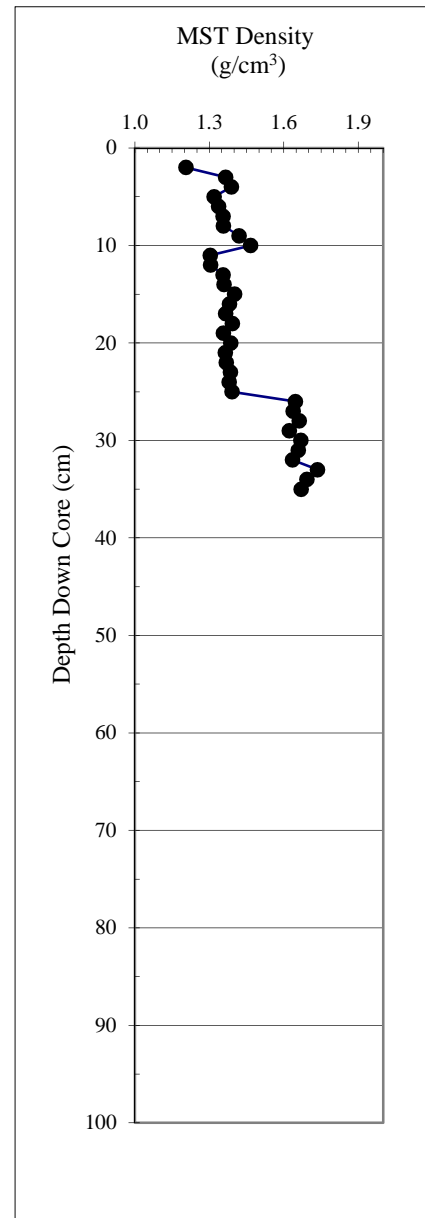
Cruise No: 2009804

Station: 2

Sample Type: Push Core

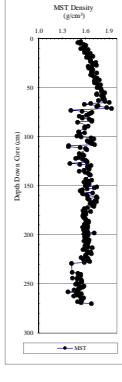
Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.21	0.036	0.04
3	1.37	0.030	0.07
4	1.39	0.034	0.10
5	1.32	0.031	0.13
6	1.34	0.031	0.16
7	1.36	0.032	0.19
8	1.36	0.034	0.23
9	1.42	0.038	0.27
10	1.47	0.038	0.30
11	1.30	0.031	0.34
12	1.31	0.029	0.36
13	1.36	0.031	0.40
14	1.36	0.034	0.43
15	1.40	0.036	0.47
16	1.38	0.035	0.50
17	1.37	0.035	0.54
18	1.39	0.035	0.57
19	1.36	0.034	0.60
20	1.39	0.034	0.64
21	1.36	0.034	0.67
22	1.37	0.034	0.71
23	1.39	0.035	0.74
24	1.38	0.035	0.78
25	1.39	0.042	0.82
26	1.65	0.055	0.87
27	1.64	0.061	0.93
28	1.66	0.061	1.00
29	1.62	0.061	1.06
30	1.67	0.062	1.12
31	1.66	0.062	1.18
32	1.64	0.063	1.24
33	1.74	0.066	1.31
34	1.69	0.066	1.38
35	1.67	0.032	1.41



Cross No. 200606
Sample Type: Soils
Date Type: Julian Day

Depth	NST Bulk Density	Moisture Content	Total
0	1.54	0.15	0.15
1	1.57	0.22	0.22
2	1.59	0.35	0.35
3	1.54	0.35	0.35
4	1.54	0.35	0.35
5	1.54	0.35	0.35
6	1.54	0.35	0.35
7	1.54	0.35	0.35
8	1.54	0.35	0.35
9	1.54	0.35	0.35
10	1.54	0.35	0.35
11	1.54	0.35	0.35
12	1.54	0.35	0.35
13	1.54	0.35	0.35
14	1.54	0.35	0.35
15	1.54	0.35	0.35
16	1.54	0.35	0.35
17	1.54	0.35	0.35
18	1.54	0.35	0.35
19	1.54	0.35	0.35
20	1.54	0.35	0.35
21	1.54	0.35	0.35
22	1.54	0.35	0.35
23	1.54	0.35	0.35
24	1.54	0.35	0.35
25	1.54	0.35	0.35
26	1.54	0.35	0.35
27	1.54	0.35	0.35
28	1.54	0.35	0.35
29	1.54	0.35	0.35
30	1.54	0.35	0.35
31	1.54	0.35	0.35
32	1.54	0.35	0.35
33	1.54	0.35	0.35
34	1.54	0.35	0.35
35	1.54	0.35	0.35
36	1.54	0.35	0.35
37	1.54	0.35	0.35
38	1.54	0.35	0.35
39	1.54	0.35	0.35
40	1.54	0.35	0.35
41	1.54	0.35	0.35
42	1.54	0.35	0.35
43	1.54	0.35	0.35
44	1.54	0.35	0.35
45	1.54	0.35	0.35
46	1.54	0.35	0.35
47	1.54	0.35	0.35
48	1.54	0.35	0.35
49	1.54	0.35	0.35
50	1.54	0.35	0.35
51	1.54	0.35	0.35
52	1.54	0.35	0.35
53	1.54	0.35	0.35
54	1.54	0.35	0.35
55	1.54	0.35	0.35
56	1.54	0.35	0.35
57	1.54	0.35	0.35
58	1.54	0.35	0.35
59	1.54	0.35	0.35
60	1.54	0.35	0.35
61	1.54	0.35	0.35
62	1.54	0.35	0.35
63	1.54	0.35	0.35
64	1.54	0.35	0.35
65	1.54	0.35	0.35
66	1.54	0.35	0.35
67	1.54	0.35	0.35
68	1.54	0.35	0.35
69	1.54	0.35	0.35
70	1.54	0.35	0.35
71	1.54	0.35	0.35
72	1.54	0.35	0.35
73	1.54	0.35	0.35
74	1.54	0.35	0.35
75	1.54	0.35	0.35
76	1.54	0.35	0.35
77	1.54	0.35	0.35
78	1.54	0.35	0.35
79	1.54	0.35	0.35
80	1.54	0.35	0.35
81	1.54	0.35	0.35
82	1.54	0.35	0.35
83	1.54	0.35	0.35
84	1.54	0.35	0.35
85	1.54	0.35	0.35
86	1.54	0.35	0.35
87	1.54	0.35	0.35
88	1.54	0.35	0.35
89	1.54	0.35	0.35
90	1.54	0.35	0.35
91	1.54	0.35	0.35
92	1.54	0.35	0.35
93	1.54	0.35	0.35
94	1.54	0.35	0.35
95	1.54	0.35	0.35
96	1.54	0.35	0.35
97	1.54	0.35	0.35
98	1.54	0.35	0.35
99	1.54	0.35	0.35
100	1.54	0.35	0.35



Step	1000 Amount
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.00
21	0.00
22	0.00
23	0.00
24	0.00
25	0.00
26	0.00
27	0.00
28	0.00
29	0.00
30	0.00
31	0.00
32	0.00
33	0.00
34	0.00
35	0.00
36	0.00
37	0.00
38	0.00
39	0.00
40	0.00
41	0.00
42	0.00
43	0.00
44	0.00
45	0.00
46	0.00
47	0.00
48	0.00
49	0.00
50	0.00
51	0.00
52	0.00
53	0.00
54	0.00
55	0.00
56	0.00
57	0.00
58	0.00
59	0.00
60	0.00
61	0.00
62	0.00
63	0.00
64	0.00
65	0.00
66	0.00
67	0.00
68	0.00
69	0.00
70	0.00
71	0.00
72	0.00
73	0.00
74	0.00
75	0.00
76	0.00
77	0.00
78	0.00
79	0.00
80	0.00
81	0.00
82	0.00
83	0.00
84	0.00
85	0.00
86	0.00
87	0.00
88	0.00
89	0.00
90	0.00
91	0.00
92	0.00
93	0.00
94	0.00
95	0.00
96	0.00
97	0.00
98	0.00
99	0.00
100	0.00

Depth: **MT**
Mgmt: **MT**

Depth	MT	Mgmt
1		
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100		

Cruise No: 2009804

Station: 2

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.53	0.80	70.89	2.86	2.44	47.51	90.52
32	1.69	1.06	61.70	2.81	1.61	37.33	59.57
58	1.80	1.25	53.83	2.72	1.17	30.60	44.08
76	1.66	1.10	54.74	2.44	1.21	33.82	51.11
103	1.69	1.16	51.70	2.40	1.07	31.41	45.79
137	1.62	1.07	53.54	2.32	1.15	33.78	51.01
143	1.60	1.05	53.44	2.27	1.15	34.22	52.02
200	1.63	1.08	53.89	2.34	1.17	33.91	51.30
267	1.54	1.02	51.11	2.09	1.05	33.88	51.25

Cruise No: 2009804
 Station: 2
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Depth Down Core (cm)	Peak		Sensitivity
	Undrained Shear Shear (kPa)	Remoulded Undrained Shear Shear (kPa)	
2	4.57		
10	5.03	1.49	3.38
20	6.65	0.66	10.00
30	4.34	3.66	1.19
40	5.32	3.77	1.41
50	7.54	1.26	6.00
60	10.52	2.66	3.96
75	7.65	5.25	1.46
85	7.31	2.55	2.87
80	6.85	5.37	1.28
90	7.31	3.66	2.00
95	7.08	4.11	1.72
100	11.54	7.20	2.06
105	10.74	5.21	1.60
110	7.09	4.76	1.49
115	7.08	4.80	1.48
125	5.21	2.77	1.88
120	5.83	3.08	1.89
130	4.76	1.66	2.87
135	5.03	2.97	1.69
145	4.91	1.83	2.69
155	4.98	1.99	2.50
165	5.14	1.83	2.81
175	4.98	0.89	5.63
185	7.31	1.83	4.00
195	5.43	2.44	2.23
205	5.48	1.83	3.00
215	5.10	2.66	1.92
225	5.60		
235	5.43		
245	5.71		
255	5.37	1.49	3.62
265	4.54	2.88	1.58

Cruise No: 2003801
 Station: 2
 Sample Type: Piston Core
 Data Type: Shipboard Torvane

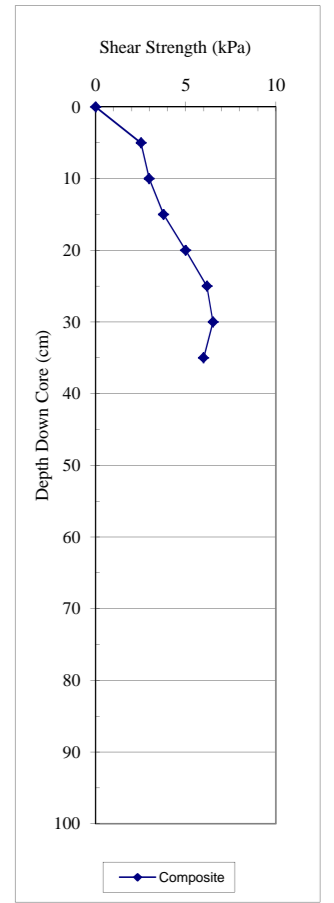
Depth Down Core (cm)	Undrained	
	Shear Shear (kPa)	Shear Shear (kPa)
NA	NA	NA
NA	NA	NA

Cruise No: 2003801
 Station: 2
 Sample Type: Piston Core
 Data Type: Shipboard Field HandVane

Depth Down Core (cm)	Peak	
	Undrained Shear Shear (kPa)	Undrained Shear Shear (kPa)
NA	NA	NA
NA	NA	NA

Composite

Depth Down Core (cm)	Peak	
	Undrained Shear Shear (kPa)	Remoulded Undrained Shear Shear (kPa)
0.0	0.00	
5	2.51	1.83
10	2.97	2.28
15	3.77	2.77
20	4.98	2.55
25	6.17	4.46
30	6.51	5.25464
35.0	5.98	3.66
average	4.11	



Cruise No: 2003801

Station: 3

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.76	2.65	42.96
10	0.66	2.51	42.9
15	0.7	2.42	43.79
20	0.6	2.2	44.77
25	0.47	1.71	45.46
30	0.53	1.94	45.01
35	0.68	2.45	43.18
40	0.29	1.4	44.97
45	0.52	2.06	42.25
50	0.54	2.02	43.49
55	0.35	2.02	43.8
60	0.16	1.01	46.71
65	0.25	1.08	44.57
70	0.59	1.98	43.32
75	0.3	1.27	45.63
80	0.11	1.22	41.48
85	0.5	1.92	43.22
90	0.5	2	44.42
95	0.52	1.97	43.88
100	0.61	2.1	43.21
105	0.5	2.08	44.61
110	0.65	2.13	45.35
115	0.43	1.58	45.64
120	0.64	2.02	43.2
125	0.56	1.7	44.65
130	0.48	1.42	41.08
135	0.28	0.45	41.96
140	0.47	1.35	44.66
145	0.44	1.66	47.01
150	0.54	1.9	43.07
155	0.55	1.79	42.8
160	0.65	2.21	41.67
165	0.71	2.27	41.57
170	0.63	2.13	41.31
175	0.64	2.26	41.94
180	0.6	2.03	42.7
185	0.92	2.8	41.54
190	0.68	2.35	42.04
195	0.78	2.45	42.57
200	0.87	2.57	42.29
205	0.67	2.14	42.5
210	0.6	1.84	40.34
215	0.75	2.34	42.53
220	0.72	2.34	41.97
225	0.7	2.16	41.9
230	0.6	1.88	41.63
235	0.72	2.15	41.38
240	0.82	2.6	41.87
245	0.79	2.5	40.86
250	0.82	2.52	41.66
255	0.7	2.34	39.82
260	0.68	2.26	41.22
265	0.47	1.53	44.48
270	0.73	2.28	47.32

Cruise No: 2009804

Station: 2

Sample Type: ***Piston Core***

Data Type: *Laboratory MST Velocity*

Depth (cm)	MST Bulk Velocity (m/sec)
3	1499.361
4	1494.309
5	1491.41
6	1485.994
7	1480.325
8	1492.157
9	1513.201
10	1507.061
11	1500.327
12	1496.248
13	1500.491
14	1499.836
15	1501.639
16	1505.419
17	1503.606
18	1499.346
19	1504.918
20	1510.855
21	1513.674
22	1506.885
23	1505.574
24	1508.374
25	1509.508
26	1514.943
27	1529.022
28	1517.822
29	1508.553
30	1507.413
31	1509.421
32	1496.838
33	1497.162
34	1501.678
35	1508.263
36	1509.275
37	1503.691
38	1506.061
39	1505.902
40	1508.968
41	1511.186
42	1510.321
43	1515.397
44	1517.923
45	1512.727
46	1520.992
47	1517.57
48	1517.298
49	1526.49
50	1527.032
51	1527.454
52	1544.202
53	1558.376
54	1555.219
55	1565.763
56	1567.007
57	1571.282
58	1583.074
59	1584.429

Cruise No: 2009804

Station: 3

Sample Type: *Piston Core*

Data Type: *Laboratory Discrete*

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1503.64	1480.03	7.28
20	1500.71	1504.72	7.44
30	1497.78	1480.03	7.75
40	1500.71	1500.55	7.91
50	1497.78	1492.27	8.17
60	1486.2	1480.03	8.34

Cruise No: 2009804

Station: 11

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.29	0.053	0.05
3	1.36	0.031	0.08
4	1.35	0.031	0.11
5	1.29	0.029	0.14
6	1.34	0.029	0.17
7	1.30	0.029	0.20
8	1.33	0.031	0.23
9	1.38	0.032	0.26
10	1.31	0.030	0.29
11	1.33	0.035	0.33
12	1.57	0.046	0.37
13	1.52	0.052	0.43
14	1.59	0.051	0.48
15	1.48	0.049	0.53
16	1.53	0.049	0.58
17	1.54	0.051	0.63
18	1.58	0.053	0.68
19	1.57	0.053	0.73
20	1.52	0.050	0.78
21	1.50	0.049	0.83
22	1.55	0.049	0.88
23	1.50	0.048	0.93
24	1.49	0.047	0.97
25	1.52	0.048	1.02
26	1.54	0.050	1.07
27	1.55	0.052	1.12
28	1.56	0.051	1.18
29	1.49	0.049	1.22
30	1.58	0.053	1.28
31	1.61	0.055	1.33
32	1.55	0.053	1.39
33	1.56	0.054	1.44
34	1.62	0.058	1.50
35	1.65	0.057	1.56
36	1.52	0.052	1.61
37	1.52	0.048	1.66
38	1.50	0.024	1.68

Cruise No: 2009804

Station: 11

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	1.33
5	0.88
6	0.68
7	0.60
8	0.55
9	0.54
10	0.54
11	0.55
12	0.55
13	0.56
14	0.57
15	0.57
16	0.57
17	0.58
18	0.58
19	0.57
20	0.54
21	0.54
22	0.53
23	0.53
24	0.54
25	0.56
26	0.57
27	0.57
28	0.57
29	0.57
30	0.57
31	0.57
32	0.58
33	0.59
34	0.61
35	0.62
36	0.65
37	0.70
38	0.80
39	1.02

Cruise No: 2009804

Station: 11

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
4	10
5	11
6	10
7	12
8	17
9	20
10	24
11	23
12	23
13	22
14	30
15	22
16	23
17	22
18	23
19	21
20	23
21	24
22	40
23	25
24	24
25	19
26	15
27	22
28	16
29	20
30	22
31	19
32	20
33	19
34	18
35	15
36	14
37	33
38	20
39	19
40	16

Cruise No: 2009804

Station: 11

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.36	0.57	77.70	2.70	3.48	58.46	140.71
20	1.52	0.81	69.78	2.77	2.31	46.86	88.18
37	1.52	0.81	69.67	2.75	2.30	46.89	88.29
39	1.35	0.65	68.97	2.09	2.22	52.14	108.93

Cruise No: 2009804

Station: 11

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	3.54	1.71	2.07
15	5.87	1.99	2.94
25	5.25	1.37	3.83
35	7.20	3.43	2.10

Cruise No: 2003801

Station: 11

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.69	6.08	41.98
10	1.32	4.96	42.35
15	0.63	3.07	45.58
20	1.11	4.52	41.31
25	1.07	4.49	41.59
30	0.9	3.31	44.38
35	0.65	2.99	45.44

Cruise No: 2009804

Station: 11

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1484.8
3	1477.8
4	1476.8
5	1475.9
6	1473.2
7	1469.3
8	1471.3
9	1472.4
10	1472.4
11	1474.9
12	1477.4
13	1473.4
14	1474.1
15	1474.6
16	1475.0
17	1476.4
18	1477.9
19	1475.5
20	1475.2
21	1476.2
22	1477.4
23	1478.4
24	1474.7
25	1468.1
26	1474.4
27	1485.3
28	1497.1
29	1484.5
30	1483.0
31	1488.0
32	1483.6
33	1480.0
34	1480.4
35	1478.4
36	1488.8
37	1486.3
38	1485.6
39	1500.8

Cruise No: 2009804

Station: 11

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1464.41	1466.47	7.68
15	1464.41	1474.46	7.84
25	1470.01	1470.45	8.27
35	1470.01	1486.61	8.47

Page	Case No.
100	2020-00000
101	2020-00000
102	2020-00000
103	2020-00000
104	2020-00000
105	2020-00000
106	2020-00000
107	2020-00000
108	2020-00000
109	2020-00000
110	2020-00000
111	2020-00000
112	2020-00000
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192	2020-00000
193	2020-00000
194	2020-00000
195	2020-00000
196	2020-00000
197	2020-00000
198	2020-00000
199	2020-00000
200	2020-00000

Case No.	Date Filed	Page
2020-00000	08/11/2020	1

Cruise No: 2009804

Station: 13

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
0	1.44	0.70	72.48	2.53	2.63	51.61	106.66
10	1.51	0.79	70.48	2.76	2.39	47.87	91.83
50	1.52	0.87	63.78	2.45	1.76	42.85	74.98
100	1.56	0.87	67.11	2.71	2.04	44.17	79.11
139	1.54	0.84	68.09	2.71	2.13	45.32	82.88
195	1.59	0.95	62.83	2.59	1.69	40.48	68.00
275	1.81	1.28	51.90	2.67	1.08	29.35	41.54
285	1.85	1.34	49.59	2.67	0.98	27.42	37.78
297	1.84	1.35	48.54	2.62	0.94	26.94	36.87
131	1.48	0.77	69.64	2.54	2.29	48.05	92.50
132	1.57	0.88	67.56	2.71	2.08	44.04	78.68

Cruise No: 2009804
 Station: L3
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Cruise No: 2009804
 Station: L3
 Sample Type: Piston Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>		<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
5	7.43	2.74	2.71
15	4.54	1.11	4.10
25	6.28		
35	4.98		
45	5.25	1.60	3.29
55	4.54	1.66	2.73
65	5.71		
75	5.65		
85	5.83	1.03	5.67
95	6.20	4.87	1.27
140	6.51	1.83	3.56
150	7.42	3.10	2.39
160	7.20		
170	5.65		
180	9.37	1.94	4.82
190	6.98	3.43	2.03
200	8.68		
210	7.64		
220	7.88	1.94	4.06
230	7.09	1.99	3.56
240	7.65		
250	7.42		
260	10.40	3.66	2.84
270	12.07	5.10	2.37
288	7.88	3.20	2.46
298	16.39	5.54	2.96

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
	131
132.0	5.88

Cruise No: 2003801

Station: L3

Sample Type: Piston Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.16	4.69	42
10	0.96	3.83	43.96
15	0.91	3.75	43.17
20	1.09	4.57	41.3
25	0.96	4.61	41.01
30	0.88	3.7	44.6
35	0.96	4.34	41.66
40	1.03	4.18	41.54
45	0.93	4.21	41.76
50	0.82	3.28	44.75
55	0.98	4.35	41.29
60	0.95	4.17	41.6
65	0.86	3.77	42.85
70	0.71	3.57	42.9
75	1.03	4.48	40.53
80	1.04	4.64	40.89
85	1.05	4.43	41.97
90	1.02	4.3	41.39
95	0.66	3.07	45.37
100	0.68	3.15	45.33
105	0.63	3.06	44.94
135	0.63	3.32	40.31
140	0.81	3.87	40.76
145	0.63	2.77	42.83
150	0.94	3.87	41.41
155	0.84	3.88	40.81
160	0.61	3.04	40.03
165	0.52	2.84	42.36
170	0.92	3.99	40.74
175	0.75	3.66	39.58
180	0.94	4.23	40.77
185	0.86	3.87	41
190	1.02	4.04	41.62
195	0.88	4.07	41.01
200	0.83	3.92	40.29
205	1.05	4.3	41.66
210	0.84	3.72	42.05
215	0.8	3.63	39.71
220	0.95	3.93	41.49
225	0.76	3.4	40.9
230	0.09	1.66	38.42
235	0.58	3.25	40.32
240	0.6	3.11	42.49
245	0.82	3.79	41.58
250	0.78	3.3	43.36
255	0.9	3.12	42.09
260	0.6	2.76	42.69
265	1.01	3.52	42.62
270	0.7	3.23	40.87
275	0.77	3.78	41.15
280	0.83	3.7	41.45
285	1.71	5.26	42.15
290	0.86	2.96	42.63
295	0.87	3.3	41.98
300	0.83	3.42	40.82

Cruise No: 202004
 Station: 22
 Sample Type: Plankton
 Data Type: Salinometer, SST, TSS, etc.

Depth (cm)	MSY_Bulk Velocity (m/sec)
1	1473.4
2	1465.4
3	1472.4
4	1455.4
5	1460.2
6	1441.1
7	1448.1
8	1450.2
9	1449.1
10	1450.6
11	1446.5
12	1442.7
13	1442.1
14	1442.2
15	1441.6
16	1440.7
17	1440.5
18	1438.6
19	1437.3
20	1438.1
21	1437.8
22	1441.6
23	1442.0
24	1440.6
25	1432.7
26	1430.0
27	1439.0
28	1438.3
29	1438.3
30	1437.3
31	1438.3
32	1437.3
33	1438.3
34	1435.7
35	1435.2
36	1436.1
37	1437.3
38	1437.3
39	1439.0
40	1438.2
41	1446.0
42	1443.6
43	1439.0
44	1438.0
45	1438.3
46	1443.7
47	1444.3
48	1447.9
49	1464.1
50	1468.7
51	1469.3
52	1442.2
53	1444.6
54	1442.9
55	1440.9
56	1440.3
57	1438.9
58	1432.8
59	1434.4
60	1430.0
61	1430.0
62	1438.8
63	1437.2
64	1436.5
65	1435.5
66	1434.6
67	1433.4
68	1431.2
69	1430.5
70	1429.6
71	1428.9
72	1430.6
73	1426.0
74	1426.0
75	1422.8
76	1440.5
77	1441.5
78	1438.1
79	1438.1
80	1439.2
81	1440.5
82	1435.9
83	1437.2
84	1436.5
85	1437.2
86	1437.7
87	1439.6
88	1437.8
89	1442.8
90	1443.4
91	1443.6
92	1443.7
93	1443.9
94	1446.2
95	1447.4
96	1446.7
97	1443.3
98	1446.5
99	1443.6
100	1442.4
101	1443.3
102	1415.4
103	1452.2
104	1452.4
105	1439.5
106	1437.0
107	1461.8
108	1451.4
109	1448.6
110	1451.7
111	1457.7
112	1452.1
113	1441.6
114	1445.9
115	1438.5
116	1444.9
117	1447.0
118	1447.8
119	1446.9
120	1445.2
121	1449.9
122	1451.9
123	1437.5
124	1460.4
125	1460.9
126	1456.4
127	1453.6
128	1452.4
129	1457.7
130	1458.0
131	1458.3
132	1451.9
133	1458.4
134	1451.6
135	1440.9
136	1444.3
137	1439.7
138	1441.5
139	1437.9
140	1445.4
141	1439.5
142	1435.8
143	1438.5
144	1442.8
145	1441.1
146	1443.5
147	1441.7
148	1446.7
149	1447.4
150	1451.7
151	1443.9
152	1441.8
153	1441.3
154	1439.5
155	1440.9
156	1441.5
157	1437.8
158	1441.8
159	1438.8
160	1440.9
161	1435.8
162	1432.9
163	1437.4
164	1433.7
165	1433.4
166	1432.0
167	1433.0
168	1432.6
169	1431.5
170	1422.8
171	1420.6
172	1427.7
173	1433.4
174	1434.0
175	1429.8
176	1436.8
177	1428.8
178	1439.4
179	1442.6
180	1446.9
181	1446.0
182	1439.3
183	1508.3
184	1482.3
185	1481.2
186	1451.6
187	1442.7
188	1475.9
189	1458.1
190	1456.4
191	1433.4
192	1431.3

Cruise No: 2009804

Station: L3

Sample Type: Piston Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Temperature (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
10	1489.94	1490.7	18.81
20	1487.06	1490.7	18.75
30	1481.33	1498.96	18.87
40	1492.83	1490.7	18.96
50	1489.94	1490.7	18.98
60	1492.83	1494.82	18.96
70	1489.94	1494.82	18.97
80	1489.94	1490.7	19
90	1489.94	1494.82	19.09
100	1489.94	1503.12	19.11
140	1444.74	1447.53	2.76
150	1455.7	1455.35	3.20
160	1519.04	1451.43	3.56
170	1461.24	1455.35	4.07
180	1461.24	1455.35	4.37
190	1486.69	1467.24	4.96
200	1464.02	1455.35	5.24
210	1464.02	1475.27	5.6
220	1489.58	1525.39	5.8
230	1575.12	1538.46	6.15
240	1552.83	1551.75	6.55
250	1537.28	1534.08	6.81
260	1591.44	1579.04	6.98
270	1594.74	1556.23	7.29
288	1594.74	1491.61	6.84
295	1598.06	1656.72	7.2

Cruise No: 2009804

Station: 13

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
1	1.444	0.041	0.04
2	1.545	0.049	0.09
3	1.541	0.048	0.14
4	1.447	0.044	0.18
5	1.462	0.045	0.23
6	1.562	0.050	0.28
7	1.554	0.050	0.33
8	1.460	0.045	0.37
9	1.472	0.040	0.41
10	1.323	0.031	0.44
11	1.246	0.023	0.47
12	1.212	0.023	0.49
13	1.345	0.031	0.52
14	1.468	0.041	0.56
15	1.466	0.041	0.60
16	1.358	0.038	0.64
17	1.453	0.040	0.68
18	1.444	0.042	0.72
19	1.456	0.043	0.76
20	1.483	0.044	0.81
21	1.477	0.043	0.85
22	1.430	0.041	0.89
23	1.445	0.041	0.93
24	1.438	0.040	0.97
25	1.421	0.041	1.01
26	1.477	0.042	1.06
27	1.449	0.042	1.10
28	1.443	0.042	1.14
29	1.481	0.043	1.18
30	1.450	0.043	1.23
31	1.476	0.044	1.27
32	1.499	0.046	1.32
33	1.483	0.046	1.36
34	1.493	0.046	1.41
35	1.485	0.046	1.45
36	1.498	0.047	1.50
37	1.529	0.050	1.55
38	1.578	0.054	1.60
39	1.594	0.048	1.65
40	1.307	0.021	1.67

Cruise No: 2009804

Station: L3

Sample Type: **Trigger Weight Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
3	1.6049
4	1.0271
5	0.7823
6	0.6796
7	0.6355
8	0.6114
9	0.6086
10	0.6143
11	0.6262
12	0.6355
13	0.6387
14	0.6355
15	0.6324
16	0.6232
17	0.6173
18	0.6143
19	0.6057
20	0.6001
21	0.5739
22	0.5689
23	0.564
24	0.5689
25	0.5815
26	0.6057
27	0.6202
28	0.6293
29	0.6324
30	0.6419
31	0.6324
32	0.6355
33	0.6419
34	0.6451
35	0.6419
36	0.6484
37	0.6653
38	0.6908
39	0.7444
40	0.8731
41	1.1781

Cruise No: 2009804

Station: L3

Sample Type: **Trigger Weight Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	11
2	11
3	11
4	10
5	8
6	11
7	10
8	11
9	10
10	8
11	5
15	8
16	10
17	8
18	10
19	12
20	10
21	10
22	9
23	11
24	10
25	10
26	10
27	9
28	9
29	9
30	10
31	10
32	11
33	10
34	10
35	11
36	10
37	12

Cruise No: 2009804

Station: 13

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.44	0.68	74.40	2.77	2.91	52.97	112.64
35	1.49	0.75	72.17	2.79	2.59	49.76	99.05

Cruise No: 2009804

Station: L3

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	3.54	1.37	2.58
15	4.10	1.66	2.47
25	3.54	2.63	1.35
35	4.32	1.11	3.90

Cruise No: 2003801

Station: L3

Sample Type: Trigger Weight Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
2	1.33	5.06	43.43
5	1.39	5.21	41.66
10	0.9	3.72	45.02
15	0.5	2.54	45.45
20	1.23	4.98	40.98
25	1.03	4	42.51
30	0.65	3.81	42.22
35	0.68	3.62	42.89
40	0.53	2.9	43.66

Cruise No: 2009804

Station: L3

Sample Type: **Trigger Weight Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
1	1507.79
5	1491.91
6	1493.85
7	1489.82
8	1491.03
9	1488.45
10	1486.15
11	1488.07
12	1502.53
13	1473.07
14	1476.69
15	1485.71
16	1486.84
17	1481.92
18	1487.64
19	1489.50
20	1489.40
21	1486.18
22	1485.90
23	1483.33
24	1480.27
25	1483.50
26	1485.28
27	1484.75
28	1486.93
29	1490.17
30	1485.24
31	1486.81
32	1485.24
33	1486.76
34	1485.48
35	1481.24
36	1481.48
38	1495.42
39	1493.88

Cruise No: 2009804

Station: L3

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1455.7	1451.43	9.01
15	1455.7	1447.53	9.21
25	1452.94	1447.53	9.56
35	1455.7	1447.53	9.78

Cruise No: 2009804

Station: 14

Sample Type: Push Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.4032	0.037	0.04
3	1.5596	0.048	0.09
4	1.5445	0.052	0.14
5	1.5629	0.055	0.19
6	1.6643	0.058	0.25
7	1.5523	0.055	0.30
8	1.5563	0.053	0.36
9	1.6066	0.056	0.41
10	1.6071	0.057	0.47
11	1.59	0.056	0.53
12	1.5735	0.055	0.58
13	1.6106	0.055	0.64
14	1.5516	0.052	0.69
15	1.5186	0.049	0.74
16	1.4949	0.049	0.79
17	1.577	0.054	0.84
18	1.6298	0.059	0.90
19	1.6471	0.060	0.96
20	1.6203	0.059	1.02
21	1.595	0.056	1.07
22	1.5754	0.053	1.13
23	1.5306	0.052	1.18
24	1.593	0.055	1.23
25	1.604	0.057	1.29
26	1.6293	0.058	1.35
27	1.6116	0.058	1.41
28	1.6246	0.058	1.47
29	1.6095	0.057	1.52
30	1.5884	0.055	1.58
31	1.5711	0.054	1.63
32	1.5823	0.054	1.69
33	1.5748	0.054	1.74
34	1.5775	0.054	1.80
35	1.5566	0.054	1.85
36	1.5939	0.055	1.90
37	1.5777	0.054	1.96
38	1.5371	0.053	2.01
39	1.5989	0.052	2.06
40	1.4857	0.025	2.09

Cruise No: 2009804

Station: 14

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
1	5.752
2	3.6775
3	2.0483
4	1.1983
5	0.801
6	0.6397
7	0.5657
8	0.5295
9	0.5143
10	0.5094
11	0.5118
12	0.5118
13	0.5168
14	0.5193
15	0.5243
16	0.5295
17	0.5321
18	0.5375
19	0.5402
20	0.5429
21	0.5321
22	0.5321
23	0.5375
24	0.5429
25	0.5484
26	0.5512
27	0.5779
28	0.5842
29	0.5906
30	0.5939
31	0.5842
32	0.5842
33	0.5874
34	0.6005
35	0.6005
36	0.6038
37	0.6177
38	0.6513
39	0.7161
40	0.8254
41	1.0003

Cruise No: 2009804

Station: 14

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
4	10
5	11
6	10
7	12
8	17
9	20
10	24
11	23
12	23
13	22
14	30
15	22
16	23
17	22
18	23
19	21
20	23
21	24
22	40
23	25
24	24
25	19
26	15
27	22
28	16
29	20
30	22
31	19
32	20
33	19
34	18
35	15
36	14
37	33
38	20
39	19
40	16

Cruise No: 2009804

Station: 14

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.36	0.57	77.70	2.70	3.48	58.46	140.71
20	1.52	0.81	69.78	2.77	2.31	46.86	88.18
37	1.52	0.81	69.67	2.75	2.30	46.89	88.29
41	1.47	0.74	72.05	2.63	2.58	50.06	100.24

Cruise No: 2009804

Station: 14

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	3.54	1.71	2.07
15	5.87	1.99	2.94
25	5.25	1.37	3.83
35	7.20	3.43	2.10

Cruise No: 2003801

Station: 14

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.44	5.47	41.09
10	1.57	6.44	40.89
15	1.4	5.65	41.08
20	1.15	4.92	41.49
25	1.1	4.77	41.28
30	0.87	4.13	43.3
35	0.79	3.7	43.06
40	0.97	4.63	40.03

Cruise No: 2009804

Station: 14

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1469.45
4	1467.856
5	1461.666
6	1457.228
7	1461.005
8	1462.492
9	1466.085
10	1461.168
11	1463.517
12	1460.624
13	1461.786
14	1462.109
15	1460.174
16	1459.207
17	1461.142
18	1465.445
19	1467.69
20	1467.049
21	1466.519
22	1468.948
23	1463.576
24	1465.572
25	1465.992
26	1468.631
27	1471.483
28	1475.285
29	1478.896
30	1479.975
31	1473.584
32	1478.206
33	1480.921
34	1476.311
35	1489.162
36	1505.988
37	1491.963
38	1493.794
39	1488.064

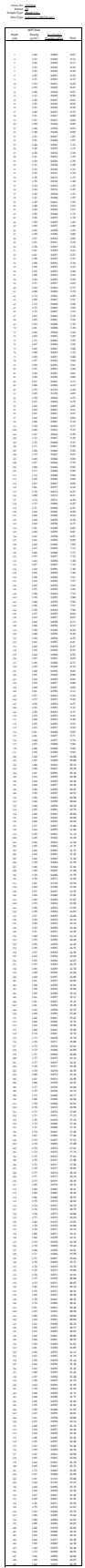
Cruise No: 2009804

Station: 14

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
7.39	7.39	7.39	7.39
7.62	7.62	7.62	7.62
8.18	8.18	8.18	8.18
8.44	8.44	8.44	8.44





The image shows a vertical table with a header row and a large empty body. The header row contains a single cell with a small, illegible label. The body of the table is empty, consisting of a single column of cells.

Header

Year	Value
2010	100
2011	100
2012	100
2013	100
2014	100
2015	100
2016	100
2017	100
2018	100
2019	100
2020	100
2021	100
2022	100
2023	100
2024	100
2025	100
2026	100
2027	100
2028	100
2029	100
2030	100
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2090	100
2091	100
2092	100
2093	100
2094	100
2095	100
2096	100
2097	100
2098	100
2099	100

Cruise No: 2009804

Station: 19

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.54	0.84	68.80	2.77	2.21	45.70	84.15
45	1.59	0.93	64.93	2.71	1.85	41.72	71.58
77	1.59	0.93	64.28	2.67	1.80	41.32	70.42
87	1.60	0.94	63.98	2.61	1.78	41.05	69.62
89	1.65	1.00	62.70	2.74	1.68	39.02	64.00
150	1.60	0.93	65.60	2.76	1.91	42.01	72.43
198	1.64	0.99	63.02	2.73	1.70	39.45	65.14
237	1.67	1.02	62.88	2.75	1.69	38.64	62.97
238	1.66	1.02	62.94	2.74	1.70	38.83	63.47
243	1.65	1.00	62.89	2.75	1.69	39.10	64.20
308	1.72	1.13	58.08	2.72	1.39	34.48	52.64
377	1.67	1.04	60.82	2.70	1.55	37.40	59.75
392	1.67	1.05	60.51	2.70	1.53	37.10	58.99
408	1.69	1.08	59.46	2.71	1.47	35.98	56.20

Cruise No: 2009804

Station: 19

Sample Type: Piston Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Station: 2009804

Sample Type: 19

Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	7.88	6.40	1.23
20	4.32	2.33	1.86
30	4.23	2.97	1.42
40	3.43	2.77	1.24
50	5.60	1.94	2.88
60	3.77	1.88	2.00
70	5.83	2.17	2.68
80	4.54	1.66	2.73
95	6.97	3.31	2.10
105	5.76	4.43	1.30
115	8.57	2.74	3.13
125	5.65	3.54	1.59
135	6.40	4.68	1.37
145	5.54	3.21	1.72
155	7.65		
165	5.98		
175	6.05	5.71	1.06
185	7.53	1.33	5.67
195	8.00	6.28	1.27
205	8.20	3.88	2.11
240	12.22	3.20	3.82
250	12.07	3.54	3.41
260	13.59		
270	11.08		
280	11.77	0.91	12.88
290	9.75	3.77	2.59
310	19.94		
300	10.74		
320	9.82	2.28	4.30
330	10.63	1.22	8.73
340	11.99		
350	10.07955		
360	11.99429	2.17	5.53
370	8.63961	1.33	6.50
390	10.73775	4.68	2.29
400	11.29796	2.44	4.64
410	8.79581	2.74	3.21

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
87	4.12
237.0	9.22
238.0	10.30

Cruise No: 2003801

Station: 19

Sample Type: Piston Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.84	3.36	45.45
10	0.78	3.71	43.29
15	0.86	3.87	42.90
20	1.10	5.24	40.97
25	0.60	3.39	42.44
30	0.58	3.36	44.47
35	0.88	4.09	42.88
40	0.87	4.49	40.77
45	0.72	3.12	44.66
50	0.98	4.39	39.83
55	1.09	4.62	40.43
60	0.84	3.41	44.36
65	0.87	3.64	43.78
70	0.91	3.64	44.49
75	1.02	4.04	42.17
80	0.89	3.30	42.96
85	0.60	2.62	44.45
90	0.81	3.64	41.18
95	0.89	3.77	42.69
100	0.74	3.33	43.96
105	0.99	4.37	39.48
110	0.85	3.62	42.44
115	0.73	3.12	44.97
120	0.83	3.44	44.54
125	0.78	3.04	46.21
130	0.87	3.42	45.43
135	1.06	4.24	41.46
140	1.09	4.36	42.31
145	0.94	3.47	45.62
150	1.13	4.13	42.92
155	0.77	3.08	44.32
160	0.82	3.72	43.50
165	0.94	4.14	41.79
170	0.86	3.43	44.09
175	1.09	4.20	43.83
180	0.89	3.75	43.34
185	0.91	3.70	42.97
190	0.96	3.75	43.05
195	0.73	2.98	45.47
200	1.12	4.00	42.31
205	0.93	3.53	43.07
210	0.88	3.38	43.80
240	0.67	3.18	43.24
245	1.01	3.97	41.49
250	0.86	3.58	41.81
255	0.74	2.94	44.94
260	1.02	3.84	40.71
265	0.89	3.62	42.18
270	1.20	4.21	41.24
275	0.85	3.32	42.81
280	0.85	3.24	42.86
285	0.89	2.94	46.32
290	1.04	3.63	43.16
295	1.08	3.89	42.82
300	1.00	4.01	42.23
305	0.90	3.58	42.41
310	0.70	2.75	42.25
315	0.07	1.76	38.66
320	0.78	3.50	40.74
325	0.96	3.74	42.58
330	0.88	3.46	41.68
335	0.56	2.28	43.95
340	0.86	3.47	42.48
345	0.93	3.56	42.19
350	0.93	3.60	43.57
355	0.99	3.55	43.27
360	0.78	3.36	43.36
365	0.86	3.41	44.41
370	0.90	3.60	43.26
375	0.88	3.63	42.16
380	0.94	3.32	43.28
385	0.32	1.96	44.36
390	0.28	1.98	45.42
395	0.32	1.68	48.74
400	0.35	2.10	44.63
405	0.76	2.45	51.03
410	0.36	2.09	45.23

Sl. No.	Particulars	Debit	Credit
1	Bank		
2	By Balance b/d		
3	By Cash		
4	By _____		
5	By _____		
6	By _____		
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94	By _____		
95	By _____		
96	By _____		
97	By _____		
98	By _____		
99	By _____		
100	By _____		

Cruise No: 2009804

Station: 19

Sample Type: **Piston Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Temperature (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
10	1478.11	1463.25	7.5
20	1458.46	1455.35	7.78
30	1458.46	1455.35	7.99
40	1461.24	1463.25	8.2
50	1475.27	1483.39	8.4
60	1478.11	1479.32	8.65
70	1472.44	1479.32	8.67
80	1475.27	1483.39	8.87
80	1495.38	1491.61	16.46
95	1495.38	1495.75	16.49
105	1498.3	1504.1	16.66
115	1525.07	1491.61	16.71
125	1501.22	1495.75	16.84
135	1501.22	1487.49	16.87
145	1492.47	1525.39	17.1
155	1495.38	1495.75	17.16
165	1492.47	1479.32	17.2
175	1495.38	1491.61	17.25
185	1492.47	1504.1	17.27
195	1498.3	1499.91	17.4
205	1492.47	1495.75	17.46
240	1498.3	1487.49	18.24
250	1492.47	1516.8	18.3
260	1504.17	1534.08	18.28
270	1501.22	1508.31	18.35
280	1504.17	1499.91	18.33
290	1501.22	1504.1	18.38
300	1501.22	1583.68	18.36
310	1540.37	1508.31	18.41
320	1519.04	1525.39	18.44
330	1519.04	1529.72	18.47
340	1516.04	1504.1	18.51
350	1498.3	1508.31	18.44
360	1498.3	1512.54	18.47
390	1415.1	1471.98	3.73
400	1466.37	1480.03	4.25

Cruise No: 2009804

Station: 19

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.74	0.071	0.07
3	1.74	0.068	0.14
4	1.65	0.062	0.20
5	1.59	0.058	0.26
6	1.62	0.056	0.31
7	1.55	0.052	0.37
8	1.51	0.051	0.42
9	1.59	0.054	0.47
10	1.62	0.060	0.53
11	1.70	0.062	0.59
12	1.63	0.062	0.66
13	1.68	0.063	0.72
14	1.66	0.063	0.78
15	1.67	0.062	0.84
16	1.63	0.059	0.90
17	1.57	0.057	0.96
18	1.63	0.057	1.02
19	1.58	0.057	1.07
20	1.61	0.057	1.13
21	1.62	0.057	1.19
22	1.57	0.052	1.24
23	1.47	0.045	1.29
24	1.44	0.042	1.33
25	1.48	0.041	1.37
26	1.36	0.036	1.40
27	1.36	0.035	1.44
28	1.43	0.040	1.48
29	1.50	0.043	1.52
30	1.43	0.041	1.56
31	1.40	0.038	1.60
32	1.42	0.038	1.64
33	1.41	0.038	1.68
34	1.39	0.034	1.71
35	1.31	0.032	1.74
36	1.39	0.035	1.78
37	1.44	0.039	1.82
38	1.39	0.037	1.85
39	1.39	0.037	1.89
40	1.45	0.040	1.93
41	1.44	0.040	1.97
42	1.41	0.039	2.01
43	1.44	0.040	2.05
44	1.43	0.040	2.09
45	1.42	0.039	2.13
46	1.41	0.038	2.17
47	1.43	0.038	2.21
48	1.38	0.036	2.24
49	1.37	0.034	2.28
50	1.39	0.036	2.31
51	1.42	0.037	2.35
52	1.39	0.037	2.39
53	1.40	0.037	2.42
54	1.42	0.036	2.46
55	1.35	0.035	2.50
56	1.42	0.038	2.53
57	1.46	0.040	2.57
58	1.39	0.037	2.61
59	1.36	0.034	2.64
60	1.35	0.034	2.68
61	1.43	0.038	2.72
62	1.46	0.043	2.76
63	1.49	0.045	2.80
64	1.50	0.048	2.85
65	1.58	0.051	2.90
66	1.53	0.051	2.95
67	1.55	0.051	3.01
68	1.55	0.051	3.06
69	1.51	0.048	3.10
70	1.46	0.044	3.15
71	1.44	0.043	3.19
72	1.51	0.048	3.24
73	1.60	0.053	3.29
74	1.53	0.052	3.34
75	1.57	0.052	3.40
76	1.54	0.049	3.44
77	1.45	0.046	3.49
78	1.54	0.048	3.54
79	1.53	0.051	3.59
80	1.56	0.052	3.64
81	1.57	0.053	3.69
82	1.56	0.053	3.75
83	1.59	0.054	3.80
84	1.55	0.055	3.86
85	1.64	0.058	3.91
86	1.63	0.030	3.94

Cruise No: 2009804

Station: 19

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
5	0.9822
6	0.7306
7	0.6213
8	0.5628
9	0.5348
10	0.5243
11	0.5269
12	0.5375
13	0.5484
14	0.5512
15	0.5512
16	0.5512
17	0.5484
18	0.5512
19	0.5541
20	0.5541
21	0.5541
22	0.5541
23	0.5484
24	0.5456
25	0.5402
26	0.5295
27	0.5243
28	0.5193
29	0.5168
30	0.5168
31	0.5118
32	0.5094
33	0.5046
34	0.5022
35	0.4999
36	0.4999
37	0.4976
38	0.4953
39	0.4908
40	0.4908
41	0.493
42	0.493
43	0.493
44	0.4908
45	0.4908
46	0.4908
47	0.4908
48	0.4908
49	0.493
50	0.4908
51	0.4908
52	0.4908
53	0.4908
54	0.493
55	0.4953
56	0.4976
57	0.4999
58	0.4999
59	0.507
60	0.5094
61	0.5118
62	0.5143
63	0.5218
64	0.5295
65	0.5375
66	0.5402
67	0.5348
68	0.5402
69	0.5456
70	0.5541
71	0.557
72	0.5599
73	0.5599
74	0.5687
75	0.6107
76	0.6177
77	0.6249
78	0.6285
79	0.6322
80	0.6397
81	0.6435
82	0.6553
83	0.6633
84	0.68
85	0.7067
86	0.7562
87	0.8447
88	1.0485

Cruise No: 2009804
Station: 19
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	12
3	13
4	13
5	14
6	11
7	11
8	11
9	12
10	13
11	9
12	14
13	13
14	14
15	14
16	15
17	13
18	14
19	15
20	14
21	13
22	12
23	11
24	11
25	7
26	6
27	3
28	2
29	3
30	5
31	4
32	5
33	4
34	8
35	6
36	3
37	8
38	10
39	11
40	11
41	11
42	12
43	10
45	9
46	10
47	11
48	11
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50	12
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57	11
58	12
59	12
60	12
61	12
62	12
63	13
64	14
65	11
66	10
67	12
68	12
69	8
70	3
71	2
72	2
73	10
74	13
75	13
76	12
77	11
78	13
79	14
80	13
81	14
82	12
83	14
84	14
85	14

Cruise No: 2009804

Station: 19

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
8	1.51	0.81	69.07	2.69	2.23	46.70	87.60
37	1.44	0.72	70.72	2.55	2.42	50.18	100.72
83	1.59	0.91	65.89	2.74	1.93	42.47	73.83

Cruise No: 2003801

Station: 19

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	4.68	2.17	2.16
15	5.14	2.17	2.37
25	3.99		
35	3.88		
45	2.99		
55	3.88	2.06	1.89
65	3.10		
75	2.97	1.60	1.86
85	4.21	2.33	1.81

Cruise No: 2003801

Station: 19

Sample Type: Trigger Weight Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.79	3.61	45.06
10	1.07	4.08	42.61
15	0.81	3.58	42.33
20	1.05	4.64	40.59
25	0.95	4.38	40.93
30	0.7	3.57	43.46
35	0.71	3.14	45.23
40	0.46	3.14	43.76
45	0.6	3.51	39.35
50	0.79	3.86	42.48
55	0.82	3.67	41.62
60	0.41	2.9	43.41
65	0.96	4	44.51
70	0.85	3.63	43.24
75	0.29	2.01	44.59
80	0.73	3.11	43.44
85	-0.17	0.6	41.77

Cruise No: 200904
Station: 19
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1457.98
3	1451.07
4	1448.79
5	1450.80
6	1438.87
7	1444.02
8	1440.37
9	1435.94
10	1435.57
11	1433.41
12	1440.61
13	1445.23
14	1451.71
15	1458.33
16	1457.80
17	1448.77
18	1448.30
19	1449.62
20	1446.45
21	1435.47
22	1434.42
23	1430.73
24	1431.90
25	1435.65
26	1436.13
27	1440.73
28	1435.45
29	1432.91
30	1427.04
31	1431.56
32	1432.57
33	1435.76
34	1441.00
35	1439.78
36	1438.83
37	1434.53
38	1429.91
39	1430.14
40	1428.10
41	1429.09
42	1432.19
43	1432.52
44	1428.62
45	1424.12
46	1427.73
47	1424.01
48	1422.99
49	1417.31
50	1418.05
51	1421.40
52	1421.43
53	1418.13
54	1417.81
55	1422.45
56	1421.10
57	1420.09
58	1422.08
59	1418.43
60	1420.35
61	1420.97
62	1424.58
63	1426.57
64	1426.33
65	1429.51
66	1428.67
67	1425.73
68	1425.19
69	1430.83
70	1433.81
71	1431.90
72	1425.31
73	1436.70
74	1439.99
75	1433.09
76	1434.27
77	1433.78
78	1436.92
79	1449.29
80	1456.86
81	1465.01
82	1462.21
83	1453.17
84	1459.88
85	1459.53
86	1461.24
87	1454.61

Cruise No: 2009804

Station: 19

Sample Type: Trigger Weight Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete		Temperature (C)
	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	
5	1464.69	1457.67	9.06
15	1459.13	1465.57	9.4
25	1453.61	1453.76	9.57
35	1453.61	1453.76	9.92
45	1459.13	1465.57	10.2
55	1453.61	1453.76	10.47
65	1467.48	1461.61	10.63
75	1470.29	1461.61	10.8

Cruise No: 2009804

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.420	0.058	0.06
4	1.511	0.043	0.10
5	1.424	0.041	0.14
6	1.423	0.040	0.18
7	1.450	0.041	0.22
8	1.434	0.039	0.26
9	1.357	0.036	0.30
10	1.418	0.036	0.33
11	1.355	0.036	0.37
12	1.416	0.041	0.41
13	1.586	0.052	0.46
14	1.610	0.056	0.52
15	1.588	0.056	0.57
16	1.575	0.055	0.63
17	1.606	0.055	0.68
18	1.560	0.057	0.74
19	1.682	0.060	0.80
20	1.635	0.061	0.86
21	1.616	0.057	0.92
22	1.549	0.054	0.97
23	1.586	0.054	1.03
24	1.593	0.056	1.08
25	1.601	0.058	1.14
26	1.664	0.061	1.20
27	1.665	0.062	1.26
28	1.613	0.060	1.32
29	1.638	0.060	1.38
30	1.672	0.062	1.45
31	1.642	0.062	1.51
32	1.668	0.060	1.57
33	1.576	0.029	1.60

Cruise No: 2009804

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
5	1.3622
6	0.9216
7	0.7414
8	0.6648
9	0.6231
10	0.6126
11	0.6091
12	0.6126
13	0.616
14	0.616
15	0.616
16	0.6057
17	0.5862
18	0.5862
19	0.5926
20	0.5893
21	0.5926
22	0.6231
23	0.6303
24	0.6376
25	0.6414
26	0.6414
27	0.6414
28	0.6452
29	0.649
30	0.6608
31	0.6772
32	0.6944
33	0.7414
34	0.801
35	0.9293
36	1.201

Cruise No: 2009804

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	10
4	9
5	10
6	11
7	12
8	12
9	11
10	12
11	13
12	13
13	14
14	12
15	13
16	13
17	12
18	16
19	15
20	12
21	12
22	12
23	13
24	13
25	13
26	16
27	14
28	14
29	13
30	12
31	12
32	12

Cruise No: 2009804

Station: 20

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.42	0.69	71.63	2.53	2.52	51.50	106.19
18	1.56	0.87	67.72	2.76	2.10	44.46	80.04
33	1.58	0.89	66.68	2.75	2.00	43.34	76.48
35	1.50	0.8314	65.3608	2.4003	1.8869	44.5979	80.4987

Cruise No: 2009804

Station: 20

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	4.80	1.83	2.63
20	4.65	2.55	1.83
30	4.00	1.37	2.92

Cruise No: 2003801

Station: 20

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
10	0.91	3.33	4.76
15	0.88	3.98	4.04
20	1.01	4.51	3.69
25	1.02	4.28	3.84
30	0.95	4.11	3.75
35	1.11	4.58	3.67
40	0.94	3.9	4.07

Cruise No: 2009804

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1459.072
4	1461.964
5	1475.059
6	1469.872
7	1472.863
8	1475.855
9	1473.003
10	1468.985
11	1468.457
12	1469.815
13	1467.626
14	1470.145
15	1468.681
16	1463.231
17	1465.637
18	1465.952
19	1467.844
20	1472.802
21	1472.486
22	1468.159
23	1468.789
24	1475.451
25	1475.254
26	1477.208
27	1481.232
28	1482.781
29	1479.562
30	1479.368
31	1476.938
32	1480.528
33	1489.796
34	1479.439

Cruise No: 2009804

Station: 20

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1456.37	1449.86	6.72
20	1459.13	1461.61	7.41
30	1456.37	1457.67	7.52

Cruise No: 2009804

Station: 23

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.370	0.034	0.03
3	1.389	0.034	0.07
4	1.347	0.034	0.10
5	1.400	0.035	0.14
6	1.363	0.035	0.17
7	1.385	0.034	0.21
8	1.365	0.034	0.24
9	1.354	0.037	0.28
10	1.511	0.044	0.32
11	1.514	0.047	0.37
12	1.457	0.044	0.41
13	1.466	0.043	0.45
14	1.456	0.044	0.50
15	1.507	0.046	0.54
16	1.483	0.045	0.59
17	1.443	0.043	0.63
18	1.500	0.046	0.68
19	1.525	0.049	0.73
20	1.552	0.051	0.78
21	1.526	0.050	0.83
22	1.520	0.048	0.87
23	1.469	0.047	0.92
24	1.540	0.049	0.97
25	1.529	0.050	1.02
26	1.541	0.048	1.07
27	1.452	0.046	1.11
28	1.512	0.044	1.16
29	1.423	0.042	1.20
30	1.443	0.041	1.24
31	1.472	0.043	1.28
32	1.467	0.043	1.33
33	1.456	0.043	1.37
34	1.485	0.045	1.42
35	1.490	0.047	1.46
36	1.547	0.050	1.51
37	1.556	0.051	1.56
38	1.496	0.025	1.59

Cruise No: 2009804

Station: 23

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	0.9216
5	0.7033
6	0.6057
7	0.5619
8	0.5423
9	0.5369
10	0.5369
11	0.5369
12	0.5396
13	0.5423
14	0.5477
15	0.5505
16	0.5505
17	0.5505
18	0.5533
19	0.545
20	0.5369
21	0.5396
22	0.5396
23	0.5396
24	0.5477
25	0.583
26	0.5893
27	0.5958
28	0.5991
29	0.5991
30	0.5862
31	0.583
32	0.5862
33	0.6024
34	0.6126
35	0.6267
36	0.6568
37	0.7172
38	0.825
39	1.0531

Cruise No: 2009804

Station: 23

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	11
3	11
4	11
5	10
6	10
7	10
8	13
9	12
10	11
11	11
12	12
13	11
14	11
15	10
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31	13
32	14
33	13
34	14
35	14

Cruise No: 2009804

Station: 23

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.37	0.60	75.38	2.56	3.06	56.33	129.00
18	1.44	0.70	72.61	2.66	2.65	51.52	106.28
36	1.49	0.78	69.55	2.64	2.28	47.79	91.52
39	1.46	0.7165	72.1740	2.5749	2.5938	50.7756	103.1514

Cruise No: 2009804
 Station: 23
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Station: 2009804
 Sample Type: 23
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	2.74	1.71	1.60
15	3.32	1.99	1.67
25	4.00	1.83	2.19
35	4.54	1.00	4.56

<u>Depth Down (</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
39	4.11894

Cruise No: 2003801

Station: 23

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.74	6.44	41.11
10	1.45	5.72	41.48
15	1.24	5.88	41.56
20	1.25	4.96	42.22
25	0.9	4.4	43.61
30	1.03	5.04	42.27
35	0.43	3.24	44.25

Cruise No: 2009804

Station: 23

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1458.682
3	1456.816
4	1457.37
5	1449.526
6	1452.278
7	1455.292
8	1460.612
9	1455.101
10	1452.83
11	1457.719
12	1453.384
13	1454.837
14	1454.516
15	1456.208
16	1455.477
17	1453.47
18	1456.529
19	1454.924
20	1457.262
21	1462.303
22	1463.602
23	1460.216
24	1457.352
25	1460.185
26	1459.321
27	1456.668
28	1460.379
29	1460.379
30	1456.987
31	1453.765
32	1452.662
33	1454.893
34	1456.307
35	1458.943
36	1462.663
37	1467.111
38	1457.214

Cruise No: 2009804

Station: 23

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1456.37	1457.67	7.79
15	1456.37	1461.61	8.04
25	1456.37	1449.86	8.52
35	1456.37	1461.61	8.77

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Cruise No: 2009804

Station: 26

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.43	0.63	78.19	3.09	3.59	55.97	127.11
50	1.45	0.70	72.95	2.71	2.70	51.56	106.44
90	1.46	0.73	72.15	2.71	2.59	50.46	101.88
101	1.489	0.781	69.172	2.534	2.244	47.557	90.683
102	1.539	0.847	67.632	2.616	2.089	44.986	81.773
108	1.50	0.80	68.99	2.65	2.22	46.99	88.64
165	1.59	0.92	64.77	2.68	1.84	41.81	71.86
223	1.62	0.96	64.34	2.74	1.80	40.74	68.76
253	1.636	0.980	64.031	2.725	1.780	40.085	66.903
254	1.639	0.979	64.451	2.754	1.813	40.265	67.406
258	1.66	1.03	61.33	2.71	1.59	37.80	60.78
332	1.64	0.99	62.66	2.71	1.68	39.21	64.50
398	1.66	1.03	61.74	2.73	1.61	38.08	61.50
403	1.664	1.012	63.592	2.781	1.747	39.144	64.323
404	1.660	1.020	62.526	2.722	1.669	38.560	62.760
408	1.68	1.07	60.41	2.73	1.53	36.73	58.04
462	1.64	1.00	62.13	2.69	1.64	38.81	63.43
525	1.73	1.14	57.71	2.72	1.36	34.17	51.91
562	1.72	1.11	59.33	2.77	1.46	35.34	54.65
575	1.71	1.10	59.14	2.73	1.45	35.46	54.95

Cruise No: 2009804
 Station: 26
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>		<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
5	2.06	1.60	1.29
15	2.77	1.55	1.79
25	3.66	1.83	2.00
35	2.66	0.89	3.00
45	3.54	2.51	1.41
55	3.21	3.54	0.91
65	3.31	0.34	9.67
75	2.44	1.11	2.20
85	2.97	2.74	1.08
95	3.10	1.00	3.11
110	2.86	1.26	2.27
120	2.88	1.44	2.00
130	4.11		
140	3.21		
150	3.66	2.17	1.68
160	4.76	2.66	1.79
170	5.48		
180	4.98		
190	5.25	2.06	2.56
200	4.76	1.55	3.07
210	5.48		
220	3.99		
260	9.37	4.34	2.16
270	8.75	1.33	6.58
280	10.05		
290	10.08		
300	8.11		
310	7.53		
320	10.05	2.51	4.00
330	7.98	4.98	1.60
340	8.91	8.11	1.10
350	9.64		
360	10.17		
370	8.97		
380	9.71		
390	10.17	2.40	4.24
400	7.64	4.43	1.72
410	14.51	5.14	2.82
420	11.30	1.66	6.80
430	12.45		
440	9.41		
450	13.59	3.77	3.61
460	12.07	1.99	6.06
470	13.02		
480	12.41		
490	14.28	6.05	2.36
500	13.07	2.77	4.72
510	13.94		
520	17.61		
557	14.28	1.03	13.89
567	14.62	0.55	26.40
577	14.39	0.91	15.75

Cruise No: 2009804
 Station: 26
 Sample Type: Piston Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
	101
102.0	2.16
253.0	7.26
403.0	13.63
404.0	13.34

Cruise No: 2003801
Station: 26
Sample Type: Piston Core
Data Type: Colour data

<i>Depth Down</i> <i>Core (cm)</i>	<i>A value</i>	<i>B value</i>	<i>L value</i>
5	1.88	6.24	40.61
10	1.20	5.22	41.20
15	1.10	5.08	40.86
20	0.87	5.26	40.28
25	0.96	4.88	40.94
30	0.86	4.83	40.63
35	1.03	5.17	40.60
40	0.85	4.51	41.90
45	0.61	4.03	42.33
50	0.67	3.58	42.73
55	0.73	4.26	40.68
60	0.92	4.73	40.45
65	0.78	4.41	41.11
70	0.94	4.74	40.47
75	0.79	4.20	41.08
80	0.49	3.00	44.26
85	0.57	3.91	41.17
90	0.74	4.20	41.36
95	0.65	3.96	40.69
100	0.71	3.99	41.61
105	1.05	4.47	40.61
110	0.98	4.35	41.47
115	0.82	3.71	40.99
120	0.68	3.44	42.89
125	1.06	4.61	41.28
130	0.94	4.24	40.79
135	0.96	4.34	40.81
140	0.85	3.99	40.69
145	0.76	3.64	41.13
150	0.73	3.63	41.14
155	0.69	3.53	40.66
160	0.55	3.27	40.69
165	0.64	3.49	41.41
170	0.62	3.44	40.21
175	0.72	3.86	40.89
180	0.55	3.19	43.06
185	0.59	2.98	43.41
190	0.73	3.50	42.26
195	0.68	3.48	42.08
200	0.67	3.18	43.04
205	0.69	3.45	42.65
210	0.85	3.64	43.11
215	0.74	3.57	42.88
220	0.84	3.74	41.33
225	0.78	3.69	40.49
260	0.91	4.00	41.68
265	0.93	4.02	40.38
270	0.94	4.18	40.33
275	0.90	3.96	41.33
280	0.93	3.87	40.70
285	0.93	3.93	40.41
290	0.87	3.42	43.27
295	0.79	3.36	42.63
300	0.95	4.22	40.85
305	0.76	3.54	41.81
310	0.84	3.80	41.47
315	0.75	2.94	43.72
320	0.83	3.42	43.30
325	0.97	3.75	43.66
330	0.73	3.39	43.91
335	0.79	3.13	44.72
340	0.68	2.81	46.36
345	0.67	2.90	45.81
350	0.97	3.99	40.80
355	1.05	4.24	37.91
360	0.76	3.44	43.63
365	1.00	4.10	41.34
370	0.85	3.78	42.96
375	0.96	4.18	41.29
380	0.89	3.78	42.05
385	0.90	3.96	41.70
390	0.83	3.57	42.01
395	0.82	3.08	45.36
400	1.03	4.23	42.03
405	0.62	2.88	41.42
410	0.67	3.00	42.74
415	0.57	2.62	43.52
420	0.48	2.21	46.02
425	0.57	2.63	41.69
430	0.70	3.15	42.73
435	0.61	2.85	42.49
440	0.79	3.00	43.67
445	0.58	2.93	42.16
450	0.58	3.23	41.10
455	0.77	3.32	41.67
460	0.68	3.04	42.56
465	0.69	3.46	41.40
470	0.55	2.70	43.39
475	0.60	2.76	44.71
480	0.71	3.11	41.94
485	0.62	2.73	40.95
490	0.65	3.02	41.47
495	0.71	3.46	40.99
500	0.67	3.28	42.20
505	0.63	2.89	42.10
510	0.63	2.94	41.98
515	0.62	2.90	42.11
520	0.58	2.63	43.49
525	0.68	3.22	42.27
530	0.84	2.99	43.77
560	1.48	4.77	42.42
565	0.41	2.35	45.96
570	0.68	2.81	44.80
575	0.60	3.29	42.10
580	0.86	3.74	41.68

Year	Value
1990	1.0
1991	1.0
1992	1.0
1993	1.0
1994	1.0
1995	1.0
1996	1.0
1997	1.0
1998	1.0
1999	1.0
2000	1.0
2001	1.0
2002	1.0
2003	1.0
2004	1.0
2005	1.0
2006	1.0
2007	1.0
2008	1.0
2009	1.0
2010	1.0
2011	1.0
2012	1.0
2013	1.0
2014	1.0
2015	1.0
2016	1.0
2017	1.0
2018	1.0
2019	1.0
2020	1.0
2021	1.0
2022	1.0
2023	1.0
2024	1.0
2025	1.0
2026	1.0
2027	1.0
2028	1.0
2029	1.0
2030	1.0
2031	1.0
2032	1.0
2033	1.0
2034	1.0
2035	1.0
2036	1.0
2037	1.0
2038	1.0
2039	1.0
2040	1.0
2041	1.0
2042	1.0
2043	1.0
2044	1.0
2045	1.0
2046	1.0
2047	1.0
2048	1.0
2049	1.0
2050	1.0
2051	1.0
2052	1.0
2053	1.0
2054	1.0
2055	1.0
2056	1.0
2057	1.0
2058	1.0
2059	1.0
2060	1.0
2061	1.0
2062	1.0
2063	1.0
2064	1.0
2065	1.0
2066	1.0
2067	1.0
2068	1.0
2069	1.0
2070	1.0
2071	1.0
2072	1.0
2073	1.0
2074	1.0
2075	1.0
2076	1.0
2077	1.0
2078	1.0
2079	1.0
2080	1.0
2081	1.0
2082	1.0
2083	1.0
2084	1.0
2085	1.0
2086	1.0
2087	1.0
2088	1.0
2089	1.0
2090	1.0
2091	1.0
2092	1.0
2093	1.0
2094	1.0
2095	1.0
2096	1.0
2097	1.0
2098	1.0
2099	1.0
2100	1.0

Cruise No: 2009804

Station: 26

Sample Type: Piston Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1467.20	1462.50	8.72
15	1456.09	1454.63	9.02
25	1450.60	1450.73	9.61
35	1456.09	1454.63	10.22
45	1458.85	1462.50	10.75
55	1461.63	1458.55	10.85
65	1458.85	1458.55	11.01
75	1461.63	1458.55	11.06
85	1458.85	1462.50	11.16
95	1458.85	1462.50	11.13
110	1461.63	1466.46	9.60
120	1461.63	1466.46	9.70
130	1464.41	1466.46	9.84
140	1470.01	1466.46	9.96
150	1467.20	1474.45	10.15
160	1470.01	1478.48	10.21
170	1467.20	1478.48	10.4
180	1467.20	1478.48	10.52
190	1470.01	1478.48	10.79
200	1481.33	1478.48	10.84
210	1478.48	1482.54	10.94
220	1478.48	1482.54	11
260	1501.58	1503.13	17.73
270	1498.65	1498.97	17.69
280	1498.65	1507.32	17.79
290	1501.58	1503.13	17.81
300	1495.74	1498.97	17.87
310	1507.46	1507.32	17.83
320	1501.58	1507.32	17.89
330	1498.65	1503.13	17.93
340	1495.74	1494.82	17.99
350	1498.65	1503.13	18
360	1501.58	1511.53	17.84
370	1495.74	1498.97	17.8
380	1492.83	1494.82	17.83
390	1498.65	1494.82	17.81
400	1498.65	1498.97	17.74
410	1484.19	1490.71	5.84
420	1481.33	1486.61	6.08
430	1475.65	1486.61	6.46
440	1478.48	1065.14	6.53
450	1478.48	1040.55	6.86
460	1478.48	1486.61	6.95
470	1489.94	1478.48	7.12
480	1475.65	1486.61	7.15
490	1481.33	1494.82	7.43
500	1481.33	1490.71	8.43
510	1487.06	1490.71	8.57
520	1501.58	1511.53	8.61
560	1489.59	1499.93	6.14
570	1495.40	1499.93	6.46

Cruise No: 2009804
Station: 26
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2	1.38	0.035	0.04
3	1.38	0.037	0.07
4	1.46	0.040	0.11
5	1.44	0.043	0.15
6	1.49	0.044	0.20
7	1.45	0.040	0.24
8	1.36	0.035	0.27
9	1.37	0.036	0.31
10	1.45	0.040	0.35
11	1.44	0.042	0.39
12	1.46	0.041	0.43
13	1.42	0.040	0.47
14	1.44	0.041	0.51
15	1.47	0.042	0.56
16	1.43	0.042	0.60
17	1.46	0.041	0.64
18	1.41	0.039	0.68
19	1.40	0.037	0.71
20	1.39	0.035	0.75
21	1.36	0.036	0.79
22	1.46	0.039	0.82
23	1.39	0.038	0.86
24	1.42	0.037	0.90
25	1.37	0.036	0.94
26	1.40	0.036	0.97
27	1.42	0.037	1.01
28	1.38	0.037	1.05
29	1.41	0.037	1.08
30	1.41	0.036	1.12
31	1.33	0.035	1.15
32	1.44	0.038	1.19
33	1.44	0.040	1.23
34	1.41	0.040	1.27
35	1.47	0.043	1.31
36	1.50	0.044	1.36
37	1.43	0.041	1.40
38	1.40	0.039	1.44
39	1.47	0.041	1.48
40	1.43	0.042	1.52
41	1.48	0.045	1.57
42	1.52	0.047	1.61
43	1.48	0.045	1.66
44	1.46	0.044	1.70
45	1.46	0.044	1.75
46	1.49	0.045	1.79
47	1.49	0.045	1.84
48	1.47	0.044	1.88
49	1.46	0.044	1.92
50	1.50	0.045	1.97
51	1.47	0.045	2.01
52	1.48	0.044	2.06
53	1.47	0.044	2.10
54	1.49	0.045	2.15
55	1.47	0.044	2.19
56	1.47	0.045	2.24
57	1.51	0.046	2.28
58	1.47	0.045	2.33
59	1.47	0.045	2.37
60	1.50	0.045	2.42
61	1.46	0.044	2.46
62	1.46	0.043	2.50
63	1.47	0.044	2.55
64	1.50	0.045	2.59
65	1.48	0.046	2.64
66	1.49	0.046	2.68
67	1.51	0.049	2.73
68	1.57	0.050	2.78
69	1.47	0.046	2.83
70	1.47	0.044	2.87
71	1.46	0.043	2.92
72	1.44	0.042	2.96
73	1.47	0.041	3.00
74	1.40	0.039	3.04
75	1.43	0.039	3.08
76	1.44	0.041	3.12
77	1.47	0.043	3.16
78	1.45	0.043	3.20
79	1.48	0.044	3.25
80	1.47	0.044	3.29
81	1.46	0.044	3.34
82	1.51	0.047	3.38
83	1.53	0.047	3.43
84	1.45	0.044	3.47
85	1.47	0.042	3.52
86	1.41	0.040	3.56
87	1.41	0.039	3.59
88	1.45	0.041	3.64
89	1.45	0.042	3.68
90	1.46	0.043	3.72
91	1.50	0.043	3.76
92	1.41	0.039	3.80
93	1.38	0.034	3.84
94	1.33	0.033	3.87
95	1.40	0.037	3.91
96	1.50	0.045	3.95
97	1.52	0.047	4.00
98	1.48	0.046	4.05
99	1.50	0.045	4.09
100	1.45	0.042	4.13
101	1.43	0.042	4.18
102	1.51	0.043	4.22
103	1.42	0.043	4.26
104	1.50	0.044	4.31
105	1.46	0.045	4.35
106	1.51	0.047	4.40
107	1.51	0.048	4.45
108	1.53	0.024	4.47

Cruise No: 2009804
Station: 26
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
3	1.40
4	0.90
5	0.69
6	0.59
7	0.54
8	0.51
9	0.50
10	0.50
11	0.49
12	0.48
13	0.48
14	0.48
15	0.48
16	0.49
17	0.49
18	0.49
19	0.49
20	0.48
21	0.48
22	0.48
23	0.48
24	0.48
25	0.48
26	0.48
27	0.49
28	0.49
29	0.49
30	0.48
31	0.48
32	0.49
33	0.49
34	0.49
35	0.49
36	0.49
37	0.50
38	0.50
39	0.50
40	0.50
41	0.50
42	0.50
43	0.50
44	0.49
45	0.49
46	0.48
47	0.49
48	0.49
49	0.49
50	0.49
51	0.50
52	0.50
53	0.50
54	0.50
55	0.50
56	0.49
57	0.49
58	0.49
59	0.49
60	0.49
61	0.50
62	0.50
63	0.50
64	0.50
65	0.50
66	0.50
67	0.51
68	0.51
69	0.51
70	0.51
71	0.51
72	0.51
73	0.51
74	0.51
75	0.51
76	0.50
77	0.51
78	0.51
79	0.50
80	0.50
81	0.51
82	0.51
83	0.51
84	0.51
85	0.51
86	0.51
87	0.51
88	0.51
89	0.51
90	0.51
91	0.52
92	0.52
93	0.52
94	0.52
95	0.51
96	0.53
97	0.54
98	0.54
99	0.54
100	0.54
101	0.54
102	0.55
103	0.55
104	0.55
105	0.56
106	0.56
107	0.60
108	0.66
109	0.78
110	0.99

Cruise No: 2009804

Station: 26

Sample Type: Trieger Weight Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	15
3	15
4	14
5	15
6	14
7	13
8	14
9	15
10	14
11	14
12	14
13	14
14	15
15	15
16	15
17	15
18	16
19	15
20	13
21	14
22	11
23	14
24	16
25	13
26	15
27	15
28	13
29	15
30	14
31	15
32	15
33	14
34	14
35	12
36	14
37	15
38	14
39	14
40	14
41	13
42	13
43	13
44	14
45	15
46	15
47	15
48	14
49	15
50	14
51	16
52	16
53	16
54	16
55	16
56	14
57	14
58	14
59	15
60	14
61	14
62	15
63	15
64	16
65	15
66	16
67	16
68	15
69	16
70	16
71	16
72	15
73	16
74	14
75	16
76	14
77	15
78	17
79	17
80	15
81	14
82	15
83	16
84	15
85	13
86	13
87	14
88	15
89	15
90	16
91	14
92	16
93	15
94	8
95	10
96	12
97	13
98	14
99	15
100	15
101	15
102	13
103	14
104	14
105	15
106	16

Cruise No: 2009804

Station: 26

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.44	0.68	73.82	2.74	2.82	52.46	110.36
57	1.47	0.74	71.82	2.72	2.55	49.94	99.75
105	1.46	0.73	71.60	2.66	2.52	50.22	100.89

Cruise No: 2009804

Station: 26

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	1.94	1.14	1.70
20	2.55	1.66	1.53
30	3.54	2.74	1.29
40	2.66	2.66	1.00
50	3.43	2.86	1.20
60	3.10	2.66	1.17
70	2.86	1.14	2.50
80	3.99	1.00	4.00
90	3.31	2.06	1.61
100	4.87	1.77	2.75

Cruise No: 2003801

Station: 26

Sample Type: Trigger Weight Core

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.72	6.31	40.87
10	1.77	6.68	41.46
15	2.23	7.27	40.94
20	1.18	5.04	41.98
25	1.28	5.56	40.95
30	1.16	5.16	40.62
35	1.02	4.49	41.40
40	0.78	4.19	42.52
45	0.72	4.40	41.76
50	0.63	3.68	41.07
55	0.96	4.85	39.57
60	0.96	4.41	41.21
65	0.52	2.83	45.97
70	0.78	4.12	41.42
75	0.87	4.74	40.31
80	0.93	4.86	40.32
85	0.75	4.58	41.63
90	0.80	4.52	40.61
95	0.87	4.70	40.73
100	0.78	3.80	41.82
105	0.79	4.54	41.12
110	0.70	3.87	41.34

Cruise No: 200804
Station: 26
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
1	1459.81
2	1444.61
3	1436.75
4	1418.03
5	1418.41
6	1415.95
7	1411.67
8	1414.37
9	1416.44
10	1416.19
11	1414.22
12	1415.99
13	1414.63
14	1417.65
15	1416.90
16	1419.12
17	1421.42
18	1419.69
19	1422.05
20	1424.25
21	1424.38
22	1417.56
23	1419.98
24	1416.16
25	1414.80
26	1410.43
27	1412.81
28	1413.84
29	1414.20
30	1414.54
31	1414.87
32	1416.89
33	1414.49
34	1418.54
35	1417.78
36	1425.93
37	1428.00
38	1419.12
39	1418.09
40	1423.09
41	1420.39
42	1420.72
43	1419.36
44	1413.99
45	1413.66
46	1414.32
47	1412.95
48	1414.27
49	1421.61
50	1413.92
51	1418.18
52	1419.20
53	1413.90
54	1412.91
55	1418.90
56	1419.96
57	1414.23
58	1414.95
59	1413.22
60	1410.88
61	1415.82
62	1417.79
63	1415.44
64	1416.75
65	1419.73
66	1421.04
67	1419.69
68	1419.69
69	1417.08
70	1419.07
71	1419.02
72	1419.04
73	1417.13
74	1420.19
75	1418.54
76	1416.20
77	1421.87
78	1421.83
79	1416.15
80	1416.15
81	1414.16
82	1412.82
83	1412.90
84	1415.79
85	1420.71
86	1420.64
87	1424.19
88	1421.22
89	1417.939
90	1424.559
91	1423.215
92	1424.926
93	1430.129
94	1427.669
95	1425.468
96	1422.832
97	1427.004
98	1428.665
99	1428.852
100	1437.479
101	1441.157
102	1434.469
103	1429.458
104	1434.854
105	1434.854
106	1433.377
107	1436.016
108	1437.995

Cruise No: 2009804

Station: 26

Sample Type: Trigger Weight Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
10	1464.69	1485.69	9.97
20	1467.48	1465.57	10.07
30	1464.69	1461.61	10.32
40	1459.13	1457.67	10.45
50	1464.69	1465.57	10.75
60	1464.69	1457.67	10.93
70	1461.90	1457.67	11.19
80	1464.69	1461.61	11.34
90	1461.90	1473.55	11.52
100	1464.69	1461.61	11.58

Cruise No: 2009804

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.392	0.054	0.05
4	1.385	0.037	0.09
5	1.436	0.038	0.13
6	1.397	0.038	0.17
7	1.430	0.039	0.21
8	1.450	0.042	0.25
9	1.478	0.043	0.29
10	1.449	0.043	0.33
11	1.454	0.042	0.38
12	1.457	0.042	0.42
13	1.436	0.041	0.46
14	1.454	0.042	0.50
15	1.455	0.042	0.54
16	1.450	0.042	0.59
17	1.439	0.041	0.63
18	1.427	0.040	0.67
19	1.451	0.041	0.71
20	1.448	0.042	0.75
21	1.458	0.043	0.79
22	1.466	0.043	0.84
23	1.455	0.043	0.88
24	1.469	0.043	0.92
25	1.463	0.043	0.96
26	1.469	0.043	1.01
27	1.448	0.043	1.05
28	1.489	0.042	1.09
29	1.367	0.037	1.13
30	1.385	0.037	1.17
31	1.463	0.042	1.21
32	1.492	0.043	1.25
33	1.401	0.040	1.29
34	1.452	0.043	1.33
35	1.524	0.048	1.38
36	1.554	0.050	1.43
37	1.503	0.048	1.48
38	1.496	0.046	1.53
39	1.488	0.023	1.55

Cruise No: 2009804

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	1.64
5	1.0527
6	0.781
7	0.6517
8	0.5917
9	0.567
10	0.5554
11	0.5554
12	0.5554
13	0.5554
14	0.5583
15	0.5612
16	0.5612
17	0.5612
18	0.5583
19	0.5554
20	0.5362
21	0.5309
22	0.5283
23	0.5258
24	0.5258
25	0.5335
26	0.5554
27	0.5554
28	0.5612
29	0.5612
30	0.5612
31	0.5583
32	0.5554
33	0.5612
34	0.5791
35	0.5885
36	0.6082
37	0.6479
38	0.72
39	0.8594
40	1.1723

Cruise No: 2009804

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	13
4	13
5	13
6	14
7	13
8	14
9	15
10	14
11	14
12	14
13	14
14	13
15	13
16	14
17	14
18	14
19	14
20	14
21	13
22	14
23	15
24	15
25	14
26	11
27	13
28	13
29	14
30	14
31	14
32	14
33	14
34	13
35	14
36	15

Cruise No: 2009804

Station: 34

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.39	0.60	77.81	2.86	3.51	57.24	133.86
20	1.45	0.69	73.97	2.78	2.84	52.31	109.69
37	1.50	0.78	71.10	2.78	2.46	48.44	93.94
40	1.44	0.7062	71.6363	2.4897	2.5256	50.9512	103.8784

Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	5	2.97	
10	3.54	2.86	1.24
15	2.88	1.00	2.89
20	2.22	1.66	1.33
25	4.46	2.06	2.17
30	2.06	0.23	9.00
35	4.21	1.33	3.17

Cruise No: 2003801
 Station: 34
 Sample Type: Push Core
 Data Type: Shipboard Torvane

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
40	2.54982

Cruise No: 2003801

Station: 34

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	3.02	8.92	42.15
10	2.14	7.4	40.9
15	2.34	7.57	39.02
20	1.24	5.55	40.39
25	0.94	4.5	40.52
30	0.95	4.98	40.68
35	1.13	5.48	40.34
40	0.96	4.8	41.81

Cruise No: 2009804

Station: 34

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1491.204
4	1489.468
5	1491.077
6	1489.242
7	1493.06
8	1496.524
9	1495.2
10	1496.536
11	1494.245
12	1492.272
13	1491.765
14	1489.607
15	1493.545
16	1490.566
17	1491.531
18	1493.679
19	1493.347
20	1492.681
21	1488.395
22	1488.103
23	1489.937
24	1490.597
25	1490.927
26	1490.448
27	1490.628
28	1490.151
29	1489.02
30	1487.422
31	1488.258
32	1491.547
33	1493.863
34	1482.331
35	1488.061
36	1489.763
37	1495.448
38	1499.018

Cruise No: 2009804

Station: 34

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1459.13	1461.61	5.74
15	1459.13	1465.57	5.93
25	1456.37	1461.61	6.39
35	1453.61	1461.61	6.7

Cruise No: 2009804

Station: 36

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
4	1.43	0.63	78.19	3.09	3.59	55.97	127.11
50	1.45	0.70	72.95	2.71	2.70	51.56	106.44
90	1.46	0.73	72.15	2.71	2.59	50.46	101.88
104	1.46	0.7253	71.2819	2.5255	2.4821	50.1593	100.6392
108	1.51	0.7770	71.2063	2.6986	2.4730	48.4110	93.8396
108	1.50	0.80	68.99	2.65	2.22	46.99	88.64
165	1.59	0.92	64.77	2.68	1.84	41.81	71.86
223	1.62	0.96	64.34	2.74	1.80	40.74	68.76
254	1.53	0.8178	69.4814	2.6796	2.2767	46.5248	87.0026
258	1.66	1.03	61.33	2.71	1.59	37.80	60.78
259	1.56	0.8648	68.0797	2.7093	2.1328	44.6319	80.6096
332	1.64	0.99	62.66	2.71	1.68	39.21	64.50
398	1.66	1.03	61.74	2.73	1.61	38.08	61.50
408	1.68	1.07	60.41	2.73	1.53	36.73	58.04
409	1.59	0.9023	66.7867	2.7166	2.0108	43.1163	75.7973
410	1.58	0.8828	67.9115	2.7512	2.1164	44.0628	78.7717
462	1.64	1.00	62.13	2.69	1.64	38.81	63.43
525	1.73	1.14	57.71	2.72	1.36	34.17	51.91
562	1.72	1.11	59.33	2.77	1.46	35.34	54.65
562	1.58	0.8845	67.4674	2.7189	2.0738	43.8540	78.1070
563	1.61	0.9313	65.9962	2.7389	1.9409	42.0504	72.5638
575	1.71	1.10	59.14	2.73	1.45	35.46	54.95

Cruise No: 2009804
 Station: 36
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Cruise No: 2009804
 Station: 36
 Sample Type: Piston Core
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u>		<u>Sensitivity</u>
	<u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	
5	2.74	3.08	0.89
15	1.99	1.77	1.13
25	3.66		
35	3.21		
45	3.66	2.28	1.60
55	3.88	1.55	2.50
65	3.66		
75	2.88		
85	3.88	2.74	1.42
95	3.32	1.55	2.14
105	3.88	3.08	1.26
115	6.65	1.77	3.75
125	5.37	2.40	2.24
135	4.65	1.44	3.23
145	7.20	1.71	4.20
155	5.54	2.77	2.00
165	5.71	1.94	2.94
175	4.54	2.33	1.95
185	5.60	4.11	1.36
195	5.76	2.66	2.17
205	5.83	3.66	1.59
215	5.43	1.44	3.77
225	5.94	4.46	1.33
256	6.17		
265	9.71		
275	7.20		
285	7.08	4.23	1.68
295	4.21	2.22	1.90
305	7.65	1.37	5.58
315	7.31	2.77	2.64
325	8.00		
335	6.42		
345	7.88	4.68	1.68
355	7.42	1.44	5.15
365	7.65	3.66	2.09
375	7.20	1.99	3.61
385	9.37	4.68	2.00
395	7.53	2.55	2.96
405	9.48	0.46	20.75
415	10.51	3.88	2.71
425	9.08	1.77	5.12
435	9.82	2.63	3.74
445	10.85	1.99	5.44
455	10.74	2.28	4.70
465	10.08	4.32	2.33
475	10.17		
485	9.71	5.14	1.89
495	10.85	3.66	2.97
505	8.91	1.49	6.00
515	10.19	5.32	1.92
525	9.94	1.94	5.12
535	10.41	0.66	15.67
545	8.00	3.77	2.12
555	7.31	1.00	7.33
570	11.88	6.51	1.82
580	12.63	7.98	1.58
590	10.28		
600	9.64		
610	11.77	7.54	1.56
620	10.41	3.10	3.36
630	11.54	9.37	1.23
640	10.08	3.43	2.94
650	15.65		
660	9.19		
670	10.40	8.91	1.17
680	9.75	5.54	1.76

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
	104.0
108.0	4.41
254.0	10.20
259.0	8.43
409.0	10.10
410.0	9.41
562.0	11.18
563.0	12.95

Cruise No: 2001801
 Station: 56
 Sample Type: Pluton Core
 Data Type: Colour data

Depth Down Core (cm)	A value	B value	L value
5	1.45	8.00	40.89
10	1.00	5.17	40.45
15	1.01	5.00	40.76
20	1.17	4.95	40.40
25	0.48	3.91	42.37
30	0.84	4.64	39.51
35	0.93	4.88	40.01
40	0.90	4.78	40.73
45	0.76	4.71	40.52
50	0.89	4.78	40.54
55	0.72	4.42	41.01
60	0.66	3.81	41.45
65	0.83	4.50	40.41
70	0.57	3.43	39.01
75	0.65	4.15	41.16
80	0.78	4.21	40.29
85	0.76	4.44	40.34
90	0.57	3.42	41.92
95	0.69	3.49	41.11
100	0.49	3.19	41.67
105	0.25	1.49	41.60
110	0.48	3.69	40.10
115	0.60	3.75	40.91
120	0.42	2.87	44.23
125	0.80	3.96	41.33
130	0.69	3.85	41.93
135	0.69	3.79	42.73
140	0.43	3.74	41.16
145	0.67	3.55	43.26
150	0.70	3.70	42.70
155	0.57	3.28	44.62
160	0.64	4.01	41.67
165	0.82	4.26	41.15
170	0.53	3.24	44.16
175	0.58	3.47	42.53
180	0.63	3.48	42.87
185	0.65	3.56	42.52
190	0.54	3.60	42.37
195	0.60	3.72	42.45
200	0.73	3.56	44.00
205	0.41	3.00	42.80
210	0.52	3.81	41.57
215	0.80	4.17	41.87
220	0.28	2.62	40.64
225	0.55	3.37	43.40
255	0.46	3.24	43.04
260	0.81	3.89	40.18
265	0.73	3.82	40.52
270	0.67	3.73	42.34
275	0.73	4.25	39.59
280	0.58	3.44	40.94
285	0.69	3.92	40.11
290	0.88	3.57	41.55
295	0.83	4.17	41.48
300	0.44	3.39	40.18
305	0.83	4.08	41.50
310	0.57	3.67	40.43
315	0.73	3.67	41.77
320	0.41	2.96	44.63
325	0.77	3.70	42.43
330	0.58	2.69	44.49
335	0.58	2.66	45.49
340	0.76	3.32	41.81
345	0.63	3.68	41.80
350	0.68	4.16	40.34
355	0.72	4.16	40.65
360	0.78	3.94	41.39
365	0.50	2.90	42.95
370	0.48	3.06	42.75
375	0.64	3.93	40.55
380	0.52	3.12	42.13
385	0.79	3.95	40.91
390	0.73	3.54	42.47
395	0.67	3.86	40.70
400	0.80	3.82	41.90
405	0.88	3.86	41.12
410	0.39	2.95	43.74
415	0.61	3.42	41.78
420	0.57	3.43	40.62
425	0.53	3.06	41.49
430	0.50	3.28	39.61
435	0.68	3.79	40.99
440	0.61	3.60	40.75
445	0.38	2.68	45.40
450	0.56	3.66	40.60
455	0.62	3.69	40.85
460	0.47	3.00	39.34
465	0.61	3.42	41.72
470	0.46	2.93	40.65
475	0.56	3.46	41.47
480	0.81	3.87	40.49
485	0.67	3.78	40.69
490	0.64	3.48	40.82
495	0.67	3.36	39.89
500	0.70	3.79	40.90
505	0.47	2.98	41.77
510	0.37	2.88	40.73
515	0.53	3.17	41.61
520	0.43	2.92	40.25
525	0.51	3.66	40.32
530	0.38	2.95	42.02
535	0.71	3.59	41.31
540	0.66	3.70	40.79
545	0.62	3.77	40.59
550	0.59	3.36	39.46
555	0.70	3.94	40.30
560	0.69	3.55	40.59
565	0.31	2.70	39.13
570	0.36	2.79	39.34
575	0.37	3.11	37.63
580	0.36	2.83	42.57
585	0.29	2.71	38.78
590	0.28	2.88	40.31
595	0.21	2.48	40.19
600	-0.28	1.18	37.56
605	0.29	2.95	40.93
610	0.29	2.84	40.46
615	0.43	2.86	40.56
620	0.38	2.73	42.93
625	0.40	3.01	40.73
630	0.42	3.14	39.37
635	0.29	2.62	38.47
640	0.44	3.26	38.61
645	0.63	3.52	39.39
650	0.36	2.92	37.05
655	0.54	3.28	41.39
660	0.42	2.70	41.87
665	0.26	2.66	38.58
670	0.59	3.36	38.25
675	0.48	3.44	40.48
680	0.25	2.93	40.81
685	0.58	3.26	41.68

Cruise No: 2009804

Station: 36

Sample Type: Piston Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Temperature (C)
5	1469.62	1475.27	11.66
15	1458.45	1232.18	12.12
25	1466.81	1475.27	12.4
35	1466.81	1483.40	12.61
45	1469.62	1487.50	12.78
55	1469.62	1483.40	13.03
65	1469.62	1483.40	13.04
75	1472.44	1475.27	13.24
85	1466.81	1475.27	13.33
95	1475.27	1475.27	13.57
115	1475.27	1483.40	9.32
125	1466.81	1483.40	9.78
135	1469.62	1471.24	9.89
145	1475.27	1483.40	10.18
155	1472.44	1483.40	10.39
165	1469.62	1483.40	10.61
175	1469.62	1487.50	10.75
185	1472.44	1487.50	10.92
195	1472.44	1483.40	11.08
205	1472.44	1483.40	11.24
215	1472.44	1487.50	11.3
225	1480.97	1487.50	11.48
265	1480.97	1487.50	16.61
275	1475.27	1483.40	16.7
285	1480.97	1483.40	16.71
295	1480.97	1483.40	16.83
305	1483.83	1483.40	16.88
315	1486.71	1487.50	16.97
325	1483.83	1487.50	17.03
335	1480.97	1487.50	17.1
345	1483.83	1483.40	17.16
355	1480.97	1491.62	17.21
365	1486.71	1491.62	17.13
375	1483.83	1487.50	17.03
385	1486.71	1491.62	17.03
395	1489.59	1491.62	16.26
415	1489.59	1495.76	11.36
425	1480.97	1491.62	11.74
435	1480.97	1491.62	11.87
445	1483.83	1491.62	12.17
455	1483.83	1495.76	12.3
465	1483.83	1495.76	12.62
475	1483.83	1491.62	12.72
485	1483.83	1491.62	12.91
495	1492.49	1499.93	12.99
505	1483.83	1495.76	13.12
515	1483.83	1495.76	13.25
545	1486.71	1495.76	13.75
555	1486.71	1491.62	13.76
570	1486.68	1499.79	0.61
580	1458.48	1467.27	0.54
590	1452.97	1463.31	0.98
600	1455.72	1463.31	1.79
610	1464.04	1467.27	2.44
620	1458.48	1463.31	2.78
630	1461.25	1467.27	3.06
640	1464.04	1479.3	4.19
650	1464.04	1475.27	4.53
660	1464.04	1483.36	4.9
670	1469.63	1479.3	5.98
680	1461.25	1479.3	6.27

Cruise No: 2009804
 Station: 35
 Sample Type: Trigger Weight Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.42	0.058	0.06
4	1.46	0.041	0.10
5	1.42	0.037	0.14
6	1.29	0.031	0.17
7	1.35	0.031	0.20
8	1.36	0.034	0.23
9	1.43	0.038	0.27
10	1.41	0.038	0.31
11	1.41	0.039	0.35
12	1.45	0.041	0.39
13	1.45	0.040	0.43
14	1.38	0.037	0.46
15	1.40	0.037	0.50
16	1.42	0.039	0.54
17	1.44	0.041	0.58
18	1.48	0.043	0.62
19	1.46	0.042	0.67
20	1.43	0.041	0.71
21	1.47	0.044	0.75
22	1.52	0.046	0.80
23	1.44	0.042	0.84
24	1.42	0.040	0.88
25	1.45	0.042	0.92
26	1.49	0.046	0.97
27	1.53	0.048	1.01
28	1.49	0.046	1.06
29	1.47	0.046	1.11
30	1.51	0.047	1.15
31	1.51	0.047	1.20
32	1.49	0.047	1.25
33	1.51	0.047	1.29
34	1.49	0.046	1.34
35	1.47	0.044	1.38
36	1.46	0.043	1.43
37	1.47	0.043	1.47
38	1.48	0.044	1.51
39	1.46	0.044	1.56
40	1.48	0.044	1.60
41	1.46	0.045	1.65
42	1.52	0.046	1.69
43	1.48	0.047	1.74
44	1.53	0.048	1.79
45	1.51	0.049	1.84
46	1.51	0.048	1.88
47	1.51	0.047	1.93
48	1.50	0.048	1.98
49	1.54	0.049	2.03
50	1.53	0.051	2.08
51	1.56	0.049	2.13
52	1.46	0.045	2.17
53	1.45	0.044	2.22
54	1.54	0.048	2.27
55	1.53	0.050	2.32
56	1.52	0.048	2.36
57	1.49	0.046	2.41
58	1.46	0.044	2.46
59	1.49	0.047	2.50
60	1.56	0.050	2.55
61	1.51	0.050	2.60
62	1.54	0.048	2.65
63	1.46	0.044	2.69
64	1.45	0.041	2.73
65	1.43	0.041	2.78
66	1.47	0.042	2.82
67	1.44	0.042	2.86
68	1.49	0.044	2.90
69	1.46	0.044	2.95
70	1.49	0.045	2.99
71	1.51	0.046	3.04
72	1.48	0.045	3.08
73	1.47	0.044	3.13
74	1.46	0.044	3.17
75	1.50	0.046	3.22
76	1.51	0.047	3.27
77	1.48	0.046	3.31
78	1.49	0.045	3.36
79	1.48	0.045	3.40
80	1.49	0.045	3.45
81	1.47	0.046	3.49
82	1.52	0.048	3.54
83	1.52	0.048	3.59
84	1.51	0.024	3.61

Cruise No: 200904

Station: 35

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	1.45
5	0.95
6	0.73
7	0.63
8	0.59
9	0.56
10	0.55
11	0.55
12	0.54
13	0.54
14	0.54
15	0.54
16	0.53
17	0.54
18	0.54
19	0.54
20	0.54
21	0.54
22	0.53
23	0.53
24	0.53
25	0.53
26	0.53
27	0.53
28	0.53
29	0.53
30	0.53
31	0.53
32	0.51
33	0.52
34	0.52
35	0.52
36	0.52
37	0.52
38	0.53
39	0.53
40	0.53
41	0.53
42	0.53
43	0.53
44	0.53
45	0.53
46	0.53
47	0.53
48	0.52
49	0.53
50	0.53
51	0.53
52	0.53
53	0.53
54	0.53
55	0.53
56	0.53
57	0.53
58	0.54
59	0.54
60	0.54
61	0.55
62	0.55
63	0.55
64	0.55
65	0.55
66	0.55
67	0.55
68	0.55
69	0.54
70	0.54
71	0.54
72	0.53
73	0.53
74	0.54
75	0.56
76	0.57
77	0.57
78	0.57
79	0.57
80	0.58
81	0.58
82	0.60
83	0.62
84	0.67
85	0.76
86	0.95

Cruise No: 0
Station: 0
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	11
4	13
5	7
6	4
7	2
8	7
9	11
10	14
11	14
12	15
13	14
14	14
15	15
16	14
17	14
18	15
19	14
20	13
21	13
22	13
23	14
24	14
25	14
26	14
27	14
28	14
29	15
30	16
31	15
32	15
33	15
34	16
35	14
36	14
37	13
38	13
39	16
40	15
41	14
42	14
43	16
44	15
45	15
46	15
47	15
48	16
49	12
50	11
51	14
52	13
53	13
54	14
55	13
56	14
57	13
58	15
59	15
60	15
61	13
62	14
63	14
64	13
65	14
66	14
67	15
68	15
69	15
70	15
71	15
72	15
73	15
74	14
75	15
76	15
77	16
78	16
79	16
80	15
81	16
82	16
83	15
84	16

Cruise No: 2009804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.42	0.65	74.70	2.70	2.95	54.04	117.60
43	1.48	0.74	72.27	2.76	2.61	50.14	100.56
82	1.52	0.80	69.84	2.76	2.32	47.09	88.99

Cruise No: 2003801

Station: 36

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	3.08	1.83	1.69
15	2.22	1.00	2.22
25	3.66	1.60	2.29
35	2.99	1.55	1.93
45	4.11	3.31	1.24
55	3.66	2.10	1.74
65	4.34	2.86	1.52
75	2.22	1.44	1.54

Cruise No: 2009804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Colour data

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	2.02	6.10	41.49
10	1.31	5.43	41.23
15	1.17	5.40	41.30
20	1.16	5.44	41.13
25	0.89	4.61	42.31
30	0.67	3.57	43.47
35	0.78	4.32	41.91
40	0.55	3.03	45.85
45	0.40	3.29	44.18
50	0.86	4.28	41.05
55	0.30	2.66	44.29
60	0.42	2.97	43.82
65	0.24	2.52	45.53
70	0.55	3.10	44.44
75	0.65	4.24	41.47
80	0.58	3.65	41.96

Cruise No: 2009804
Station: 36
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1487.71
3	1496.51
4	1498.91
5	1493.20
6	1496.08
7	1486.99
8	1484.35
9	1482.54
10	1485.07
11	1485.95
12	1487.28
13	1488.04
14	1485.03
15	1483.61
16	1484.32
17	1485.03
18	1483.46
19	1483.46
20	1484.02
21	1482.81
22	1481.25
23	1482.16
24	1482.08
25	1483.69
26	1485.95
27	1483.63
28	1482.23
29	1481.94
30	1480.81
31	1484.01
32	1488.53
33	1486.98
34	1482.19
35	1481.35
36	1485.65
37	1489.99
38	1489.64
39	1486.04
40	1484.17
41	1480.80
42	1482.45
43	1480.93
44	1483.14
45	1486.53
46	1484.46
47	1484.75
48	1484.01
49	1445.23
50	1445.04
51	1438.78
52	1439.38
53	1444.74
54	1446.01
55	1448.09
56	1443.33
57	1445.82
58	1445.15
59	1443.07
60	1445.41
61	1446.08
62	1446.75
63	1449.10
64	1445.85
65	1446.70
66	1443.09
67	1443.93
68	1445.17
69	1448.54
70	1448.54
71	1448.54
72	1448.46
73	1449.44
74	1444.63
75	1445.86
76	1447.09
77	1448.96
78	1448.56
79	1450.67
80	1452.71
81	1452.71
82	1455.50
83	1454.46
84	1453.67
85	1454.77
86	1473.32

Cruise No: 2009804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
5	1458.85	1454.63	0.62
15	1442.44	1450.73	0.09
25	1450.60	1450.73	1.92
35	1442.44	1442.99	2.54
45	1447.87	1446.85	2.79
55	1447.87	1454.63	3.1
65	1442.44	1454.63	3.34
75	1447.87	1446.85	3.66

Cruise No: 2009804

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.464	0.043	0.04
3	1.474	0.045	0.09
4	1.507	0.045	0.13
5	1.443	0.044	0.18
6	1.510	0.046	0.22
7	1.499	0.048	0.27
8	1.543	0.051	0.32
9	1.611	0.052	0.37
10	1.447	0.046	0.42
11	1.450	0.041	0.46
12	1.409	0.039	0.50
13	1.417	0.040	0.54
14	1.502	0.046	0.59
15	1.536	0.049	0.63
16	1.507	0.050	0.68
17	1.591	0.054	0.74
18	1.613	0.055	0.79
19	1.504	0.049	0.84
20	1.477	0.045	0.89
21	1.467	0.046	0.93
22	1.559	0.053	0.99
23	1.659	0.061	1.05
24	1.688	0.065	1.11
25	1.694	0.067	1.18
26	1.739	0.067	1.24
27	1.647	0.061	1.31
28	1.552	0.049	1.35
29	1.350	0.037	1.39
30	1.353	0.032	1.42
31	1.329	0.030	1.45
32	1.292	0.014	1.47

Cruise No: 2009804

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	1.2471
5	0.8702
6	0.7059
7	0.6348
8	0.5983
9	0.5855
10	0.5855
11	0.5931
12	0.5931
13	0.5957
14	0.6036
15	0.6063
16	0.609
17	0.6063
18	0.6289
19	0.6318
20	0.6348
21	0.6348
22	0.6318
23	0.6289
24	0.6289
25	0.6318
26	0.6409
27	0.6534
28	0.6768
29	0.7136
30	0.788
31	0.9089
32	1.1579

Cruise No: 2009804

Station: 38

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	10
4	10
5	10
6	8
7	10
8	11
9	12
10	12
11	12
12	11
13	12
14	14
15	12
16	12
17	11
18	12
19	12
20	12
21	11
22	11
23	13
24	13
25	12
26	10
27	12
28	12

Cruise No: 2009804

Station: 38

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
2	1.46	0.57	87.35	4.50	6.90	61.11	157.15
16	1.51	0.78	70.61	2.67	2.40	47.96	92.17
28	1.55	0.85	68.36	2.69	2.16	45.12	82.20
32	1.50	0.77	70.78	2.65	2.42	48.34	93.59

Cruise No: 2009804
 Station: 38
 Sample Type: Push Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Station: 2009804
 Sample Type: 38
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
	5	2.40	
15	3.99	2.19	1.82
25	4.11	2.51	1.64

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Undrained</u> <u>Shear</u> <u>Shear</u> <u>(kPa)</u>
32	6.76683

Cruise No: 2003801

Station: 38

Sample Type: **Push Core**

Data Type: Colour data

<u>Depth Down</u>			
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.37	5.22	41.8
10	0.91	4.18	41.82
15	0.8	3.91	41.32
20	0.84	3.96	41.67
25	1.47	6.22	41.69
30	0.57	3.56	41.25

Cruise No: 2009804

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1479.48
4	1475.65
5	1478.97
6	1474.08
7	1477.50
8	1480.05
9	1486.42
10	1485.84
11	1485.84
12	1486.91
13	1485.97
14	1484.86
15	1487.32
16	1484.18
17	1483.06
18	1483.95
19	1481.12
20	1482.51
21	1484.40
22	1485.84
23	1485.08
24	1483.53
25	1483.32
26	1480.37
27	1487.53
28	1481.65
29	1475.98
30	1475.93
31	1479.16
32	1495.57

Cruise No: 2009804

Station: 38

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1458.85	1462.52	7.96
15	1464.41	1462.52	8.47
25	1464.41	1462.52	8.71

Cruise No: 2020014
Station: 02
Sample Type: Plankton
Data Type: Laboratory SST Results

Depth (cm)	MST Bulk Density (g/cm ³)	Overhead Pressure (hPa)	Total
2	1.51	0.047	0.05
3	1.49	0.046	0.09
4	1.48	0.046	0.14
5	1.50	0.045	0.18
6	1.44	0.042	0.23
7	1.44	0.042	0.27
8	1.47	0.044	0.31
9	1.49	0.045	0.36
10	1.46	0.045	0.40
11	1.50	0.046	0.45
12	1.50	0.047	0.49
13	1.49	0.045	0.54
14	1.43	0.043	0.58
15	1.50	0.045	0.63
16	1.48	0.046	0.67
17	1.50	0.045	0.72
18	1.46	0.042	0.76
19	1.42	0.040	0.80
20	1.45	0.041	0.84
21	1.45	0.042	0.88
22	1.47	0.044	0.93
23	1.52	0.048	0.97
24	1.53	0.050	1.03
25	1.58	0.055	1.07
26	1.26	0.064	1.13
29	1.39	0.066	1.20
30	1.55	0.066	1.25
31	1.50	0.049	1.30
32	1.53	0.049	1.34
33	1.53	0.049	1.39
34	1.50	0.047	1.44
35	1.49	0.045	1.49
36	1.47	0.046	1.55
37	1.52	0.048	1.58
38	1.55	0.050	1.63
39	1.52	0.049	1.68
40	1.53	0.048	1.73
41	1.50	0.048	1.78
42	1.52	0.048	1.82
43	1.52	0.049	1.87
44	1.54	0.050	1.92
45	1.54	0.050	1.97
46	1.54	0.050	2.02
47	1.53	0.050	2.07
48	1.54	0.052	2.13
49	1.59	0.054	2.18
50	1.57	0.053	2.23
51	1.55	0.053	2.29
52	1.59	0.054	2.34
53	1.56	0.054	2.39
54	1.59	0.055	2.45
55	1.60	0.056	2.50
56	1.58	0.054	2.56
57	1.53	0.050	2.61
58	1.48	0.049	2.66
59	1.59	0.054	2.71
60	1.62	0.056	2.77
61	1.54	0.053	2.82
62	1.56	0.053	2.87
63	1.59	0.054	2.93
64	1.54	0.053	2.98
65	1.57	0.054	3.03
66	1.60	0.055	3.08
67	1.43	0.045	3.13
68	1.49	0.045	3.17
69	1.51	0.047	3.22
70	1.50	0.047	3.27
71	1.49	0.047	3.32
72	1.51	0.047	3.36
73	1.47	0.045	3.41
74	1.49	0.045	3.45
75	1.47	0.043	3.49
76	1.43	0.041	3.54
77	1.44	0.042	3.58
78	1.49	0.044	3.62
79	1.49	0.046	3.67
80	1.51	0.047	3.72
81	1.53	0.048	3.76
82	1.47	0.046	3.81
83	1.51	0.046	3.86
84	1.49	0.047	3.90
85	1.51	0.048	3.95
86	1.53	0.048	4.00
87	1.49	0.048	4.05
88	1.54	0.048	4.10
89	1.50	0.047	4.14
90	1.49	0.046	4.19
91	1.51	0.048	4.24
92	1.54	0.050	4.29
93	1.53	0.049	4.34
94	1.50	0.048	4.38
95	1.53	0.049	4.43
96	1.53	0.051	4.48
97	1.56	0.052	4.53
98	1.55	0.052	4.59
99	1.55	0.052	4.64
100	1.55	0.051	4.69
101	1.52	0.049	4.74
102	1.51	0.048	4.79
103	1.52	0.048	4.84
104	1.51	0.048	4.88
105	1.53	0.048	4.93
106	1.50	0.046	4.98
107	1.48	0.044	5.02
108	1.49	0.046	5.07
109	1.53	0.048	5.12
110	1.48	0.046	5.16
111	1.49	0.046	5.21
112	1.51	0.048	5.26
113	1.53	0.048	5.30
114	1.49	0.048	5.35
115	1.53	0.047	5.40
116	1.47	0.045	5.44
117	1.46	0.043	5.49
118	1.47	0.043	5.53
119	1.46	0.042	5.57
120	1.42	0.041	5.61
121	1.45	0.043	5.66
122	1.52	0.047	5.70
123	1.51	0.049	5.75
124	1.53	0.048	5.80
125	1.47	0.047	5.85
126	1.54	0.049	5.89
127	1.53	0.049	5.94
128	1.50	0.048	5.99
129	1.51	0.048	6.04
130	1.51	0.048	6.09
131	1.51	0.049	6.14
132	1.55	0.050	6.19
133	1.53	0.050	6.24
134	1.53	0.050	6.29
135	1.56	0.053	6.34
136	1.69	0.063	6.40
137	1.74	0.069	6.47
138	1.75	0.071	6.54
139	1.76	0.074	6.62
140	1.83	0.077	6.70
141	1.82	0.077	6.77
142	1.76	0.074	6.85
143	1.79	0.074	6.92
144	1.79	0.076	7.00
145	1.84	0.080	7.08
146	1.90	0.087	7.16
147	1.99	0.092	7.26
148	1.99	0.093	7.34
149	1.99	0.094	7.43
150	1.96	0.093	7.51
151	1.96	0.091	7.61
152	1.94	0.090	7.72
153	1.94	0.089	7.83
154	1.94	0.087	7.90
155	1.84	0.083	7.98
156	1.88	0.082	8.06
157	1.85	0.086	8.15
158	2.03	0.092	8.24
159	1.95	0.092	8.33
160	1.93	0.092	8.42
161	2.04	0.095	8.52
162	1.95	0.094	8.61
163	1.98	0.094	8.71
164	2.01	0.097	8.81
165	2.06	0.101	8.91
166	2.08	0.103	9.01
167	1.99	0.098	9.11
168	2.02	0.098	9.20
169	2.04	0.098	9.30
170	1.98	0.095	9.40
171	1.98	0.094	9.49
172	1.98	0.094	9.58
173	1.99	0.096	9.68
174	2.05	0.098	9.78
175	2.00	0.098	9.88
176	2.05	0.101	9.98
177	2.12	0.105	10.08
178	2.10	0.241	10.32
182	1.86	0.232	10.55
183	2.00	0.094	10.65
184	2.06	0.096	10.74
185	1.92	0.087	10.83
186	1.76	0.074	10.93
187	1.68	0.069	10.97
188	1.80	0.073	11.05
189	1.80	0.076	11.12
190	1.78	0.079	11.20
191	1.95	0.087	11.29
192	1.96	0.093	11.38
193	2.01	0.096	11.48
194	2.05	0.100	11.58
195	2.06	0.092	11.67
196	1.68	0.081	11.71

Depth (cm)	SST Readings (Celsius)
1	1.88
2	1.02
3	0.80
4	0.79
5	0.85
6	0.82
7	0.81
8	0.82
9	0.83
10	0.87
11	0.88
12	0.89
13	0.89
14	0.89
15	0.89
16	0.89
17	0.76
18	0.72
19	0.76
20	0.83
21	0.86
22	1.23
23	1.76
24	2.53
25	2.68
26	2.00
27	1.37
28	1.03
29	0.85
30	0.79
31	0.75
32	0.73
33	0.71
34	0.70
35	0.69
36	0.68
37	0.67
38	0.66
39	0.65
40	0.65
41	0.64
42	0.64
43	0.64
44	0.63
45	0.63
46	0.62
47	0.62
48	0.62
49	0.61
50	0.61
51	0.60
52	0.59
53	0.59
54	0.59
55	0.59
56	0.59
57	0.58
58	0.60
59	0.60
60	0.60
61	0.60
62	0.60
63	0.59
64	0.58
65	0.58
66	0.58
67	0.58
68	0.58
69	0.58
70	0.58
71	0.58
72	0.58
73	0.57
74	0.56
75	0.56
76	0.55
77	0.55
78	0.55
79	0.55
80	0.56
81	0.56
82	0.56
83	0.57
84	0.58
85	0.58
86	0.58
87	0.58
88	0.58
89	0.58
90	0.58
91	0.58
92	0.59
93	0.59
94	0.59
95	0.59
96	0.60
97	0.60
98	0.60
99	0.60
100	0.60
101	0.61
102	0.61
103	0.61
104	0.61
105	0.62
106	0.62
107	0.62
108	0.62
109	0.62
110	0.62
111	0.62
112	0.62
113	0.61
114	0.62
115	0.62
116	0.62
117	0.62
118	0.63
119	0.63
120	0.63
121	0.63
122	0.63
123	0.62
124	0.61
125	0.61
126	0.62
127	0.62
128	0.63
129	0.63
130	0.64
131	0.65
132	0.65
133	0.66
134	0.67
135	0.68
136	0.70
137	0.72
138	0.74
139	0.76
140	0.77
141	0.78
142	0.79
143	0.80
144	0.82
145	0.84
146	0.85
147	0.86
148	0.88
149	0.88
150	0.82
151	0.84
152	1.00
153	1.04
154	1.10
155	1.15
156	1.18
157	1.22
158	1.26
159	1.22
160	1.18
161	1.18
162	1.17
163	1.17
164	1.17
165	1.17
166	1.23
167	1.25
168	1.26
169	1.28
170	1.28
171	1.28
172	1.29
173	1.32
174	1.32
175	1.37
176	1.41
177	1.50
178	1.59
179	2.23
180	3.54
181	4.76
182	7.77
183	12.08
184	19.13
185	7.77
186	5.86
187	5.08
188	4.49
189	3.88
190	3.39
191	2.88
192	2.53
193	2.28
194	2.28
195	2.40
196	2.84

Depth (cm)	SST	Magnetic Susceptibility
1	12	12
2	12	12
3	12	12
4	12	12
5	12	12
6	12	12
7	12	12
8	12	12
9	12	12
10	12	12
11	12	12
12	12	12
13	12	12
14	12	12
15	12	12
16	12	12
17	12	12
18	12	12
19	12	12
20	12	12
21	12	12
22	12	12
23	12	12
24	12	12
25	12	12
26	12	12
27	12	12
28	12	12
29	12	12
30	12	12
31	12	12
32	12	12
33	12	12
34	12	12
35	12	12
36	12	12
37	12	12
38	12	12
39	12	12
40	12	12
41	12	12
42	12	12
43	12	12
44	12	12
45	12	12
46	12	12
47	12	12
48	12	12
49	12	12
50	12	12
51	12	12
52	12	12
53	12	12
54	12	12
55	12	12
56	12	12
57	12	12
58	12	12
59	12	12
60	12	12
61	12	12
62	12	12
63	12	12
64	12	12
65	12	12
66	12	12
67	12	12
68	12	12
69	12	12
70	12	12
71	12	12
72	12	12
73	12	12
74	12	12
75	12	12
76	12	12
77	12	12
78	12	12
79	12	12
80	12	12
81	12	12
82	12	12
83	12	12
84	12	12
85	12	12
86	12	12
87	12	12
88	12	12
89	12	12
90	12	12
91	12	12
92	12	12
93	12	12
94	12	12
95	12	12
96	12	12
97	12	12
98	12	12
99	12	12
100	12	12
101	12	12
102	12	12
103	12	12
104	12	12
105	12	12
106	12	12
107	12	12
108	12	12
109	12	12
110	12	12
111	12	12
112	12	12
113	12	12
114	12	12
115	12	12
116	12	12
117	12	12
118	12	12
119	12	12
120	12	12
121	12	12
122	12	12
123	12	12
124	12	12
125	12	12
126	12	12
127	12	12
128	12	12
129	12	12
130	12	12
131	12	12
132	12	12
133	12	12
134	12	12
135	12	12
136	12	12
137	12	12
138	12	12
139	12	12
140	12	12
141	12	12
142	12	12
143	12	12
144	12	12
145	12	12
146	12	12
147	12	12
148	12	12
149	12	12
150	12	12
151	12	12
152	12	12
153	12	12
154	12	12
155	12	12
156	12	12
157	12	12
158	12	12
159	12	12
160	12	12

Cruise No: 2009804

Station: 40

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
3	1.49	0.77	70.56	2.71	2.40	48.44	93.94
13	1.49	0.80	67.51	2.53	2.08	46.32	86.28
23	1.52	0.82	68.36	2.67	2.16	46.09	85.49
27	1.51	0.79	69.97	2.63	2.33	47.60	90.84
28	1.53	0.82	69.58	2.69	2.29	46.56	87.11
32	1.53	0.84	68.03	2.70	2.13	45.41	83.18
100	1.55	0.88	65.96	2.64	1.94	43.46	76.87
170	1.98	1.57	39.89	2.59	0.66	20.66	26.04

Cruise No: 2003801

Station: 40

Sample Type: Piston Core

Data Type: Colour data

<u>Depth Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	0.87	4.04	40.72
10	0.62	3.35	41.31
15	0.55	3.44	40.08
20	0.32	3.02	40.21
25	0.58	3.24	41.16
30	0.78	3.68	41.73
35	0.76	3.79	40.46
40	0.72	3.95	40.12
45	0.97	4.31	42.17
50	0.94	4.11	40.77
55	0.98	4.03	41.44
60	0.91	3.91	40.83
65	0.89	4.09	40.59
70	0.77	3.70	39.76
75	0.87	4.19	40.66
80	0.89	4.10	40.71
85	0.97	3.97	41.84
90	0.94	3.59	45.46
95	0.94	4.15	40.23
100	0.68	3.44	41.29
105	0.90	4.00	41.59
110	0.78	3.74	41.45
115	0.85	3.64	42.82
120	0.98	3.76	43.46
125	0.99	3.96	40.21
130	0.82	3.63	40.06
135	0.97	3.73	40.81
140	0.82	3.65	40.29
145	0.81	2.27	39.04
150	0.53	1.50	38.77
155	0.73	1.91	39.98
160	0.69	2.06	42.64
165	0.78	2.00	42.03
170	0.78	2.20	41.08
175	0.79	1.77	41.81
180	0.80	1.67	42.27
185	0.74	1.22	41.37
190	0.67	1.49	42.35
195	0.69	1.48	41.66

Cruise No: 200204
Station: 40
Sample Type: Pinn Core
Data Type: Laboratory_MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1474.323
3	1481.864
4	1474.046
6	1468.105
7	1473.718
8	1477.446
9	1483.164
10	1478.343
11	1481.951
12	1480.557
13	1481.505
14	1476.086
15	1478.288
16	1477.102
17	1477.799
18	1480.050
19	1482.544
20	1485.885
21	1485.091
22	1483.911
23	1483.891
24	1487.685
25	1482.812
26	1481.584
33	1479.003
34	1477.109
35	1479.466
36	1481.360
37	1489.580
38	1479.723
39	1482.633
40	1482.770
41	1479.788
42	1481.715
43	1485.040
44	1487.740
45	1485.328
46	1486.047
47	1481.751
48	1481.761
49	1485.328
50	1479.263
51	1480.382
52	1479.393
53	1487.409
54	1484.949
55	1483.818
56	1484.339
57	1477.690
58	1477.161
59	1480.515
60	1477.213
61	1480.451
62	1480.119
63	1477.010
64	1472.589
65	1470.608
66	1466.865
67	1463.463
68	1481.488
69	1481.891
70	1457.398
71	1458.582
72	1454.274
73	1454.365
74	1452.041
75	1452.460
76	1450.050
77	1454.212
78	1446.322
79	1455.871
80	1458.069
81	1458.403
82	1441.215
83	1443.268
84	1440.158
85	1440.092
86	1434.854
87	1436.680
88	1437.397
89	1433.672
90	1435.309
91	1440.617
92	1437.480
93	1438.786
94	1441.792
95	1441.792
96	1436.707
97	1441.982
98	1442.890
99	1446.144
100	1444.119
101	1441.453
102	1442.820
103	1438.534
104	1436.912
105	1439.636
106	1439.374
107	1439.112
108	1438.522
109	1441.801
110	1439.961
111	1441.341
112	1443.384
113	1447.820
114	1448.802
115	1441.792
116	1442.516
117	1441.409
118	1440.291
119	1448.795
120	1458.973
126	1456.333
127	1452.143
128	1449.158
129	1453.803
130	1444.119
131	1450.538
132	1453.980
133	1460.171
134	1468.191
135	1471.291
136	1465.945
137	1464.673
138	1471.810
139	1479.788
140	1487.035
141	1478.002
142	1475.766
143	1478.404
144	1494.997

Cruise No: 2009804

Station: 40

Sample Type: *Piston Core*

Data Type: *Laboratory Discrete*

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1464.41	1454.67	8.86
15	1467.20	1478.48	9.03
35	1478.48	1478.48	12.9
45	1472.82	1478.48	13.04
55	1475.65	1482.53	13.2
65	1475.65	1470.46	13.34
75	1472.82	1470.46	13.59
85	1472.82	1478.48	13.73
95	1492.83	1490.69	13.9
105	1487.06	1482.53	14.01
115	1475.65	1482.53	14.20
125	1489.94	1486.60	14.27
135	1531.48	1545.98	14.46
145	1642.72		14.58

Cruise No: 2009804

Station: 0040PC

Sample Type: **Trigger Weight Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.57	0.054	
3	1.55	0.040	0.04
4	1.37	0.041	0.08
5	1.45	0.047	0.13
6	1.51	0.055	0.18
7	1.53	0.065	0.25
8	1.77	0.062	0.31
9	1.67	0.054	0.36
10	1.49	0.057	0.42
11	1.65	0.059	0.48
12	1.64	0.055	0.54
13	1.57	0.053	0.59
14	1.57	0.050	0.64
15	1.53	0.049	0.69
16	1.50	0.052	0.74
17	1.57	0.055	0.79
18	1.58	0.053	0.85
19	1.59	0.052	0.90
20	1.51	0.055	0.96
21	1.62	0.056	1.01
22	1.61	0.054	1.07
23	1.57	0.054	1.12
24	1.56	0.055	1.17
25	1.59	0.056	1.23
26	1.62	0.054	1.29
27	1.57	0.053	1.34
28	1.54	0.052	1.39
29	1.62	0.044	1.43
30	1.43	0.037	1.47
31	1.39	0.038	1.51
32	1.40	0.042	1.55
33	1.47	0.045	1.60
34	1.48	0.044	1.64
35	1.50	0.043	1.68
36	1.42	0.045	1.73
37	1.50	0.045	1.77
38	1.51	0.045	1.82
39	1.44	0.043	1.86
40	1.52	0.004	1.87
41	1.37	0.021	1.89

Cruise No: 2009804

Station: 0040PC

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	1.34
5	0.96
6	0.79
7	0.70
8	0.66
9	0.64
10	0.63
11	0.62
12	0.62
13	0.62
14	0.62
15	0.62
16	0.62
17	0.63
18	0.63
19	0.63
20	0.62
21	0.60
22	0.58
23	0.58
24	0.59
25	0.59
26	0.60
27	0.62
28	0.62
29	0.62
30	0.61
31	0.60
32	0.60
33	0.60
34	0.62
35	0.62
36	0.63
37	0.64
38	0.66
39	0.71
40	0.80
41	0.94

Cruise No: 2009804

Station: 0040PC

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	-1
2	1
3	6
4	4
5	0
6	1
7	2
8	5
9	11
10	11
11	10
12	11
13	12
14	13
15	13
16	12
17	12
18	12
19	13
20	12
21	12
22	11
23	14
24	12
25	12
26	12
27	12
28	13
29	13
30	11
31	12
32	11
33	12
34	11
35	12
36	12
37	11

Cruise No: 2009804

Station: 0040PC

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.45	0.71	72.58	2.70	2.65	51.15	104.69
20	1.51	0.80	69.64	2.71	2.29	47.25	89.59
38	1.51	0.79	69.53	2.69	2.28	47.30	89.74

Cruise No: 2009804

Station: 0040PC

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth</u>	<u>Peak</u>	<u>Remoulded</u>	
<u>Down Core</u>	<u>Undrained</u>	<u>Undrained</u>	
<u>(cm)</u>	<u>Shear Shear</u>	<u>Shear Shear</u>	<u>Sensitivity</u>
	<u>(kPa)</u>	<u>(kPa)</u>	
5	4.46	2.28	1.95
15	3.76	1.22	3.09
25	5.83	3.08	1.89
35	5.20	1.11	4.70



Cruise No: 2009807

Station: 0040PC

Sample Type: **Trigger Weight Core**

Data Type: Colour data

<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>
5	1.00	4.70	41.28
10	0.94	4.51	41.16
15	0.70	4.10	40.93
20	0.68	3.85	40.57
25	0.64	4.06	40.24
30	0.77	4.18	40.43
35	0.83	3.66	43.24
40	0.77	3.68	41.40

Cruise No: 2009804
Station: 0040PC
Sample Type: **Trigger Weight Core**
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1466.64
3	1501.66
4	1507.21
5	1468.76
6	1447.63
7	1448.67
8	1481.93
9	1492.20
10	1484.74
11	1479.45
12	1481.45
13	1479.92
14	1476.91
15	1478.55
16	1477.11
17	1480.84
18	1484.91
19	1484.91
20	1482.94
21	1483.73
22	1480.64
23	1480.32
24	1477.56
25	1476.46
26	1477.31
27	1481.69
28	1480.25
29	1480.71
30	1475.68
31	1479.20
32	1482.42
33	1482.09
34	1479.79
35	1482.03
36	1481.90
37	1481.49
38	1484.27
39	1492.90
40	1495.01
41	1500.97

Cruise No: 2009804

Station: 0040PC

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1456.09	1454.67	8.04
15	1456.09	1458.58	8.31
25	1461.62	1462.52	8.69
35	1467.20	1466.48	8.7

Cruise No: 2010804

Station: 26

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.4190	0.116	0.12
4	1.4483	0.040	0.16
5	1.3931	0.037	0.19
6	1.3885	0.036	0.23
7	1.3962	0.036	0.27
8	1.3836	0.036	0.30
9	1.3998	0.036	0.34
10	1.3915	0.037	0.37
11	1.4326	0.040	0.41
12	1.4508	0.042	0.46
13	1.4648	0.044	0.50
14	1.5041	0.046	0.55
15	1.4827	0.046	0.59
16	1.4944	0.046	0.64
17	1.4902	0.045	0.68
18	1.4648	0.045	0.73
19	1.4923	0.045	0.77
20	1.4884	0.045	0.82
21	1.4623	0.044	0.86
22	1.4872	0.044	0.90
23	1.4348	0.042	0.95
24	1.4435	0.041	0.99
25	1.4418	0.040	1.03
26	1.4156	0.040	1.07
27	1.4370	0.039	1.11
28	1.4067	0.039	1.15
29	1.4312	0.041	1.19
30	1.4892	0.042	1.23
31	1.4172	0.042	1.27
32	1.4877	0.043	1.31
33	1.4376	0.042	1.36
34	1.4410	0.042	1.40
35	1.4876	0.044	1.44
36	1.4832	0.045	1.49
37	1.4938	0.023	1.51

Cruise No: 2010804

Station: 26

Sample Type: ***Push Core***

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
3	0.78
4	0.61
5	0.54
6	0.51
7	0.51
8	0.51
9	0.50
10	0.51
11	0.52
12	0.53
13	0.54
14	0.54
15	0.55
16	0.55
17	0.56
18	0.56
19	0.55
20	0.55
21	0.54
22	0.54
23	0.53
24	0.52
25	0.51
26	0.51
27	0.50
28	0.50
29	0.50
30	0.51
31	0.51
32	0.51
33	0.52
34	0.53
35	0.57

Cruise No: 2010804

Station: 26

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	5
3	4
4	5
5	13
6	13
7	14
8	15
9	14
10	14
11	15
12	16
13	18
14	18
15	17
16	17
17	16
18	18
19	19
20	19
21	19
22	19
23	18
24	19
25	20
26	18
27	20
28	20
29	19
30	19
31	19
32	19
33	18
34	18
35	18
36	17
37	16

Cruise No: 2010804

Station: 26

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
13	1.46	0.78	66.72	2.35	2.00	46.64	87.41

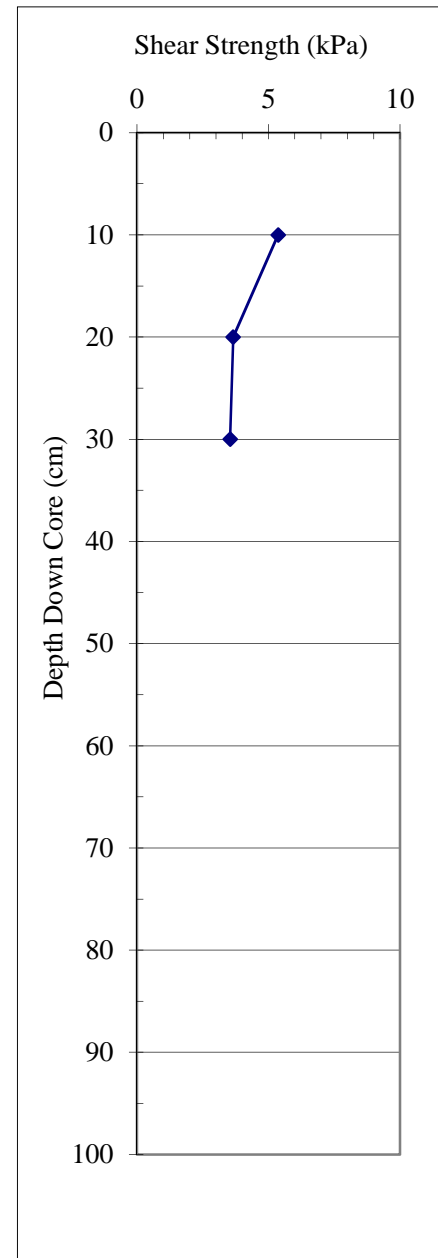
Cruise No: 2010804

Station: 26

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	5.37	0.91	5.88
20	3.66	2.10	1.74
30	3.54	1.37	2.58



Cruise No: 2010804

Station: 26

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	0.81	4.39	41.7	1.3 Y 4.00/0.70
2	1.66	11.81	35.09	2.5 Y 3.40/1.80
3	0.99	11.02	33.97	3.2 Y 3.30/1.70
4	0.58	9.44	35.28	3.5 Y 3.40/1.40
5	0.4	8.53	35.56	3.7 Y 3.50/1.30
6	0.74	8.95	36.38	3.2 Y 3.50/1.30
7	0.4	8.57	36.23	3.7 Y 3.50/1.20
8	0.28	7.89	36.16	3.8 Y 3.50/1.20
9	1.04	10.28	35.25	3.0 Y 3.40/1.60
10	0.91	10.99	32.78	3.4 Y 3.20/1.70
11	-0.14	7.54	33.68	4.7 Y 3.30/1.10
12	0.29	8.31	33.5	4.1 Y 3.30/1.30
13	-0.1	5.93	34.15	4.7 Y 3.30/0.90
14	-0.08	5.3	34.21	4.8 Y 3.30/0.80
15	0.12	4.01	37.27	3.8 Y 3.60/0.60
16	0.11	3.5	40.2	3.4 Y 3.90/0.50
17	0.05	4.11	34.79	4.3 Y 3.40/0.60
18	-0.09	4.72	33.17	4.5 Y 3.20/0.70
19	-0.05	4.56	34.14	4.4 Y 3.30/0.70
20	0.04	3.61	37.12	4.0 Y 3.60/0.50
21	0.03	4.06	37.5	4.0 Y 3.70/0.60
22	-0.2	5.74	32.55	4.9 Y 3.20/0.90
23	-0.13	4.7	37.21	4.6 Y 3.60/0.70
24	-0.13	4.63	38.27	4.6 Y 3.70/0.70
25	-0.27	5.44	35.58	5.0 Y 3.50/0.80
26	-0.03	3.52	36.5	4.3 Y 3.60/0.50
27	-0.35	5.91	36.88	5.4 Y 3.60/0.90
28	-0.22	6.18	36.49	4.9 Y 3.60/0.90
29	-0.38	7.37	35.12	5.4 Y 3.40/1.10
30	-0.13	7.54	33.92	4.8 Y 3.30/1.10
31	-0.04	6.38	35.76	4.4 Y 3.50/0.90
32	-0.13	5.96	36.8	4.7 Y 3.60/0.90
33	-0.04	5.35	37.81	4.3 Y 3.70/0.80
34	0.04	3.75	42.7	3.8 Y 4.10/0.50
35	0.18	3.09	44.17	3.1 Y 4.30/0.40
36	0.1	3.32	41.46	3.5 Y 4.10/0.40
37	0.09	4.19	40.25	3.5 Y 4.00/0.60

Cruise No: 2010804

Station: 26

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1548.432
4	1548.87
5	1529.776
6	1540.068
7	1528.571
8	1527.731
9	1527.695
10	1524.714
11	1530.619
12	1523.027
13	1526.366
14	1534.087
15	1539.837
16	1549.259
17	1546.6
18	1547.245
19	1549.329
20	1545.546
21	1545.27
22	1541.596
23	1541.538
24	1530.94
25	1518.632
26	1518.072
27	1518.198
28	1510.764
29	1508.963
30	1508.642
31	1507.774
32	1526.619
33	1533.094
34	1534.629
35	1535.106
36	1538.104
37	1538.24

Cruise No: 2010804

Station: 26

Sample Type: **Push Core**

Data Type: Laboratory Discrete

	Discrete	Discrete	
Depth	Longitudinal	Transverse	Tempreture
(cm)	Velocity (m/s)	Velocity	(C)
		(m/s)	

Cruise No: 2010804

Station: 30

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
2	1.3881	0.071	0.07
3	1.4565	0.041	0.11
4	1.4843	0.046	0.16
5	1.5350	0.048	0.21
6	1.5166	0.048	0.26
7	1.4891	0.046	0.30
8	1.4929	0.046	0.35
9	1.4818	0.045	0.39
10	1.4647	0.044	0.44
11	1.4733	0.044	0.48
12	1.4747	0.044	0.52
13	1.4720	0.045	0.57
14	1.5128	0.047	0.62
15	1.5093	0.047	0.66
16	1.4692	0.045	0.71
17	1.4935	0.046	0.75
18	1.5181	0.047	0.80
19	1.4849	0.046	0.85
20	1.4856	0.045	0.89
21	1.4944	0.047	0.94
22	1.5182	0.046	0.99
23	1.4601	0.045	1.03
24	1.4934	0.045	1.08
25	1.5002	0.045	1.12
26	1.4500	0.043	1.16
27	1.4371	0.042	1.21
28	1.4834	0.043	1.25
29	1.4571	0.042	1.29
30	1.4238	0.041	1.33
31	1.4526	0.042	1.37
32	1.4777	0.046	1.42
33	1.5473	0.049	1.47
34	1.5396	0.051	1.52
35	1.5398	0.048	1.57
36	1.4398	0.023	1.59

Cruise No: 2010804

Station: 30

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
2	0.84
3	0.63
4	0.55
5	0.51
6	0.50
7	0.49
8	0.50
9	0.51
10	0.51
11	0.51
12	0.51
13	0.51
14	0.50
15	0.50
16	0.50
17	0.50
18	0.50
19	0.50
20	0.50
21	0.50
22	0.50
23	0.50
24	0.50
25	0.51
26	0.51
27	0.52
28	0.52
29	0.53
30	0.54
31	0.55
32	0.57
33	0.62
34	0.78

Cruise No: 2010804

Station: 30

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	12
3	11
4	9
5	10
6	14
7	14
8	14
9	15
10	17
11	17
12	17
13	16
14	15
15	17
16	17
17	17
18	17
19	17
20	16
21	17
22	18
23	18
24	19
25	19
26	19
27	12
28	16
29	19
30	19
31	18
32	20
33	19
34	18
35	19
36	4

Cruise No: 2010804

Station: 30

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.5350	0.8369	68.1784	2.6299	2.1425	45.4808	83.4215
35	1.5398	0.8781	64.6198	2.4819	1.8264	42.9730	75.3557

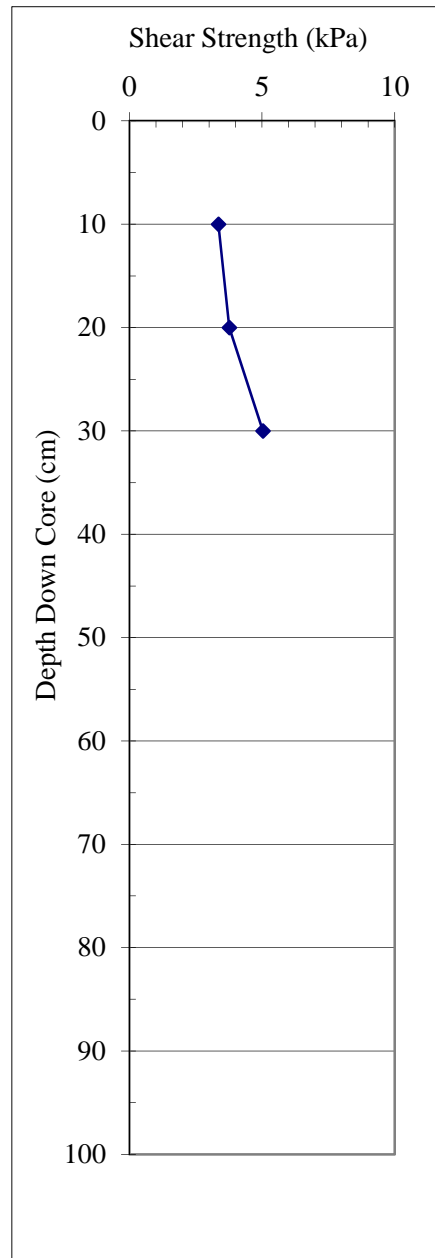
Cruise No: 2010804

Station: 30

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.36	1.34	2.50
20	3.76	1.25	3.00
30	5.03	1.17	4.29



Cruise No: 2010804

Station: 30

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.68	1.01	37.36	8.2 YR 3.50/0.20
3	0.72	4.55	38.1	1.9 Y 3.70/0.70
4	0.62	4.2	42.02	1.9 Y 4.10/0.60
5	0.32	4.15	40.05	2.9 Y 3.90/0.60
6	0.2	4.52	37.42	3.6 Y 3.60/0.70
7	0.34	3.57	43.05	2.4 Y 4.20/0.50
8	0.28	2.99	46.23	2.5 Y 4.50/0.40
9	0.18	4.47	42.12	3.4 Y 4.10/0.60
10	0.14	4.4	38.88	3.6 Y 3.80/0.60
11	0.32	3.92	43.75	2.6 Y 4.30/0.60
12	0.29	4.41	44.79	3.2 Y 4.30/0.70
13	0.02	4.52	41.55	4.0 Y 4.00/0.60
14	0.05	5.73	36.16	4.2 Y 3.50/0.90
15	0.14	4.76	36.89	3.7 Y 3.60/0.70
16	0.05	3.95	37.24	3.9 Y 3.60/0.60
17	0.02	4.05	37.29	4.0 Y 3.60/0.60
18	0.04	4.78	35.16	4.2 Y 3.40/0.70
19	-0.06	5.12	33.3	4.7 Y 3.20/0.80
20	-0.14	4.45	34.88	4.6 Y 3.40/0.70
21	0.09	3.73	38.56	3.8 Y 3.70/0.50
22	0.11	4.17	37.77	3.8 Y 3.70/0.60
23	-0.19	4.07	37.35	4.9 Y 3.60/0.60
24	0.15	3.57	40.52	3.4 Y 3.90/0.50
25	0.11	3.62	40.5	3.8 Y 3.90/0.50
26	0.21	3.27	40.83	3.0 Y 4.00/0.50
27	0.09	3.56	38.49	3.9 Y 3.70/0.50
28	0.26	2.13	39.72	2.4 Y 3.90/0.30
29	0.28	2.35	40.3	2.1 Y 3.90/0.30
30	0.08	3.22	39.12	3.9 Y 3.80/0.50
31	0.11	3.24	38.63	3.5 Y 3.80/0.50
32	0.16	3.41	39.4	3.3 Y 3.80/0.50
33	0.06	4.2	35.11	4.0 Y 3.40/0.60
34	0.07	4.13	35.62	3.9 Y 3.50/0.60
35	0.12	2.83	39.26	3.5 Y 3.80/0.40
36	-0.07	2.46	41.14	4.6 Y 4.00/0.30

Cruise No: 2010804

Station: 30

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
2	1534.108
3	1542.694
4	1541.912
5	1533.333
6	1540.531
7	1541.754
8	1543.158
9	1542.606
10	1540.531
11	1536.412
12	1533.808
13	1536.655
14	1535.097
15	1539.649
16	1538.569
17	1539.965
18	1539.86
19	1539.649
20	1535.201
21	1537.653
22	1538.462
23	1537.282
24	1538.087
25	1542.059
26	1538.918
27	1539.721
28	1535.54
29	1540.174
30	1532.988
31	1533.447
32	1526.227
33	1513.087
35	1541.638

Cruise No: 2010804

Station: 30

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1460.79	1460.05	9.33
20	1460.79	1452.21	9.41
30	1474.8	1471.98	9.6

Cruise No: 2010804

Station: 36

Sample Type: Piston Core

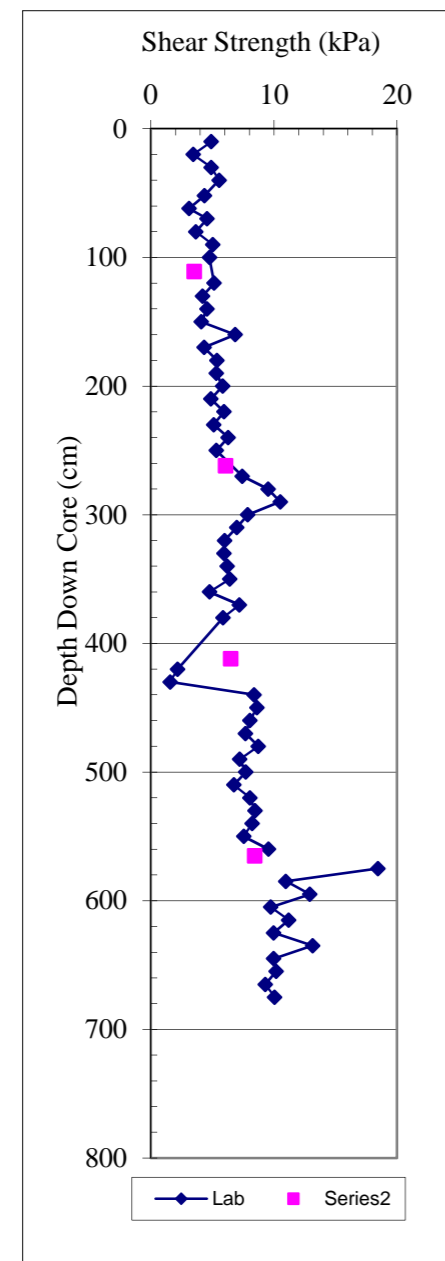
Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.4591	0.7409	70.1370	2.4810	2.3486	49.2219	96.9352
55	1.4512	0.7537	68.1129	2.3638	2.1361	48.0618	92.5365
105	1.5310	0.8530	66.2088	2.5243	1.9593	44.2837	79.4807
111	1.6352	0.9598	65.9496	2.8188	1.9368	41.3004	70.3590
125	1.5051	0.8140	67.4926	2.5040	2.0762	45.9187	84.9067
185	1.5345	0.8810	63.8208	2.4350	1.7640	42.5886	74.1816
255	1.6032	0.9438	64.3962	2.6508	1.8087	41.1313	69.8697
262	1.7416	1.0847	64.1525	3.0259	1.7896	37.7187	60.5618
275	1.6204	0.9565	64.8403	2.7203	1.8442	40.9749	69.4196
325	1.6119	0.9581	63.8464	2.6500	1.7660	40.5608	68.2393
375	1.5048	0.8703	61.9573	2.2878	1.6286	42.1622	72.8974
412	1.6983	1.0483	63.4811	2.8705	1.7383	38.2762	62.0119
425	1.6526	1.0022	63.5097	2.7466	1.7405	39.3532	64.8891
495	1.5987	0.9309	65.2132	2.6759	1.8746	41.7714	71.7369
555	1.6338	0.9821	63.6384	2.7010	1.7502	39.8862	66.3512
565	1.7633	1.1133	63.4720	3.0479	1.7376	36.8604	58.3792
570	1.6804	1.0554	61.0340	2.7085	1.5663	37.1935	59.2192
630	1.6838	1.0551	61.3953	2.7331	1.5904	37.3372	59.5844
680	1.6087	0.9416	65.1439	2.7015	1.8689	41.4662	70.8414

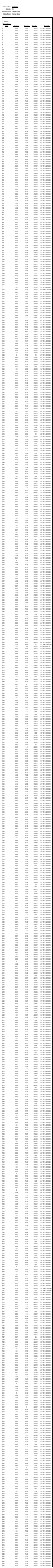
Cruise No: 2010804
 Station: 36
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Station: 2010804
 Sample Type: 36
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	4.91	3.31	1.48
20	3.43	2.77	1.24
30	4.91		
40	5.54		
52	4.34	1.60	2.71
62	3.10	2.10	1.47
70	4.57		
80	3.66		
90	5.03	1.49	3.38
100	4.76	2.22	2.15
120	5.14	1.26	4.09
130	4.21	1.99	2.11
140	4.57		
150	4.10		
160	6.85		
170	4.32		
180	5.37	0.69	7.83
190	5.32	0.55	9.60
200	5.83		
210	4.87		
220	5.94		
230	5.10		
240	6.28	5.37	1.17
250	5.32	3.43	1.55
270	7.43	2.17	3.42
280	9.53	1.99	4.78
290	10.51		
300	7.86		
310	6.97		
320	5.98		
330	5.94	5.60	1.06
340	6.20	1.66	3.73
350	6.40		
360	4.76		
370	7.20	1.49	4.85
380	5.87	2.22	2.65
420	2.18	0.50	4.33
430	1.57	2.67	0.59
440	8.39		
450	8.63		
460	8.05		
470	7.69		
480	8.73	2.68	3.25
490	7.21	3.61	2.00
500	7.72		
510	6.74		
520	8.05		
530	8.47		
540	8.22		
550	7.55	2.18	3.46
560	9.56	0.34	28.50
		5.03	0.00
575	18.46	3.20	5.77
585	10.97	4.65	2.36
595	12.91		
605	9.75		
615	11.19	6.51	1.72
625	9.97	0.89	11.25
635	13.14		
645	9.97		
655	10.17	2.51	4.05
665	9.30	2.66	3.50
675	10.05	1.49	6.77



<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
111	3.5
262	6.1
412	6.5
565	8.4



Cruise No: 2010804
 Station: 36
 Sample Type: Piston Core
 Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1465.81	1472.61	12.41
20	1465.81	1476.63	12.53
30	1471.42	1488.82	12.59
40	1479.92	1492.93	12.7
50	1465.81	1484.74	12.79
60	1465.81	1476.63	12.84
70	1468.61	1488.82	12.9
80	1468.61	1484.74	12.97
90	1471.42	1484.74	13.04
100	1471.42	1492.93	13.07
120	1471.42	1492.93	12.9
130	1471.42	1484.74	13.01
140	1468.61	1484.74	13.03
150	1468.61	1488.82	13.06
160	1479.92	1492.93	13.19
170	1474.24	1492.93	13.3
180	1474.24	1492.93	13.42
190	1474.24	1488.82	13.57
200	1474.24	1488.82	13.71
210	1474.24	1488.82	13.74
220	1471.42	1488.82	13.81
230	1471.42	1492.93	13.84
240	1474.24	1492.93	13.89
250	1474.24	1492.93	13.88
270	1471.42	1484.74	11.89
280	1479.92	1497.07	12.11
290	1479.92	1497.07	12.18
300	1479.92	1501.22	12.33
310	1474.24	1492.93	12.36
320	1474.24	1492.93	12.5
330	1468.61	1492.93	12.53
340	1468.61	1484.74	12.67
350	1471.42	1484.74	12.75
360	1471.42	1488.82	12.83
370	1474.24	1488.82	12.88
380	1474.24	1484.74	12.89
420	1474.24	1488.82	10.69
430	1463.02	1484.74	10.97
440	1468.61	1492.93	11.08
450	1463.02	1476.63	11.26
460	1474.24	1488.82	11.33
470	1474.24	1488.82	11.49
480	1468.61	1484.74	11.64
490	1474.24	1488.82	11.72
500	1465.81	1492.93	11.82
510	1471.42	1488.82	11.88
520	1463.02	1476.63	11.96
530	1471.42	1476.63	12.02
540	1474.24	1492.93	12.1
550	1474.24	1492.93	12.16
575	1473.87		12.3
585	1473.87	1482.38	13.85
595	1471.04	1470.21	14
605	1471.04	1470.21	14.03
615	1473.87	1470.21	14.05
625	1471.04	1474.24	14.13
635	1465.41	1470.21	14.2
645	1465.41	1474.24	14.22
655	1471.04	1466.19	14.26
665	1471.04	1462.2	14.33

Cruise No: 2010804

Station: 26

Sample Type: Trigger Weight Core

Data Type: Laboratory ABST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
2			
3	1.41	0.038	0.04
4	1.40	0.040	0.08
5	1.51	0.046	0.12
6	1.55	0.049	0.17
7	1.50	0.047	0.22
8	1.47	0.046	0.27
9	1.52	0.048	0.31
10	1.54	0.049	0.36
11	1.50	0.048	0.41
12	1.50	0.047	0.46
13	1.53	0.048	0.51
14	1.52	0.047	0.55
15	1.46	0.045	0.60
16	1.48	0.043	0.64
17	1.45	0.042	0.68
18	1.44	0.041	0.72
19	1.43	0.040	0.76
20	1.43	0.039	0.80
21	1.42	0.038	0.84
22	1.39	0.036	0.88
23	1.37	0.035	0.91
24	1.38	0.035	0.95
25	1.40	0.036	0.98
26	1.38	0.035	1.02
27	1.36	0.032	1.05
28	1.31	0.032	1.08
29	1.41	0.035	1.12
30	1.40	0.036	1.15
31	1.36	0.035	1.19
32	1.40	0.035	1.22
33	1.38	0.035	1.26
34	1.36	0.034	1.29
35	1.38	0.037	1.33
36	1.48	0.043	1.37
37	1.49	0.045	1.42
38	1.46	0.043	1.46
39	1.46	0.043	1.50
40	1.47	0.044	1.55
41	1.46	0.043	1.59
42	1.44	0.041	1.63
43	1.44	0.041	1.67
44	1.47	0.042	1.71
45	1.45	0.041	1.76
46	1.42	0.041	1.80
47	1.48	0.042	1.84
48	1.45	0.042	1.88
49	1.45	0.041	1.92
50	1.42	0.040	1.96
51	1.44	0.041	2.00
52	1.46	0.042	2.05
53	1.45	0.043	2.09
54	1.49	0.044	2.13
55	1.46	0.043	2.18
56	1.45	0.042	2.22
57	1.45	0.040	2.26
58	1.39	0.039	2.30
59	1.44	0.039	2.34
60	1.43	0.040	2.38
61	1.43	0.040	2.42
62	1.44	0.040	2.46
63	1.43	0.041	2.50
64	1.45	0.041	2.54
65	1.45	0.042	2.58
66	1.47	0.042	2.62
67	1.43	0.042	2.67
68	1.47	0.042	2.71
69	1.45	0.043	2.75
70	1.46	0.043	2.79
71	1.46	0.042	2.83
72	1.44	0.042	2.88
73	1.46	0.042	2.92
74	1.45	0.042	2.96
75	1.45	0.041	3.00
76	1.43	0.041	3.04
77	1.44	0.041	3.08
78	1.45	0.041	3.12
79	1.44	0.041	3.16
80	1.43	0.041	3.21
81	1.44	0.041	3.25
82	1.45	0.042	3.29
83	1.46	0.041	3.33
84	1.42	0.040	3.37
85	1.44	0.041	3.41
86	1.46	0.043	3.45
87	1.47	0.044	3.50
88	1.49	0.045	3.54
89	1.49	0.045	3.59
90	1.46	0.044	3.63
91	1.49	0.044	3.68
92	1.43	0.042	3.72
93	1.47	0.044	3.76
94	1.51	0.045	3.81
95	1.46	0.044	3.85
96	1.46	0.043	3.89
97	1.47	0.043	3.94
98	1.45	0.043	3.98
99	1.46	0.043	4.02
100	1.48	0.044	4.07
101	1.47	0.044	4.11
102	1.45	0.043	4.15
103	1.48	0.045	4.20
104	1.51	0.046	4.24
105	1.46	0.044	4.29
106	1.48	0.044	4.33
107	1.48	0.045	4.38
108	1.49	0.045	4.42
109	1.48	0.045	4.47
110	1.50	0.046	4.52
111	1.52	0.047	4.56
112	1.49	0.047	4.61
113	1.50	0.047	4.66
114	1.51	0.044	4.70
115	1.36	0.020	4.72

Cruise No: 2010804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
5	0.56
6	0.50
7	0.49
8	0.48
9	0.48
10	0.47
11	0.47
12	0.46
13	0.46
14	0.46
15	0.46
16	0.46
17	0.46
18	0.47
19	0.47
20	0.47
21	0.47
22	0.47
23	0.46
24	0.46
25	0.46
26	0.46
27	0.46
28	0.47
29	0.47
30	0.47
31	0.46
32	0.45
33	0.45
34	0.45
35	0.45
36	0.45
37	0.46
38	0.46
39	0.46
40	0.46
41	0.47
42	0.47
43	0.47
44	0.47
45	0.47
46	0.48
47	0.48
48	0.48
49	0.48
50	0.48
51	0.48
52	0.48
53	0.49
54	0.49
55	0.49
56	0.49
57	0.49
58	0.49
59	0.49
60	0.49
61	0.49
62	0.49
63	0.49
64	0.49
65	0.49
66	0.49
67	0.49
68	0.49
69	0.50
70	0.50
71	0.50
72	0.50
73	0.50
74	0.50
75	0.50
76	0.50
77	0.50
78	0.50
79	0.50
80	0.50
81	0.50
82	0.50
83	0.51
84	0.51
85	0.51
86	0.50
87	0.50
88	0.50
89	0.50
90	0.50
91	0.51
92	0.51
93	0.51
94	0.51
95	0.51
96	0.51
97	0.51
98	0.51
99	0.51
100	0.51
101	0.51
102	0.51
103	0.51
104	0.51
105	0.52
106	0.52
107	0.53
108	0.53
109	0.53
110	0.54
111	0.55
112	0.57
113	0.62

Cruise No: 2010804

Station: 46

Sample Type: Trigger Weight Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	7
4	11
5	22
6	20
7	20
8	18
9	18
10	17
11	19
12	18
13	19
14	17
15	16
16	17
17	15
18	15
19	15
20	14
21	14
22	14
23	14
24	13
25	14
26	17
27	15
28	16
29	16
30	16
31	16
32	17
33	17
34	17
35	17
36	17
37	16
38	18
39	18
40	19
41	18
42	17
43	18
44	19
45	18
46	20
47	19
48	19
49	19
50	20
51	18
52	19
53	19
54	18
55	19
56	19
57	17
58	18
59	17
60	18
61	25
62	29
63	18
64	17
65	18
66	20
67	18
68	15
69	18
70	18
71	18
72	18
73	18
74	18
75	17
76	18
77	18
78	19
79	18
80	18
81	18
82	17
83	19
84	20
85	20
86	21
87	18
88	19
89	19
90	18
91	18
92	18
93	18
94	17
95	16
96	18
97	18
98	18
99	18
100	18
101	18
102	17
103	17
104	17
105	17
106	15
107	15
108	15
109	15
110	16
111	28
112	17
113	17
114	16
115	8

Cruise No: 2010804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.4574	0.7765	66.4986	2.3178	1.9850	46.7218	87.6941
55	1.4598	0.7851	65.8893	2.3017	1.9316	46.2177	85.9348
105	1.4601	0.8637	58.2379	2.0681	1.3945	40.8448	69.0469

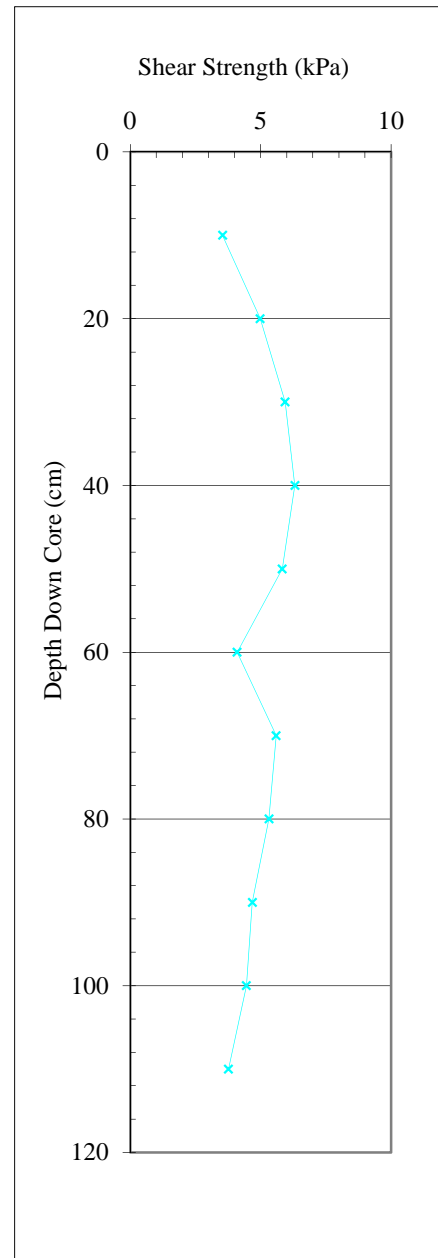
Cruise No: 2010804

Station: 36

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.54	1.26	2.82
20	4.98	2.22	2.25
30	5.94		
40	6.31		
50	5.83		
60	4.10		
70	5.60		
80	5.32		
90	4.68		
100	4.46	2.63	
110	3.77	1.88	



Cruise No: 2010804

Station: 26

Sample Type: Trigger Weigh Core

Data Type: Colour data

Depth Down Core (cm)	A value	B value	L value	Munsell
1	0.4	5.84	39.51	3.2 Y 3.80/0.90
2	0.32	5.14	40.72	3.2 Y 3.90/0.70
3	0.27	3.45	38.45	2.9 Y 3.70/0.50
4	0.04	5.05	36.32	4.1 Y 3.50/0.70
5	0.31	5.23	38.82	3.2 Y 3.80/0.80
6	0.36	1.92	46.10	1.1 Y 4.50/0.30
7	0.36	0.94	45.22	8.6 YR 4.40/0.20
8	0.07	3.43	40.39	3.7 Y 3.90/0.50
9	0.22	3.18	39.30	3.2 Y 3.80/0.50
10	0.1	3.38	39.95	3.6 Y 3.90/0.50
11	0.2	3.75	37.74	3.3 Y 3.70/0.50
12	0.21	3.48	38.53	3.2 Y 3.70/0.50
13	0.18	3.59	38.14	3.4 Y 3.70/0.50
14	0.16	3.78	37.98	3.8 Y 3.70/0.60
15	0.07	3.65	40.60	3.7 Y 4.00/0.50
16	0.05	4.34	37.07	4.1 Y 3.60/0.60
17	0.03	4.86	35.65	4.2 Y 3.50/0.70
18	-0.06	4.98	35.49	4.5 Y 3.50/0.70
19	0.08	4.87	35.47	4.0 Y 3.50/0.70
20	-0.15	4.75	35.81	4.7 Y 3.50/0.70
21	-0.12	4.64	36.05	4.5 Y 3.50/0.70
22	0.09	4.6	35.37	4.0 Y 3.40/0.70
23	0.04	4.38	36.81	4.1 Y 3.60/0.60
24	0.09	4.56	35.81	4.1 Y 3.50/0.70
25	0.04	4.34	37.04	3.8 Y 3.60/0.60
26	0.05	4.68	35.45	4.0 Y 3.50/0.70
27	0.04	4.37	36.99	4.2 Y 3.60/0.60
28	-0.04	4.9	34.38	4.4 Y 3.40/0.70
29	0.11	4.81	34.87	4.2 Y 3.40/0.70
30	-0.05	5.04	34.24	4.5 Y 3.30/0.80
31	0.06	5.03	34.4	4.4 Y 3.30/0.70
32	0.05	4.84	34.81	4.2 Y 3.40/0.70
33	0.12	3.12	42.14	3.3 Y 4.10/0.40
34	0.18	2.62	42.91	3.0 Y 4.20/0.40
35	-0.01	3.74	38.74	4.2 Y 3.70/0.60
36	0.02	4.46	36.68	4.2 Y 3.50/0.60
37	0.13	3.88	38.6	3.7 Y 3.70/0.60
38	0.04	4.32	36.57	4.4 Y 3.50/0.70
39	0.04	4.17	38.56	3.9 Y 3.80/0.60
40	-0.08	3.49	38.87	4.2 Y 3.80/0.50
41	0.05	4.02	39.34	3.9 Y 3.80/0.60
42	-0.02	4.18	36.4	4.2 Y 3.50/0.60
43	-0.12	4.94	36.31	4.7 Y 3.50/0.70
44	-0.08	4.5	36.52	4.5 Y 3.50/0.70
45	-0.01	5.08	35.18	4.3 Y 3.40/0.70
46	-0.04	4.6	36.01	4.5 Y 3.50/0.70
47	0.03	4.75	35.25	4.2 Y 3.40/0.70
48	0.02	4.68	35.43	4.2 Y 3.40/0.70
49	0.02	4.45	35.88	4.4 Y 3.50/0.70
50	0.01	4.18	36.11	4.4 Y 3.50/0.60
51	-0.03	3.97	36.82	4.5 Y 3.60/0.60
52	0.03	4.42	37.66	4.1 Y 3.70/0.60
53	0.11	3.69	38.69	3.8 Y 3.70/0.50
54	0.07	5.04	34.39	4.2 Y 3.40/0.70
55	0.09	3.99	37.92	4.0 Y 3.70/0.60
56	-0.02	5.05	31.44	4.6 Y 3.10/0.80
57	0.12	3.78	37.87	3.9 Y 3.70/0.60
58	-0.1	5.35	33.36	4.7 Y 3.20/0.80
59	-0.1	5.64	32.74	4.6 Y 3.20/0.90
60	-0.04	4.35	34.37	4.5 Y 3.30/0.70
61	-0.18	4.73	34.85	4.8 Y 3.40/0.70
62	-0.22	5.4	31.82	5.0 Y 3.10/0.80
63	-0.24	4.83	33.35	5.1 Y 3.20/0.70
64	-0.08	5.23	32.69	4.8 Y 3.20/0.80
65	-0.2	4.92	32.56	5.1 Y 3.20/0.70
66	-0.32	3.38	33.09	6.1 Y 3.20/0.50
67	0.16	5.17	34.72	4.0 Y 3.40/0.80
68	-0.02	4.95	34.84	4.3 Y 3.40/0.70
69	0.04	5.2	34.04	4.4 Y 3.30/0.80
70	-0.03	4.84	33.55	4.5 Y 3.30/0.70
71	0.07	4.68	35.29	4.1 Y 3.40/0.70
72	-0.04	5.13	33.54	4.5 Y 3.30/0.80
73	-0.08	4.67	34.07	4.5 Y 3.30/0.70
74	0.02	5.15	34.58	4.4 Y 3.40/0.80
75	-0.03	5.21	34.22	4.4 Y 3.30/0.80
76	-0.1	5.07	34.68	4.7 Y 3.40/0.80
77	-0.08	4.92	34.96	4.6 Y 3.40/0.70
78	-0.17	4.36	33.44	4.9 Y 3.30/0.70
79	-0.12	5.26	33.93	4.7 Y 3.30/0.80
80	-0.19	5.48	32.95	5.0 Y 3.20/0.80
81	-0.22	4.63	35.83	4.8 Y 3.50/0.70
82	0.07	4.94	35.37	4.0 Y 3.40/0.70
83	-0.01	4.7	34.26	4.5 Y 3.30/0.70
84	-0.1	4.29	34.17	4.6 Y 3.30/0.60
85	0.11	4.85	36.07	3.9 Y 3.50/0.70
86	0.08	4.75	35.87	4.0 Y 3.50/0.70
87	0.04	4.8	35.63	4.3 Y 3.50/0.70
88	-0.07	4.88	34.74	4.6 Y 3.40/0.70
89	0.09	4.89	35.42	4.0 Y 3.40/0.70
90	0	4.51	36.9	4.2 Y 3.60/0.60
91	-0.12	4.28	33.55	4.7 Y 3.30/0.60
92	0.11	4.75	37.14	4.0 Y 3.60/0.70
93	0.05	4.73	35.28	4.1 Y 3.40/0.70
94	-0.03	5.41	33.98	4.4 Y 3.30/0.80
95	0.01	5.42	34.62	4.3 Y 3.40/0.80
96	-0.08	5.07	33.32	4.6 Y 3.20/0.80
97	-0.03	5.5	34.45	4.6 Y 3.40/0.80
98	0.04	4.65	35.89	4.1 Y 3.50/0.70
99	-0.12	4.53	35.96	4.6 Y 3.50/0.70
100	-0.08	4.91	35.46	4.5 Y 3.40/0.70
101	0.1	5.36	35.86	4.1 Y 3.50/0.80
102	0	5.41	34.69	4.4 Y 3.40/0.80
103	-0.01	4.95	36.15	4.4 Y 3.50/0.70
104	0.07	3.87	40.93	3.8 Y 4.00/0.50
105	0.04	4.56	38.02	4.0 Y 3.70/0.70
106	-0.02	4.62	35.46	4.5 Y 3.40/0.70
107	-0.01	4.57	35.52	4.3 Y 3.50/0.70
108	-0.01	3.1	39.18	4.0 Y 3.80/0.40
109	-0.08	5.11	34.29	4.6 Y 3.30/0.80
110	0.07	4.27	38.61	4.0 Y 3.80/0.60
111	0.05	4.68	39.33	4.0 Y 3.80/0.70
112	0.04	5.12	36.94	4.4 Y 3.60/0.80
113	0.04	5.67	35.69	4.2 Y 3.50/0.80
114	0.58	7.03	35.9	3.2 Y 3.50/1.00
115	0.35	1.05	34.49	9.8 YR 3.40/0.20

Cruise No: 2010894
Station: 26
Sample Type: Trigger Weight Core
Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1538.57
4	1532.08
5	1523.62
6	1523.67
7	1517.08
8	1533.33
9	1528.57
10	1511.80
11	1509.61
12	1510.12
13	1507.97
14	1510.41
15	1511.54
16	1509.60
17	1510.58
18	1511.36
19	1511.59
20	1514.60
21	1516.34
22	1521.01
23	1516.49
24	1516.91
25	1519.349
26	1518.478
27	1518.841
28	1519.349
29	1516.667
30	1514.029
31	1514.337
32	1512.143
33	1515
34	1514.082
35	1517.5
36	1513.369
37	1514.49
38	1511.47
39	1510.469
40	1510.669
41	1504.693
42	1500.901
43	1492.473
44	1496.043
45	1496.762
46	1485.205
47	1483.837
48	1473.592
49	1506.859
50	1502.334
51	1503.052
52	1487.189
53	1479.078
54	1469.136
55	1469.258
56	1471.276
57	1473.31
58	1476.923
59	1495.985
60	1483.544
61	1473.968
62	1474.686
63	1478.777
64	1477.917
65	1476.344
66	1473.214
67	1475.357
68	1480.143
69	1489.892
70	1484.946
71	1482.857
72	1481.139
73	1478.724
74	1479.292
75	1487.389
76	1482.686
77	1485.159
78	1496.441
79	1490.231
80	1476.76
81	1475.618
82	1472.92
83	1479.857
84	1475.089
85	1475.223
86	1478.712
87	1476.565
88	1480.072
89	1482.821
90	1481.227
91	1481.589
92	1479.279
93	1482.672
94	1484.477
95	1490.942
96	1487.884
97	1485.199
98	1489.13
99	1485.091
100	1487.477
101	1482.311
102	1488.608
103	1496.203
104	1498.739
105	1489.126
106	1489.52
107	1497.153
108	1497.872
109	1497.163
110	1500.353
111	1497.887
112	1495.606
113	1498.783
114	1490.121
115	1492.362

Cruise No: 2010804

Station: 36

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1474.24	1488.82	11.76
20	1474.24	1488.82	11.87
30	1474.24	1488.82	11.92
40	1468.61	1488.82	12.01
50	1468.61	1488.82	12.03
60	1471.42	1488.82	12.15
70	1471.42	1488.82	12.13
80	1479.92	1488.82	12.28
90	1471.42	1476.63	12.36
100	1468.61	1488.82	12.45
110	1468.61	1492.93	12.47

Cruise No: 2010804

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.3482	0.095	0.10
4	1.3632	0.034	0.13
5	1.4060	0.036	0.17
6	1.3874	0.036	0.20
7	1.3756	0.036	0.24
8	1.4138	0.036	0.27
9	1.3608	0.034	0.31
10	1.3545	0.032	0.34
11	1.3342	0.031	0.37
12	1.3553	0.033	0.40
13	1.4063	0.036	0.44
14	1.3945	0.036	0.48
15	1.3736	0.034	0.51
16	1.3539	0.033	0.54
17	1.3553	0.033	0.58
18	1.3668	0.033	0.61
19	1.3474	0.033	0.64
20	1.3671	0.032	0.67
21	1.3372	0.031	0.70
22	1.3201	0.031	0.74
23	1.3630	0.032	0.77
24	1.3599	0.033	0.80
25	1.3663	0.035	0.84
26	1.4108	0.036	0.87
27	1.3660	0.035	0.91
28	1.3715	0.034	0.94
29	1.3866	0.035	0.98
30	1.3765	0.035	1.01
31	1.3720	0.034	1.04
32	1.3628	0.034	1.08
33	1.3671	0.034	1.11
34	1.3920	0.035	1.15
35	1.3911	0.037	1.18
36	1.4315	0.039	1.22
37	1.4444	0.020	1.24

Cruise No: 2010804

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	0.53
5	0.46
6	0.44
7	0.43
8	0.43
9	0.43
10	0.43
11	0.43
12	0.44
13	0.44
14	0.44
15	0.43
16	0.43
17	0.43
18	0.44
19	0.44
20	0.43
21	0.44
22	0.44
23	0.44
24	0.44
25	0.45
26	0.45
27	0.45
28	0.44
29	0.45
30	0.45
31	0.45
32	0.45
33	0.45
34	0.47
35	0.50
36	0.57

Cruise No: 2010804

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	37
3	8
4	10
5	13
6	9
7	8
8	8
9	9
10	9
11	12
12	11
13	12
14	11
15	11
16	11
17	12
18	13
19	13
20	14
21	14
22	15
23	17
24	16
25	17
26	17
27	17
28	17
29	17
30	17
31	17
32	18
33	17
34	17
35	17
36	17
37	17

Cruise No: 2010804

Station: 44

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.3736	0.5649	78.9811	2.6875	3.7576	58.8774	143.1753

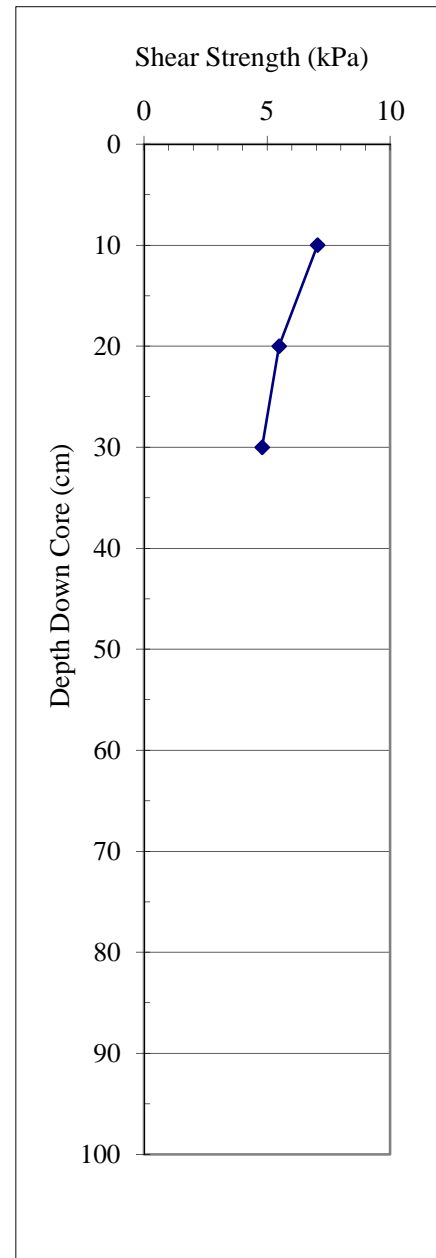
Cruise No: 2010804

Station: 44

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	7.05	3.36	2.10
20	5.49	1.10	5.00
30	4.80	2.40	2.00



Cruise No: 2010804

Station: 44

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	5.21	5.19	12.59	4.9 YR 1.20/1.00
2	0.6	2.37	42.33	0.3 Y 4.10/0.40
3	0.94	3.54	37.09	0.4 Y 3.60/0.50
4	1.65	6.34	38.83	0.3 Y 3.80/1.00
5	2.28	9.52	30	1.2 Y 2.90/1.60
6	1.67	7.66	27.36	1.7 Y 2.60/1.30
7	1.71	7.66	30.17	1.5 Y 2.90/1.20
8	1.67	7.56	35.19	1.3 Y 3.40/1.20
9	1.58	9.79	36.03	2.0 Y 3.50/1.50
10	2.1	9.91	32.29	1.5 Y 3.20/1.50
11	1.49	6.59	29.76	1.3 Y 3.00/1.00
12	1.9	10.22	31.66	2.0 Y 3.10/1.60
13	1.69	10.67	32.29	2.3 Y 3.10/1.70
14	0.99	9.9	34.52	3.0 Y 3.40/1.50
15	1.54	10.86	31.25	2.6 Y 3.00/1.70
16	2.05	9.11	24.51	1.6 Y 2.40/1.50
17	2.06	11	27.1	2.1 Y 2.60/1.80
18	2.29	12.19	32.8	2.0 Y 3.20/2.00
19	2.16	11.33	33.21	1.9 Y 3.20/1.80
20	1.17	8.19	39.12	2.2 Y 3.80/1.20
21	1.67	7.74	39.46	1.0 Y 3.80/1.10
22	0.54	1.84	39.56	9.6 YR 3.80/0.30
23	1.47	7.14	40.68	1.1 Y 3.90/1.10
24	0.32	6.12	36.65	3.5 Y 3.60/0.90
25	0.27	5.85	35.2	3.8 Y 3.40/0.90
26	0.24	4.77	38.43	3.4 Y 3.70/0.70
27	0.17	4.66	37.54	3.6 Y 3.60/0.70
28	0.1	4.96	38.12	4.0 Y 3.70/0.70
29	0.15	4.53	38.53	3.7 Y 3.70/0.70
30	0.01	4.34	40.68	4.1 Y 4.00/0.60
31	-0.1	5.19	38.4	4.4 Y 3.70/0.70
32	-0.22	5.87	36.62	4.9 Y 3.60/0.90
33	-0.12	5.77	36.58	4.7 Y 3.60/0.80
34	-0.21	5.25	37.4	4.9 Y 3.60/0.80
35	-0.1	4.62	39.72	4.5 Y 3.90/0.70
36	-0.12	4.67	40.12	4.6 Y 3.90/0.70
37	0.05	3.29	42.13	3.8 Y 4.10/0.50

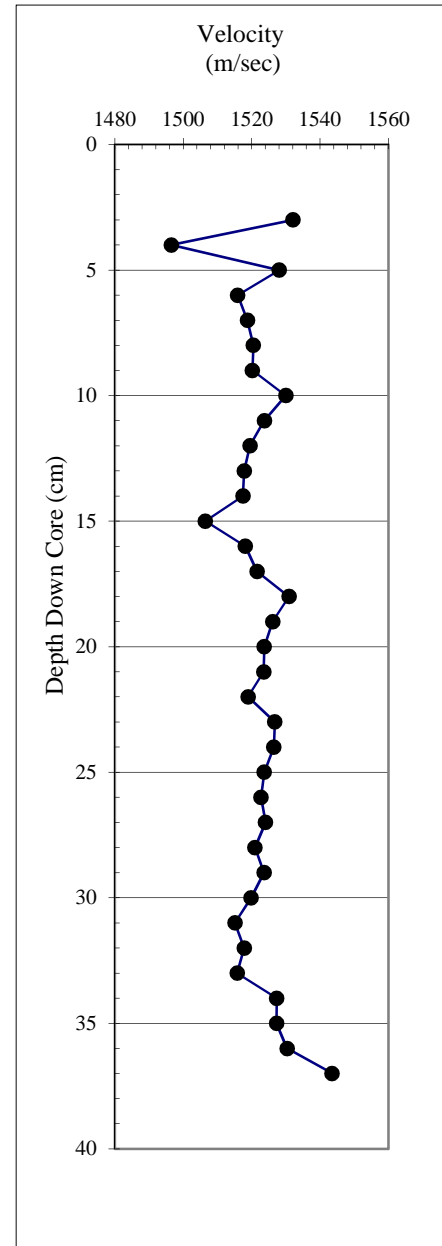
Cruise No: 2010804

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1532.114
4	1496.471
5	1528.077
6	1515.926
7	1518.772
8	1520.499
9	1520.213
10	1530.018
11	1523.726
12	1519.512
13	1517.851
14	1517.444
15	1506.485
16	1518.151
17	1521.575
18	1530.915
19	1526.17
20	1523.693
21	1523.56
22	1518.957
23	1526.795
24	1526.502
25	1523.675
26	1522.751
27	1524.077
28	1520.979
29	1523.643
30	1519.861
31	1515.13
32	1517.832
33	1515.789
34	1527.337
35	1527.305
36	1530.357
37	1543.525



Cruise No: 2010804

Station: 44

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1463.57	1467.98	13.56
20	1477.64	1467.98	13.63
30	1460.79	1464.01	13.18

Cruise No: 2010804

Station: 55

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.3824	0.105	0.11
4	1.4416	0.040	0.15
5	1.4816	0.044	0.19
6	1.4722	0.044	0.23
7	1.4471	0.042	0.28
8	1.4425	0.041	0.32
9	1.4481	0.041	0.36
10	1.4440	0.041	0.40
11	1.4457	0.041	0.44
12	1.4433	0.041	0.48
13	1.4431	0.041	0.52
14	1.4396	0.040	0.56
15	1.4147	0.039	0.60
16	1.4197	0.038	0.64
17	1.3968	0.038	0.68
18	1.4274	0.039	0.72
19	1.4366	0.040	0.76
20	1.4141	0.038	0.79
21	1.3717	0.036	0.83
22	1.3999	0.036	0.87
23	1.3855	0.036	0.90
24	1.4121	0.038	0.94
25	1.4311	0.040	0.98
26	1.4418	0.041	1.02
27	1.4459	0.040	1.06
28	1.4087	0.039	1.10
29	1.4415	0.040	1.14
30	1.4205	0.040	1.18
31	1.4245	0.040	1.22
32	1.4656	0.042	1.26
33	1.4551	0.042	1.30
34	1.4234	0.039	1.34
35	1.3746	0.036	1.38
36	1.3852	0.037	1.42
37	1.4524	0.041	1.46
38	1.4909	0.044	1.50
39	1.4530	0.041	1.54
40	1.3730	0.019	1.56

Cruise No: 2010804

Station: 55

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
3	0.69
4	0.54
5	0.48
6	0.46
7	0.45
8	0.44
9	0.45
10	0.44
11	0.45
12	0.46
13	0.47
14	0.47
15	0.47
16	0.47
17	0.47
18	0.46
19	0.46
20	0.46
21	0.46
22	0.46
23	0.45
24	0.45
25	0.44
26	0.44
27	0.45
28	0.45
29	0.45
30	0.45
31	0.45
32	0.45
33	0.46
34	0.47
35	0.48
36	0.50
37	0.56
38	0.69

Cruise No: 2010804

Station: 55

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	4
4	6
5	9
6	9
7	10
8	10
9	10
10	10
11	11
12	11
13	12
14	8
15	10
16	10
17	11
18	13
19	14
20	13
21	12
22	13
23	14
24	15
25	15
26	15
27	15
28	17
29	17
30	14
31	17
32	17
33	17
34	17
35	17
36	17
37	17
38	17
39	19

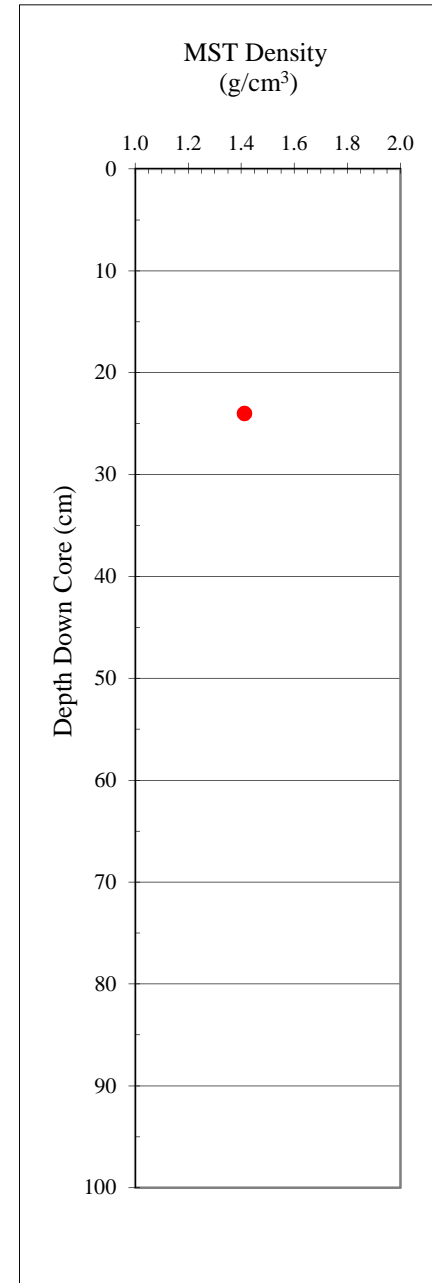
Cruise No: 2010804

Station: 55

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
24	1.4121	0.6620	73.2508	2.4750	2.7384	53.1174	113.2989



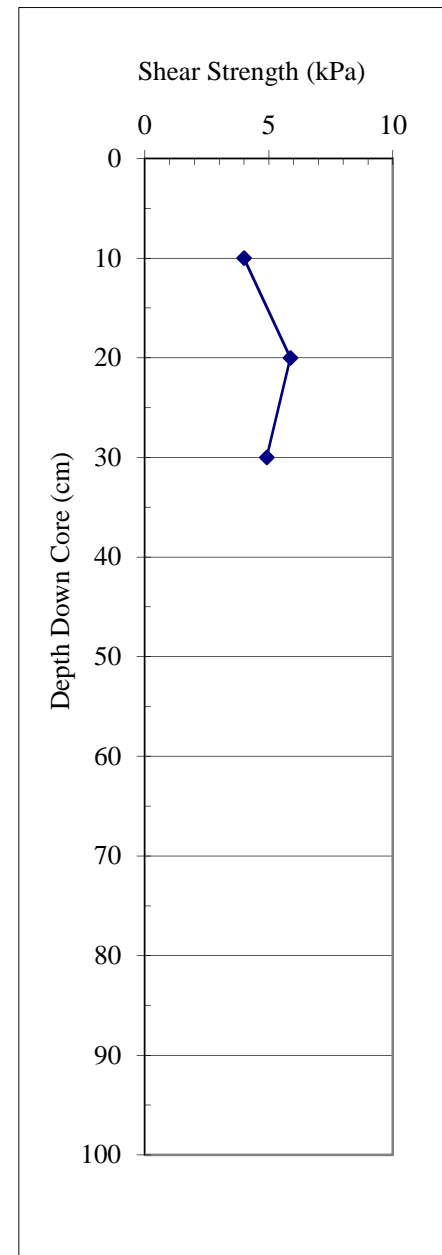
Cruise No: 2010804

Station: 55

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	4.00	3.20	1.25
20	5.87	2.33	2.52
30	4.91	3.54	1.39



Cruise No: 2010804

Station: 55

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
1	1.49	5.13	22.73	0.9 Y 2.20/0.90
2	1.05	2.37	42.32	8.1 YR 4.10/0.40
3	2.5	11.05	34.1	1.3 Y 3.30/1.70
4	2.75	11.54	34.47	1.1 Y 3.40/1.80
5	2.03	7.78	38.91	0.5 Y 3.80/1.20
6	2	7.36	41.42	10.0 YR 4.00/1.10
7	2.42	7.87	40.41	9.7 YR 3.90/1.20
8	2.85	9.45	37.12	10.0 YR 3.60/1.50
9	2.84	9	36.93	9.8 YR 3.60/1.40
10	2.62	8.04	38.31	9.6 YR 3.70/1.30
11	2.19	5.63	43.07	8.8 YR 4.20/0.90
12	3.14	8.15	37.42	9.0 YR 3.70/1.30
13	2.77	6.6	41.46	8.4 YR 4.00/1.10
14	2.79	6.87	38.5	8.8 YR 3.70/1.10
15	2.32	6.47	37.89	9.2 YR 3.70/1.10
16	2.72	7.66	35.84	9.5 YR 3.60/1.30
17	2.26	6.43	36.17	9.4 YR 3.60/1.10
18	2.11	6.93	32.94	0.2 Y 3.20/1.10
19	1.95	7.42	33.6	0.9 Y 3.20/1.20
20	1.54	6.9	33.09	1.3 Y 3.20/1.10
21	1.92	8.3	40.19	0.8 Y 3.90/1.30
22	0.51	5.03	41.52	2.6 Y 4.00/0.70
23	2.21	9.81	37.69	1.1 Y 3.70/1.50
24	0.64	6.9	40.94	2.8 Y 4.00/1.00
25	0.32	5.75	38.04	3.5 Y 3.70/0.90
26	0.36	5.03	39.82	3.2 Y 3.90/0.70
27	0.4	5.69	42.97	3.1 Y 4.20/0.80
28	0.64	6.94	39.59	2.9 Y 3.80/1.00
29	2.5	9.82	37.71	0.6 Y 3.70/1.50
30	0.55	5.4	44.32	2.5 Y 4.30/0.80
31	1.07	5.32	46.59	1.0 Y 4.50/0.80
32	1.15	6.13	45.68	1.3 Y 4.40/0.90
33	0.97	7.24	42.62	2.1 Y 4.10/1.10
34	0.6	6.01	43.66	2.5 Y 4.20/0.90
35	0.56	8.63	38.14	3.4 Y 3.70/1.30
36	0.34	6.53	39.74	3.5 Y 3.80/0.90
37	0.64	7.85	39.69	3.0 Y 3.90/1.10
38	0.82	8.33	39.59	2.8 Y 3.80/1.20

Cruise No: 2010804

Station: 55

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1562.193
4	1544.09
5	1545.387
6	1556.985
7	1562.409
8	1568.382
9	1554.204
10	1556.794
11	1552.801
12	1556.114
13	1558.14
14	1557.686
15	1556.837
16	1557.166
17	1554.86
18	1554.605
19	1554.754
20	1553.595
21	1552.365
22	1550.654
23	1547.954
24	1551.645
25	1552.554
26	1554.786
27	1555.849
28	1553.366
29	1554.201
30	1552.459
31	1550
32	1550
33	1552.961
34	1555.738
35	1556.381
36	1556.423
37	1552.961
38	1553.234
39	1559.796
40	1544.984

Cruise No: 2010804

Station: 55

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
20	1460.79	1471.98	11.98
30	1469.17	1464.01	12.05

Year	Value
2010	100
2011	100
2012	100
2013	100
2014	100
2015	100
2016	100
2017	100
2018	100
2019	100
2020	100
2021	100
2022	100
2023	100
2024	100
2025	100
2026	100
2027	100
2028	100
2029	100
2030	100
2031	100
2032	100
2033	100
2034	100
2035	100
2036	100
2037	100
2038	100
2039	100
2040	100
2041	100
2042	100
2043	100
2044	100
2045	100
2046	100
2047	100
2048	100
2049	100
2050	100
2051	100
2052	100
2053	100
2054	100
2055	100
2056	100
2057	100
2058	100
2059	100
2060	100
2061	100
2062	100
2063	100
2064	100
2065	100
2066	100
2067	100
2068	100
2069	100
2070	100
2071	100
2072	100
2073	100
2074	100
2075	100
2076	100
2077	100
2078	100
2079	100
2080	100
2081	100
2082	100
2083	100
2084	100
2085	100
2086	100
2087	100
2088	100
2089	100
2090	100
2091	100
2092	100
2093	100
2094	100
2095	100
2096	100
2097	100
2098	100
2099	100

Cruise No: 2010804

Station: 56

Sample Type: Piston Core

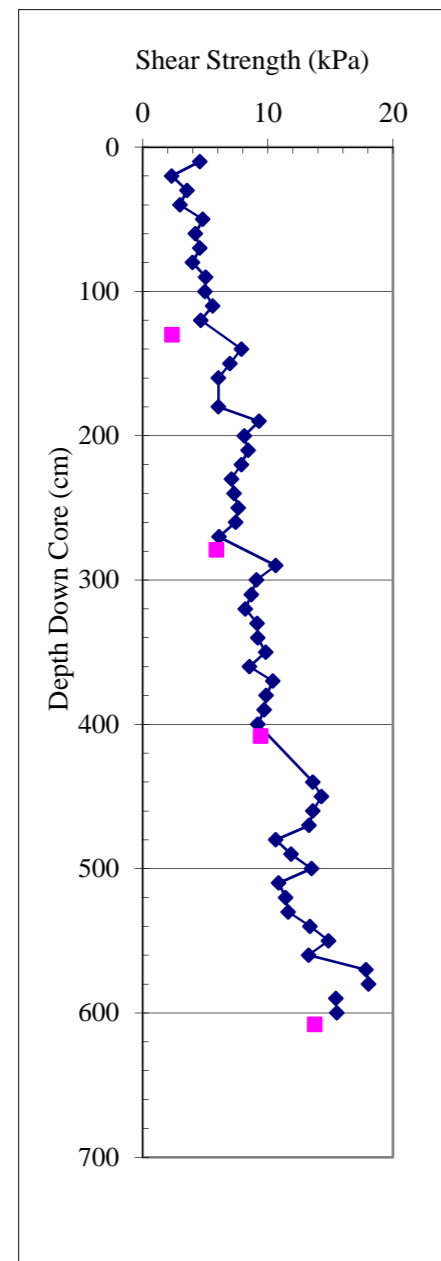
Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.3473	0.5986	73.1190	2.2269	2.7201	55.5715	125.0806
65	1.4540	0.7316	70.5449	2.4838	2.3950	49.6828	98.7392
115	1.4858	0.8270	64.3375	2.3190	1.8041	44.3395	79.6605
130	1.6979	1.0141	66.7785	3.0524	2.0101	40.2746	67.4330
145	1.6370	0.9819	63.9711	2.7254	1.7756	40.0163	66.7119
205	1.6404	1.0414	58.5032	2.5095	1.4098	36.5191	57.5277
265	1.5259	0.8807	63.0140	2.3810	1.7037	42.2869	73.2710
279	1.6878	1.0253	64.7038	2.9048	1.8332	39.2552	64.6231
304	1.6256	0.9570	65.2907	2.7573	1.8811	41.1278	69.8593
345	1.5940	0.9470	63.1772	2.5719	1.7157	40.5862	68.3110
395	1.6205	0.9719	63.3327	2.6507	1.7272	40.0212	66.7257
408	1.7297	1.0942	62.0586	2.8839	1.6356	36.7401	58.0780
445	1.6095	0.9714	62.3153	2.5777	1.6536	39.6461	65.6894
505	1.6490	1.0004	63.3376	2.7288	1.7276	39.3309	64.8286
575	1.7694	1.1891	56.6724	2.7445	1.3080	32.7972	48.8034
595	1.6267	0.9881	62.3639	2.6254	1.6570	39.2579	64.6304
605	1.5803	0.9772	58.8899	2.3771	1.4325	38.1600	61.7076
608	1.8084	1.2353	55.9686	2.8055	1.2711	31.6917	46.3950

Cruise No: 2010804
 Station: 56
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

Station: 2010804
 Sample Type: 56
 Data Type: Shipboard Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	4.57	2.28	2.00
20	2.33	1.66	1.40
30	3.54		
40	2.99		
50	4.80		
60	4.21		
70	4.57		
80	3.99		
90	5.03		
100	4.98		
110	5.60	2.17	2.58
120	4.65	3.32	1.40
140	7.88		
150	6.98		
160	6.05	3.54	1.71
180	6.05		
190	9.30		
200	8.11		
210	8.42		
220	7.88		
230	7.09		
240	7.31		
250	7.64		
260	7.43	2.17	3.42
270	6.09	1.33	4.58
290	10.62	5.48	1.94
300	9.08	2.88	3.15
310	8.68		
320	8.20		
330	9.14	5.03	1.82
340	9.19	3.88	2.37
350	9.82		
360	8.53		
370	10.40	3.88	2.68
380	9.86	2.88	3.42
390	9.71		
400	9.19		
440	13.59	0.46	29.75
450	14.29	2.66	5.38
460	13.59		
470	13.29		
480	10.62		
490	11.85		
500	13.48	3.20	4.21
510	10.85	1.22	8.91
520	11.42		
530	11.63		
540	13.37		
550	14.84		
560	13.25		
570	17.83		
580	18.05	0.46	39.50
590	15.42	0.91	16.88
600	15.51	0.78	20.00



<u>Depth</u> <u>Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>
130	2.4
279	5.9
408	9.4
608	13.7

Year	Value
2000	1.0
2001	1.0
2002	1.0
2003	1.0
2004	1.0
2005	1.0
2006	1.0
2007	1.0
2008	1.0
2009	1.0
2010	1.0
2011	1.0
2012	1.0
2013	1.0
2014	1.0
2015	1.0
2016	1.0
2017	1.0
2018	1.0
2019	1.0
2020	1.0
2021	1.0
2022	1.0
2023	1.0
2024	1.0
2025	1.0
2026	1.0
2027	1.0
2028	1.0
2029	1.0
2030	1.0
2031	1.0
2032	1.0
2033	1.0
2034	1.0
2035	1.0
2036	1.0
2037	1.0
2038	1.0
2039	1.0
2040	1.0
2041	1.0
2042	1.0
2043	1.0
2044	1.0
2045	1.0
2046	1.0
2047	1.0
2048	1.0
2049	1.0
2050	1.0
2051	1.0
2052	1.0
2053	1.0
2054	1.0
2055	1.0
2056	1.0
2057	1.0
2058	1.0
2059	1.0
2060	1.0
2061	1.0
2062	1.0
2063	1.0
2064	1.0
2065	1.0
2066	1.0
2067	1.0
2068	1.0
2069	1.0
2070	1.0
2071	1.0
2072	1.0
2073	1.0
2074	1.0
2075	1.0
2076	1.0
2077	1.0
2078	1.0
2079	1.0
2080	1.0
2081	1.0
2082	1.0
2083	1.0
2084	1.0
2085	1.0
2086	1.0
2087	1.0
2088	1.0
2089	1.0
2090	1.0
2091	1.0
2092	1.0
2093	1.0
2094	1.0
2095	1.0
2096	1.0
2097	1.0
2098	1.0
2099	1.0
2100	1.0

Cruise No: 2010804

Station: 56

Sample Type: Piston Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Temperature (C)
10	1455.21	1452.08	13.02
20	1455.21	1456.02	13.06
30	1455.21	1459.97	13.1
40	1463.55	1459.97	13.17
50	1460.76	1463.95	13.2
60	1460.76	1463.95	13.27
70	1466.35	1467.96	13.51
80	1466.35	1480.09	13.6
90	1466.35	1480.09	13.71
100	1469.16	1480.09	13.75
110	1471.98	1480.09	13.8
120	1474.81	1480.09	13.79
140	1477.66	1496.59	14.35
160	1486.25	1492.43	14.41
170	1494.95	1492.43	14.46
180	1503.75	1543.93	14.44
190	1530.78	1535.1	14.54
200	1558.8	1513.47	14.61
210	1536.92	1548.38	14.64
220	1489.14	1492.43	14.67
230	1483.38	1484.18	14.69
240	1483.38	1484.18	14.76
250	1483.38	1484.18	14.88
260	1483.38	1484.18	14.89
270	1483.38	1488.3	11.85
290	1483.38	1488.3	11.9
300	1489.14	1488.3	12.08
310	1483.38	1488.3	12.12
320	1483.38	1492.43	12.25
330	1483.38	1492.43	12.32
340	1483.38	1504.98	12.44
350	1486.25	1488.3	12.55
360	1483.38	1492.43	12.62
370	1486.25	1492.43	12.68
380	1483.38	1504.98	12.77
390	1486.25	1500.78	12.85
400	1486.25	1496.57	13.24
440	1483.35	1509.18	13.31
450	1506.61	1509.18	13.4
460	1491.99	1496.57	13.42
470	1486.22	1496.57	13.64
490	1489.1	1509.18	13.75
500	1483.35	1496.57	13.78
510	1486.22	1504.95	13.81
520	1489.1	1504.95	13.87
530	1486.22	1410.19	13.92
540	1486.22	1488.28	13.99
550	1486.22	1045.41	14
560	1486.22	1232.36	13.91
570	1624.46	1548.3	13.8
590	1506.61	1543.85	17.55
600	1533.68	1522	12.38

Cruise No: 202084
 Station: 52
 Sample Type: Tissue Weight Core
 Data Type: Laboratory MST Density

Depth (cm)	MST Bulk		Zoochlorella	
	Density (g/cm ³)	Pressure (kPa)	Density (g/cm ³)	Pressure (kPa)
3	1.42	0.117	0.12	
4	1.37	0.036	0.15	
5	1.39	0.034	0.19	
6	1.33	0.033	0.22	
7	1.38	0.035	0.25	
8	1.42	0.038	0.29	
9	1.42	0.039	0.33	
10	1.43	0.039	0.37	
11	1.43	0.039	0.41	
12	1.41	0.039	0.45	
13	1.44	0.040	0.49	
14	1.46	0.040	0.53	
15	1.38	0.037	0.57	
16	1.39	0.036	0.60	
17	1.41	0.038	0.64	
18	1.43	0.039	0.68	
19	1.40	0.038	0.72	
20	1.43	0.039	0.76	
21	1.45	0.040	0.80	
22	1.40	0.038	0.83	
23	1.39	0.035	0.87	
24	1.36	0.035	0.90	
25	1.42	0.038	0.94	
26	1.44	0.040	0.98	
27	1.40	0.038	1.02	
28	1.38	0.037	1.06	
29	1.43	0.037	1.09	
30	1.36	0.036	1.13	
31	1.40	0.035	1.17	
32	1.37	0.035	1.20	
33	1.39	0.035	1.24	
34	1.40	0.036	1.27	
35	1.38	0.035	1.31	
36	1.35	0.034	1.34	
37	1.39	0.034	1.38	
38	1.35	0.035	1.41	
39	1.43	0.035	1.45	
40	1.33	0.035	1.48	
41	1.41	0.036	1.52	
42	1.42	0.039	1.56	
43	1.45	0.042	1.60	
44	1.47	0.043	1.64	
45	1.45	0.041	1.68	
46	1.39	0.038	1.72	
47	1.43	0.038	1.76	
48	1.40	0.036	1.79	
49	1.35	0.035	1.83	
50	1.43	0.038	1.87	
51	1.41	0.038	1.90	
52	1.40	0.038	1.94	
53	1.41	0.037	1.98	
54	1.39	0.036	2.02	
55	1.38	0.035	2.05	
56	1.39	0.035	2.09	
57	1.38	0.035	2.12	
58	1.38	0.034	2.16	
59	1.35	0.034	2.19	
60	1.40	0.036	2.23	
61	1.41	0.038	2.26	
62	1.42	0.039	2.30	
63	1.45	0.040	2.34	
64	1.41	0.039	2.38	
65	1.42	0.039	2.42	
66	1.42	0.039	2.46	
67	1.42	0.039	2.50	
68	1.44	0.040	2.54	
69	1.43	0.040	2.58	
70	1.43	0.040	2.62	
71	1.45	0.041	2.66	
72	1.42	0.040	2.70	
73	1.44	0.040	2.74	
74	1.41	0.041	2.78	
75	1.49	0.042	2.82	
76	1.41	0.040	2.86	
77	1.42	0.039	2.90	
78	1.43	0.039	2.94	
79	1.43	0.040	2.98	
80	1.42	0.040	3.02	
81	1.45	0.040	3.06	
82	1.41	0.038	3.10	
83	1.39	0.037	3.14	
84	1.42	0.038	3.17	
85	1.41	0.040	3.21	
86	1.47	0.043	3.26	
87	1.50	0.045	3.30	
88	1.45	0.043	3.35	
89	1.47	0.044	3.39	
90	1.48	0.045	3.43	
91	1.51	0.046	3.48	
92	1.49	0.046	3.53	
93	1.50	0.046	3.57	
94	1.49	0.046	3.62	
95	1.48	0.044	3.66	
96	1.45	0.043	3.71	
97	1.48	0.044	3.75	
98	1.47	0.045	3.79	
99	1.52	0.046	3.84	
100	1.48	0.045	3.89	
101	1.47	0.043	3.93	
102	1.42	0.041	3.97	
103	1.45	0.043	4.01	
104	1.51	0.046	4.06	
105	1.49	0.045	4.10	
106	1.46	0.044	4.15	
107	1.49	0.046	4.19	
108	1.52	0.047	4.24	
109	1.48	0.046	4.29	
110	1.49	0.046	4.33	
111	1.51	0.048	4.38	
112	1.55	0.049	4.43	
113	1.47	0.047	4.48	
114	1.50	0.047	4.52	
115	1.53	0.054	4.55	

Cruise No: 201001
Station: 52
Sample Type: Water, Water Core
Data Type: Labware, MST Resistivity

Cruise No: 2
Station: 2
Sample Type: R
Data Type: Labware, MST Resistivity

Depth (cm)	MST Resistivity (Ohm-cm)
4	0.54
5	0.47
6	0.45
7	0.45
8	0.44
9	0.44
10	0.43
11	0.43
12	0.43
13	0.43
14	0.42
15	0.42
16	0.42
17	0.41
18	0.41
19	0.41
20	0.40
21	0.40
22	0.40
23	0.40
24	0.40
25	0.40
26	0.40
27	0.40
28	0.40
29	0.41
30	0.41
31	0.41
32	0.41
33	0.41
34	0.41
35	0.41
36	0.41
37	0.41
38	0.41
39	0.41
40	0.40
41	0.40
42	0.40
43	0.40
44	0.40
45	0.40
46	0.40
47	0.41
48	0.41
49	0.41
50	0.41
51	0.41
52	0.41
53	0.41
54	0.41
55	0.41
56	0.41
57	0.42
58	0.42
59	0.42
60	0.42
61	0.41
62	0.41
63	0.41
64	0.42
65	0.42
66	0.42
67	0.43
68	0.43
69	0.43
70	0.43
71	0.43
72	0.43
73	0.43
74	0.44
75	0.44
76	0.44
77	0.44
78	0.44
79	0.44
80	0.44
81	0.44
82	0.44
83	0.44
84	0.45
85	0.44
86	0.44
87	0.44
88	0.44
89	0.44
90	0.44
91	0.45
92	0.45
93	0.46
94	0.46
95	0.47
96	0.47
97	0.47
98	0.48
99	0.48
100	0.48
101	0.48
102	0.49
103	0.49
104	0.49
105	0.50
106	0.50
107	0.50
108	0.51
109	0.51
110	0.52
111	0.53
112	0.54
113	0.56
114	0.62

Cruise No: 202004

Station: 52

Sample Type: Tissue Weight Core

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	2
3	2
4	3
5	3
6	2
7	2
8	3
9	4
10	4
11	4
12	4
13	2
14	2
15	3
16	3
17	2
18	4
19	3
20	2
21	4
22	2
23	3
24	1
25	2
26	2
27	3
28	2
29	2
30	2
31	1
32	1
33	1
34	2
35	1
36	1
37	3
38	2
39	3
40	-5000
41	2
42	3
43	3
44	4
45	2
46	3
47	3
48	2
49	4
50	5
51	5
52	4
53	6
54	7
55	9
56	12
57	13
58	13
59	14
60	13
61	13
62	13
63	14
64	14
65	13
66	14
67	13
68	14
69	15
70	15
71	16
72	15
73	16
74	15
75	16
76	16
77	15
78	16
79	16
80	17
81	17
82	16
83	16
84	16
85	16
86	16
87	15
88	16
89	16
90	16
91	16
92	15
93	15
94	16
95	17
96	16
97	17
98	16
99	17
100	18
101	17
102	17
103	17
104	18
105	17
106	18
107	18
108	17
109	16
110	16
111	16
112	16
113	16
114	17
115	15
116	18

Cruise No: 2010804

Station: 56

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
25	1.4232	0.6499	75.5182	2.6545	3.0847	54.3370	118.9959
65	1.4240	0.6871	71.9636	2.4508	2.5668	51.7483	107.2466
105	1.4852	0.7773	69.1339	2.5182	2.2398	47.6661	91.0808

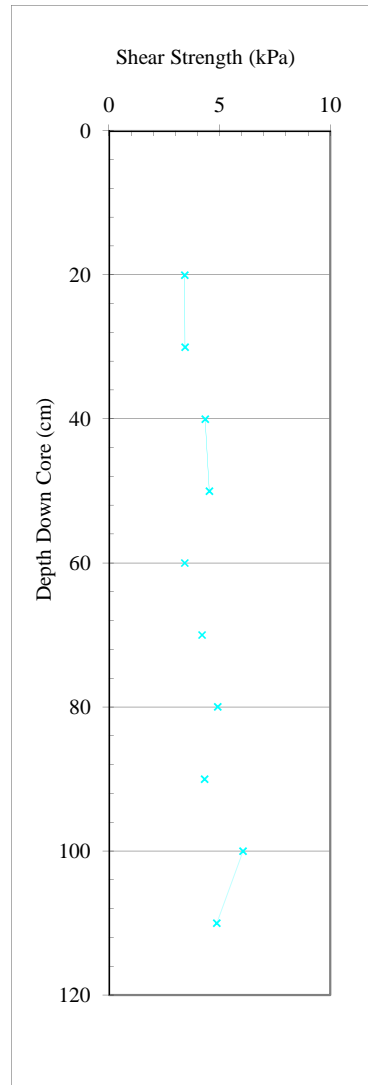
Cruise No: 2010804

Station: 56

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
20	3.43	0.91	3.75
30	3.43	0.78	4.43
40	4.34		
50	4.54		
60	3.43	3.20	1.07
70	4.21	1.55	2.71
80	4.91		
90	4.32		
100	6.05	3.54	1.71
110	4.87	1.55	3.14



Cruise No: 201008

Station: 56

Sample Type: Tissue Weight Core

Data Type: Colour data

Depth Down					
Core no.	A value	B value	C value	Moment	
1	1.49	1.58	5090	2.3 VR 4000.40	
2	1.95	4.8	45.55	9.0 VR 4.300.00	
3	2.49	8.24	40.60	9.8 VR 1.900.30	
4	2.7	10.2	36.61	0.5 Y 1400.60	
5	2.48	8.53	33.73	0.4 Y 3.300.40	
6	1.86	3.75	46.31	7.5 VR 4.500.70	
7	2.14	5.21	39.34	8.7 VR 3.800.80	
8	2.66	8.92	32.58	0.3 Y 3.200.40	
9	1.92	7.58	35.45	0.7 Y 3.500.20	
10	2.02	6.19	36.66	9.7 VR 5.600.00	
11	2.07	8.12	31.19	0.9 Y 3.100.30	
12	1.64	6.15	33.02	0.6 Y 3.200.60	
13	1.2	3.39	41.01	9.1 VR 4.000.50	
14	0.86	6.55	38.82	2.2 Y 3.800.00	
15	2.36	10.51	35.37	1.5 Y 4.800.70	
16	1.43	11.21	35.47	2.6 Y 3.500.70	
17	0.98	10.68	34.70	3.1 Y 3.400.60	
18	0.28	7.25	37.74	3.7 Y 3.700.00	
19	0.3	5.12	38.14	3.3 Y 3.700.80	
20	0.28	7.4	36.32	3.6 Y 3.500.10	
21	0.21	5.03	36.57	3.7 Y 3.600.70	
22	0.16	5.39	35.36	4.1 Y 3.400.80	
23	0.43	2.76	40.75	1.6 Y 4.000.40	
24	0.29	4.38	39.29	3.2 Y 3.800.60	
25	0.12	5.55	36.83	3.9 Y 3.800.80	
26	0.38	3.72	40.44	2.5 Y 3.900.50	
27	0.13	8.32	36.04	4.2 Y 3.500.20	
28	0.12	7.33	36.46	4.2 Y 3.500.10	
29	0.28	8.86	37.66	4.0 Y 3.700.30	
30	0.31	7.08	39.76	3.6 Y 3.900.00	
31	0.97	5.5	45.13	1.8 Y 4.300.90	
32	2.06	8.94	39.24	0.9 Y 3.800.30	
33	0.97	8.51	37.6	2.7 Y 3.700.20	
34	1.01	8.27	39.68	2.5 Y 3.900.20	
35	1.17	9.49	37.17	2.6 Y 3.800.40	
36	1.03	8.59	39.02	2.5 Y 3.800.30	
37	0.68	8.43	39.04	3.1 Y 3.800.20	
38	0.74	8.54	39.55	3.0 Y 3.800.30	
39	0.93	8.95	41.36	2.7 Y 4.000.30	
40	0.9	8.78	40.42	2.6 Y 3.900.30	
41	2.21	9.8	38.86	1.0 Y 3.800.50	
42	2.21	8.53	41.68	0.2 Y 4.100.30	
43	1.87	8.81	41.01	1.0 Y 4.000.30	
44	0.6	7.8	40.09	3.1 Y 3.900.20	
45	0.39	5.26	43.08	3.1 Y 4.200.80	
46	0.19	6.85	38.86	3.8 Y 3.800.00	
47	0.32	6.02	43.89	3.3 Y 4.200.90	
48	0.23	7.76	38.37	3.9 Y 3.700.10	
49	0.8	10.57	34.84	3.4 Y 4.400.60	
50	0.21	7.24	38.98	3.9 Y 3.800.10	
51	0.14	5.79	37.78	3.9 Y 3.700.80	
52	0.23	5.33	38.34	3.7 Y 3.700.80	
53	0.09	7.72	36.51	4.3 Y 3.600.10	
54	0	8.43	36.72	4.4 Y 3.600.20	
55	0.91	11.36	34.03	3.5 Y 3.300.70	
56	0.04	7.97	37.57	4.3 Y 3.700.20	
57	0.14	7.72	37.02	4.2 Y 3.600.10	
58	1.13	11.52	34.03	3.2 Y 3.300.80	
59	0.01	8.84	35.32	4.5 Y 3.400.30	
60	0.17	9.47	34.42	4.5 Y 3.400.40	
61	-0.02	6.88	37.9	4.3 Y 3.700.00	
62	-0.16	7.24	37.88	4.7 Y 3.700.10	
63	-0.08	7.07	38.81	4.4 Y 3.800.00	
64	-0.12	7.54	36.9	4.6 Y 3.600.10	
65	-0.26	7.65	38.97	4.8 Y 3.500.20	
66	-0.24	7.43	37.15	4.9 Y 3.600.10	
67	-0.14	6.92	37.34	4.7 Y 3.600.00	
68	-0.19	7.2	36.37	4.8 Y 3.500.10	
69	-0.08	6.38	37.78	4.4 Y 3.700.90	
70	-0.13	6.75	37.14	4.8 Y 3.600.00	
71	0.02	3.81	45.69	4.0 Y 4.400.50	
72	0.01	4.48	42.21	4.1 Y 4.100.60	
73	-0.17	6.26	38.18	4.7 Y 3.700.90	
74	-0.35	7.14	35.89	5.1 Y 3.500.00	
75	-0.24	6.64	35.17	5.0 Y 3.400.00	
76	-0.22	6.43	34.79	4.8 Y 3.400.00	
77	-0.23	6.69	35.38	5.1 Y 3.400.00	
78	-0.25	6.56	35.81	5.0 Y 3.500.90	
79	-0.17	6.3	36.8	4.9 Y 3.600.90	
80	-0.3	6.08	38.61	5.0 Y 3.700.90	
81	0.02	3.38	45.93	3.9 Y 4.400.50	
82	0.13	2.68	48.83	3.1 Y 4.700.40	
83	-0.04	4.1	44.62	4.1 Y 4.300.60	
84	0.06	4.08	43.92	3.6 Y 4.300.60	
85	-0.2	6.61	38.15	4.8 Y 3.700.00	
86	-0.26	7.57	35.62	4.8 Y 3.500.10	
87	-0.29	7.16	36.3	5.0 Y 3.500.10	
88	-0.25	7.51	35.02	4.9 Y 3.400.10	
89	-0.11	6.38	36.78	4.4 Y 3.700.90	
90	-0.15	6.53	35.57	4.7 Y 3.500.00	
91	-0.25	6.41	35.61	4.8 Y 3.500.00	
92	-0.27	6.89	35.75	5.0 Y 3.500.00	
93	-0.2	6.56	35.82	4.8 Y 3.500.00	
94	-0.15	6.48	35.73	4.7 Y 3.500.00	
95	-0.24	6.72	35.89	4.8 Y 3.500.00	
96	-0.17	6.41	36.24	4.7 Y 3.500.90	
97	-0.16	6.56	35.49	4.7 Y 3.500.00	
98	-0.03	5.45	36.35	4.4 Y 3.500.80	
99	-0.19	6.86	35.89	4.8 Y 3.500.00	
100	-0.24	7.08	36.18	4.9 Y 3.500.00	
101	-0.09	6.52	36.42	4.5 Y 3.500.00	
102	0.71	7.39	35.83	3.0 Y 3.500.10	
103	0.2	6.86	37.18	3.9 Y 3.600.00	
104	-0.02	5.64	39.29	4.2 Y 3.800.80	
105	0.04	4.72	41.88	3.7 Y 4.100.60	
106	0.2	3.99	44.99	3.3 Y 4.400.50	
107	0.18	4.54	43.89	3.2 Y 4.300.60	
108	0.22	4.4	42.93	3.2 Y 4.200.60	
109	0.21	4.59	44.06	3.3 Y 4.300.60	
110	0.14	4.93	42.4	3.5 Y 4.200.70	
111	0.25	4.42	43.27	3.2 Y 4.200.60	
112	0.22	5.17	42.26	3.4 Y 4.200.70	
113	0.3	3.98	46	2.9 Y 4.500.60	
114	0.34	3.83	47.47	2.8 Y 4.600.60	
115	0.02	5.55	39.77	4.2 Y 3.900.80	
116	1.99	6.84	40.19	9.9 VR 3.900.00	

Cruise No: 2020081

Station: 02

Sample Type: Water, Weight Core

Data Type: Labname, MSV Velocity

Depth (cm)	MSV Velocity (m/sec)
3	1506.92
4	1503.10
5	1583.69
6	1574.58
7	1577.78
8	1567.66
9	1531.11
10	1526.40
11	1524.48
12	1509.96
13	1503.09
14	1501.44
15	1509.69
16	1516.84
17	1511.29
18	1514.99
19	1512.71
20	1516.63
21	1522.78
22	1543.22
23	1544.05
24	1544.89
25	1513.333
26	1519.962
27	1511.336
28	1510.484
29	1509.054
30	1508.032
31	1506.212
32	1507.415
33	1506.617
34	1509.82
35	1508.4
36	1508.583
37	1507.57
38	1506.561
39	1506.549
40	1509.742
41	1510.537
42	1501.976
43	1502.772
44	1511.132
45	1511.332
46	1502.767
47	1495.481
48	1494.922
49	1496.863
50	1496.498
51	1497.099
52	1497.121
53	1501.145
54	1498.113
55	1494.579
56	1496.654
57	1493.9
58	1496.667
59	1496.692
60	1498.502
61	1497.936
62	1498.496
63	1504.528
64	1499.812
65	1500
66	1503.749
67	1496.834
68	1500
69	1499.441
70	1497.407
71	1498.336
72	1498.893
73	1499.816
74	1500
75	1499.817
76	1500
77	1501.099
78	1501.465
79	1504.029
80	1503.108
81	1503.285
82	1502.732
83	1503.364
84	1503.096
85	1501.639
86	1505.382
87	1500.911
88	1505.861
89	1504.396
90	1503.825
91	1504.9
92	1506.884
93	1506.138
94	1506.498
95	1505.225
96	1508.468
97	1505.376
98	1506.429
99	1509.481
100	1511.744
101	1512.766
102	1510.601
103	1510.466
104	1510.563
105	1512.829
106	1512.434
107	1512.74
108	1513.043
109	1515.679
110	1516.407
111	1518.965
112	1522.759
113	1511.409
114	1520.068
115	1497.471
116	1518.825

Cruise No: 2010804

Station: 56

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
25	1455.21		53.6
35	1452.45	1452.08	53.7
45	1452.45	1452.08	53.7
55	1452.45	1456.02	53.7
65	1455.21	1459.97	53.6
75	1452.45	1456.02	53.7
85	1457.98	1456.02	53.5
95	1457.98	1459.97	53.5
105	1463.55	1459.97	53.3

Cruise No: 2010804

Station: 65

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.4484	0.125	0.12
4	1.4724	0.043	0.17
5	1.4481	0.041	0.21
6	1.3929	0.039	0.25
7	1.4591	0.040	0.29
8	1.4249	0.040	0.33
9	1.4347	0.039	0.37
10	1.4017	0.039	0.41
11	1.4636	0.040	0.45
12	1.3987	0.036	0.48
13	1.3066	0.031	0.51
14	1.3396	0.032	0.55
15	1.3988	0.035	0.58
16	1.4030	0.037	0.62
17	1.3850	0.036	0.65
18	1.3730	0.035	0.69
19	1.3793	0.036	0.72
20	1.4150	0.039	0.76
21	1.4572	0.040	0.80
22	1.3794	0.038	0.84
23	1.4159	0.037	0.88
24	1.4101	0.039	0.92
25	1.4322	0.039	0.95
26	1.4293	0.039	0.99
27	1.3885	0.038	1.03
28	1.4318	0.038	1.07
29	1.4047	0.038	1.11
30	1.4211	0.038	1.15
31	1.4188	0.039	1.19
32	1.4203	0.039	1.22
33	1.4424	0.040	1.26
34	1.4165	0.040	1.30
35	1.4393	0.040	1.34
36	1.4121	0.040	1.38
37	1.4729	0.044	1.43
38	1.5353	0.049	1.48
39	1.5604	0.026	1.50

Cruise No: 2010804

Station: 65

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
3	0.64
4	0.52
5	0.47
6	0.45
7	0.44
8	0.44
9	0.44
10	0.44
11	0.43
12	0.44
13	0.45
14	0.45
15	0.45
16	0.44
17	0.44
18	0.44
19	0.45
20	0.44
21	0.44
22	0.43
23	0.44
24	0.44
25	0.44
26	0.44
27	0.44
28	0.45
29	0.45
30	0.45
31	0.46
32	0.46
33	0.47
34	0.48
35	0.49
36	0.52
37	0.56
38	0.65

Cruise No: 2010804

Station: 65

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
2	5
3	5
4	5
5	13
6	9
7	10
8	7
9	9
10	10
11	9
12	11
13	9
14	9
15	8
16	10
17	10
18	12
19	13
20	14
21	13
22	14
23	15
24	15
25	15
26	14
27	17
28	17
29	17
30	17
31	16
32	15
33	18
34	16
35	18
36	17
37	19
38	20
39	21

Cruise No: 2010804

Station: 65

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.3988	0.6155	76.4940	2.6187	3.2542	55.9962	127.2531
36	1.4121	0.6822	71.2717	2.3748	2.4809	51.6852	106.9761

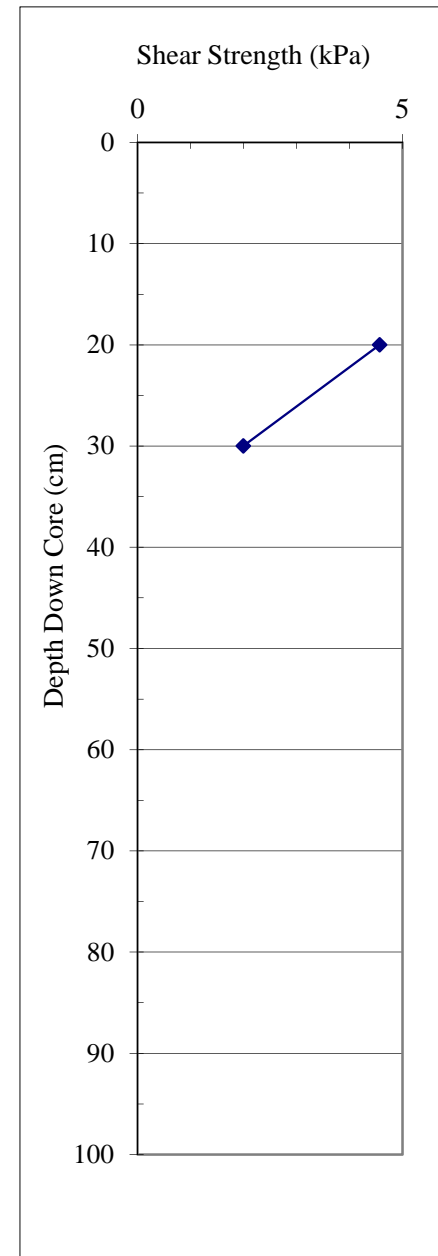
Cruise No: 2010804

Station: 65

Sample Type: **Push Core**

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
20	4.57	3.54	1.29
30	1.99	2.10	0.95



Cruise No: 2010804

Station: 65

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.36	6.09	40.86	0.7 Y 4.00/0.90
3	1.93	9.24	35.53	1.4 Y 3.50/1.40
4	2.26	10.97	35.32	1.4 Y 3.50/1.60
5	2.18	10.02	37.43	1.2 Y 3.60/1.60
6	2.22	10.45	36.17	1.3 Y 3.50/1.60
7	2.23	9.37	37.46	1.2 Y 3.60/1.50
8	1.43	2.58	43.04	7.0 YR 4.20/0.50
9	1.87	7.77	31.79	1.2 Y 3.10/1.20
10	2.37	9.75	33.05	1.0 Y 3.20/1.50
11	2.43	9.75	31.34	1.1 Y 3.00/1.60
12	1.94	7.41	29.75	1.1 Y 2.90/1.20
13	2.29	9.7	31.95	1.3 Y 3.10/1.60
14	1.58	9.16	34.63	2.0 Y 3.40/1.40
15	3.13	10.64	36.79	0.3 Y 3.60/1.70
16	1.99	10.84	37.96	1.7 Y 3.70/1.60
17	1.02	9.78	38.43	2.7 Y 3.70/1.40
18	1.93	11.61	35.94	2.0 Y 3.50/1.70
19	2.43	13.39	33.18	1.9 Y 3.30/2.00
20	0.63	9.91	36.69	3.5 Y 3.60/1.50
21	1.54	11.56	33.83	2.6 Y 3.30/1.80
22	0.86	10.26	34.45	3.3 Y 3.40/1.50
23	2.44	13.04	32.57	1.9 Y 3.20/2.00
24	2.52	12.39	32.53	1.7 Y 3.20/2.00
25	0.2	7.2	37.11	4.0 Y 3.60/1.10
26	0.28	4.66	40	3.3 Y 3.90/0.70
27	0.23	4.41	40.69	3.4 Y 3.90/0.60
28	0.23	4.71	41.79	3.4 Y 4.10/0.70
29	0.07	4.47	42.4	3.8 Y 4.20/0.60
30	0.14	4.37	41.5	3.6 Y 4.00/0.60
31	0.16	4.61	40.53	3.6 Y 3.90/0.60
32	0.24	3.11	44.58	2.8 Y 4.30/0.40
33	0.11	3.7	42.81	3.6 Y 4.20/0.50
34	0.07	4.35	40.9	3.8 Y 4.00/0.60
35	-0.04	5.28	39.34	4.4 Y 3.80/0.80
36	0.02	5.03	39.08	4.2 Y 3.80/0.70
37	0.09	4.13	40.32	3.9 Y 3.90/0.60
38	-0.07	6.45	37.25	4.6 Y 3.60/0.90
39	0.38	5.37	42.48	3.1 Y 4.10/0.70

Cruise No: 2010804

Station: 65

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1572.211
4	1560.693
5	1563.327
6	1557.221
7	1560.289
8	1556.383
9	1552.513
10	1556.463
11	1555.444
12	1552.824
13	1553.465
14	1556.066
15	1549.594
16	1550.489
17	1550.082
18	1548.776
19	1549.673
20	1553.542
21	1551.324
22	1552.98
23	1550.906
24	1549.918
25	1554.892
26	1559.599
27	1557.596
28	1555.259
29	1555.892
30	1554.545
31	1554.545
32	1556.155
33	1554.132
34	1555.102
35	1555.857
36	1557.756
37	1555
38	1561.356
39	1562.199

Cruise No: 2010804

Station: 65

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
20	1434.33	1438.03	14.3
30	1439.7	1439.7	14.32

Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.0863	0.018	0.02
4	1.1986	0.017	0.04
5	1.2970	0.025	0.06
6	1.3151	0.028	0.09
7	1.2975	0.028	0.12
8	1.3170	0.028	0.14
9	1.2945	0.026	0.17
10	1.2683	0.026	0.20
11	1.3075	0.026	0.22
12	1.2829	0.026	0.25
13	1.2963	0.026	0.27
14	1.2924	0.026	0.30
15	1.2844	0.026	0.33
16	1.3082	0.028	0.35
17	1.3299	0.029	0.38
18	1.3095	0.032	0.42
19	1.4407	0.038	0.45
20	1.4722	0.042	0.50
21	1.4435	0.042	0.54
22	1.4494	0.042	0.58
23	1.4482	0.041	0.62
24	1.4355	0.040	0.66
25	1.4153	0.040	0.70
26	1.4661	0.040	0.74
27	1.3917	0.037	0.78
28	1.3686	0.036	0.82
29	1.4512	0.039	0.85
30	1.4016	0.039	0.89
31	1.4393	0.040	0.93
32	1.4423	0.042	0.97
33	1.4647	0.041	1.02
34	1.4039	0.040	1.06
35	1.4727	0.043	1.10
36	1.4826	0.045	1.14
37	1.4837	0.023	1.17

Cruise No: 2010804

Station: 6Z

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	0.55
5	0.48
6	0.45
7	0.44
8	0.44
9	0.44
10	0.44
11	0.44
12	0.45
13	0.45
14	0.45
15	0.45
16	0.45
17	0.46
18	0.46
19	0.46
20	0.46
21	0.46
22	0.46
23	0.46
24	0.46
25	0.46
26	0.46
27	0.46
28	0.46
29	0.46
30	0.47
31	0.47
32	0.48
33	0.48
34	0.50
35	0.53
36	0.62

Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
4	5
5	9
6	11
7	11
8	10
9	9
10	9
11	11
12	11
13	11
14	11
15	12
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17	15
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32	17
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35	18
36	18
37	20

Cruise No: 2010804

Station: 67

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
5	1.2970	0.5527	73.9528	2.1218	2.8392	57.8096	137.0206
32	1.4423	0.7050	72.0029	2.5179	2.5718	51.1218	104.5903

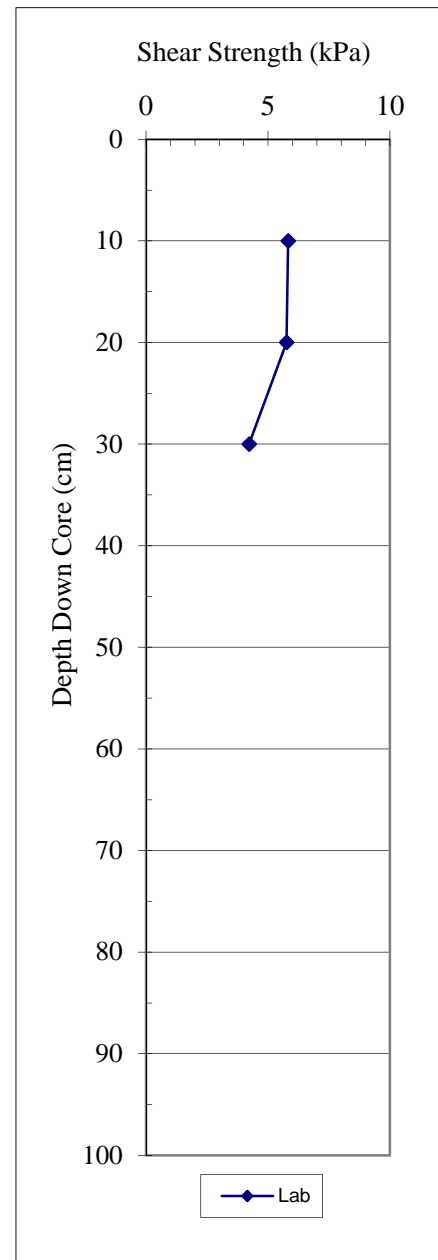
Cruise No: 2010804

Station: 67

Sample Type: Push Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	5.83	3.08	1.89
20	5.76	2.22	2.60
30	4.23	1.49	2.85



Cruise No: 2010804

Station: 67

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	0.79	1.63	45.28	8.3 YR 4.30/0.30
3	1.03	1.88	46.51	6.9 YR 4.50/0.30
4	0.99	2.89	46.21	9.4 YR 4.40/0.50
5	2.01	9.94	32.29	1.6 Y 3.10/1.60
6	2.07	9.32	26.07	1.7 Y 2.50/1.60
7	1.92	7.19	31.16	0.9 Y 3.00/1.20
8	1.66	9.81	35.07	1.9 Y 3.40/1.50
9	1.7	9.2	33.61	1.8 Y 3.30/1.40
10	1.45	6.17	37.83	0.8 Y 3.60/1.00
11	1.85	10.06	31.09	2.0 Y 3.00/1.60
12	1.7	8.48	33.76	1.6 Y 3.30/1.30
13	1.59	6.83	36.06	1.1 Y 3.50/1.10
14	1.51	10.51	33.03	2.4 Y 3.20/1.60
15	0.47	8.23	32.64	3.7 Y 3.20/1.20
16	0.5	8.5	33.08	3.7 Y 3.30/1.30
17	0.83	10	33.85	3.4 Y 3.30/1.50
18	1	10.05	33.19	3.2 Y 3.20/1.50
19	0.66	8.72	33.44	3.4 Y 3.30/1.30
20	0.81	9.74	33.27	3.3 Y 3.20/1.50
21	1.3	11.24	32.19	3.0 Y 3.20/1.70
22	1.06	10.25	32.97	3.2 Y 3.30/1.60
23	0.21	7.13	34.28	4.1 Y 3.40/1.10
24	0.17	6.86	35.78	4.1 Y 3.50/1.00
25	0.08	6.91	36.98	4.1 Y 3.70/1.00
26	0.66	6.63	39.51	2.8 Y 3.80/1.00
27	0.99	8.89	36.61	2.8 Y 3.50/1.30
28	2.25	8.73	36.27	0.5 Y 3.60/1.30
29	0.81	7.3	38.76	2.6 Y 3.70/1.10
30	0.28	3.84	44.29	3.0 Y 4.30/0.60
31	0.18	6.57	34.84	3.9 Y 3.40/1.00
32	0.06	6.83	33.28	4.3 Y 3.20/1.00
33	0.1	6.73	35.06	4.2 Y 3.50/1.00
34	0.1	3.93	43.49	3.5 Y 4.20/0.60
35	-0.09	6.57	34.23	4.7 Y 3.30/1.00
36	-0.25	7.22	34.39	5.0 Y 3.40/1.10

Cruise No: 2010804

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1547.305
4	1581.818
5	1564.682
6	1566.474
7	1551.292
8	1561.818
9	1561.29
10	1561.702
11	1564.727
12	1565.324
13	1562.783
14	1564.583
15	1563.258
16	1566.319
17	1564.298
18	1560.69
19	1560.413
20	1564.138
21	1562.134
22	1564.767
23	1561.313
24	1562.349
25	1561.512
26	1565.068
27	1565.188
28	1567.973
29	1563.014
30	1564.014
31	1559.93
32	1559.019
33	1564.398
34	1566.494
35	1567.606
36	1572.035
37	1578.495

Cruise No: 2010804

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	

NA

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2010	12.3	13.5	14.8	16.1	17.4	18.7	19.9	21.2	22.5	23.8	25.1	26.4	27.7
2011	15.2	16.8	18.5	20.2	21.9	23.6	25.3	27.0	28.7	30.4	32.1	33.8	35.5
2012	18.1	20.0	21.9	23.8	25.7	27.6	29.5	31.4	33.3	35.2	37.1	39.0	40.9
2013	21.0	23.0	25.0	27.0	29.0	31.0	33.0	35.0	37.0	39.0	41.0	43.0	45.0
2014	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0
2015	27.0	29.0	31.0	33.0	35.0	37.0	39.0	41.0	43.0	45.0	47.0	49.0	51.0
2016	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0
2017	33.0	35.0	37.0	39.0	41.0	43.0	45.0	47.0	49.0	51.0	53.0	55.0	57.0
2018	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0
2019	39.0	41.0	43.0	45.0	47.0	49.0	51.0	53.0	55.0	57.0	59.0	61.0	63.0
2020	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0	62.0	64.0	66.0

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Year	Value
1990	1.0
1991	1.0
1992	1.0
1993	1.0
1994	1.0
1995	1.0
1996	1.0
1997	1.0
1998	1.0
1999	1.0
2000	1.0
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2002	1.0
2003	1.0
2004	1.0
2005	1.0
2006	1.0
2007	1.0
2008	1.0
2009	1.0
2010	1.0
2011	1.0
2012	1.0
2013	1.0
2014	1.0
2015	1.0
2016	1.0
2017	1.0
2018	1.0
2019	1.0
2020	1.0
2021	1.0
2022	1.0
2023	1.0
2024	1.0
2025	1.0
2026	1.0
2027	1.0
2028	1.0
2029	1.0
2030	1.0

Cruise No: 2010804

Station: 69

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.4129	0.6480	74.7016	2.5614	2.9528	54.1388	118.0493
45	1.4094	0.6769	71.5326	2.3778	2.5128	51.9722	108.2129
85	1.4682	0.7287	72.2113	2.6224	2.5986	50.3646	101.4690
114	1.6324	0.9090	70.6413	3.0963	2.4061	44.3133	79.5762
125	1.5274	0.8139	69.6778	2.6843	2.2979	46.7123	87.6606
185	1.5098	0.8229	67.0748	2.4993	2.0372	45.4938	83.4653
255	1.5669	0.8776	67.3154	2.6849	2.0595	43.9930	78.5491
265	1.6909	1.0042	67.0662	3.0491	2.0364	40.6143	68.3908
270	1.5765	0.9216	63.9543	2.5569	1.7743	41.5402	71.0577
330	1.5491	0.9002	63.3636	2.4572	1.7295	41.8863	72.0766
380	1.5784	0.9450	61.8620	2.4777	1.6221	40.1330	67.0370
420	1.6256	1.0353	57.6394	2.4441	1.3607	36.3091	57.0084
430	1.6087	0.9705	62.3309	2.5763	1.6547	39.6754	65.7699

Cruise No: 2010804

Station: 69

Sample Type: ***Piston Core***

Data Type: *Laboratory Shear Vane (ASTM D 4648-94)*

Station: 2010804

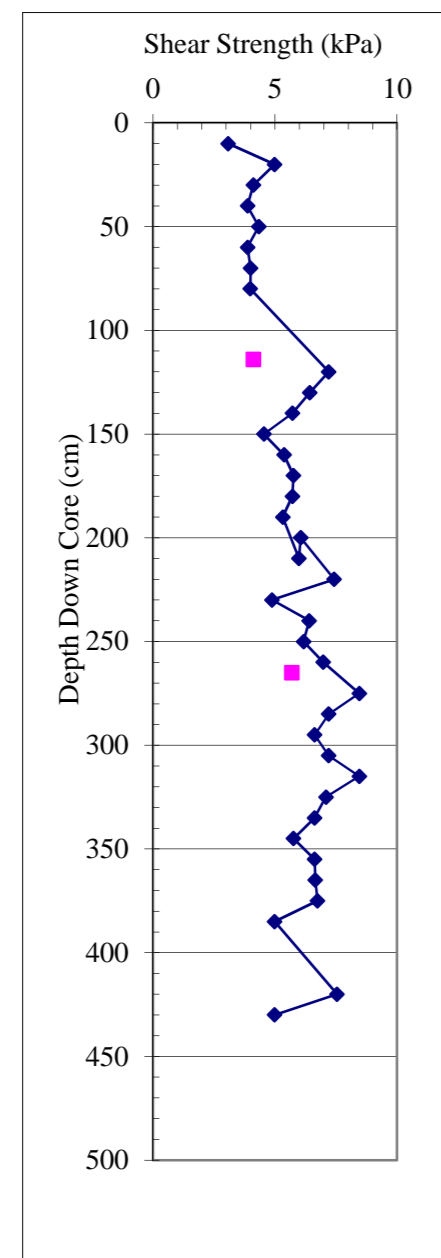
Sample

Type: 69

Shipboard

Data Type: Torvane

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	3.08	2.51	1.23
20	4.98	0.89	5.63
30	4.11		
40	3.88		
50	4.34		
60	3.88		
70	4.00	1.83	2.19
80	3.99	1.44	2.77
120	7.20	1.94	3.71
130	6.42	2.22	2.90
140	5.71		
150	4.54		
160	5.37		
170	5.76		
180	5.71		
190	5.32		
210	5.98		
200	6.05		
220	7.43		
230	4.87		
240	6.40		
250	6.17	2.28	2.70
260	6.98	1.33	5.25
275	8.45	5.71	1.48
285	7.20	3.88	1.86
295	6.63		
305	7.20		
315	8.45	1.71	4.93
325	7.09	5.32	1.33
335	6.63		
345	5.76		
355	6.63		
365	6.65		
375	6.74	2.86	2.36
385	4.98	4.54	1.10
420	7.54		
430	4.98		



Depth Down Core (cm)	Peak Undrained Shear (kPa)
114	4.1
265	5.7

Item	Description	Quantity	Unit	Price	Total
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Cruise No: 2010804

Station: 69

Sample Type: Piston Core

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
120	1465.41	1462.2	17.27
130	1465.41	1470.21	17.32
140	1465.41	1454.28	17.38
150	1465.41	1470.21	17.37
160	1465.41	1466.19	17.41
170	1459.83	1466.19	17.42
180	1465.41	1470.21	17.49
200	1473.87	1466.19	17.47
210	1471.04	1474.24	17.47
220	1473.87	1470.21	17.5
230	1471.04	1466.19	17.51
240	1462.61	1470.21	17.51
250	1471.04	1466.19	17.52
260	1471.04	1470.21	17.53
275	1466.84	1463.15	17.56
285	1475.27	1479.36	17.6
295	1466.84	1467.17	17.6
305	1478.10	1487.59	11.81
315	1472.45	1475.27	11.94
325	1472.45	1487.59	12.15
335	1475.27	1475.27	12.16
345	1469.64	1475.27	12.35
355	1475.27	1475.27	12.46
365	1469.64	1483.46	12.57
375	1486.67	1483.46	12.66
385	1478.10	1491.74	12.79
420	1489.55	1491.74	12.96

Cruise No: 2010084
 Station: 02
 Sample Type: Zwager Weight Core
 Data Type: Labmeasures_MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
3	1.36	0.065	0.06
4	1.35	0.032	0.10
5	1.37	0.031	0.13
6	1.28	0.029	0.16
7	1.35	0.030	0.19
8	1.35	0.033	0.22
9	1.41	0.035	0.26
10	1.36	0.035	0.29
11	1.39	0.035	0.33
12	1.36	0.035	0.36
13	1.41	0.034	0.39
14	1.30	0.027	0.42
15	1.23	0.022	0.44
16	1.26	0.021	0.46
17	1.23	0.023	0.49
18	1.31	0.028	0.52
19	1.38	0.033	0.55
20	1.40	0.036	0.58
21	1.39	0.036	0.62
22	1.38	0.035	0.65
23	1.39	0.036	0.69
24	1.39	0.037	0.73
25	1.42	0.039	0.77
26	1.45	0.040	0.81
27	1.41	0.040	0.85
28	1.44	0.040	0.89
29	1.44	0.041	0.93
30	1.44	0.041	0.97
31	1.44	0.041	1.01
32	1.45	0.041	1.05
33	1.41	0.038	1.09
34	1.38	0.036	1.12
35	1.41	0.037	1.16
36	1.43	0.039	1.20
37	1.44	0.040	1.24
38	1.40	0.038	1.28
39	1.40	0.036	1.31
40	1.39	0.037	1.35
41	1.45	0.040	1.39
42	1.43	0.040	1.43
43	1.41	0.038	1.47
44	1.41	0.038	1.51
45	1.41	0.038	1.55
46	1.42	0.039	1.58
47	1.45	0.040	1.63
48	1.43	0.040	1.67
49	1.42	0.039	1.70
50	1.42	0.039	1.74
51	1.40	0.039	1.78
52	1.45	0.041	1.82
53	1.45	0.042	1.86
54	1.47	0.042	1.91
55	1.42	0.041	1.95
56	1.46	0.041	1.99
57	1.43	0.040	2.03
58	1.39	0.038	2.07
59	1.41	0.038	2.10
60	1.41	0.039	2.14
61	1.46	0.042	2.18
62	1.46	0.042	2.23
63	1.42	0.040	2.27
64	1.43	0.039	2.30
65	1.40	0.039	2.34
66	1.46	0.041	2.38
67	1.44	0.041	2.43
68	1.42	0.041	2.47
69	1.50	0.044	2.51
70	1.48	0.044	2.55
71	1.46	0.043	2.60
72	1.44	0.041	2.64
73	1.44	0.040	2.68
74	1.41	0.039	2.72
75	1.42	0.039	2.76
76	1.43	0.040	2.80
77	1.44	0.040	2.84
78	1.42	0.039	2.88
79	1.41	0.038	2.91
80	1.43	0.041	2.95
81	1.50	0.045	3.00
82	1.50	0.045	3.04
83	1.44	0.044	3.09
84	1.50	0.044	3.13
85	1.47	0.044	3.18
86	1.47	0.042	3.22
87	1.39	0.039	3.26
88	1.45	0.041	3.30
89	1.48	0.044	3.34
90	1.47	0.043	3.39
91	1.41	0.040	3.43
92	1.46	0.042	3.47
93	1.51	0.046	3.51
94	1.49	0.045	3.56
95	1.47	0.044	3.60
96	1.46	0.043	3.65
97	1.47	0.044	3.69
98	1.50	0.045	3.74
99	1.47	0.045	3.78
100	1.48	0.044	3.82
101	1.45	0.044	3.87
102	1.48	0.045	3.91
103	1.53	0.047	3.96
104	1.49	0.047	4.01
105	1.50	0.045	4.05
106	1.45	0.042	4.09
107	1.42	0.041	4.14
108	1.49	0.043	4.18
109	1.46	0.043	4.22
110	1.44	0.041	4.26
111	1.42	0.040	4.30
112	1.44	0.041	4.34
113	1.49	0.042	4.39
114	1.41	0.041	4.43
115	1.48	0.043	4.47
116	1.47	0.044	4.51
117	1.47	0.043	4.56
118	1.45	0.041	4.60
119	1.42	0.040	4.64
120	1.43	0.040	4.68
121	1.44	0.040	4.72
122	1.43	0.041	4.76
123	1.45	0.041	4.80
124	1.44	0.041	4.84
125	1.46	0.042	4.88
126	1.46	0.042	4.93
127	1.45	0.041	4.97
128	1.43	0.042	5.01
129	1.50	0.045	5.06
130	1.48	0.046	5.10
131	1.50	0.045	5.15
132	1.44	0.043	5.19
133	1.48	0.044	5.23
134	1.49	0.045	5.28
135	1.47	0.046	5.32
136	1.53	0.049	5.37
137	1.56	0.026	5.40

Cruise No: 2018094
Station: 62
Sample Type: Tracer Weight Core
Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	0.65
5	0.56
6	0.52
7	0.50
8	0.50
9	0.49
10	0.49
11	0.48
12	0.49
13	0.48
14	0.48
15	0.47
16	0.47
17	0.46
18	0.46
19	0.46
20	0.46
21	0.45
22	0.45
23	0.45
24	0.44
25	0.44
26	0.43
27	0.43
28	0.43
29	0.43
30	0.43
31	0.43
32	0.42
33	0.42
34	0.42
35	0.42
36	0.42
37	0.42
38	0.42
39	0.43
40	0.43
41	0.43
42	0.43
43	0.44
44	0.44
45	0.44
46	0.44
47	0.44
48	0.44
49	0.44
50	0.44
51	0.44
52	0.45
53	0.45
54	0.45
55	0.45
56	0.45
57	0.45
58	0.45
59	0.45
60	0.44
61	0.44
62	0.44
63	0.44
64	0.44
65	0.44
66	0.44
67	0.44
68	0.45
69	0.44
70	0.44
71	0.44
72	0.44
73	0.44
74	0.44
75	0.44
76	0.44
77	0.44
78	0.45
79	0.45
80	0.45
81	0.45
82	0.45
83	0.45
84	0.45
85	0.45
86	0.46
87	0.46
88	0.46
89	0.46
90	0.46
91	0.47
92	0.47
93	0.47
94	0.47
95	0.47
96	0.47
97	0.47
98	0.47
99	0.47
100	0.47
101	0.47
102	0.47
103	0.48
104	0.48
105	0.48
106	0.49
107	0.48
108	0.48
109	0.48
110	0.48
111	0.49
112	0.49
113	0.49
114	0.48
115	0.48
116	0.48
117	0.48
118	0.48
119	0.49
120	0.49
121	0.49
122	0.49
123	0.49
124	0.50
125	0.50
126	0.51
127	0.51
128	0.51
129	0.51
130	0.52
131	0.52
132	0.53
133	0.54
134	0.57
135	0.63

Cruise No: 2010024

Station: 02

Sample Type: Tracer Weight Core

Data Type: Labsource MST Magnetic Susceptibility

Depth (m)	MST Magnetic Susceptibility
2	5
3	7
4	7
5	17
6	11
7	14
8	16
9	15
10	16
11	17
12	15
13	15
14	15
15	10
16	11
17	8
18	11
19	18
20	19
21	18
22	17
23	17
24	15
25	15
26	15
27	15
28	17
29	16
30	15
31	15
32	13
33	14
34	14
35	15
36	15
37	15
38	15
39	17
40	15
41	15
42	16
43	16
44	17
45	16
46	17
47	16
48	18
49	17
50	17
51	16
52	17
53	18
54	17
55	17
56	17
57	17
58	18
59	18
60	18
61	19
62	17
63	17
64	18
65	18
66	18
67	17
68	17
69	16
70	16
71	17
72	17
73	17
74	16
75	17
76	16
77	16
78	18
79	17
80	17
81	18
82	18
83	17
84	17
85	17
86	18
87	17
88	16
89	18
90	17
91	17
92	17
93	19
94	17
95	18
96	19
97	17
98	17
99	16
100	17
101	17
102	18
103	18
104	17
105	17
106	16
107	17
108	17
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110	17
111	17
112	17
113	16
114	16
115	16
116	16
117	17
118	17
119	17
120	17
121	17
122	17
123	18
124	17
125	18
126	18
127	18
128	18
129	18
130	18
131	21
132	17
133	16
134	18
135	18
136	17
137	17

Cruise No: 2010804

Station: 69

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
35	1.4071	0.6614	72.8275	2.4339	2.6802	52.9991	112.7618
85	1.4281	0.6721	73.8264	2.5680	2.8206	52.9354	112.4741
125	1.4567	0.7273	71.2377	2.5285	2.4768	50.0762	100.3051

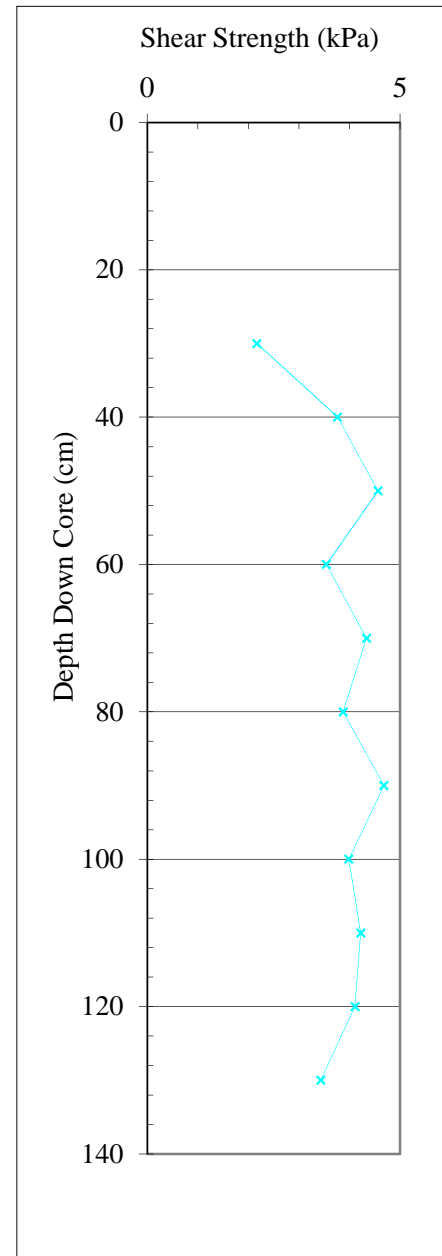
Cruise No: 2010804

Station: 69

Sample Type: Trigger Weight Core

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
30	2.17	2.06	1.06
40	3.77	1.99	1.89
50	4.57		
60	3.54		
70	4.34		
80	3.88		
90	4.68		
100	3.99		
110	4.23		
120	4.11	2.40	1.71
130	3.43	1.33	2.58



Cruise No: 2010094
Station: 62
Sample Type: Tracer Weight Core
Data Type: Labmaster 407 Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1503.92
4	1473.54
5	1473.21
6	1465.49
7	1451.92
8	1453.91
9	1473.15
10	1488.73
11	1480.43
12	1479.22
13	1476.87
14	1487.88
15	1497.62
16	1492.25
17	1485.87
18	1478.42
19	1471.43
20	1473.72
21	1472.49
22	1478.71
23	1482.82
24	1485.44
25	1471.863
26	1469.303
27	1478.799
28	1478.439
29	1472.694
30	1467.76
31	1470.909
32	1476.277
33	1475.41
34	1464.504
35	1478.985
36	1480.435
37	1478.985
38	1476.449
39	1473.454
40	1477.96
41	1469.801
42	1471.699
43	1467.748
44	1477.899
45	1478.119
46	1480.144
47	1485.199
48	1491.304
49	1485.662
50	1480.073
51	1474.773
52	1476.277
53	1465.699
54	1458.378
55	1440.142
56	1452.5
57	1452.763
58	1443.262
59	1462.455
60	1457.914
61	1464.621
62	1470.163
63	1474.503
64	1474.503
65	1477.891
66	1476.417
67	1467.153
68	1465.693
69	1468.624
70	1468.738
71	1466.302
72	1454.054
73	1451.346
74	1450.447
75	1449.643
76	1448.928
77	1456.115
78	1452.198
79	1450.633
80	1450.542
81	1448.201
82	1449.192
83	1448.301
84	1452.236
85	1455.357
86	1452.931
87	1452.837
88	1459.643
89	1453.405
90	1456.475
91	1453.694
92	1447.928
93	1446.126
94	1447.653
95	1449.458
96	1445.766
97	1453.72
98	1448.101
99	1444.123
100	1444.245
101	1450.633
102	1449.458
103	1446.486
104	1448.101
105	1450.182
106	1445.454
107	1447.359
108	1452.555
109	1447.359
110	1449.728
111	1449.91
112	1447.842
113	1445.796
114	1449.554
115	1453.286
116	1447.266
117	1449.47
118	1451.773
119	1450.624
120	1451.601
121	1453.286
122	1451.681
123	1454.867
124	1457.345
125	1449.648
126	1439.161
127	1442.732
128	1451.76
129	1462.032
130	1462.167
131	1468.093
132	1468.093
133	1473.89
134	1467.568
135	1469.947
136	1468.893
137	1480.071

Cruise No: 2010804

Station: 69

Sample Type: **Trigger Weight Core**

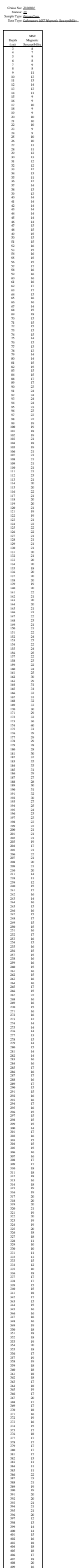
Data Type: Laboratory Discrete

Depth (cm)	Discrete Longitudinal Velocity (m/s)	Discrete Transverse Velocity (m/s)	Tempreture (C)
30	1458.50	1451.23	12.82
40	1464.05	1463.15	12.83
50	1461.27	1455.19	12.84
60	1464.05	1459.16	12.87
70	1461.27	1455.19	13
80	1461.27	1463.15	13.09
90	1458.50	1463.15	13.04
100	1458.50	1455.19	13.22
110	1458.50	1455.19	13.24
120	1464.05	1459.16	13.3
130	1461.27	1459.16	14.93

Table with 2 columns: No. and Description. The table contains a list of 25 items, each with a numerical identifier and a brief description of the item.

No.	Description
1	1.
2	2.
3	3.
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10	10.
11	11.
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20	20.
21	21.
22	22.
23	23.
24	24.
25	25.

Sl. No.	Name	Grade	Section
1			
2			
3			
4			
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50			



Cruise No: 2010804

Station: 70

Sample Type: Piston Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.4103	0.6307	76.1265	2.6420	3.1888	55.2752	123.5896
45	1.4111	0.6642	72.9451	2.4550	2.6962	52.9327	112.4616
75	1.4773	0.7584	70.2067	2.5456	2.3565	48.6630	94.7913
115	1.4819	0.8014	66.4558	2.3892	1.9811	45.9202	84.9120
145	1.5826	0.9036	66.3169	2.6825	1.9688	42.9082	75.1567
197	1.6159	0.9523	64.8165	2.7065	1.8422	41.0724	69.6998
245	1.5512	0.8616	67.3476	2.6387	2.0626	44.4573	80.0417
300	1.4266	0.8121	60.0148	2.0309	1.5009	43.0778	75.6783
354	1.5631	0.8978	64.9641	2.5626	1.8542	42.5596	74.0935
397	1.5297	0.8823	63.2271	2.3993	1.7194	42.3237	73.3814

Cruise No: 2003801
 Station: 70
 Sample Type: Piston Core
 Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	2.40	1.49	1.62
20	3.66	1.66	2.20
30	4.11	2.06	2.00
40	4.54	1.22	3.73
50	3.08	3.43	0.90
60	2.77	1.11	2.50
70	4.34	1.83	2.38
80	5.43	2.33	2.33
90	6.17	1.37	4.50
100	4.76	1.66	2.87
110	4.91		
120	4.65		
130	5.37		
140	3.77		
150	5.25	2.06	2.56
160	4.65	1.66	2.80
170	5.25		
180	4.98		
190	5.60	1.83	3.06
200	5.43	1.11	4.90
250	7.20	2.74	2.63
260	5.21	1.88	2.76
280	5.94		
290	5.87		
300	6.85	1.03	6.67
310	5.43	1.66	3.27
340	5.94		
350	5.76		
360	4.46	3.88	1.15
370	4.43	2.88	1.54
390	7.08	2.17	3.26
400	6.09	2.44	2.50

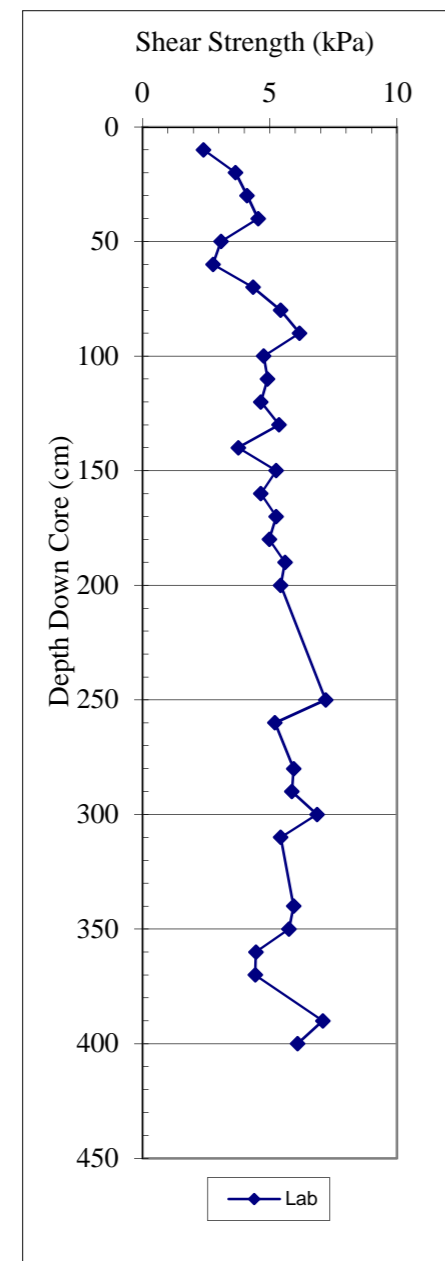


Table with 2 columns: Name and Address. The text is extremely small and difficult to read, but it appears to be a list of names and their corresponding addresses.

Table with multiple rows and columns, containing dense, illegible text. The text appears to be a list or index of items, possibly names or identifiers, arranged in a grid format. The text is too small to be transcribed accurately.

Cruise No: 2010804

Station: 70

Sample Type: *Piston Core*

Data Type: *Laboratory Discrete*

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
10	1471.98	1471.98	
20	1469.17	1480.09	
30	1466.36	1480.09	
40	1466.36	1467.96	
50	1469.17	1467.96	
60	1466.36	1480.09	
70	1469.17	1480.09	
90	1477.64	1488.28	
100	1474.80	1488.28	
110	1474.80	1492.42	
120	1477.64	1492.42	
130	1477.64	1488.28	
140	1486.22	1492.42	
150	1491.99	1504.95	
160	1489.10	1492.42	
170	1518.52	1492.42	
180	1509.57	1548.30	
190	1489.10	1504.95	
200	1497.80	1504.95	
252	1471.98	1480.09	
272	1474.80	1480.09	
282	1471.98	1480.09	
292	1474.80	1484.17	
302	1471.98	1480.09	
312	1483.35	1488.28	
322	1483.35	1471.98	
332	1477.64	1484.17	
342	1474.80	1484.17	
352	1477.64	1480.09	
362	1469.17	1484.17	
372	1469.17	1459.98	
390	1481.62	1461.58	
400		1485.69	

Cruise No: 201004

Station: 20

Sample Type: Tracer Weight Core

Down Type: Leiberman MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	Overburden Pressure (kPa)	Total
1	1.40	0.037	0.04
2	1.43	0.039	0.08
3	1.42	0.040	0.12
4	1.47	0.042	0.16
5	1.43	0.041	0.20
6	1.43	0.040	0.24
7	1.43	0.041	0.28
8	1.46	0.040	0.32
9	1.39	0.038	0.36
10	1.39	0.036	0.39
11	1.38	0.036	0.43
12	1.41	0.037	0.47
13	1.41	0.037	0.50
14	1.39	0.037	0.54
15	1.42	0.037	0.58
16	1.36	0.035	0.61
17	1.39	0.035	0.65
18	1.40	0.036	0.68
19	1.40	0.037	0.72
20	1.39	0.037	0.76
21	1.42	0.038	0.80
22	1.42	0.038	0.83
23	1.37	0.036	0.87
24	1.38	0.034	0.90
25	1.33	0.031	0.93
26	1.33	0.029	0.96
27	1.31	0.029	0.99
28	1.31	0.028	1.02
29	1.29	0.028	1.05
30	1.34	0.030	1.08
31	1.35	0.032	1.11
32	1.37	0.033	1.14
33	1.37	0.033	1.18
34	1.33	0.032	1.21
35	1.37	0.033	1.24
36	1.37	0.035	1.28
37	1.41	0.036	1.31
38	1.37	0.034	1.35
39	1.33	0.032	1.38
40	1.35	0.033	1.41
41	1.40	0.036	1.45
42	1.43	0.038	1.48
43	1.40	0.038	1.52
44	1.41	0.038	1.56
45	1.40	0.038	1.60
46	1.43	0.039	1.64
47	1.41	0.038	1.68
48	1.40	0.037	1.71
49	1.40	0.038	1.75
50	1.44	0.039	1.79
51	1.43	0.040	1.83
52	1.44	0.040	1.87
53	1.43	0.040	1.91
54	1.43	0.040	1.95
55	1.43	0.041	1.99
56	1.47	0.041	2.03
57	1.42	0.040	2.07
58	1.43	0.040	2.11
59	1.44	0.041	2.15
60	1.43	0.040	2.19
61	1.43	0.041	2.23
62	1.46	0.042	2.27
63	1.44	0.042	2.32
64	1.46	0.042	2.36
65	1.45	0.042	2.40
66	1.43	0.041	2.44
67	1.45	0.041	2.48
68	1.42	0.040	2.52
69	1.44	0.040	2.56
70	1.45	0.040	2.60
71	1.41	0.038	2.64
72	1.39	0.037	2.68
73	1.42	0.039	2.72
74	1.46	0.042	2.76
75	1.45	0.042	2.80
76	1.42	0.040	2.84
77	1.44	0.040	2.88
78	1.45	0.042	2.92
79	1.45	0.042	2.97
80	1.44	0.040	3.01
81	1.42	0.040	3.05
82	1.46	0.041	3.09
83	1.44	0.042	3.13
84	1.46	0.042	3.17
85	1.44	0.042	3.21
86	1.47	0.042	3.25
87	1.43	0.041	3.29
88	1.44	0.041	3.34
89	1.45	0.042	3.38
90	1.45	0.042	3.42
91	1.45	0.043	3.46
92	1.49	0.043	3.51
93	1.44	0.043	3.55
94	1.49	0.044	3.59
95	1.47	0.044	3.64
96	1.48	0.044	3.68
97	1.45	0.043	3.72
98	1.47	0.042	3.77
99	1.43	0.041	3.81
100	1.44	0.042	3.85
101	1.47	0.043	3.89
102	1.44	0.042	3.93
103	1.45	0.042	3.98
104	1.47	0.043	4.02
105	1.47	0.044	4.06
106	1.47	0.043	4.11
107	1.47	0.043	4.15
108	1.46	0.044	4.19
109	1.49	0.045	4.24
110	1.48	0.044	4.28
111	1.45	0.043	4.33
112	1.47	0.042	4.37
113	1.43	0.042	4.41
114	1.49	0.044	4.45
115	1.49	0.046	4.50
116	1.49	0.045	4.54
117	1.46	0.045	4.59
118	1.55	0.048	4.64
119	1.52	0.047	4.69
120	1.44	0.044	4.73
121	1.50	0.045	4.77
122	1.49	0.045	4.82
123	1.45	0.043	4.86
124	1.46	0.043	4.90
125	1.46	0.042	4.95
126	1.44	0.042	4.99
127	1.47	0.044	5.03
128	1.51	0.046	5.08
129	1.48	0.046	5.13
130	1.51	0.046	5.17
131	1.47	0.046	5.22
132	1.53	0.048	5.27
133	1.54	0.050	5.32
134	1.52	0.050	5.37
135	1.55	0.052	5.42
136	1.60	0.054	5.47
137	1.57	0.052	5.50

Cruise No: 2010094
Station: 21
Sample Type: Tracer Weight Core
Data Type: Labatory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
2	0.41
3	0.51
4	0.46
5	0.44
6	0.44
7	0.44
8	0.43
9	0.43
10	0.43
11	0.43
12	0.43
13	0.43
14	0.43
15	0.43
16	0.43
17	0.44
18	0.43
19	0.43
20	0.43
21	0.43
22	0.42
23	0.42
24	0.41
25	0.42
26	0.42
27	0.42
28	0.42
29	0.41
30	0.40
31	0.40
32	0.40
33	0.41
34	0.41
35	0.42
36	0.42
37	0.42
38	0.41
39	0.41
40	0.41
41	0.41
42	0.41
43	0.41
44	0.42
45	0.42
46	0.43
47	0.43
48	0.43
49	0.43
50	0.43
51	0.43
52	0.43
53	0.43
54	0.43
55	0.43
56	0.43
57	0.43
58	0.43
59	0.43
60	0.43
61	0.43
62	0.43
63	0.43
64	0.43
65	0.43
66	0.43
67	0.43
68	0.43
69	0.43
70	0.43
71	0.43
72	0.44
73	0.44
74	0.44
75	0.44
76	0.44
77	0.44
78	0.45
79	0.45
80	0.45
81	0.45
82	0.45
83	0.46
84	0.46
85	0.46
86	0.46
87	0.46
88	0.46
89	0.46
90	0.46
91	0.46
92	0.47
93	0.46
94	0.47
95	0.47
96	0.48
97	0.48
98	0.47
99	0.47
100	0.48
101	0.48
102	0.48
103	0.48
104	0.48
105	0.48
106	0.48
107	0.48
108	0.48
109	0.47
110	0.47
111	0.48
112	0.48
113	0.48
114	0.48
115	0.48
116	0.48
117	0.48
118	0.48
119	0.48
120	0.49
121	0.49
122	0.49
123	0.49
124	0.50
125	0.50
126	0.50
127	0.51
128	0.51
129	0.52
130	0.52
131	0.53
132	0.53
133	0.54
134	0.55
135	0.60
136	0.72

Cruise No: 2010024

Station: 20

Sample Type: Tracer Weight Core

Data Type: Labmaster MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
1	8
2	8
3	9
4	11
5	11
6	12
7	11
8	11
9	11
10	11
11	13
12	11
13	10
14	10
15	10
16	8
17	9
18	11
19	11
20	11
21	10
22	9
23	10
24	10
25	10
26	12
27	10
28	13
29	13
30	12
31	11
32	13
33	13
34	14
35	13
36	13
37	13
38	12
39	11
40	13
41	13
42	13
43	14
44	14
45	15
46	14
47	15
48	14
49	15
50	15
51	14
52	13
53	15
54	16
55	14
56	16
57	16
58	16
59	14
60	15
61	14
62	14
63	14
64	16
65	16
66	16
67	15
68	16
69	15
70	15
71	14
72	14
73	15
74	15
75	14
76	16
77	14
78	15
79	16
80	16
81	16
82	16
83	15
84	16
85	16
86	16
87	16
88	15
89	15
90	16
91	15
92	17
93	17
94	17
95	17
96	17
97	16
98	15
99	17
100	15
101	15
102	16
103	16
104	16
105	16
106	15
107	16
108	16
109	16
110	19
111	16
112	16
113	15
114	15
115	16
116	15
117	15
118	16
119	15
120	17
121	15
122	16
123	16
124	17
125	17
126	19
127	19
128	19
129	18
130	18
131	18
132	20
133	19
134	17
135	17
136	17
137	16

Cruise No: 2010804

Station: 70

Sample Type: Trigger Weight Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
10	1.3927	0.6028	77.1401	2.6370	3.3745	56.7166	131.0356
70	1.4504	0.7056	72.7371	2.5880	2.6680	51.3532	105.5635
130	1.5139	0.7919	70.5051	2.6848	2.3904	47.6909	91.1714

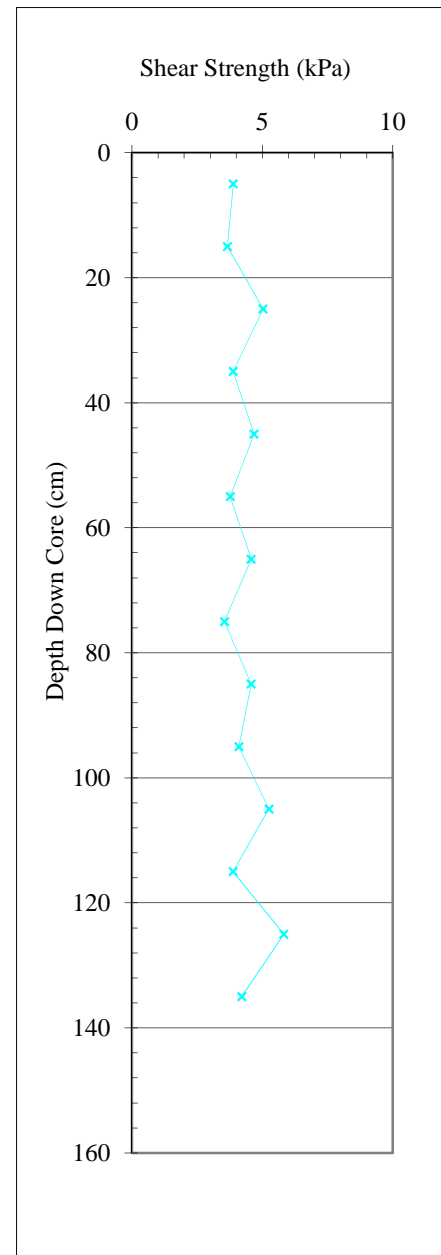
Cruise No: 2010804

Station: 70

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
5	3.88	1.37	2.83
15	3.66	2.10	1.74
25	5.03		
35	3.88		
45	4.68		
55	3.77		
65	4.57		
75	3.54		
85	4.57		
95	4.10		
105	5.25	2.63	2.00
115	3.88	1.88	2.06
125	5.83	1.14	5.10
135	4.21	2.44	1.73



Cruise No: 2010004
 Station: 70
 Sample Type: Zooplankton
 Data Type: Calculated

Depth (m)	A salinc	B salinc	C salinc	Msalinc
1	2.48	11.40	34.25	1.4 Y 3.001.80
2	3.13	10.16	30.26	0.5 Y 2.901.70
3	2.97	10.37	25.68	0.8 Y 2.501.80
4	2.55	9.66	27.50	1.1 Y 2.701.60
5	2.72	11.44	29.64	1.3 Y 2.901.90
6	2.94	11.11	27.29	1.1 Y 2.701.90
7	3.03	10.44	28.88	0.7 Y 2.801.70
8	3.18	13.07	31.53	1.2 Y 3.102.10
9	2.36	7.66	38.36	9.8 Y 3.701.20
10	2.27	7.29	36.70	10.0 Y 3.601.10
11	2.72	11.44	29.21	1.4 Y 3.001.90
12	2.38	10.70	33.79	1.4 Y 3.301.70
13	1.87	11.46	35.89	2.1 Y 3.501.70
14	1.83	11.54	35.07	2.1 Y 3.401.80
15	1.72	11.66	35.16	2.3 Y 3.401.80
16	0.60	8.15	35.87	3.3 Y 3.501.30
17	1.79	11.46	33.76	2.2 Y 3.301.80
18	2.46	11.53	30.82	1.5 Y 3.001.80
19	2.44	10.90	32.25	1.4 Y 3.101.70
20	1.98	10.15	35.34	1.6 Y 3.401.60
21	1.66	11.23	37.79	2.1 Y 3.701.70
22	1.11	10.22	38.80	2.7 Y 3.801.50
23	1.41	10.92	37.11	2.4 Y 3.601.60
24	2.28	11.81	35.67	1.6 Y 3.501.80
25	2.29	12.25	35.91	1.7 Y 3.501.90
26	2.06	12.94	34.78	2.2 Y 3.402.00
27	3.37	13.59	33.74	1.0 Y 3.302.20
28	2.02	13.35	33.70	2.4 Y 3.302.10
29	2.20	12.94	34.07	2.0 Y 3.302.00
30	0.66	7.71	39.68	3.0 Y 3.801.10
31	0.48	8.17	38.73	3.5 Y 3.801.20
32	0.48	9.12	37.19	3.7 Y 3.601.30
33	0.69	9.80	37.34	3.4 Y 3.601.40
34	1.69	11.81	35.68	2.4 Y 3.501.80
35	0.20	7.71	36.71	4.0 Y 3.601.10
36	0.15	7.45	37.32	4.1 Y 3.601.10
37	0.16	7.70	36.82	4.1 Y 3.601.10
38	0.27	8.51	38.53	3.9 Y 3.701.20
39	0.48	10.50	37.30	3.8 Y 3.601.50
40	0.52	9.28	36.98	4.0 Y 3.601.40
41	0.30	9.42	36.43	4.1 Y 3.501.40
42	0.55	10.18	36.01	3.8 Y 3.501.50
43	0.16	7.77	37.36	4.1 Y 3.601.10
44	0.13	8.07	36.39	4.3 Y 3.501.50
45	0.28	10.08	35.89	4.1 Y 3.501.50
46	0.80	11.41	34.33	3.7 Y 3.301.70
47	-0.03	7.53	35.43	4.6 Y 3.401.10
48	0.05	7.11	35.86	4.3 Y 3.501.10
49	0.08	9.62	34.29	4.5 Y 3.301.40
50	-0.05	6.75	36.01	4.4 Y 3.501.60
51	0.04	6.37	37.24	4.2 Y 3.600.90
52	-0.12	7.43	36.25	4.7 Y 3.501.10
53	0.04	5.85	39.36	4.1 Y 3.800.80
54	-0.21	7.81	35.41	4.8 Y 3.401.20
55	-0.28	7.73	36.32	4.9 Y 3.501.10
56	0.01	6.68	34.12	4.4 Y 3.301.60
57	-0.20	7.80	35.16	4.8 Y 3.401.10
58	-0.03	6.64	36.21	4.5 Y 3.501.00
59	-0.24	8.32	34.97	5.0 Y 3.401.20
60	-0.14	7.27	34.40	4.8 Y 3.301.10
61	0.01	6.59	35.61	4.3 Y 3.501.00
62	0.03	7.00	34.46	4.4 Y 3.401.60
63	-0.19	7.24	34.25	4.9 Y 3.301.10
64	-0.11	7.18	35.10	4.7 Y 3.401.10
65	-0.30	7.72	35.36	5.0 Y 3.401.10
66	-0.07	6.73	35.72	4.6 Y 3.501.00
67	-0.01	5.62	34.55	4.5 Y 3.400.90
68	-0.05	7.04	35.59	4.6 Y 3.501.10
69	-0.20	7.76	34.66	4.9 Y 3.401.10
70	-0.15	6.92	36.34	4.7 Y 3.501.00
71	0.24	4.20	36.66	3.4 Y 3.600.60
72	0.16	4.26	41.31	3.5 Y 4.000.60
73	-0.11	7.09	35.72	4.7 Y 3.501.10
74	-0.09	7.15	35.14	4.6 Y 3.401.10
75	-0.08	6.44	38.10	4.4 Y 3.700.90
76	-0.01	4.63	43.36	4.0 Y 4.200.70
77	0.08	4.50	43.47	3.8 Y 4.200.60
78	0.01	4.68	43.94	4.0 Y 4.300.70
79	0.19	3.95	44.06	3.4 Y 4.300.60
80	0.09	4.47	43.78	3.7 Y 4.300.60
81	0.03	5.90	39.16	4.2 Y 3.800.90
82	0.12	4.22	42.01	3.7 Y 4.100.60
83	0.18	4.21	42.89	3.5 Y 4.200.60
84	0.20	3.91	44.77	3.4 Y 4.300.60
85	0.09	4.30	44.72	3.6 Y 4.300.60
86	0.13	3.85	45.59	3.5 Y 4.400.60
87	0.11	4.28	45.62	3.7 Y 4.400.60
88	0.16	5.28	41.19	3.8 Y 4.000.80
89	0.01	7.13	38.03	4.2 Y 3.701.10
90	0.02	7.01	37.72	4.2 Y 3.701.00
91	0.04	7.81	36.01	4.4 Y 3.501.20
92	-0.05	8.46	33.97	4.5 Y 3.301.30
93	-0.07	8.05	34.44	4.6 Y 3.401.20
94	0.11	6.43	36.56	4.2 Y 3.600.90
95	-0.03	7.16	35.45	4.4 Y 3.401.10
96	-0.02	7.13	35.66	4.5 Y 3.501.10
97	0.04	6.49	37.45	4.2 Y 3.600.90
98	0.04	7.02	36.83	4.3 Y 3.601.00
99	0.00	7.61	36.00	4.5 Y 3.501.10
100	0.04	7.89	34.97	4.4 Y 3.401.20
101	0.04	8.00	35.22	4.4 Y 3.401.20
102	0.01	7.89	35.34	4.5 Y 3.401.20
103	0.11	7.03	36.52	4.1 Y 3.501.00
104	0.01	7.28	36.68	4.3 Y 3.601.10
105	0.13	6.73	37.55	4.0 Y 3.701.00
106	0.13	6.63	38.66	3.9 Y 3.801.00
107	0.09	6.91	37.15	4.2 Y 3.601.00
108	0.12	7.34	36.25	4.2 Y 3.501.10
109	0.10	6.44	35.65	4.2 Y 3.501.00
110	-0.02	7.03	35.94	4.4 Y 3.501.00
111	0.07	6.45	36.97	4.1 Y 3.700.90
112	0.15	5.68	38.54	3.8 Y 3.700.80
113	0.09	5.08	42.62	3.7 Y 4.100.70
114	0.21	4.45	43.49	3.3 Y 4.200.60
115	0.22	4.65	42.21	3.4 Y 4.100.70
116	0.10	5.95	38.88	4.0 Y 3.800.80
117	0.14	5.95	38.63	3.9 Y 3.800.90
118	0.29	4.94	40.86	3.3 Y 4.000.70
119	0.25	5.95	38.97	3.7 Y 3.800.90
120	0.39	3.25	46.49	2.2 Y 4.500.50
121	0.31	6.00	41.60	3.4 Y 4.000.90
122	0.26	6.44	37.83	3.7 Y 3.701.00
123	0.23	6.46	39.81	3.7 Y 3.900.90
124	0.32	5.89	39.12	3.5 Y 3.800.80
125	0.39	5.74	41.38	3.1 Y 4.000.80
126	0.39	5.38	44.27	3.0 Y 4.300.80
127	0.39	4.75	44.09	2.8 Y 4.300.70
128	0.36	5.07	40.10	3.2 Y 3.900.70
129	0.43	5.73	41.75	3.1 Y 4.000.80
130	0.36	5.48	42.16	3.1 Y 4.100.80
131	0.34	4.49	44.60	2.9 Y 4.300.60
132	0.37	5.09	43.42	2.9 Y 4.200.70
133	0.25	6.04	40.72	3.6 Y 4.000.90
134	0.33	5.76	41.59	3.3 Y 4.000.80
135	0.32	5.66	42.73	3.2 Y 4.200.80
136	0.34	5.88	41.49	3.2 Y 4.000.80

Cruise No: 2010084
Station: 21
Sample Type: Tracer Weight Core
Data Type: Labnumeric SST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
1	1544.33
2	1560.33
3	1528.69
4	1535.82
5	1536.05
6	1542.74
7	1538.49
8	1539.61
9	1536.72
10	1541.73
11	1541.62
12	1538.74
13	1536.35
14	1535.43
15	1533.20
16	1534.52
17	1534.90
18	1531.38
19	1532.16
20	1534.50
21	1532.30
22	1532.95
23	1531.68
24	1529.57
25	1530.67
26	1531.852
27	1531.481
28	1534.566
29	1537.546
30	1539.065
31	1540.601
32	1538.346
33	1537.336
34	1531.707
35	1534.139
36	1534.857
37	1533.333
38	1532.7
39	1531.827
40	1528.839
41	1529.128
42	1530.018
43	1526.238
44	1517.002
45	1504.727
46	1502.004
47	1524.095
48	1518.299
49	1504.57
50	1498.909
51	1490.416
52	1493.116
53	1493.84
54	1491.336
55	1491.531
56	1493.863
57	1504.762
58	1492.029
59	1485.405
60	1483.813
61	1486.486
62	1489.693
63	1494.182
64	1494.909
65	1496.189
66	1494.033
67	1492.559
68	1494.203
69	1490.054
70	1496.903
71	1497.81
72	1499.453
73	1489.693
74	1495.29
75	1493.671
76	1494.756
77	1497.996
78	1493.84
79	1494.756
80	1492.612
81	1493.694
82	1494.414
83	1494.604
84	1487.5
85	1486.987
86	1492.666
87	1505.072
88	1503.797
89	1502.351
90	1508.197
91	1505.839
92	1497.091
93	1501.645
94	1497.81
95	1480
96	1490.58
97	1496.35
98	1486.676
99	1471.199
100	1484.892
101	1489.855
102	1489.292
103	1475.676
104	1476.695
105	1464.401
106	1458.007
107	1467.864
108	1466.786
109	1462.877
110	1462.057
111	1464.298
112	1470
113	1475.404
114	1468.817
115	1469.3
116	1468.1
117	1476.311
118	1481.95
119	1465.1
120	1490.253
121	1489.892
122	1491.501
123	1490.942
124	1487.114
125	1491.941
126	1489.706
127	1491.822
128	1490.538
129	1478.532
130	1495.926
131	1489.988
132	1494.89
133	1498.917
134	1500.527
135	1516.46
136	1538.267
137	1538.096

Cruise No: 2010804

Station: 70

Sample Type: **Trigger Weight Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Temperature (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	
5	1460.79	1463.96	12.61
15	1460.79	1463.96	12.7
25	1460.79	1459.98	12.82
35	1458.01	1459.98	12.84
45	1458.01	1459.98	12.94
55	1458.01	1456.03	13.11
65	1458.01	1459.98	13.16
75	1458.01	1459.98	13.26
85	1458.01	1467.96	13.43
95	1460.79	1467.96	13.59
105	1460.79	1467.96	13.65

Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Density

Depth (cm)	MST Bulk Density (g/cm ³)	<u>Overburden</u> <u>Pressure</u> (kPa)	Total
3	1.4666	0.130	0.13
4	1.5299	0.047	0.18
5	1.4909	0.045	0.22
6	1.4302	0.041	0.26
7	1.4074	0.038	0.30
8	1.3881	0.036	0.34
9	1.3859	0.037	0.37
10	1.4352	0.040	0.41
11	1.4818	0.042	0.46
12	1.4162	0.040	0.50
13	1.4238	0.038	0.54
14	1.3976	0.037	0.57
15	1.3942	0.038	0.61
16	1.4521	0.040	0.65
17	1.4378	0.040	0.69
18	1.4074	0.040	0.73
19	1.4739	0.042	0.77
20	1.4538	0.042	0.81
21	1.4431	0.043	0.86
22	1.4892	0.043	0.90
23	1.4404	0.042	0.94
24	1.4212	0.040	0.98
25	1.4363	0.041	1.02
26	1.4720	0.043	1.07
27	1.4578	0.039	1.10
28	1.3031	0.035	1.14
29	1.4502	0.039	1.18
30	1.4702	0.043	1.22
31	1.4565	0.043	1.26
32	1.4644	0.042	1.31
33	1.4409	0.042	1.35
34	1.4733	0.042	1.39
35	1.4395	0.040	1.43
36	1.3886	0.037	1.47
37	1.3949	0.038	1.51
38	1.4821	0.044	1.55
39	1.5132	0.046	1.60
40	1.4579	0.023	1.62

Cruise No: 2010804

Station: 6Z

Sample Type: **Push Core**

Data Type: Laboratory MST Resistivity

Depth (cm)	MST Resistivity (Ohm/m)
4	0.60
5	0.51
6	0.48
7	0.46
8	0.46
9	0.46
10	0.46
11	0.46
12	0.46
13	0.47
14	0.47
15	0.47
16	0.47
17	0.47
18	0.47
19	0.48
20	0.48
21	0.48
22	0.48
23	0.48
24	0.48
25	0.48
26	0.47
27	0.48
28	0.48
29	0.48
30	0.48
31	0.48
32	0.47
33	0.47
34	0.47
35	0.48
36	0.49
37	0.51
38	0.57

Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory MST Magnetic Susceptibility

Depth (cm)	MST Magnetic Susceptibility
3	5
4	7
5	5
6	9
7	9
8	11
9	8
10	12
11	12
12	13
13	12
14	11
15	11
16	11
17	11
18	12
19	13
20	11
21	11
22	12
23	13
24	14
25	14
26	17
27	16
28	13
29	16
30	15
31	15
32	15
33	16
34	15
35	17
36	17
37	14
38	16
39	18
40	18

Cruise No: 2010804

Station: 67

Sample Type: Push Core

Data Type: Discrete Laboratory Measurements

Depth Down Core (cm)	Bulk Density (g/cm ³)	Dry Density (g/cm ³)	Porosity (%)	Grain Density (g/cm ³)	VoidRatio	Water Con Wet (%)	Water Con Dry (%)
15	1.3942	0.6281	74.8166	2.4939	2.9709	54.9518	121.9846
35	1.4395	0.6896	73.2366	2.5765	2.7364	52.0972	108.7563

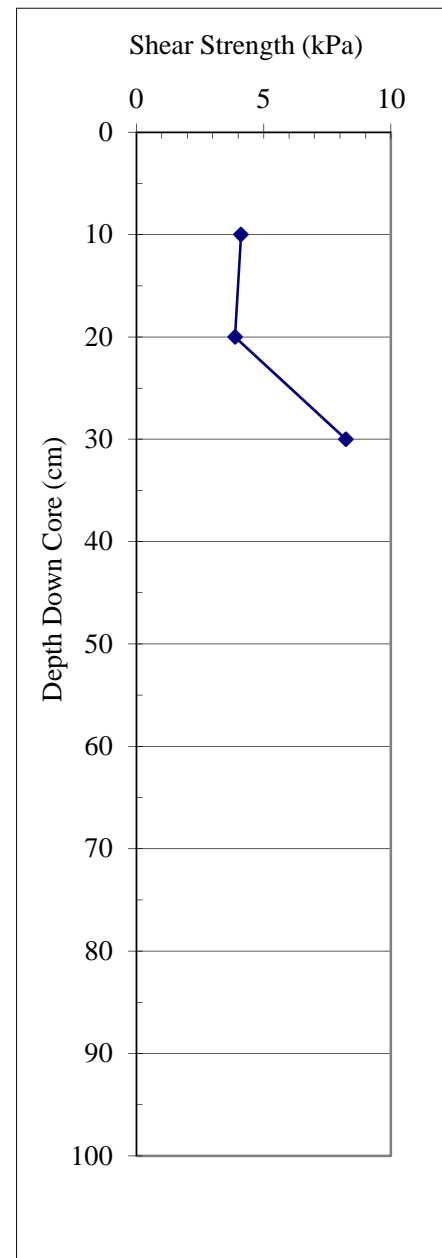
Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory Shear Vane (ASTM D 4648-94)

<u>Depth Down</u> <u>Core (cm)</u>	<u>Peak</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Remoulded</u> <u>Undrained</u> <u>Shear Shear</u> <u>(kPa)</u>	<u>Sensitivity</u>
10	4.11	1.71	
20	3.88	1.33	2.92
30	8.22	1.14	7.20



Cruise No: 2010804

Station: 67

Sample Type: Push Core

Data Type: Colour data

<u>Depth Down</u>				
<u>Core (cm)</u>	<u>A value</u>	<u>B value</u>	<u>L value</u>	<u>Munsell</u>
2	1.23	2.48	45.88	7.6 YR 4.40/0.40
3	2.2	9.45	38.78	0.8 Y 3.80/1.40
4	2.58	10.46	36.99	0.8 Y 3.60/1.60
5	2.61	10.07	37.34	0.5 Y 3.60/1.60
6	2.81	11.28	34.74	0.9 Y 3.40/1.80
7	2.06	7.24	32.75	0.4 Y 3.20/1.10
8	1.92	5.8	38.28	9.6 YR 3.70/0.90
9	1.8	7.36	29.77	1.2 Y 2.90/1.20
10	2.34	8.72	37.54	0.5 Y 3.70/1.30
11	2.33	6.81	40.04	9.3 YR 3.90/1.10
12	2.5	6.52	42.08	8.7 YR 4.10/1.00
13	2.46	7.21	35.92	9.5 YR 3.50/1.20
14	1.89	5.18	37	9.4 YR 3.60/0.90
15	2.19	5.57	38.14	9.0 YR 3.70/0.90
16	2.8	9.16	33.34	0.2 Y 3.20/1.50
17	2.74	7.67	34	9.3 YR 3.30/1.20
18	3.22	11.77	28.98	0.9 Y 2.80/2.00
19	2.35	8.71	33.2	0.3 Y 3.40/1.20
20	2.36	11.67	32.44	1.7 Y 3.20/1.90
21	0.58	7.99	34.38	3.4 Y 3.40/1.20
22	1.35	10.82	35.18	2.7 Y 3.40/1.60
23	2	12.44	32.79	2.3 Y 3.20/1.90
24	0.97	10.35	34.64	3.1 Y 3.40/1.60
25	1.59	11.65	33.42	2.6 Y 3.30/1.80
26	2.25	11.02	31.31	1.7 Y 3.10/1.80
27	1.52	7.55	30.47	1.6 Y 3.10/1.10
28	1.85	9.26	35.4	1.3 Y 3.50/1.30
29	1.52	10.64	35.86	2.3 Y 3.50/1.60
30	1.73	12.02	33.35	2.5 Y 3.30/1.90
31	1.43	9.97	36.07	2.4 Y 3.50/1.50
32	2.02	10.82	34.27	1.9 Y 3.30/1.70
33	1.58	10.44	35.09	2.3 Y 3.40/1.60
34	0.55	8.15	36.19	3.5 Y 3.50/1.20
35	2.17	10.28	37.01	1.4 Y 3.60/1.60
36	2.58	9.61	39.31	0.4 Y 3.80/1.50
37	1.59	7.15	43.15	0.7 Y 4.20/1.10
38	0.86	7.19	42.45	2.4 Y 4.10/1.10
39	0.44	9.09	36.36	3.7 Y 3.50/1.40
40	0.69	10.82	35.19	3.6 Y 3.40/1.60

Cruise No: 2010804

Station: 67

Sample Type: ***Push Core***

Data Type: Laboratory MST Velocity

Depth (cm)	MST Bulk Velocity (m/sec)
3	1542.182
4	1549.091
5	1551.885
6	1566.548
7	1566.548
8	1557.762
9	1545.357
10	1557.469
11	1560.967
12	1565.068
13	1564.906
14	1562.648
15	1559.459
16	1557.912
17	1559.259
18	1558.319
19	1553.769
20	1555.779
21	1551.84
22	1553.691
23	1554.622
24	1554.027
25	1558.389
26	1560.336
27	1555.892
28	1562.162
29	1556.229
30	1557.262
31	1555.96
32	1555.446
33	1556.106
34	1552.632
35	1548.45
36	1545.8
37	1553.355
38	1551.396
39	1544.426
40	1551.882

Cruise No: 2010804

Station: 67

Sample Type: **Push Core**

Data Type: Laboratory Discrete

Depth (cm)	Discrete	Discrete	Tempreture (C)
	Longitudinal Velocity (m/s)	Transverse Velocity (m/s)	

NA

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	17	PC13	25	0.0614	6.03	0.0476	4.66
			70	0.0991	9.72		
			85	0.0971	9.52	0.0555	5.44
			100	0.1030	10.11		
			115	0.1169	11.47	0.0377	3.69
			130	0.14266	13.99		
			145	0.0951	9.33	0.02972	2.92

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)
Nahidik82	17	PC13	18-28	52	29
			70-83	44	25
			105-118	58	28

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	17	13	Pistion	30	1.70	1.20	49.33	0.97	42.21
Nahidik82	17	13	Pistion	78	1.69	1.20	47.11	0.89	40.07
Nahidik82	17	13	Pistion	94	1.63	1.08	53.48	1.15	50.67
Nahidik82	17	13	Pistion	107	1.70	1.20	49.54	0.98	42.39
Nahidik82	17	13	Pistion	121	1.69	1.19	49.64	0.99	42.84
Nahidik82	17	13	Pistion	138	1.72	1.23	47.92	0.92	39.97

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	18	PC14	27	0.03666	3.60	0.02576	2.53
			40	0.03963	3.89		
			55	0.04359	4.28	0.02774	2.72
			70	0.04359	4.28		
			85	0.05944	5.83	0.00991	0.97
			100	0.06142	6.03		
			112	0.04755	4.66	0.03170	3.11
			130	0.05746	5.64		
			195	0.09312	9.14	0.01981	1.94
			210	0.07727	7.58		
			225	0.06737	6.61		
			240	0.06142	6.03	0.02576	2.53

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	18	PC14	20-33	89	36		
			58-71	85	37		
			96-101	85	36		
			144-154	71.1	31.5	2.77	68.3
			190-203	78	37		
			228-241	76	34		

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk	dry bulk	porosity	water content	
					density	density		void ratio	dry (%)
					(g/cm ³)	(g/cm ³)	(%)		
Nahidik82	18	14	Pistion	30	1.36	0.72	62.48	1.66	89.05
Nahidik82	18	14	Pistion	44	1.40	0.72	65.81	1.92	93.13
Nahidik82	18	14	Pistion	58	1.46	0.81	63.49	1.74	80.31
Nahidik82	18	14	Pistion	77	1.53	0.84	67.46	2.07	82.22
Nahidik82	18	14	Pistion	88	1.57	0.89	66.51	1.99	76.60
Nahidik82	18	14	Pistion	103	1.56	0.88	66.00	1.94	76.85
Nahidik82	18	14	Pistion	115	1.54	0.86	67.02	2.03	80.00
Nahidik82	18	14	Pistion	133	1.54	0.85	66.89	2.02	80.15
Nahidik82	18	14	Pistion	198	1.62	0.97	63.70	1.76	67.52
Nahidik82	18	14	Pistion	213	1.57	0.90	65.68	1.91	74.66
Nahidik82	18	14	Pistion	228	1.60	0.91	66.63	2.00	74.71
Nahidik82	18	14	Pistion	242	1.57	0.90	66.25	1.96	75.69

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	19	PC15	40	0.04554	4.47	0.03170	3.11
			50	0.05548	5.44		
			60	0.05548	5.44	0.03368	3.30
			71	0.05749	5.64		
			80	0.05944	5.83		
			90	0.04359	4.28		
			100	0.05548	5.44	0.02774	2.72
			110	0.07133	7.00		
			120	0.08322	8.16	0.04755	4.66
			130	0.08124	7.97		
			140	0.08718	8.55	0.06142	6.03
			150	0.07529	7.39		
			162	0.07331	7.19	0.02180	2.14

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	19	PC15	0-16	61.7	27.1	2.68	63.2
			16-32	68.9	27.6	2.69	64.7
			37-50	77.53	35		
			75-88	76.7	35		
			113-128	68.83	33		
			151-164	73.6	35		
			176-193	64.4	27.1	2.68	64.3

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	19	15	Pistion	35	1.48	0.85	61.57	1.60	74.18
Nahidik82	19	15	Pistion	45	1.51	0.89	60.25	1.52	69.46
Nahidik82	19	15	Pistion	55	1.50	0.89	60.35	1.52	69.74
Nahidik82	19	15	Pistion	65	1.49	0.86	61.46	1.60	73.34
Nahidik82	19	15	Pistion	75	1.50	0.89	59.85	1.49	68.76
Nahidik82	19	15	Pistion	85	1.49	0.86	61.16	1.57	72.46
Nahidik82	19	15	Pistion	95	1.53	0.93	59.04	1.44	65.03
Nahidik82	19	15	Pistion	105	1.51	0.90	59.95	1.50	68.40
Nahidik82	19	15	Pistion	115	1.53	0.93	58.53	1.41	64.26
Nahidik82	19	15	Pistion	125	1.52	0.92	58.74	1.42	65.21
Nahidik82	19	15	Pistion	135	1.51	0.89	60.55	1.54	69.89
Nahidik82	19	15	Pistion	145	1.50	0.88	60.45	1.53	70.19
Nahidik82	19	15	Pistion	155	1.53	0.93	58.63	1.42	64.52
Nahidik82	19	15	Pistion	165	1.55	0.96	57.32	1.34	61.23

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	19	PC16	6	0.04161	4.08		
			16	0.03765	3.69	0.02774	2.72
			122	0.05746	5.64	0.05350	5.25
			132	0.06340	6.22		
			142	0.06935	6.80	0.03566	3.50
			152	0.07529	7.39		
			162	0.06340	6.22	0.05746	5.64
			172	0.06737	6.61		
			182	0.07529	7.39	0.03566	3.50
			192	0.07331	7.19		
			204	0.06539	6.41	0.02378	2.33

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)	Complied						
								Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)		
Nahidik82	19	PC16	5-18	77	37			5-18	77	37				
			32-42	67	36			31-41	62.5	27.9	2.7	60.2		
			51-61	61	30			32-42	67	36				
			71-81	54.4	30			47-57	68.2	26.6	2.69	66.8		
			88-98	75	35			51-61	61	30				
			99-112	69	35			66-76	68.5	28.2	2.67	83.1		
			120-130	83	37			71-81	54.4	30				
			155-165	73	33			84-94	72.1	27.6	2.71	70.1		
			190-200	62	29			88-98	75	35				
								94-116	67.3	27.8	2.66	65.5		
								99-112	69	35				
						31-41	62.5	27.9	2.7	60.2	120-130	83	37	
						47-57	68.2	26.6	2.69	66.8	155-165	73	33	
						66-76	68.5	28.2	2.67	83.1	190-200	62	29	
						84-94	72.1	27.6	2.71	70.1				
						94-116	67.3	27.8	2.66	65.5				

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	19	16	Pistion	9	1.49	0.85	62.48	1.66	75.64
Nahidik82	19	16	Pistion	19	1.44	0.79	63.39	1.73	81.85
Nahidik82	19	16	Pistion	127	1.54	0.93	59.34	1.46	65.22
Nahidik82	19	16	Pistion	134	1.50	0.89	60.15	1.51	69.59
Nahidik82	19	16	Pistion	144	1.50	0.88	59.95	1.50	69.52
Nahidik82	19	16	Pistion	154	1.54	0.95	58.33	1.40	63.06
Nahidik82	19	16	Pistion	164	1.50	0.88	60.45	1.53	70.52
Nahidik82	19	16	Pistion	174	1.51	0.91	59.14	1.45	66.86
Nahidik82	19	16	Pistion	184	1.53	0.93	58.74	1.42	64.56
Nahidik82	19	16	Pistion	194					71.85
Nahidik82	19	16	Pistion	206	1.51	0.90	59.65	1.48	67.89

The volume for the constant volume sampler was unknow

n

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	4	PC02	10	5.70	0.0337	3.30
			25	7.60		
			40	8.90	0.051515	5.05
			55	9.90		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)
Nahidik82	4	GC05	5-18	62	31
			43-56	60	30

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	2	5	Gravity	12	1.66	1.03	61.41	1.59	60.78
Nahidik82	2	5	Gravity	28	1.66	1.03	61.60	1.60	61.44
Nahidik82	2	5	Gravity	43	1.71	1.11	58.73	1.42	54.30
Nahidik82	2	5	Gravity	67	1.71	1.13	57.33	1.34	52.08

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	20	PC17	25	0.04062	3.98	0.01585	1.55
			45	0.04557	4.47		
			57	0.04954	4.86	1.02774	100.82
			70	0.05548	5.44		
			115	0.05449	5.35	0.04557	4.47
			130	0.05350	5.25		
			145	0.05746	5.64	0.05112	5.01
			160	0.05944	5.83		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)	Compiled				
								Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	20	PC17	110-120	87	37			0-17	72.7	30.9	2.73	76.2
			145-155	88	37			90-107	72.1	29.6	2.7	79.8
								110-120	87	37		
								145-155	88	37		
								173-190	72.5	29	2.73	72.4
			0-17	72.7	30.9	2.73	76.2					
			90-107	72.1	29.6	2.7	79.8					
			173-190	72.5	29	2.73	72.4					

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	19	17	Pistion	22	1.44	0.77	65.41	1.89	87.20
Nahidik82	19	17	Pistion	48	1.42	0.74	66.32	1.97	91.88
Nahidik82	19	17	Pistion	60	1.44	0.78	64.50	1.82	84.39
Nahidik82	19	17	Pistion	72	1.45	0.77	66.62	2.00	89.17
Nahidik82	19	17	Pistion	118	1.27	0.71	54.69	1.21	79.09
Nahidik82	19	17	Pistion	125	1.45	0.79	64.50	1.82	83.84
Nahidik82	19	17	Pistion	133	1.45	0.80	63.59	1.75	81.37
Nahidik82	19	17	Pistion	149	1.46	0.81	63.49	1.74	80.20
Nahidik82	19	17	Pistion	168	1.41	0.74	65.00	1.86	89.93

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kPa)	Remoulded Undained SS (kPa)
Nahidik82	21	PC18	10	5.40	0.70
			25	1.90	
			40	1.10	0.80

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	21	PC18			None Taken		

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	21	18	Pistion	15	1.67	1.13	52.87	1.12	47.89
Nahidik82	21	18	Pistion	30	1.56	1.05	49.03	0.96	47.60
Nahidik82	21	18	Pistion	43	1.55	1.08	45.90	0.85	43.44

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kPa)	Remoulded Undained SS (kPa)
Nahidik82	22	PC19	8	8.60	4.10
			10	6.70	
			22	12.10	
			25	8.70	2.70
			33	10.20	6.70
			40	9.10	
			60	12.80	
			75	8.10	3.4
			116	9.40	

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	22	PC19	10-25	56	23.3	2.67	17.6
			21-34	45.1	20.7	2.65	32.5
			65-80	42.5	20.1	2.65	28.4

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)	
Nahidik82	22	19	Pistion	10	1.81	1.38	42.05	0.73	31.23	
Nahidik82	22	19	Pistion	19	1.75	1.26	47.72	0.91	38.75	
Nahidik82	22	19	Pistion	34	1.74	1.25	47.62	0.91	39.02	
Nahidik82	22	19	Pistion	70	1.80	1.34	44.48	0.80	33.90	
Nahidik82	22	19	Pistion	84	1.69	1.23	44.78	0.81	37.35	
Nahidik82	22	19	Pistion	107	1.82	1.47	33.66	0.51	23.38	
Nahidik82	22	19	Pistion	190??	1.55	0.95	58.53	1.41	62.80	Listed as 190cm in black notebook but ED says that core is 150 cm long,

nothing on deck sheets

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	23	PC21	15	0.05565	5.46	0.04161	4.08
			30	0.07133	7.00		
			45	0.06538	6.41		
			60	0.07529	7.39	0.04557	4.47
			68	0.08320	8.16		
			83	0.08916	8.75	0.06340	6.22
			98	0.08520	8.36		
			113	0.09312	9.14	0.04359	4.28
			132	0.09	8.94		
			155	0.10	9.43	0.063403	6.22
			170	0.07	6.61		
			185	0.08	8.26	0.066375	6.51
			203	0.11	11.27		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)	Li	Depth for W (%)	W (%)
Nahidik82	23	PC21	5-15	61	32		69.49	1.29	12	69.49
			40-50	38	23		68.05	3.00	34	66.27
			75-85	39.9	24		64.77	2.56	49	69.83
			110-120	85	35		59.05	0.48	64	64.86
			150-160	64	24		62.63	0.97	86	64.68
			185-195	75.3	35		60.24	0.63	102	57.85
									116	59.05
									136	60.49
									162	62.63
									173	61.82
									197	60.24

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	23	21	Pistion	12	1.62	0.95	64.72	1.83	69.49
Nahidik82	23	21	Pistion	34	1.62	0.97	63.07	1.71	66.27
Nahidik82	23	21	Pistion	49	1.62	0.96	65.17	1.87	69.83
Nahidik82	23	21	Pistion	64	1.63	0.99	62.68	1.68	64.86
Nahidik82	23	21	Pistion	86	1.64	1.00	62.87	1.69	64.68
Nahidik82	23	21	Pistion	102	1.67	1.06	59.63	1.48	57.85
Nahidik82	23	21	Pistion	116	1.66	1.05	60.26	1.52	59.05
Nahidik82	23	21	Pistion	136	1.67	1.04	61.35	1.59	60.49
Nahidik82	23	21	Pistion	162	1.65	1.02	62.24	1.65	62.63
Nahidik82	23	21	Pistion	173	1.66	1.03	61.98	1.63	61.82
Nahidik82	23	21	Pistion	197	1.66	1.04	61.09	1.57	60.24

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kPa)	Remoulded Undained SS (kPa)	Sensitivity
Nahidik82	24	GC10	8	1.70		
			33	1.40		
			98	2.70		
			113	2.40	1.00	2.40
			128	1.40		
			192	5.70		
			209	4.40	1.40	3.14
			224	2.70		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	24	GC10	42-49	65.7	30.7	2.7	82.5
			59-76	66.5	31.4	2.7	74.6
			138-150	67.1	31.0	2.7	75.9
			225-237	68.6	31.1	2.7	72.9
			230-234	78	36.7	2.53	72.7

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	24	10	Gravity	15	1.42	0.76	65.10	1.87	88.22
Nahidik82	24	10	Gravity	30	1.38	0.69	66.92	2.02	99.10
Nahidik82	24	10	Gravity	90	1.42	0.77	64.19	1.79	85.70
Nahidik82	24	10	Gravity	105	1.46	0.83	62.17	1.64	76.88
Nahidik82	24	10	Gravity	120	1.43	0.77	64.60	1.82	86.47
Nahidik82	24	10	Gravity	130	1.40	0.73	64.80	1.84	90.66
Nahidik82	24	10	Gravity	194	1.43	0.79	62.68	1.68	81.15
Nahidik82	24	10	Gravity	227	1.43	0.78	63.79	1.76	83.69

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)	Sensitivity
Nahidik82	24	PC22	52	0.04755	4.66	0.03170	3.11	1.50
			85	0.05647	5.54			
			100	0.04953	4.86	0.02675	2.62	1.85
			115	0.06737	6.61			
			132	0.06340	6.22	0.02576	2.53	2.46
			145	0.07034	6.90			
			200	0.09907	9.72	0.06538	6.41	1.52
			230	0.08718	8.55			
			245	0.08520	8.36	0.03566	3.50	2.39
			260	0.08916	8.75			

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)	Li	Depth for W (%)	W (%)
Nahidik82	24	PC22	19-32	92	38				54.0	90.62
			19-32	89	35				88.0	91.45
			80-90	87.7	37		91.45	1.07	103.0	81.47
			115-125	63	33		80.39	1.58	118.0	80.39
			180-190	85.5	34		74.79	0.79	134.0	82.01
			215-225	86	37		75.90	0.79	147.0	81.46
									203.0	74.79
									233.0	75.90
									248.0	74.95
									263.0	65.62

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	24	22	Pistion	54.0	1.50	0.79	69.56	2.29	90.62
Nahidik82	24	22	Pistion	88.0	1.50	0.79	70.14	2.35	91.45
Nahidik82	24	22	Pistion	103.0	1.53	0.84	67.21	2.05	81.47
Nahidik82	24	22	Pistion	118.0	1.56	0.86	67.91	2.12	80.39
Nahidik82	24	22	Pistion	134.0	1.54	0.85	67.97	2.12	82.01
Nahidik82	24	22	Pistion	147.0	1.54	0.85	67.72	2.10	81.46
Nahidik82	24	22	Pistion	203.0	1.59	0.91	66.51	1.99	74.79
Nahidik82	24	22	Pistion	233.0	1.59	0.90	67.02	2.03	75.90
Nahidik82	24	22	Pistion	248.0	1.59	0.91	66.51	1.99	74.95
Nahidik82	24	22	Pistion	263.0	1.58	0.95	61.15	1.57	65.62

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)	Sensitivity
Nahidik82	25	PC23	8	0.03765	3.69	0.02972	2.92	1.27
			18	0.03566	3.50	0.01189	1.17	3.00

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	25	23	Pistion	6	1.51	0.81	68.54	2.18	86.63
Nahidik82	25	23	Pistion	23	1.45	0.72	71.35	2.49	102.10

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	26	PC24	10	0.05850	5.74	0.01981	1.94
			25	0.06241	6.12		
			40	0.06538	6.41	0.04161	4.08
			50	0.06638	6.51		
			75	0.13869	13.61	0.06935	6.80
			80	0.13275	13.02		
			85	0.09808	9.62	0.11987	11.76

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	26	PC24	0-17	70.1	30.9	2.65	74.1
			5-15	70	34		
			40-50	77	72		
			54-76	73.2	30.7	2.7	80.1
			75-85	72	37		
			150-167	71	29.9	2.75	77.2

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	26	24	Pistion	14	1.56	0.90	65.17	1.87	74.45
Nahidik82	26	24	Pistion	28	1.58	0.92	64.59	1.82	71.76
Nahidik82	26	24	Pistion	43	1.57	0.99	56.70	1.31	58.48
Nahidik82	26	24	Pistion	52	1.63	0.98	63.58	1.75	66.67
Nahidik82	26	24	Pistion	72	1.78	1.21	55.29	1.24	46.64
Nahidik82	26	24	Pistion	83	1.77	1.19	56.19	1.28	48.22

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	3	GC06	7	0.0674	6.61	0.0317	3.11
			20	0.0961	9.43		
			35	0.1337	13.12	0.0357	3.50

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)
Nahidik82	3	GC06	5-14	80	34

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	3	6	Gravity	13	1.62	0.98	63.38	1.73	66.56
Nahidik82	3	6	Gravity	23	1.68	1.06	60.45	1.53	58.54
Nahidik82	3	6	Gravity	39	1.71	1.11	58.42	1.40	53.91

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	31	PC28	20	0.06340	6.22		
			35	0.05746	5.64	0.02873	2.82
			50	0.04953	4.86		
			60	0.05548	5.44	0.02576	2.53
			82	0.04161	4.08		
			95	0.06538	6.41	0.00396	0.39
			110	0.06737	6.61		
			125	0.06935	6.80	0.02774	2.72
			140	0.05647	5.54		
			177	0.07133	7.00	0.02972	2.92
			192	0.07232	7.09		
			207	0.07232	7.09	0.05052	4.96
			222	0.08223	8.07		
			237	0.07826	7.68	0.0515152	5.05
			252	0.0822	8.07		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik82	31	PC28	20-30	131.6			
			55	148.0			
			90-100	120.0			
			125-135	101.6			
			140-150	102.0	44.1	2.5	103.3
			170-180	112.0			
			205-215	104.0			
			240-250	106.5			

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	31	28	Pistion	24	1.36	0.59	74.72	2.96	129.04
Nahidik82	31	28	Pistion	39	1.37	0.60	74.98	3.00	127.93
Nahidik82	31	28	Pistion	50	1.33	0.54	77.78	3.50	148.54
Nahidik82	31	28	Pistion	59	1.31	0.50	79.06	3.77	160.34
Nahidik82	31	28	Pistion	86	1.39	0.62	75.36	3.06	124.66
Nahidik82	31	28	Pistion	99	1.43	0.68	73.77	2.81	111.78
Nahidik82	31	28	Pistion	113	1.43	0.68	73.64	2.79	111.26
Nahidik82	31	28	Pistion	129	1.44	0.69	72.62	2.65	107.55
Nahidik82	31	28	Pistion	144	1.43	0.66	74.79	2.97	115.67
Nahidik82	31	28	Pistion	179	1.44	0.68	74.02	2.85	111.52
Nahidik82	31	28	Pistion	195	1.45	0.70	73.58	2.78	107.74
Nahidik82	31	28	Pistion	210	1.44	0.69	73.39	2.76	108.78
Nahidik82	31	28	Pistion	224	1.49	0.76	71.28	2.48	96.13
Nahidik82	31	28	Pistion	240	1.50	0.77	71.16	2.47	94.90
Nahidik82	31	28	Pistion	255	1.47	0.72	73.07	2.71	103.89

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kg/cm3)	Peak Undained SS (kPa)	Remolded Undained SS (kg/cm3)	Remoulded Undained SS (kPa)
Nahidik82	4	PC02	10	0.0614	6.03	0.0337	3.30
			51	0.0674	6.61		
			66	0.0436	4.28	0.01783	1.75
			81	0.0476	4.66		
			105	0.0535	5.25	0.03269	3.21
			120	0.0456	4.47		
			135	0.0436	4.28	0.01585	1.55
			155	0.0515	5.05		
			165	0.0416	4.08	0.01595	1.56
			180	0.0495	4.86		

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)
Nahidik82	4	PC02	5-18	82	35
			43-56	95	40
			80-90	85	36
			115-128	87	39
			153-166	68	36

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik82	4	2	Pistion	8	1.47	0.83	61.97	1.63	76.24
Nahidik82	4	2	Pistion	46	1.38	0.71	65.21	1.87	94.30
Nahidik82	4	2	Pistion	63	1.40	0.72	66.42	1.98	94.40
Nahidik82	4	2	Pistion	78	1.41	0.76	63.99	1.78	86.48
Nahidik82	4	2	Pistion	102	1.28	0.60	66.42	1.98	112.89
Nahidik82	4	2	Pistion	109	1.58	0.75	80.77	4.20	109.75
Nahidik82	4	2	Pistion	123	1.58	0.75	81.08	4.28	110.93
Nahidik82	4	2	Pistion	137	1.59	0.77	80.07	4.02	106.88
Nahidik82	4	2	Pistion	157	1.61	0.80	79.16	3.80	101.82
Nahidik82	4	2	Pistion	168	1.61	0.80	78.95	3.75	100.90
Nahidik82	4	2	Pistion	188	1.61	0.81	78.04	3.55	98.60

Laboratory mini-vane

Cruise	Station	Core Number	Depth (cm)	Peak Undained SS (kPa)	Remoulded Undained SS (kPa)	Sensitivity
Nahidik82	6	GC07	115	8.20		
			130	8.10	3.40	2.38
			145	6.70		
			160	8.10	2.00	4.05

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik83	9	PC09	0-15	85.0	16.0	2.6	73.3
			45-60	80.4	27.0	2.5	65.5
			90-102	70.0	28.3	2.6	68.5
			122-137	64.2	25.7	2.5	55.8
			167-182	63.2	22.5	2.6	52.2

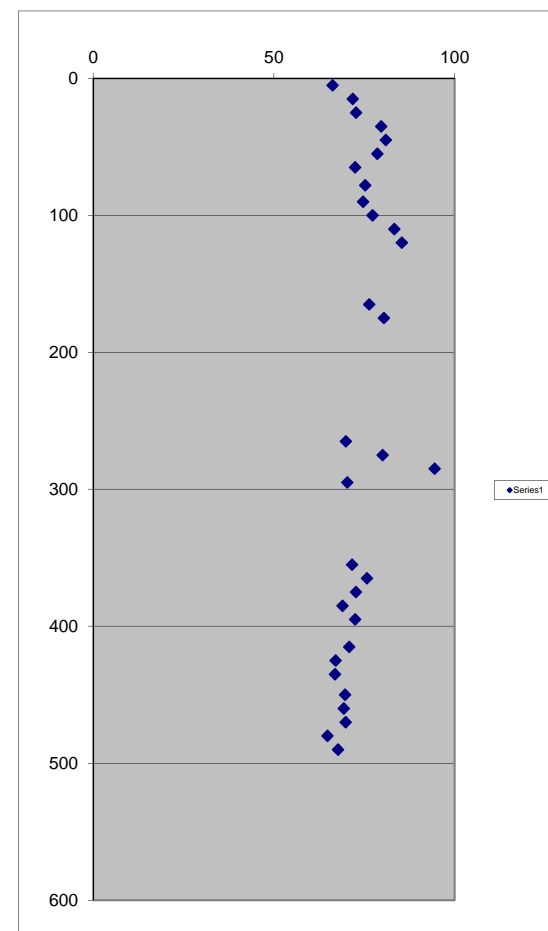
Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik83	09	09	Pistion	5	1.04	0.56	46.84	0.88	84.89
Nahidik83	09	09	Pistion	15	1.50	0.80	68.22	2.15	86.89
Nahidik83	09	09	Pistion	25	1.51	0.86	62.84	1.69	74.67
Nahidik83	09	09	Pistion	35	1.54	0.93	59.92	1.50	66.01
Nahidik83	09	09	Pistion	45	1.51	0.87	61.89	1.62	72.60
Nahidik83	09	09	Pistion	55	1.49	0.84	63.42	1.73	77.00
Nahidik83	09	09	Pistion	65	1.50	0.86	62.46	1.66	74.56
Nahidik83	09	09	Pistion	75	1.54	0.92	60.89	1.56	67.86
Nahidik83	09	09	Pistion	85	1.49	0.84	63.19	1.72	76.91
Nahidik83	09	09	Pistion	95	1.52	0.90	60.80	1.55	69.03
Nahidik83	09	09	Pistion	135	1.53	0.91	60.18	1.51	67.62
Nahidik83	09	09	Pistion	145	1.54	0.93	59.71	1.48	65.84
Nahidik83	09	09	Pistion	155	1.53	0.93	59.47	1.47	65.83
Nahidik83	09	09	Pistion	165	1.65	1.11	53.14	1.13	49.08
Nahidik83	09	09	Pistion	175	1.64	1.09	54.26	1.19	51.05
Nahidik83	09	09	Pistion	185	1.62	1.05	56.00	1.27	54.74
Nahidik83	09	09	Pistion	195	1.44	0.79	63.44	1.74	82.00

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik83	10	PC10	0-15	65.4	26.5	2.5	51.1
			45-60	72.0	28.0	2.5	56.6
			100-115	72.4	25.4	2.5	59.9
			145-160	79.7	28.0	2.5	68.5

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik83	10	10	Pistion	15	1.51	0.89	60.72	1.55	69.70
Nahidik83	10	10	Pistion	25	1.51	0.88	61.57	1.60	71.99
Nahidik83	10	10	Pistion	36	1.50	0.87	61.61	1.61	72.51
Nahidik83	10	10	Pistion	45	1.47	0.83	62.60	1.67	76.98
Nahidik83	10	10	Pistion	55	1.49	0.85	61.79	1.62	74.12
Nahidik83	10	10	Pistion	65	1.50	0.87	61.36	1.59	72.18
Nahidik83	10	10	Pistion	75	1.48	0.85	62.04	1.63	75.17
Nahidik83	10	10	Pistion	85	1.46	0.81	63.97	1.78	81.34
Nahidik83	10	10	Pistion	105	1.47	0.81	63.82	1.76	80.51
Nahidik83	10	10	Pistion	115	1.42	0.78	62.79	1.69	82.52
Nahidik83	10	10	Pistion	125	1.54	0.94	59.08	1.44	64.39
Nahidik83	10	10	Pistion	135	1.43	0.77	64.79	1.84	86.23
Nahidik83	10	10	Pistion	145	1.40	0.72	65.90	1.93	93.12
Nahidik83	10	10	Pistion	156	1.46	0.80	65.05	1.86	83.74
Nahidik83	10	10	Pistion	175	1.83	1.46	36.81	0.58	25.85
Nahidik83	10	10	Pistion	185	1.67	1.16	49.97	1.00	44.04
Nahidik83	10	10	Pistion	195	1.86	1.47	37.61	0.60	26.17

Cruise	Station	Core Number	Depth (cm)	Liquid Limit (%)	Plastic Limit (%)	Gs	W (%)
Nahidik83	12	PC12	0-15	73.3	28.6	2.6	59.7
			45-60	76.0	28.9	2.5	63.0
			90-105	78.7	27.9	2.6	64.5
			165-180	70.0	30.1	2.6	69.4
			255-270	76.7	29.2	2.6	59.4
			350-365	79.0	28.5	2.5	65.8
			415-430	70.0	28.2	2.6	54.0
			460-475	70.0	32.0	2.5	55.6

Cruise	Stat #	Core #	Type	Depth (cm)	wet bulk density (g/cm ³)	dry bulk density (g/cm ³)	porosity (%)	void ratio	water content dry (%)
Nahidik83	12	12	Pistion	5	1.53	0.92	59.42	1.46	66.24
Nahidik83	12	12	Pistion	15	1.50	0.87	61.25	1.58	71.82
Nahidik83	12	12	Pistion	25	1.49	0.86	61.30	1.58	72.75
Nahidik83	12	12	Pistion	35	1.47	0.82	63.83	1.76	79.66
Nahidik83	12	12	Pistion	45	1.46	0.81	63.74	1.76	80.96
Nahidik83	12	12	Pistion	55	1.48	0.83	63.71	1.76	78.63
Nahidik83	12	12	Pistion	65	1.50	0.87	61.75	1.61	72.48
Nahidik83	12	12	Pistion	78	1.50	0.86	62.84	1.69	75.24
Nahidik83	12	12	Pistion	90	1.48	0.85	61.86	1.62	74.66
Nahidik83	12	12	Pistion	100	1.49	0.84	63.25	1.72	77.30
Nahidik83	12	12	Pistion	110	1.45	0.79	64.56	1.82	83.33
Nahidik83	12	12	Pistion	120	1.44	0.78	64.94	1.85	85.38
Nahidik83	12	12	Pistion	165	1.48	0.84	62.61	1.67	76.35
Nahidik83	12	12	Pistion	175	1.45	0.81	63.31	1.73	80.43
Nahidik83	12	12	Pistion	265	1.51	0.89	60.63	1.54	69.90
Nahidik83	12	12	Pistion	275	1.61	0.90	70.02	2.34	80.07
Nahidik83	12	12	Pistion	285	1.72	0.88	81.47	4.40	94.44
Nahidik83	12	12	Pistion	295	1.51	0.89	60.78	1.55	70.31
Nahidik83	12	12	Pistion	355	1.12	0.66	45.84	0.85	71.62
Nahidik83	12	12	Pistion	365	1.48	0.84	62.10	1.64	75.72
Nahidik83	12	12	Pistion	375	1.50	0.87	61.64	1.61	72.69
Nahidik83	12	12	Pistion	385	1.52	0.90	60.67	1.54	68.95
Nahidik83	12	12	Pistion	395	1.50	0.87	61.49	1.60	72.45
Nahidik83	12	12	Pistion	415	1.51	0.88	60.98	1.56	70.84
Nahidik83	12	12	Pistion	425	1.53	0.91	59.91	1.49	67.07
Nahidik83	12	12	Pistion	435	1.53	0.92	60.04	1.50	66.87
Nahidik83	12	12	Pistion	450	1.52	0.90	60.98	1.56	69.67
Nahidik83	12	12	Pistion	460	1.51	0.89	60.24	1.51	69.31
Nahidik83	12	12	Pistion	470	1.51	0.89	60.78	1.55	69.84
Nahidik83	12	12	Pistion	480	1.54	0.93	59.15	1.45	64.80
Nahidik83	12	12	Pistion	490	1.52	0.91	59.93	1.50	67.73



CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2008802 0039A Push Core 15-17 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
January 2009**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20088020039A Push Core. The coordinates of the sample site are latitude 70.883289° and longitude -134.769819° and the water depth is 104.8 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system is a GeoTest back pressured system consisting of a consolidometer, linear displacement transducer, two digiquartz pressure transducers for measuring back and loading pressures and a DAQ system.

3 TEST PROCEDURE

A sample was taken at a core depth of 15 cm. A thin-walled sampling tube (4 cm long, 6.25 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 1.86 cm and transferred to the consolidation ring. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 200 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 15 loading increments increasing from 1.7 kPa to 1022.7 kPa. Once the VCL was defined the sample was unloaded to 5.1 kPa in 7 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey lean (CL) clay with numerous 5 mm clasts. The sample had an initial void ratio of 1.35, an initial water content of 44.68% and an initial unit weight of 16.76 kN/m³. C_v values ranged from 0.017 to 0.058 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.34 and 0.06 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 16.0 kPa to 18.5 kPa resulting in an OCR value ranging from 15.9 to 18.4. Casagrande's method produced a P'_c of 16.0 kPa with a corresponding OCR value of 15.9. The effective overburden was calculated as 1.0 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 5.89⁻⁸ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2008802 0039A Push Core, 15-17 cm.

Cruise ID:	<u>2008802</u>		
Borehole/Core:	<u>0039A</u>		
Depth (cm):	<u>15-17cm</u>		
Date:	<u>31-Jan-09</u>		
	<u>Dark Olive grey clay</u>		
Description of Sample:	<u>numerous clasts</u>		
Condition of Sample:	<u>Very Good</u>		
Test Type:	<u>ASTM 2435 Double Drainage</u>		
Water Content W_c (%):	<u>44.68</u>	C_c :	<u>0.340</u>
Specific Gravity (measured):	<u>2.71</u>	C_r :	<u>0.056</u>
Bulk Density ρ_w (g/cm ³):	<u>1.71</u>	P'_o :	<u>1.01</u>
Unit Weight γ_w (kN/m ³):	<u>16.76</u>	C_{ce}	<u>0.145</u>
Dry Density ρ_d (g/cm ³):	<u>1.18</u>	P'_c	OCR
Void Ratio:	<u>1.35</u>	Cass	<u>16.0</u> <u>15.9</u>
Porosity (%):	<u>57.44</u>	Work	<u>17.0</u> <u>16.9</u>
Back Pressure (kPa):	<u>200.0</u>	Silva	<u>18.5</u> <u>18.4</u>
Calculated k_{P_c} void ratio (m/sec):	<u>5.89E-08</u>	Prob	<u>14.5</u> <u>14.4</u>
Liquid Limit (%):	<u>48.34</u>	Min	<u>10.0</u> <u>9.9</u>
Plastic Limit (%):	<u>26.19</u>	Max	<u>60.0</u> <u>59.5</u>
Plasticity Index (%):	<u>22.15</u>	Avg	<u>17.2</u> <u>17.0</u>
Liquidity Index:	<u>0.83</u>		
Classification:	<u>CL</u>		
Sand (%):	<u>Na</u>		
Silt(%):	<u>Na</u>		
Clay(%):	<u>Na</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2008802 0039A Push Core, 15-17 cm.

Effective Stress (kPa)	H_{end} (cm)	Void Ratio_{end}	C_v (cm²/min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	1.862	1.349			
1.74	1.862	1.349			
4.12	1.856	1.342			
5.27	1.850	1.334			
9.98	1.831	1.310	1.02E-01	2.18E-03	3.64E-07
14.28	1.804	1.276	3.70E-02	2.65E-03	1.60E-07
23.82	1.754	1.214	2.27E-02	1.50E-03	5.59E-08
35.07	1.716	1.166	1.76E-02	1.42E-03	4.08E-08
54.18	1.675	1.114	1.74E-02	1.03E-03	2.95E-08
78.54	1.637	1.065	1.94E-02	7.93E-04	2.51E-08
119.31	1.593	1.010	2.62E-02	4.94E-04	2.12E-08
177.43	1.545	0.949	2.74E-02	4.14E-04	1.86E-08
267.62	1.499	0.892	3.56E-02	2.38E-04	1.38E-08
453.25	1.435	0.810	3.91E-02	1.89E-04	1.21E-08
681.63	1.386	0.749	3.84E-02	1.10E-04	6.87E-09
1022.68	1.340	0.690	5.77E-02	9.88E-05	9.31E-09
684.68	1.350	0.693			
270.85	1.343	0.727			
121.63	1.365	0.727			
60.17	1.402	0.753			
36.46	1.676	0.773			
13.24	1.418	0.793			
5.07	1.437	0.812			

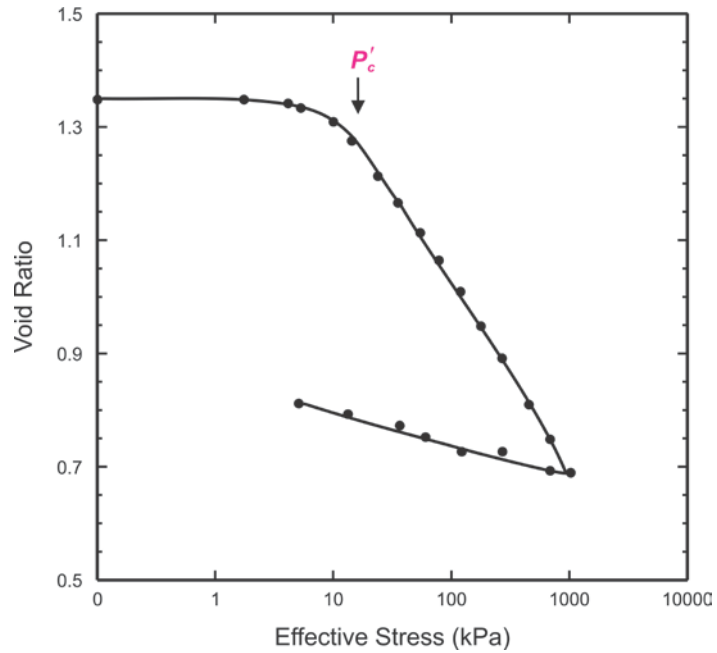


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2008802 0039A Push Core, 15-17 cm.

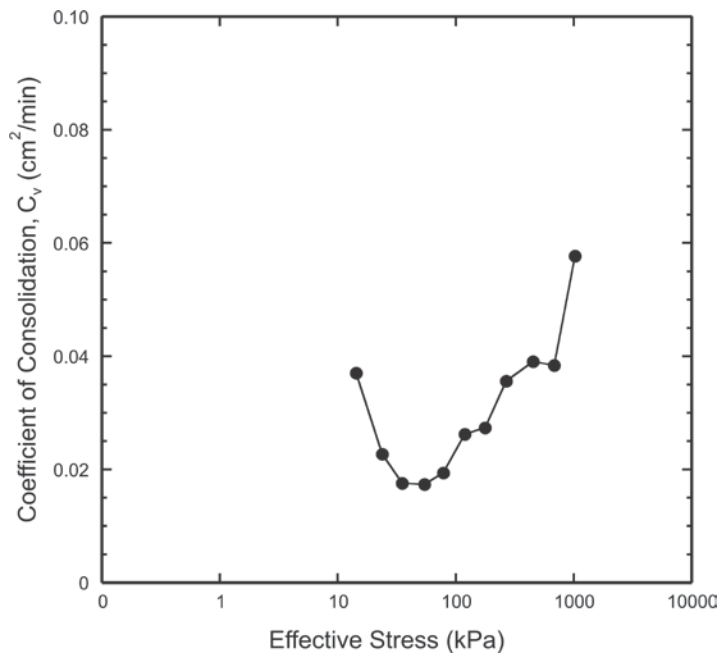


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2008802 0039A Push Core, 15-17 cm.

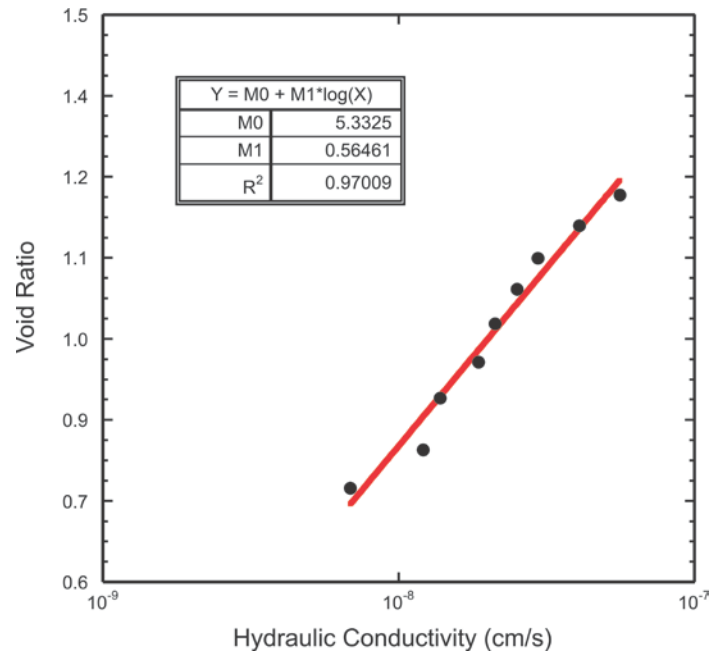


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2008802 0039A Push Core, 15-17 cm.

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

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CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2008802 0044A Push Core 10-12.5 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
July 2009**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20088020044A Push Core. The coordinates of the sample site are latitude 70.912794° and longitude -134.824544° and the water depth is 194.2 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system is a GeoTest back pressured system consisting of a consolidometer, linear displacement transducer, two digiquartz pressure transducers for measuring back and loading pressures and a DAQ system.

3 TEST PROCEDURE

A sample was taken at a core depth of 10 cm. A thin-walled sampling tube (4 cm long, 6.25 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 2.46 cm and transferred to the consolidation ring. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 200 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 14 loading increments increasing from 2.0 kPa to 957.1 kPa. Once the VCL was defined the sample was unloaded to 3.3 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is dark olive grey fat (CH) clay. The sample had an initial void ratio of 1.94, an initial water content of 72.74% and an initial unit weight of 15.75 kN/m³. C_v values ranged from 0.012 to 0.044 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.47 and 0.05 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 14.5 kPa to 17.5 kPa resulting in an OCR value ranging from 25.4 to 30.7. Casagrande's method produced a P'_c of 17.5 kPa with a corresponding OCR value of 30.7. The effective overburden was calculated as 0.57 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 1.27⁻⁷ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2008802 0044A Push Core, 10-12.5 cm.

Cruise ID:	<u>2008802</u>		
Borehole/Core:	<u>0044A</u>		
Depth (cm):	<u>10-15</u>		
Date:	<u>30-Jul-09</u>		
Description of Sample:	<u>Dark Olive Grey Clay</u>		
Condition of Sample:	<u>V. good</u>		
Test Type:	<u>ASTM 2435 Double Drainage</u>		
Water Content W_c (%):	<u>72.74</u>	C_c :	<u>0.469</u>
Specific Gravity (measured):	<u>2.71</u>	C_r :	<u>0.053</u>
Bulk Density ρ_w (g/cm ³):	<u>1.61</u>	P'_o :	<u>0.57</u>
Unit Weight γ_w (kN/m ³):	<u>15.75</u>	C_{ce}	<u>0.160</u>
Dry Density ρ_d (g/cm ³):	<u>0.94</u>	P'_c	OCR
Void Ratio:	<u>1.94</u>	Cass	<u>17.5</u> <u>30.7</u>
Porosity (%):	<u>65.97</u>	Work	<u>14.5</u> <u>25.4</u>
Back Pressure (kPa):	<u>200.0</u>	Silva	<u>16.0</u> <u>28.1</u>
Calculated $k_{P_c \text{ void ratio}}$ (m/sec):	<u>1.27E-07</u>	Prob	<u>12.9</u> <u>22.6</u>
Liquid Limit (%):	<u>63.10</u>	Min	<u>6.6</u> <u>11.6</u>
Plastic Limit (%):	<u>27.47</u>	Max	<u>47.9</u> <u>83.9</u>
Plasticity Index (%):	<u>35.63</u>	Avg	<u>16.0</u> <u>28.1</u>
Liquidity Index:	<u>1.27</u>		
Classification:	<u>CH</u>		
Sand (%):	<u>Na</u>		
Silt(%):	<u>Na</u>		
Clay(%):	<u>Na</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2008802 0044A Push Core, 10-12.5 cm.

Effective Stress (kPa)	H _{end} (cm)	Void Ratio _{end}	C _v (cm ² /min)	M _v (per kPa)	Calculated K (cm/sec)
0.10	2.46	1.835			
1.96	2.34	1.815			
3.89	2.35	1.807			
6.59	2.34	1.789			
9.42	2.32	1.770	3.42E-02	3.18E-03	1.77E-07
14.46	2.29	1.733	1.61E-02	2.21E-03	5.82E-08
21.46	2.25	1.682	1.68E-02	2.39E-03	6.58E-08
32.47	2.19	1.617	1.76E-02	1.97E-03	5.67E-08
47.85	2.13	1.538	3.31E-02	1.67E-03	9.04E-08
71.89	2.05	1.443	2.50E-02	1.29E-03	5.29E-08
107.53	1.98	1.359	1.24E-02	8.27E-04	1.67E-08
161.00	1.89	1.254	2.90E-02	6.49E-04	3.07E-08
242.23	1.81	1.182	3.32E-02	3.95E-04	2.14E-08
478.54	1.67	1.029	2.10E-02	2.96E-04	1.02E-08
957.10	1.55	0.914	4.42E-02	1.19E-04	8.59E-09
483.06	1.53	0.920			
163.96	1.56	0.955			
73.01	1.60	0.985			
33.04	1.62	1.015			
9.66	1.89	1.026			
3.25	1.67	1.045			

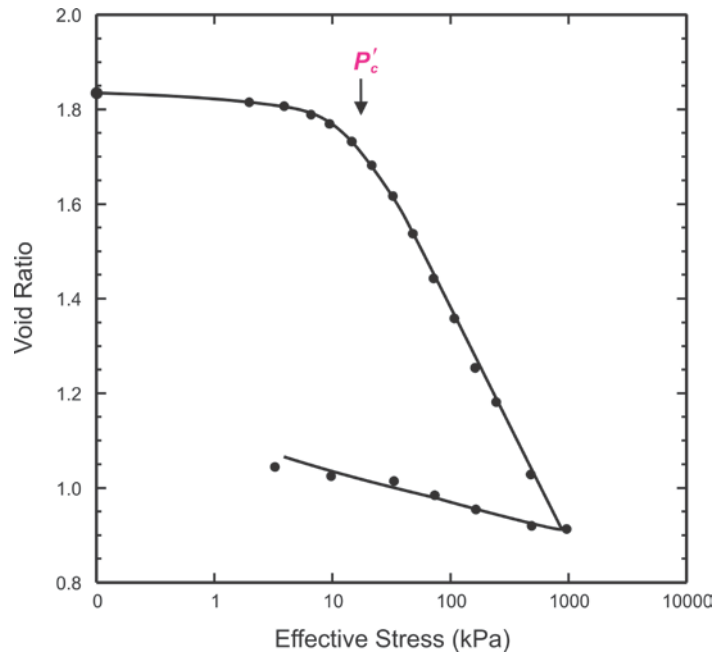


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2008802 0044A Push Core, 10-12.5 cm.

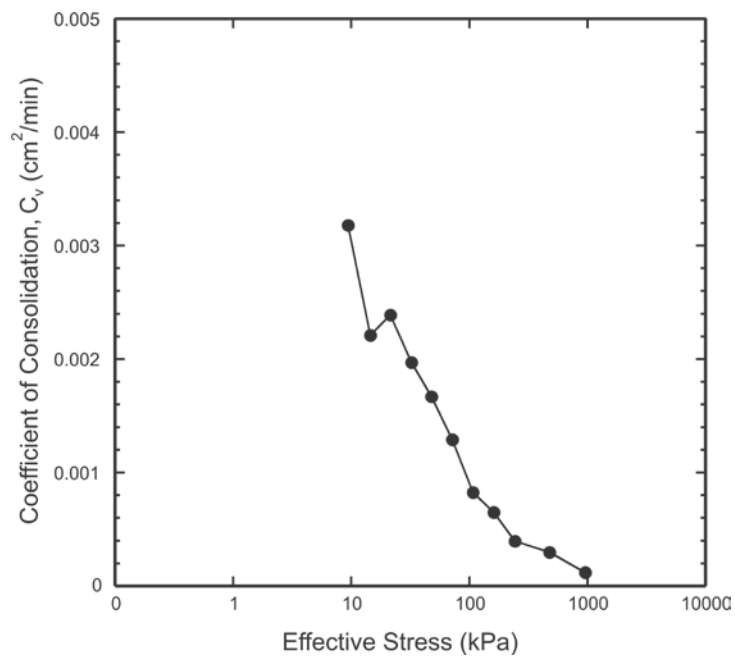


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2008802 0044A Push Core, 10-12.5 cm.

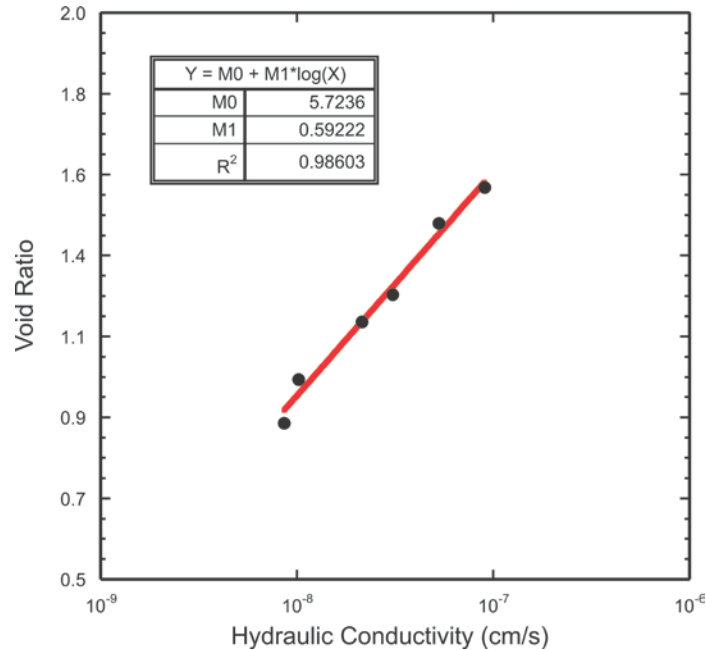


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2008802 0044A Push Core, 10-12.5 cm.

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

R.D. Holtz and William D. Kovacs. 1981. An Introduction to Geotechnical Engineering. Prentice-Hall, Inc., Englewood Cliffs, N.J. pp.294-299

Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0013PC 127-129.5 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
August 2010**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20098040013PC. The coordinates of the sample site are latitude 70.558074° and longitude -135.952877° and the water depth is 69.0 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system is a GeoTest back pressured system consisting of a consolidometer, linear displacement transducer, two digiquartz pressure transducers for measuring back and loading pressures and a DAQ system.

3 TEST PROCEDURE

A sample was taken at a core depth of 127 cm. A thin-walled sampling tube (4 cm long, 6.25 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 2.47 cm and transferred to the consolidation ring. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 200 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 13 loading increments increasing from 1.7 kPa to 890.9 kPa. Once the VCL was defined the sample was unloaded to 10.5 kPa in 5 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.4% sand, 18.6% silt and 81.0% clay. The sample had an initial void ratio of 2.22, an initial water content of 80.38% and an initial unit weight of 15.24 kN/m³. C_v values ranged from 0.015 to 0.026 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.73 and 0.074 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 18.0 kPa to 19.0 kPa resulting in an OCR value ranging from 2.8 to 3.0. Casagrande's method produced a P'_c of 18.0 kPa with a corresponding OCR value of 2.8. The effective overburden was calculated as 6.4 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 1.34⁻⁷ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2009804 0013PC, 127-129.5 cm.

Cruise ID:	<u>2009804</u>		
Borehole/Core:	<u>0013PC</u>		
Depth (cm):	<u>127-129.5 cm</u>		
Date:	<u>Aug 29/ 2010</u>		
Description of Sample:	<u>Dark Olive grey clay</u>		
Condition of Sample:	<u>Very Good</u>		
Test Type:	<u>ASTM 2435 Double Drainage</u>		
Water Content W_c (%):	<u>80.38</u>	C_c :	<u>0.725</u>
Specific Gravity (measured):	<u>2.71</u>	C_r :	<u>0.074</u>
Bulk Density ρ_w (g/cm ³):	<u>1.55</u>	P'_o :	<u>6.40</u>
Unit Weight γ_w (kN/m ³):	<u>15.24</u>	C_{ce}	<u>0.225</u>
Dry Density ρ_d (g/cm ³):	<u>0.86</u>	P'_c	<u>OCR</u>
Void Ratio:	<u>2.22</u>	Cass	<u>18.0</u> <u>2.8</u>
Porosity (%):	<u>68.97</u>	Work	<u>19.0</u> <u>3.0</u>
Back Pressure (kPa):	<u>200.0</u>	Silva	<u>18.0</u> <u>2.8</u>
Calculated $k_{P'_c \text{ void ratio}}$ (m/sec):	<u>1.34E-07</u>	Prob	<u>15.0</u> <u>2.3</u>
Liquid Limit (%):	<u>71.44</u>	Min	<u>9.0</u> <u>1.4</u>
Plastic Limit (%):	<u>34.52</u>	Max	<u>20.0</u> <u>3.1</u>
Plasticity Index (%):	<u>36.92</u>		
Liquidity Index:	<u>1.24</u>		
Classification:	<u>CH</u>		
Sand (%):	<u>0.4</u>		
Silt(%):	<u>18.6</u>		
Clay(%):	<u>81.0</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2009804 0013PC, 127-129.5 cm.

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.01	2.467	2.124			
1.71	2.467	2.223			
4.37	2.467	2.223			
6.08	2.466	2.222			
8.97	2.458	2.211			
14.11	2.425	2.168	2.81E-02	2.47E-03	1.13E-07
20.67	2.371	2.097	2.56E-02	3.31E-03	1.38E-07
36.29	2.292	1.989	2.60E-02	2.13E-03	9.04E-08
59.80	2.155	1.815	1.52E-02	2.44E-03	6.06E-08
93.62	2.021	1.640	1.69E-02	1.83E-03	5.05E-08
147.19	1.907	1.492	1.93E-02	1.01E-03	3.18E-08
219.26	1.815	1.372	1.71E-02	6.53E-04	1.83E-08
445.19	1.669	1.180	2.55E-02	3.30E-04	1.38E-08
890.94	1.517	0.982	2.40E-02	2.04E-04	8.00E-09
450.94	1.513	0.978			
154.12	1.616	1.030			
60.21	1.581	1.077			
23.87	2.223	1.107			
10.45	2.234	1.124			

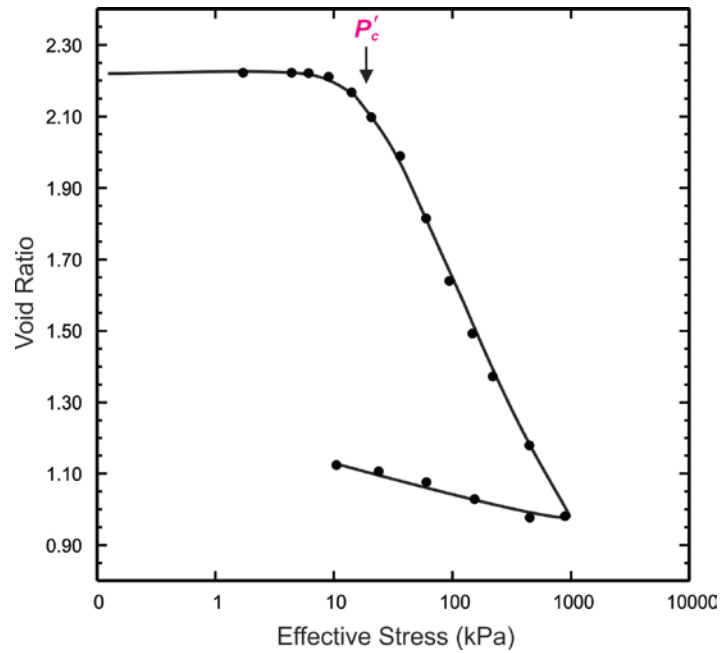


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2009804 0013PC, 127-129.5 cm.

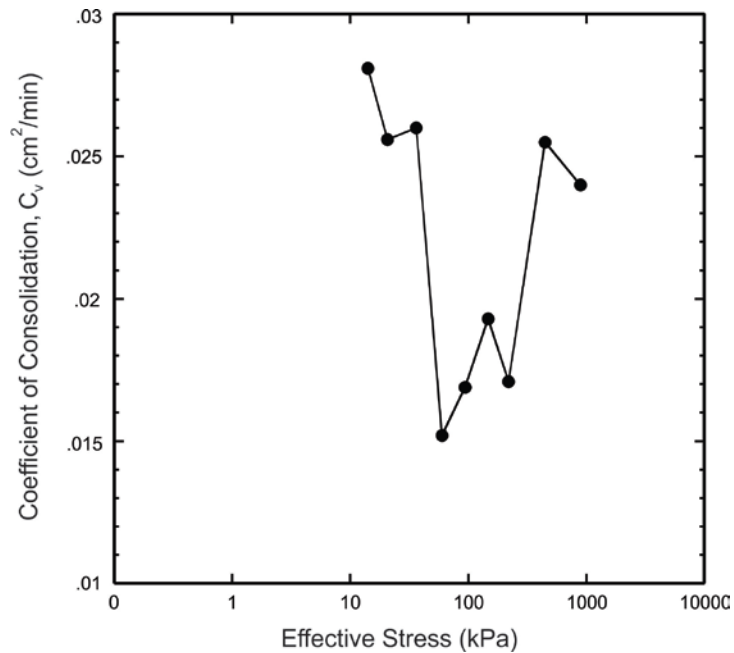


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2009804 0013PC, 127-129.5 cm.

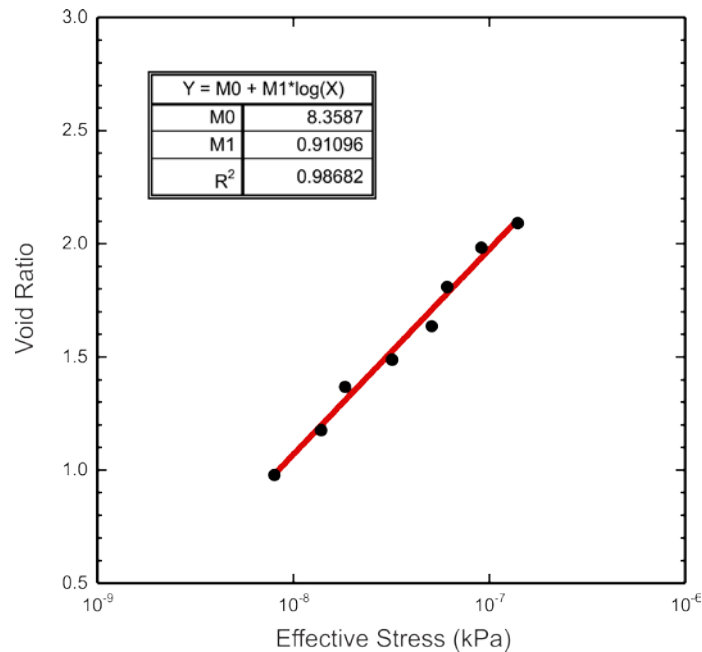


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2009804 0013PC, 127-129.5 cm.

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

R.D. Holtz and William D. Kovacs. 1981. An Introduction to Geotechnical Engineering. Prentice-Hall, Inc., Englewood Cliffs, N.J. pp.294-299

Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0019PC 227-229.5 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
August 2010**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20098040019PC. The coordinates of the sample site are latitude 70.592128 ° and longitude -136.04254 ° and the water depth is 193.0 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 227.0 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 98.0 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 14 loading increments increasing from 4.4 kPa to 881.4 kPa. Once the VCL was defined the sample was unloaded to 3.3 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e-log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.4% sand, 18.6% silt and 81.0% clay. The sample had an initial void ratio of 1.76, an initial water content of 62.00% and an initial unit weight of 15.98 kN/m³. C_v values ranged from 0.031 to 0.087 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.60 and 0.093 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 27.0 kPa to 29.5 kPa resulting in an OCR value ranging from 2.0 to 2.2. Casagrande's method produced a P'_c of 27.0 kPa with a corresponding OCR value of 2.0. The effective overburden was calculated as 13.4 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 5.03⁻⁷ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2009804 0019PC, 227-229.5 cm.

<i>Cruise ID:</i>	<u>2009804</u>		
<i>Borehole/Core:</i>	<u>0019PC</u>		
<i>Depth (cm):</i>	<u>227-229.5 cm</u>		
<i>Date:</i>	<u>Aug 1/ 2010</u>		
<i>Description of Sample:</i>	<u>Dark Olive grey clay</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Double Drainage</u>		
<i>Water Content W_c (%):</i>	<u>62.00</u>	C_c :	<u>0.604</u>
<i>Specific Gravity (measured):</i>	<u>2.72</u>	C_r :	<u>0.093</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.63</u>	P'_{o} :	<u>13.40</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.98</u>	C_{ce}	<u>0.218</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.01</u>	P'_c	<i>OCR</i>
<i>Void Ratio:</i>	<u>1.76</u>	<i>Cass</i>	<u>27.0</u> 2.01
<i>Porosity (%):</i>	<u>63.82</u>	<i>Work</i>	<u>29.0</u> 2.16
<i>Back Pressure (kPa):</i>	<u>98.0</u>	<i>Silva</i>	<u>29.5</u> 2.20
<i>Calculated $k_{P_c \text{ void ratio}}$ (m/sec):</i>	<u>5.03E-07</u>	<i>Prob</i>	<u>23.5</u> 1.75
<i>Liquid Limit (%):</i>	<u>62.60</u>	<i>Min</i>	<u>11.0</u> 0.82
<i>Plastic Limit (%):</i>	<u>28.40</u>	<i>Max</i>	<u>35.0</u> <u>2.61</u>
<i>Plasticity Index (%):</i>	<u>34.20</u>		
<i>Liquidity Index:</i>	<u>0.98</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>0.1</u>		
<i>Silt(%):</i>	<u>31.9</u>		
<i>Clay(%):</i>	<u>67.9</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2009804 0019PC, 227-229.5 cm.

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.591	1.764			
4.37	2.566	1.738			
6.07	2.557	1.729			
10.60	2.542	1.712			
15.71	2.520	1.689			
23.44	2.483	1.649			
34.36	2.435	1.599			
51.28	2.340	1.497			
78.01	2.260	1.412	8.65E-02	1.39E-03	1.97E-07
115.75	2.153	1.298	4.51E-02	2.18E-03	1.61E-07
171.24	2.054	1.192	4.35E-02	1.34E-03	9.55E-08
257.03	1.956	1.087	3.12E-02	9.53E-04	4.86E-08
384.82	1.853	0.978	3.11E-02	5.96E-04	3.03E-08
582.20	1.760	0.878	4.40E-02	4.01E-04	2.88E-08
881.36	1.664	0.776	4.63E-02	2.55E-04	1.93E-08
584.62	1.662	0.773			
262.02	1.692	0.806			
117.66	1.730	0.846			
35.76	1.782	0.902			
11.49	1.829	0.952			
3.32	1.870	0.995			

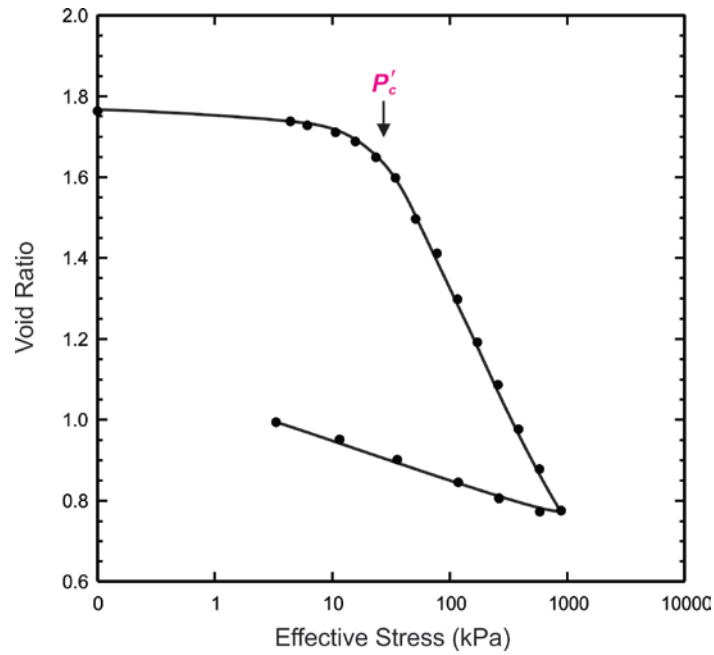


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2009804 0019PC, 227-229.5 cm.

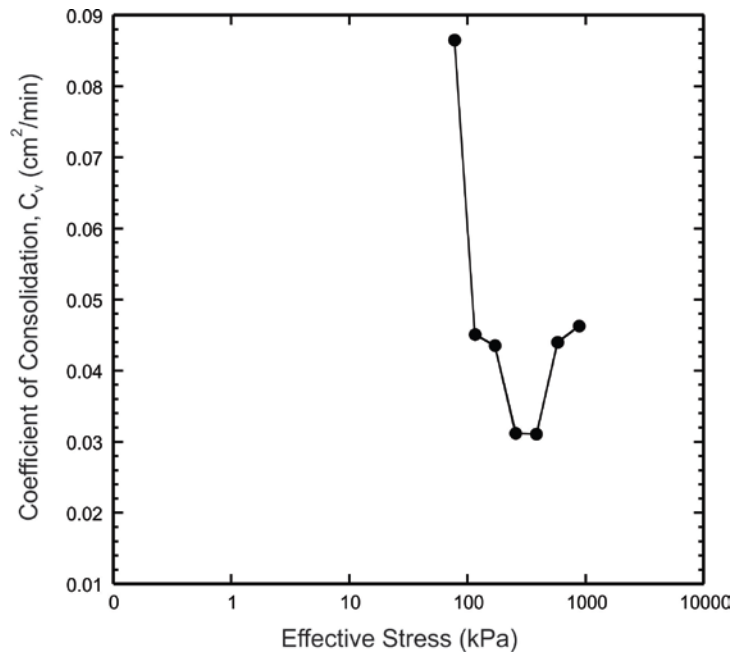


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2009804 0019PC, 227-229.5 cm.

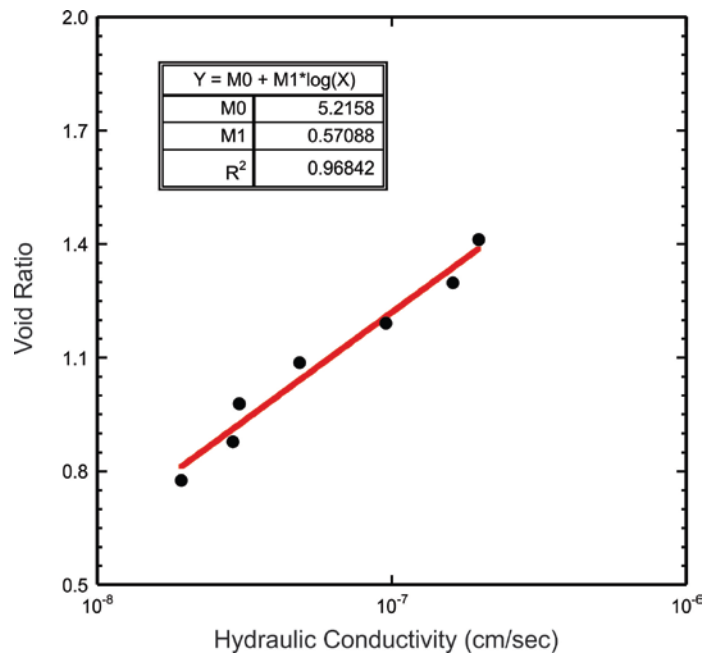


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2009804 0019PC, 227-229.5 cm.

6 REFERENCES

- D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564
- R.D. Holtz and William D. Kovacs. 1981. An Introduction to Geotechnical Engineering. Prentice-Hall, Inc., Englewood Cliffs, N.J. pp.294-299
- Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0026PC 252-254.5 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
November 2010**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20098040026PC. The coordinates of the sample site are latitude 70.636757° and longitude --136.159531° and the water depth is 469.0 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 252.0 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 98.0 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 14 loading increments increasing from 0.4 kPa to 856.1 kPa. Once the VCL was defined the sample was unloaded to 3.3 kPa in 7 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e-log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.4% sand, 33.2% silt and 66.7% clay. The sample had an initial void ratio of 1.76, an initial water content of 64.04% and an initial unit weight of 16.02 kN/m³. C_v values ranged from 0.012 to 0.229 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.77 and 0.11 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 32.0 kPa to 37.0 kPa resulting in an OCR value ranging from 2.5 to 2.9. Casagrande's method produced a P'_c of 32.0 kPa with a corresponding OCR value of 2.5. The effective overburden was calculated as 12.9 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 1.27⁻⁶ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2009804 0026PC, 252-254.5 cm.

Cruise ID:	<u>2009804</u>		
Borehole/Core:	<u>0026PC</u>		
Depth (cm):	<u>252-254.5 cm</u>		
Date:	<u>Nov 2/2010</u>		
Description of Sample:	<u>Dark Olive grey clay</u>		
Condition of Sample:	<u>Very Good</u>		
Test Type:	<u>ASTM 2435 Single Drainage</u>		
Water Content W_c (%):	<u>64.04</u>	C_c :	<u>0.77</u>
Specific Gravity (measured):	<u>2.69</u>	C_r :	<u>0.11</u>
Bulk Density ρ_w (g/cm ³):	<u>1.63</u>	P'_o :	<u>12.91</u>
Unit Weight γ_w (kN/m ³):	<u>16.02</u>	C_{ce}	<u>0.27</u>
Dry Density ρ_d (g/cm ³):	<u>1.00</u>	P'_c	OCR
Void Ratio:	<u>1.76</u>	Cass	<u>32.0</u> 2.5
Porosity (%):	<u>63.79</u>	Work	<u>37.0</u> 2.9
Back Pressure (kPa):	<u>98.0</u>	Silva	<u>34.0</u> 2.6
Calculated $k_{P'_c \text{ void ratio}}$ (m/sec):	<u>1.27E-06</u>	Prob	<u>25.0</u> 1.9
Liquid Limit (%):	<u>63.51</u>	Min	<u>15.0</u> 1.2
Plastic Limit (%):	<u>31.48</u>	Max	<u>48.0</u> 3.7
Plasticity Index (%):	<u>32.02</u>		
Liquidity Index:	<u>1.02</u>		
Classification:	<u>CH</u>		
Sand (%):	<u>0.4</u>		
Silt(%):	<u>33.2</u>		
Clay(%):	<u>66.7</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2009804 0026PC, 252-254.5 cm.

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.1	2.59	1.762			
0.4	2.59	1.756			
6.1	2.58	1.751			
8.6	2.57	1.737			
13.6	2.55	1.715			
20.6	2.52	1.683			
32.6	2.46	1.620			
48.7	2.39	1.544	2.29E-01	3.20E-03	1.20E-06
74.2	2.30	1.454	8.37E-02	2.49E-03	3.40E-07
112.0	2.22	1.364	3.11E-02	1.67E-03	8.46E-08
168.4	2.13	1.267	2.79E-02	1.22E-03	5.57E-08
252.6	2.03	1.169	2.26E-02	8.46E-04	3.12E-08
379.3	1.94	1.066	2.22E-02	5.11E-04	1.86E-08
570.3	1.83	0.953	2.09E-02	3.36E-04	1.15E-08
856.0	1.75	0.862	1.17E-02	2.22E-04	4.24E-09
571.0	1.75	0.868			
253.2	1.79	0.907			
112.6	1.84	0.966			
48.7	1.89	1.014			
21.2	1.93	1.057			
9.3	1.97	1.101			
3.3	2.01	1.141			

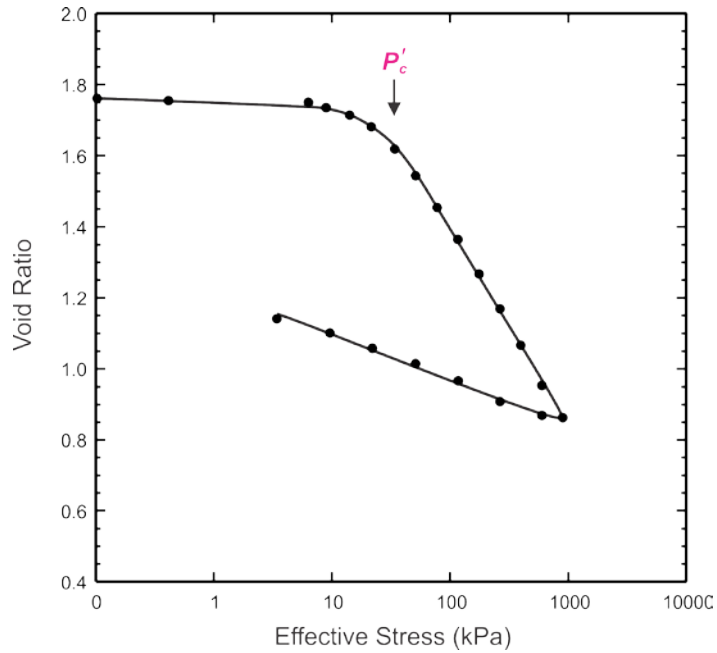


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2009804 0026PC, 252-254.5 cm.

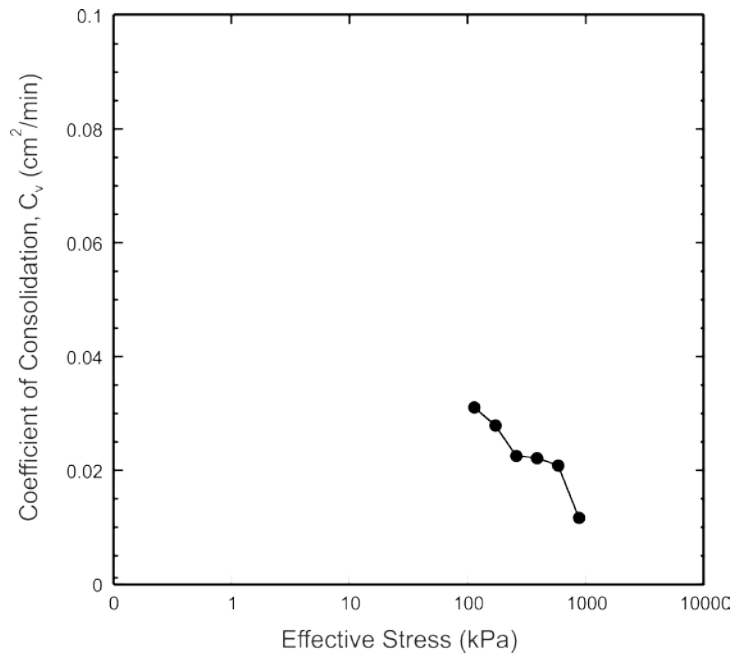


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2009804 0026PC, 252-254.5 cm.

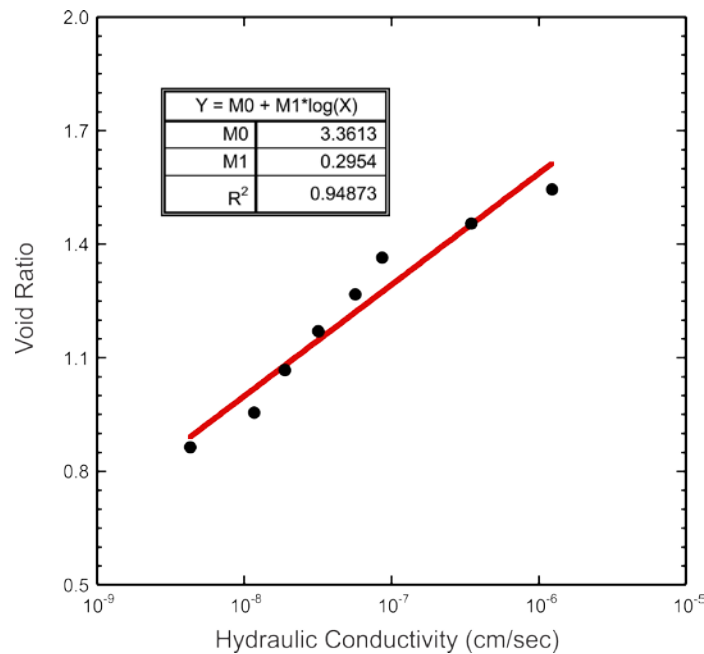


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2009804 0026PC, 252-254.5 cm.

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

R.D. Holtz and William D. Kovacs. 1981. An Introduction to Geotechnical Engineering. Prentice-Hall, Inc., Englewood Cliffs, N.J. pp.294-299

Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0036PC 230-232 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
November 2010**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20098040036PC. The coordinates of the sample site are latitude 70.674945° and longitude -136.019661° and the water depth is 444.0 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system is a GeoTest back pressured system consisting of a consolidometer, linear displacement transducer, two digiquartz pressure transducers for measuring back and loading pressures and a DAQ system.

3 TEST PROCEDURE

A sample was taken at a core depth of 230 cm. A thin-walled sampling tube (4 cm long, 6.25 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 1.84 cm and transferred to the consolidation ring. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 200 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 12 loading increments increasing from 1.4 kPa to 90.9 kPa. Once the VCL was defined the sample was unloaded to 6.6 kPa in 5 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.2% sand, 21.0% silt and 78.9% clay. The sample had an initial void ratio of 2.31, an initial water content of 83.65% and an initial unit weight of 15.14 kN/m³. C_v values ranged from 0.011 to 0.035 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.77 and 0.054 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 9.5 kPa to 12.5 kPa resulting in an OCR value ranging from 0.9 to 1.2. Casagrande's method produced a P'_c of 12.5 kPa with a corresponding OCR value of 1.2. The effective overburden was calculated as 10.3 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 7.19⁻⁶ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1 °C

Table 1 Summary of consolidation test results, Beaufort Sea sample 2009804 0036PC (230-232 cm)

<i>Cruise ID:</i>	<u>2009804</u>		
<i>Borehole/Core:</i>	<u>0036PC</u>		
<i>Depth (cm):</i>	<u>230-232cm</u>		
<i>Date:</i>	<u>Nov 29/ 2010</u>		
<i>Description of Sample:</i>	<u>Dark Olive grey clay</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Double Drainage</u>		
<i>Water Content W_c (%):</i>	<u>83.65</u>	C_c :	<u>0.774</u>
<i>Specific Gravity (measured):</i>	<u>2.71</u>	C_r :	<u>0.054</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.54</u>	P'_o :	<u>10.30</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.14</u>	C_{ce}	<u>0.234</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.83</u>	P'_c	<i>OCR</i>
<i>Void Ratio:</i>	<u>2.31</u>	<i>Cass</i>	<u>12.5</u> <u>1.21</u>
<i>Porosity (%):</i>	<u>69.76</u>	<i>Work</i>	<u>9.5</u> <u>0.92</u>
<i>Back Pressure (kPa):</i>	<u>200.0</u>	<i>Silva</i>	<u>12.5</u> <u>1.21</u>
<i>Calculated $k_{P'_c}$ void ratio (m/sec):</i>	<u>7.19E-06</u>	<i>Prob</i>	<u>10.0</u> <u>0.97</u>
<i>Liquid Limit (%):</i>	<u>73.55</u>	<i>Min</i>	<u>5.0</u> <u>0.49</u>
<i>Plastic Limit (%):</i>	<u>34.50</u>	<i>Max</i>	<u>14.0</u> <u>1.36</u>
<i>Plasticity Index (%):</i>	<u>39.05</u>		
<i>Liquidity Index:</i>	<u>1.26</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>0.2</u>		
<i>Silt(%):</i>	<u>21.0</u>		
<i>Clay(%):</i>	<u>78.9</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2009804 0036PC (230-232 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	1.808	2.306			
1.38	1.808	2.306			
3.26	1.808	2.306			
4.61	1.807	2.305			
5.11	1.806	2.303			
5.40	1.805	2.301			
7.96	1.783	2.264			
14.33	1.728	2.160	3.53E-02	4.84E-03	2.80E-07
21.74	1.684	2.080	2.20E-02	3.44E-03	1.23E-07
34.00	1.595	1.917	1.23E-02	4.14E-03	8.34E-08
50.20	1.531	1.800	1.26E-02	1.40E-03	2.89E-08
61.17	1.492	1.728	1.86E-02	6.42E-04	1.96E-08
90.91	1.421	1.599	1.10E-02	6.86E-04	1.23E-08
81.61	1.421	1.599			
42.86	1.423	1.602			
22.40	1.432	1.619			
13.12	1.438	1.630			
6.59	1.447	1.646			

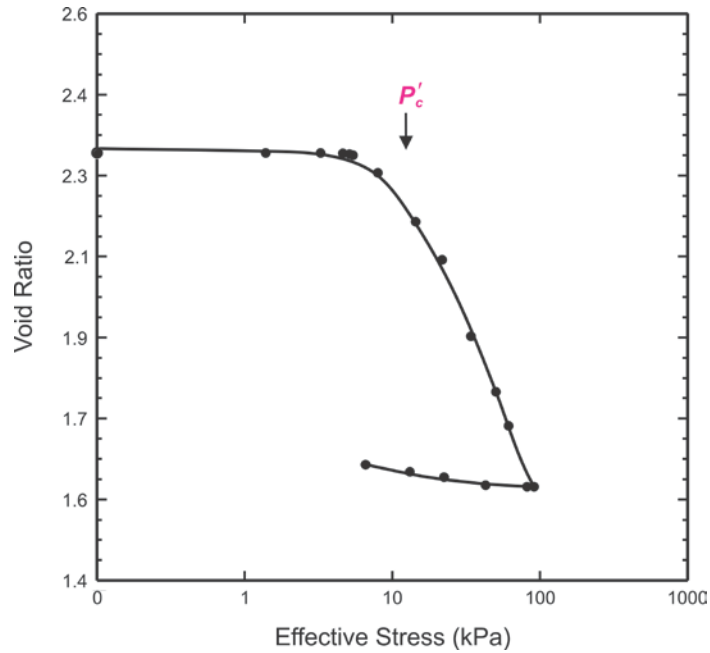


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2009804 0036PC (230-232 cm)

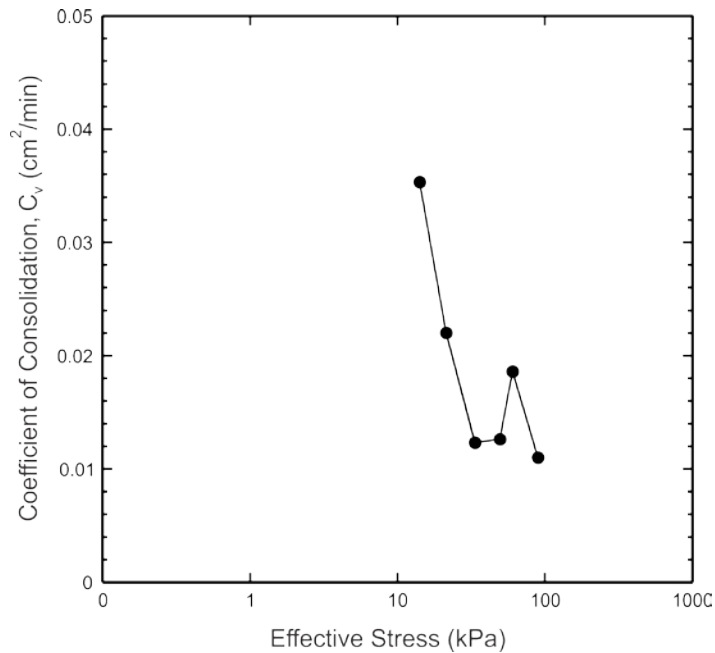


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2009804 0036PC (230-232 cm)

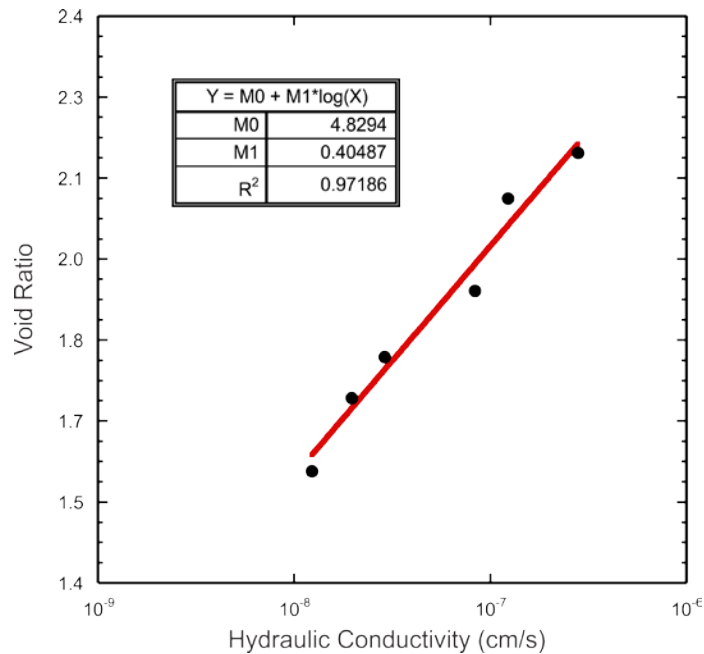


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2009804 0036PC (230-232 cm)

6 REFERENCES

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CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0036PC 701-703.5 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
November 2010**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20098040036PC. The coordinates of the sample site are latitude 70.674945° and longitude -136.019661° and the water depth is 444.0 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system is a GeoTest back pressured system consisting of a consolidometer, linear displacement transducer, two digiquartz pressure transducers for measuring back and loading pressures and a DAQ system.

3 TEST PROCEDURE

A sample was taken at a core depth of 701 cm. A thin-walled sampling tube (4 cm long, 6.25 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 2.46 cm and transferred to the consolidation ring. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 200 kPa. A B pore pressure parameter value of 0.97 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 17 loading increments increasing from 0.6 kPa to 900.5 kPa. Once the VCL was defined the sample was unloaded to 16.93 kPa in 5 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.13% sand, 18.98% silt and 80.89% clay. The sample had an initial void ratio of 1.93, an initial water content of 70.90% and an initial unit weight of 15.79 kN/m³. C_v values ranged from 0.015 to 0.039 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.67 and 0.075 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 45 kPa to 49 kPa resulting in an OCR value ranging from 1.3 to 1.4. Casagrande's method produced a P'_c of 45.0 kPa with a corresponding OCR value of 1.3. The effective overburden was calculated as 35.0 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 8.35⁻⁸ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1 °C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2009804 0036PC (701-703.5 cm)

<i>Cruise ID:</i> <u>2009804</u>			
<i>Borehole/Core:</i> <u>0036PC</u>			
<i>Depth (cm):</i> <u>701-703.5cm</u>			
<i>Date:</i> <u>Nov 15 2010</u>			
<i>Description of Sample:</i> <u>Mottled silty clay</u>			
<i>Condition of Sample:</i> <u>VG</u>			
<i>Test Type:</i> <u>ASTM 2435 Double Drainage</u>			
<i>Water Content W_c (%):</i>	<u>70.90</u>	<i>C_c:</i>	<u>0.67</u>
<i>Specific Gravity (measured):</i>	<u>2.71</u>	<i>C_r:</i>	<u>0.08</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.61</u>	<i>P'_o:</i>	<u>35.0</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.79</u>	<i>C_{ce}</i>	<u>0.23</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.95</u>	<i>P'_c</i>	<i>OCR</i>
<i>Void Ratio:</i>	<u>1.93</u>	<i>Cass</i>	<u>45.0</u> <u>1.29</u>
<i>Porosity (%):</i>	<u>65.92</u>	<i>Work</i>	<u>48.0</u> <u>1.37</u>
<i>Back Pressure (kPa):</i>	<u>200.0</u>	<i>Silva</i>	<u>49.0</u> <u>1.40</u>
<i>Calculated $k_{P'_c}$ void ratio (m/sec):</i>	<u>8.34E-08</u>	<i>Prob</i>	<u>34.0</u> <u>0.97</u>
<i>Liquid Limit (%):</i>	<u>71.51</u>	<i>Min</i>	<u>10.0</u> <u>0.29</u>
<i>Plastic Limit (%):</i>	<u>33.19</u>	<i>Max</i>	<u>60.0</u> <u>1.71</u>
<i>Plasticity Index (%):</i>	<u>38.32</u>		
<i>Liquidity Index:</i>	<u>0.98</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>0.13</u>		
<i>Silt(%):</i>	<u>18.98</u>		
<i>Clay(%):</i>	<u>80.89</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2009804 0036PC (701-703.5 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.452	1.934			
0.60	2.450	1.932			
1.97	2.446	1.927			
3.99	2.441	1.921			
5.73	2.438	1.917			
9.88	2.425	1.902			
12.20	2.420	1.896			
14.40	2.412	1.886			
19.80	2.396	1.867			
24.21	2.383	1.851			
40.25	2.335	1.794			
59.72	2.271	1.717	3.90E-02	1.26E-03	8.01E-08
88.95	2.188	1.618	3.47E-02	1.41E-03	7.99E-08
127.18	2.098	1.510	2.76E-02	1.25E-03	5.63E-08
198.80	1.984	1.374	2.55E-02	6.10E-04	2.54E-08
387.53	1.814	1.171	1.98E-02	3.91E-04	1.26E-08
598.87	1.712	1.049	1.48E-02	2.61E-04	6.31E-09
900.51	1.621	0.940	1.52E-02	1.04E-04	2.58E-09
455.18	1.627	0.947	2.03E-02	6.32E-05	2.10E-09
227.76	1.648	0.972			
110.50	1.672	1.001			
66.88	1.690	1.022			
38.35	1.703	1.038			
16.93	1.717	1.054			

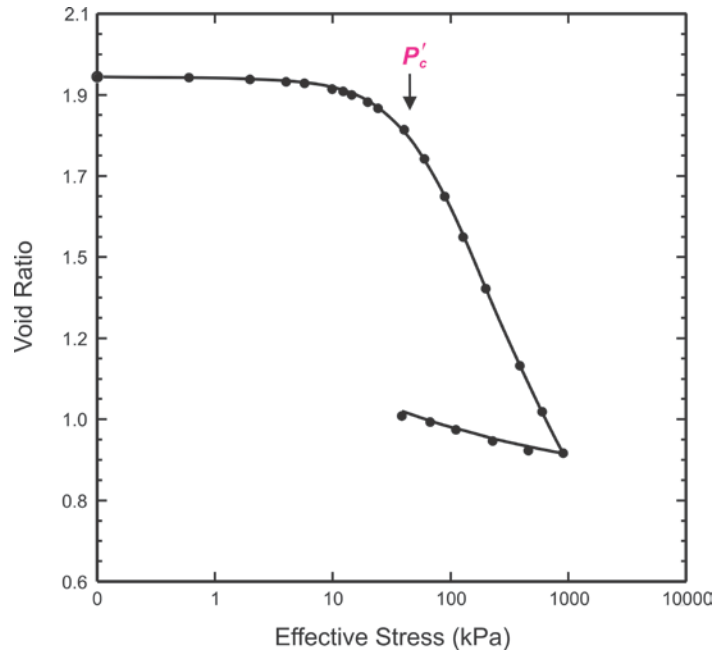


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2009804 0036PC (701-703.5 cm)

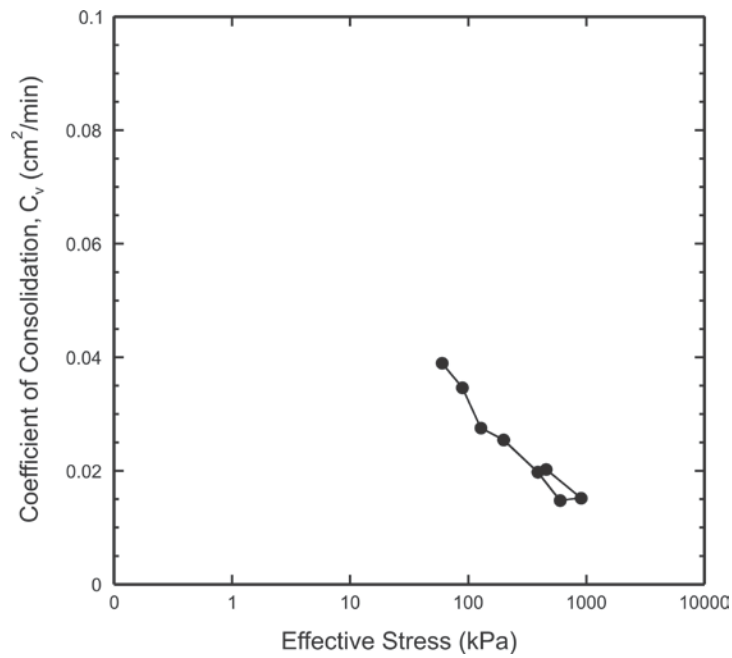


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2009804 0036PC (701-703.5 cm)

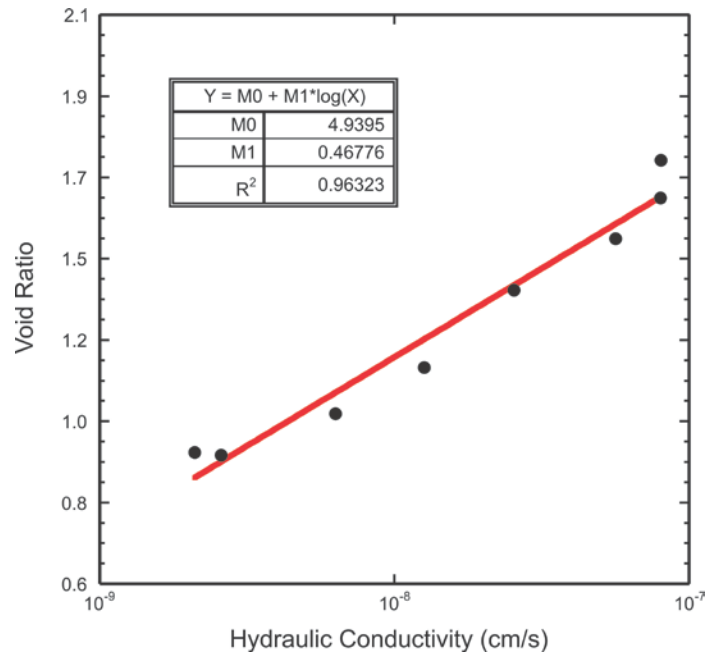


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2009804 0036PC (701-703.5 cm)

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

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CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0024PC 70-72.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
March 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0024PC. The coordinates of the sample site are latitude 70.914685° and longitude -134.808047° and the water depth is 182.4 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 70 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 98 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 14 loading increments increasing from 2.1 kPa to 527.7 kPa. Once the VCL was defined the sample was unloaded to 8.4 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark grey fat clay (CH). Hydrometer (ASTM D422) grain size results were 0.5% sand, 19.3% silt and 80.2% clay. The sample had an initial void ratio is 1.67, an initial water content of 61.98% and an initial unit weight of 16.19 kN/m³. C_v values ranged from 0.008 to 0.021 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.50 and 0.082 respectively. The preconsolidation stress (P'_c) obtained from Casagrande's, the work and Siliva's methods ranged from 24 kPa to 28 kPa resulting in an OCR value ranging from 5.5 to 6.4. Casagrande's method produced a P'_c of 25.0 kPa (Fig. 1) with a corresponding OCR value of 5.7. The effective overburden was calculated as 4.40 kPa using MSL bulk density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 4.34E10⁻⁸ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1 °C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0024PC (70-72.5 cm)

Cruise ID:	<u>2010804</u>		
Borehole/Core:	<u>0024PC</u>		
Depth (cm):	<u>70.0-72.6</u>		
Date:	<u>08-Feb-12</u>		
Description of Sample:	<u>Dark grey(10YA) silty clay</u>		
Condition of Sample:	<u>Very Good</u>		
Test Type:	<u>ASTM 2435 Single Drainage</u>		
Water Content W _c (%):	<u>61.98</u>	C _c :	<u>0.503</u>
Specific Gravity (measured):	<u>2.66</u>	C _r :	<u>0.082</u>
Bulk Density ρ _w (g/cm ³):	<u>1.65</u>	P' _o :	<u>4.40</u>
Unit Weight γ _w (kN/m ³):	<u>16.19</u>	C _{ce}	<u>0.013</u>
Dry Density ρ _d (g/cm ³):	<u>1.02</u>	P' _c	
Void Ratio:	<u>1.67</u>	(kPa)	OCR
Porosity (%):	<u>62.57</u>	Cass	<u>25.0</u> <u>5.7</u>
Back Pressure (kPa):	<u>98.0</u>	Work	<u>24.0</u> <u>5.5</u>
Calculated k _{P'_c void ratio} (m/sec):	<u>4.34E-08</u>	Silva	<u>28.0</u> <u>6.4</u>
Liquid Limit (%):	<u>55.04</u>	Prob	<u>25.0</u> <u>5.7</u>
Plastic Limit (%):	<u>26.46</u>	Min	<u>15.0</u> <u>3.41</u>
Plasticity Index (%):	<u>28.58</u>	Max	<u>31.0</u> <u>15.5</u>
Liquidity Index:	<u>1.24</u>		
Classification:	<u>CH</u>		
Sand (%):	<u>0.5</u>		
Silt(%):	<u>19.3</u>		
Clay(%):	<u>80.2</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0024PC (70-72.5 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated k (cm/sec)
0.10	2.611	1.672			
2.09	2.611	1.672			
5.06	2.610	1.671			
7.05	2.610	1.671			
10.02	2.607	1.667			
15.01	2.597	1.658	2.11E-02	1.69E-03	5.82E-08
20.92	2.588	1.648	1.51E-02	1.90E-03	4.68E-08
31.82	2.551	1.611	1.30E-02	1.76E-03	3.75E-08
46.74	2.481	1.539	1.28E-02	1.68E-03	3.53E-08
69.84	2.370	1.426	1.17E-02	1.32E-03	2.52E-08
104.49	2.284	1.337	7.72E-03	1.13E-03	1.42E-08
156.98	2.186	1.237	1.03E-02	8.17E-04	1.37E-08
235.40	2.102	1.151	1.22E-02	5.12E-04	1.02E-08
353.31	2.018	1.065	1.45E-02	3.48E-04	8.22E-09
527.70	1.938	0.983	1.38E-02	2.33E-04	5.27E-09
236.13	1.961	1.006			
157.84	1.976	1.022			
69.92	2.009	1.056			
33.10	2.032	1.079			
15.36	2.056	1.104			
8.40	2.081	1.130			

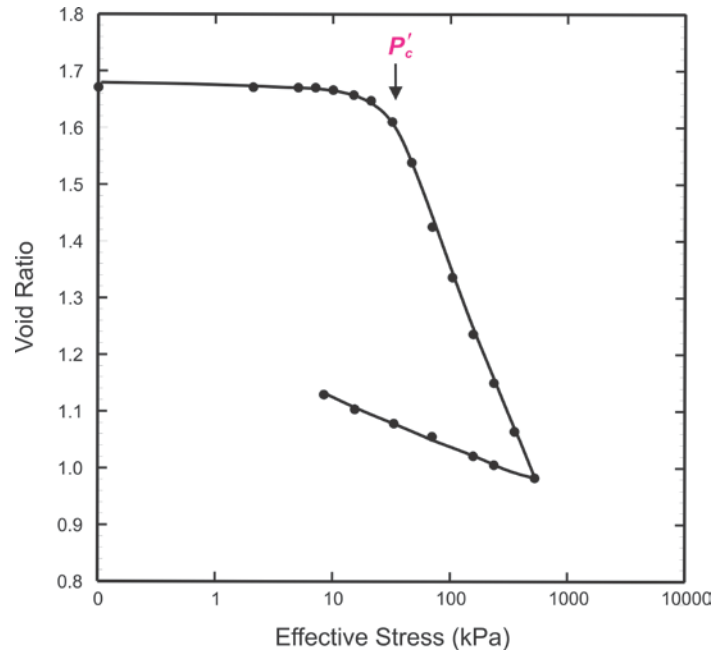


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0024PC (70-72.5 cm)

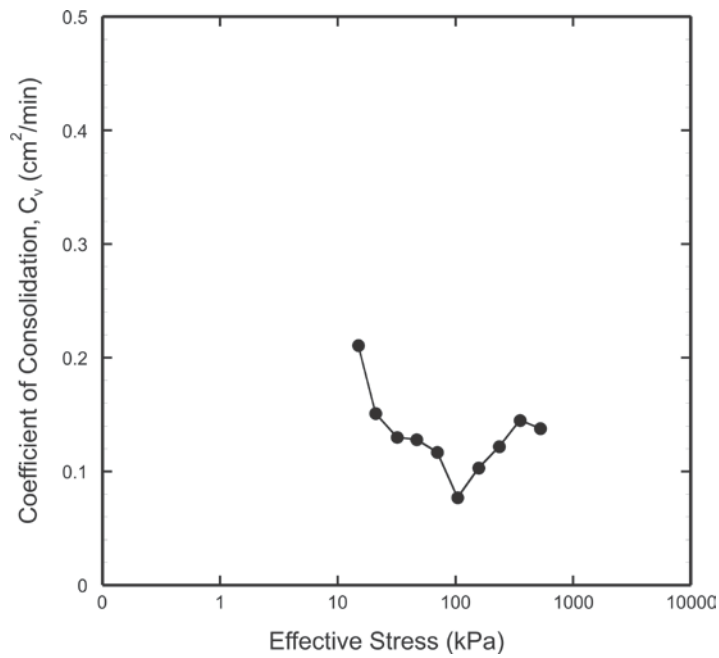


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0024PC (70-72.5 cm)

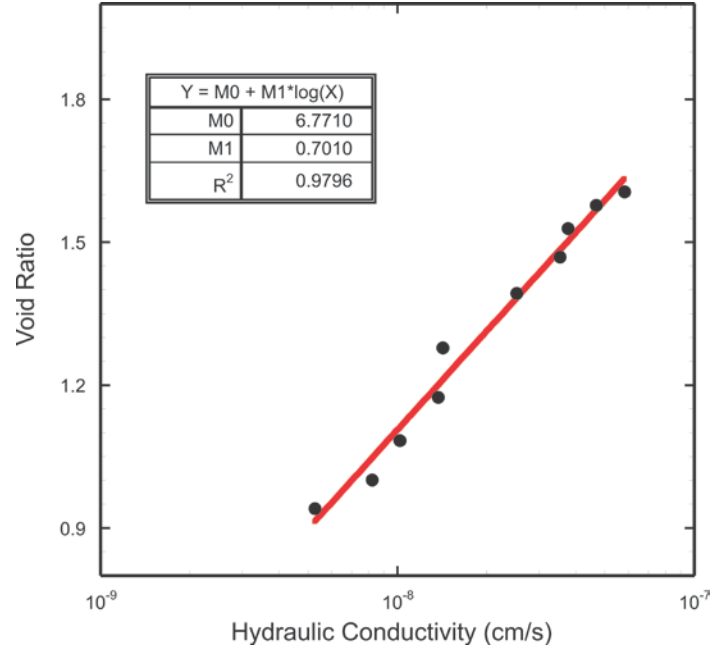


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0024PC (70-72.5 cm)

6 REFERENCES

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Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.*

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0024PC 255-257.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
October 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20108040024PC. The coordinates of the sample site are latitude 70.914685° and longitude -134.808047° and the water depth is 182.4 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 255 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 78 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 16 loading increments increasing from 1.3 kPa to 898.8 kPa. Once the VCL was defined the sample was unloaded to 7.8 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey lean (CL). Hydrometer (ASTM D422) grain size results were 4.6% sand, 39.7% silt and 55.7% clay.. The sample had an initial void ratio is 0.96, an initial water content of 34.59% and an initial unit weight of 18.31 kN/m³. C_v values ranged from 0.08 to 0.28 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.27 and 0.057 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 38 kPa to 52 kPa resulting in an OCR value ranging from 2.1 to 2.8. Casagrande's method produced a P'_c of 38.0 kPa (Fig. 1) with a corresponding OCR value of 2.1. The effective overburden was calculated as 18.42 kPa using MSL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 5.86 10⁻⁷ cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0024PC (255-257.6)

<i>Cruise ID:</i>	<u>2010804</u>		
<i>Borehole/Core:</i>	<u>0024PC</u>		
<i>Depth (cm):</i>	<u>255-257.6</u>		
<i>Date:</i>	<u>24-Oct-10</u>		
	<u>Dark Grey</u>		
<i>Description of Sample:</i>	<u>Silty Clay</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>34.59</u>	<i>C_c:</i>	<u>0.36</u>
<i>Specific Gravity (measured):</i>	<u>2.66</u>	<i>C_r:</i>	<u>0.057</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.87</u>	<i>P'_o:</i>	<u>18.42</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>18.31</u>	<i>C_{ce}</i>	<u>0.013</u>
		<i>P'_c</i>	
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.39</u>	(kPa)	<i>OCR</i>
<i>Void Ratio:</i>	<u>0.96</u>	<i>Cass</i>	<u>38.0</u> <u>2.1</u>
<i>Porosity (%):</i>	<u>49.08</u>	<i>Work</i>	<u>52.0</u> <u>2.8</u>
<i>Back Pressure (kPa):</i>	<u>78.0</u>	<i>Silva</i>	<u>47.0</u> <u>2.6</u>
<i>Calculated k_{P'_c void ratio} (m/sec):</i>	<u>5.86E-07</u>	<i>Prob</i>	<u>38.0</u> <u>2.1</u>
<i>Liquid Limit (%):</i>	<u>43.35</u>	<i>Min</i>	<u>16.0</u> <u>0.9</u>
<i>Plastic Limit (%):</i>	<u>22.78</u>	<i>Max</i>	<u>68.0</u> <u>3.7</u>
<i>Plasticity Index (%):</i>	<u>20.57</u>		
<i>Liquidity Index:</i>	<u>0.57</u>		
<i>Classification:</i>	<u>CL</u>		
<i>Sand (%):</i>	<u>4.6</u>		
<i>Silt(%):</i>	<u>39.7</u>		
<i>Clay(%):</i>	<u>55.7</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 (255-257.6)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.611	0.964			
1.31	2.610	0.964			
2.08	2.610	0.963			
4.55	2.608	0.962			
7.41	2.606	0.960			
11.10	2.603	0.958			
16.60	2.597	0.953			
25.92	2.587	0.946			
39.80	2.568	0.932			
68.27	2.512	0.889			
95.76	2.463	0.853	2.84E-01	6.91E-04	3.21E-07
135.75	2.409	0.812	1.41E-01	4.72E-04	1.09E-07
203.98	2.352	0.769	1.59E-01	3.45E-04	8.96E-08
306.07	2.289	0.722	8.65E-02	2.61E-04	3.69E-08
459.48	2.221	0.671	7.88E-02	1.95E-04	2.51E-08
690.48	2.158	0.623	1.02E-01	1.23E-04	2.07E-08
898.79	2.117	0.593	1.08E-01	8.97E-05	1.58E-08
450.76	2.132	0.603			
225.26	2.152	0.618			
114.05	2.177	0.637			
56.56	2.205	0.658			
14.87	2.253	0.694			
7.82	2.273	0.710			

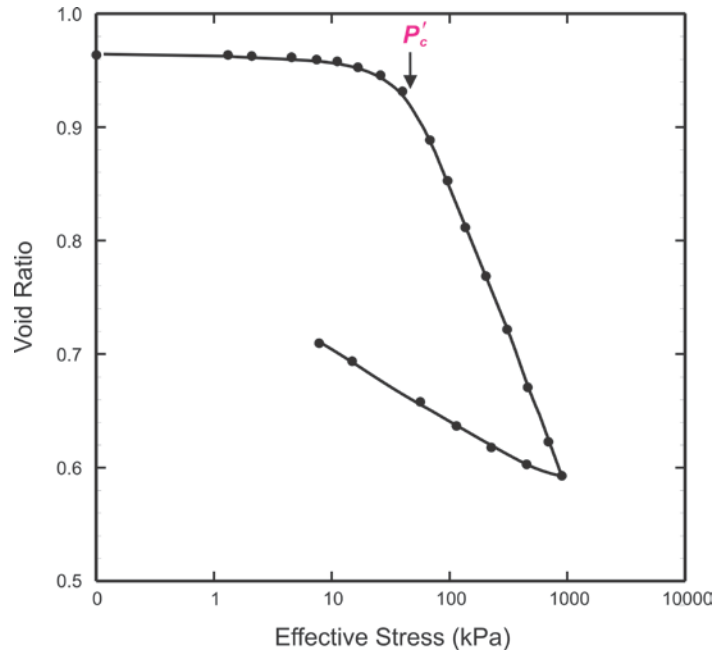


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0024PC (255-257.6)

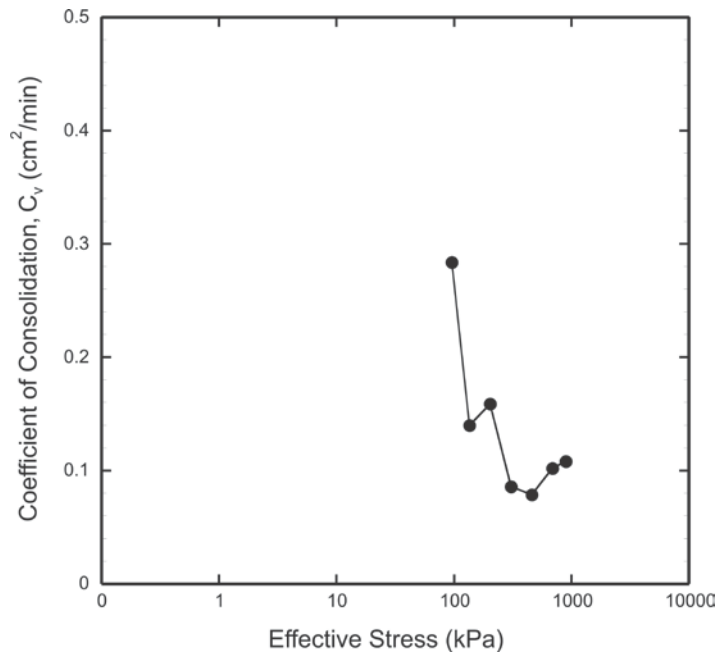


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0024PC (255-257.6)

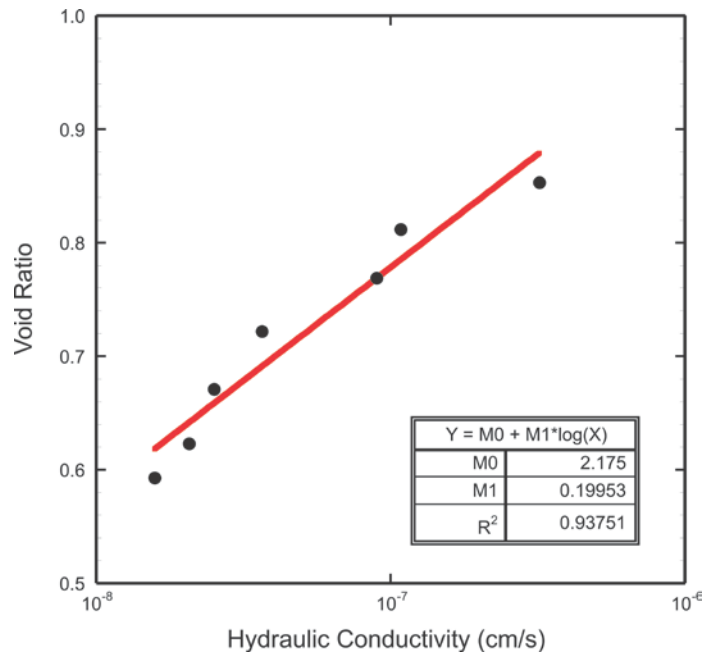


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0024PC (255-257.6)

6 REFERENCES

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Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0036PC 389-391.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
March 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20108040036PC. The coordinates of the sample site are latitude 70.928576° and longitude -134.837663° and the water depth is 254.6 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 389 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 74 kPa. A B pore pressure parameter value of 0.97 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 15 loading increments increasing from 1.3 kPa to 695.3 kPa. Once the VCL was defined the sample was unloaded to 9.6 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark olive grey fat (MH). Hydrometer (ASTM D422) grain size results were 0.6% sand, 20.8% silt and 78.6% clay. The sample had an initial void ratio is 2.04, an initial water content of 75.69% and an initial unit weight of 15.42 kN/m³. C_v values ranged from 0.008 to 0.014 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.63 and 0.08 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 24 kPa to 28 kPa resulting in an OCR value ranging from 1.2 to 1.4. Casagrande's method produced a P'_c of 27.0 kPa (Fig. 1) with a corresponding OCR value of 1.4. The effective overburden was calculated as 20.03 kPa using MSL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 7.15E-8 cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0036PC (389-391.6 cm)

<i>Cruise ID:</i>	<u>2010804</u>		
<i>Borehole/Core:</i>	<u>0036pc</u>		
<i>Depth (cm):</i>	<u>389-391</u>		
<i>Date:</i>	<u>08-Mar-12</u>		
<i>Description of Sample:</i>	<u>Dark grey silty clay</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>75.69</u>	C_c :	<u>0.63</u>
<i>Specific Gravity (measured):</i>	<u>2.69</u>	C_r :	<u>0.08</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.57</u>	P'_o :	<u>20.03</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.42</u>	C_{ce}	<u>0.013</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.89</u>	P'_c	
<i>Void Ratio:</i>	<u>2.04</u>	(kPa)	<i>OCR</i>
<i>Porosity (%):</i>	<u>67.53</u>	<i>Cass</i>	27.0 1.35
<i>Back Pressure (kPa):</i>	<u>74.0</u>	<i>Work</i>	24.0 1.20
<i>Calculated $k_{P'_c}$ void ratio (m/sec):</i>	<u>7.15E-08</u>	<i>Silva</i>	28.0 1.40
<i>Liquid Limit (%):</i>	<u>62.98</u>	<i>Prob</i>	25.0 1.25
<i>Plastic Limit (%):</i>	<u>33.65</u>	<i>Min</i>	18.0 0.90
<i>Plasticity Index (%):</i>	<u>29.33</u>	<i>Max</i>	<u>41.0</u> <u>2.05</u>
<i>Liquidity Index:</i>	<u>1.43</u>		
<i>Classification:</i>	<u>MH</u>		
<i>Sand (%):</i>	<u>0.6</u>		
<i>Silt(%):</i>	<u>20.8</u>		
<i>Clay(%):</i>	<u>78.6</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0036PC (389-391.6 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.611	2.044			
1.32	2.611	2.044			
2.71	2.610	2.043			
4.57	2.607	2.040			
7.26	2.605	2.037			
11.23	2.598	2.029			
17.36	2.585	2.014			
26.16	2.571	1.997			
40.98	2.485	1.898	1.44E-02	2.25E-03	5.30E-08
60.81	2.368	1.761	8.32E-03	2.37E-03	3.22E-08
90.59	2.247	1.620	8.18E-03	1.72E-03	2.30E-08
137.24	2.147	1.504	9.28E-03	9.51E-04	1.44E-08
205.59	2.051	1.391	9.93E-03	6.58E-04	1.07E-08
309.68	1.954	1.279	1.03E-02	4.51E-04	7.57E-09
463.31	1.863	1.172	1.24E-02	3.04E-04	6.15E-09
695.28	1.776	1.071	1.08E-02	2.01E-04	3.57E-09
289.71	1.792	1.113			
144.94	1.817	1.142			
74.84	1.841	1.169			
37.29	1.862	1.194			
18.44	1.879	1.214			
9.55	1.892	1.230			

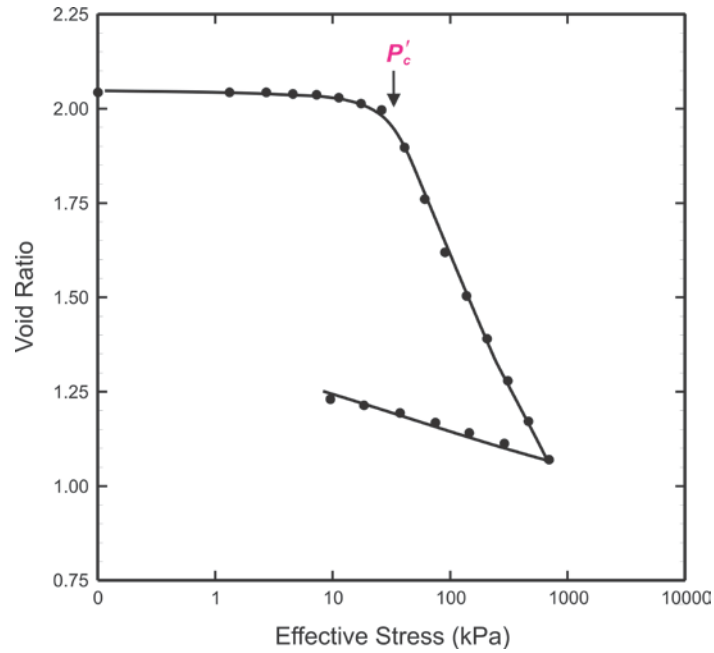


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0036PC (389-391.6 cm)

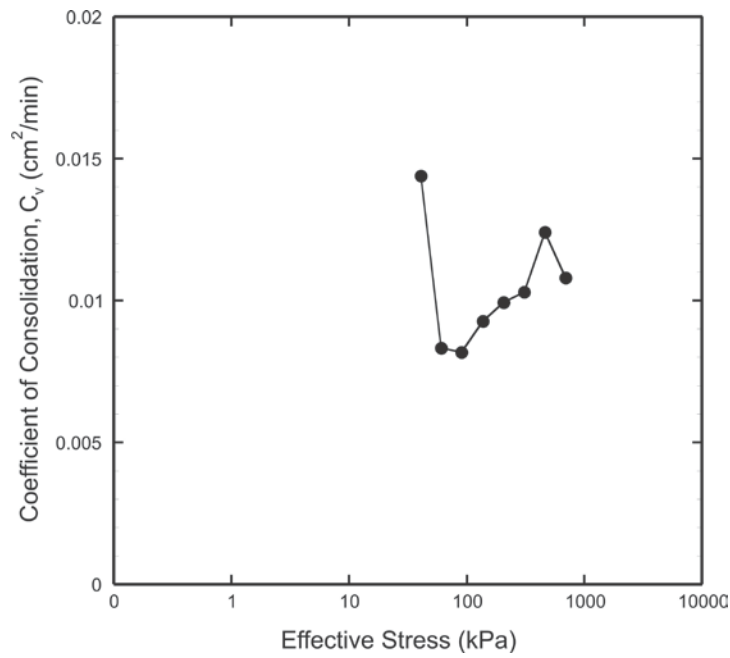


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0036PC (389-391.6 cm)

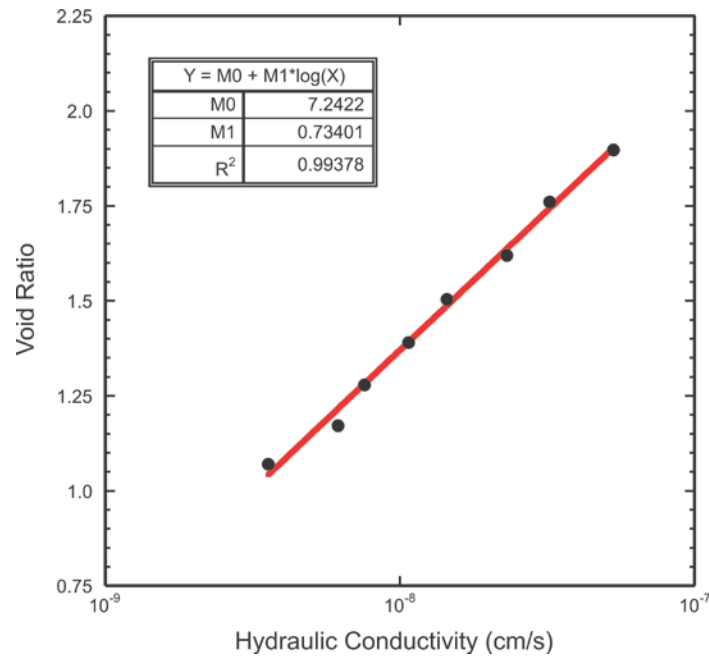


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0036PC (389-391.6 cm)

6 REFERENCES

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Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0056PC 427-429.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
April 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20108040056PC. The coordinates of the sample site are latitude 71.190056 °and longitude -134.397119° and the water depth is 993.9 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 427 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 98 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 13 loading increments increasing from 1.4 kPa to 462.0 kPa. Once the VCL was defined the sample was unloaded to 8.7 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e-log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark grey fat (CH) clay. Hydrometer (ASTMD422) grain size results were 0.2% sand, 11.4% silt and 88.4% clay. The sample had an initial void ratio is 1.78, an initial water content of 64.57% and an initial unit weight of 16.01 kN/m³. C_v values ranged from 0.007 to 0.015 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.57 and 0.07 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 31.0 kPa to 35.0 kPa resulting in an OCR value ranging from 1.4 to 1.6. Casagrande's method produced a P'_c of 33.0 kPa (Fig. 1) with a corresponding OCR value of 1.5. The effective overburden was calculated as 22.2 kPa using MSL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 1.06E-7 cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C.

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0056PC (427-429.6 cm)

<i>Cruise ID:</i> <u>2010804</u>		
<i>Borehole/Core:</i> <u>0056PC</u>		
<i>Depth (cm):</i> <u>427-429.6</u>		
<i>Date:</i> <u>17-Apr-12</u>		
<i>Description of Sample:</i> <u>Dark grey silty clay</u>		
<i>Condition of Sample:</i> <u>Very Good</u>		
<i>Test Type:</i> <u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>64.57</u>	<i>C_c:</i> <u>0.567</u>
<i>Specific Gravity (measured):</i>	<u>2.69</u>	<i>C_r:</i> <u>0.070</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.63</u>	<i>P'_o:</i> <u>22.2</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>16.01</u>	<i>C_{ce}</i> <u>0.013</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.78</u>	<i>P'_c</i> (kPa) <u>33.0</u>
<i>Void Ratio:</i>	<u>1.78</u>	<i>Cass</i> <u>1.49</u>
<i>Porosity (%):</i>	<u>63.97</u>	<i>Work</i> <u>1.40</u>
<i>Back Pressure (kPa):</i>	<u>98.0</u>	<i>Silva</i> <u>1.58</u>
<i>Calculated k_{P_c void ratio} (m/sec):</i>	<u>1.06E-07</u>	<i>Prob</i> <u>1.22</u>
<i>Liquid Limit (%):</i>	<u>63.45</u>	<i>Min</i> <u>0.59</u>
<i>Plastic Limit (%):</i>	<u>31.05</u>	<i>Max</i> <u>1.89</u>
<i>Plasticity Index (%):</i>	<u>32.40</u>	
<i>Liquidity Index:</i>	<u>1.03</u>	
<i>Classification:</i>	<u>CH</u>	
<i>Sand (%):</i>	<u>0.2</u>	
<i>Silt(%):</i>	<u>11.4</u>	
<i>Clay(%):</i>	<u>88.4</u>	

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0056PC (427-429.6 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.611	1.775			
1.42	2.611	1.775			
2.61	2.610	1.775			
5.66	2.609	1.774			
8.61	2.606	1.770			
13.00	2.602	1.766			
27.35	2.561	1.723			
41.24	2.508	1.666			
59.58	2.418	1.570			
90.28	2.328	1.475	1.22E-02	1.21E-03	2.41E-08
135.89	2.228	1.368	1.16E-02	1.18E-03	2.23E-08
203.96	2.134	1.268	3.17E-03	1.80E-03	9.33E-09
308.28	2.042	1.170	5.30E-03	5.56E-04	4.82E-09
461.98	1.950	1.073	6.04E-03	3.82E-04	3.78E-09
234.14	1.972	1.096			
116.80	2.000	1.127			
59.13	2.024	1.152			
30.57	2.042	1.171			
15.70	2.055	1.185			
8.69	2.064	1.194			

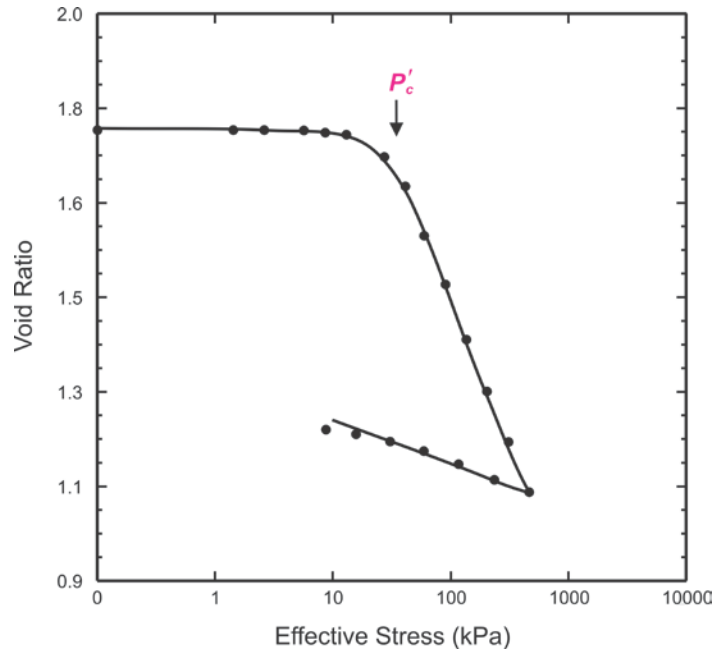


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0056PC (427-429.6 cm)

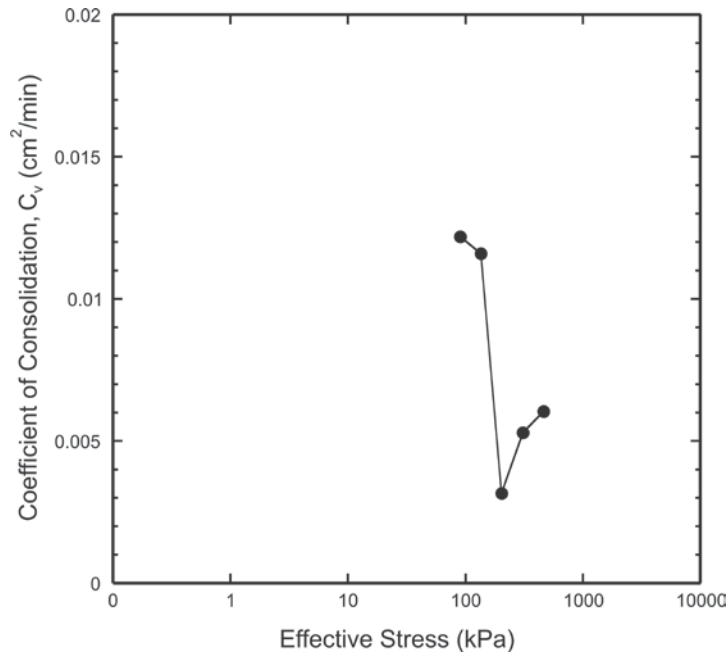


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0056PC (427-429.6 cm)

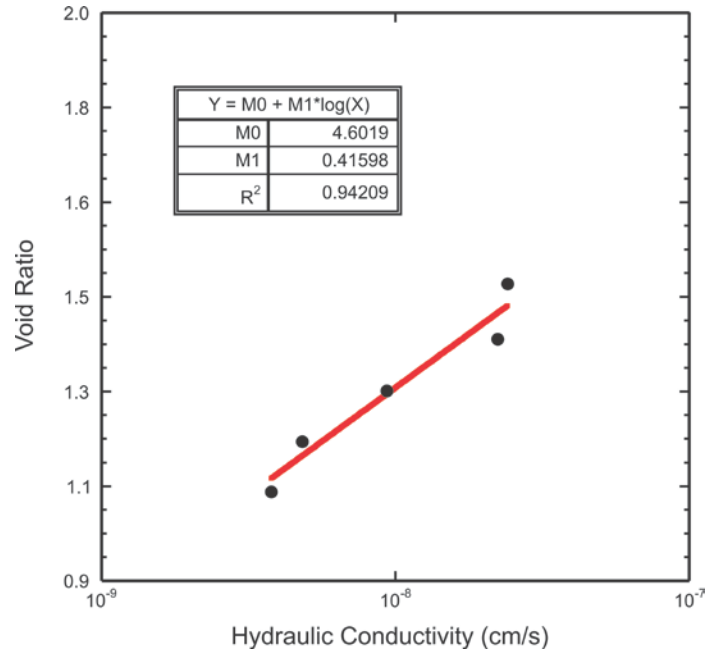


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0056PC (427-429.6 cm)

6 REFERENCES

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CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0069PC 104-106.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
May 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0069PC. The coordinates of the sample site are latitude 71.063718° and longitude -135.123834° and the water depth is 630.8 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 102 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 73 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 9 loading increments increasing from 2.8 kPa to 61.35 kPa. Once the VCL was defined the sample was unloaded to 8.3 kPa in 2 unloading increments.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is a silty dark grey fat (CH) clay. The sample had an initial void ratio of 2.66, an initial water content of 98.34% and an initial unit weight of 14.62 kN/m³. C_v values ranged from 0.18 to 0.23 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be .62 and 0.13 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 20.0 kPa to 25.0 kPa resulting in an OCR value ranging from 4.3 to 5.4. Casagrande's method produced a P'_c of 25.0 kPa with a corresponding OCR value of 5.4. The effective overburden was calculated as 4.65 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 2.90E-5 cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0069PC (104-106.6 cm)

<i>Cruise ID:</i>	<u>2010804</u>		
<i>Borehole/Core:</i>	<u>0069PC</u>		
<i>Depth (cm):</i>	<u>104-106.6</u>		
<i>Date:</i>	<u>24-May-12</u>		
<i>Description of Sample:</i>	<u>Dark grey silty clay</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>98.34</u>	C_c :	<u>.62</u>
<i>Specific Gravity (measured):</i>	<u>2.69</u>	C_r :	<u>0.13</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.49</u>	P'_o :	<u>4.65</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>14.62</u>	C_{ce}	<u>0.013</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.19</u>	P'_c	(kPa) <u>OCR</u>
<i>Void Ratio:</i>	<u>2.66</u>	Cass	<u>25</u> <u>5.4</u>
<i>Porosity (%):</i>	<u>72.69</u>	Work	<u>20</u> <u>4.3</u>
<i>Back Pressure (kPa):</i>	<u>73.0</u>	Silva	<u>25</u> <u>5.4</u>
<i>Calculated k_{P_c} void ratio (m/sec):</i>	<u>2.90E-05</u>	Prob	<u>17.5</u> <u>3.8</u>
<i>Liquid Limit (%):</i>	<u>69.72</u>	Min	<u>13.0</u> <u>2.8</u>
<i>Plastic Limit (%):</i>	<u>33.61</u>	Max	<u>30.0</u> <u>6.5</u>
<i>Plasticity Index (%):</i>	<u>36.12</u>		
<i>Liquidity Index:</i>	<u>1.79</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>NA</u>		
<i>Silt(%):</i>	<u>NA</u>		
<i>Clay(%):</i>	<u>NA</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0069PC (104-106.6 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.662	2.662			
2.82	2.662	2.662			
2.82	2.647	2.650			
4.69	2.568	2.630			
7.73	2.250	2.600			
12.45	2.223	2.583			
18.40	2.184	2.544			
27.16	2.118	2.478	2.28E-01	9.33E-04	1.42E-05
40.96	2.035	2.395	2.06E-01	8.42E-04	5.02E-06
61.35	1.956	2.316	1.83E-01	7.48E-04	1.73E-06
91.49	1.824	2.184			
137.59	1.718	2.078			
205.93	1.606	1.966			
309.50	1.521	1.880			
175.16	1.900	1.910			
85.00	1.950	1.950			
29.07	2.050	2.050			
8.30	2.150	2.140			

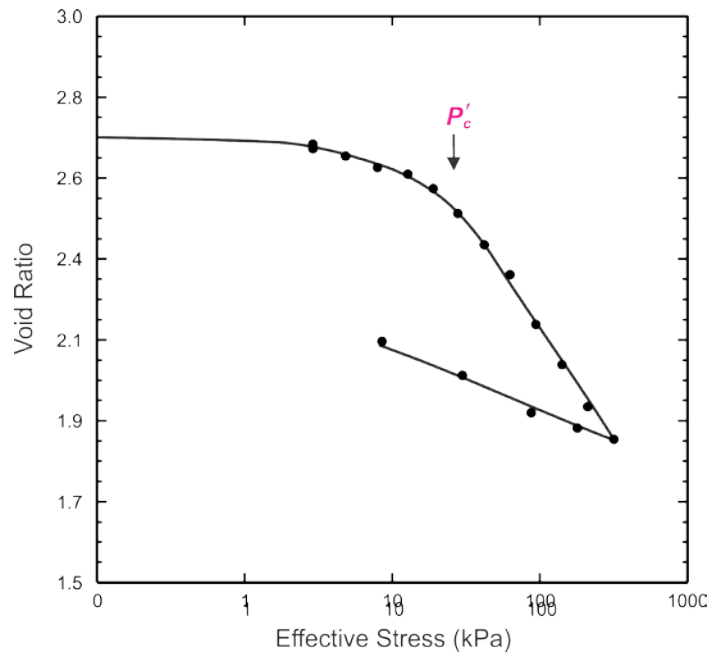


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0069PC (104-106.6 cm)

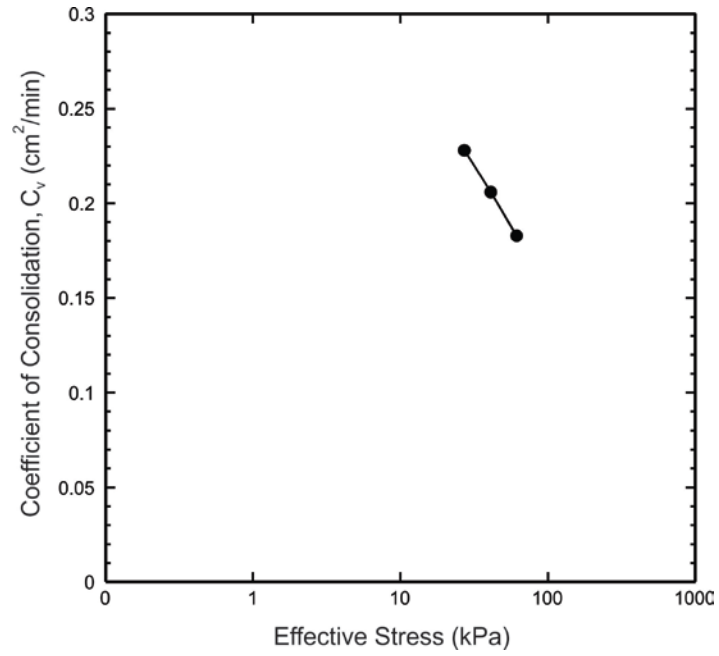


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0069PC (104-106.6 cm)

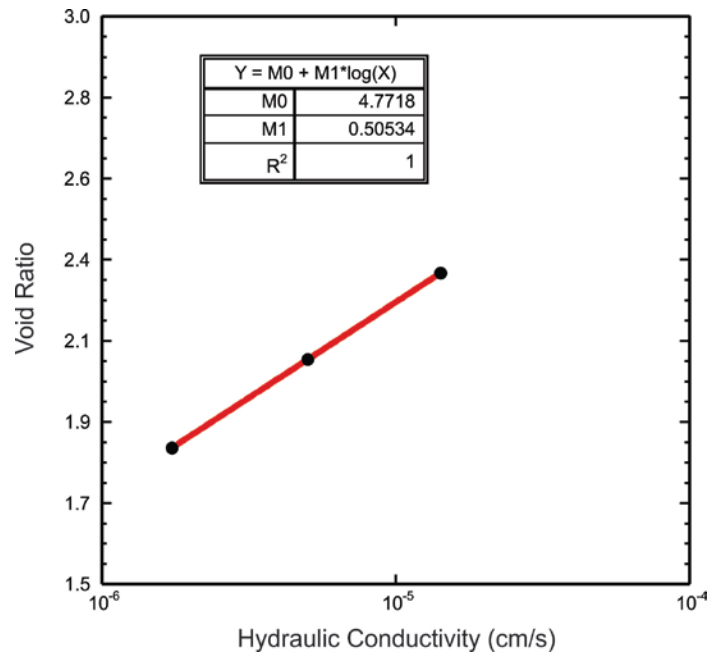


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0069PC (104-106.6 cm)

6 REFERENCES

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CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0069PC 410-412.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
January 2013**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0069PC. The coordinates of the sample site are latitude 71.063718° and longitude -135.123834° and the water depth is 630.8 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 410 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 123 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 17 loading increments increasing from 0.9 kPa to 830.9 kPa. Once the VCL was defined the sample was unloaded to 10.4 kPa in 6 unloading increments.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is a silty dark grey fat (CH) clay. The sample had an initial void ratio of 1.60, an initial water content of 63.04% and an initial unit weight of 16.87 kN/m³. C_v values ranged from 0.014 to 0.043 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.38 and 0.06 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 24.0 kPa to 32.0 kPa resulting in an OCR value ranging from 1.2 to 1.6. Casagrande's method produced a P'_c of 24.0 kPa with a corresponding OCR value of 1.2. The effective overburden was calculated as 20.63 kPa using MSCL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 8.86E-6 cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0069PC (410-412.6 cm)

<i>Cruise ID:</i>	<u>2010804</u>		
<i>Borehole/Core:</i>	<u>0069PC</u>		
<i>Depth (cm):</i>	<u>410.0-412.6</u>		
<i>Date:</i>	<u>28-Jan-13</u>		
<i>Description of Sample:</i>	<u>Dark Grey Silty Clay</u>		
<i>Condition of Sample:</i>	<u>Very good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>63.04</u>	C_c :	<u>0.38</u>
<i>Specific Gravity (measured):</i>	<u>2.68</u>	C_r :	<u>0.06</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.72</u>	P'_{o} :	<u>20.63</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>16.87</u>	C_{ce}	<u>0.147</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.05</u>	P'_c	(kPa) <u>OCR</u>
<i>Void Ratio:</i>	<u>1.60</u>	Cass	<u>24.0</u> <u>1.2</u>
<i>Porosity (%):</i>	<u>61.54</u>	Work	<u>32.0</u> <u>1.6</u>
<i>Back Pressure (kPa):</i>	<u>123.0</u>	Silva	<u>24.0</u> <u>1.2</u>
<i>Calculated k_{P_c} void ratio (m/sec):</i>	<u>8.86E-06</u>	Prob	<u>16.0</u> <u>1.2</u>
<i>Liquid Limit (%):</i>	<u>54.19</u>	Min	<u>8.0</u> <u>0.4</u>
<i>Plastic Limit (%):</i>	<u>26.98</u>	Max	<u>50.0</u> <u>2.4</u>
<i>Plasticity Index (%):</i>	<u>27.21</u>		
<i>Liquidity Index:</i>	<u>1.33</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>0.8</u>		
<i>Silt(%):</i>	<u>41.8</u>		
<i>Clay(%):</i>	<u>57.3</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0069PC (410-412.6 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.611	1.600			
0.87	2.611	1.600			
1.91	2.606	1.596			
4.34	2.588	1.577			
7.35	2.562	1.552			
11.35	2.526	1.526			
17.25	2.500	1.500			
26.13	2.470	1.470			
39.92	2.430	1.431			
60.76	2.391	1.391			
90.50	2.345	1.346			
137.01	2.304	1.280			
205.44	2.284	1.230			
309.80	2.171	1.173	2.22E-02	1.18E-03	4.27E-08
463.37	2.110	1.111	4.30E-02	2.43E-04	1.71E-08
695.03	2.032	1.034	3.19E-02	1.68E-04	8.76E-09
830.93	1.997	0.999	1.35E-02	9.19E-05	2.03E-09
293.83	2.027	1.028			
148.39	2.047	1.055			
74.89	2.062	1.080			
37.06	2.075	1.099			
19.26	2.086	1.107			
10.41	2.093	1.116			
0.10	2.611	1.600			

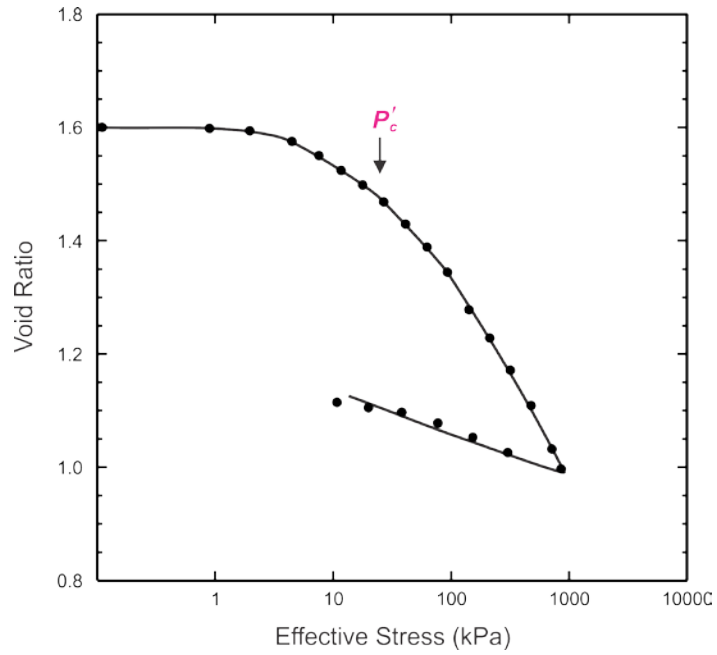


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0069PC (410-412.6 cm)

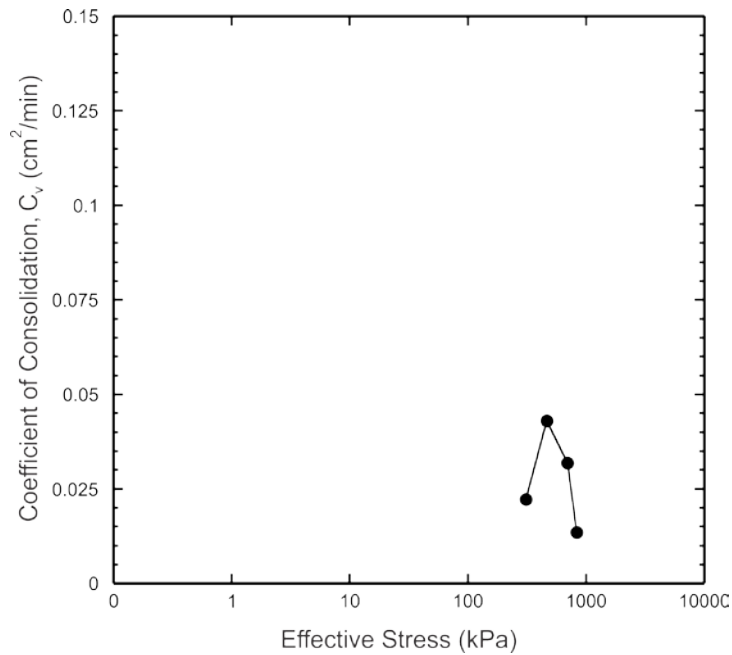


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0069PC (410-412.6 cm)

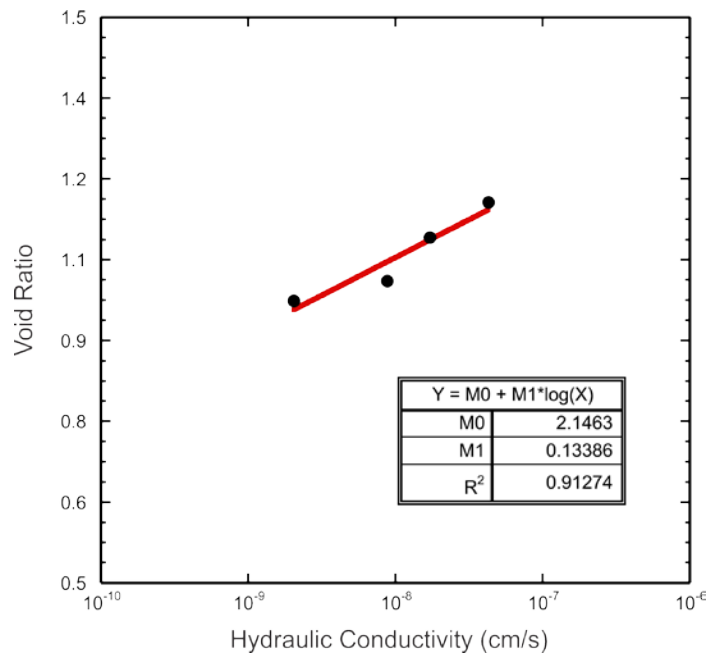


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0069PC (410-412.6 cm)

6 REFERENCES

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Pacheco Silva, F. 1970. A new graphical construction for determination of the pre-consolidation stress of a soil sample. *In* Proceedings of the 4th Brazilian Conference on Soil Mechanics and Foundation Engineering, Rio de Janeiro, Brazil. Vol. 2, No. 1, pp. 225–232.

CONSOLIDATION TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0070PC 213-215.6 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
May 2012**

1 INTRODUCTION

One dimensional consolidation testing was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 20108040070PC. The coordinates of the sample site are latitude 71.169998° and longitude -135.353741° and the water depth is 879.4 m.

2 CONSOLIDATION TESTING SYSTEM

The consolidation system used was a GDS consolidation testing system. The system consists of a Rowe and Barden consolidation cell, two GDS standard pressure/volume controllers, linear displacement transducer, pore pressure transducer, 16 bit DAQ pad, computer and GDS software. The GDS software can perform the step loading test and the constant rate of strain test.

3 TEST PROCEDURE

A sample was taken at a core depth of 213 cm. A cutting shoe with a sharp cutting edge was pushed into the core which extruded the sediment into a consolidation ring with an ID of 6.35 cm. The sample was trimmed in the consolidation ring with a wire saw to a height of 2.61 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed.

The sample was back pressured to 73 kPa. A B pore pressure parameter value of 0.98 was obtained after saturation indicating 100% saturation. Vertical loads were then applied until the sample was in a state of normal consolidation and the virgin compression line (VCL) was established. Load increments increased by 50% of the previous load and were applied until the end of primary consolidation. There were 14 loading increments increasing from 2.6 kPa to 463.9 kPa. Once the VCL was defined the sample was unloaded to 8.7 kPa in 6 unloading increments, each being approximately half of the magnitude of the previous load.

4 METHODOLOGY

Variables, such as void ratios, square root times, and consolidation coefficients, were calculated from the test data using Microsoft Excel. The changing void ratios used to generate the e -log p' curve were determined from the time vs. displacement relationship at the end of primary consolidation. Taylor's square root of time method was used to determine the consolidation coefficients (C_v) and the hydraulic conductivity (k). The preconsolidation stress (P'_c) was determined using Casagrande's method, the work method (Becker et. al, 1987) and Silva's method (Silva 1970). The minimum, maximum, and most probable P'_c were also determined (Holtz and Kovacs, 1981).

5 RESULTS

The sample is silty dark grey fat (CH) clay. Grain size results were 1.7% sand, 36.7% silt and 61.6% clay. The sample had an initial void ratio of 1.97, an initial water content of 71.2% and an initial unit weight of 15.86 kN/m³. C_v values ranged from 0.0067 to 0.0148 cm²/min. The compression (C_c) and recompression indices (C_r) were calculated to be 0.67 and 0.07 respectively. The preconsolidation stress (P'_c) obtained from the various methods ranged from 21.0 kPa to 22.0 kPa resulting in an OCR value ranging from 1.95 to 2.05. Casagrande's method produced a P'_c of 22.0 kPa (Fig. 1) with a corresponding OCR value of 2.05. The effective overburden was calculated as 10.75 kPa using MSL density values measured at 1 cm intervals. The hydraulic conductivity at the void ratio equivalent to the P'_c was calculated as 3.69E-7 cm/sec. The test results are summarized in tables 1 and 2 and figures 1, 2 and 3. All reported data are at the laboratory temperature of 22°C ± 1°C

Table 1 Summary of consolidation test results, Beaufort Sea sample 2010804 0070PC (213-215.6 cm)

<i>Cruise ID:</i>	<u>2010804</u>		
<i>Borehole/Core:</i>	<u>0070PC</u>		
<i>Depth (cm):</i>	<u>213.0-215.6</u>		
<i>Date:</i>	<u>09-May-12</u>		
<i>Description of Sample:</i>	<u>Dark grey silty clay with some sand</u>		
<i>Condition of Sample:</i>	<u>Very Good</u>		
<i>Test Type:</i>	<u>ASTM 2435 Single Drainage</u>		
<i>Water Content W_c (%):</i>	<u>71.22</u>	C_c :	<u>0.67</u>
<i>Specific Gravity (measured):</i>	<u>2.74</u>	C_r :	<u>0.07</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.62</u>	P'_{o} :	<u>10.75</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.86</u>	C_{ce}	<u>0.013</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.86</u>	P'_c	(kPa)
<i>Void Ratio:</i>	<u>1.97</u>	Cass	<u>22.0</u> <u>2.0</u>
<i>Porosity (%):</i>	<u>66.33</u>	Work	<u>21.0</u> <u>2.0</u>
<i>Back Pressure (kPa):</i>	<u>73.00</u>	Silva	<u>21.0</u> <u>2.0</u>
<i>Calculated $k_{P'_c}$ void ratio (m/sec):</i>	<u>3.69E-07</u>	Prob	<u>18.0</u> <u>1.7</u>
<i>Liquid Limit (%):</i>	<u>62.77</u>	Min	<u>8.0</u> <u>0.7</u>
<i>Plastic Limit (%):</i>	<u>26.48</u>	Max	<u>27.0</u> <u>2.5</u>
<i>Plasticity Index (%):</i>	<u>36.30</u>		
<i>Liquidity Index:</i>	<u>1.78</u>		
<i>Classification:</i>	<u>CH</u>		
<i>Sand (%):</i>	<u>1.7</u>		
<i>Silt(%):</i>	<u>36.7</u>		
<i>Clay(%):</i>	<u>61.6</u>		

Table 2 Consolidation test results for each load increment, Beaufort Sea sample 2010804 0070PC (213-215.6 cm)

Effective Stress (kPa)	Height (cm)	Void Ratio	C_v (cm ² /min)	M_v (per kPa)	Calculated K (cm/sec)
0.10	2.611	1.970			
2.40	2.611	1.970			
3.25	2.609	1.969			
4.54	2.604	1.963			
6.11	2.600	1.957			
11.07	2.592	1.949			
17.39	2.571	1.926			
25.93	2.516	1.862			
35.87	2.432	1.767			
61.41	2.282	1.596	1.22E-02	3.05E-03	6.08E-08
91.97	2.153	1.449	6.70E-03	1.87E-03	2.05E-08
131.05	2.054	1.337	1.11E-02	9.98E-04	1.81E-08
198.74	1.973	1.245	7.47E-03	5.75E-04	7.02E-09
301.11	1.885	1.145	1.48E-02	4.28E-04	1.03E-08
400.00	1.803	1.051			
348.47	1.807	1.056			
174.61	1.834	1.087			
88.14	1.861	1.118			
44.73	1.883	1.142			
15.70	1.896	1.157			
8.69	1.905	1.167			

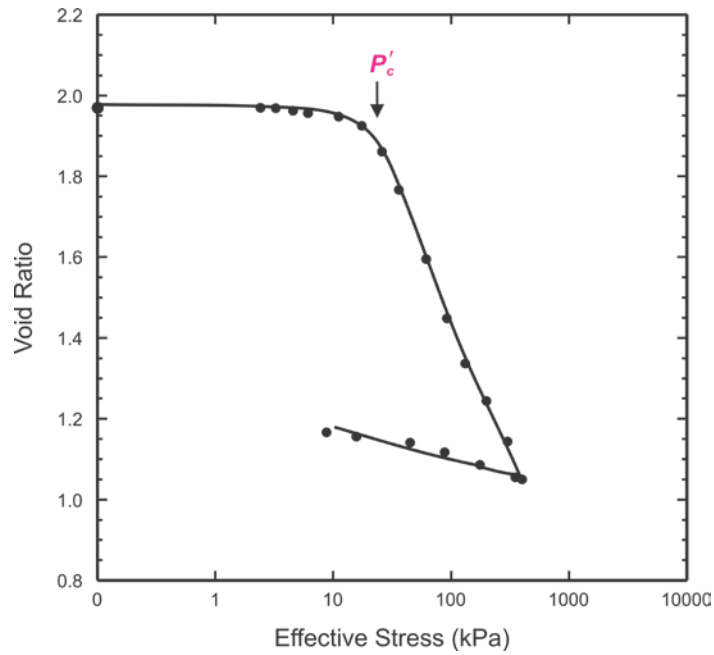


Figure 1 Consolidation plot (e-log p'), Beaufort Sea sample 2010804 0070PC (213-215.6 cm)

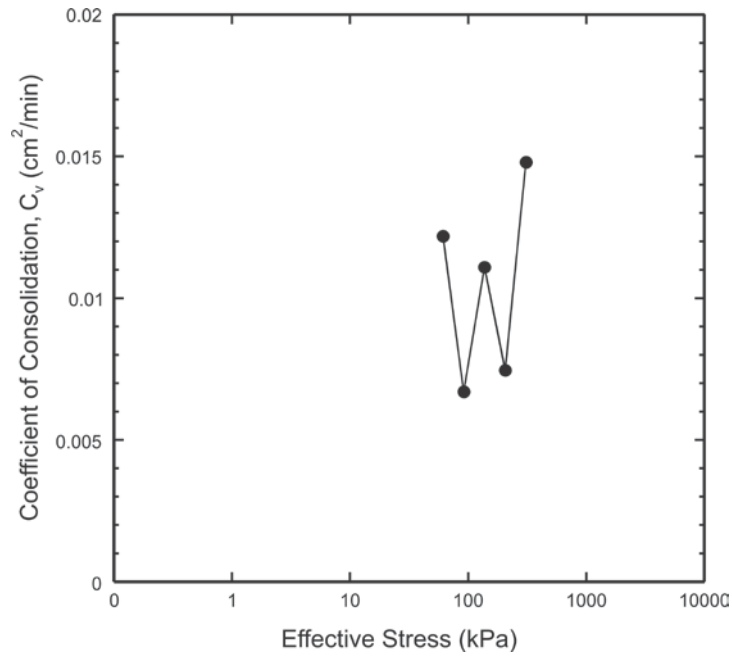


Figure 2 Coefficient of Consolidation (C_v) and effective stress plot, Beaufort Sea sample 2010804 0070PC (213-215.6 cm)

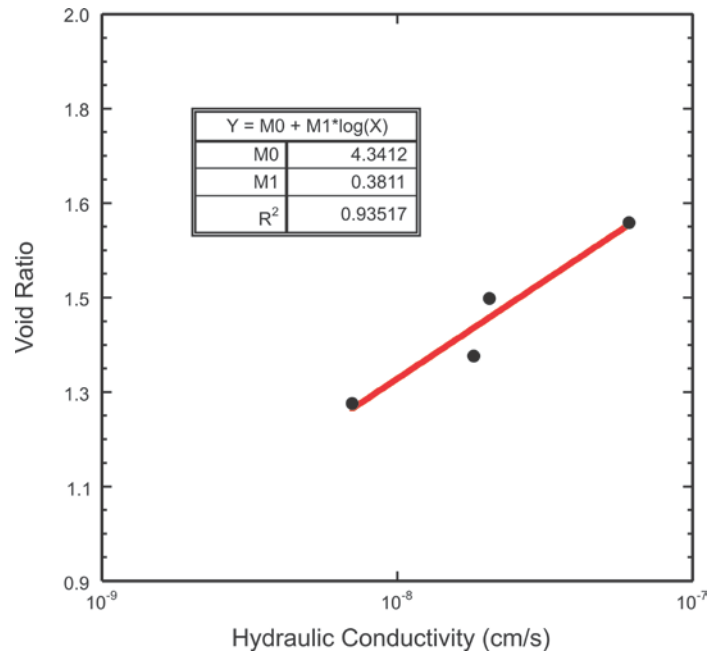


Figure 3 Hydraulic conductivity inferred from consolidation test results, Beaufort Sea sample 2010804 0070PC (213-215.6 cm)

6 REFERENCES

D.E Becker et al. 1987. Work as a criterion for determining *in situ* and yield stresses in clays. Canadian Geotechnical Journal. Vol. 24, pp.549-564

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TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0013PC 108-120 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
MAY 2010**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2009804 0013PC. The coordinates of the sample site are latitude 70.558074° and longitude -135.952877°. The water depth is 69.0 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth from 108 cm to 122 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.02 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 240 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 9.2 kPa, 49.6 kPa and 99.4 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 17.04%.

Shear wave (S_v) velocities were measured at the end of the consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.8 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.4% sand, 18.6% silt and 81.0% clay. The sample had an initial void ratio of 2.23, an initial water content of 82.18% and an initial unit weight of 15.30 kN/m^3 . The sample reached a maximum deviator stress of 54.8 kPa after shearing to 14.7% axial strain in three stages. The measured friction angle (ϕ') was 18.2° and the cohesive intercept (c') was 2.2 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1, and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 88.4 m/s at an effective stress of 9.2 kPa to 250.2 m/s at an effective stress of 99.4 kPa. The small strain shear modulus (G_{max}) increased from 12.1 MPa at an effective stress of 9.2 kPa to 149.2 MPa at an effective stress of 99.4 kPa. Note that P wave velocity was assumed to be 1500 m/sec for G_{max} calculations. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2009804 0013PC (108-120 cm).

<i>Cruise ID:</i>	<u>2009804</u>
<i>Borehole/Core:</i>	<u>0013PC</u>
<i>Test No:</i>	<u>TEST1</u>
<i>Depth (cm):</i>	<u>108-120</u>
<i>Description of Sample:</i>	<u>Grey silty clay</u>
<i>Condition of Sample:</i>	<u>Very Good</u>
<i>Test Type:</i>	<u>CU multistage test</u>
<i>Date:</i>	<u>May/2010</u>
<i>Water Content Salt corr W_c (%) :</i>	<u>82.18</u>
<i>Diameter of Sample (cm):</i>	<u>4.80</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.56</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>15.30</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.86</u>
<i>Void Ratio:</i>	<u>2.23</u>
<i>Porosity (%):</i>	<u>69.04</u>
<i>Back Pressure (kPa):</i>	<u>240.0</u>
<i>Saturation Coefficient (B value):</i>	<u>0.99</u>
<i>Φ':</i>	<u>18.8</u>
<i>C':</i>	<u>2.2</u>
<i>Su/σ'_v</i>	<u>0.28</u>
<i>$Su/\sigma'_{v(corr)}$:</i>	<u>0.23</u>
<i>A_f:</i>	<u>0.52</u>
<i>Initial Young's modulus E_i (kPa)</i>	<u>1442.4</u>
<i>Liquid Limit (%):</i>	<u>71.44</u>
<i>Plastic Limit (%):</i>	<u>34.52</u>
<i>Plasticity Index (%):</i>	<u>36.92</u>
<i>Liquidity Index:</i>	<u>1.29</u>
<i>Classification:</i>	<u>CH</u>
<i>Sand (%):</i>	<u>0.4</u>
<i>Silt(%):</i>	<u>18.6</u>
<i>Clay(%):</i>	<u>81.0</u>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2009804 0013PC (108-120 cm).

<i>Consolidation Pressure</i>	<i>Deviator Stress</i>	<i>Effective Average Mean Stress</i>	<i>Maximum Shear Stress</i>	
σ'_v (kPa)	(kPa)	s' (kPa)	t, t' (kPa)	A_f
9.20	11.31	11.92	5.66	0.52
49.60	28.62	38.50	14.31	0.94
99.40	54.74	81.46	27.37	1.00

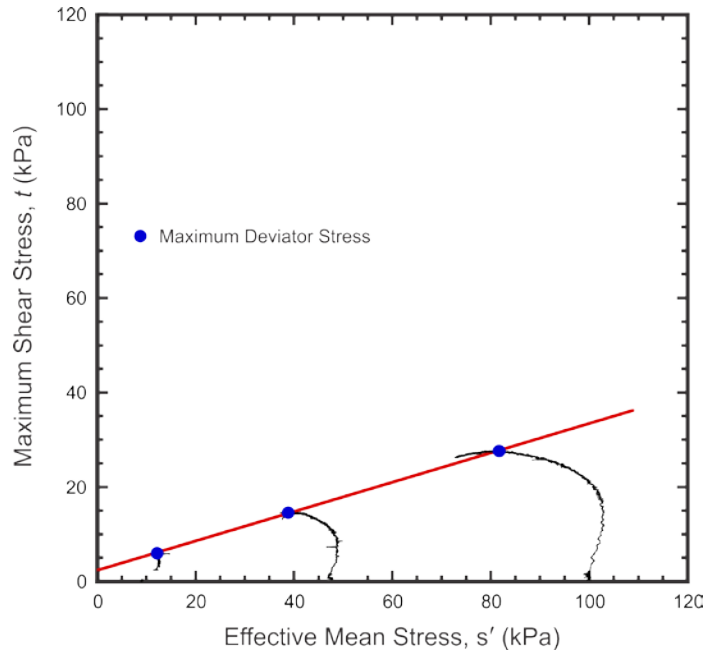


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2009804 0013PC (108-120 cm).

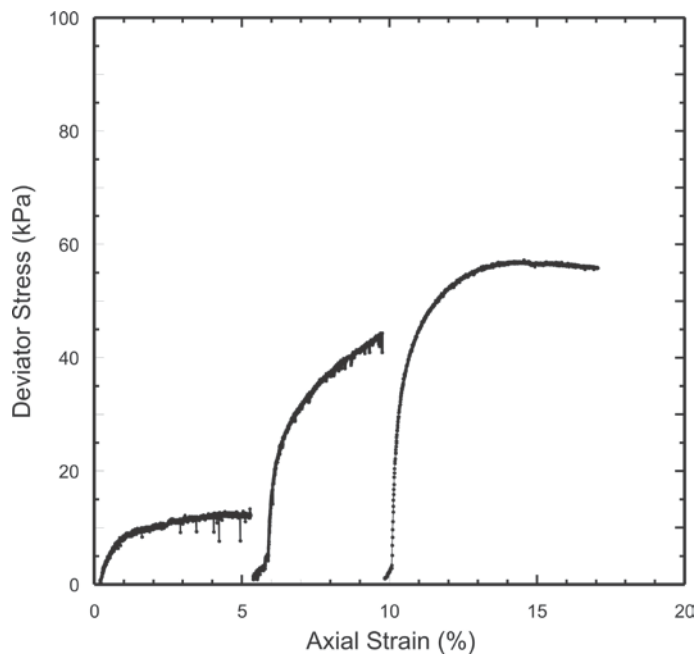


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2009804 0013PC (108-120 cm).

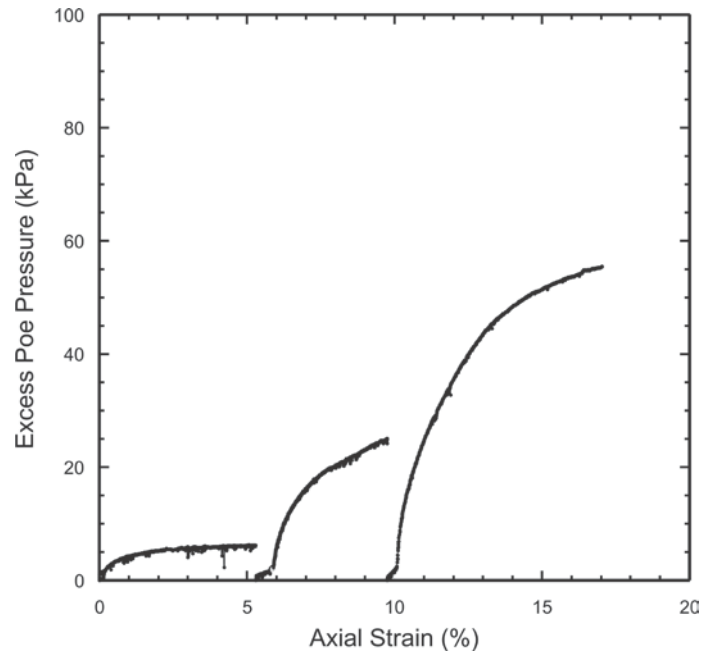


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2009804 0013PC (108-120 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2009804 0013PC (108-120 cm).

<i>Consolidation Pressure (kPa)</i>	<i>Sample Height (mm)</i>	<i>Bulk Density (g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity (m/s)</i>	<i>Max Shear Modulus (MPa)**</i>
9.20	117.763	1.55	2.03	88.4	12.12
49.60	106.751	2.02	1.65	173.0	60.45
99.40	99.496	2.38	1.45	250.2	149.20

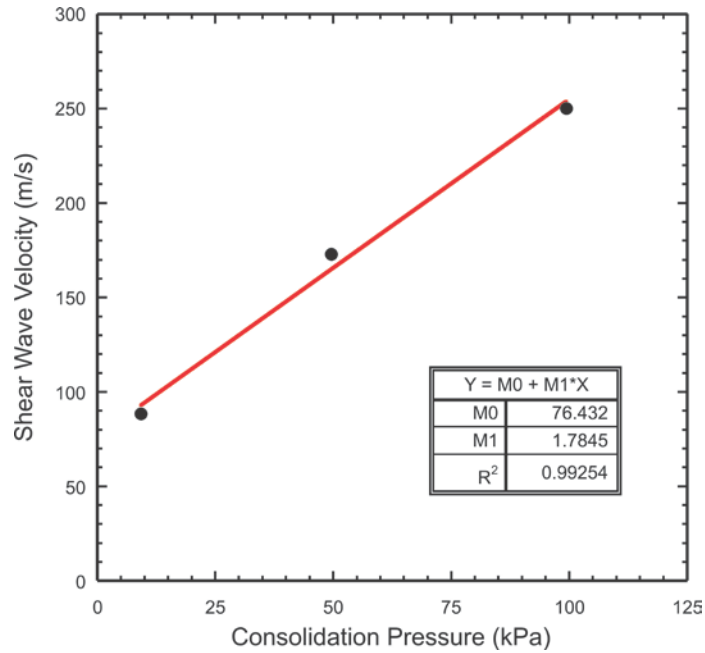


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2009804 0013PC (108-120 cm).

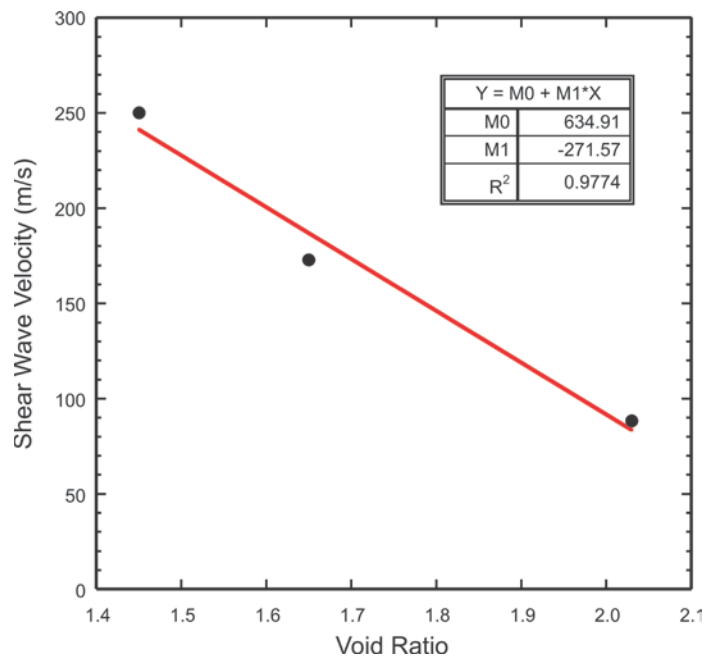


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2009804 0013PC (108-120 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0019PC 212-224 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
MAY 2010**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2009804 0019PC. The coordinates of the sample site are latitude 70.592128° and longitude -136.04254°. The water depth is 193.0 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_o and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 212 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.02 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 247 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 13.7 kPa, 48.8 kPa and 99.1 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 17.4%.

Shear wave (S_v) velocities were measured at the end of the consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.8 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.1% sand, 31.9% silt and 67.9% clay. The sample had an initial void ratio of 1.75, an initial water content of 64.4% and an initial unit weight of 16.3 kN/m^3 . The sample reached a maximum deviator stress of 62.91 kPa after shearing to 14.2% axial strain in three stages. The measured friction angle (ϕ') was 24.5° and the cohesive intercept (c') was 2.1 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1, and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 40.5 m/s at an effective stress of 2.0 kPa to 124.4 m/s at an effective stress of 99.1 kPa. The small strain shear modulus (G_{max}) increased from 2.73 MPa at an effective stress of 2.0 kPa to 43.54 MPa at an effective stress of 99.1 kPa. Note that P wave velocity was assumed to be 1500 m/sec for G_{max} calculations. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2009804 0019PC (212-224 cm).

<i>Cruise ID:</i>	<u>2006048</u>
<i>Borehole/Core:</i>	<u>019PC</u>
<i>Test No:</i>	<u>TEST1</u>
<i>Depth (cm):</i>	<u>212-224</u>
<i>Description of Sample:</i>	<u>Grey silty clay</u>
<i>Condition of Sample:</i>	<u>Very Good</u>
<i>Test Type:</i>	<u>CU multistage test</u>
<i>Date:</i>	<u>May 12/2010</u>
<i>Water Content Salt corr W_c (%) :</i>	<u>64.40</u>
<i>Diameter of Sample (cm):</i>	<u>4.80</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.66</u>
<i>Unit Weight γ_w(kN/m³):</i>	<u>16.30</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.01</u>
<i>Void Ratio:</i>	<u>1.75</u>
<i>Porosity (%):</i>	<u>63.65</u>
<i>Back Pressure (kPa):</i>	<u>247.0</u>
<i>Saturation Coefficient (B value):</i>	<u>1.00</u>
<i>Φ':</i>	<u>24.5</u>
<i>C':</i>	<u>2.1</u>
<i>S_u/σ'_v</i>	<u>0.34</u>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<u>0.27</u>
<i>A_f:</i>	<u>0.47</u>
<i>Initial Young's modulus E_i (MPa)</i>	<u>2.70</u>
<i>Liquid Limit (%):</i>	<u>62.58</u>
<i>Plastic Limit (%):</i>	<u>28.38</u>
<i>Plasticity Index (%):</i>	<u>34.19</u>
<i>Liquidity Index:</i>	<u>1.05</u>
<i>Classification:</i>	<u>CH</u>
<i>Sand (%):</i>	<u>0.1</u>
<i>Silt(%):</i>	<u>31.9</u>
<i>Clay(%):</i>	<u>67.9</u>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2009804 0019PC (212-224 cm).

<i>Consolidation Pressure</i> σ'_v (kPa)	<i>Deviator Stress</i> (kPa)	<i>Effective Average Mean Stress</i> s' (kPa)	<i>Maximum Shear Stress</i> t, t' (kPa)	A_f
13.73	17.96	15.67	8.98	0.47
48.83	34.72	39.97	17.36	0.81
99.12	62.91	70.06	31.46	1.00

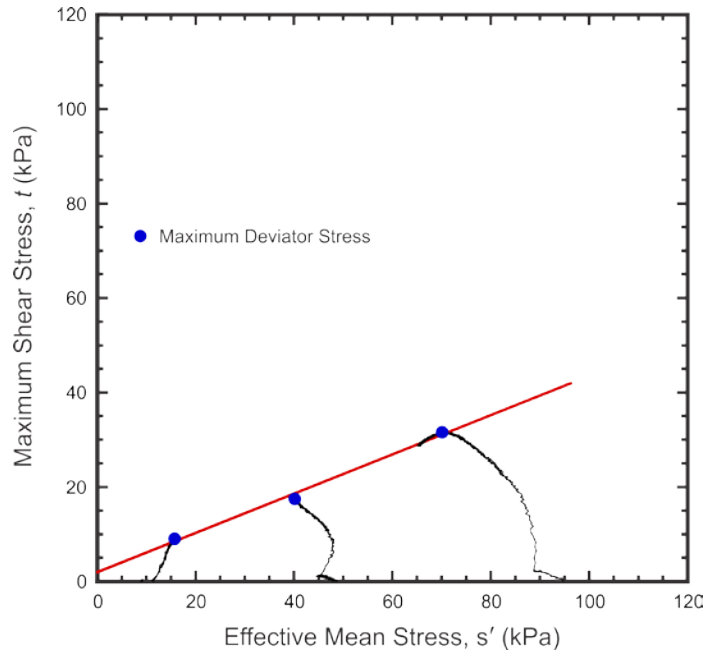


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2009804 0019PC (212-224 cm).

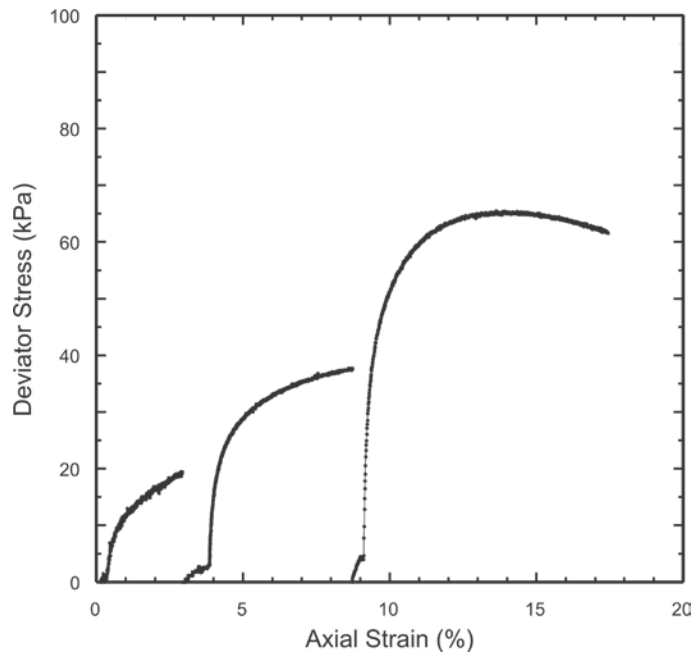


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2009804 0019PC (212-224 cm).

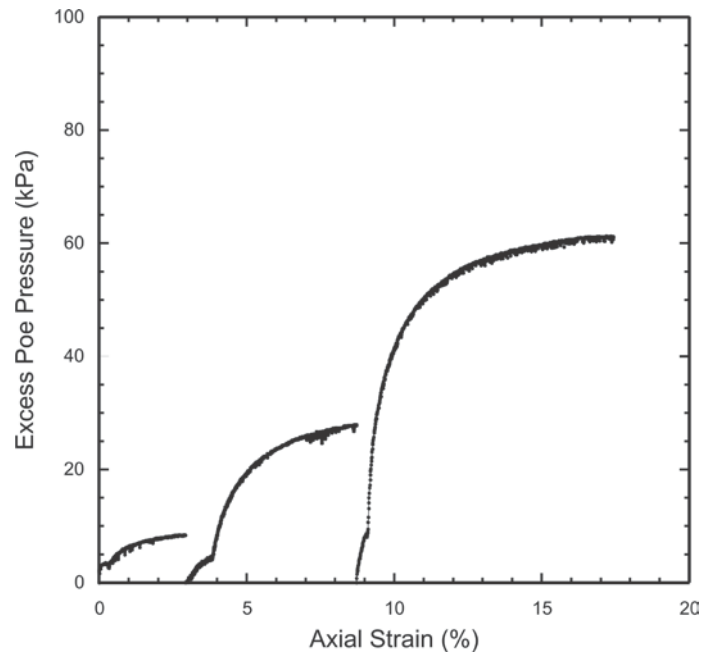


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2009804 0019PC (212-224 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2009804 0019PC (212-224 cm).

<i>Consolidation Pressure (kPa)</i>	<i>Sample Height (mm)</i>	<i>Bulk Density (g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity (m/s)</i>	<i>Max Shear Modulus (MPa)**</i>
2.0	120.19	1.66	1.75	40.5	2.73
13.73	117.65	1.70	1.58	57.9	5.72
48.83	111.96	1.75	1.42	97.1	16.47
99.12	103.29	1.86	1.27	124.4	43.54

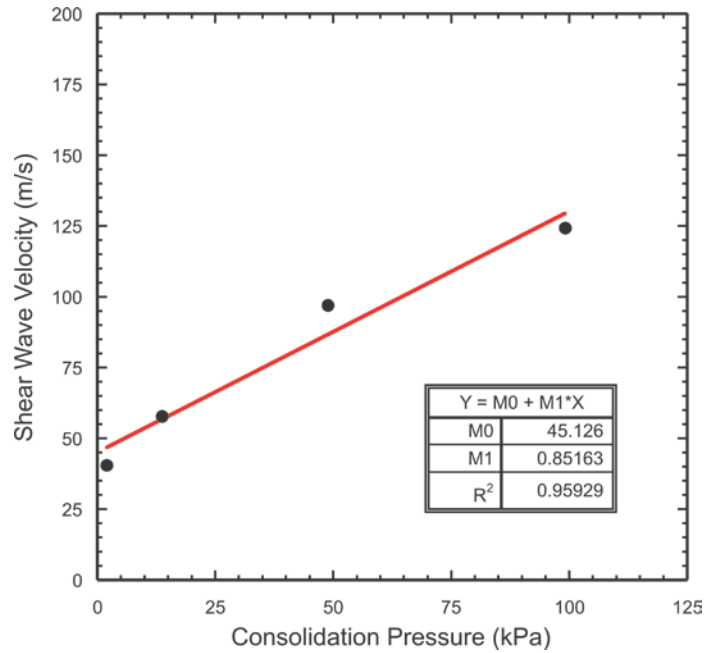


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2009804 0019PC (212-224 cm).

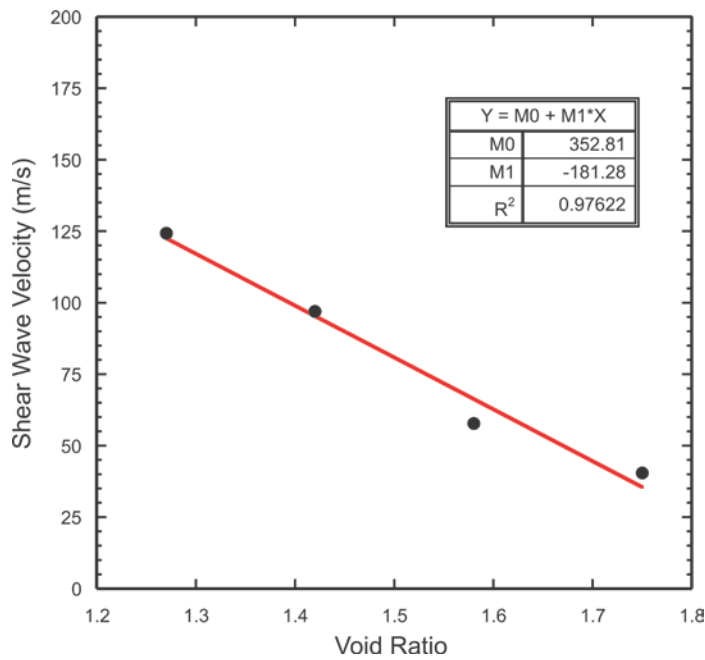


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2009804 0019PC (212-224 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0026PC 232-244 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
November 2010**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2009804 0026PC. The coordinates of the sample site are latitude 70.636757° and longitude -136.159531° . The water depth is 469.0 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_o and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 232 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.03 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 297 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 12.0 kPa, 49.3 kPa and 99.8 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 15.2%.

Shear wave (S_v) velocities were measured at the end of the consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.8 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.1% sand, 33.2% silt and 66.7% clay. The sample had an initial void ratio of 1.75, an initial water content of 65.5% and an initial unit weight of 16.2 kN/m^3 . The sample reached a maximum deviator stress of 65.01 kPa after shearing to 14.0% axial strain in three stages. The measured friction angle (ϕ') was 21.83° and the cohesive intercept (c') was 0.97 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1, and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 23.2 m/s at an effective stress of 1.0 kPa to 124.4 m/s at an effective stress of 99.8 kPa. The small strain shear modulus (G_{max}) increased from 0.89 MPa at an effective stress of 1.0 kPa to 27.53 MPa at an effective stress of 99.8 kPa. Note that P wave velocity was assumed to be 1500 m/sec for G_{max} calculations. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2009804 0026PC (232-244 cm).

<i>Cruise ID:</i>	<i>2009804</i>
<i>Borehole/Core:</i>	<i>0026PC</i>
<i>Test No:</i>	<i>2</i>
<i>Depth (cm):</i>	<i>232-244</i>
<i>Description of Sample:</i>	<i><u>Silty olive gray clay</u></i>
<i>Condition of Sample:</i>	<i><u>Very Good</u></i>
<i>Test Type:</i>	<i><u>CU multistage test</u></i>
<i>Date:</i>	<i><u>Nov 2/07</u></i>
<i>Water Content Salt corr W_c (%) :</i>	<i><u>65.46</u></i>
<i>Diameter of Sample (cm):</i>	<i><u>4.80</u></i>
<i>Bulk Density ρ_w (g/cm³):</i>	<i><u>1.65</u></i>
<i>Unit Weight γ_w (kN/m³):</i>	<i><u>16.16</u></i>
<i>Dry Density ρ_d (g/cm³):</i>	<i><u>1.00</u></i>
<i>Void Ratio:</i>	<i><u>1.75</u></i>
<i>Porosity (%):</i>	<i><u>63.59</u></i>
<i>Back Pressure (kPa):</i>	<i><u>296.8</u></i>
<i>Saturation Coefficient (B value):</i>	<i><u>0.99</u></i>
<i>Φ':</i>	<i><u>21.83</u></i>
<i>C':</i>	<i><u>0.97</u></i>
<i>S_u/σ'_v</i>	<i><u>0.34</u></i>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<i><u>0.27</u></i>
<i>A_f:</i>	<i><u>0.25</u></i>
<i>Initial Young's modulus E_i (kPa)</i>	<i><u>27.0</u></i>
<i>Liquid Limit (%):</i>	<i><u>63.51</u></i>
<i>Plastic Limit (%):</i>	<i><u>31.48</u></i>
<i>Plasticity Index (%):</i>	<i><u>32.02</u></i>
<i>Liquidity Index:</i>	<i><u>1.06</u></i>
<i>Classification:</i>	<i><u>CH</u></i>
<i>Sand (%):</i>	<i><u>0.1</u></i>
<i>Silt(%):</i>	<i><u>33.2</u></i>
<i>Clay(%):</i>	<i><u>66.7</u></i>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2009804 0026PC (232-244 cm).

<i>Consolidation Pressure</i>	<i>Deviator Stress</i>	<i>Effective Average Mean Stress</i>	<i>Maximum Shear Stress</i>	
<i>σ'_v (kPa)</i>	<i>(kPa)</i>	<i>s' (kPa)</i>	<i>t, t' (kPa)</i>	<i>A_f</i>
12.03	10.75	13.38	5.38	0.25
49.26	35.39	42.86	17.70	0.72
99.79	64.40	85.11	32.20	0.75

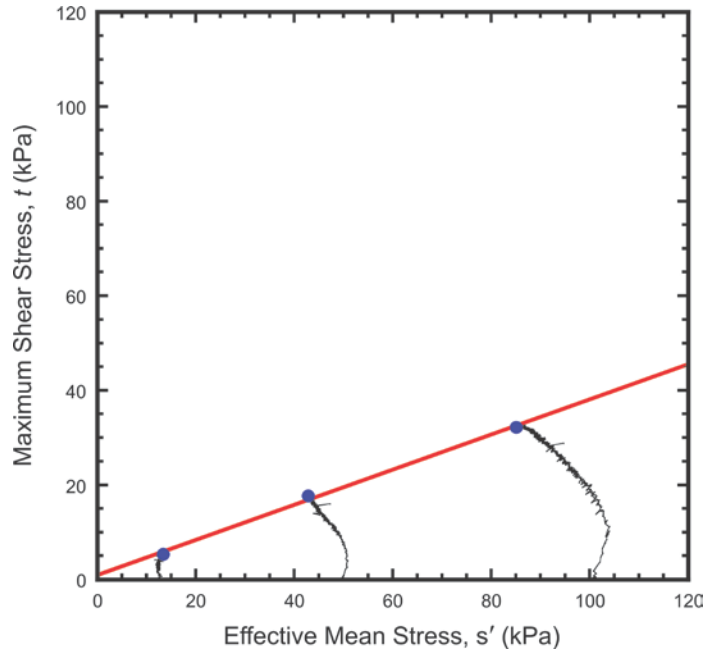


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2009804 0026PC (232-244 cm).

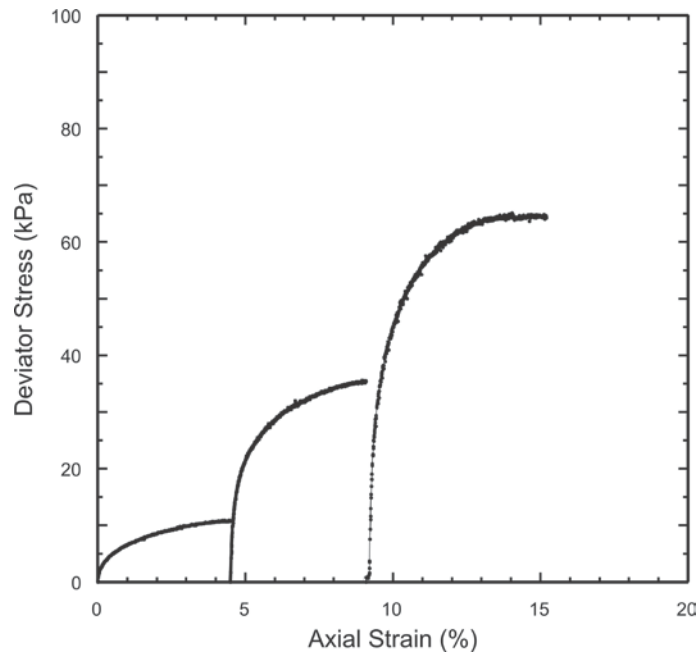


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2009804 0026PC (232-244 cm).

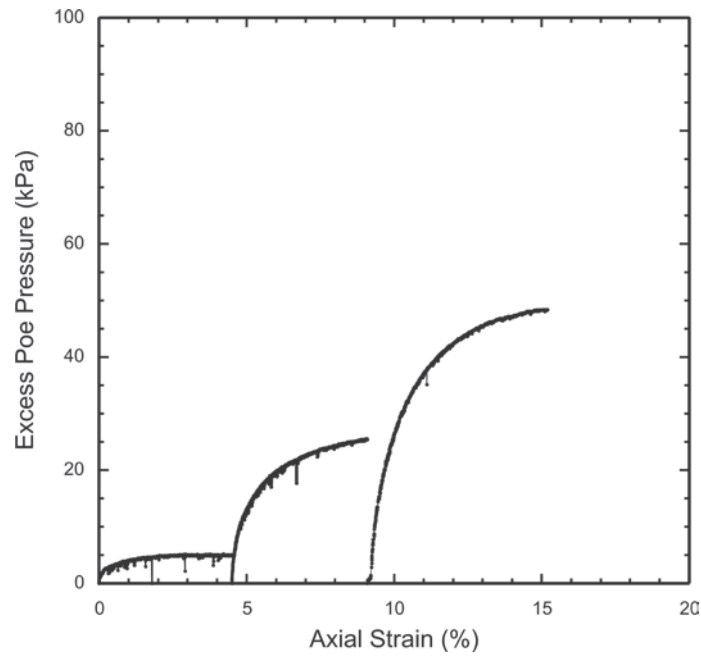


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2009804 0026PC (232-244 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2009804 0026PC (232-244 cm).

<i>Consolidation Pressure (kPa)</i>	<i>Sample Height (mm)</i>	<i>Bulk Density (g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity (m/s)</i>	<i>Max Shear Modulus (MPa)**</i>
1.0	120.25	1.65	1.75	23.2	0.89
12.03	117.84	1.69	1.58	52.5	4.65
49.26	109.39	1.75	1.36	95.2	15.83
99.79	102.92	1.78	1.26	124.4	27.53

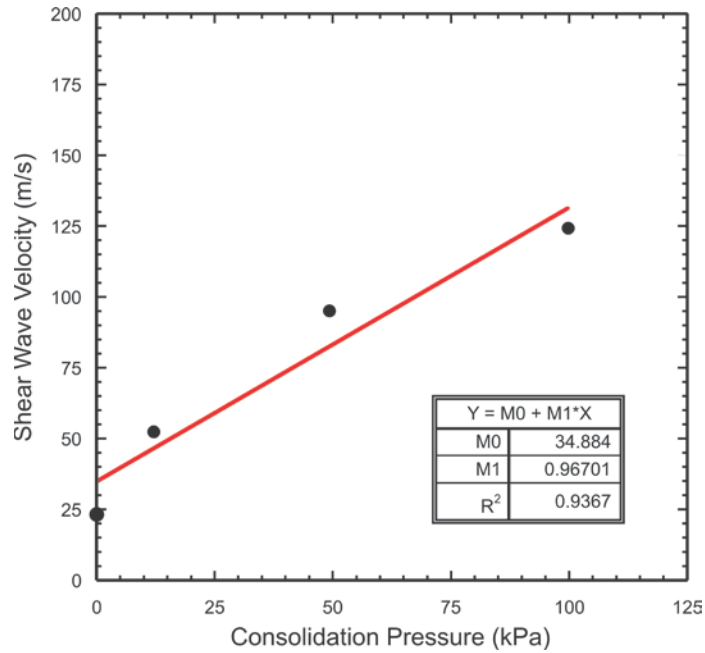


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2009804 0026PC (232-244 cm).

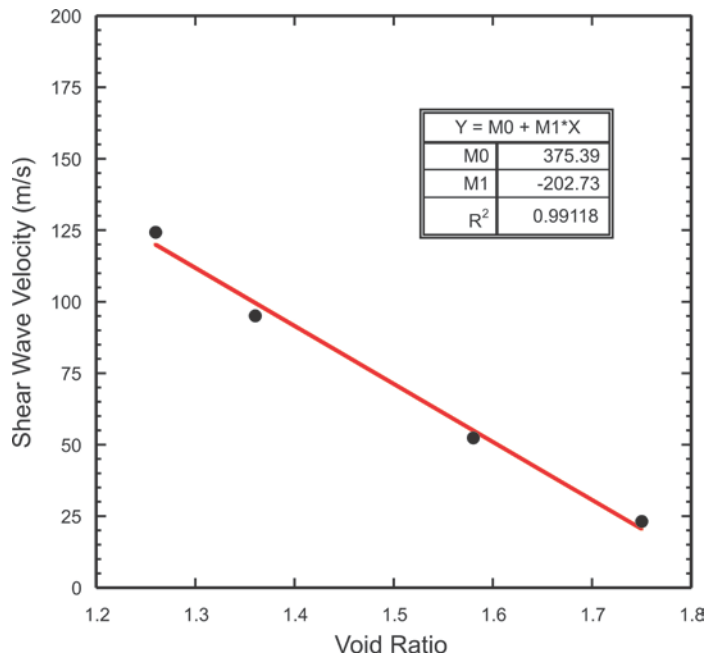


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2009804 0026PC (232-244 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0036PC 241-253 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
DECEMBER 2010**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2009804 0036PC. The coordinates of the sample site are latitude 70.674945° and longitude -136.019661°. The water depth is 444.0 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 241 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.02 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 323 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 11.3 kPa, 73.1 kPa and 149.1 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 13.5%.

Shear wave (S_v) and compressional wave (P_v) velocities were measured at the end of the saturation and consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.5 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.2% sand, 21.0% silt and 78.9% clay. The sample had an initial void ratio of 2.28, an initial water content of 87.4% and an initial unit weight of 15.57 kN/m^3 . The sample reached a maximum deviator stress of 78.0 kPa after shearing to 11.6 % axial strain in three stages. The measured friction angle (ϕ') was 20.0° and the cohesive intercept (c') was 1.9 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1 and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 27.4 m/s at an effective stress of 1.0 kPa to 148.4 m/s at an effective stress of 149.1 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2009804 0036PC (241-253 cm).

<i>Cruise ID:</i>	<i>2009804</i>
<i>Borehole/Core:</i>	<i>0036PC</i>
<i>Test No:</i>	<i>1</i>
<i>Depth (cm):</i>	<i>241-253cm</i>
<i>Description of Sample:</i>	<i>Olive grey clay</i>
<i>Condition of Sample:</i>	<i>Very Good</i>
<i>Test Type:</i>	<i>CU multistage test</i>
<i>Date:</i>	<i>Dec 9/2010</i>
<i>Water Content Salt corr W_c (%) :</i>	<i><u>87.39</u></i>
<i>Diameter of Sample (cm):</i>	<i><u>4.80</u></i>
<i>Bulk Density ρ_w (g/cm³):</i>	<i><u>1.59</u></i>
<i>Unit Weight γ_w(kN/m³):</i>	<i><u>15.57</u></i>
<i>Dry Density ρ_d (g/cm³):</i>	<i><u>0.85</u></i>
<i>Void Ratio:</i>	<i><u>2.28</u></i>
<i>Porosity (%):</i>	<i><u>69.52</u></i>
<i>Back Pressure (kPa):</i>	<i><u>323.0</u></i>
<i>Saturation Coefficient (B value):</i>	<i><u>0.99</u></i>
<i>Φ':</i>	<i><u>20.0</u></i>
<i>C':</i>	<i><u>1.9</u></i>
<i>Su/σ'_v</i>	<i><u>0.27</u></i>
<i>$Su/\sigma'_{v(corr)}$:</i>	<i><u>0.21</u></i>
<i>A_f:</i>	<i><u>0.71</u></i>
<i>Initial Young's modulus E_i (kPa)</i>	<i><u>2207.9</u></i>
<i>Liquid Limit (%):</i>	<i><u>72.96</u></i>
<i>Plastic Limit (%):</i>	<i><u>34.50</u></i>
<i>Plasticity Index (%):</i>	<i><u>38.46</u></i>
<i>Liquidity Index:</i>	<i><u>1.38</u></i>
<i>Classification:</i>	<i><u>CH</u></i>
<i>Sand (%):</i>	<i><u>0.2</u></i>
<i>Silt(%):</i>	<i><u>21.0</u></i>
<i>Clay(%):</i>	<i><u>78.9</u></i>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2009804 0036PC (241-253 cm).

<i>Consolidation Pressure σ'_v (kPa)</i>	<i>Deviator Stress (kPa)</i>	<i>Effective Average Mean Stress s' (kPa)</i>	<i>Maximum Shear Stress t, t' (kPa)</i>	<i>A_f</i>
11.03	11.03	10.68	5.52	0.71
74.13	41.25	55.69	20.62	0.98
149.08	76.59	106.28	38.30	1.04

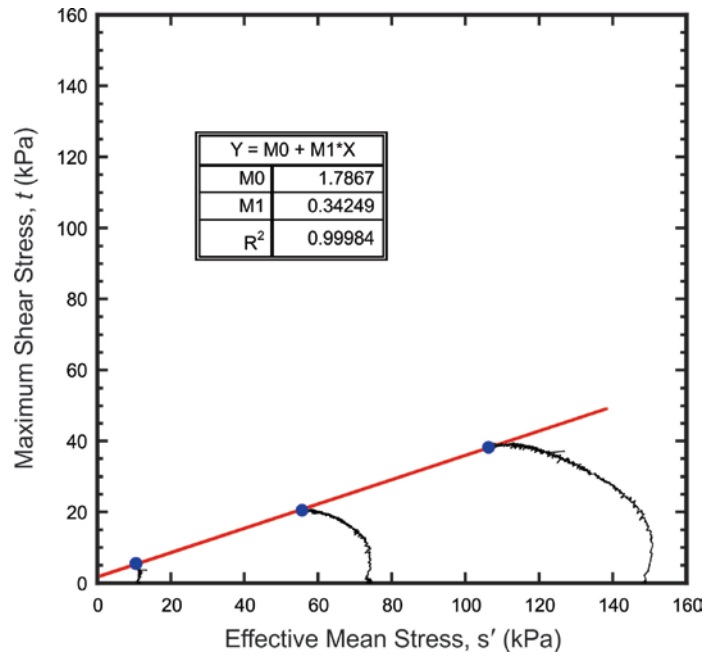


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (241-253 cm).

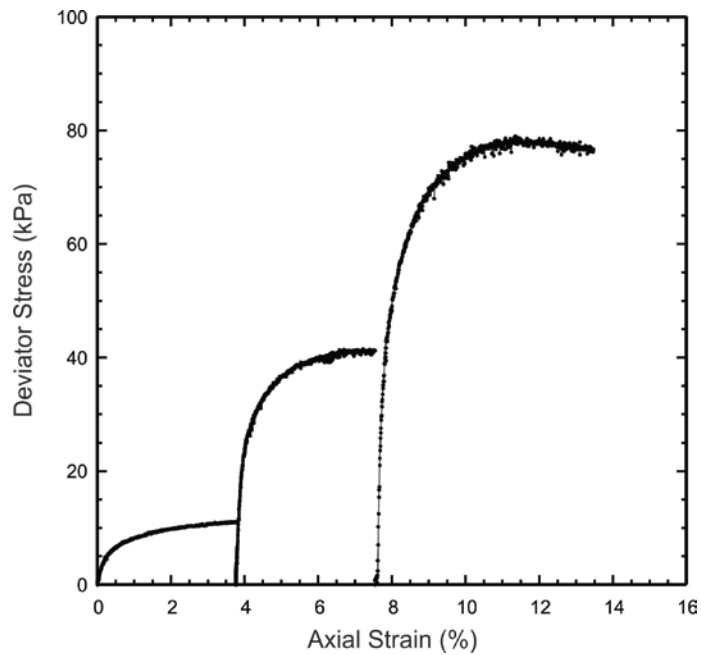


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (241-253 cm).

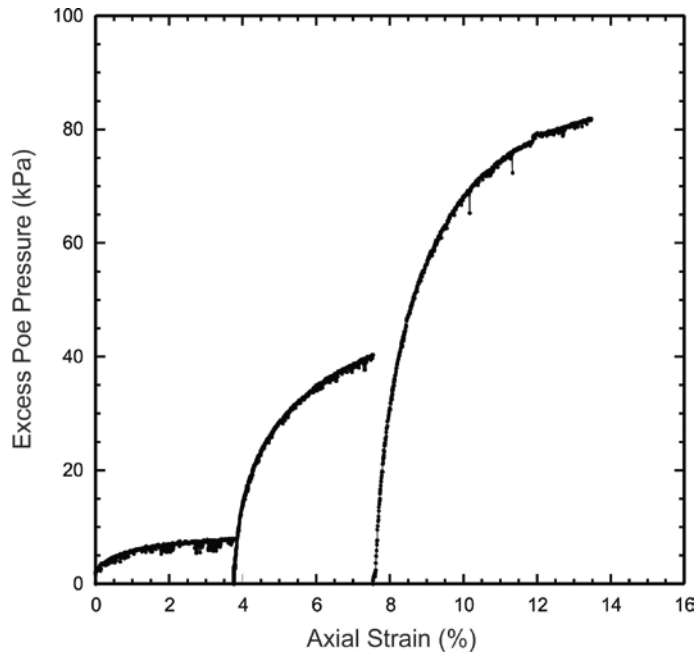


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (241-253 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2009804 0036PC (241-253 cm).

<i>Consolidation Pressure (kPa)</i>	<i>Sample Height (mm)</i>	<i>Bulk Density (g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity (m/s)</i>	<i>Max Shear Modulus (MPa)**</i>
1.0	120.1	1.59	2.28	27.4	1.19
11.0	119.0	1.62	2.07	51.1	4.25
74.1	108.0	1.73	1.61	108.6	20.41
149.1	103.0	1.79	1.41	148.4	61.95

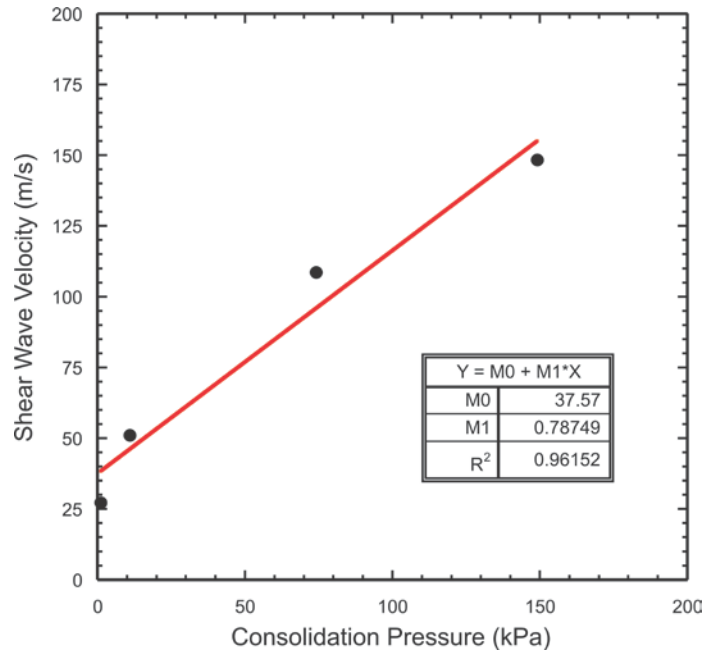


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2009804 0036PC (241-253 cm).

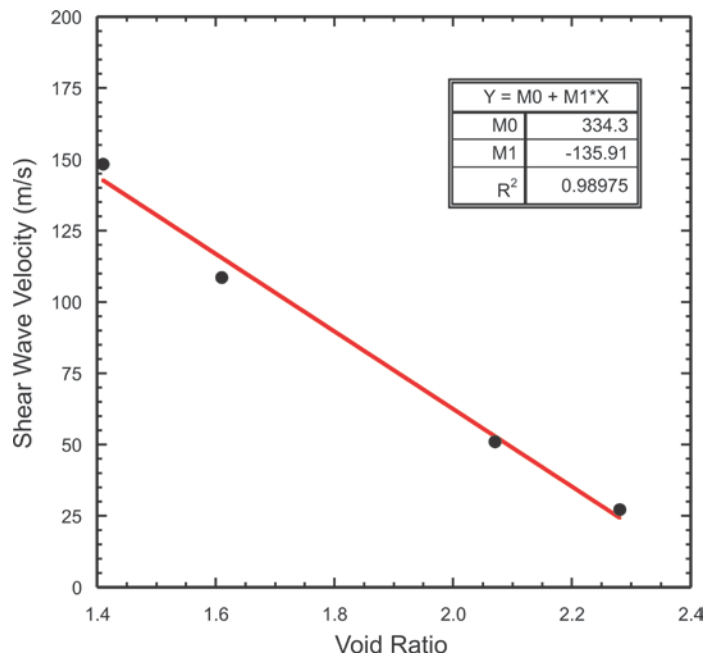


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2009804 0036PC (241-253 cm).

TRIAxIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2009804 0036PC 688-700 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
NOVEMBER 2010**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2009804 0036PC. The coordinates of the sample site are latitude 70.674945° and longitude -136.019661°. The water depth is 444.0 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 686 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.00 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 300.0 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 35.6 kPa, 99.1 kPa and 199.2 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 14.1%.

Shear wave (S_v) velocities were measured at the end of the saturation and consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.5 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.13% sand, 18.98% silt and 80.89% clay. The sample had an initial void ratio of 1.93, an initial water content of 71.8% and an initial unit weight of 15.85 kN/m^3 . The sample reached a maximum deviator stress of 120.0 kPa after shearing to 13.9 % axial strain in three stages. The measured friction angle (ϕ') was 21.7° and the cohesive intercept (c') was 4.2 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1 and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 28.6 m/s at an effective stress of 1.0 kPa to 166.7 m/s at an effective stress of 199.2 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2009804 0036PC (688-700 cm).

<i>Cruise ID:</i>	<i>2009804</i>
<i>Borehole/Core:</i>	<i>0036PC</i>
<i>Test No:</i>	<i>1</i>
<i>Depth (cm):</i>	<i>688-700cm</i>
<i>Description of Sample:</i>	<i><u>Silty olive gray</u></i>
<i>Condition of Sample:</i>	<i><u>Very Good</u></i>
<i>Test Type:</i>	<i><u>CU multistage test</u></i>
<i>Date:</i>	<i><u>Nov 23/2010</u></i>
<i>Water Content Salt corr W_c (%) :</i>	<i><u>71.81</u></i>
<i>Diameter of Sample (cm):</i>	<i><u>4.60</u></i>
<i>Bulk Density ρ_w (g/cm³):</i>	<i><u>1.62</u></i>
<i>Unit Weight γ_w (kN/m³):</i>	<i><u>15.85</u></i>
<i>Dry Density ρ_d (g/cm³):</i>	<i><u>0.94</u></i>
<i>Void Ratio:</i>	<i><u>1.93</u></i>
<i>Porosity (%):</i>	<i><u>65.90</u></i>
<i>Back Pressure (kPa):</i>	<i><u>300.00</u></i>
<i>Saturation Coefficient (B value):</i>	<i><u>0.99</u></i>
<i>Φ':</i>	<i><u>21.7</u></i>
<i>C':</i>	<i><u>4.2</u></i>
<i>S_u/σ'_v</i>	<i><u>0.31</u></i>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<i><u>0.25</u></i>
<i>A_f:</i>	<i><u>0.72</u></i>
<i>Initial Young's modulus E_i (kPa)</i>	<i><u>8644.5</u></i>
<i>Liquid Limit (%):</i>	<i><u>71.79</u></i>
<i>Plastic Limit (%):</i>	<i><u>33.19</u></i>
<i>Plasticity Index (%):</i>	<i><u>38.60</u></i>
<i>Liquidity Index:</i>	<i><u>1.0</u></i>
<i>Classification:</i>	<i><u>CH</u></i>
<i>Sand (%):</i>	<i><u>0.13</u></i>
<i>Silt(%):</i>	<i><u>18.98</u></i>
<i>Clay(%):</i>	<i><u>80.89</u></i>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2009804 0036PC (688-700 cm).

<i>Consolidation Pressure</i>	<i>Deviator Stress</i>	<i>Effective Average Mean Stress</i>	<i>Maximum Shear Stress</i>	<i>A_f</i>
<i>σ'_v (kPa)</i>	<i>(kPa)</i>	<i>s' (kPa)</i>	<i>t, t' (kPa)</i>	
35.61	29.83	31.62	14.80	0.72
99.11	64.33	73.29	32.17	0.92
199.18	119.39	151.59	59.70	0.91

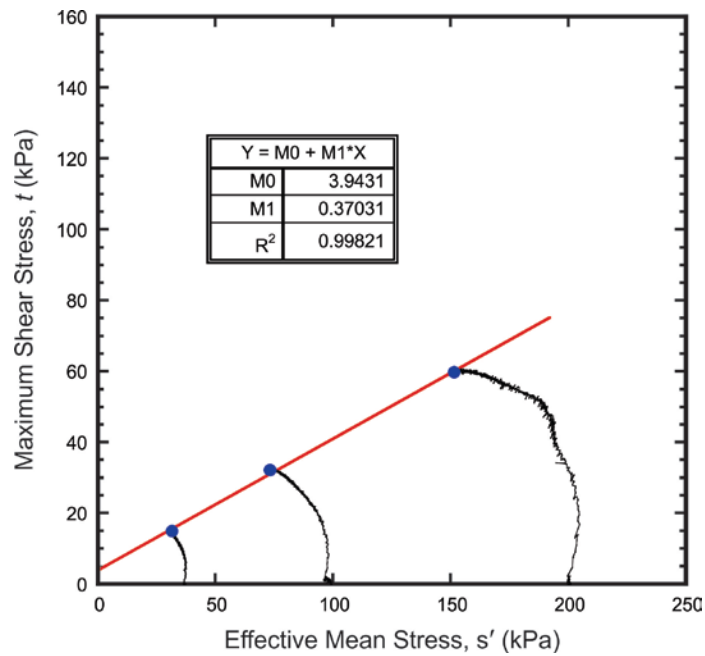


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (688-700 cm).

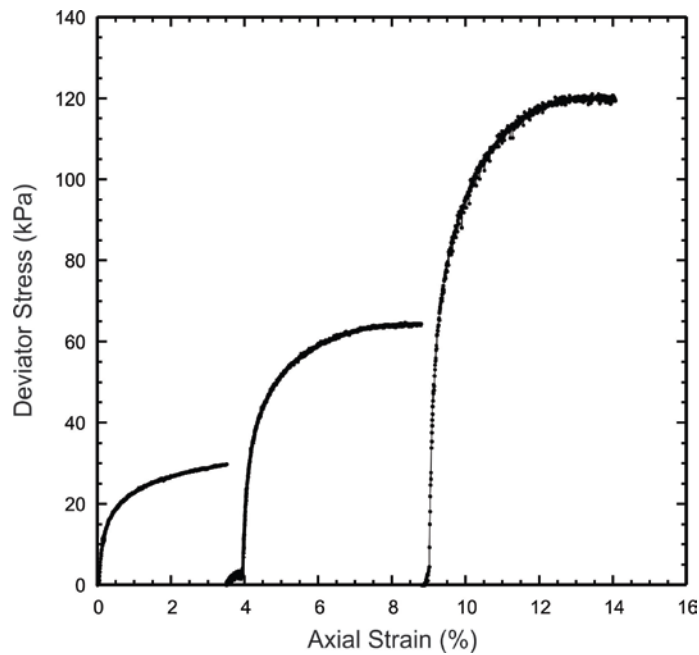


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (688-700 cm).

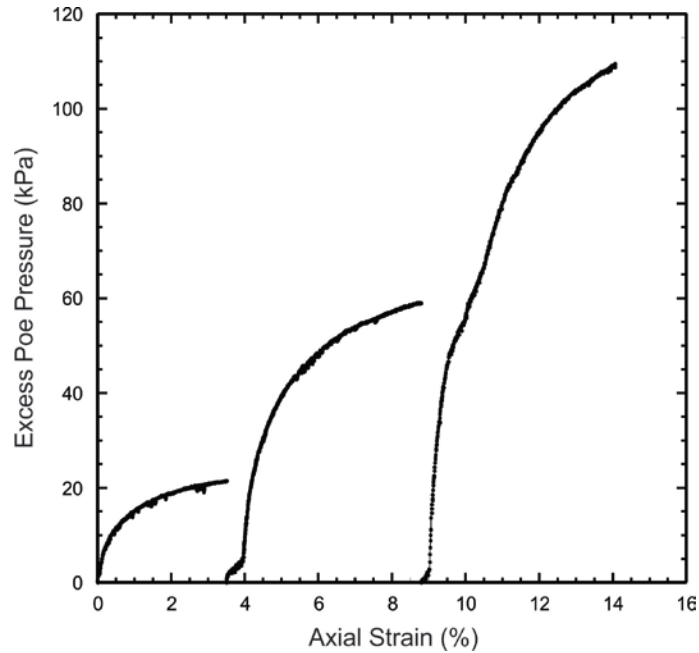


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2009804 0036PC (688-700 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2009804 0036PC (688-700 cm).

<i>Consolidation Pressure</i> <i>kPa</i>	<i>Sample Height</i> <i>(mm)</i>	<i>Bulk Density</i> <i>(g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity</i> <i>(m/s)</i>	<i>Max Shear Modulus</i> <i>(MPa)</i>
1.0	119.97	1.62	1.93	28.6	1.33
35.61	118.47	1.69	1.60	83.9	11.90
99.11	110.87	1.76	1.36	125.9	27.84
199.18	102.14	1.82	1.17	166.7	78.14

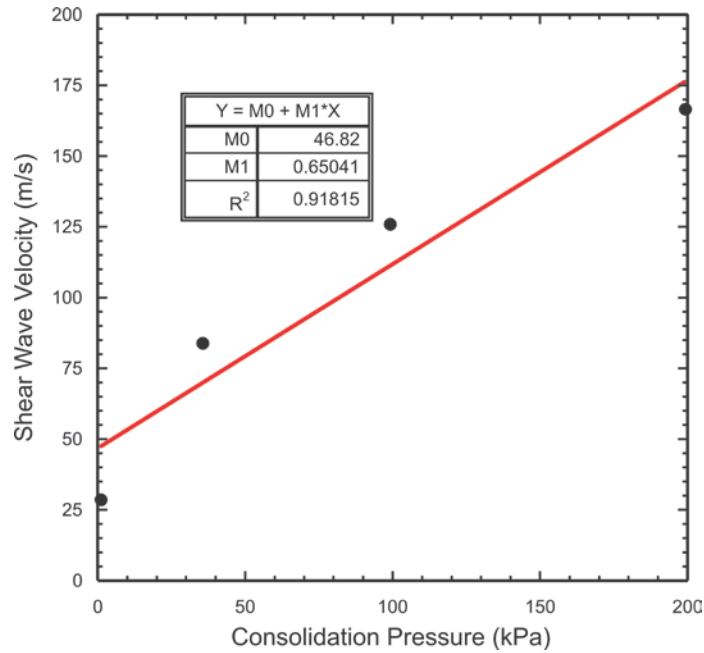


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2009804 0036PC (688-700 cm).

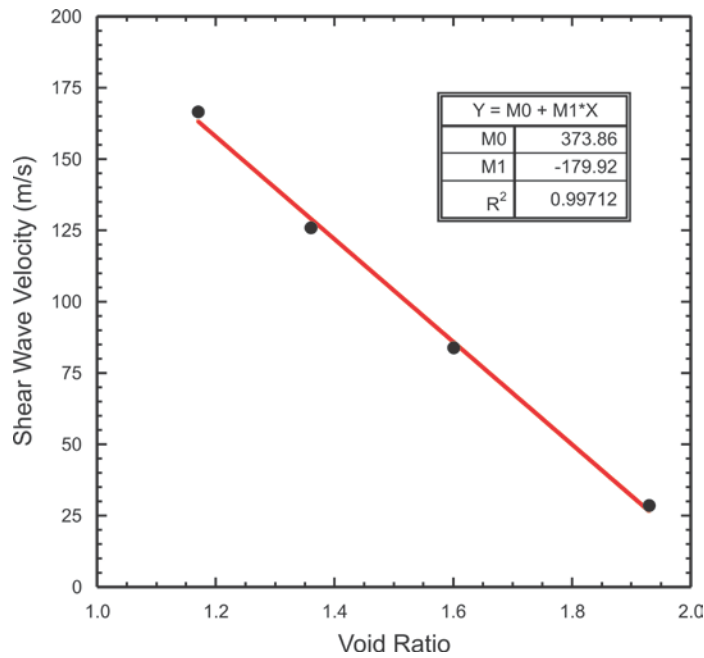


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2009804 0036PC (688-700 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0024PC 261-273 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
SEPTEMBER 2011**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0024PC. The coordinates of the sample site are latitude 70.914685° and longitude -134.808047°. The water depth is 182.4 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 261. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.04 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 298 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 24.3 kPa, 99.3 kPa and 199.2 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 12.3%.

Shear wave (S_v) velocities were measured at the end of the saturation and consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.5 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey lean (CL) silty clay. Hydrometer (ASTM D422) grain size results were 4.6% sand, 39.7% silt and 55.73% clay. The sample had an initial void ratio of 0.90, an initial water content of 34.46% and an initial unit weight of 18.96 kN/m^3 . The sample reached a maximum deviator stress of 156.0 kPa after shearing to 11.52 % axial strain in three stages. The measured friction angle (ϕ') was 22.9° and the cohesive intercept (c') was 6.18 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1 and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 75.9 m/s at an effective stress of 24.3 kPa to 192.7 m/s at an effective stress of 199.3 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2010804 0024PC (261-273 cm).

<i>Cruise ID:</i>	2010804
<i>Borehole/Core:</i>	0024pc
<i>Test No:</i>	1
<i>Depth (cm):</i>	261-273
<i>Description of Sample:</i>	<u>Silty olive gray clay</u>
<i>Condition of Sample:</i>	<u>Very Good</u>
<i>Test Type:</i>	<u>CU multistage test</u>
<i>Date:</i>	<u>16-Sep-11</u>
<i>Water Content Salt corr W_c (%) :</i>	<u>34.46</u>
<i>Diameter of Sample (cm):</i>	<u>4.89</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.93</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>18.96</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.44</u>
<i>Void Ratio:</i>	<u>0.89</u>
<i>Porosity (%):</i>	<u>47.22</u>
<i>Back Pressure (kPa):</i>	<u>298.0</u>
<i>Saturation Coefficient (B value):</i>	<u>0.99</u>
<i>Φ':</i>	<u>22.9</u>
<i>C':</i>	<u>6.2</u>
<i>S_u/σ'_v</i>	<u>0.39</u>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<u>0.31</u>
<i>A_f:</i>	<u>0.35</u>
<i>Initial Young's modulus E_i (kPa)</i>	<u>6846.7</u>
<i>Liquid Limit (%):</i>	<u>43.35</u>
<i>Plastic Limit (%):</i>	<u>22.78</u>
<i>Plasticity Index (%):</i>	<u>20.57</u>
<i>Liquidity Index:</i>	<u>0.57</u>
<i>Classification:</i>	<u>CL</u>
<i>Sand (%):</i>	<u>4.6</u>
<i>Silt(%):</i>	<u>39.7</u>
<i>Clay(%):</i>	<u>55.7</u>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2010804 0024PC (261-273 cm).

<i>Consolidation Pressure</i> σ'_v (kPa)	<i>Deviator Stress</i> (kPa)	<i>Effective Average Mean Stress</i> s' (kPa)	<i>Maximum Shear Stress</i> t, t' (kPa)	<i>A_f</i>
24.28	33.67	28.81	16.83	0.35
99.32	83.20	91.43	41.60	0.59
199.24	155.50	185.54	77.75	0.56

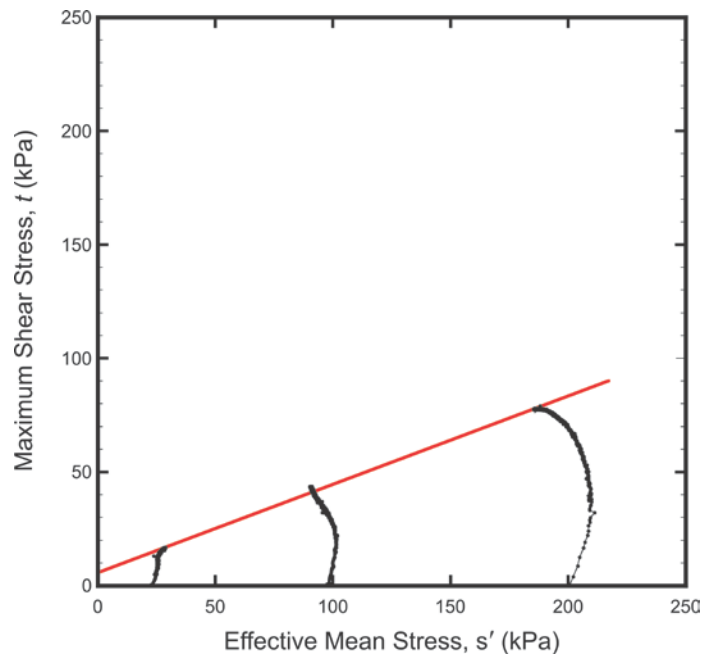


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2010804 0024PC (261-273 cm).

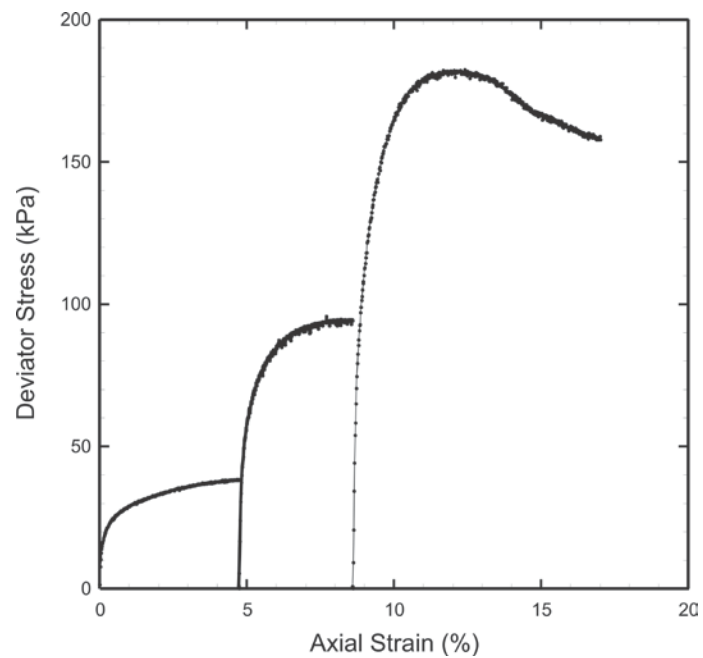


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2010804 0024PC (261-273 cm).

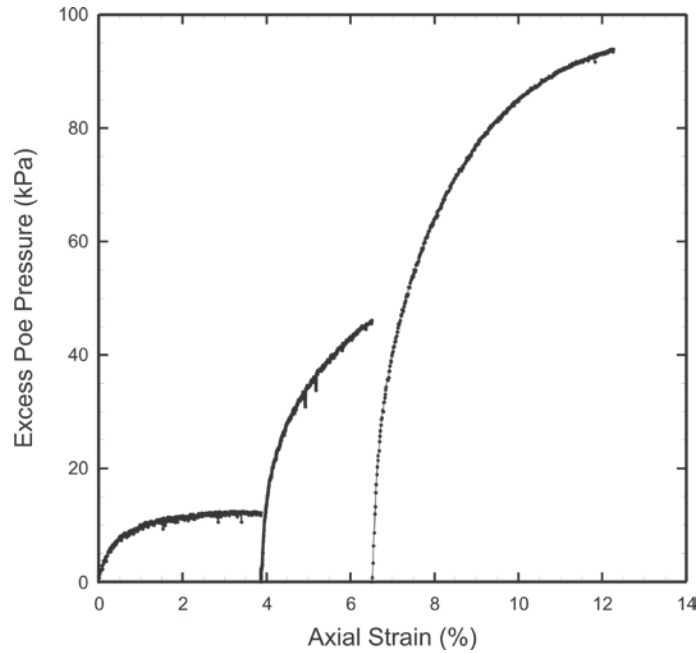


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2010804 0024PC (261-273 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2010804 0024PC (261-273 cm).

<i>Consolidation Pressure</i> <i>kPa</i>	<i>Sample Height</i> <i>(mm)</i>	<i>Bulk Density</i> <i>(g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity</i> <i>(m/s)</i>	<i>Max Shear Modulus</i> <i>(MPa)**</i>
1.0	119.86	1.93	0.89	23.4	1.05
24.28	118.72	1.96	0.84	78.3	12.02
99.32	112.07	2.01	0.74	131.4	34.79
199.24	105.11	2.05	0.67	192.7	76.19

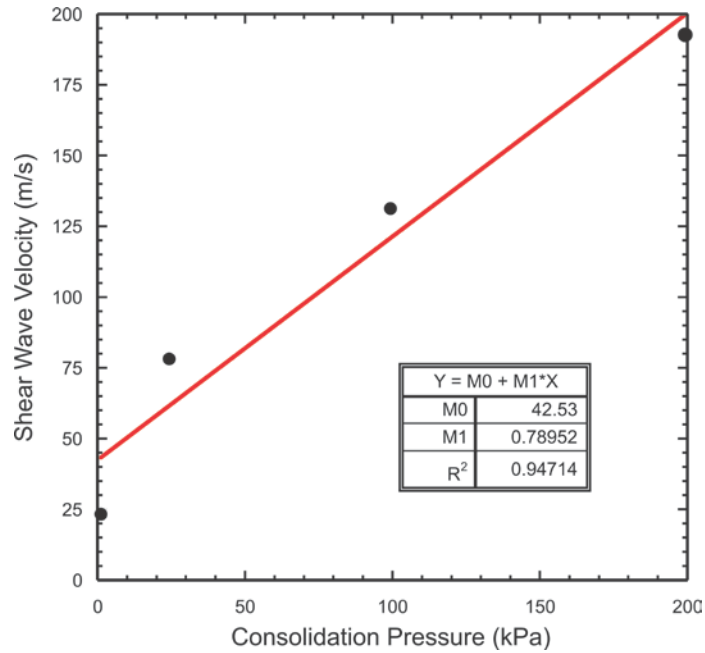


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2010804 0024PC (261-273 cm).

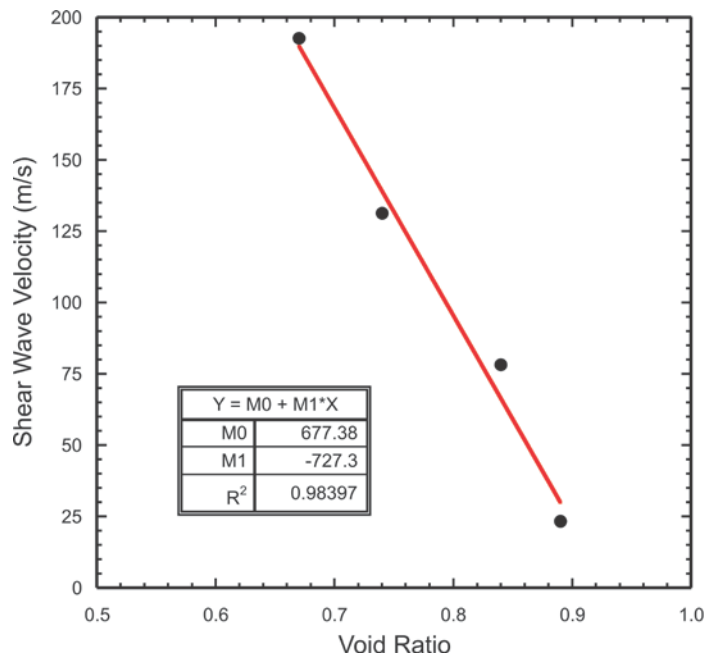


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2010804 0024PC (261-273 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0036PC 698-710 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
February 2012**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0036PC. The coordinates of the sample site are latitude 70.928576° and longitude -134.837663°. The water depth is 254.6 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 698 cm. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 11.96 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 250 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.97 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 44.1 kPa, 149.3 kPa and 299.2 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 14.9 %.

Shear wave (S_v) velocities were measured at the end of the saturation and consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.1 ms to 0.5 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey fat (CH) clay. Hydrometer (ASTM D422) grain size results were 0.6% sand, 17.7% silt and 81.7% clay. The sample had an initial void ratio of 1.8, an initial water content of 66.1% and an initial unit weight of 16.07 kN/m^3 . The sample reached a maximum deviator stress of 196.71 kPa after shearing to 14.94 % axial strain in three stages. The measured friction angle (ϕ') was 22.6° and the cohesive intercept (c') was 3.36 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in tables 1 and 2 and figures 1, 2 and 3.

The S_v velocities increased from 42.1 m/s at an effective stress of 44.1 kPa to 206.2 m/s at an effective stress of 299.2 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2010804 0036PC (698-710 cm).

<i>Cruise ID:</i>	<u>2010804</u>
<i>Borehole/Core:</i>	<u>0036pc</u>
<i>Test No:</i>	<u>1</u>
<i>Depth (cm):</i>	<u>698-710</u>
<i>Description of Sample:</i>	<u>Silty olive gray</u>
<i>Condition of Sample:</i>	<u>Very Good</u>
<i>Test Type:</i>	<u>CIU multistage test</u>
<i>Date:</i>	<u>24-Feb-12</u>
<i>Water Content Salt corr W_c (%) :</i>	<u>66.09</u>
<i>Diameter of Sample (cm):</i>	<u>4.80</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.64</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>16.07</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>0.99</u>
<i>Void Ratio:</i>	<u>1.80</u>
<i>Porosity (%):</i>	<u>64.25</u>
<i>Back Pressure (kPa):</i>	<u>250.0</u>
<i>Saturation Coefficient (B value):</i>	<u>0.97</u>
<i>Φ':</i>	<u>22.61</u>
<i>C':</i>	<u>3.36</u>
<i>S_u/σ'_v</i>	<u>0.32</u>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<u>0.26</u>
<i>A_f:</i>	<u>0.60</u>
<i>Initial Young's modulus E_i (kPa)</i>	<u>7995.4</u>
<i>Liquid Limit (%):</i>	<u>61.45</u>
<i>Plastic Limit (%):</i>	<u>28.18</u>
<i>Plasticity Index (%):</i>	<u>33.27</u>
<i>Liquidity Index:</i>	<u>1.12</u>
<i>Classification:</i>	<u>CH</u>
<i>Sand (%):</i>	<u>0.6</u>
<i>Silt (%):</i>	<u>17.7</u>
<i>Clay (%):</i>	<u>81.7</u>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2010804 0036PC (698-710 cm).

<i>Consolidation Pressure</i>	<i>Deviator Stress</i>	<i>Effective Average Mean Stress</i>	<i>Maximum Shear Stress</i>	<i>A_f</i>
<i>σ'_v (kPa)</i>	<i>(kPa)</i>	<i>s' (kPa)</i>	<i>t, t' (kPa)</i>	
44.10	31.25	39.14	15.62	0.60
149.33	95.84	118.05	47.92	0.84
299.20	196.71	247.27	98.36	0.75

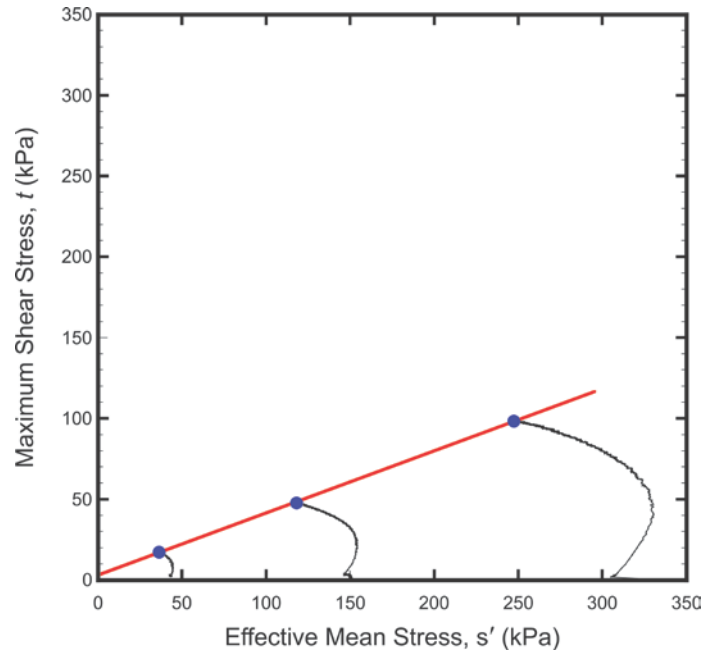


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2010804 0036PC (698-710 cm).

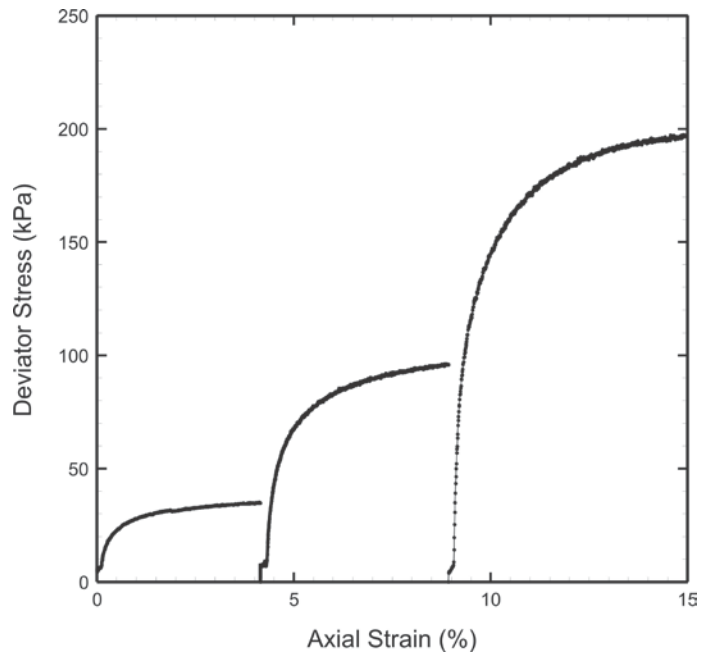


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2010804 0036PC (698-710 cm).

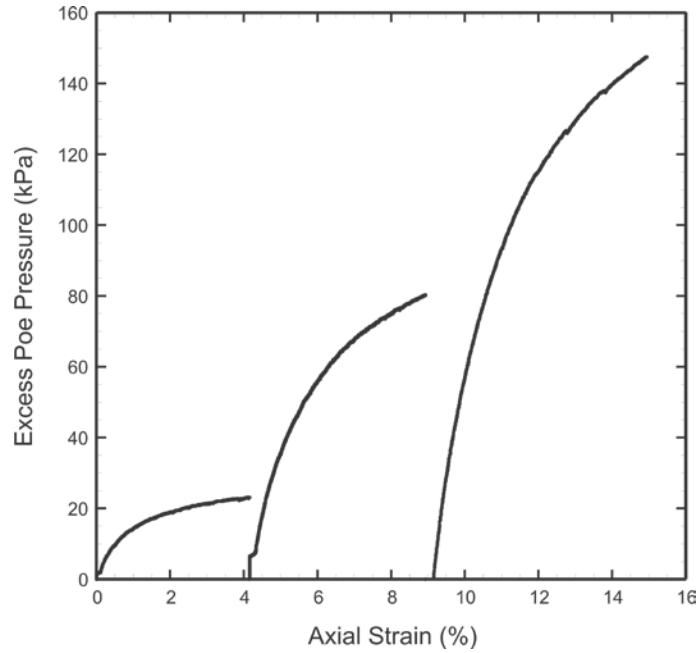


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2010804 0036PC (698-710 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2010804 0036PC (698-710 cm).

<i>Consolidation Pressure</i> <i>kPa</i>	<i>Sample Height</i> <i>(mm)</i>	<i>Bulk Density</i> <i>(g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity</i> <i>(m/s)</i>	<i>Max Shear Modulus</i> <i>(MPa)**</i>
3.8	119.39	1.64	1.80	42.1	2.91
44.10	114.55	1.73	1.42	91.8	14.62
149.33	105.64	1.82	1.15	151.4	41.83
299.20	97.97	1.89	0.98	206.6	80.81

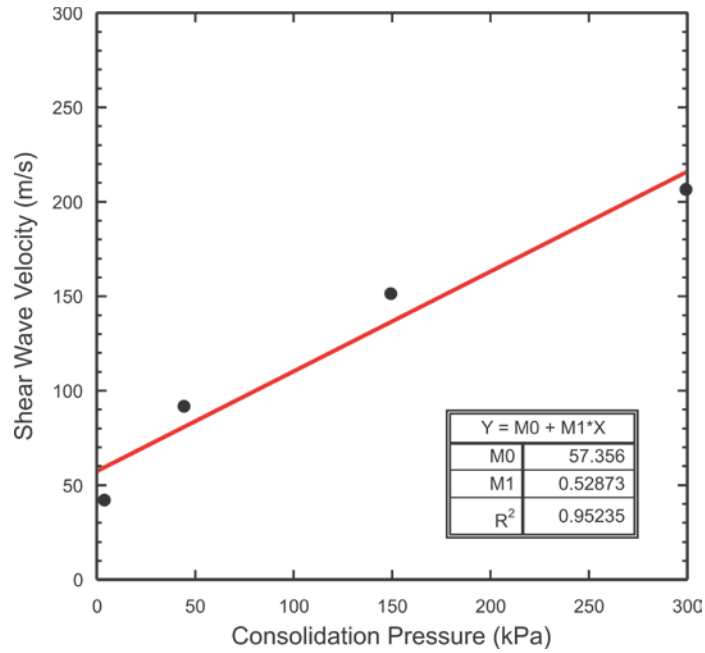


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2010804 0036PC (698-710 cm).

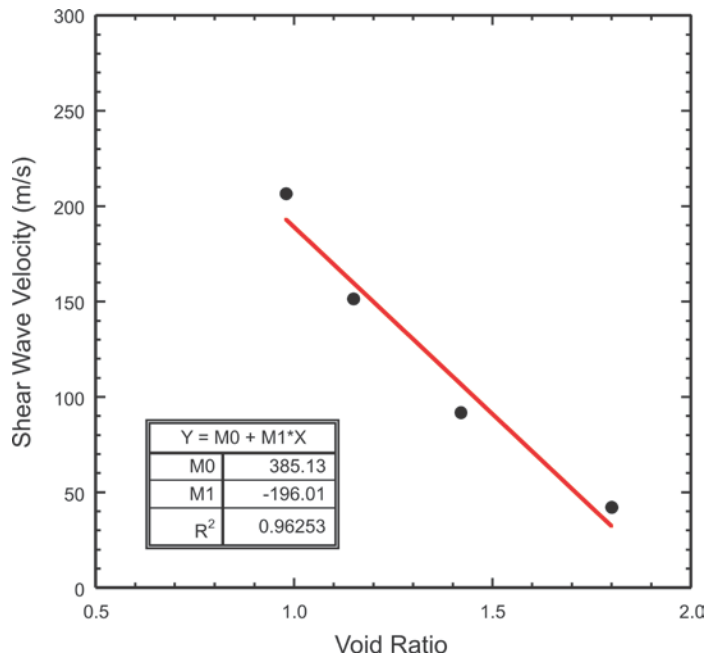


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2010804 0036PC (698-710 cm).

TRIAXIAL - BENDER ELEMENTS TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0056PC 409-421 cm

**GSC - ATLANTIC
MARINE GEOMECHANICS LABORATORY
April 20112**

1 INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0024PC. The coordinates of the sample site are latitude 71.190056° and longitude -135.353741°. The water depth is 879.4 m.

2 TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 50 mm Bishop & Wesley triaxial cell, 3 GDS 2 MPa pressure/volume controllers, a 5 KN submersible load cell, pore pressure transducer, linear displacement transducer, a computer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

GDS bender elements were used to measure shear wave and compressional wave velocities during the CIU test. The elements are made from piezoelectric ceramic bimorphs. Two sheets are bonded together with a metal shim in between. An excitation voltage is used to produce a displacement in the source transducer, resulting in a wave being sent through the sample. The system comprises 2 bender elements inserted into the top cap and base pedestal, external control box with a high speed 16 bit data acquisition and control card and GDS software. The software allows for stacking of data and user control of source signals.

3 TEST PROCEDURE

A sample was taken at a core depth of 409. A thin-walled sampling tube (14 cm, 50 cm ID) with a sharp cutting edge was pushed into the core and then extruded with sediment from the core liner. The sample was trimmed in the sampling tube with a wire saw to a height of 12.02 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split form secured on the base pedestal. The sample was backpressured to 246.4 kPa to ensure 100% saturation. A B pore pressure parameter value of 0.99 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 26.2 kPa, 99.2 kPa and 199.3 kPa. The sample was sheared at a rate of 0.04 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 16.4%.

Shear wave (S_v) velocities were measured at the end of the saturation and consolidation stages. The wave type used for the S_v measurements was a sine wave with a wave period ranging from 0.2 ms to 0.8 ms.

4 METHODOLOGY

The GDS pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressures, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t) and Skempton's A_f value. The initial Young's Modulus (E_i) was determined from the slope of the initial linear portion of the stress-strain curve. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

Shear wave (S_v) velocities were calculated using the sample height determined at the end of the saturation and consolidation stages and the travel time measured from the source and received signals. The travel time for the S_v determination was measured from peak to peak of the source and receives signals.

5 RESULTS

The sample is silty dark olive grey lean (CL) silty clay. Hydrometer (ASTM D422) grain size results were 0.0% sand, 10.4% silt and 89.4% clay. The sample had an initial void ratio of 1.74, an initial water content of 62.61% and an initial unit weight of 16.43 kN/m^3 . The sample reached a maximum deviator stress of 99.1 kPa after shearing to 12.1% axial strain in three stages. The measured friction angle (ϕ') was 16.0° and the cohesive intercept (c') was 4.9 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Tables 1 and 2 and Figures 1, 2 and 3.

The S_v velocities increased from 75.9 m/s at an effective stress of 24.3 kPa to 192.7 m/s at an effective stress of 199.3 kPa. All reported data are at the laboratory temperature of $22^\circ\text{C} \pm 1^\circ\text{C}$. The results are summarized in Table 3 and figures 4 and 5.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2010804 0056PC (409-421 cm).

<i>Cruise ID:</i>	2010804
<i>Borehole/Core:</i>	0056pc
<i>Test No:</i>	1
<i>Depth (cm):</i>	409-421
<i>Description of Sample:</i>	<u>Silty olive gray clay</u>
<i>Condition of Sample:</i>	<u>Very Good</u>
<i>Test Type:</i>	<u>CU multistage test</u>
<i>Date:</i>	<u>26-Apr-12</u>
<i>Water Content Salt corr W_c (%) :</i>	<u>62.61</u>
<i>Diameter of Sample (cm):</i>	<u>4.73</u>
<i>Bulk Density ρ_w (g/cm³):</i>	<u>1.67</u>
<i>Unit Weight γ_w (kN/m³):</i>	<u>16.43</u>
<i>Dry Density ρ_d (g/cm³):</i>	<u>1.03</u>
<i>Void Ratio:</i>	<u>1.74</u>
<i>Porosity (%):</i>	<u>63.46</u>
<i>Back Pressure (kPa):</i>	<u>246.5</u>
<i>Saturation Coefficient (B value):</i>	<u>0.99</u>
<i>Φ':</i>	<u>16.0</u>
<i>C':</i>	<u>4.9</u>
<i>S_u/σ'_v</i>	<u>0.26</u>
<i>$S_u/\sigma'_{v(corr)}$:</i>	<u>0.21</u>
<i>A_f:</i>	<u>0.57</u>
<i>Initial Young's modulus E_i (kPa)</i>	<u>6157.0</u>
<i>Liquid Limit (%):</i>	63.45
<i>Plastic Limit (%):</i>	31.05
<i>Plasticity Index (%):</i>	32.40
<i>Liquidity Index:</i>	0.97
<i>Classification:</i>	CH
<i>Sand (%):</i>	0.00
<i>Silt(%):</i>	10.36
<i>Clay(%):</i>	89.64

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2010804 0056PC (409-421 cm).

<i>Consolidation Pressure</i> σ'_v (kPa)	<i>Deviator Stress</i> (kPa)	<i>Effective Average Mean Stress</i> s' (kPa)	<i>Maximum Shear Stress</i> t, t' (kPa)	A_f
26.23	23.23	24.65	11.62	0.57
99.23	54.70	83.15	27.35	0.82
199.25	97.98	160.78	48.99	0.90

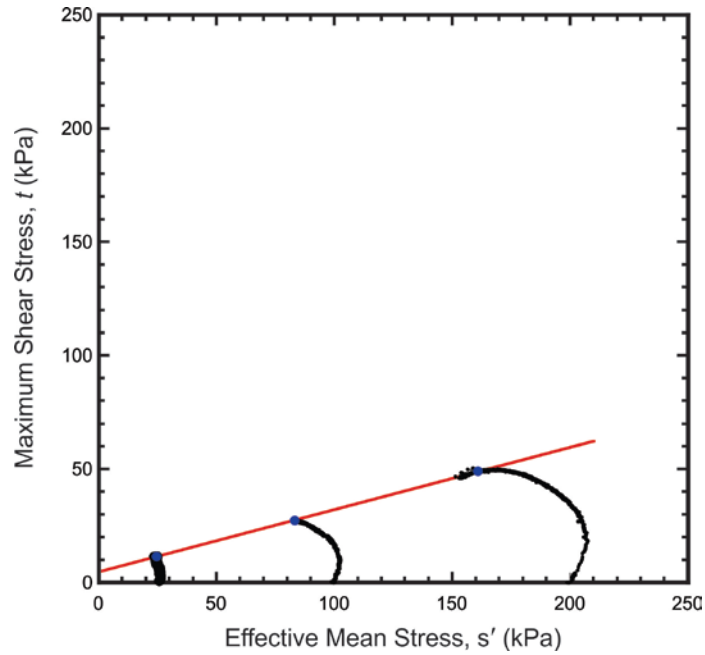


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2010804 0056PC (409-421 cm).

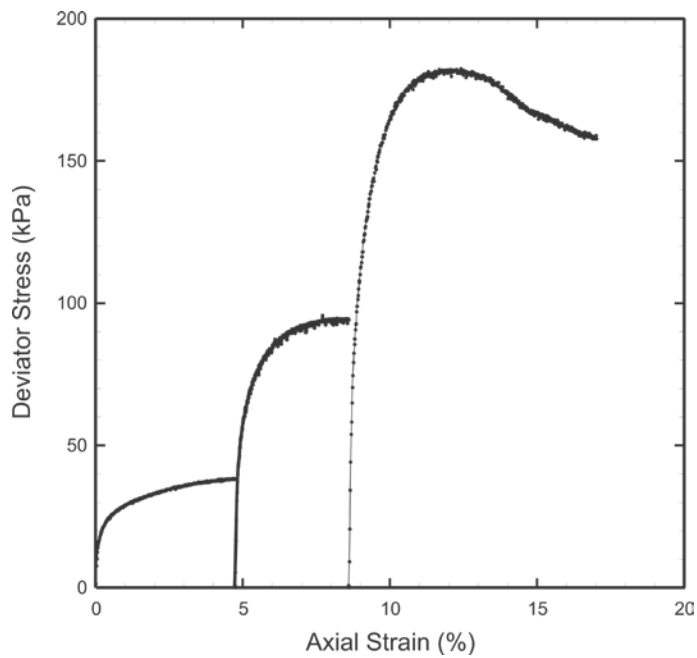


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2010804 0056PC (409-421 cm).

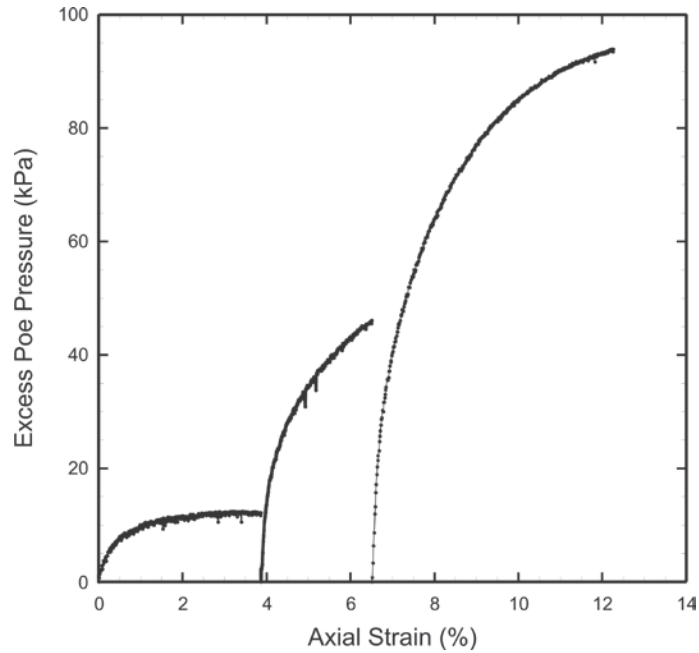


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2010804 0056PC (409-421 cm).

Table 3 Summary of bender element test results, Beaufort Sea sample 2010804 0056PC (409-421 cm).

<i>Consolidation Pressure</i> <i>kPa</i>	<i>Sample Height</i> <i>(mm)</i>	<i>Bulk Density</i> <i>(g/cm³)</i>	<i>Void Ratio</i>	<i>Shear Wave Velocity</i> <i>(m/s)</i>	<i>Max Shear Modulus</i> <i>(MPa)**</i>
2.0	120.14	1.67	1.74	25.2	1.07
26.23	116.23	1.75	1.47	27.5	1.32
99.23	105.51	1.84	1.18	45.9	3.89
199.25	97.42	1.92	0.98	60.4	10.25

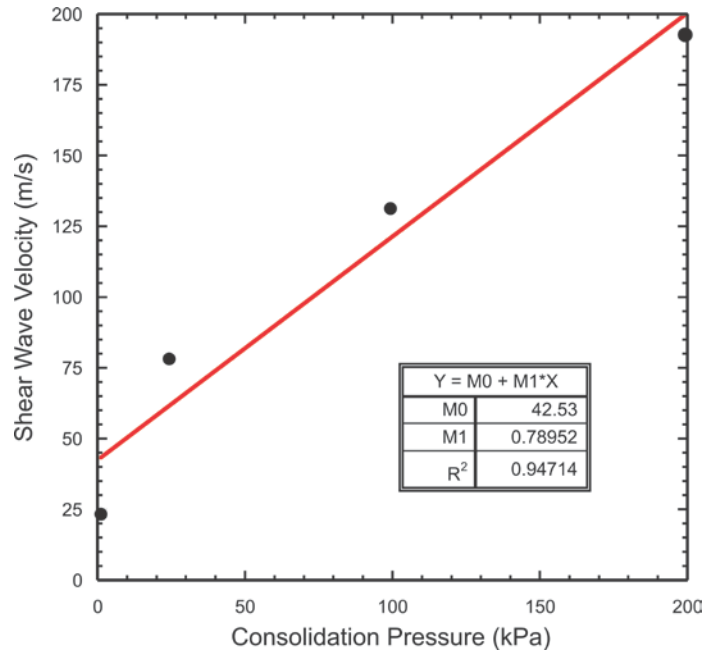


Figure 4 Shear wave velocities at various consolidation pressures, Beaufort Sea sample 2010804 0056PC (409-421 cm).

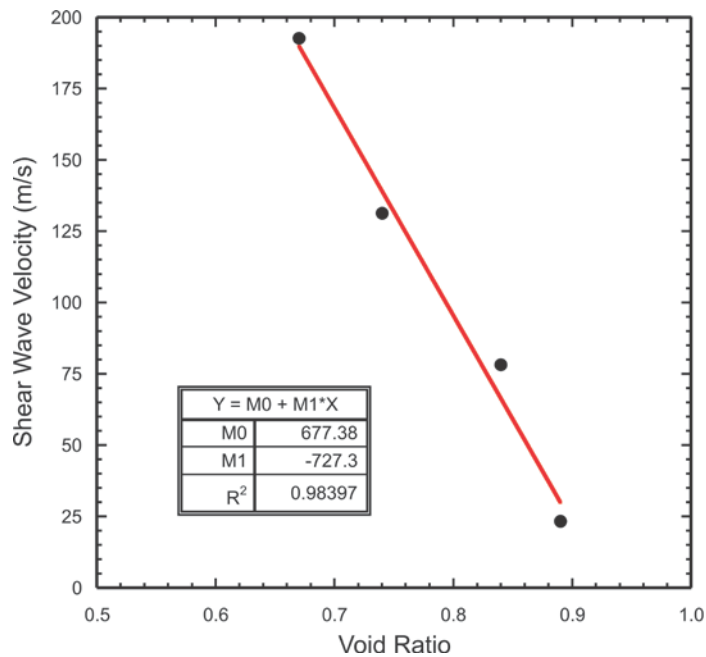


Figure 5 Shear wave velocities for various void ratios, Beaufort Sea sample 2010804 0056PC (409-421 cm).

TRIAXIAL TEST REPORT

BEAUFORT SEA SEDIMENTS

2010804 0069PC 392-400 cm

**GSC - Atlantic
MARINE GEOMECHANICS LABORATORY
May 2012**

INTRODUCTION

A Multi-stage isotropically consolidated undrained (CIU) triaxial test was conducted on a marine sediment sample collected in the Beaufort Sea. The sample station is 2010804 0069PC. The coordinates of the sample site are latitude 71.063718° and longitude -135.123834°. The water depth is 630.8 m.

TRIAXIAL TESTING SYSTEM

The triaxial system used is a GDS computer controlled hydraulic triaxial testing system consisting of a 38mm Bishop & Wesley triaxial cell, 3 2000kPa pressure/volume controllers, a 5 KN submersible load cell, a pore pressure transducer, linear displacement transducer, differential pressure transducer and GDS software. The GDS software can perform CU, UU, CC, K_0 and extension triaxial tests.

TEST PROCEDURE

Undisturbed Sample

A sample was taken at a core depth from 391 to 401 cm. A thin-walled sampling tube (10 cm, 3.8 cm ID) with a sharp cutting edge was pushed into the core and then extruded with the sediment from the core liner. The sample was trimmed with a wire saw to a height of 8.22 cm. Initial measurements of dimensions, weights and water contents were taken after the sample was trimmed. The sample was extruded from the sampling tube into a rubber membrane attached to a split membrane stretcher placed on the base pedestal. The sample was backpressured to 250 kPa to ensure 100% saturation. A B check was conducted to measure the degree of saturation. A B pore pressure parameter value of 1.0 was obtained after saturation indicating 100% saturation. The sample was isotropically consolidated to confining pressures of 19.2 kPa, 76.2 kPa and 147.8 kPa. The sample was sheared at a rate of 0.03 mm/min after each consolidation stage. The axial loading stages were stopped when the stress-strain curve began to level off. The final axial strain was 22.73%

METHODOLOGY

The pressure/volume controllers and various transducers are used to measure and control cell, back and pore pressure, back volume, axial displacement, axial load and effective stress. Continuously measured and derived values included: effective average mean stress (s'), maximum shear stress (t') and Skempton's A_f value. Young's Modulus (E) was determined from the slope of the initial linear portion of the stress-strain curve. The Shear Modulus and Bulk Modulus were then calculated using E and an assumed Poisson's ratio (ν) of 0.5. Stress path plots for each loading stage were combined and used to define the sediment's failure envelope.

RESULTS

The sample is silty dark olive grey fat (CH) clay with 0.82% sand, 41.84% silt and 57.43% clay. The sample had an initial void ratio of 1.6, an initial water content of 59.7 % and an initial unit weight of 16.77 kN/m³. The sample reached a maximum deviator stress of 112.22 kPa after shearing to 22.73 % axial strain in three stages. The measured friction angle (ϕ') was 28.4° and the cohesive intercept (c') was 0.0 kPa. All reported data are at the laboratory temperature of 22°C± 1°C. The results are summarized in tables 1 and 2 and figures 1, 2 and 3.

Table 1 Summary of multi-stage CIU test results, Beaufort Sea sample 2010804 0069PC (392-400 cm).

Cruise ID:	<u>2010804</u>
Borehole/Core:	<u>0069pc</u>
Test No:	<u>1</u>
Depth (cm):	<u>392-400</u>
Description of Sample:	<u>Silty olive gray clay</u>
Condition of Sample:	<u>Very Good</u>
Test Type:	<u>CIU multistage test</u>
Date:	<u>22-May-12</u>
Water Content Salt corr W_c (%):	<u>59.72</u>
Diameter of Sample (cm):	<u>3.84</u>
Bulk Density ρ_w (g/cm ³):	<u>1.71</u>
Unit Weight γ_w (kN/m ³):	<u>16.77</u>
Dry Density ρ_d (g/cm ³):	<u>1.07</u>
Void Ratio:	<u>1.59</u>
Porosity (%):	<u>61.43</u>
Back Pressure (kPa):	<u>245.0</u>
Saturation Coefficient (B value):	<u>0.99</u>
Φ' :	<u>28.4</u>
C' :	<u>0.0</u>
S_u/σ'_v	<u>0.37</u>
$S_u/\sigma'_{v(corr)}$:	<u>0.30</u>
A_f :	<u>0.69</u>
Initial Young's modulus E_i (kPa)	<u>3614.5</u>
Liquid Limit (%):	<u>51.88</u>
Plastic Limit (%):	<u>26.44</u>
Plasticity Index (%):	<u>25.45</u>
Liquidity Index:	<u>1.31</u>
Classification:	<u>CH</u>
Sand (%):	<u>0.82</u>
Silt (%):	<u>41.84</u>
Clay (%):	<u>57.34</u>

Table 2 Summary of failure data for each consolidation pressure, Beaufort Sea sample 2010804 0069PC (392-400 cm).

<i>Consolidation Pressure</i> σ'_v (kPa)	<i>Deviator Stress</i> (kPa)	<i>Effective Average Mean Stress</i> s' (kPa)	<i>Maximum Shear Stress</i> t, t' (kPa)	A_f
19.21	13.81	17.82	6.90	0.69
76.20	54.90	59.12	27.45	0.77
147.74	112.22	116.45	56.11	0.79

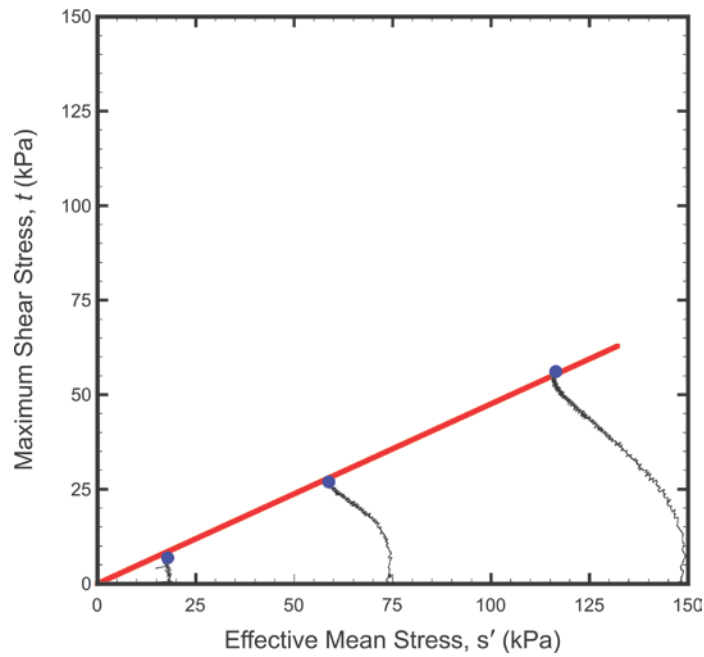


Figure 1 Effective stress paths from multi-stage CIU test, Beaufort Sea sample 2010804 0069PC (392-400 cm).

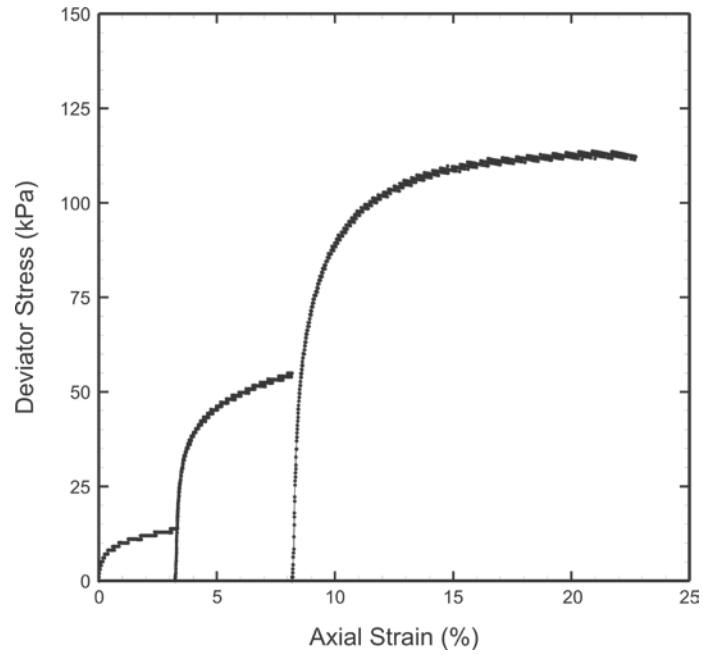


Figure 2 Stress-strain curves from multi-stage CIU test, Beaufort Sea sample 2010804 0069PC (392-400 cm).

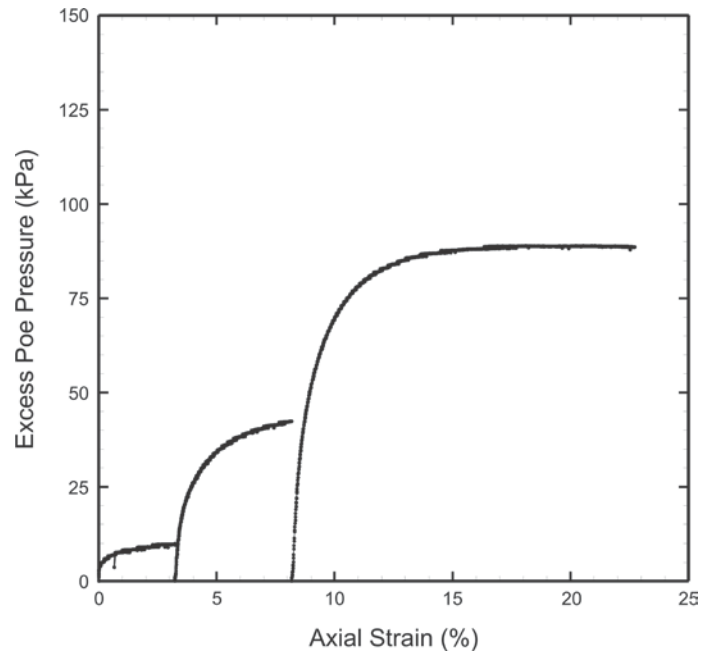
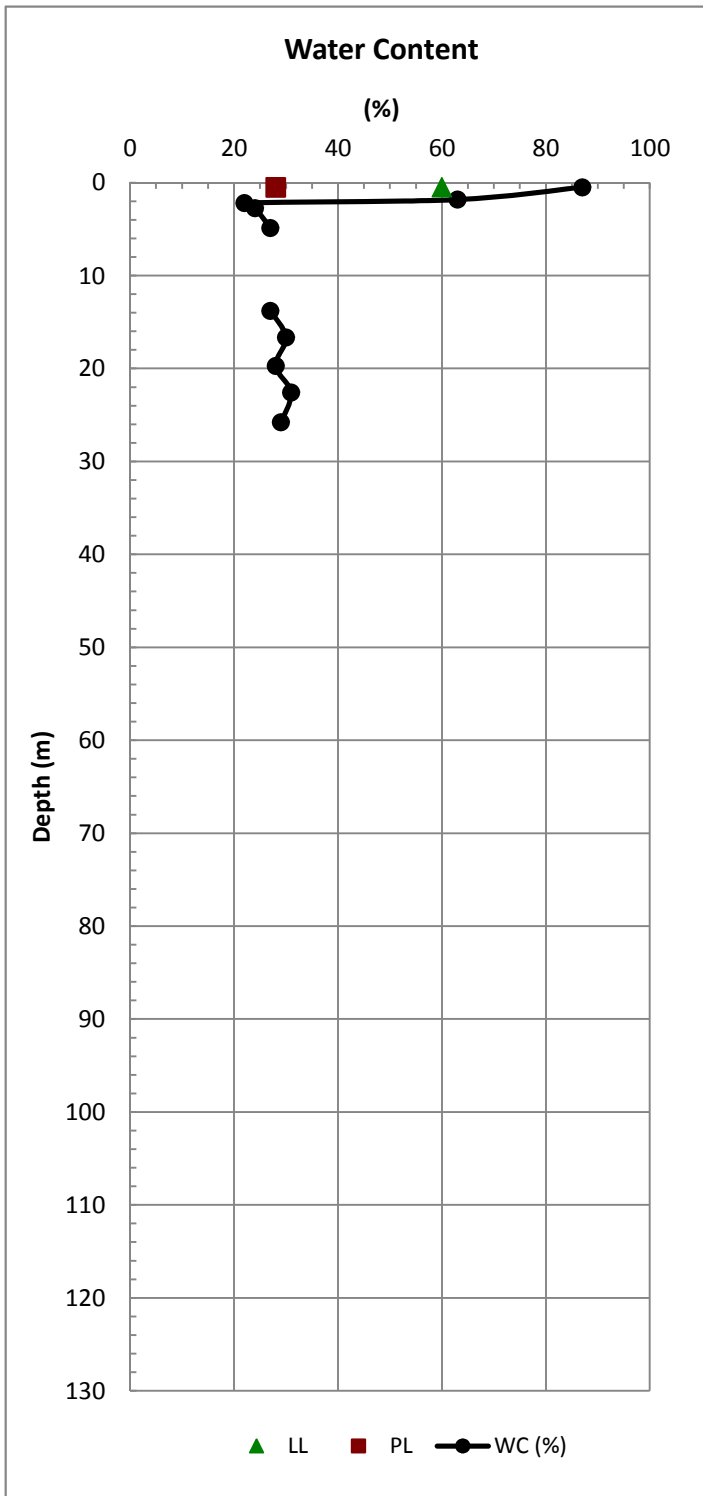
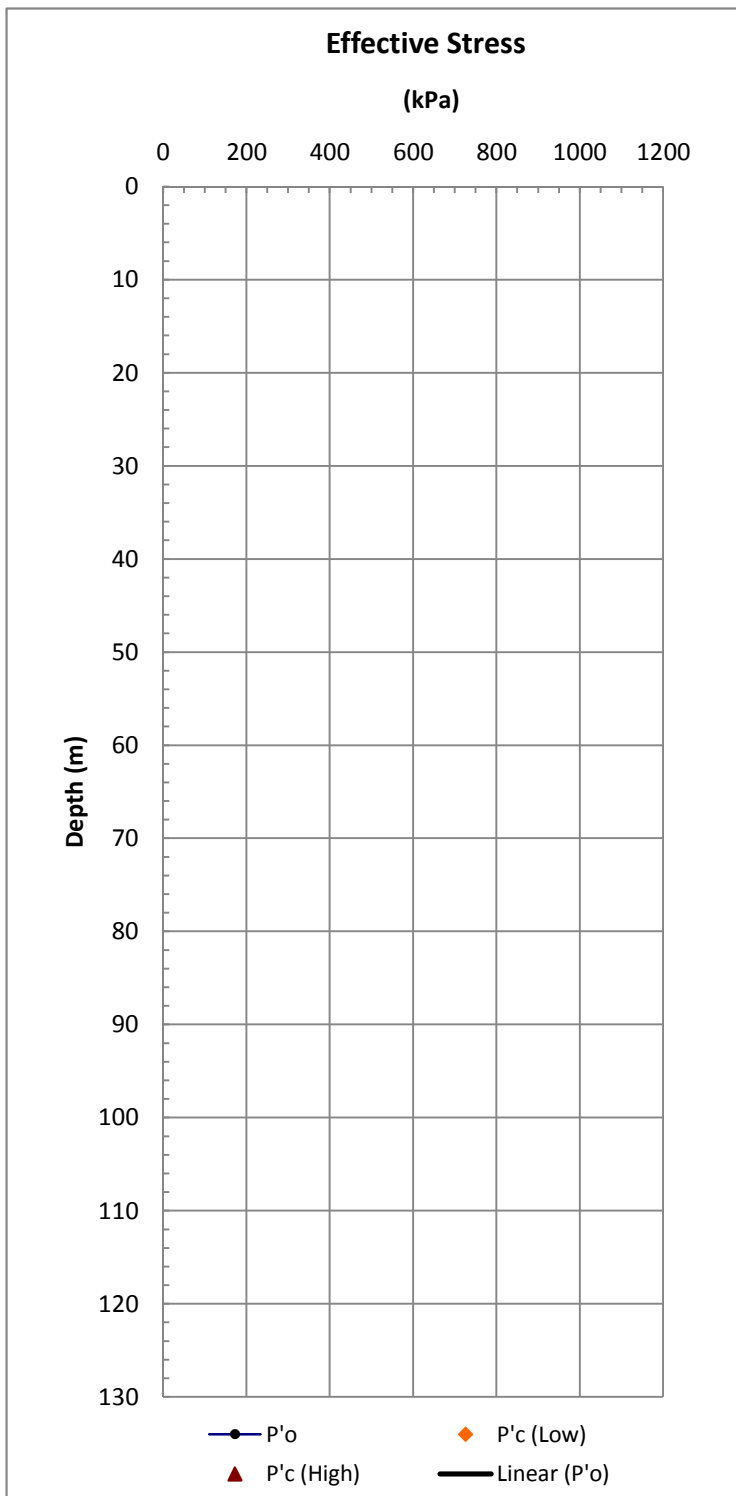
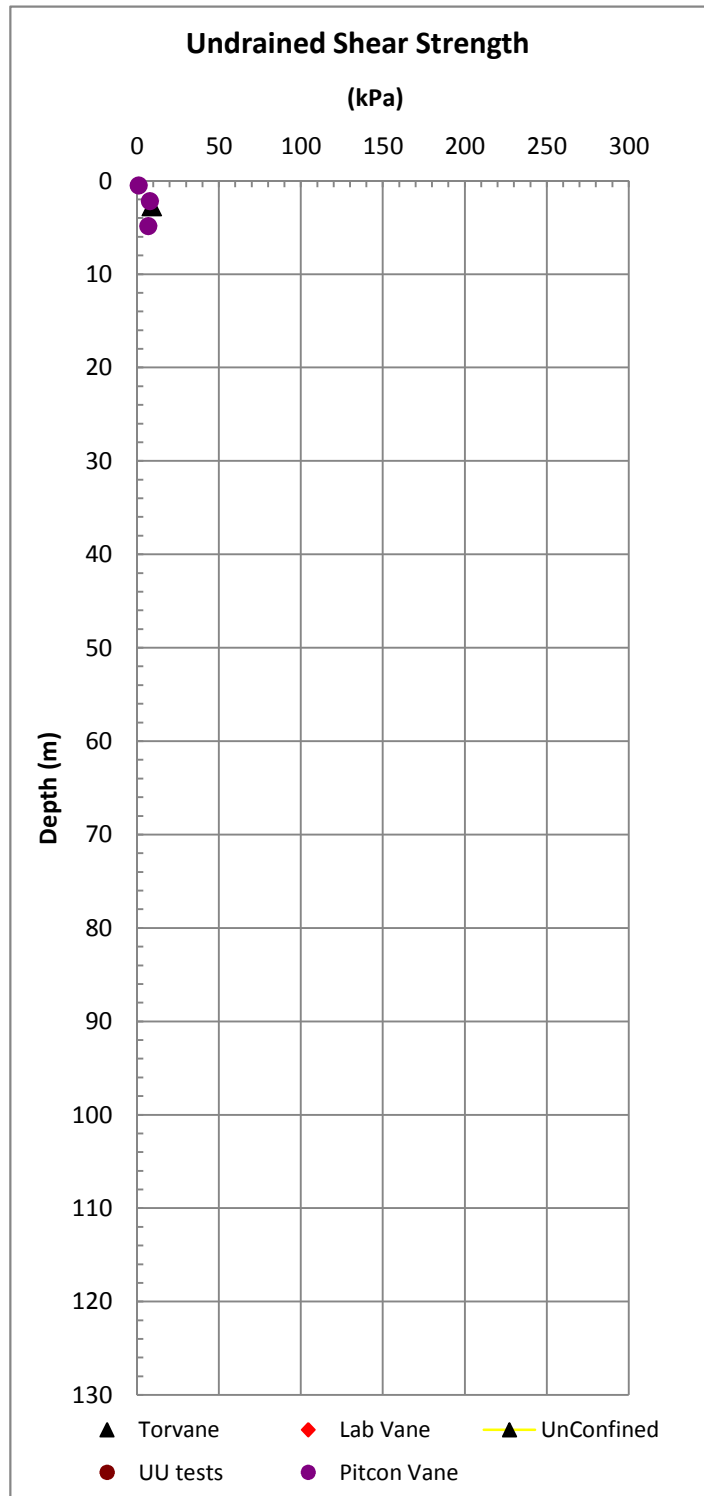
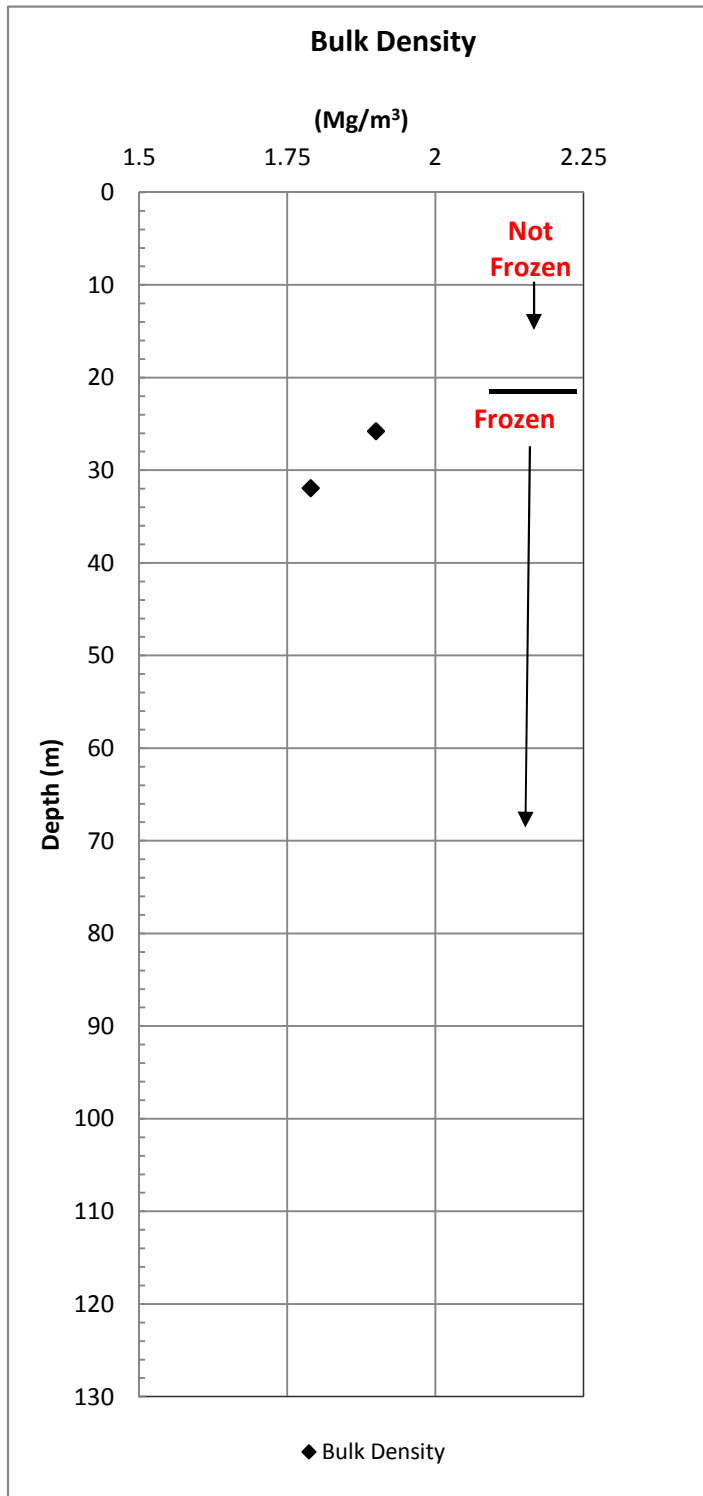


Figure 3 Excess pore pressure curves from multi-stage CIU test, Beaufort Sea sample 2010804 0069PC (392-400 cm).

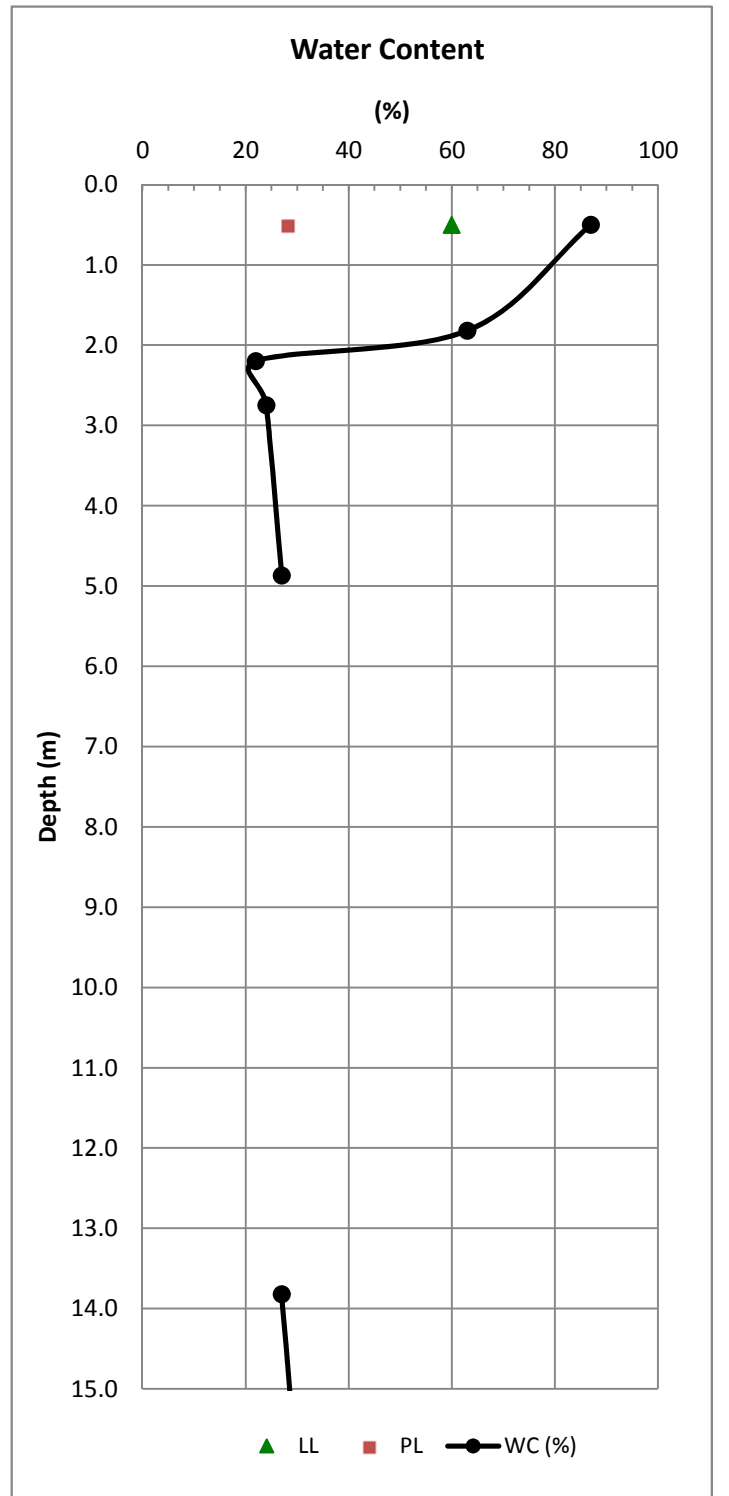
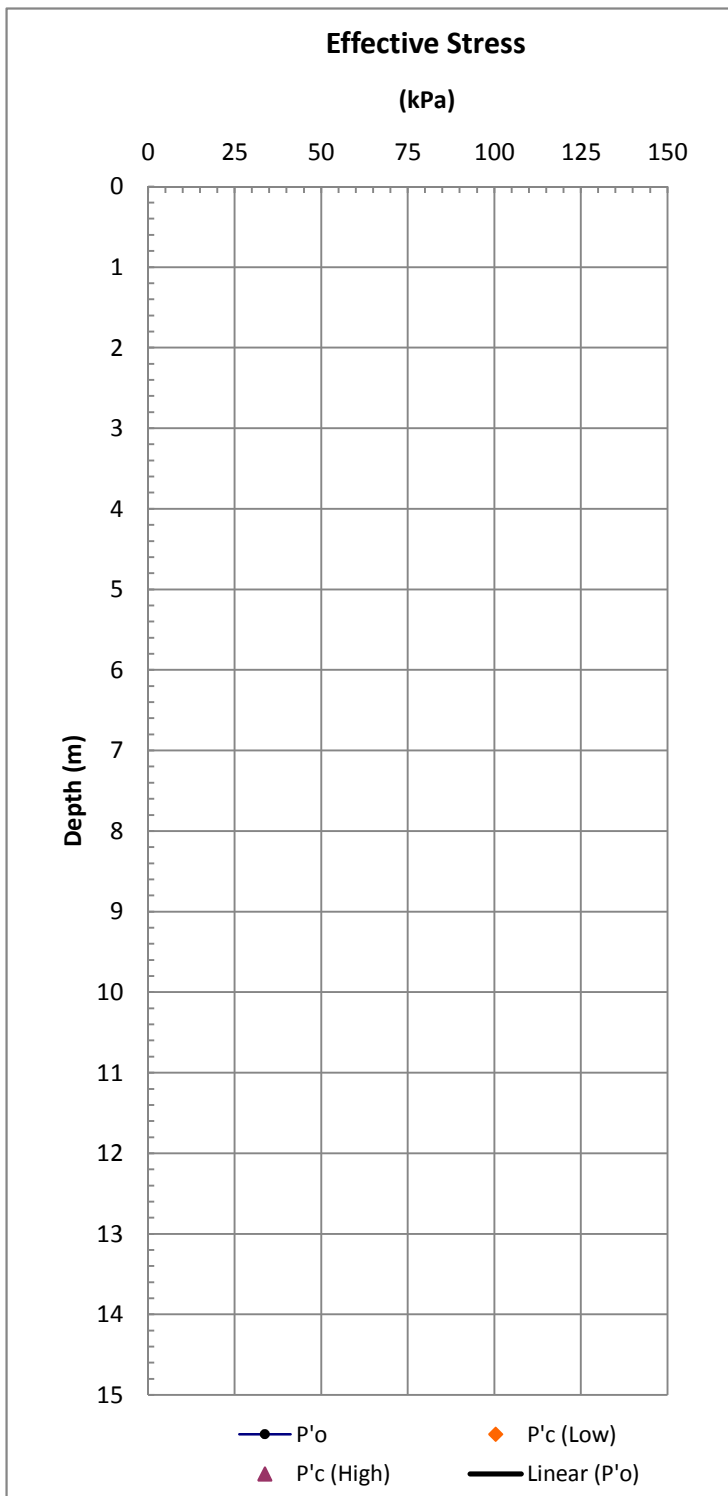
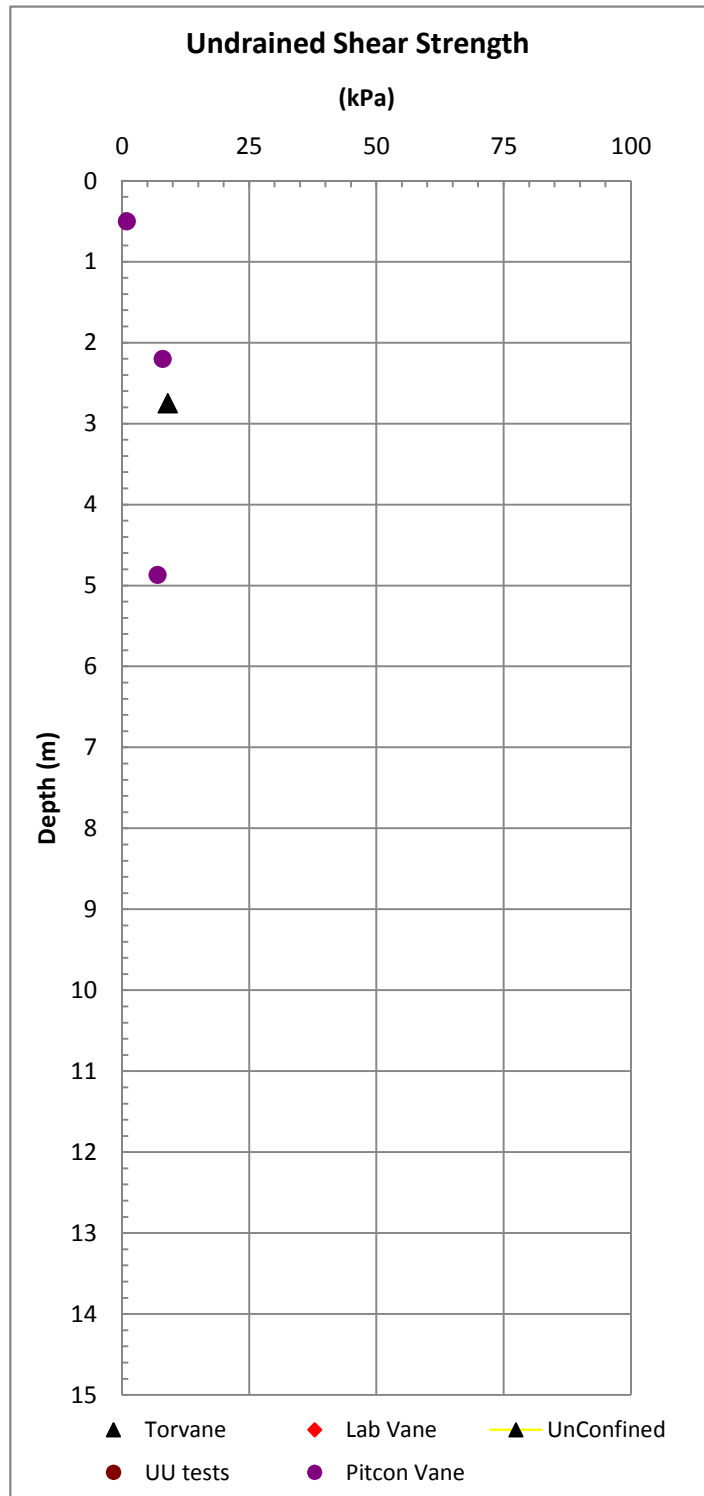
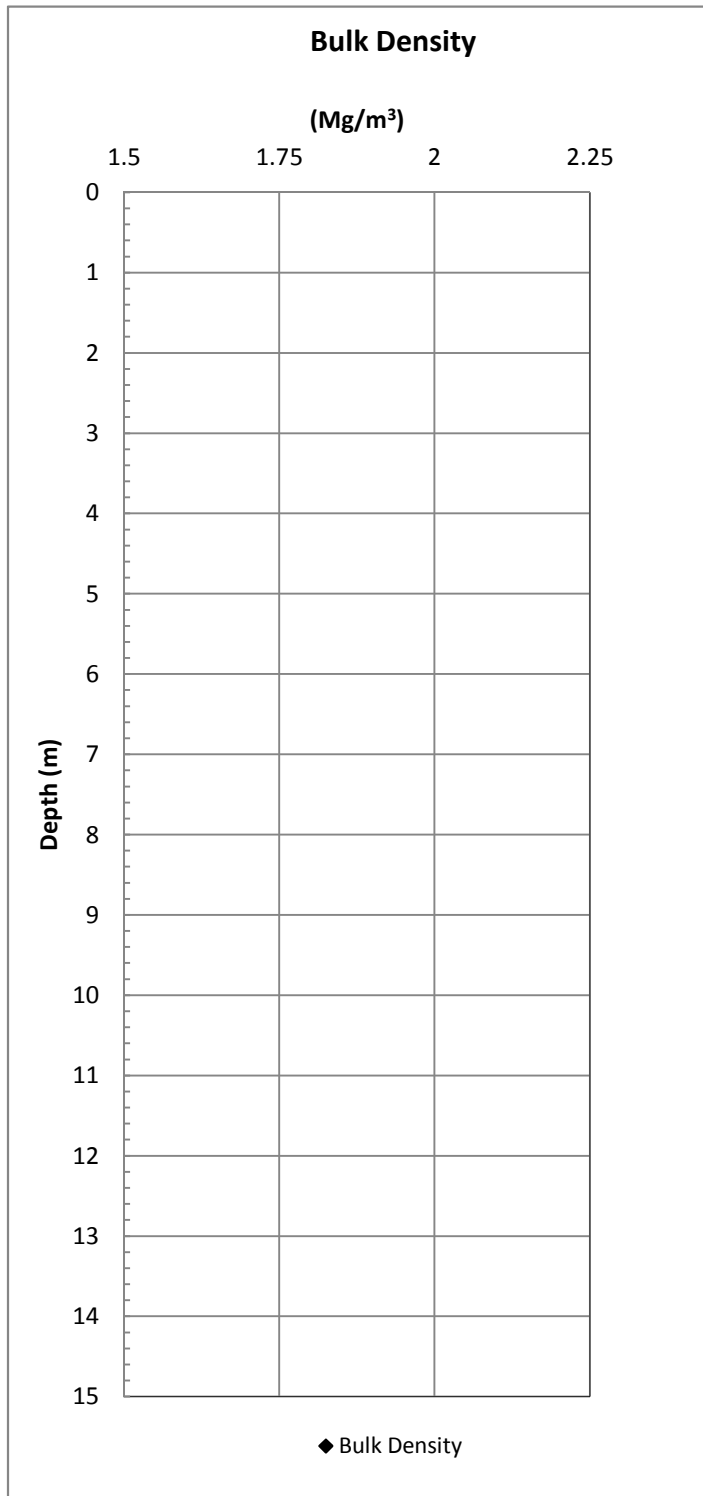


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Figure C.3

10033 Beaufort Data

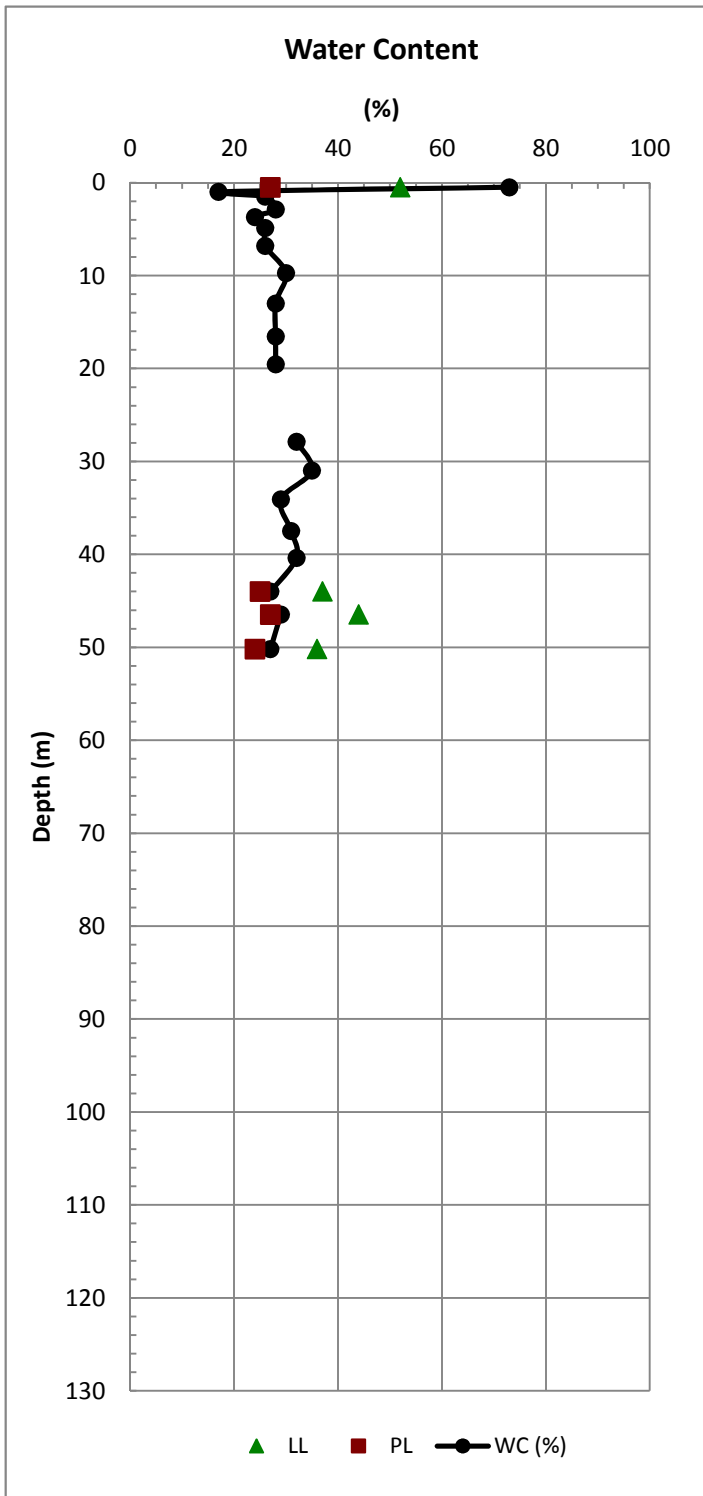
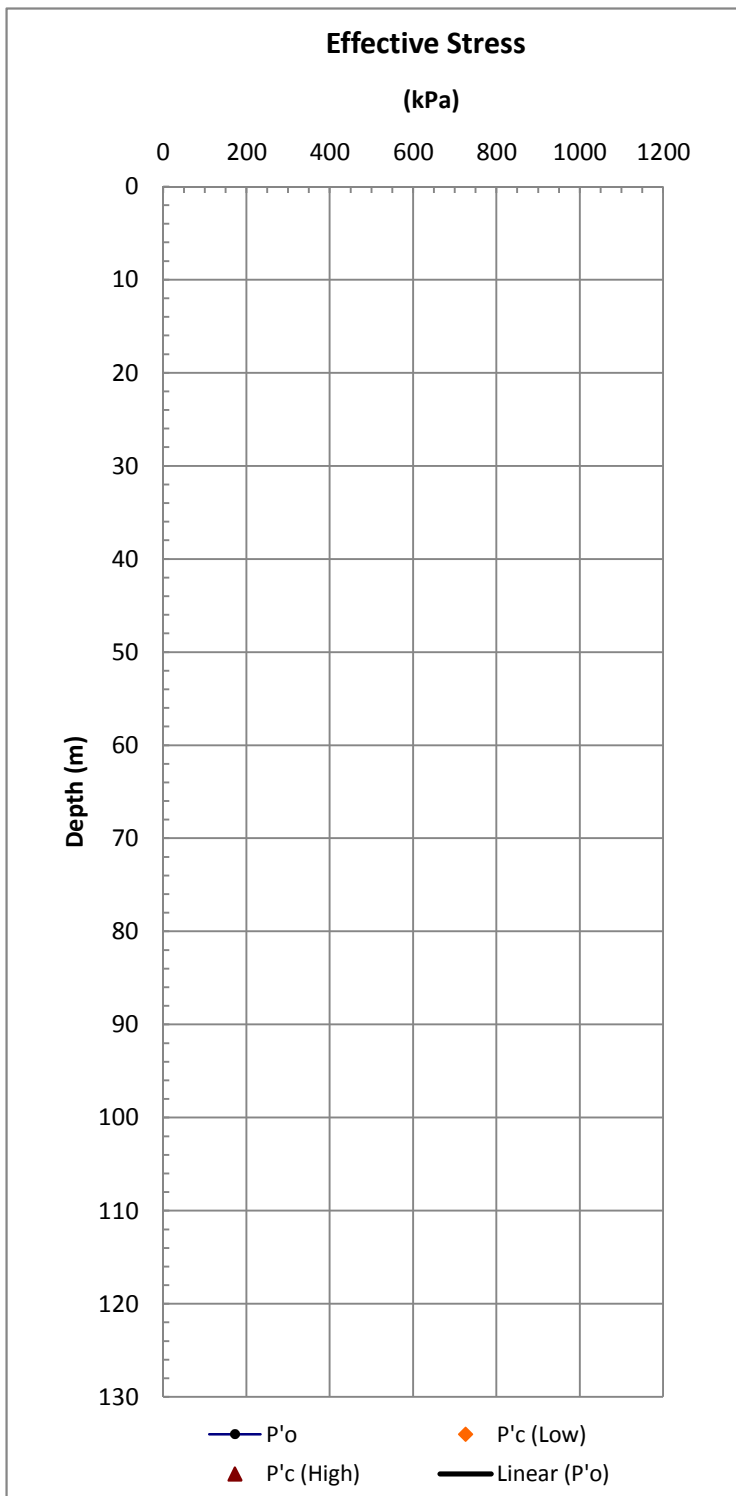
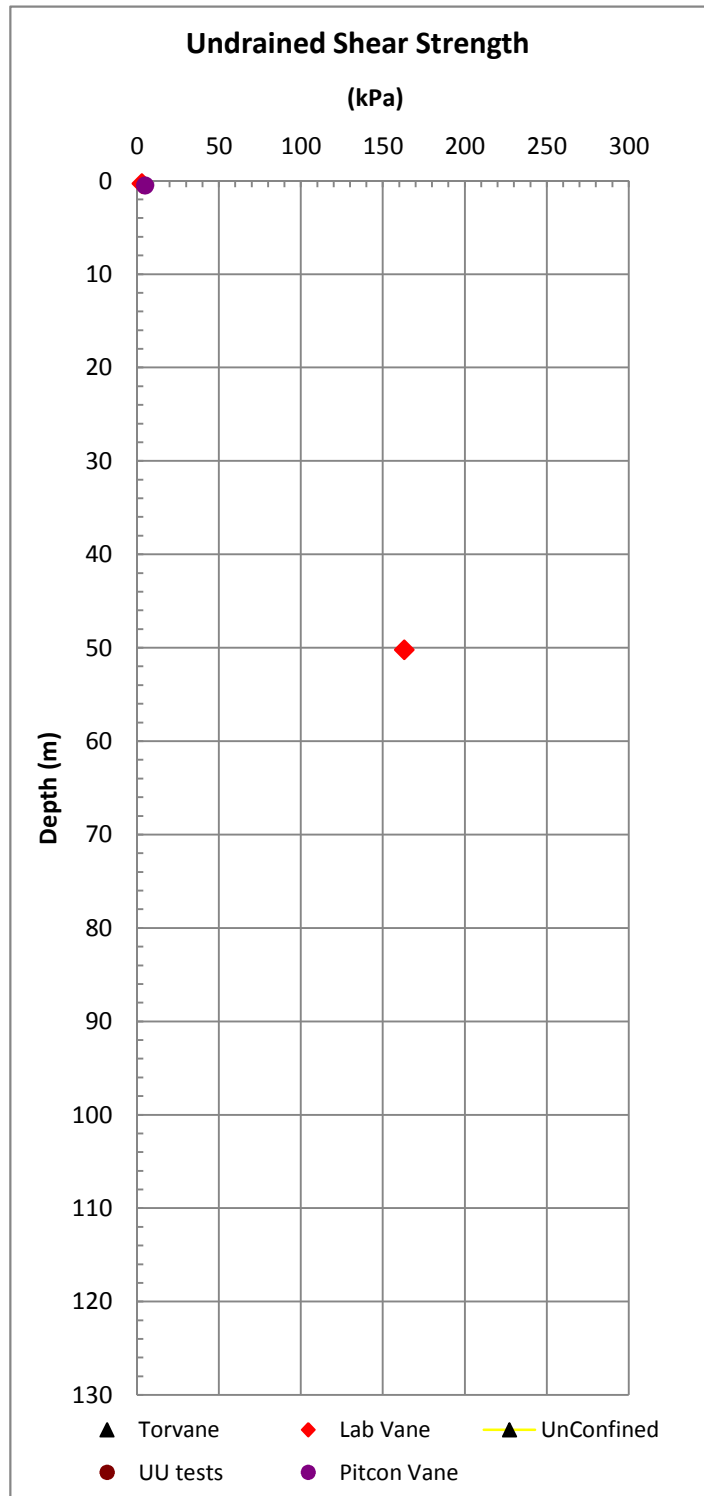
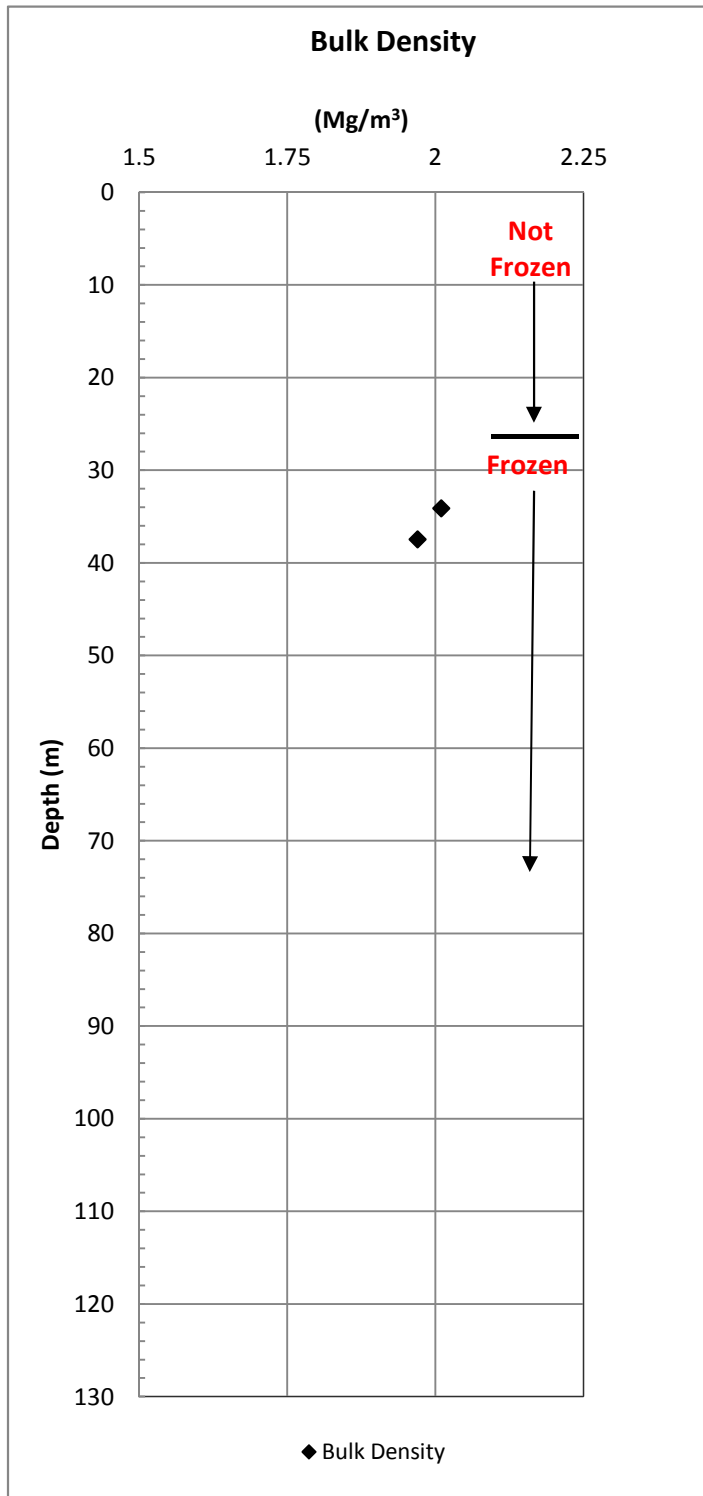


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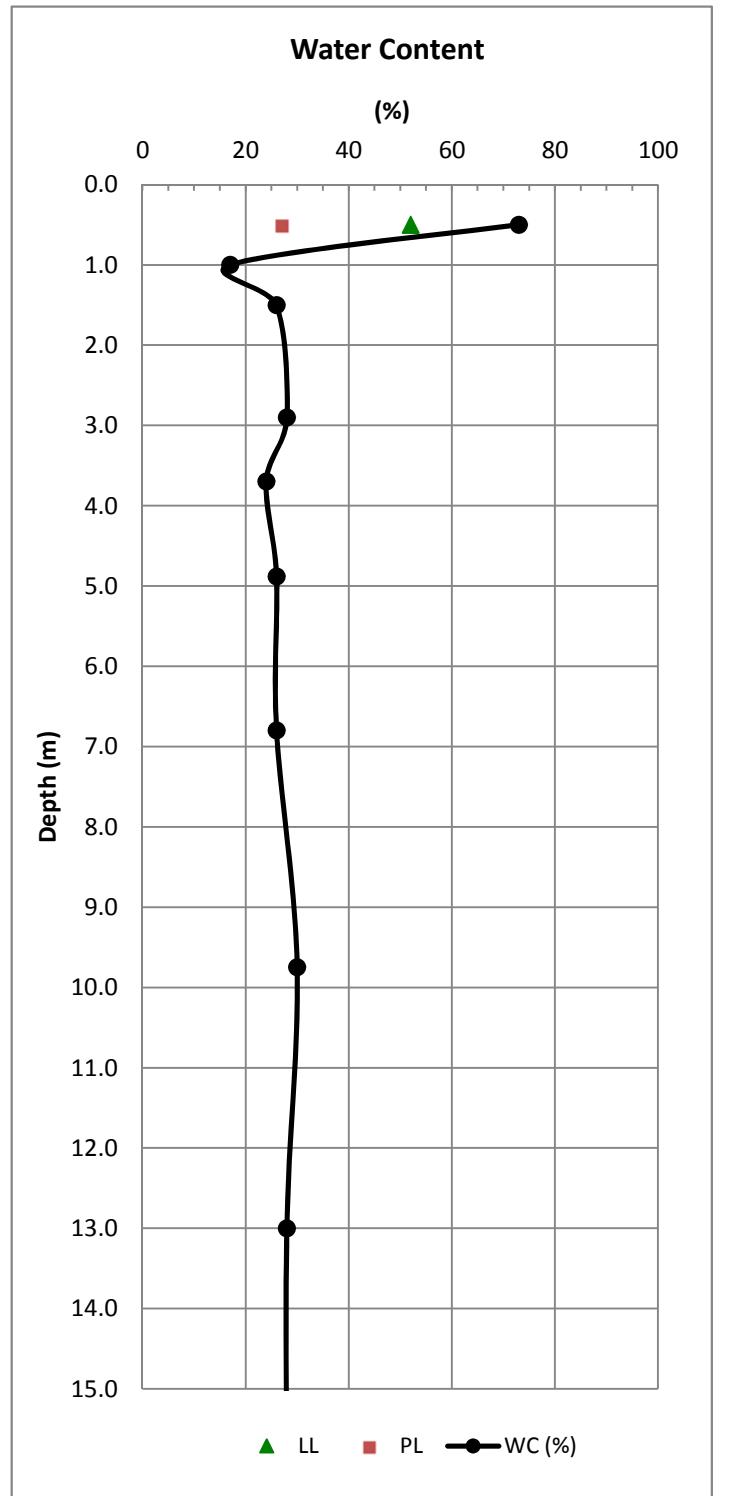
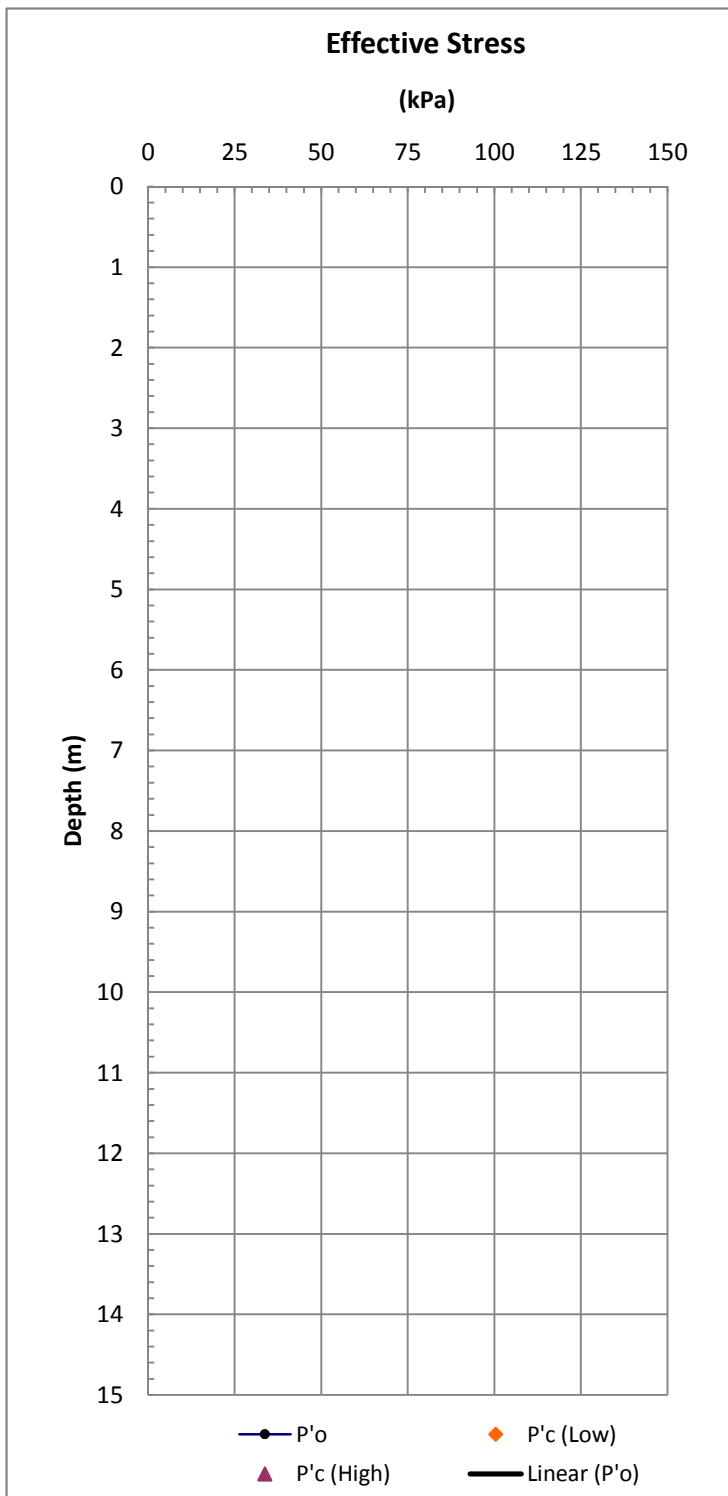
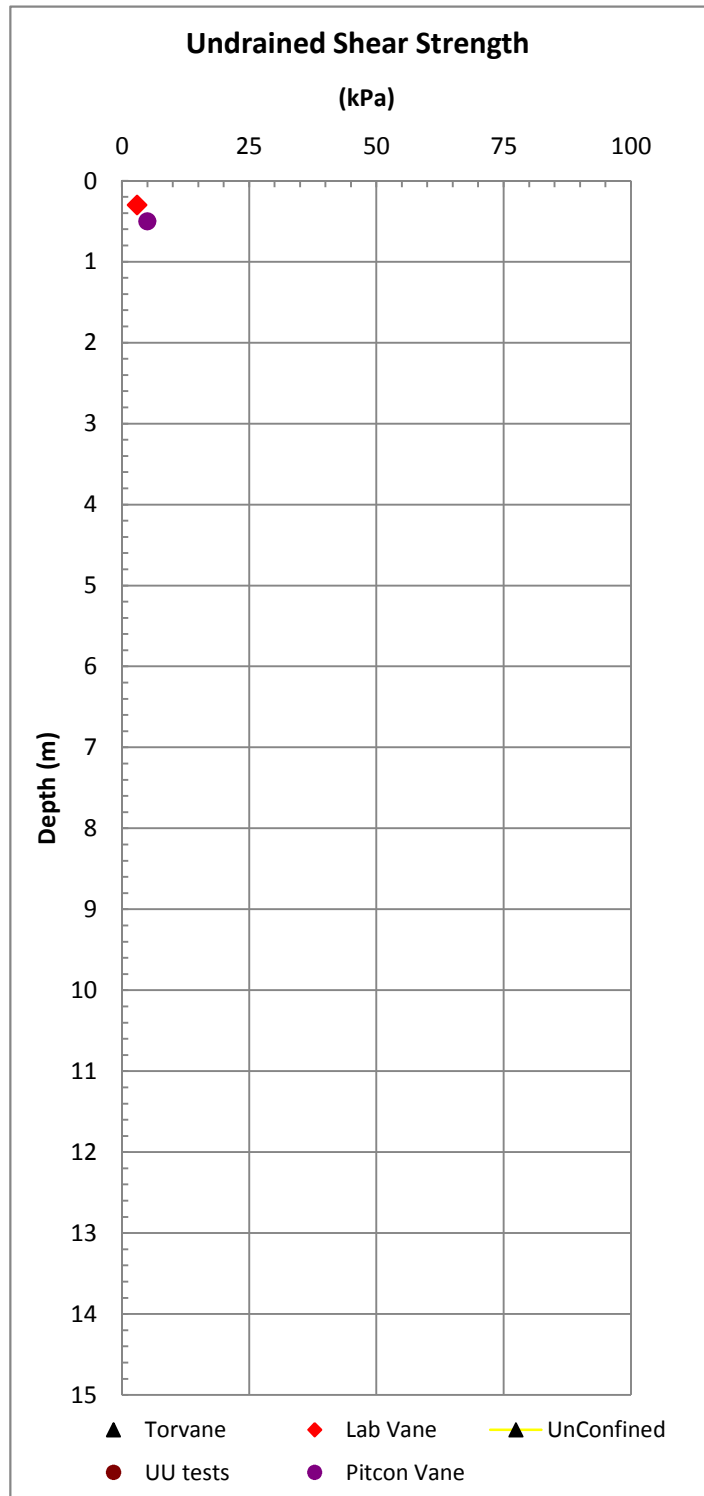
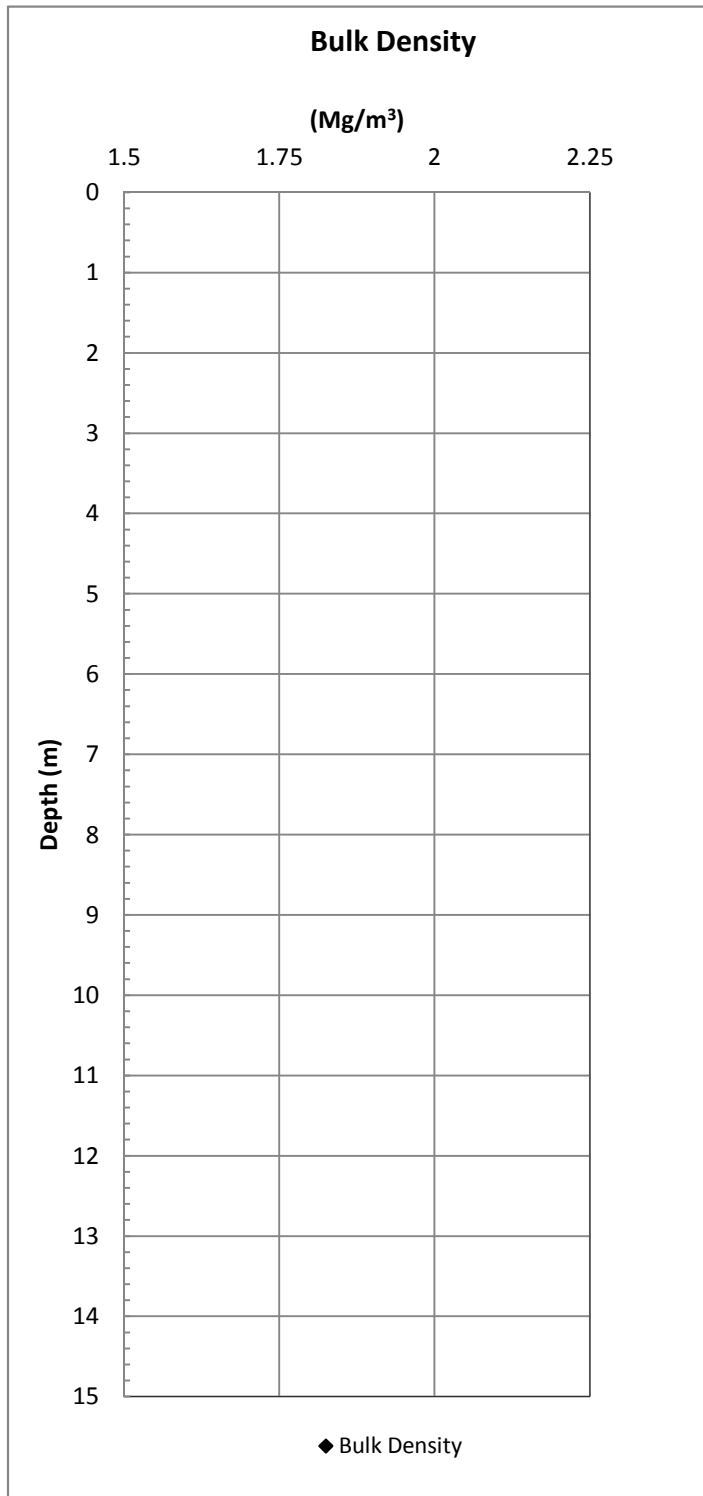
Figure C.3

10033 Beaufort Data



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 Figure C.3
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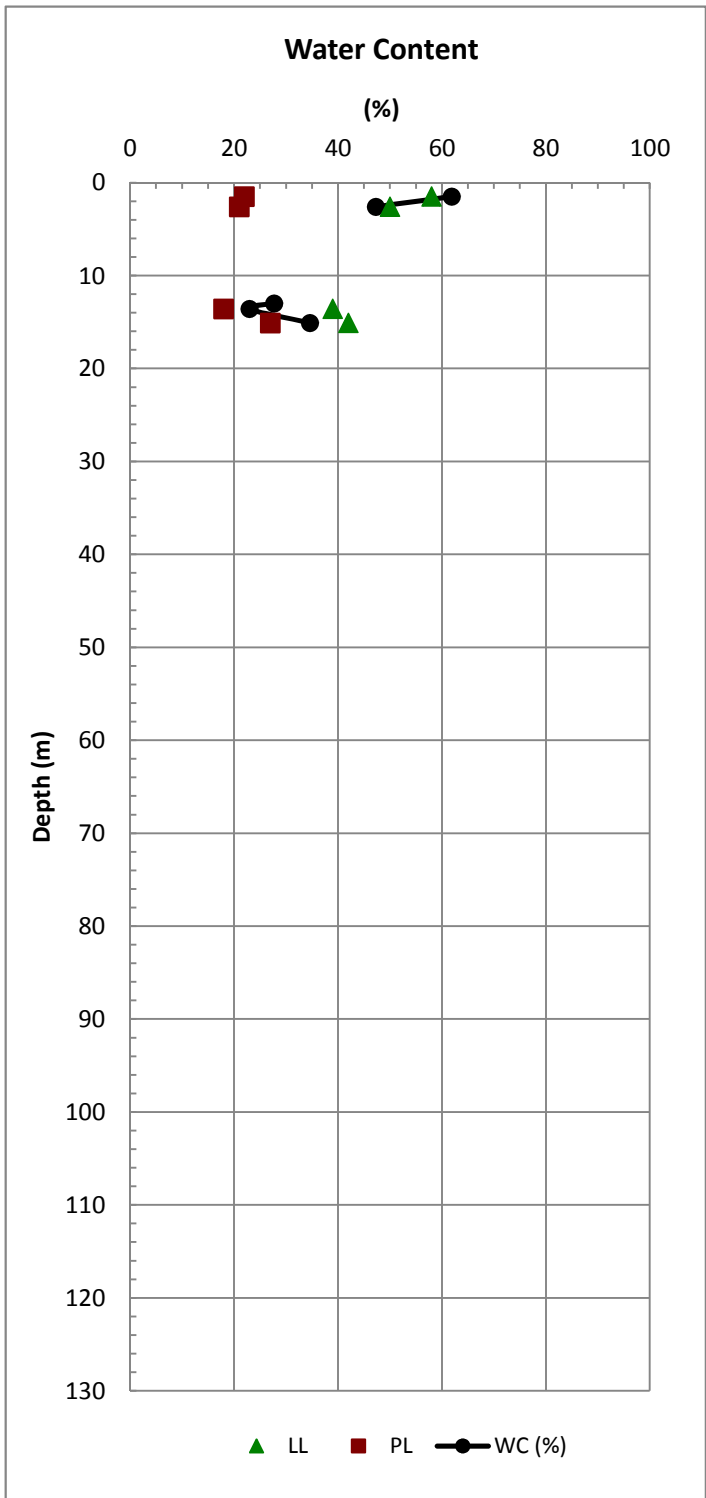
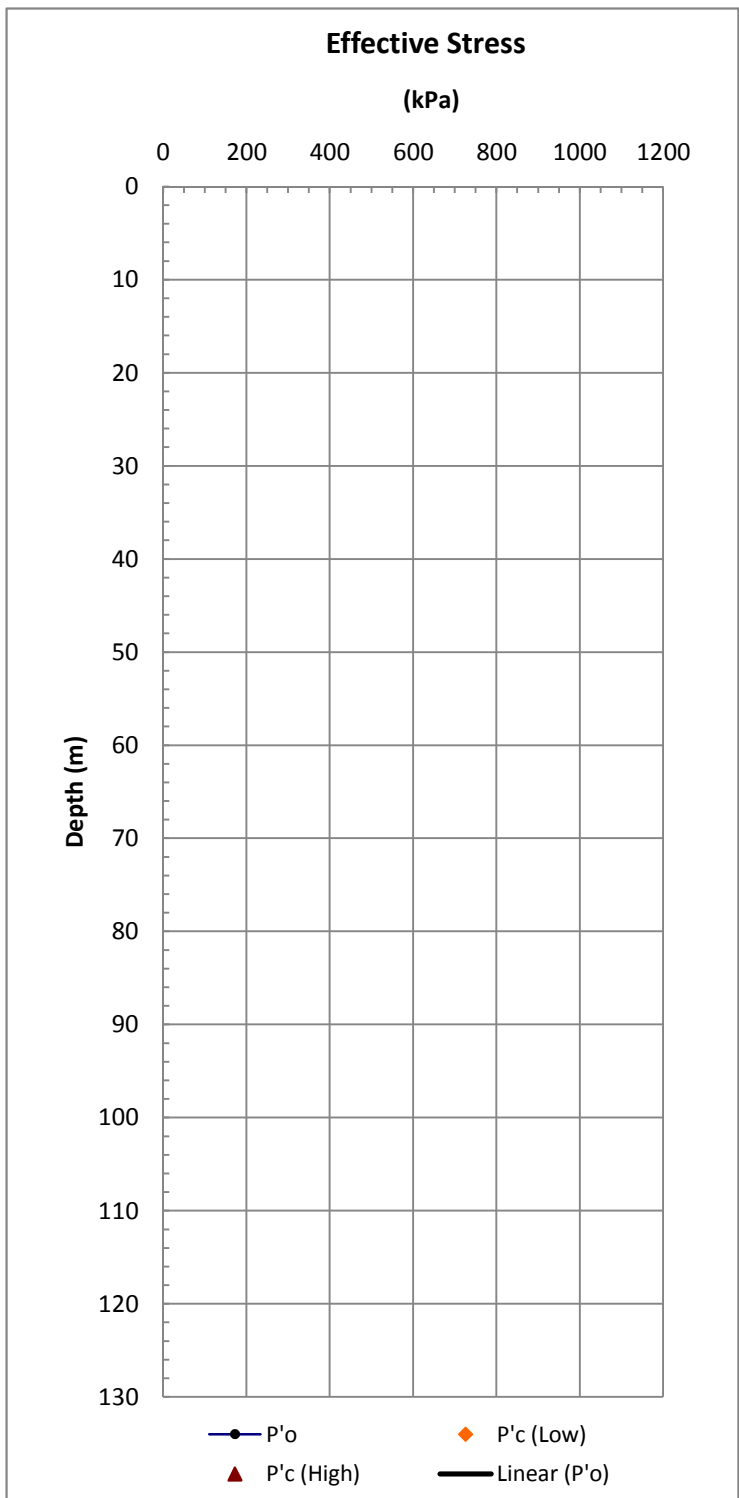
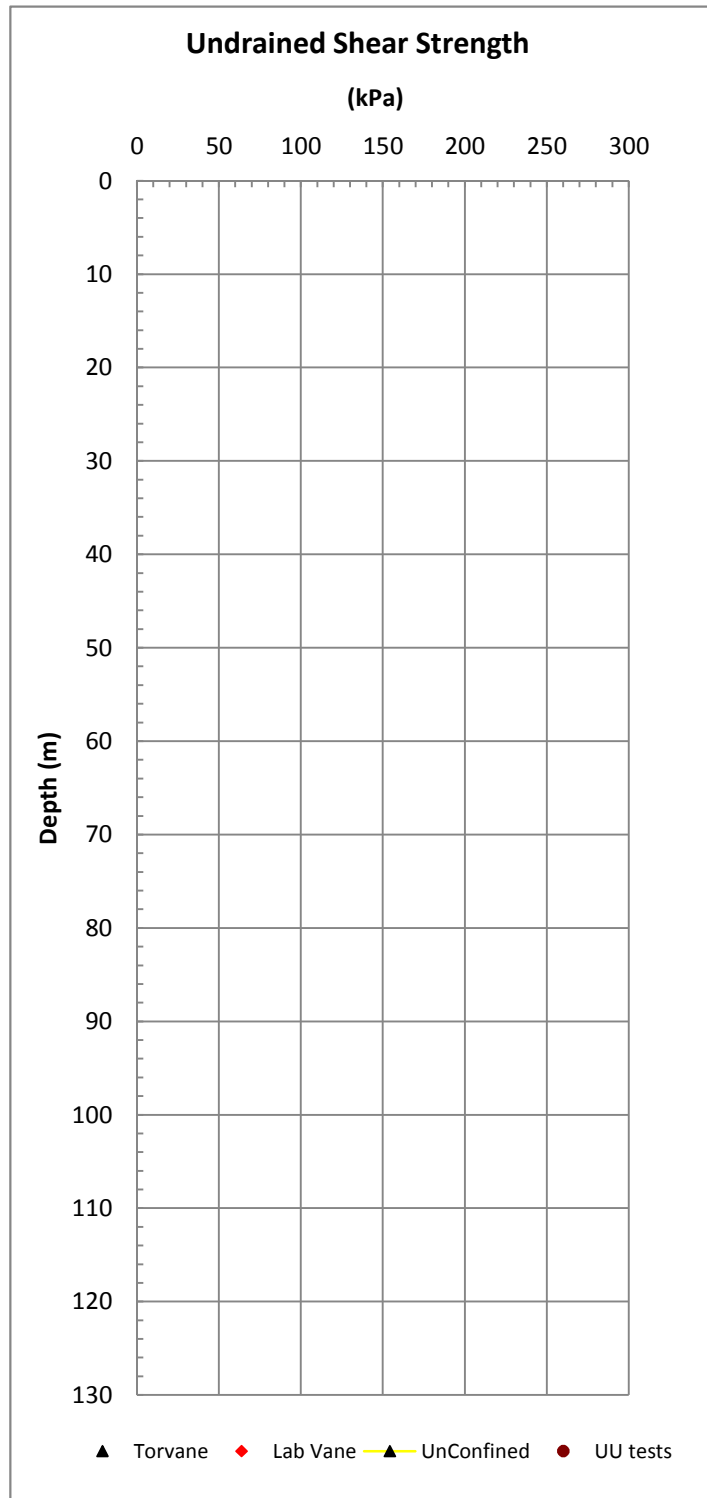
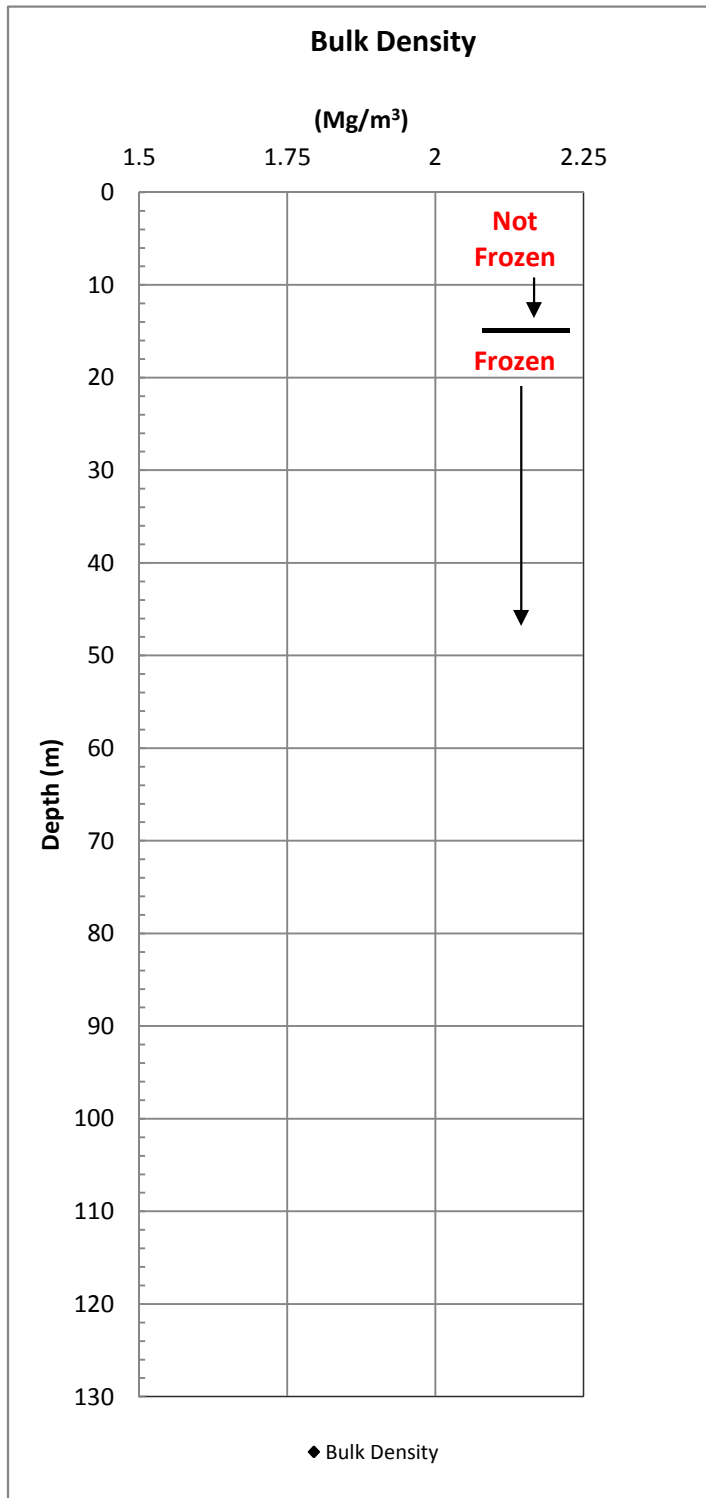


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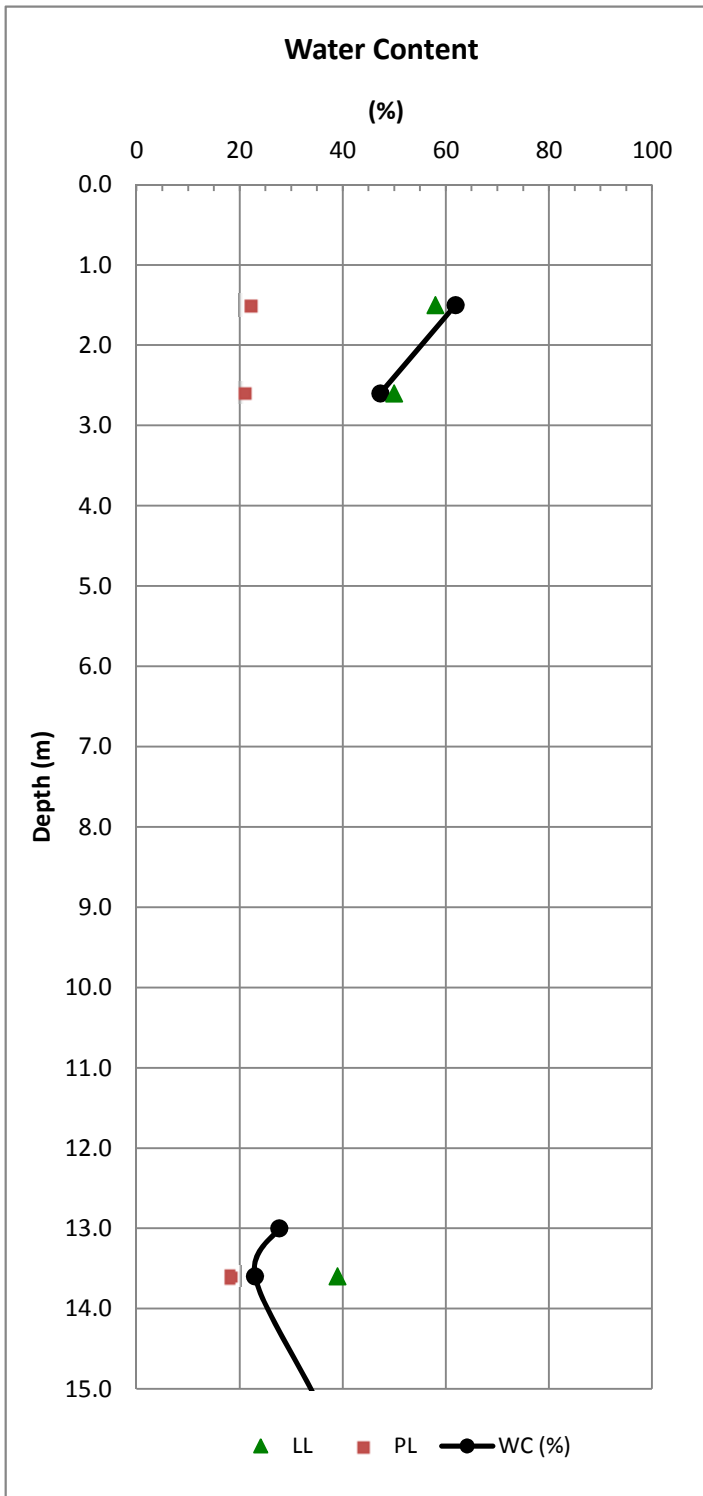
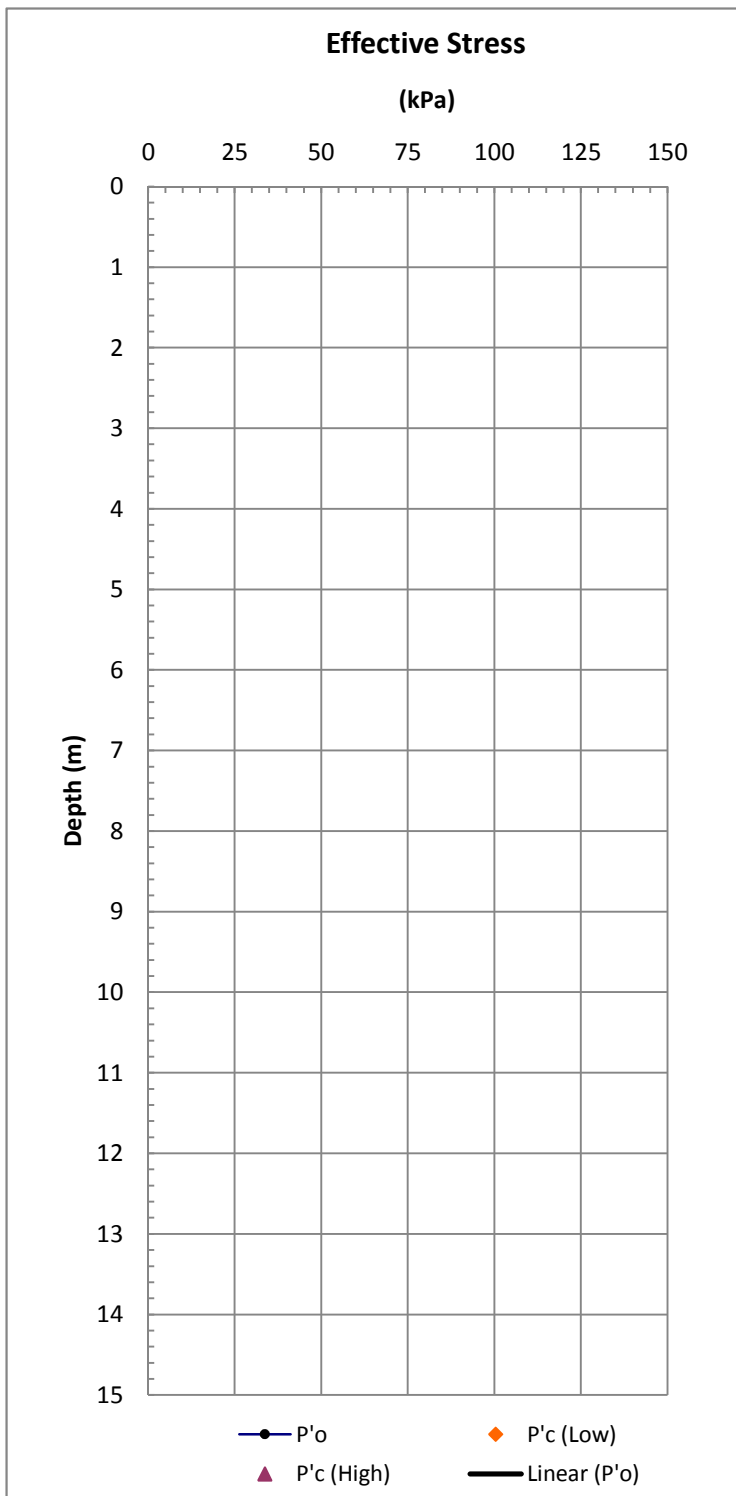
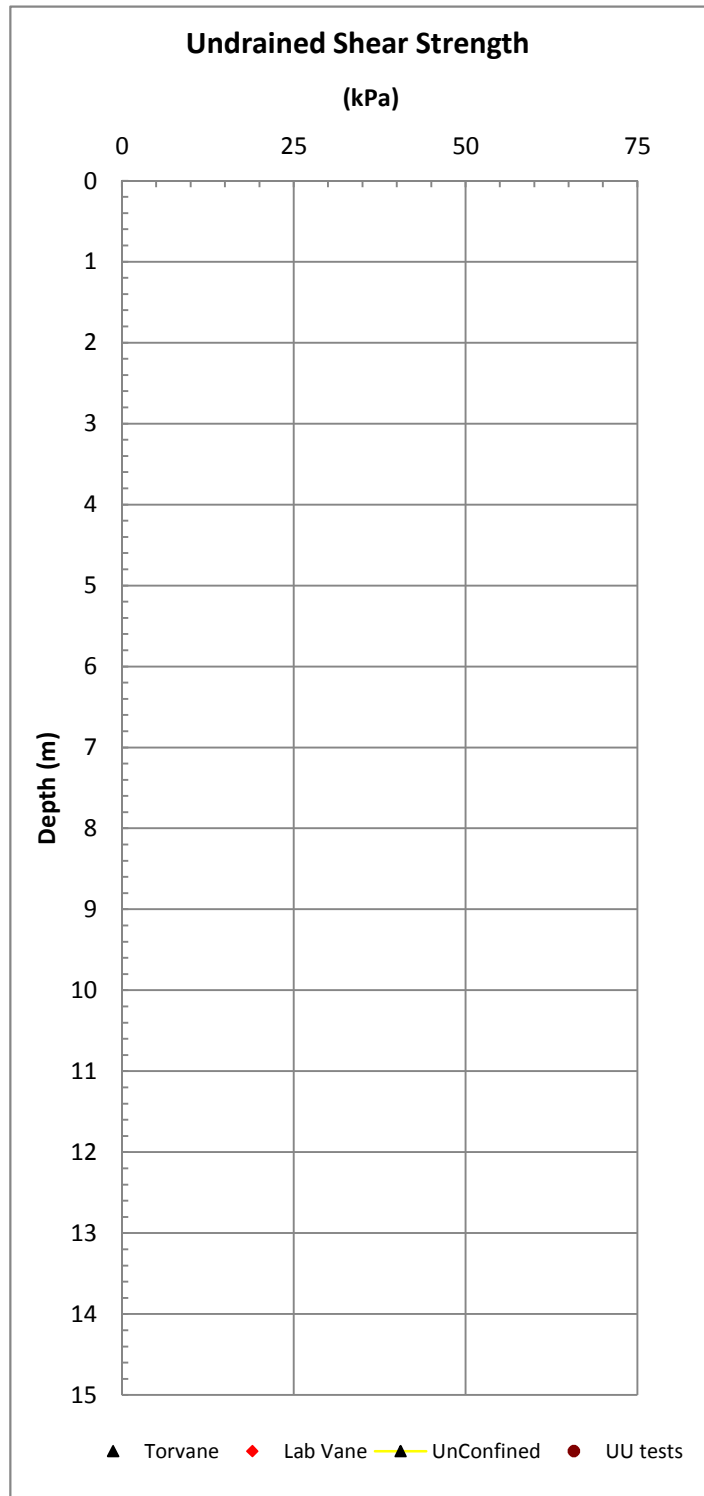
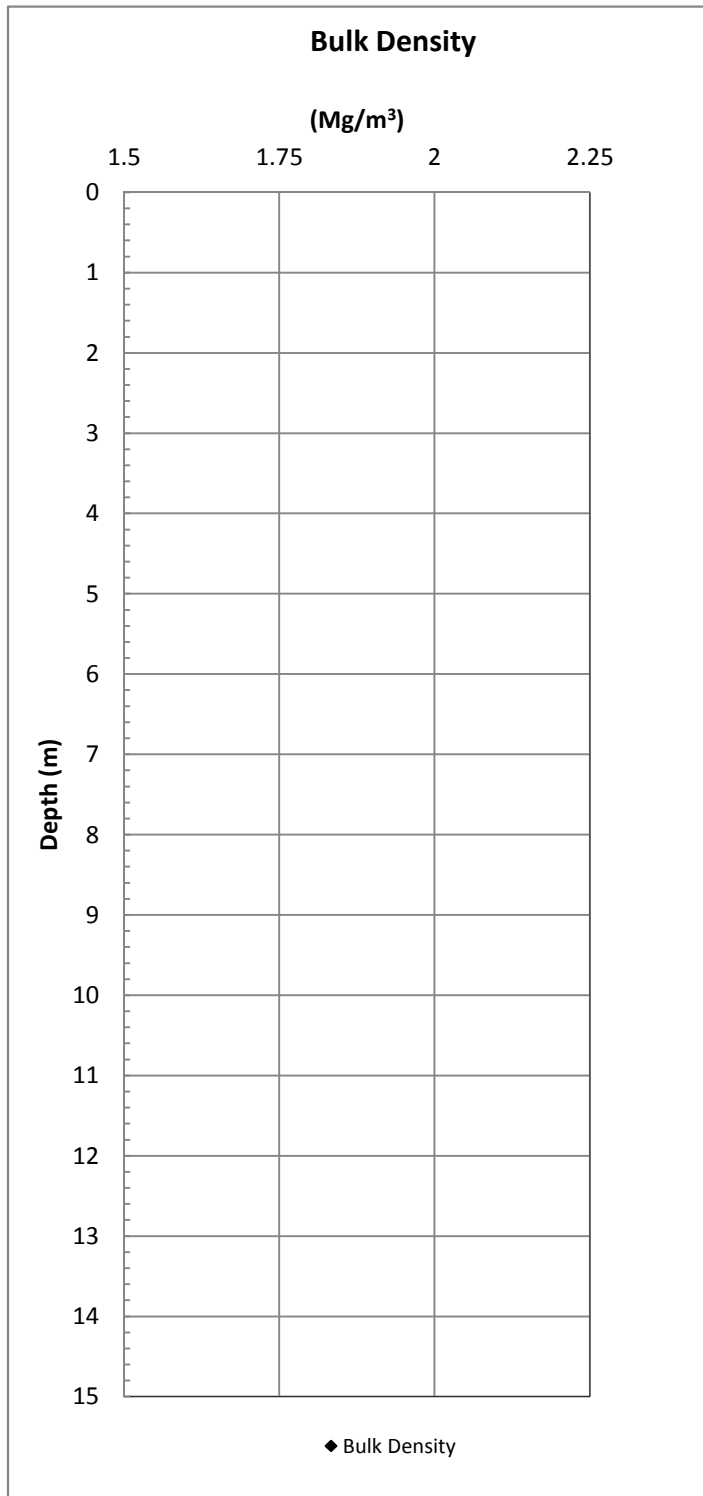


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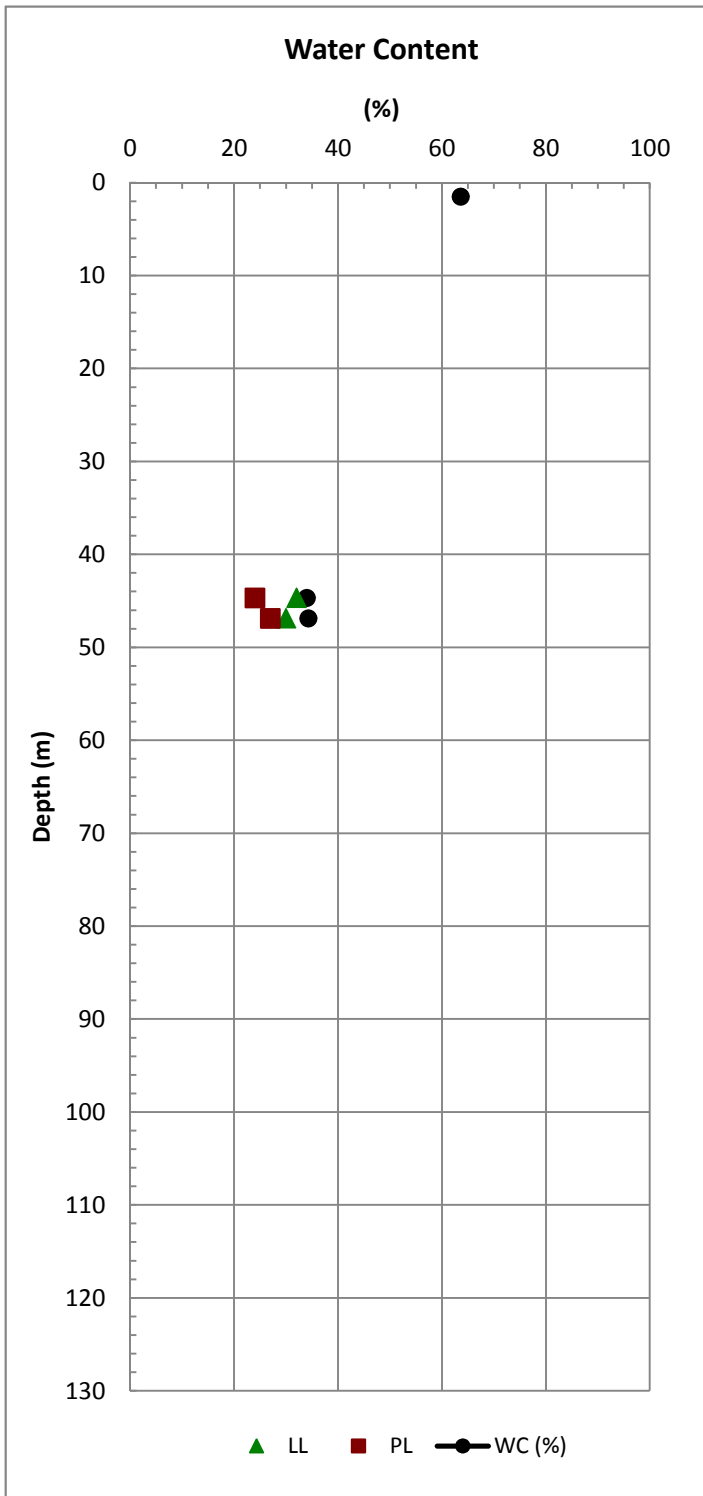
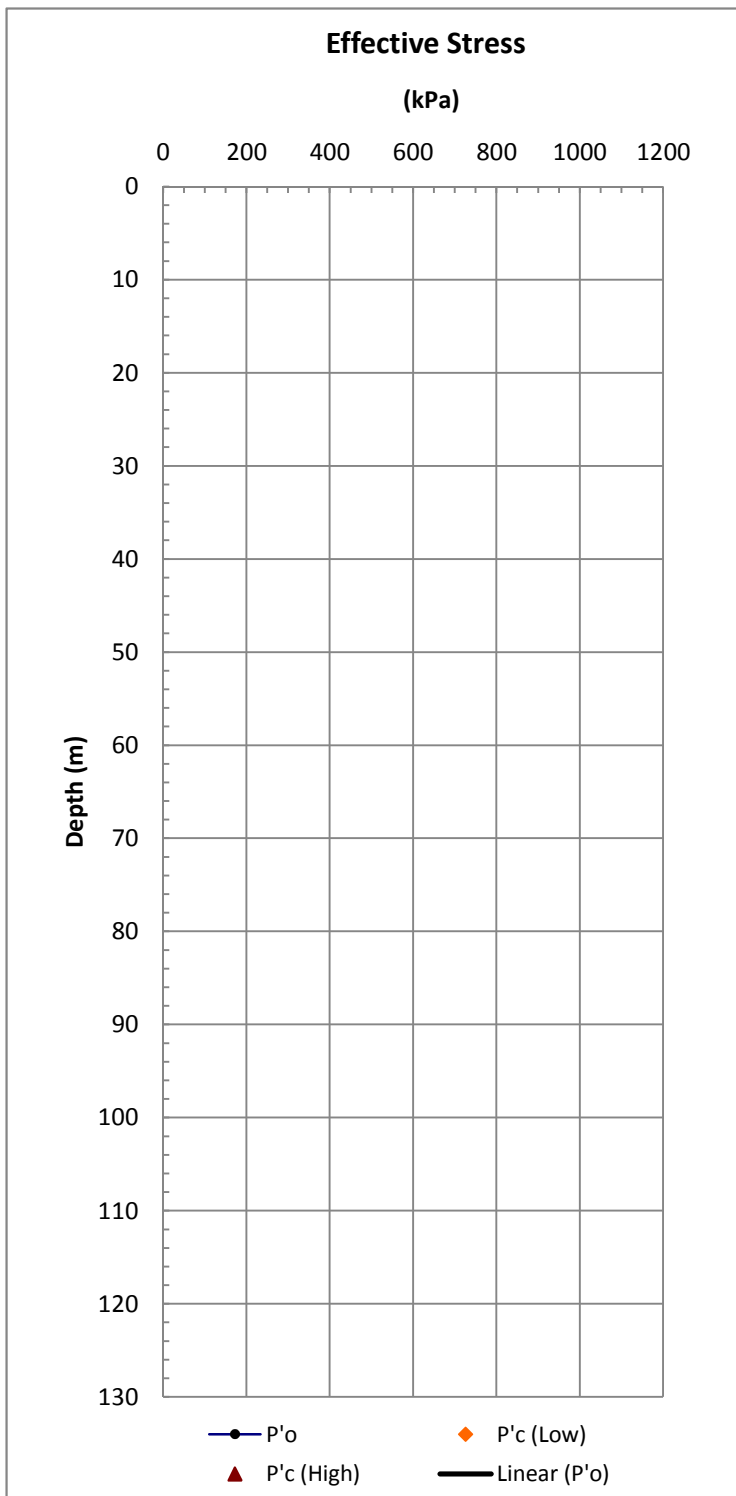
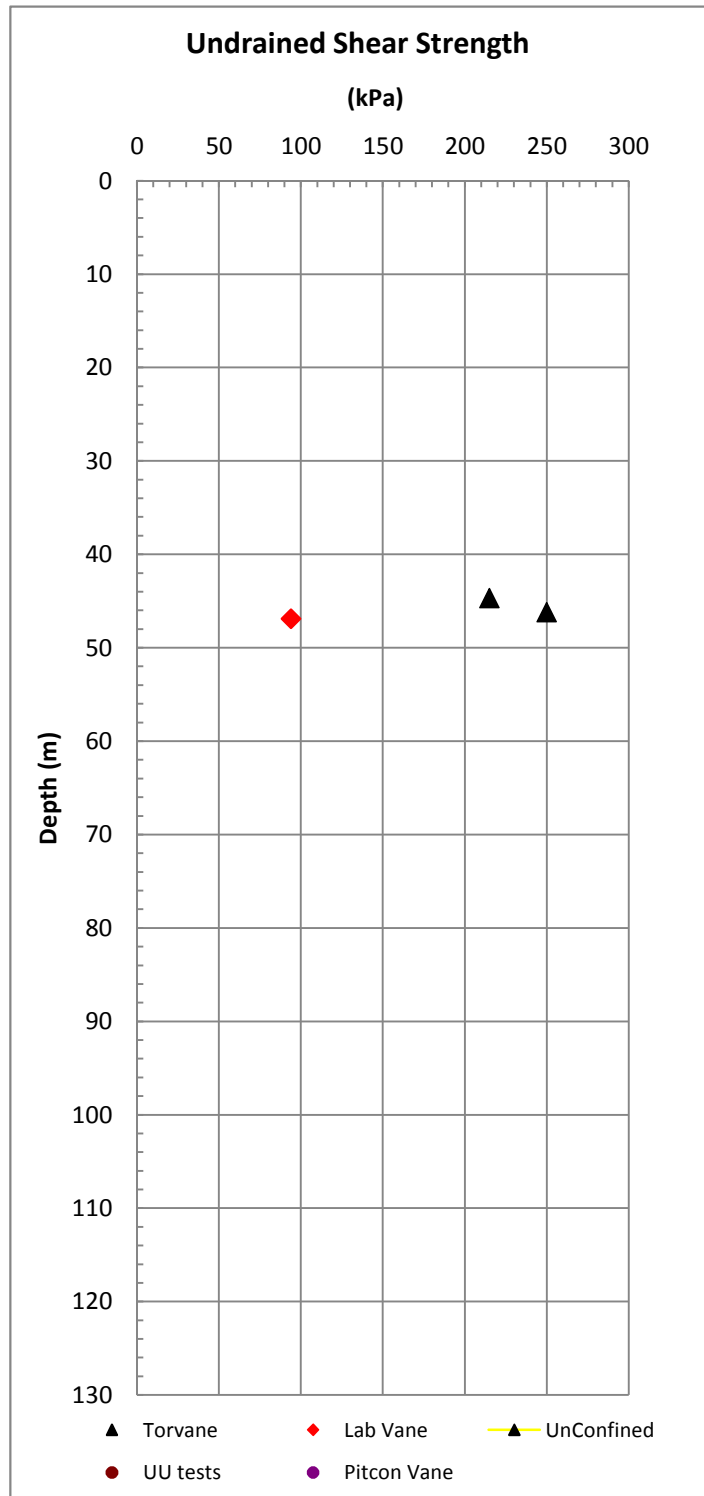
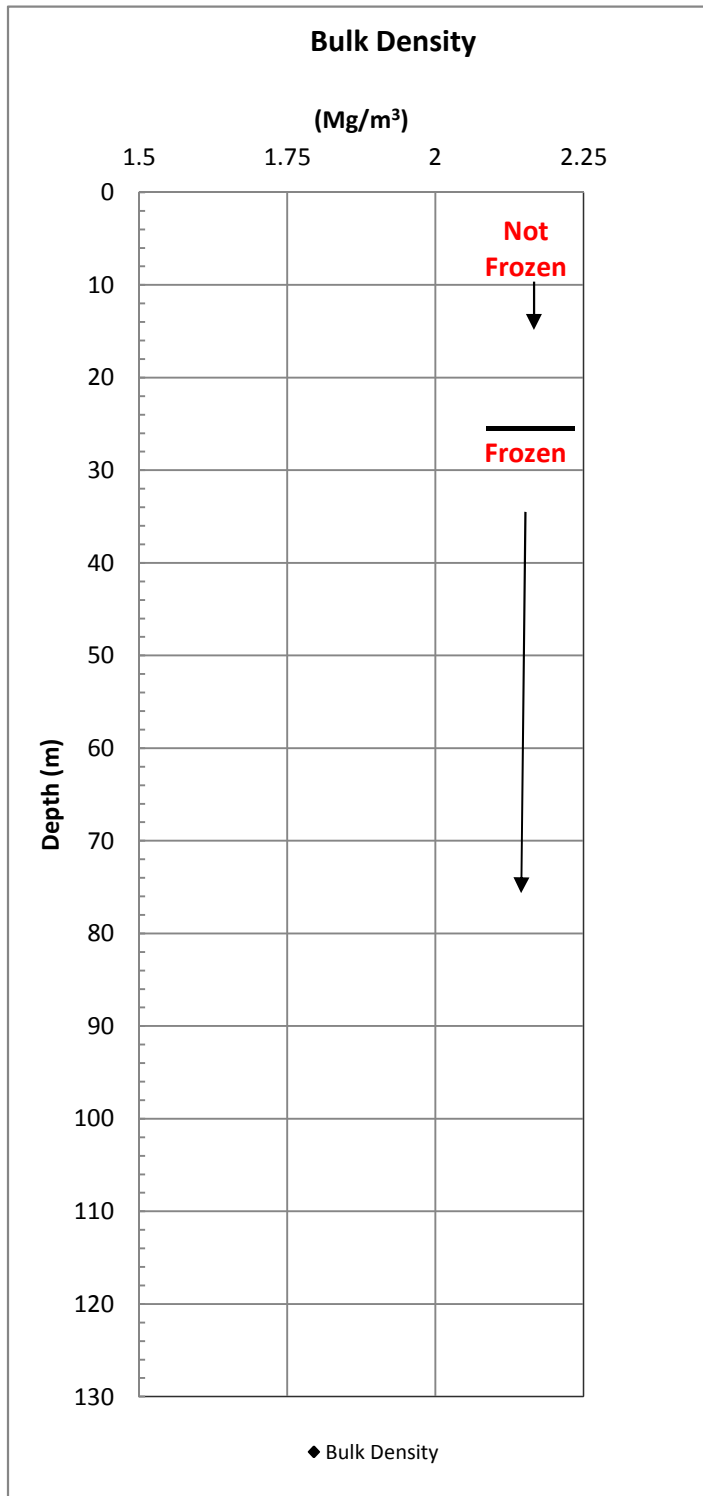


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Kopanoar I-44 Boring 2

Figure C.3

10033 Beaufort Data

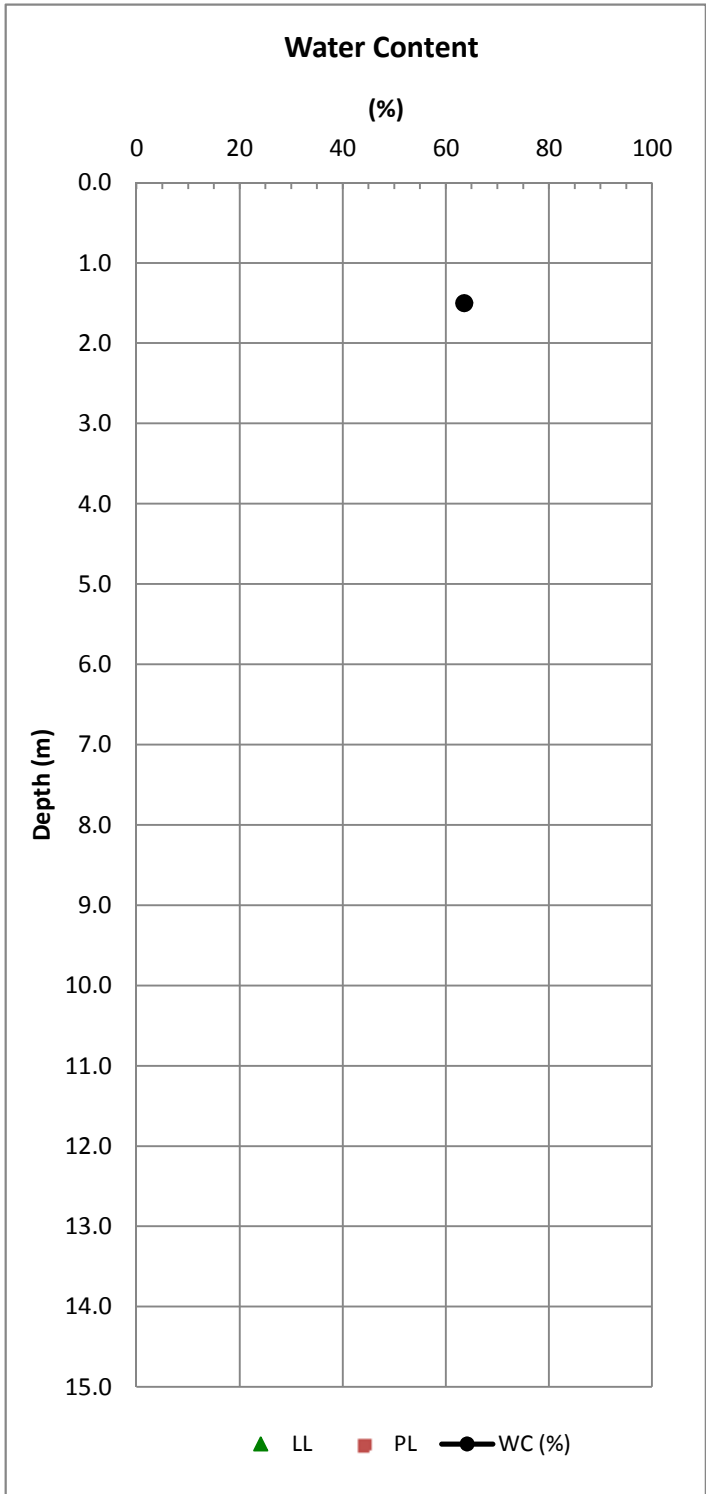
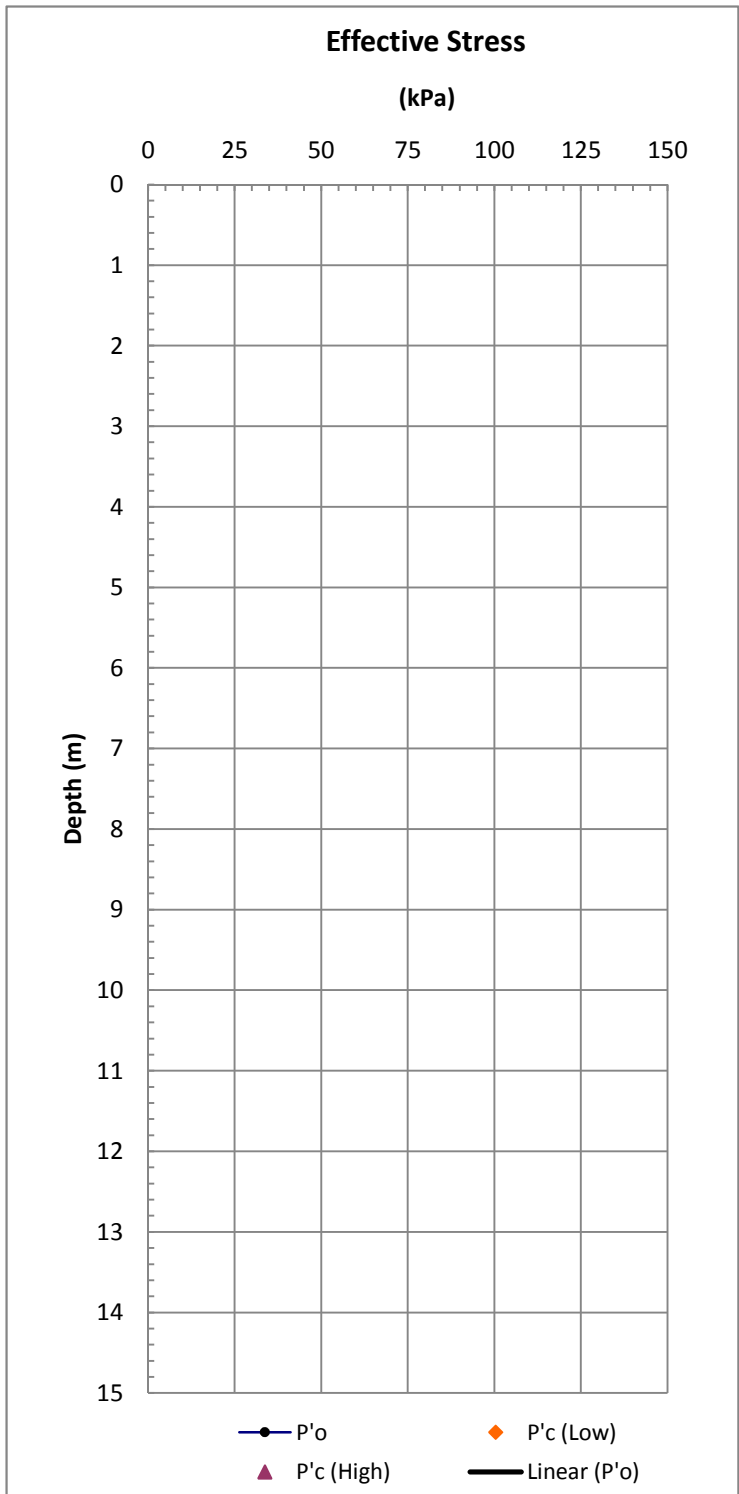
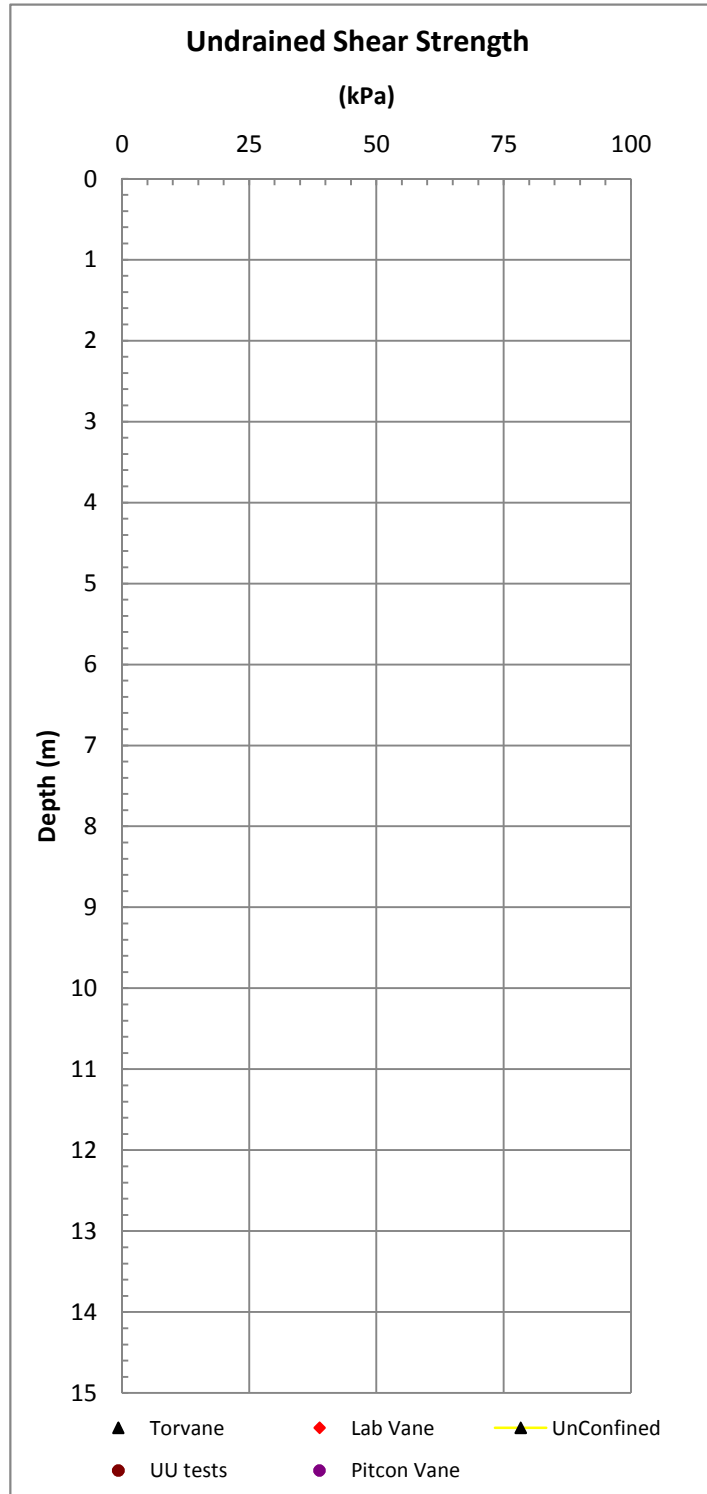
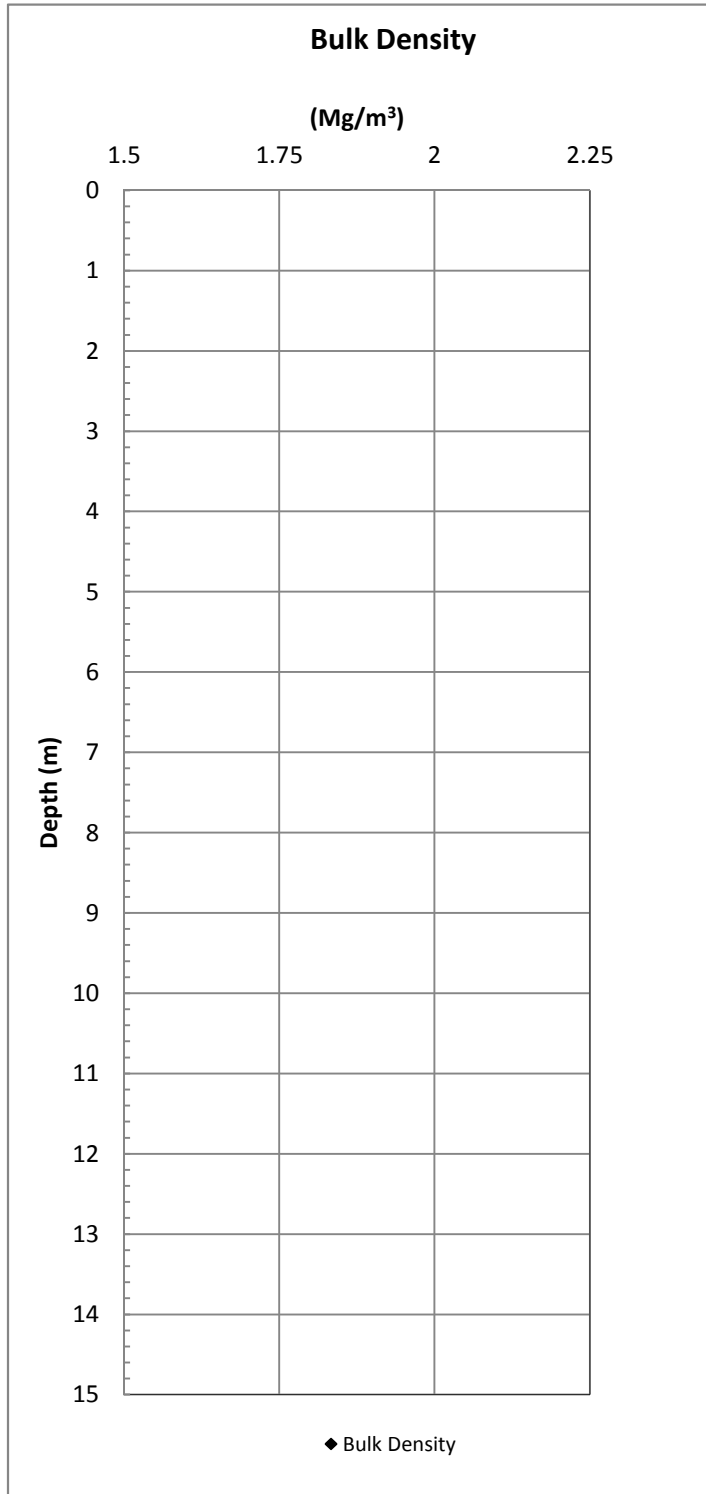


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Figure C.3

10033 Beaufort Data

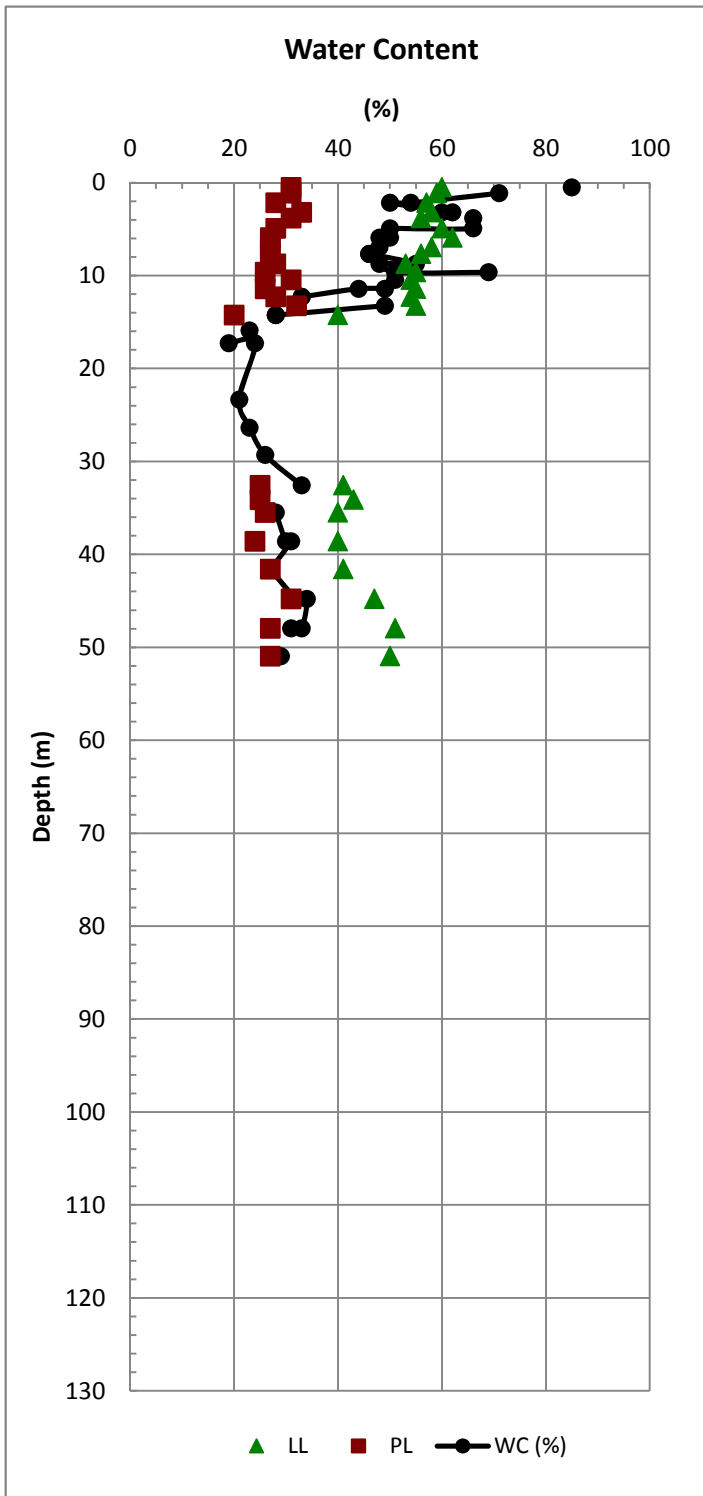
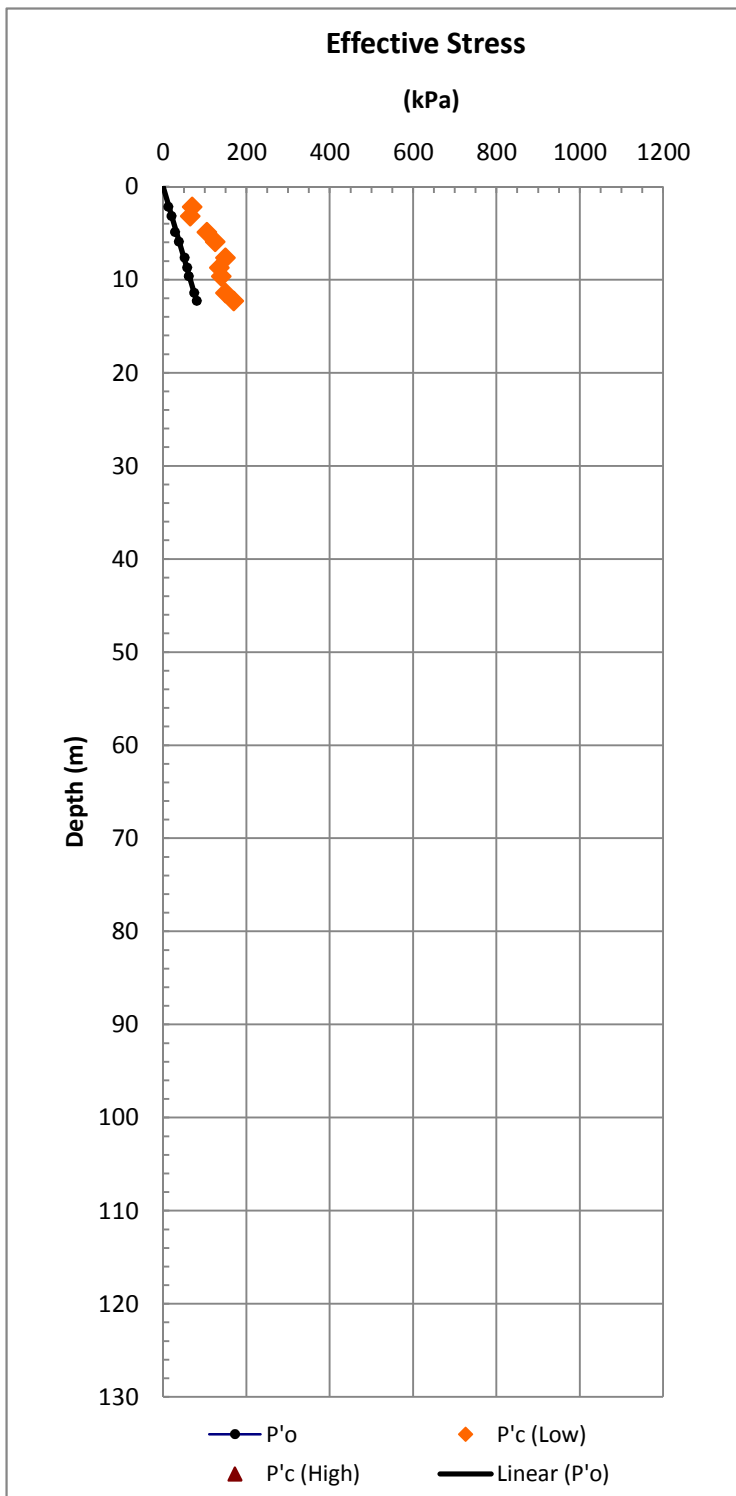
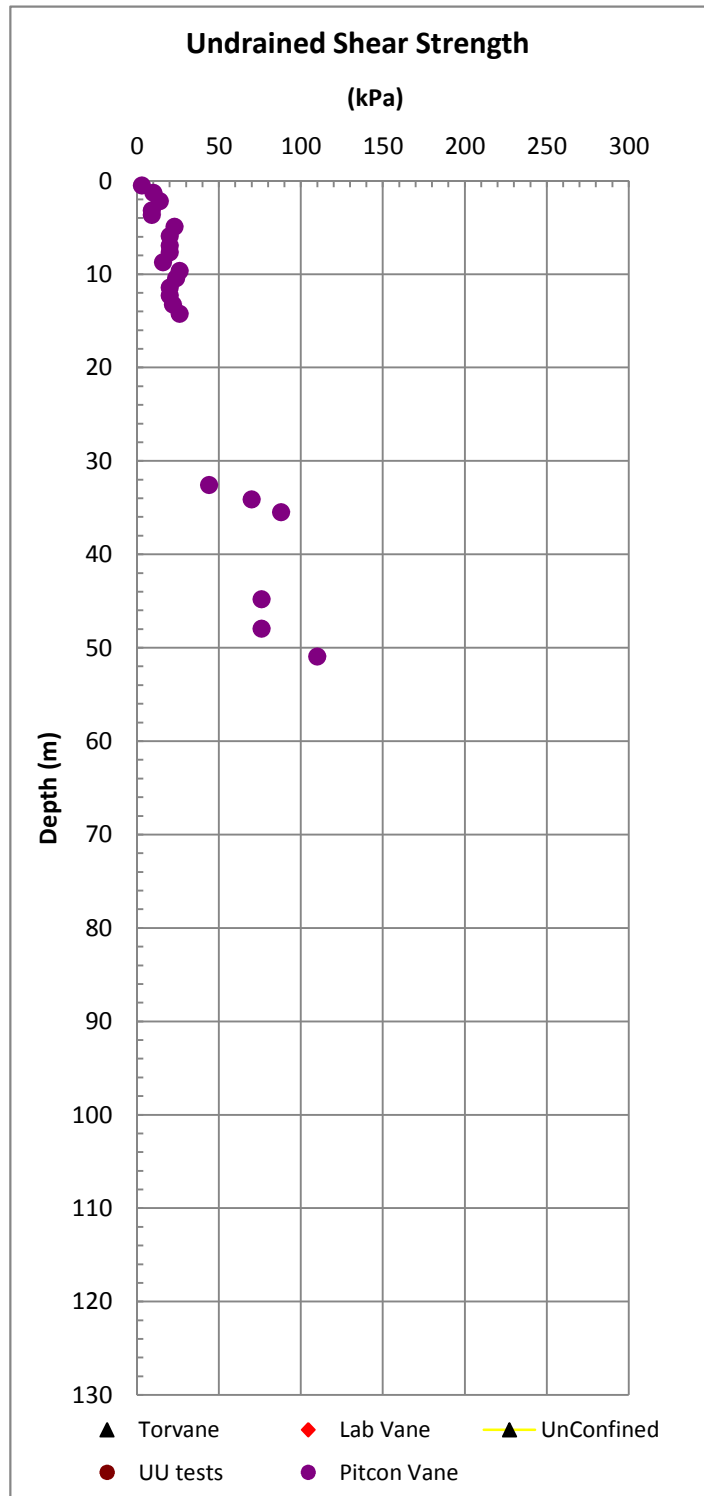
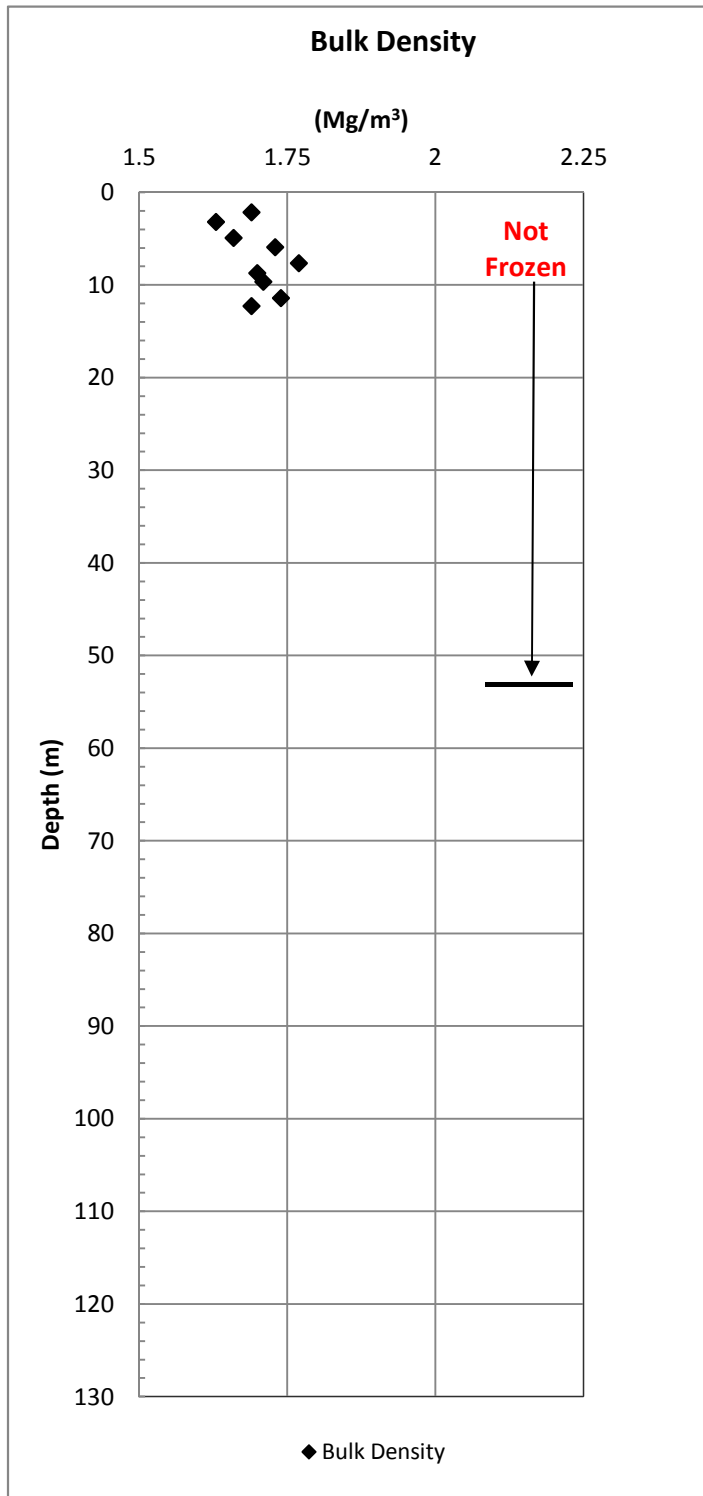


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Figure C.3

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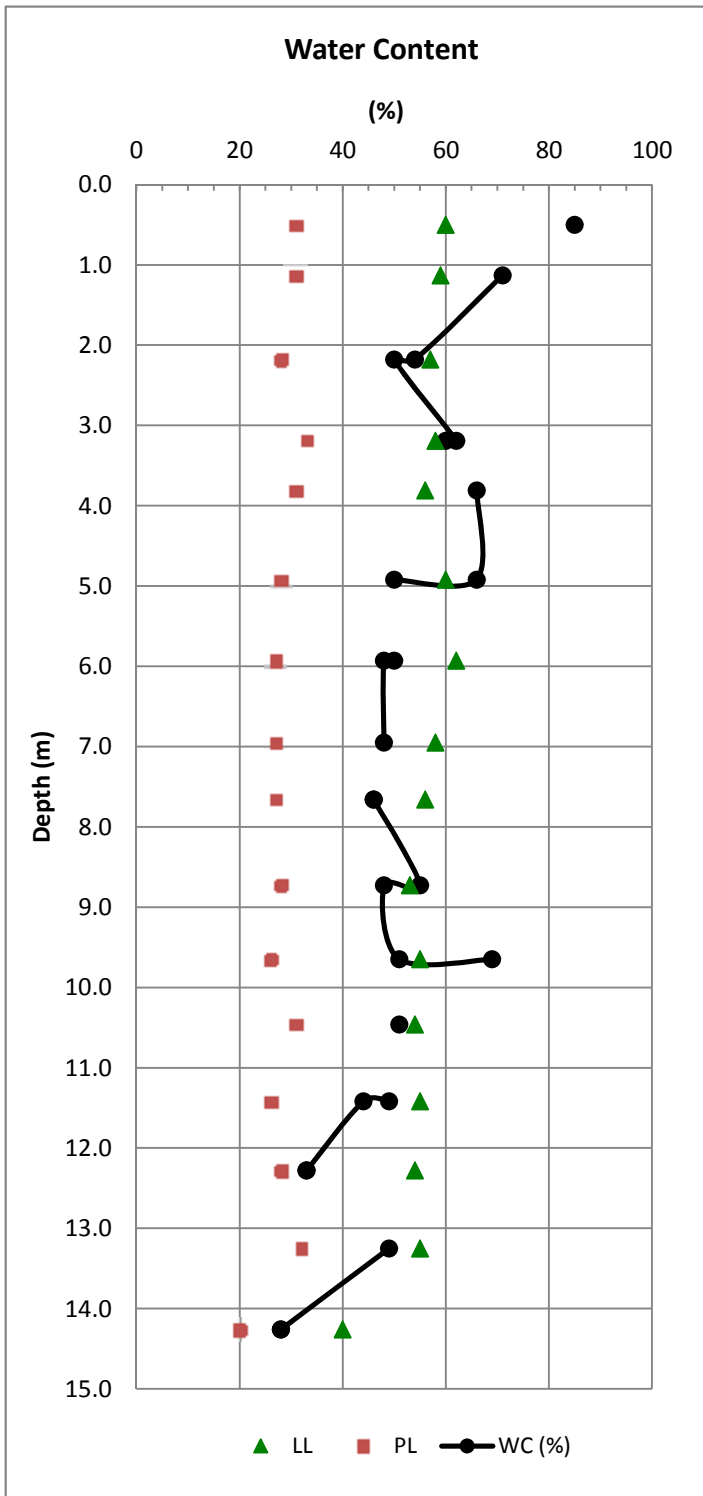
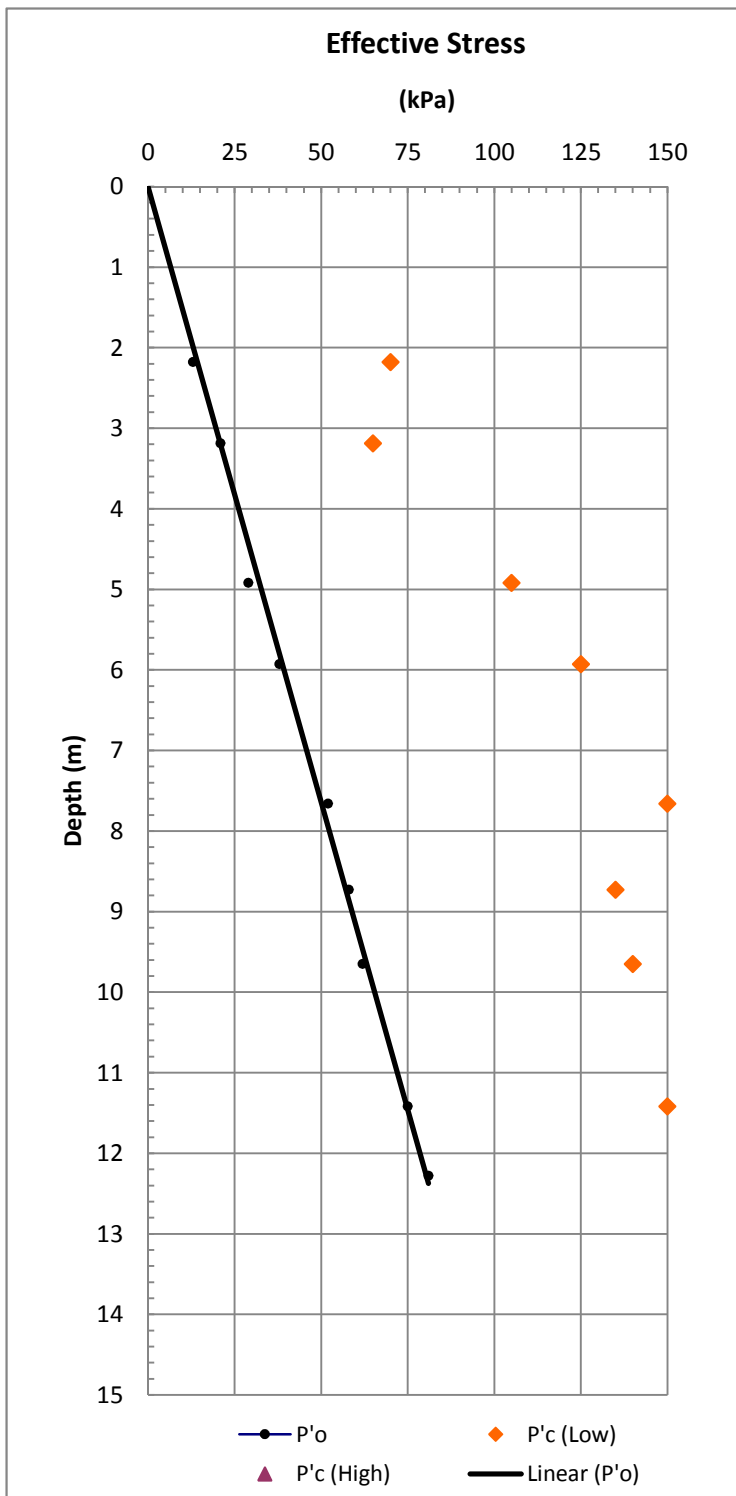
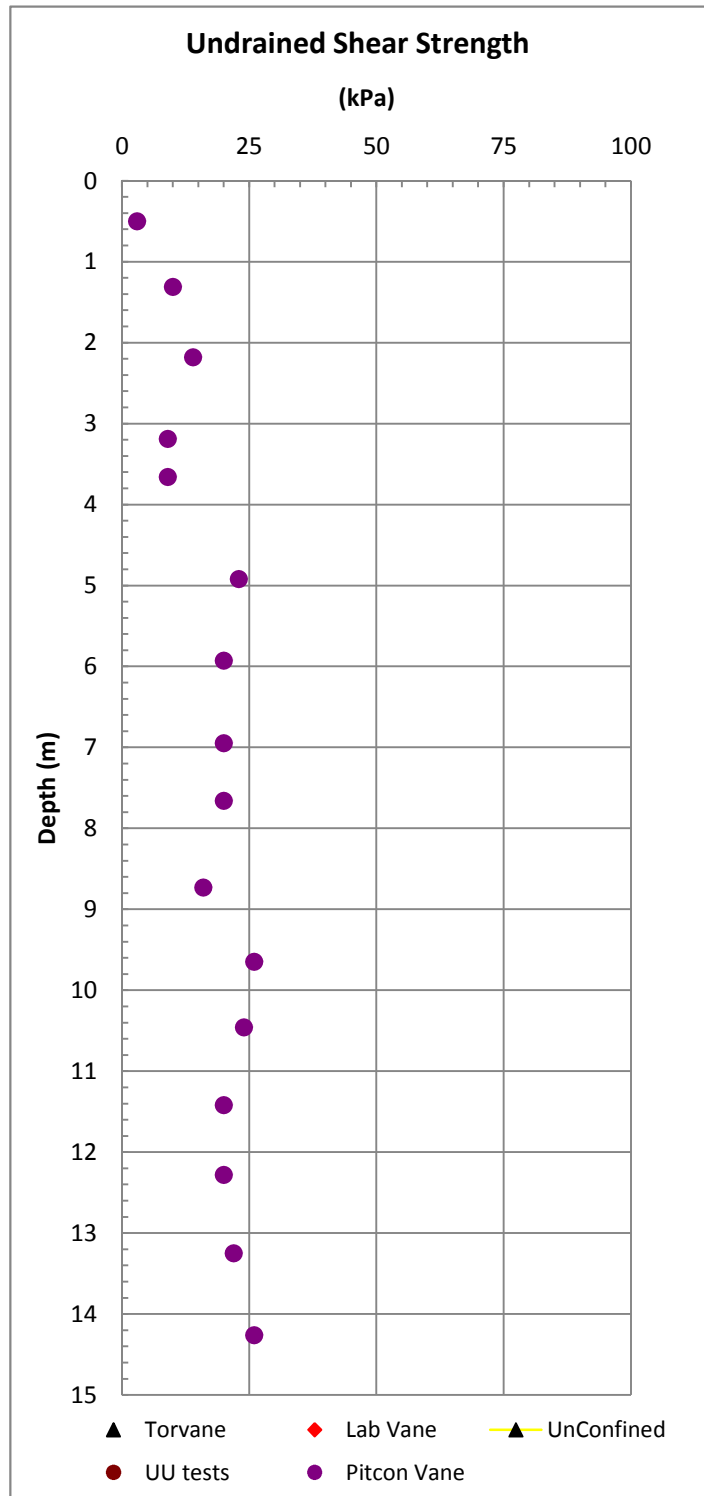
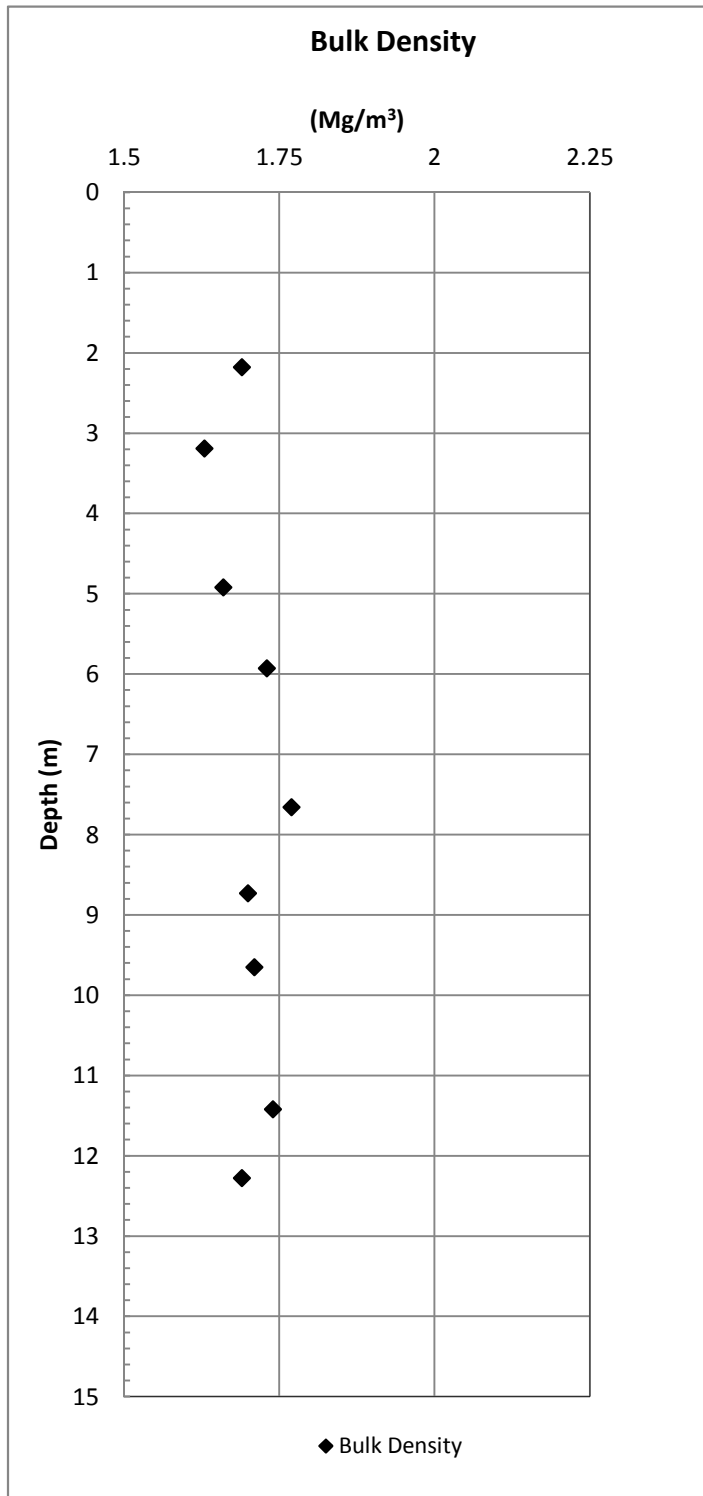


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Figure C.3

10033 Beaufort Data

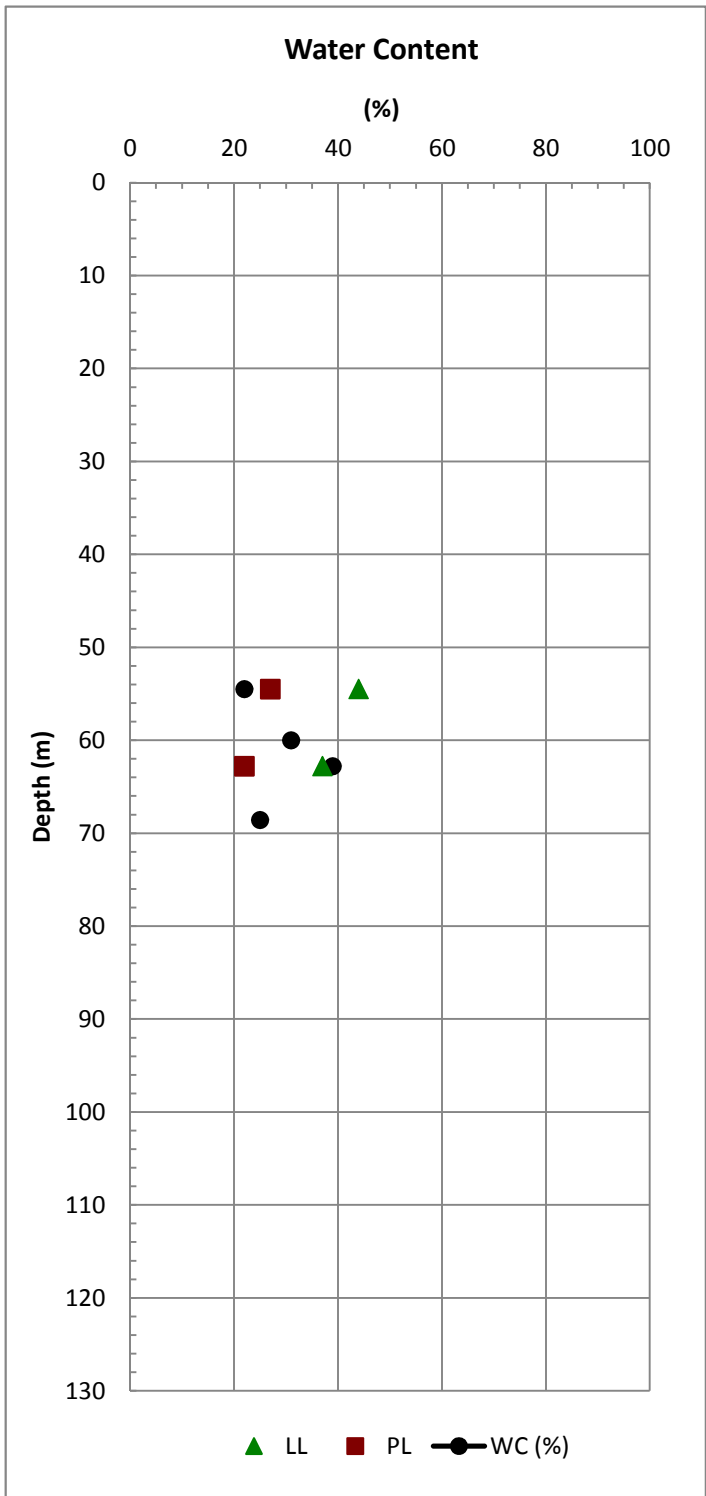
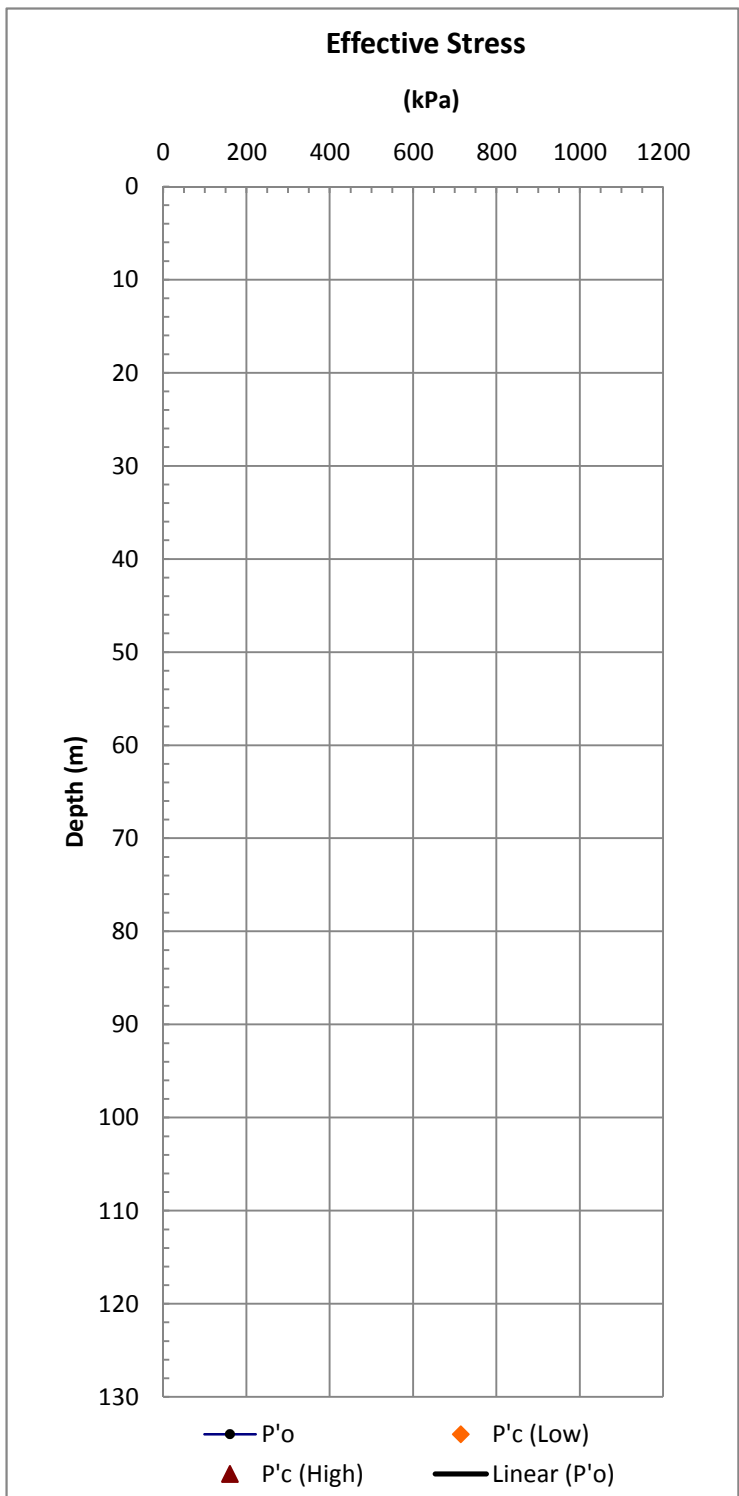
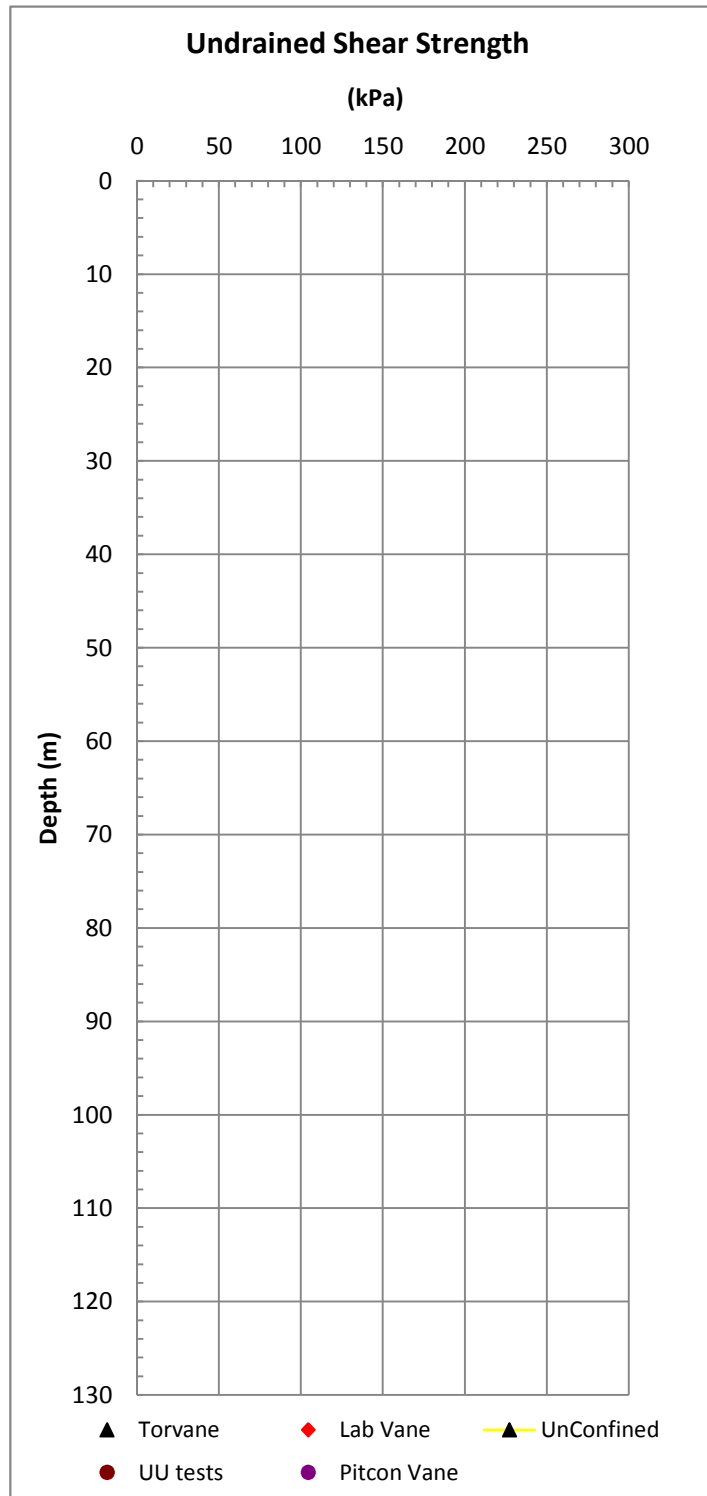
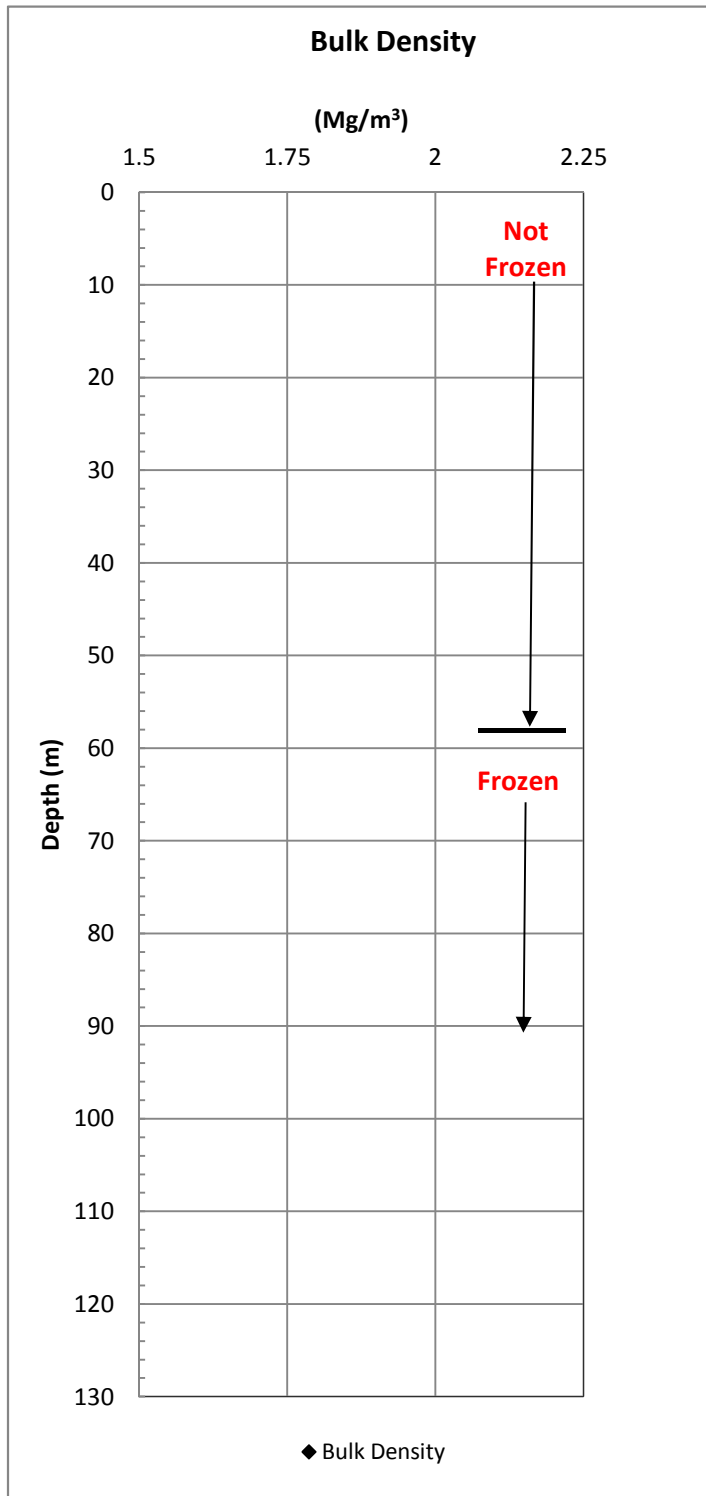


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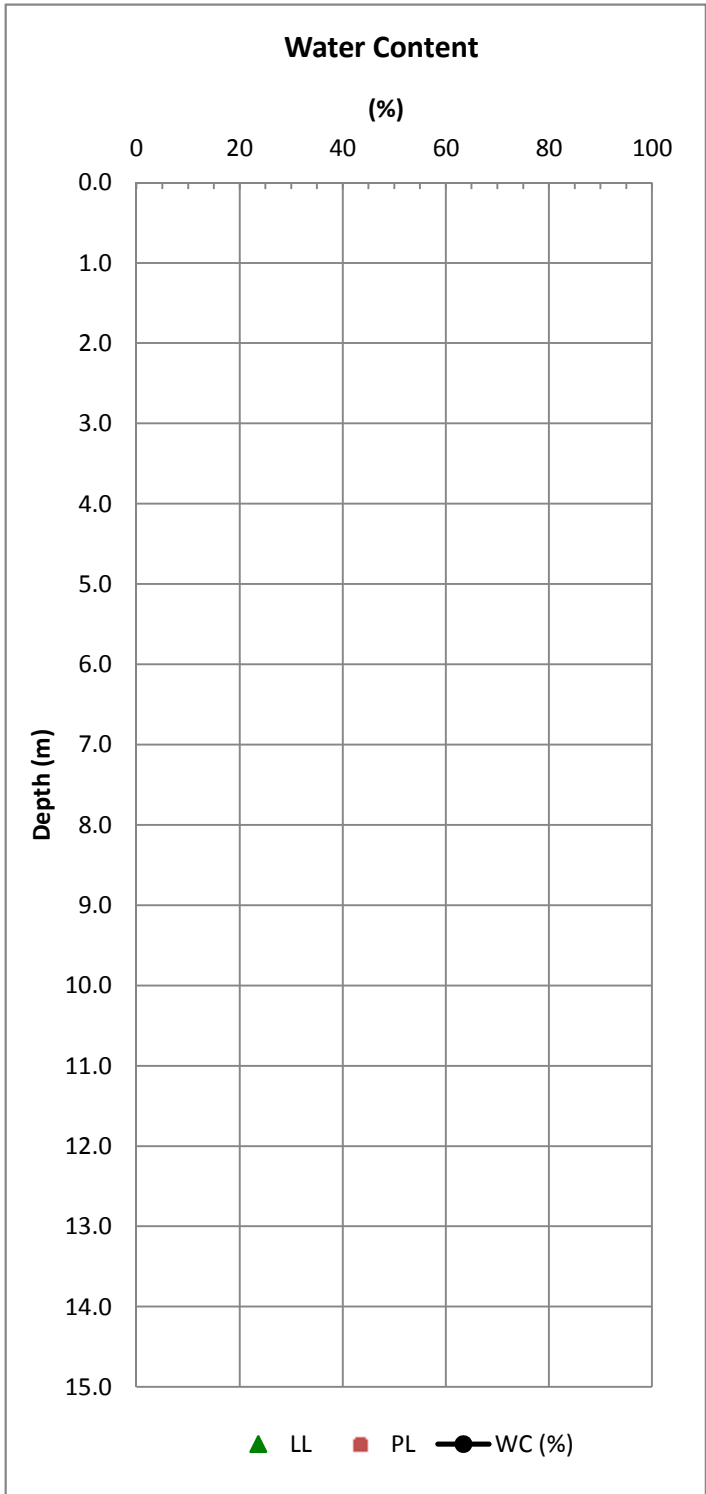
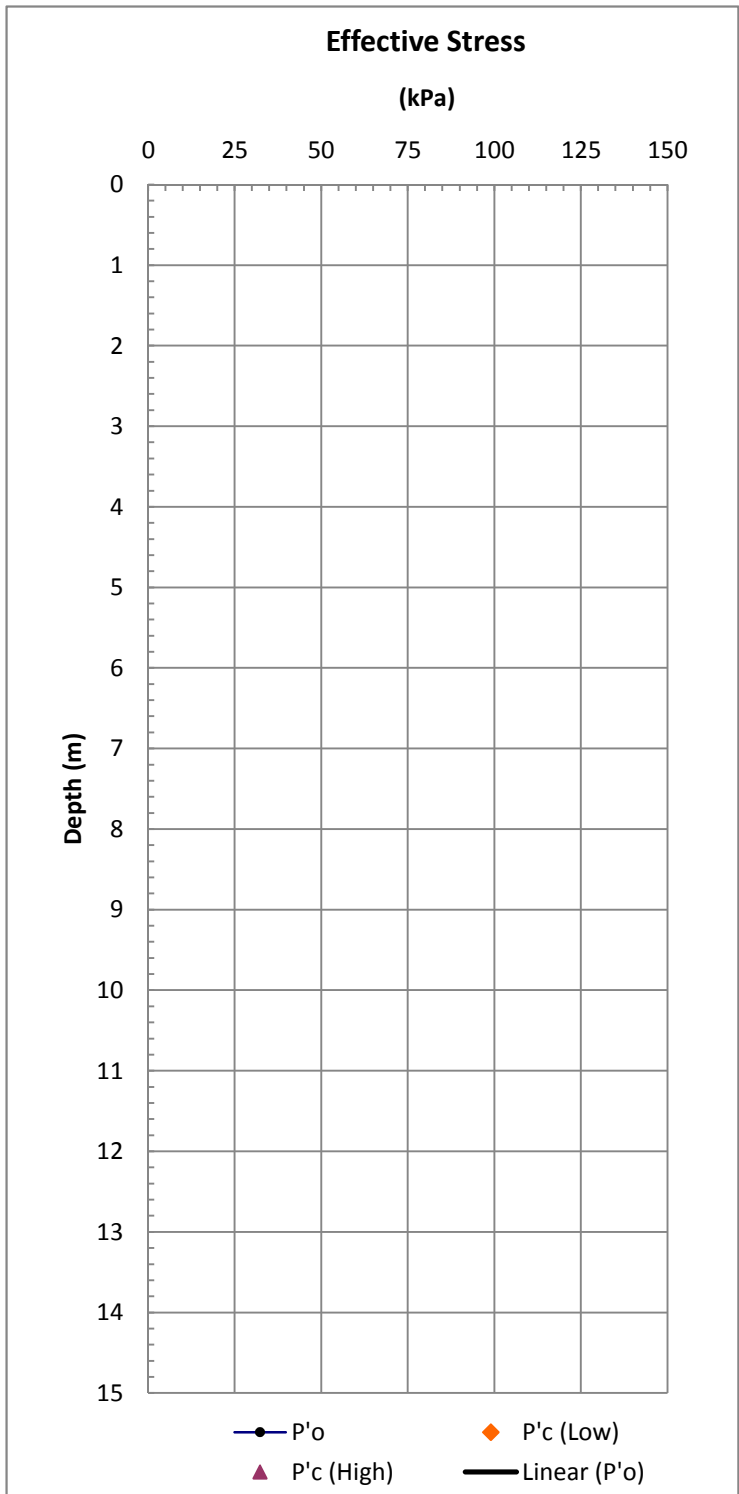
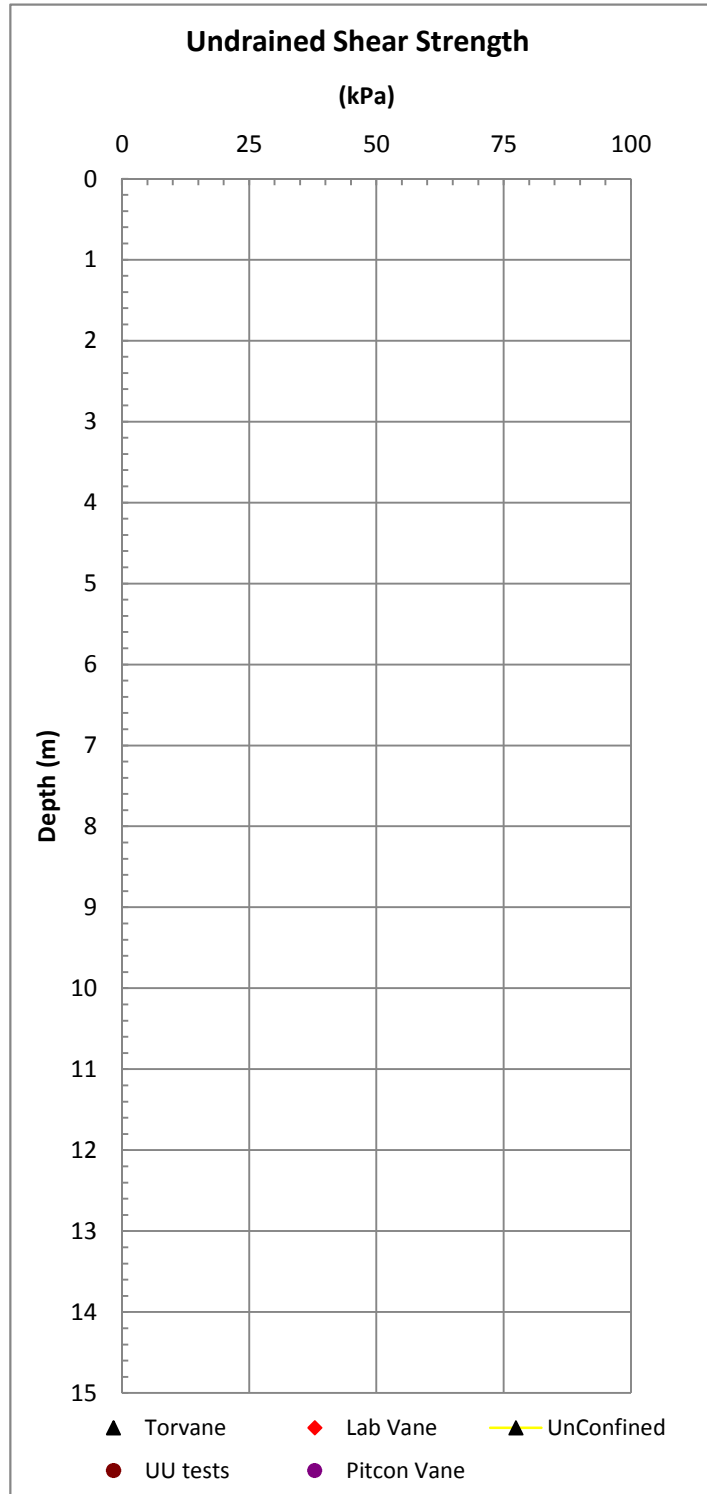
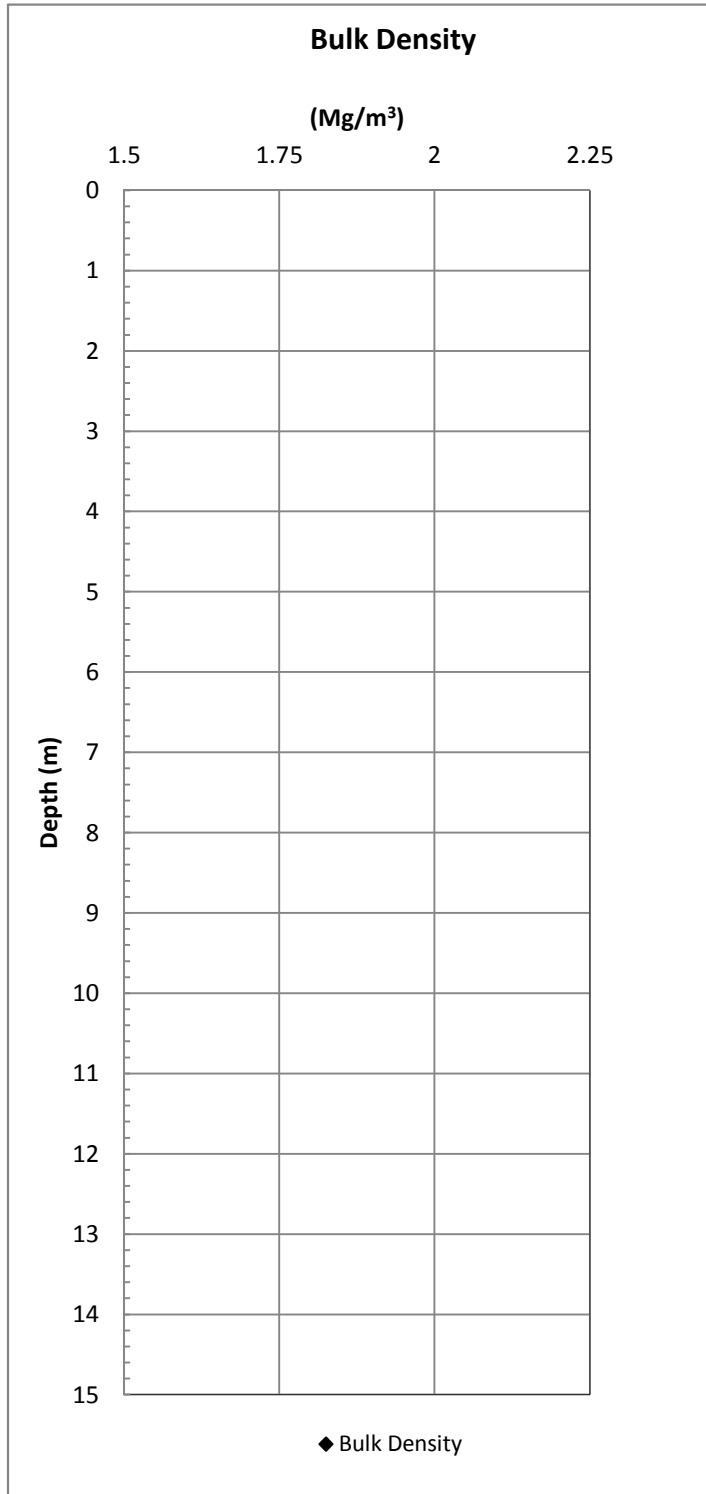


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Figure C.3

10033 Beaufort Data

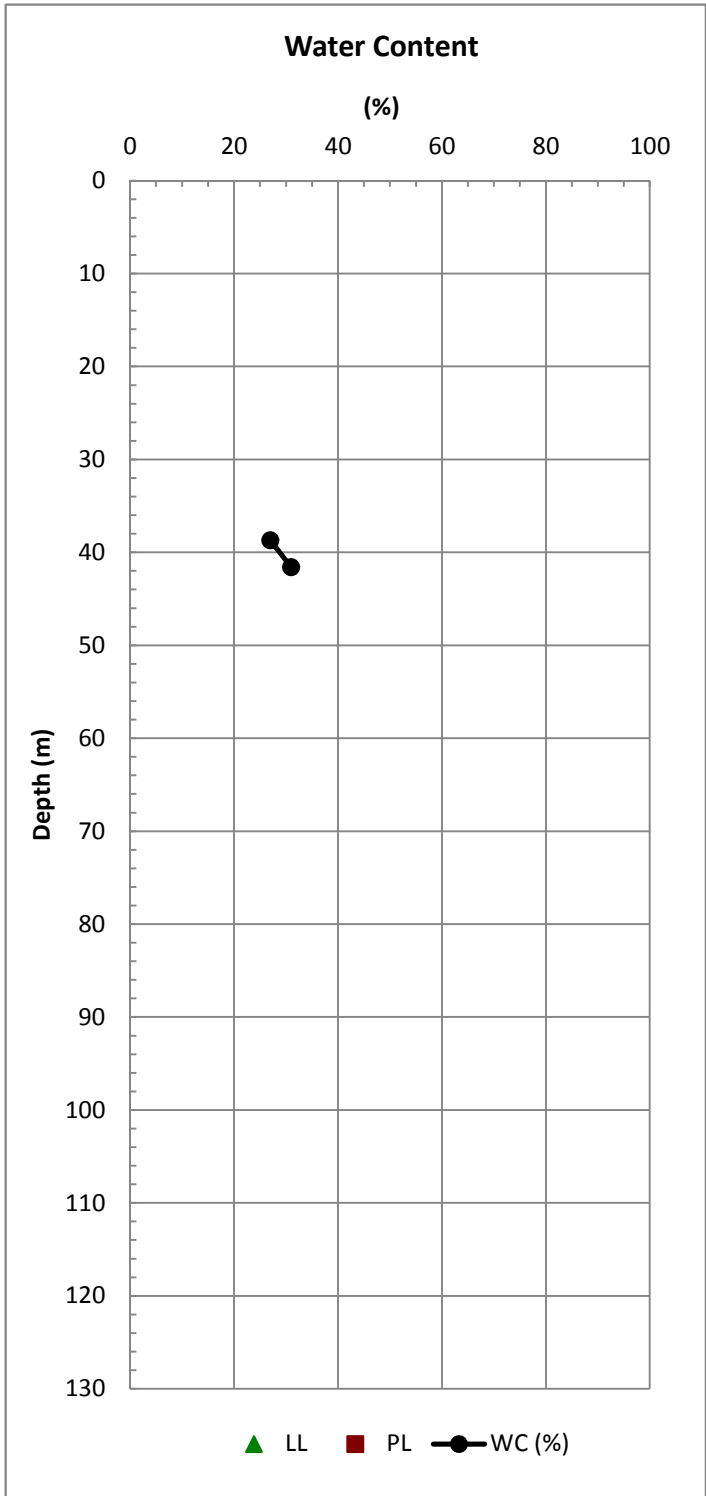
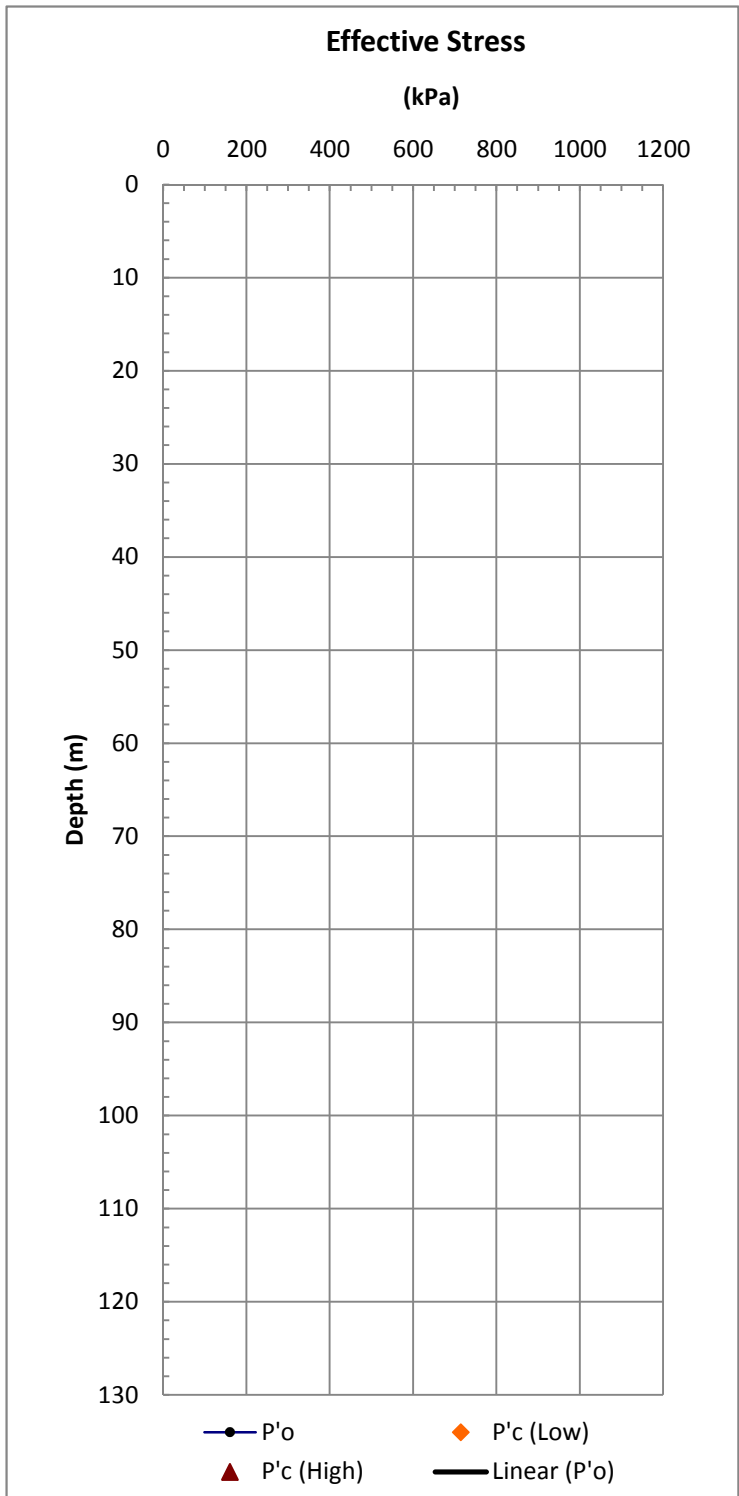
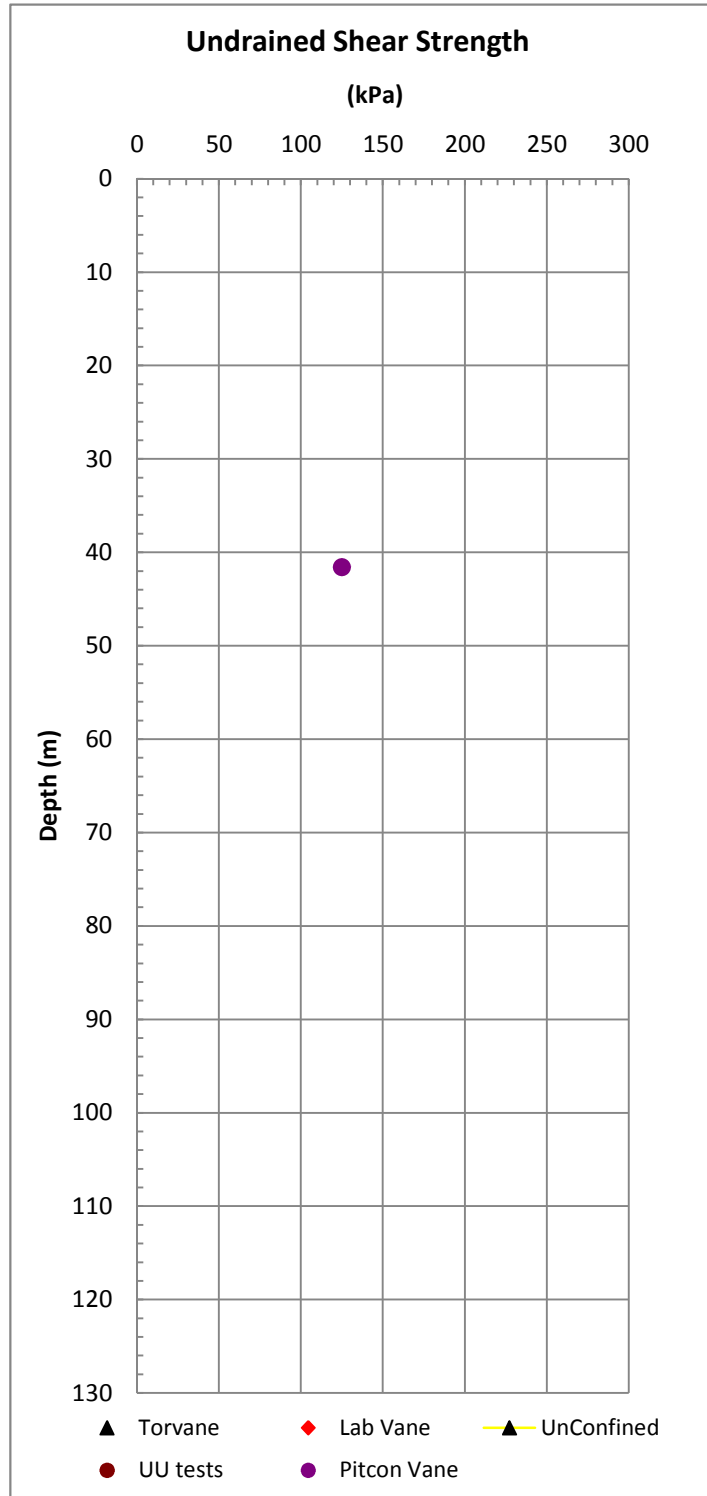
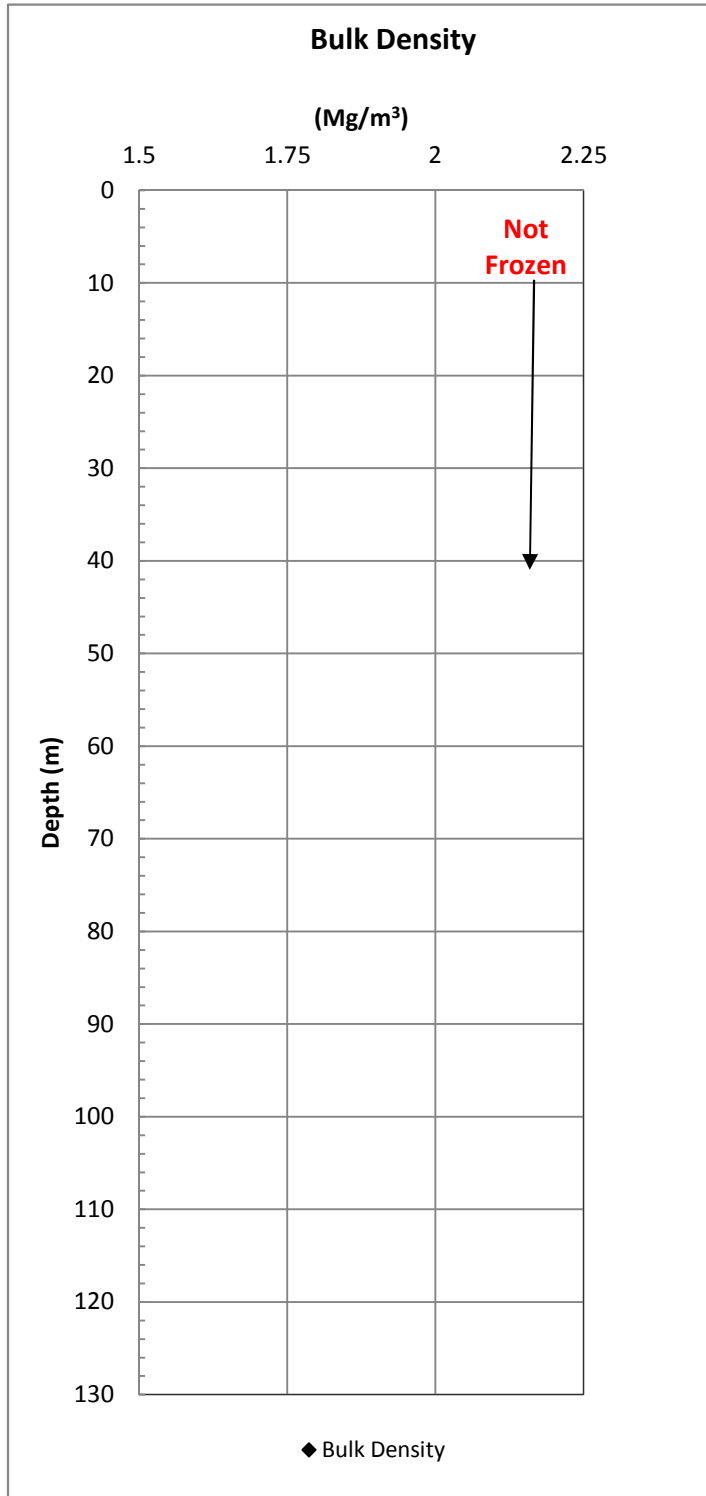


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Figure C.3

10033 Beaufort Data

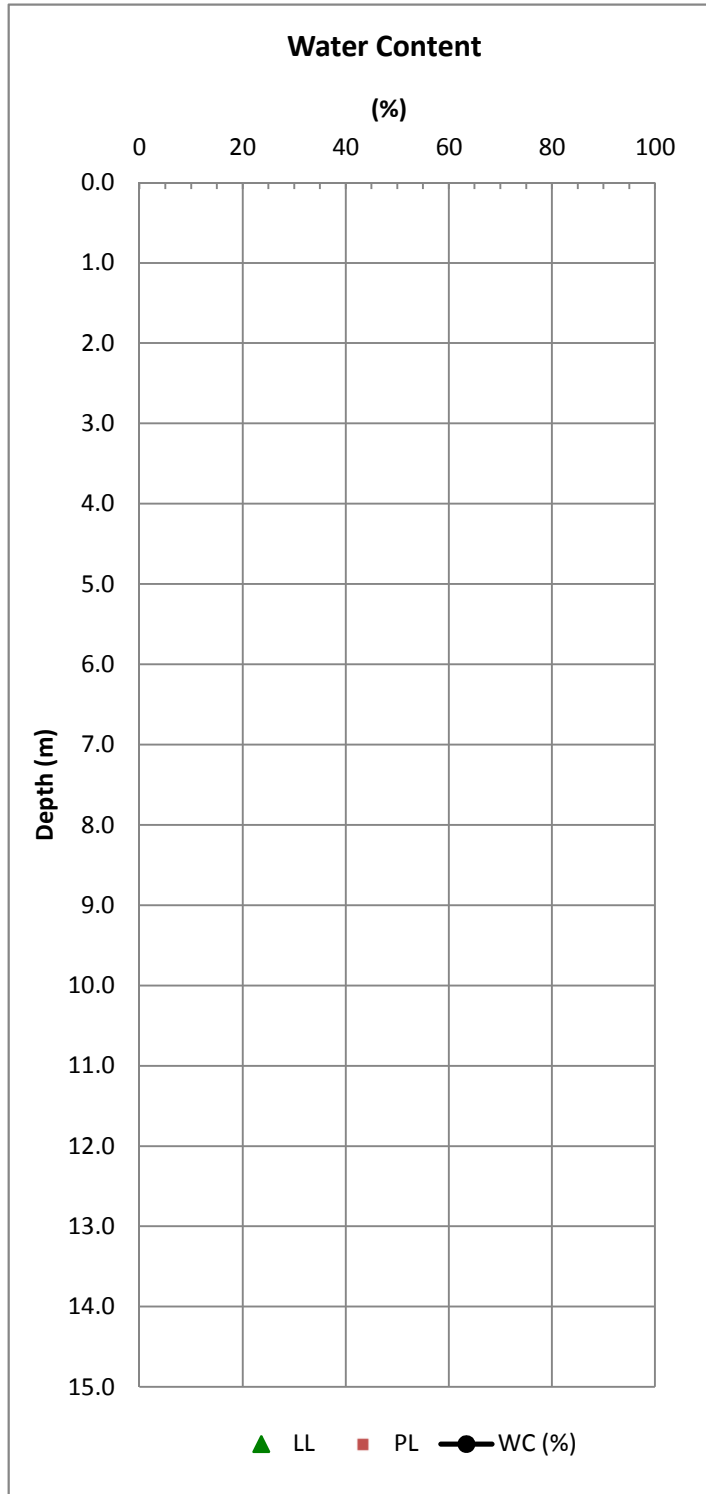
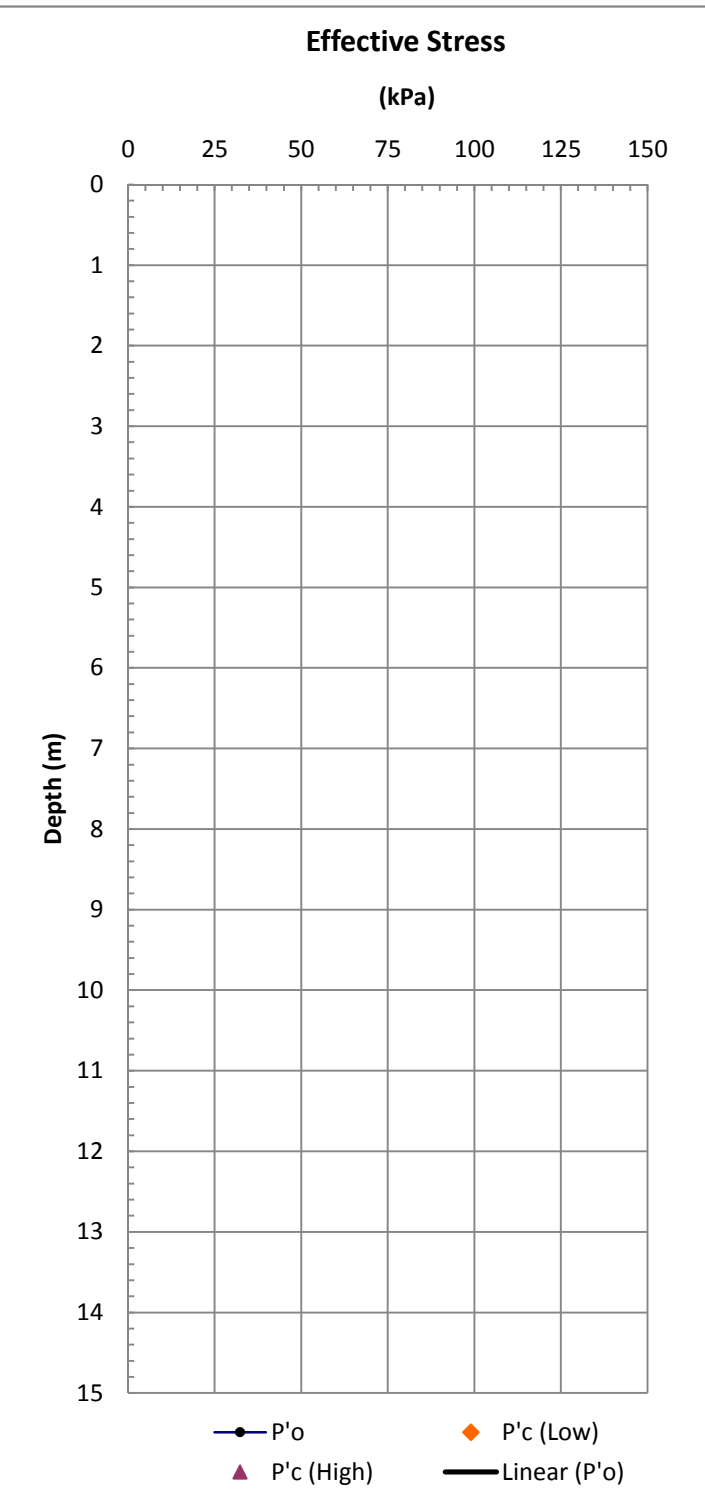
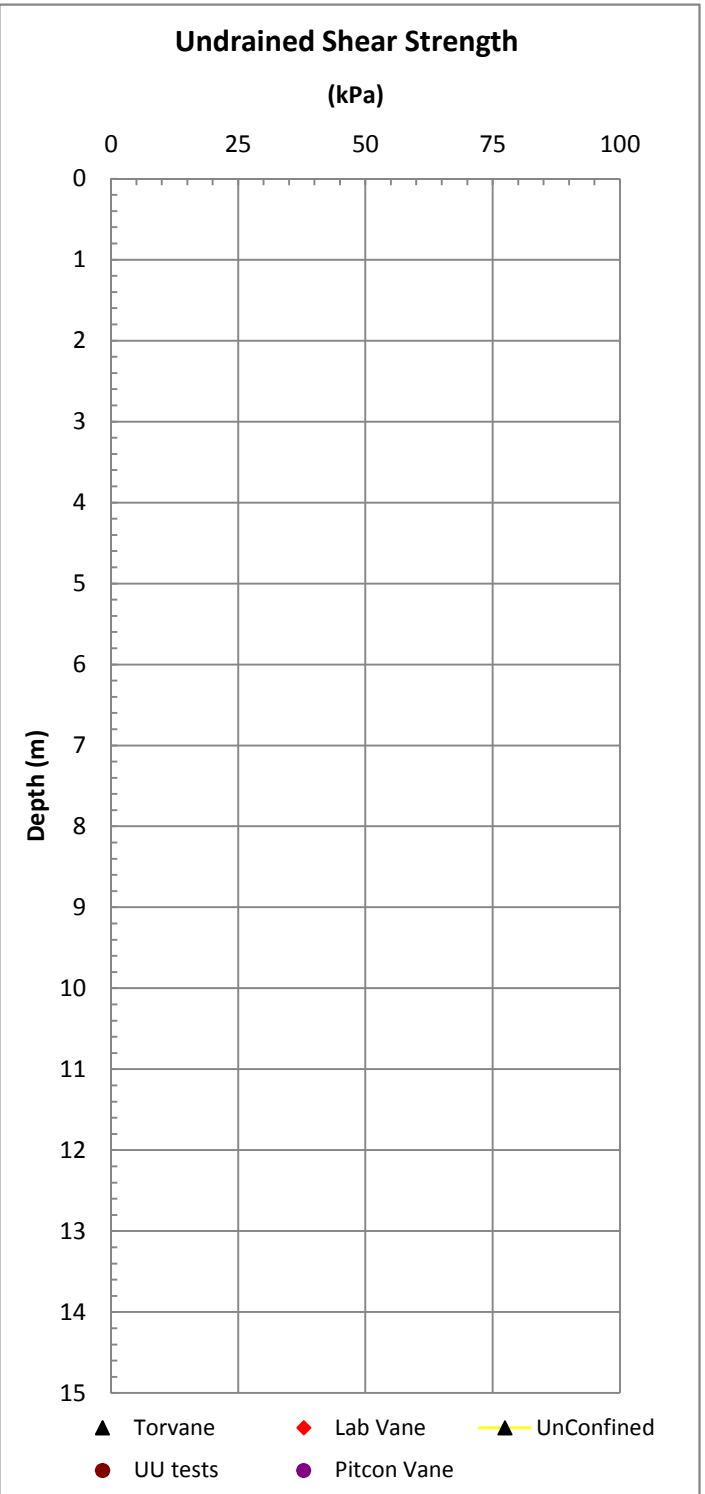
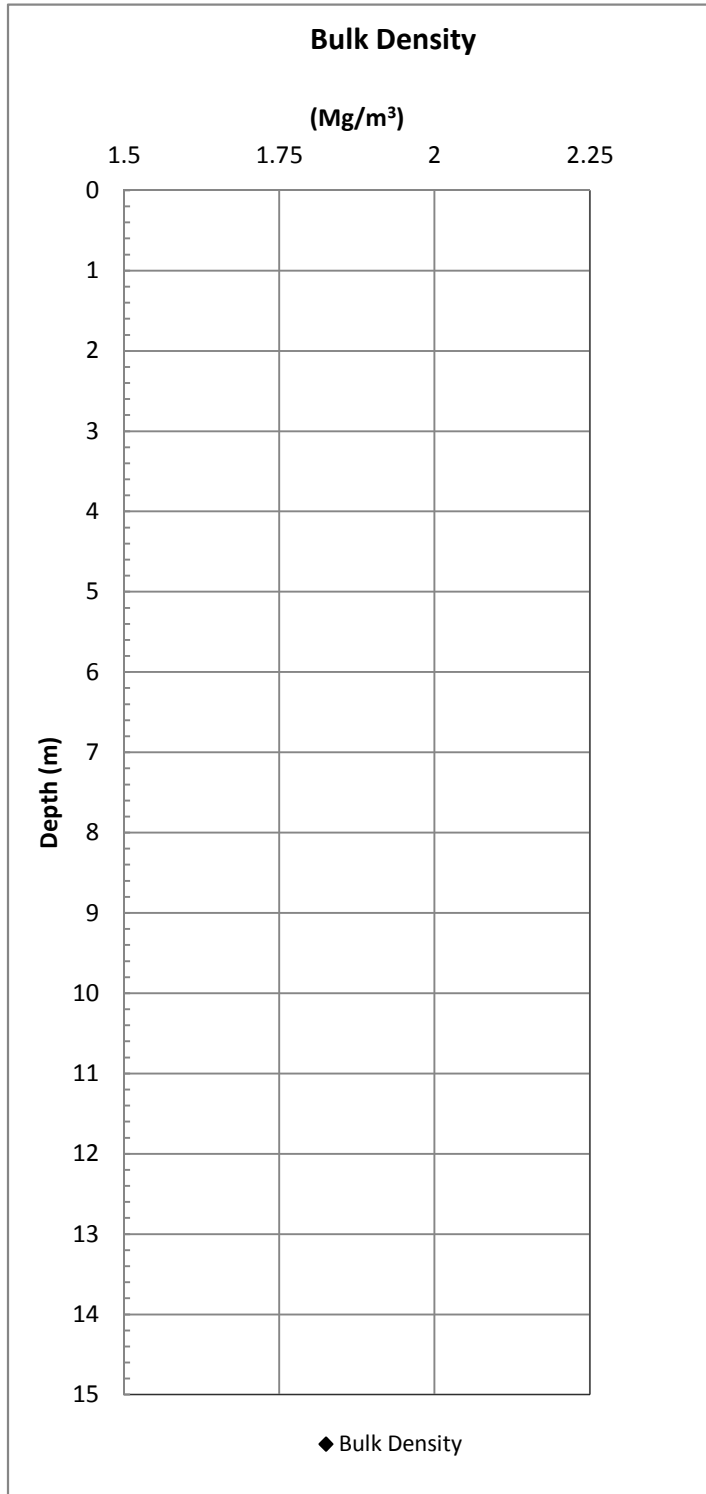


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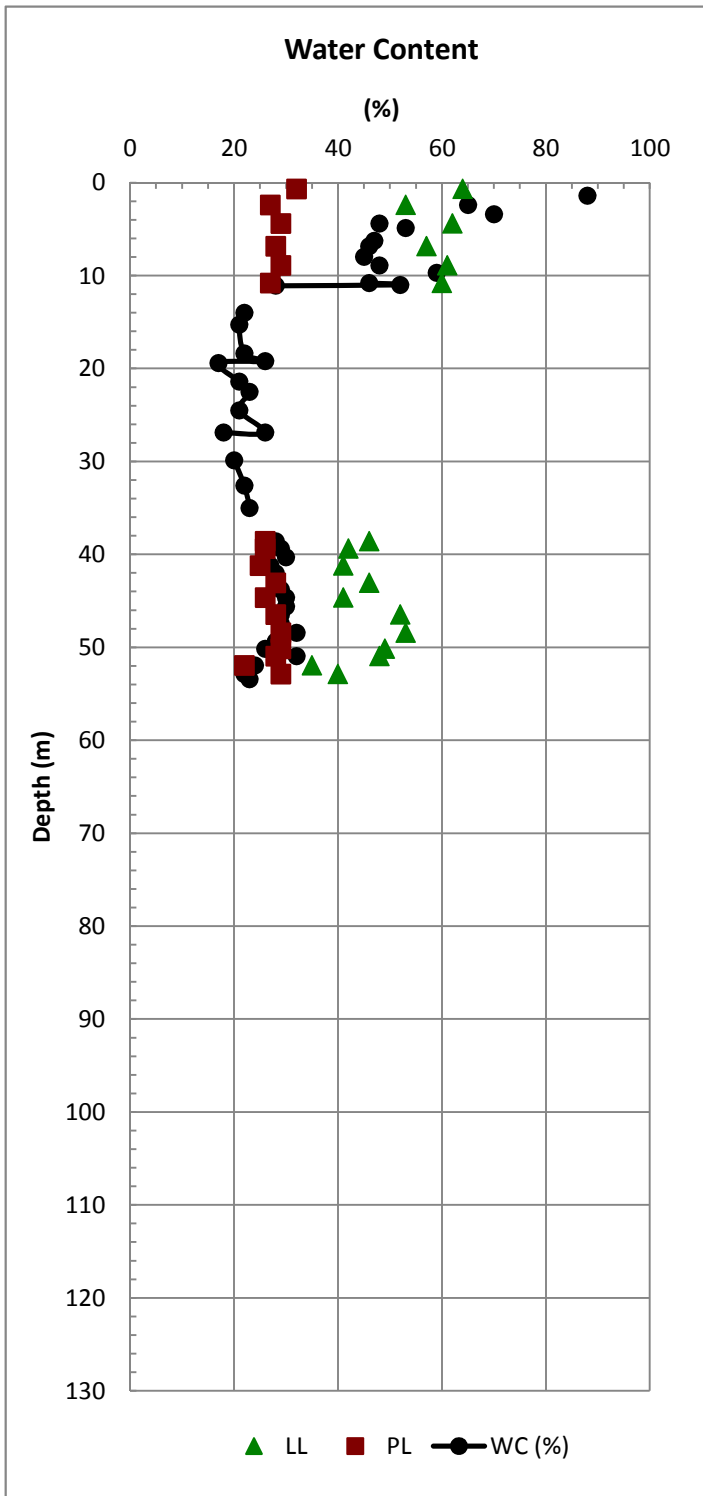
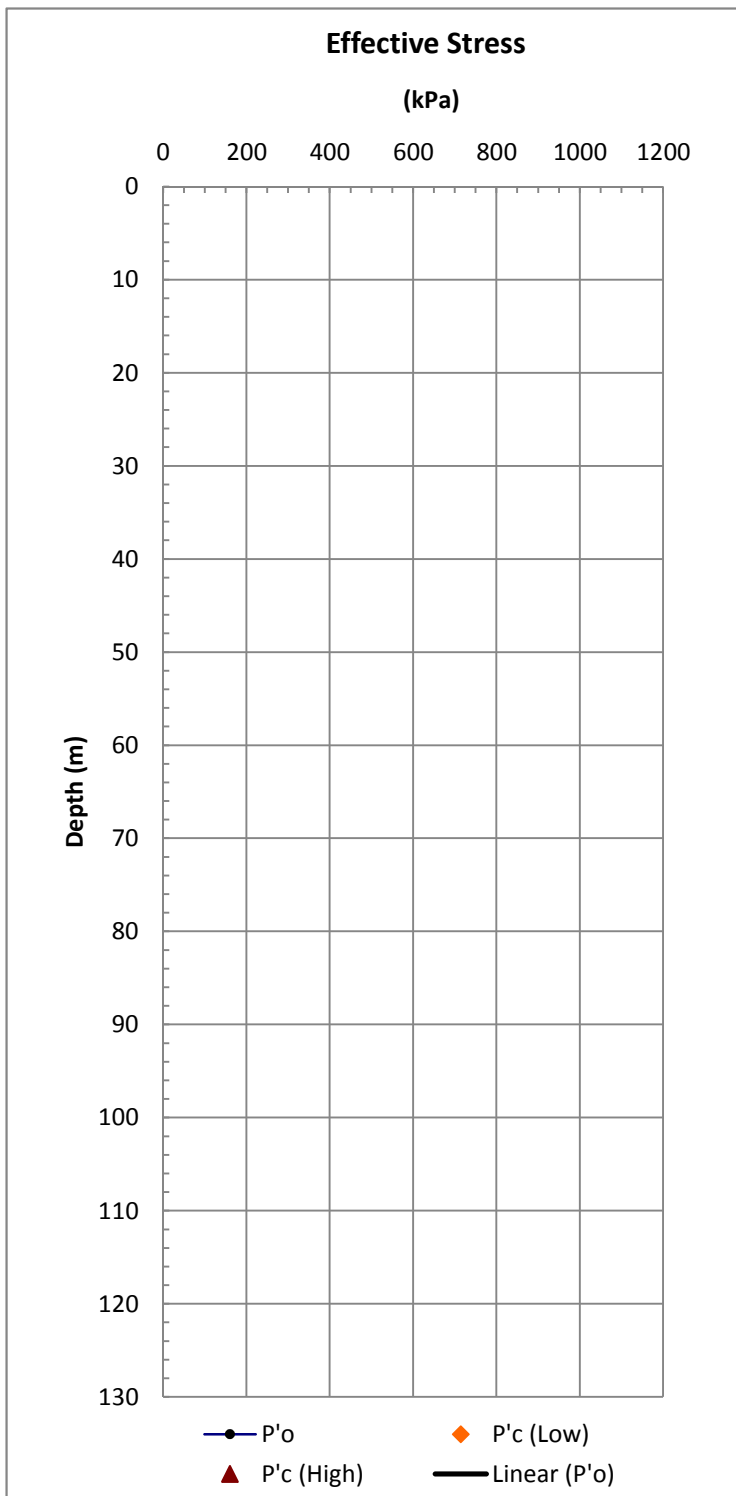
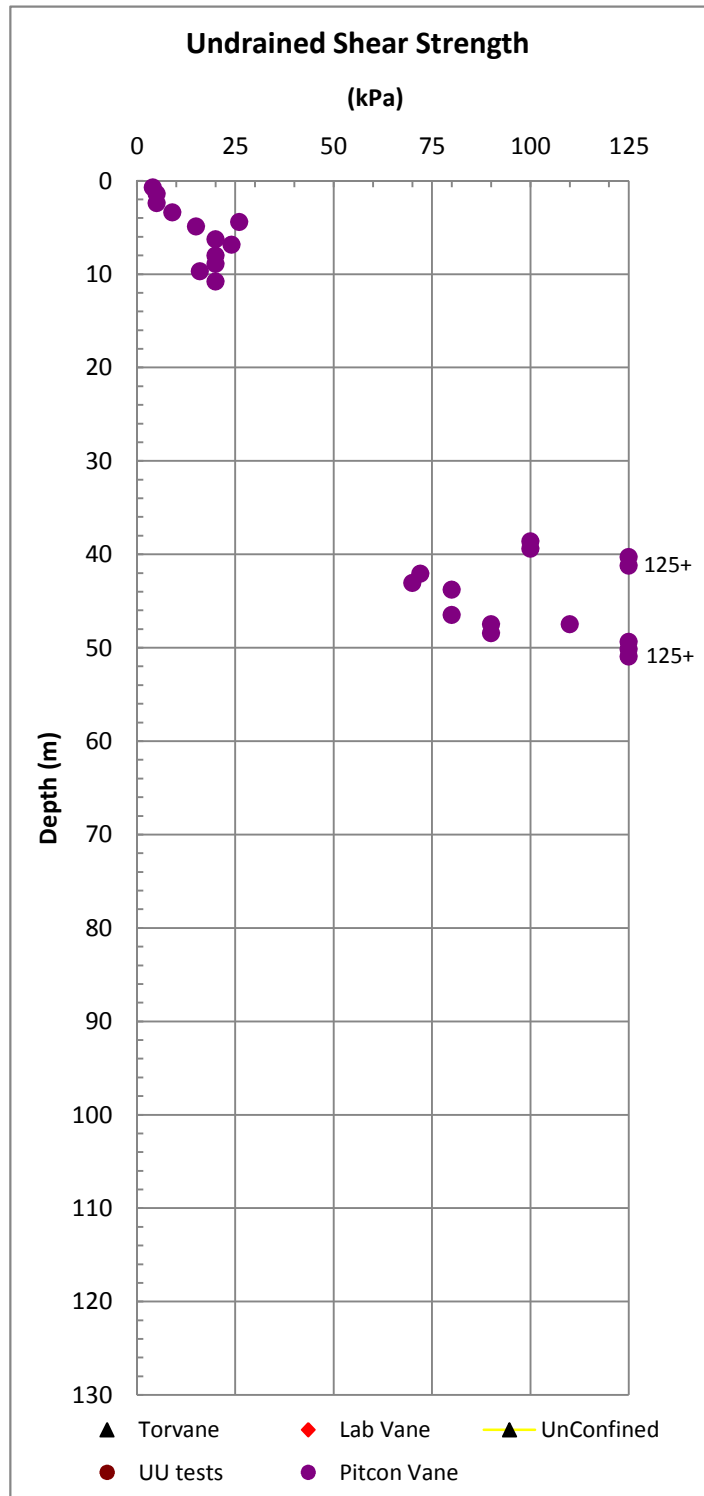
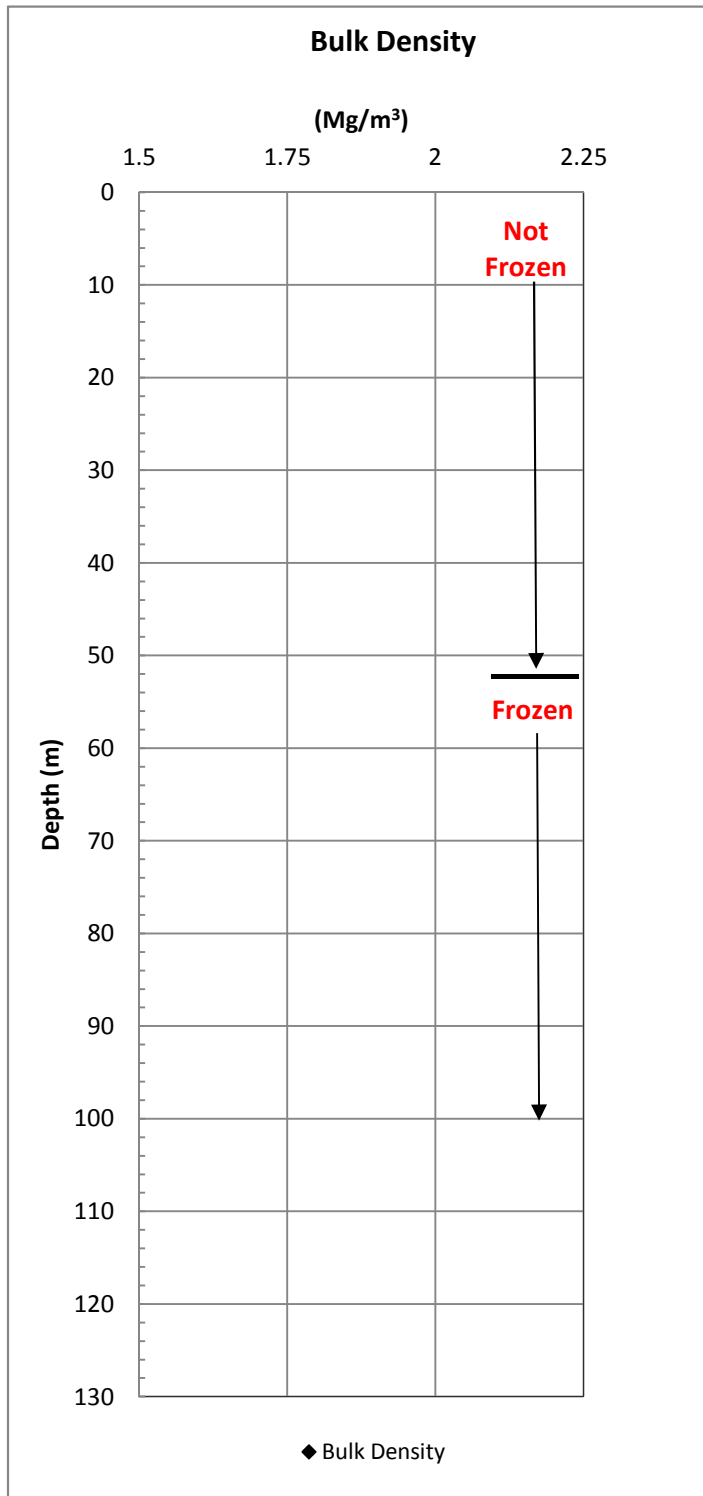


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Figure C.3

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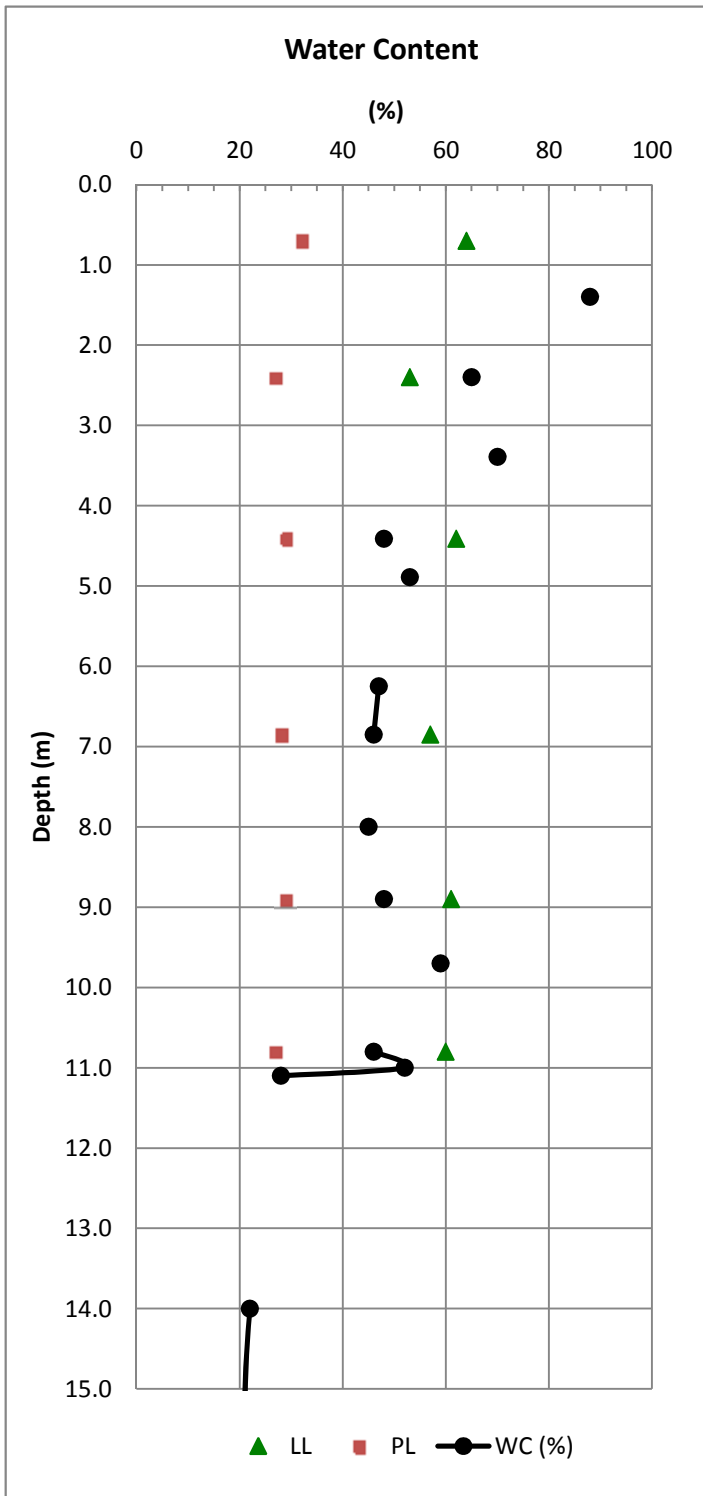
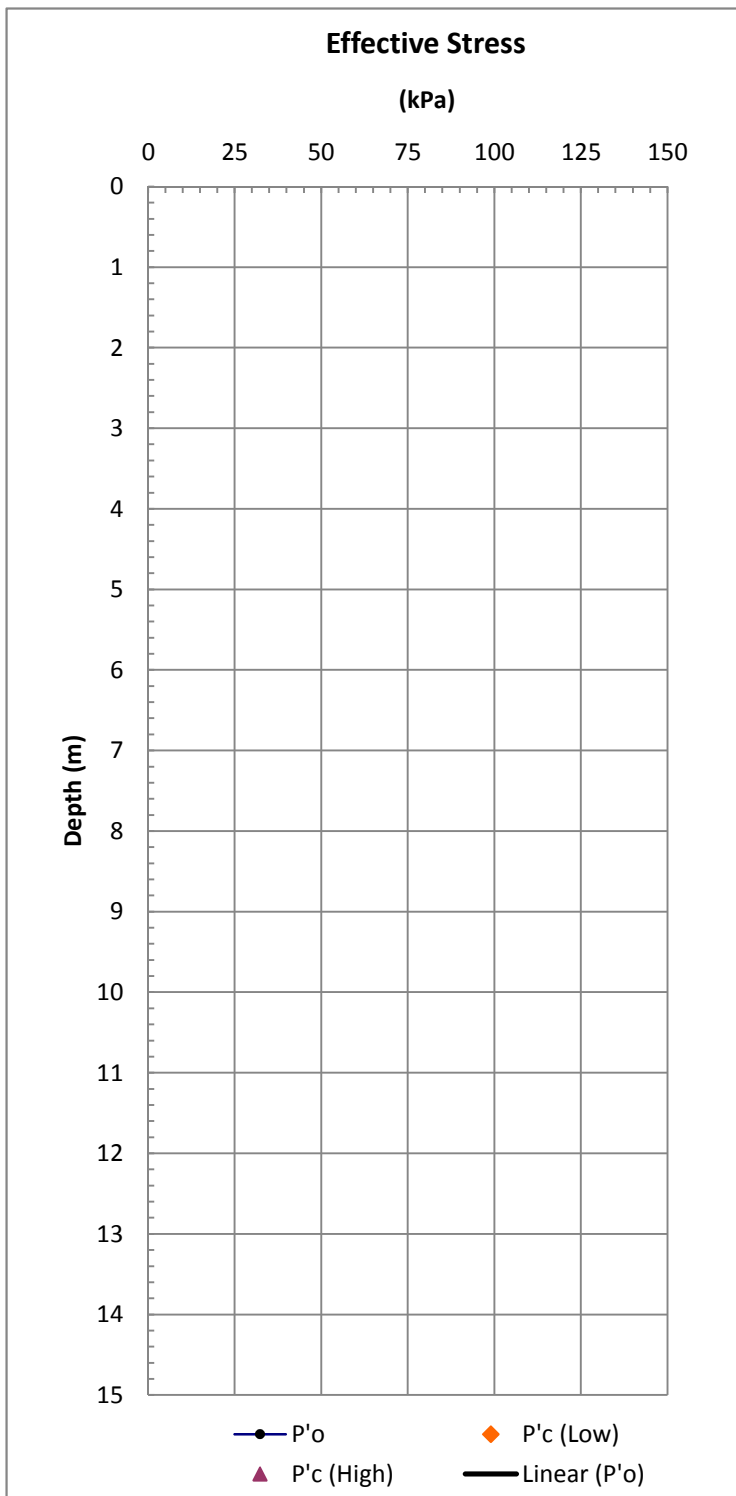
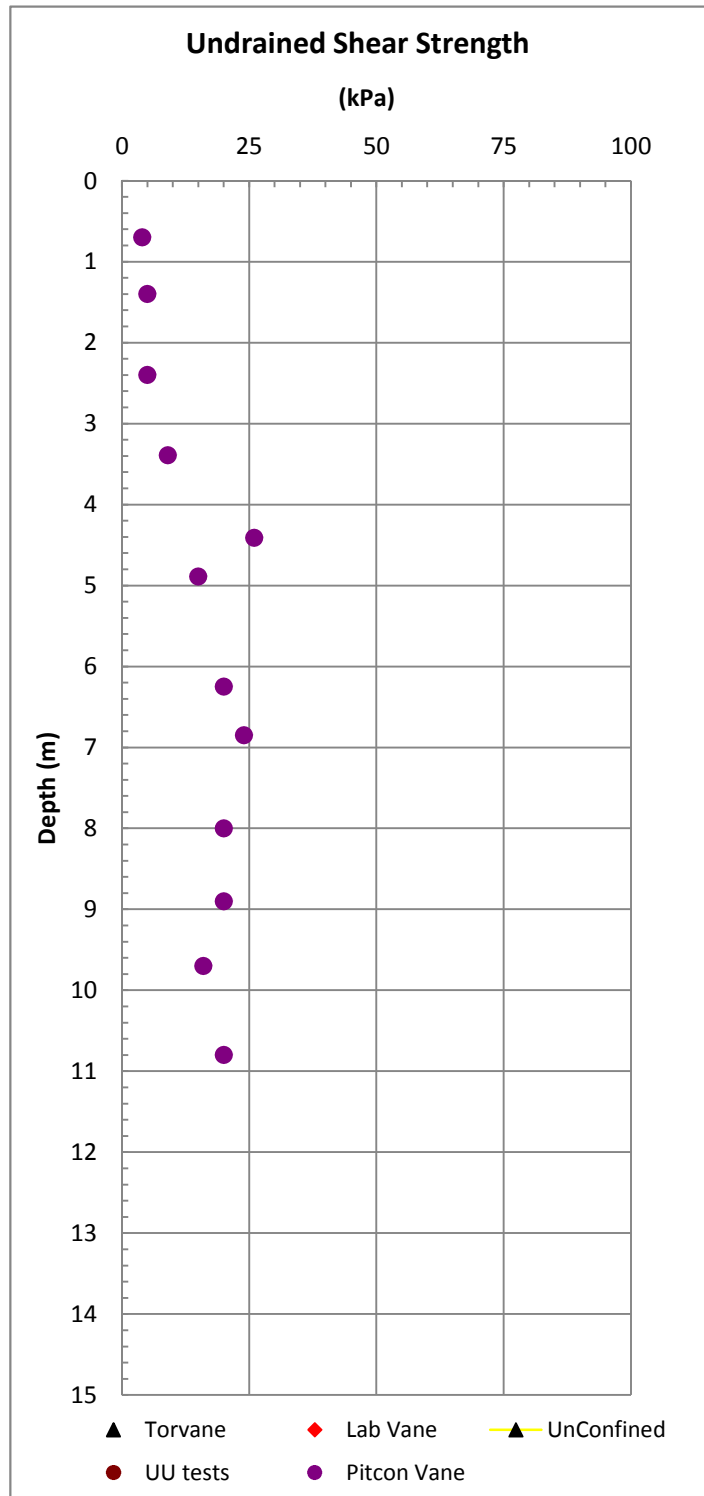
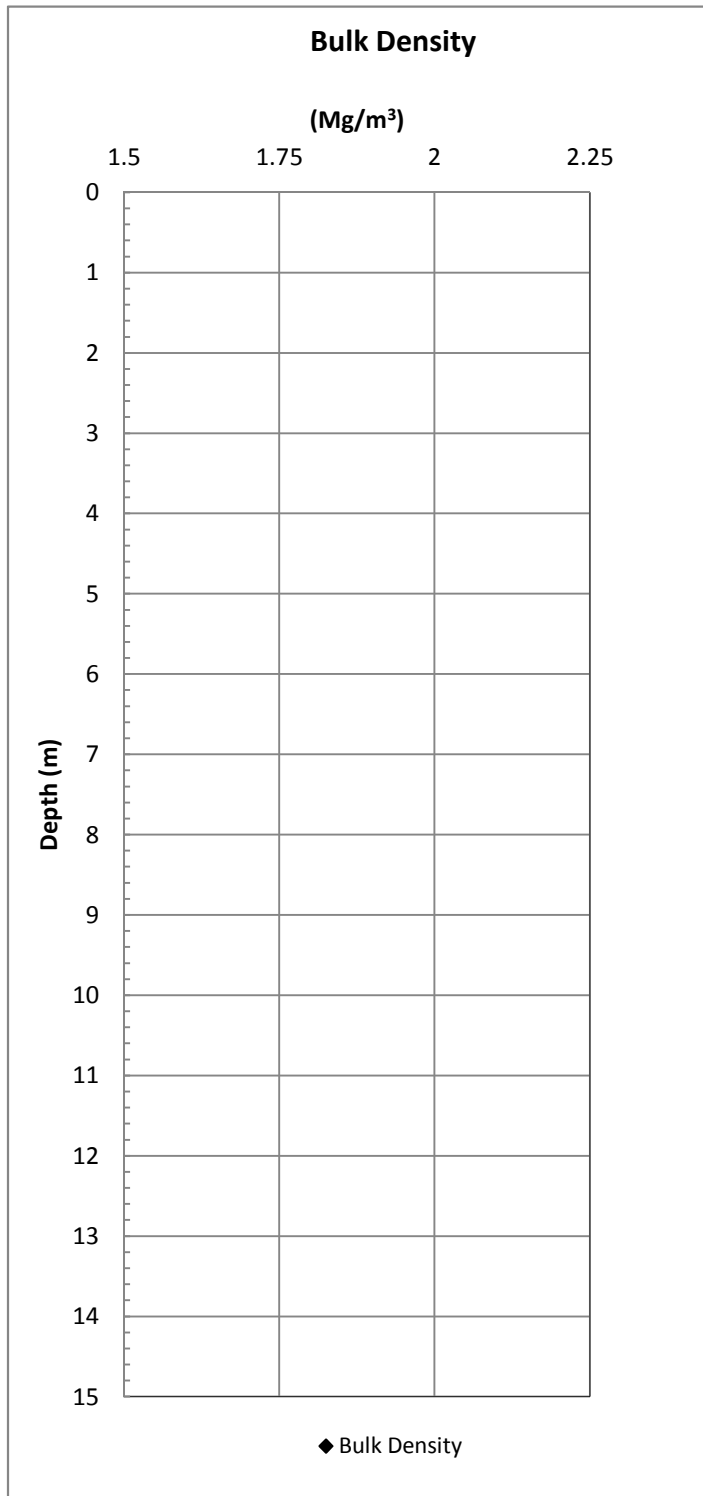


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Figure C.3

10033 Beaufort Data

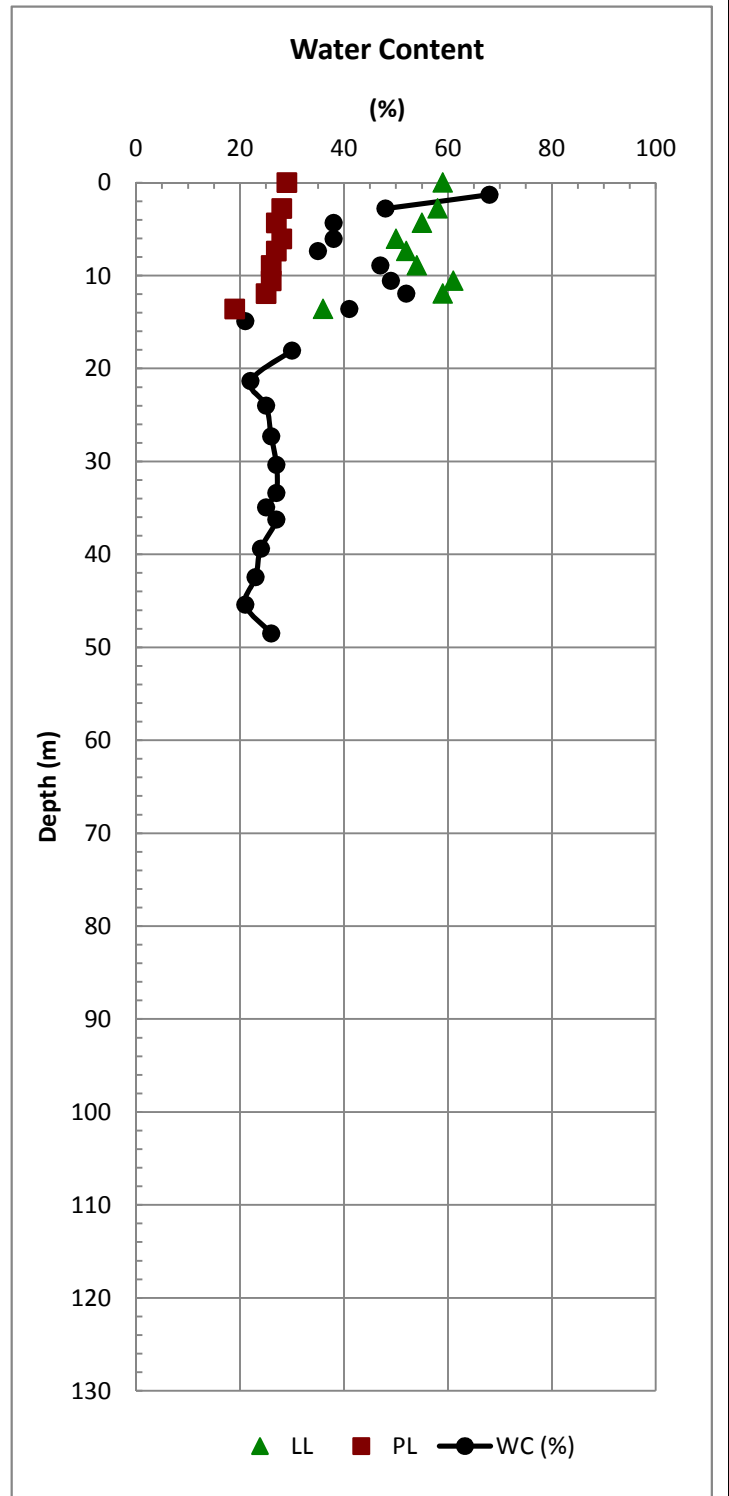
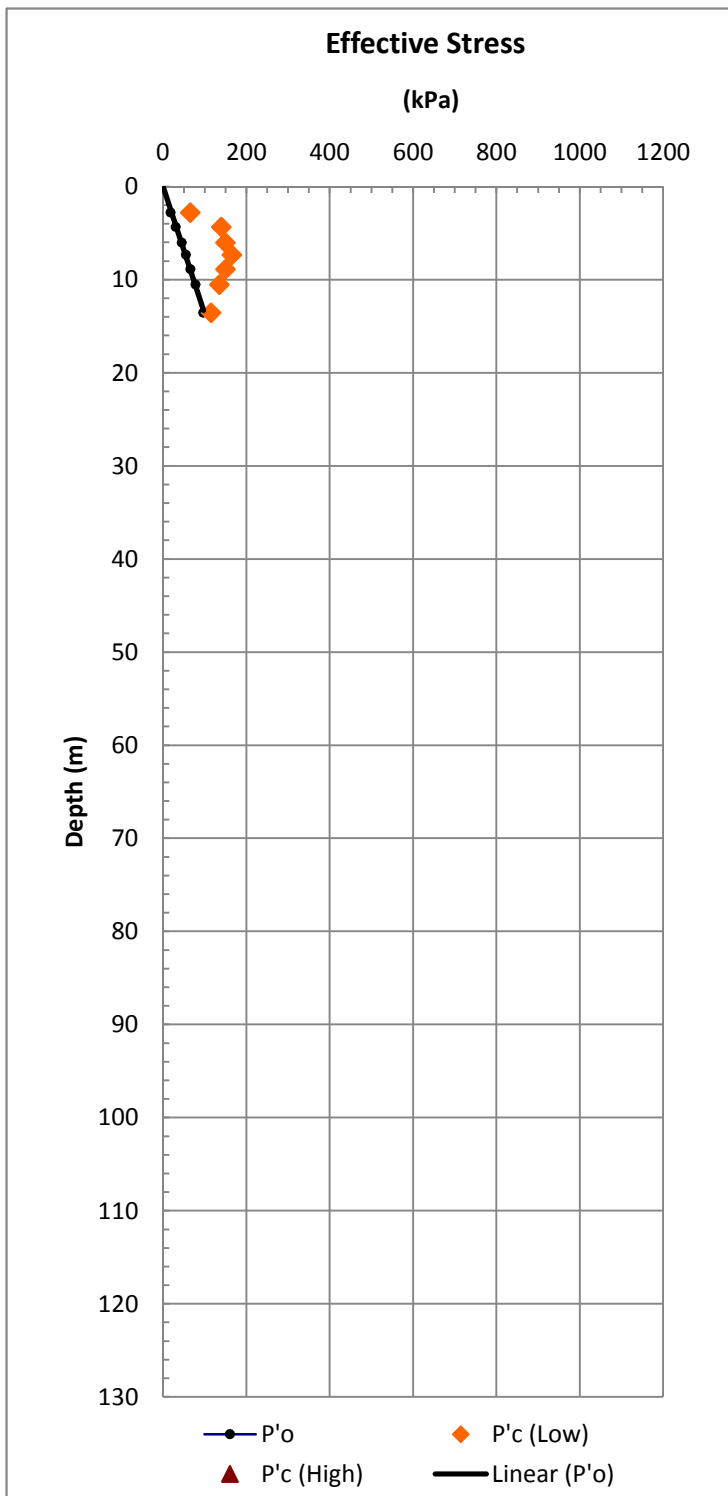
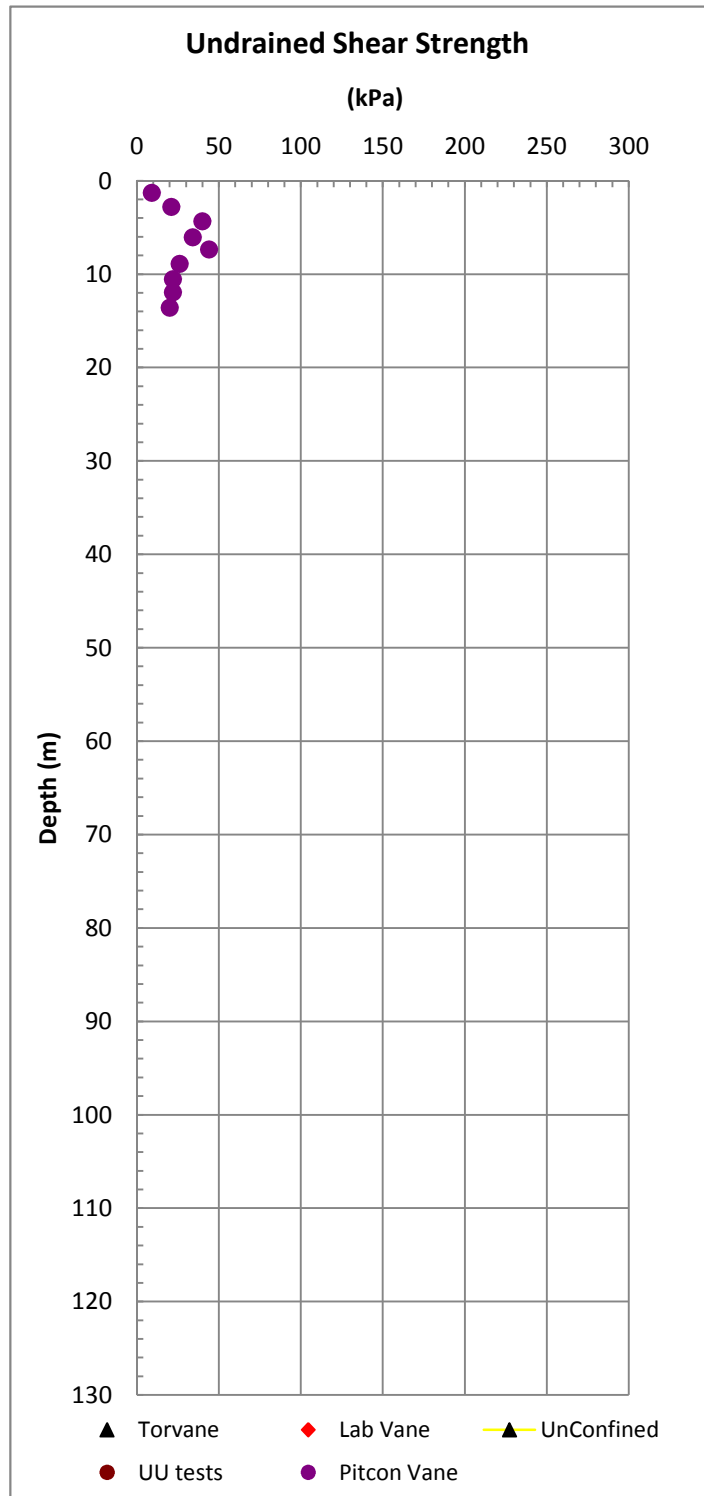
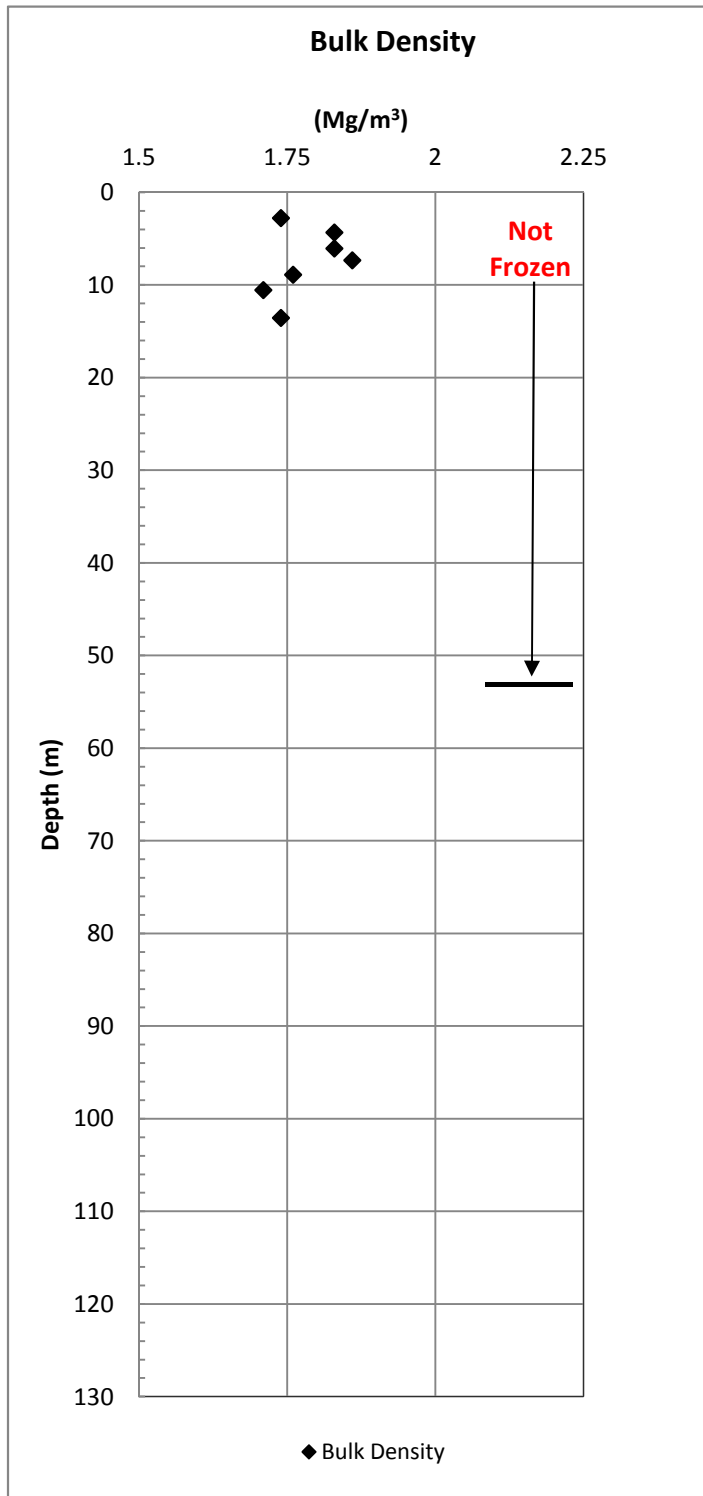


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Figure C.3

10033 Beaufort Data

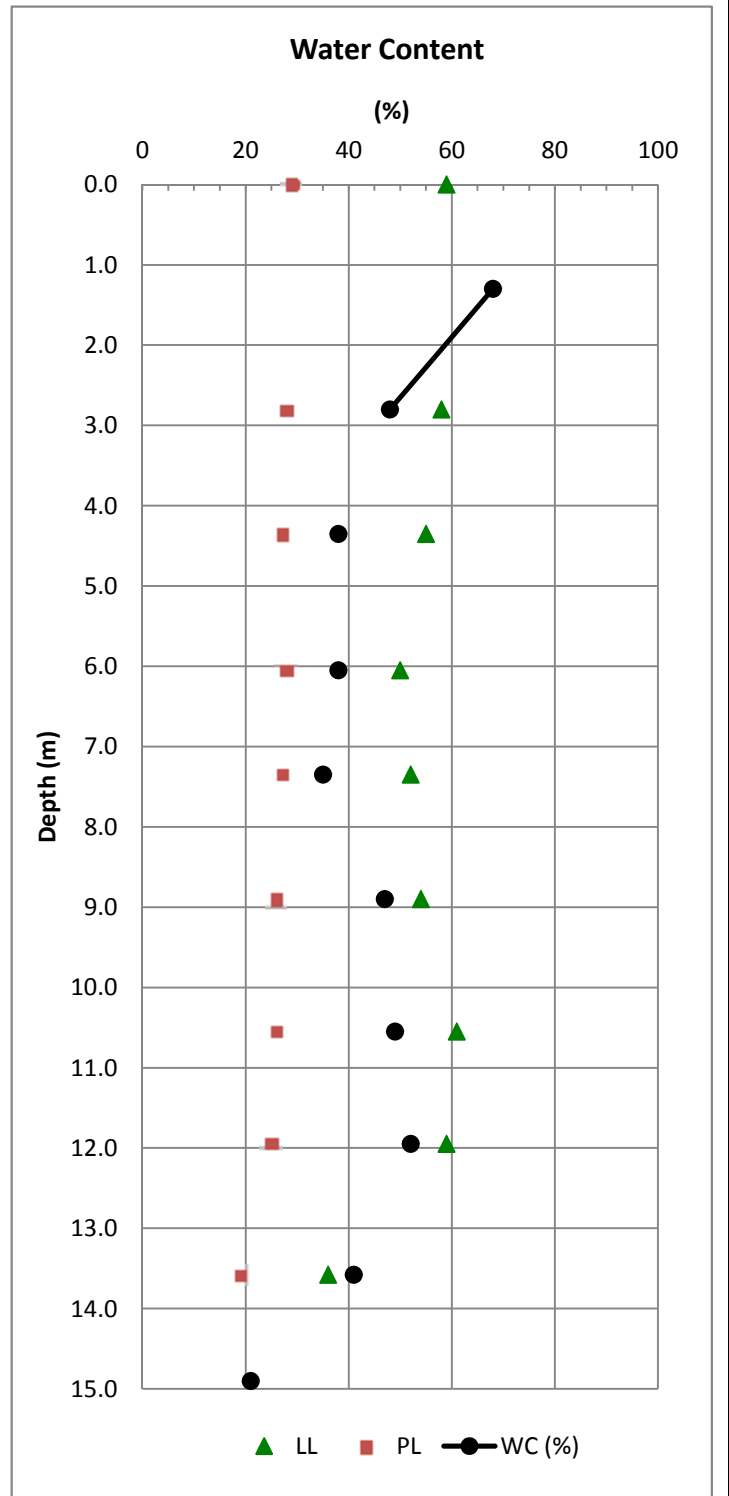
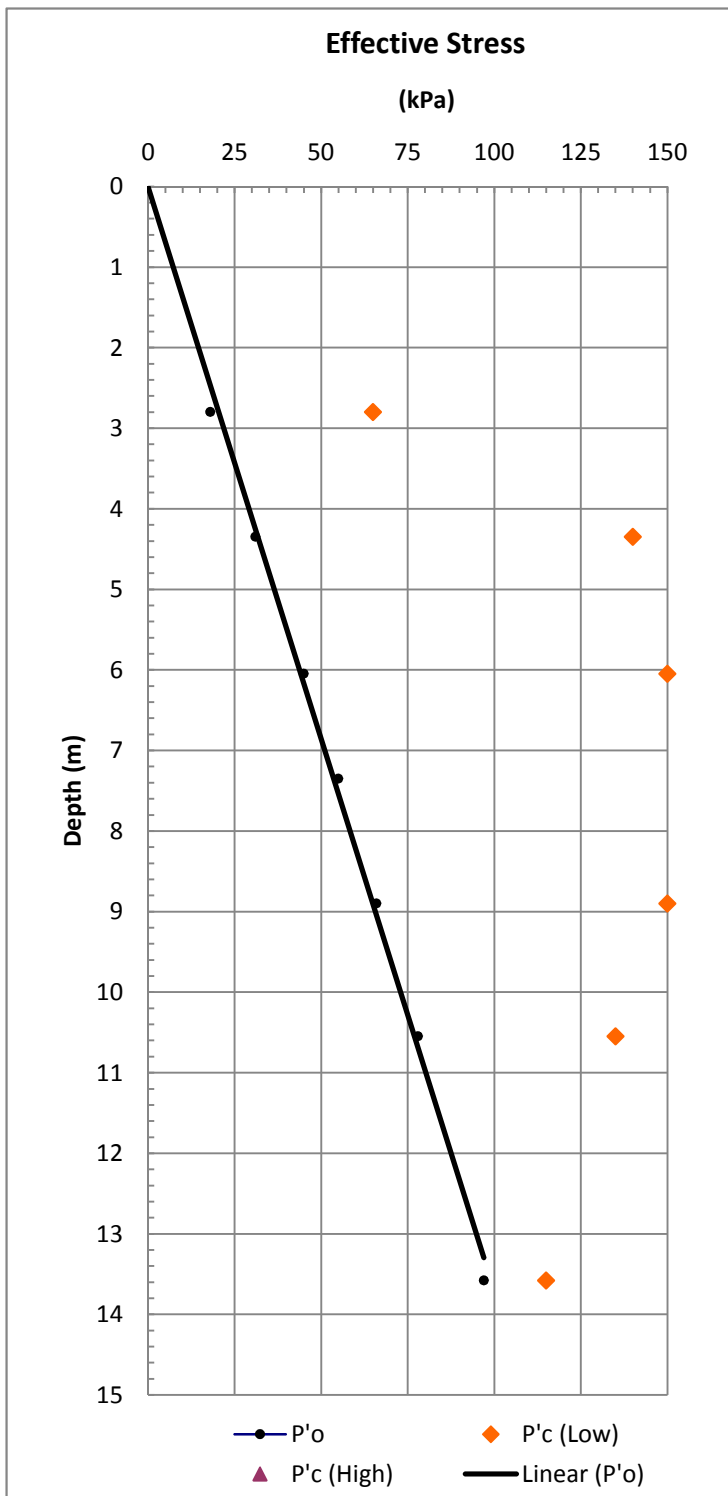
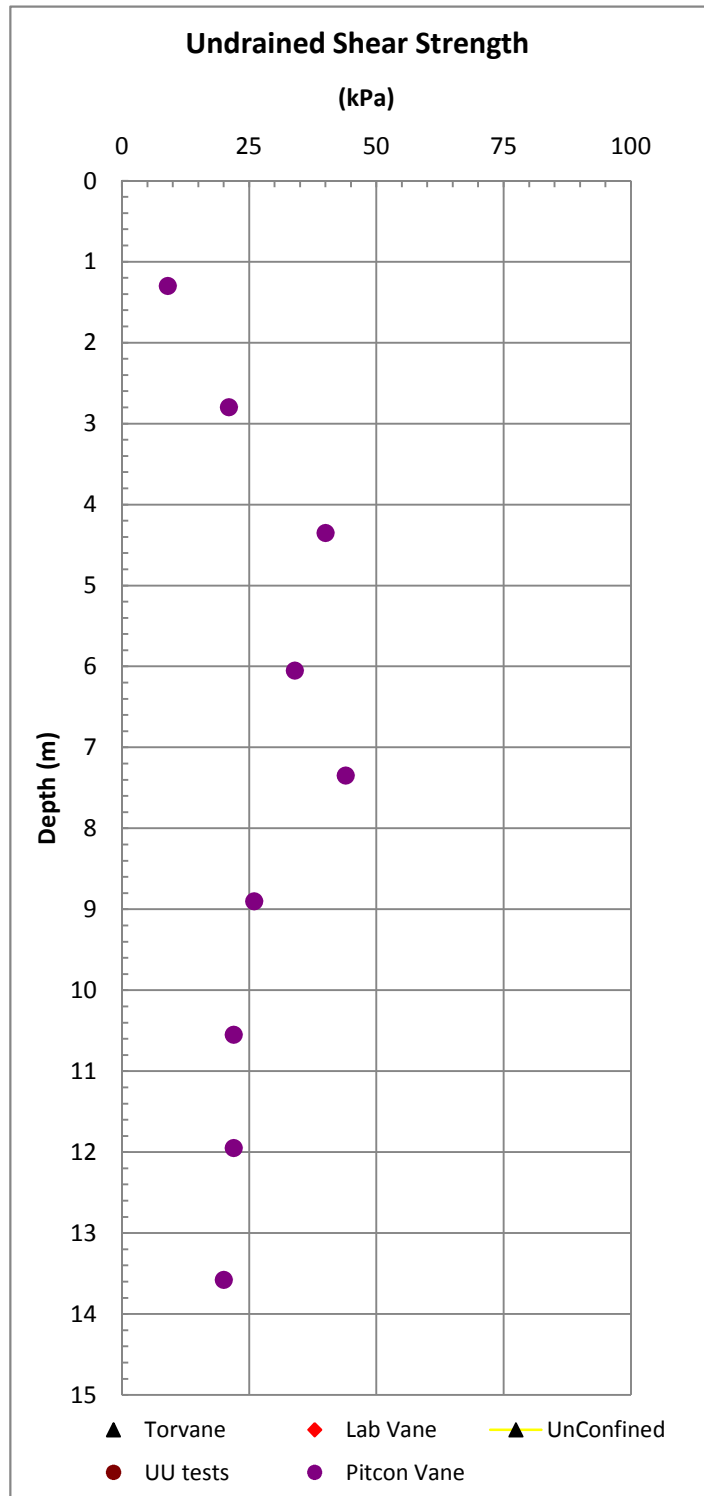
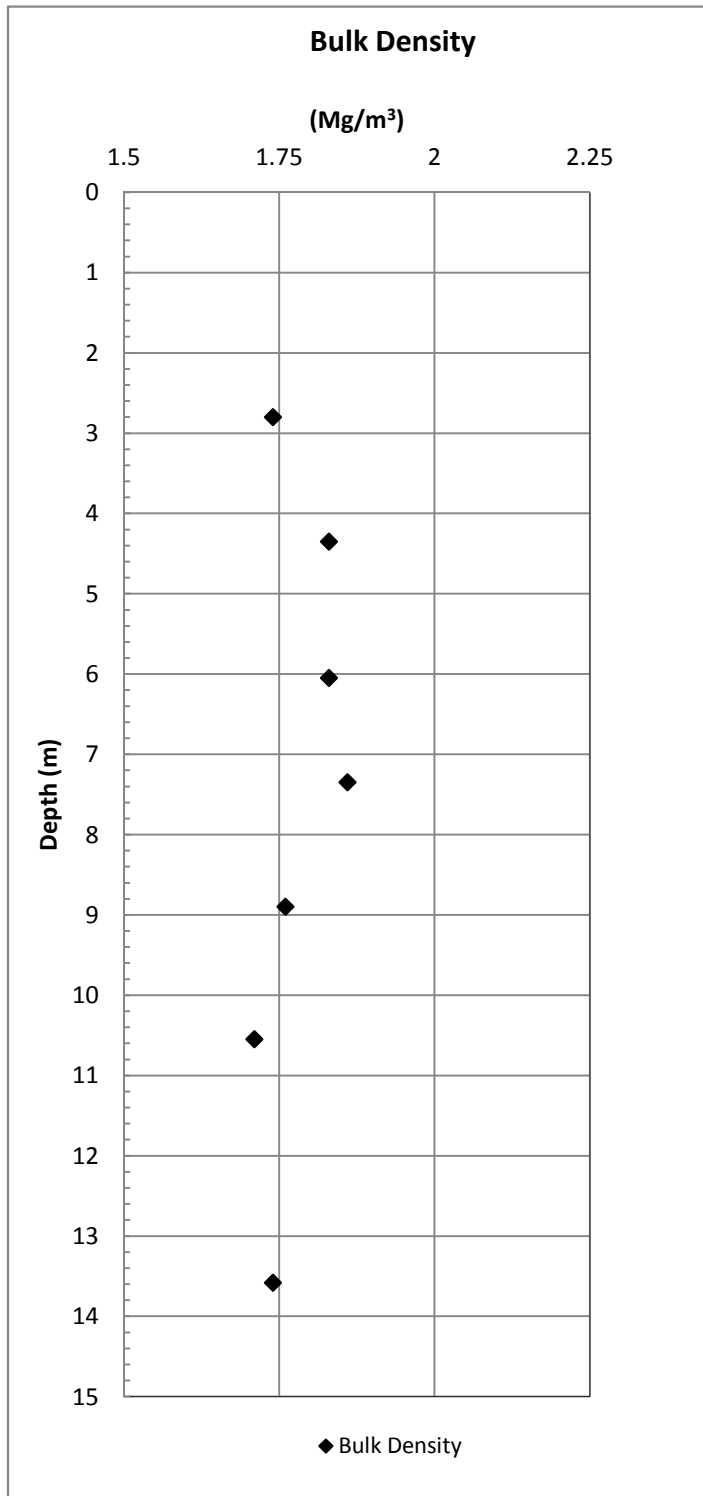


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Figure C.3

10033 Beaufort Data

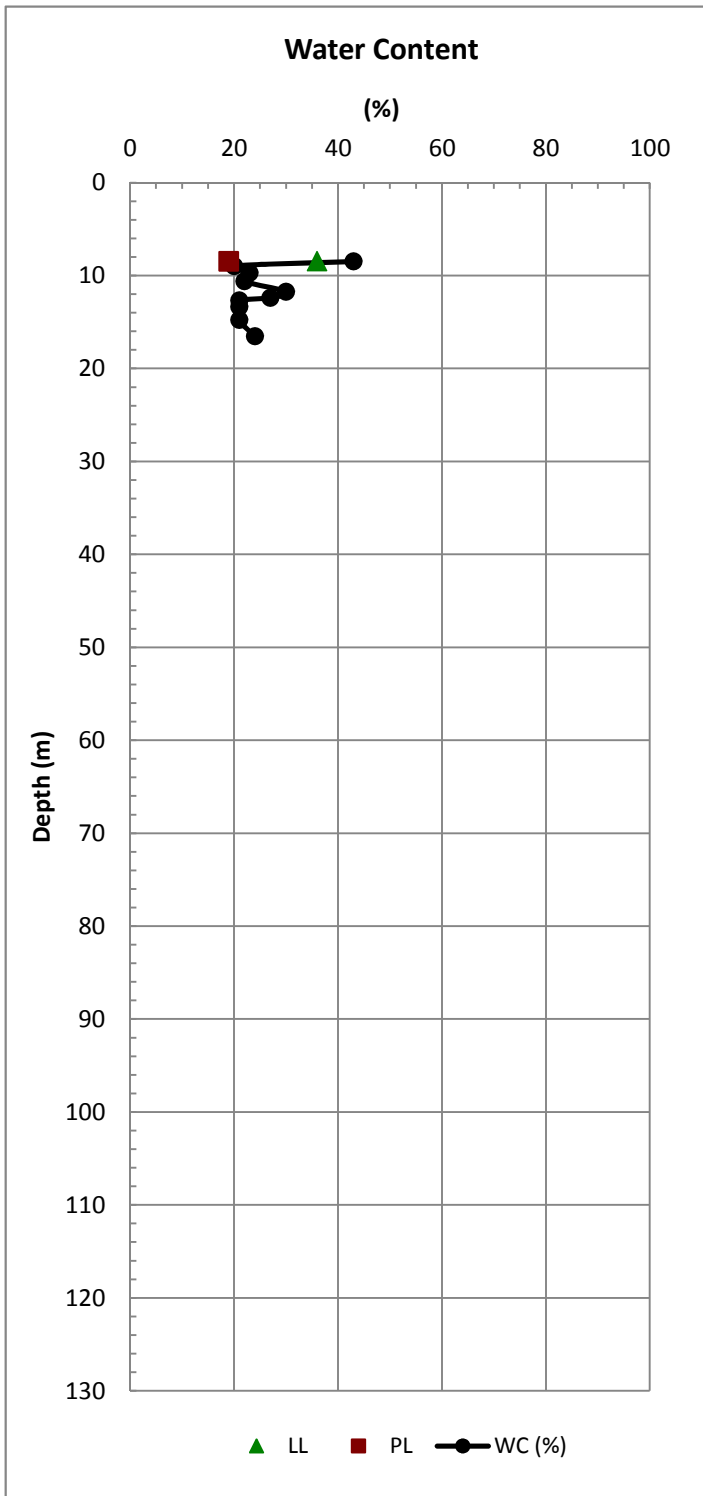
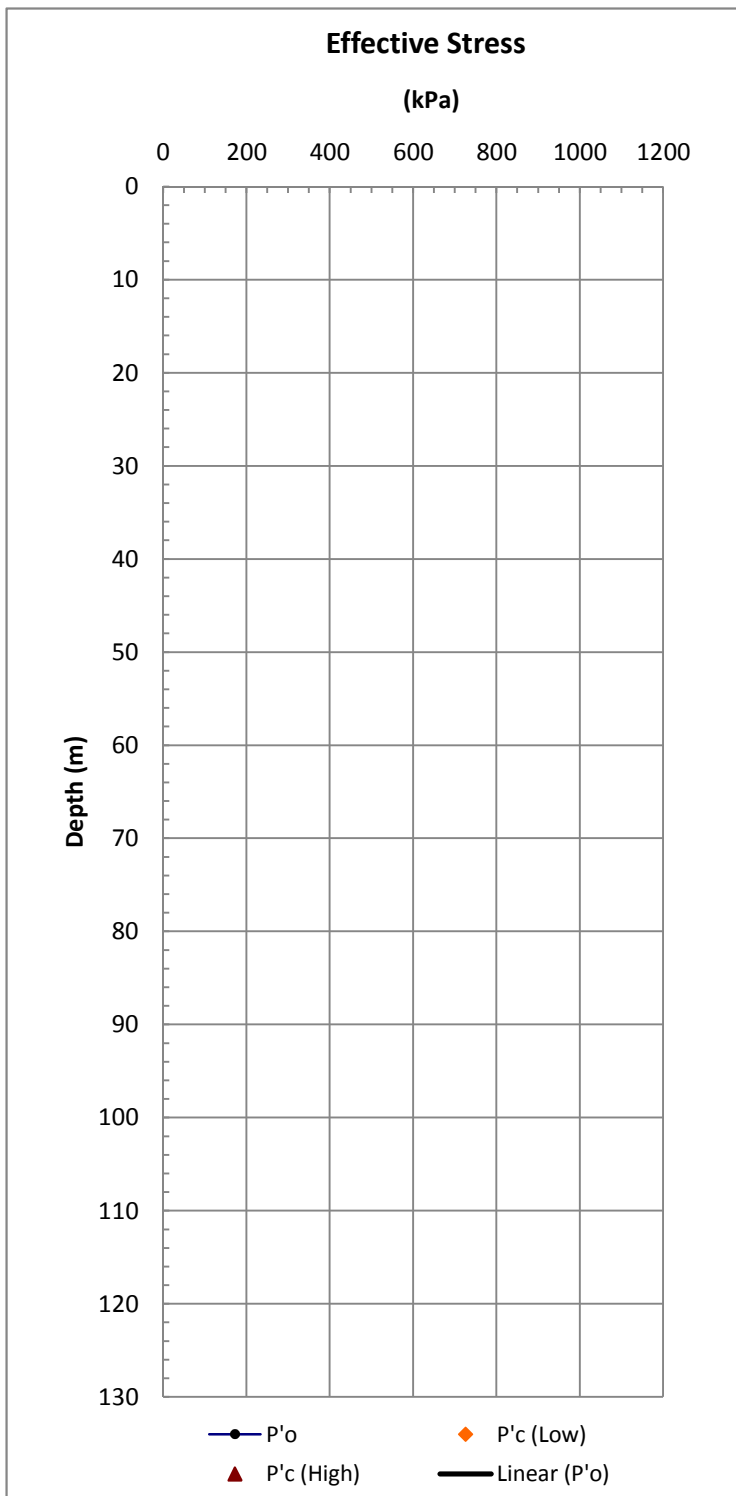
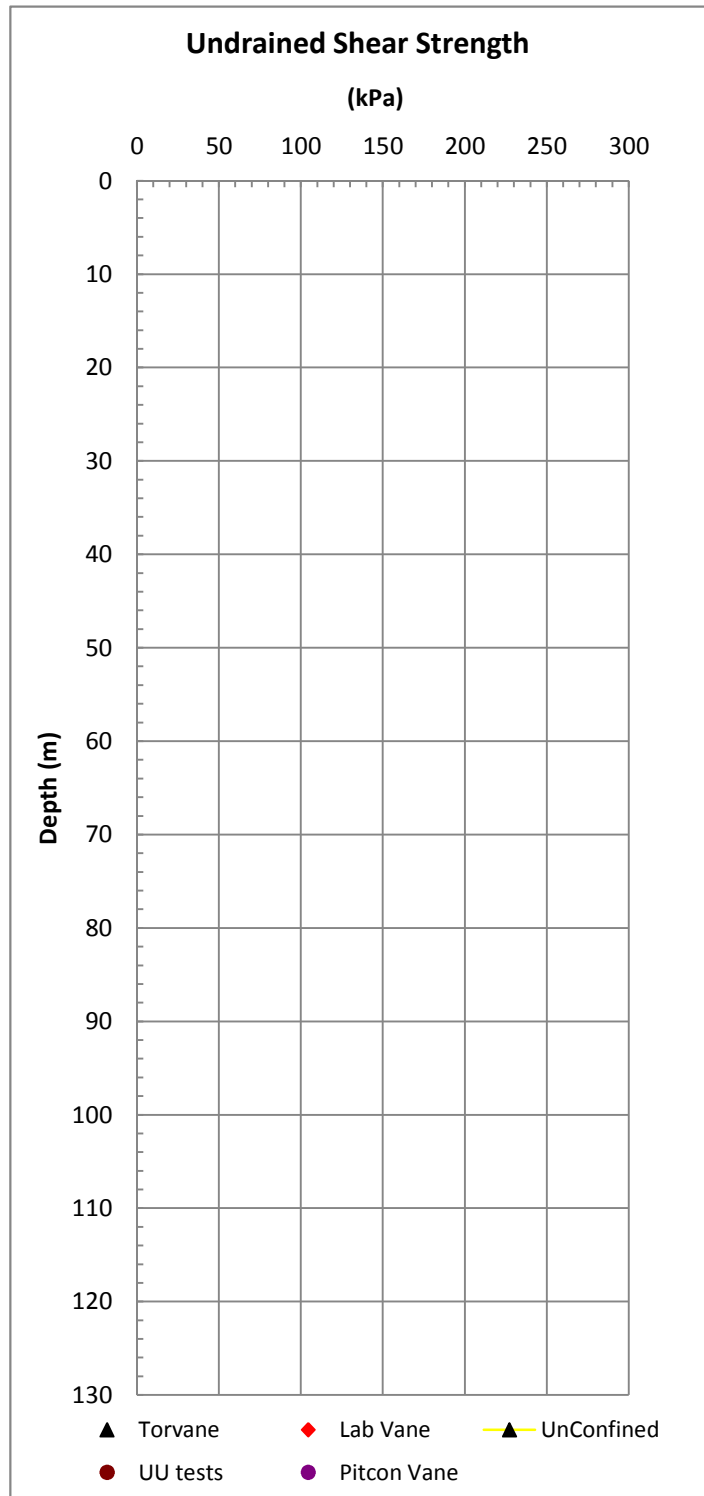
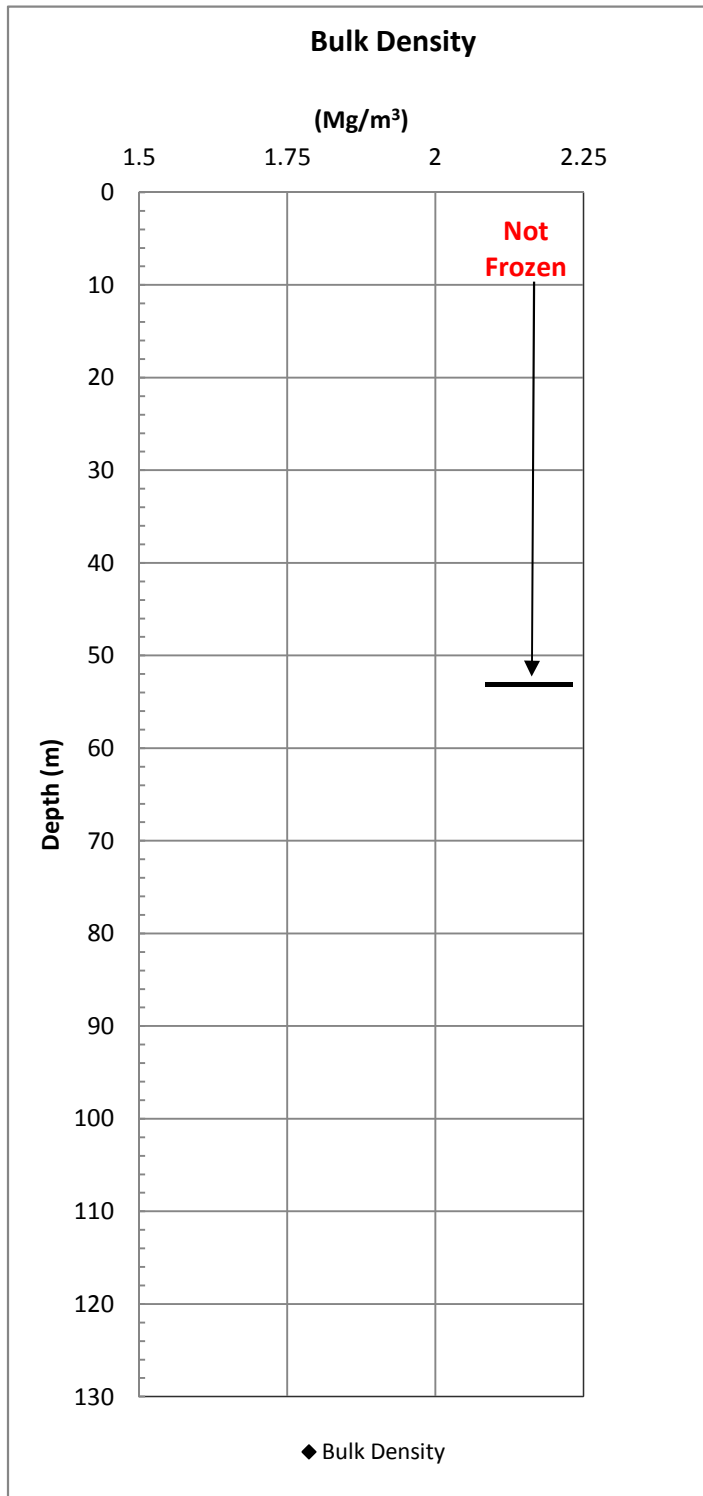


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Figure C.3

10033 Beaufort Data

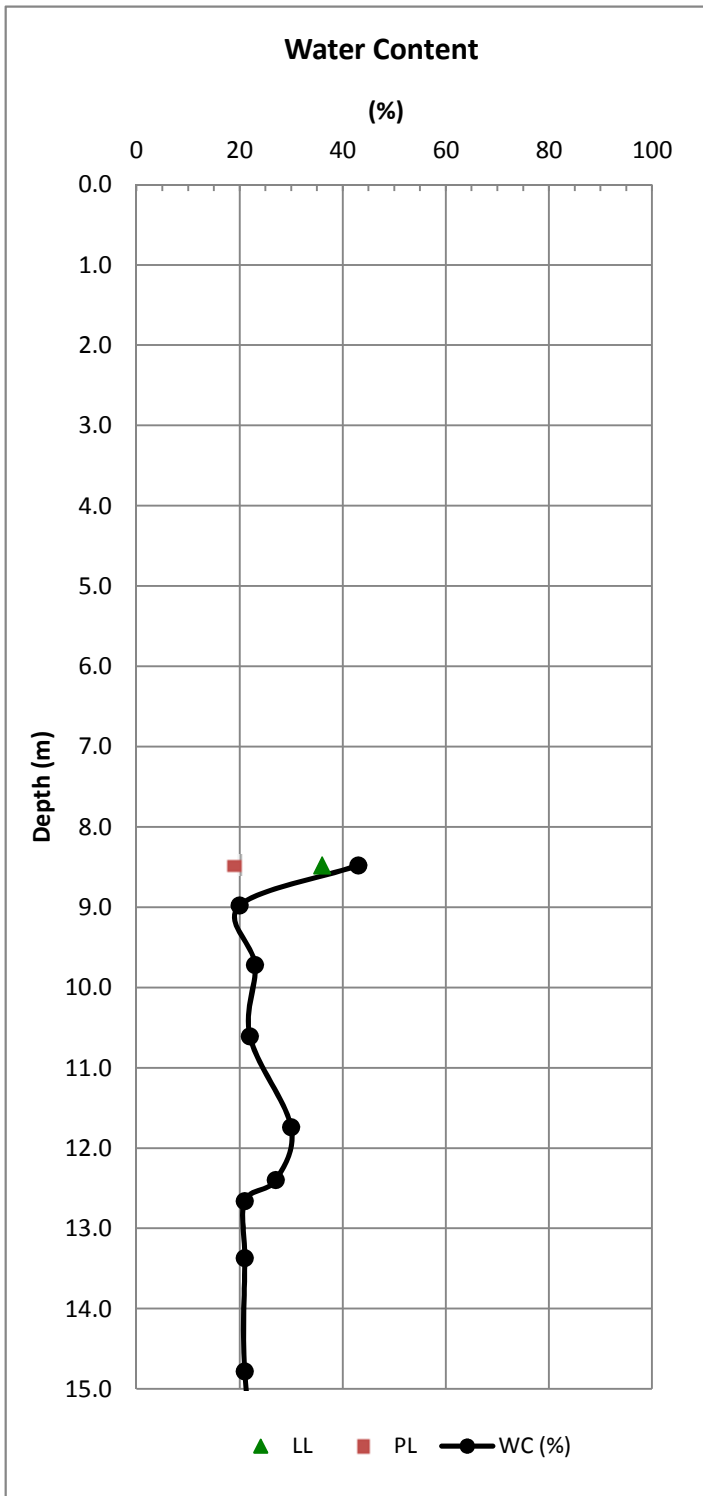
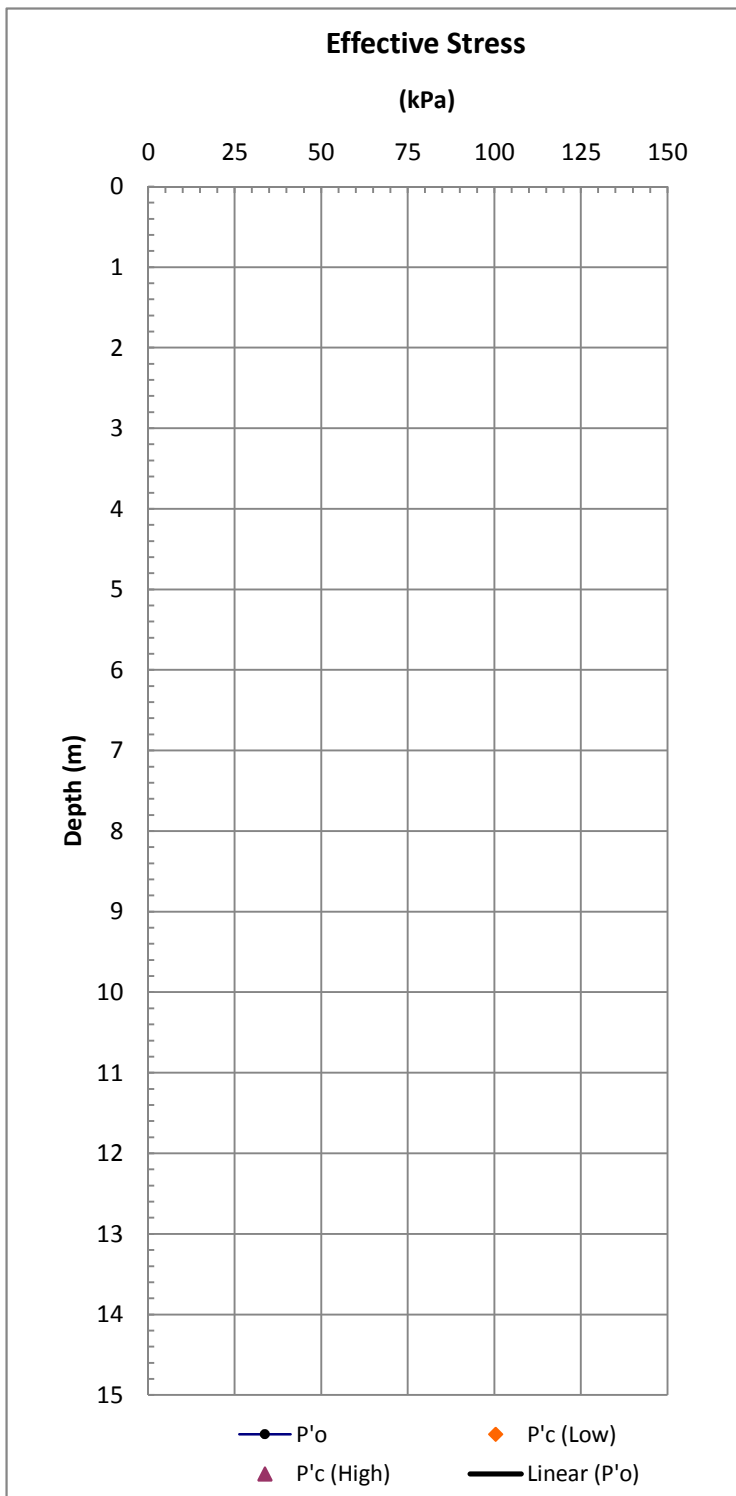
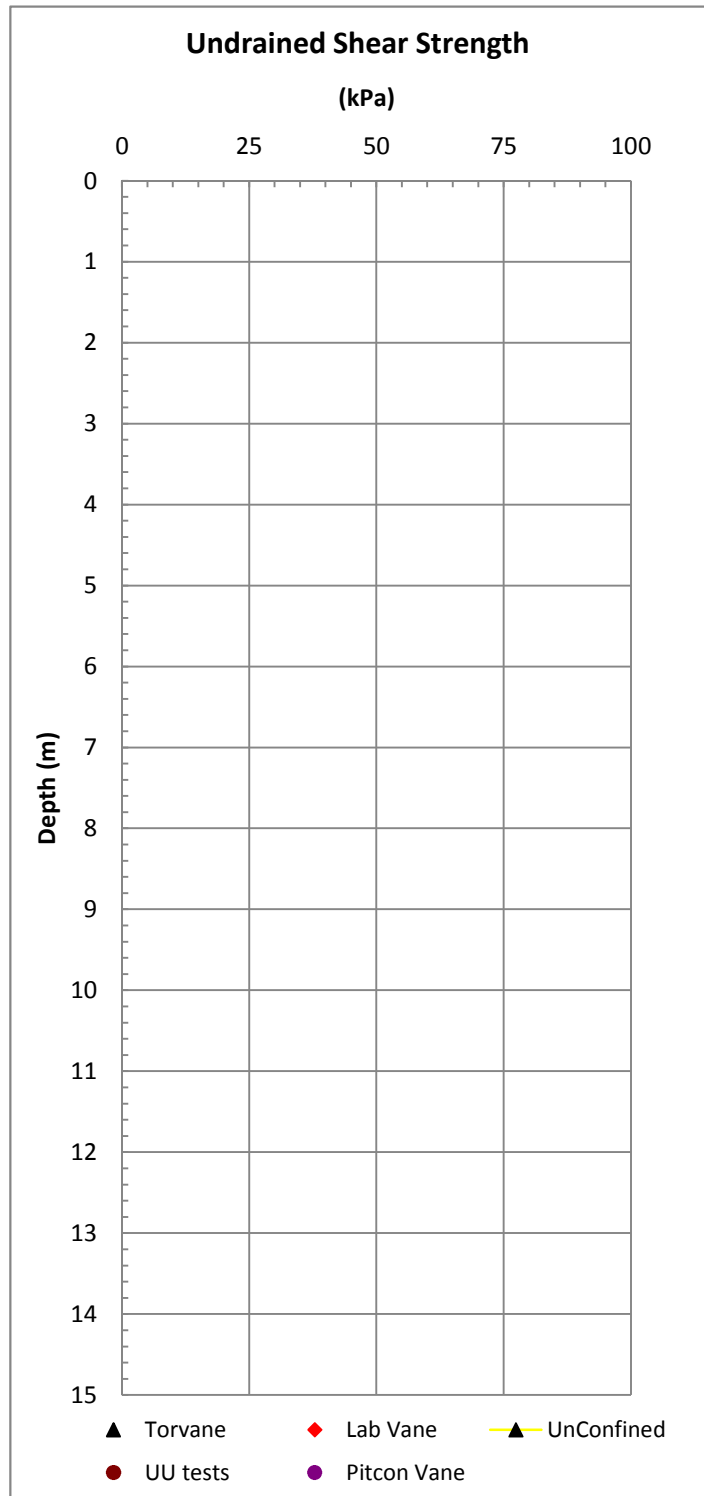
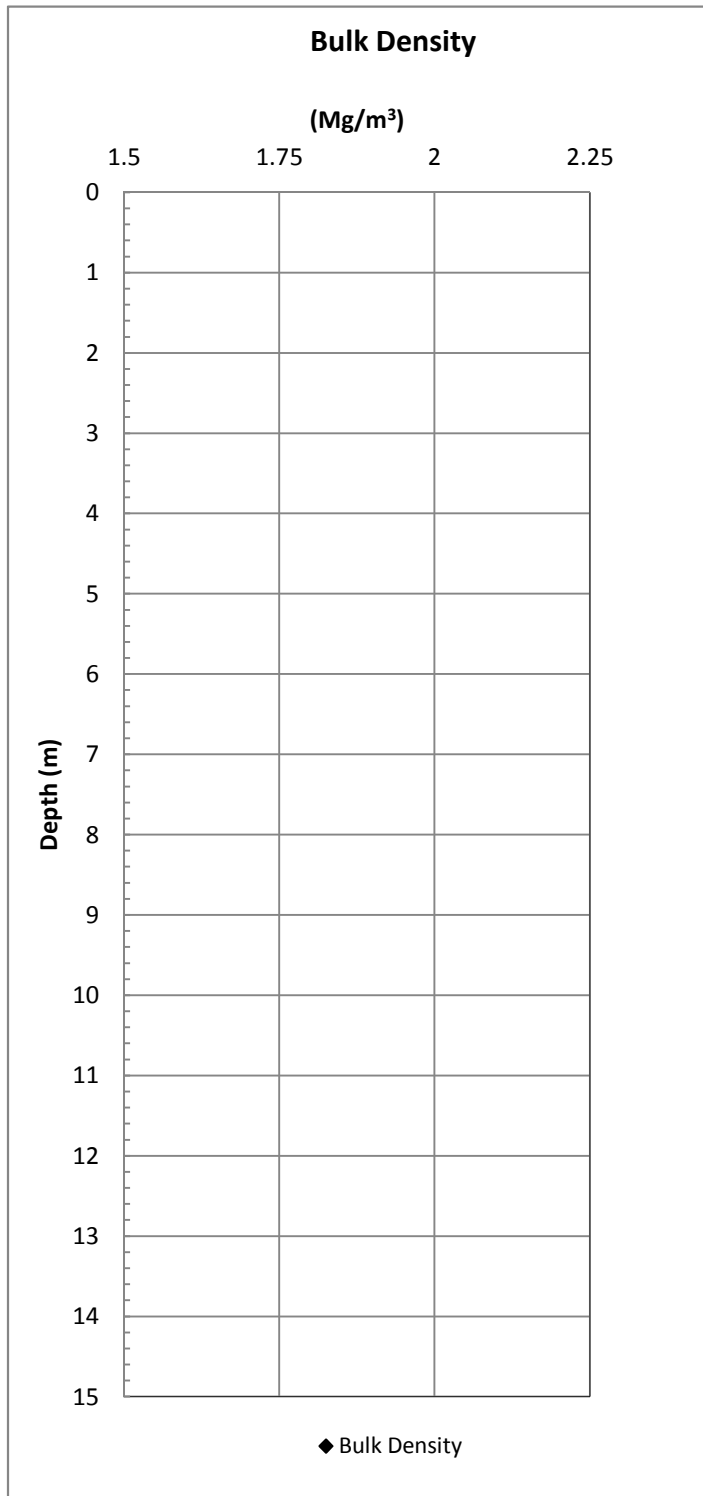


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Figure C.3

10033 Beaufort Data

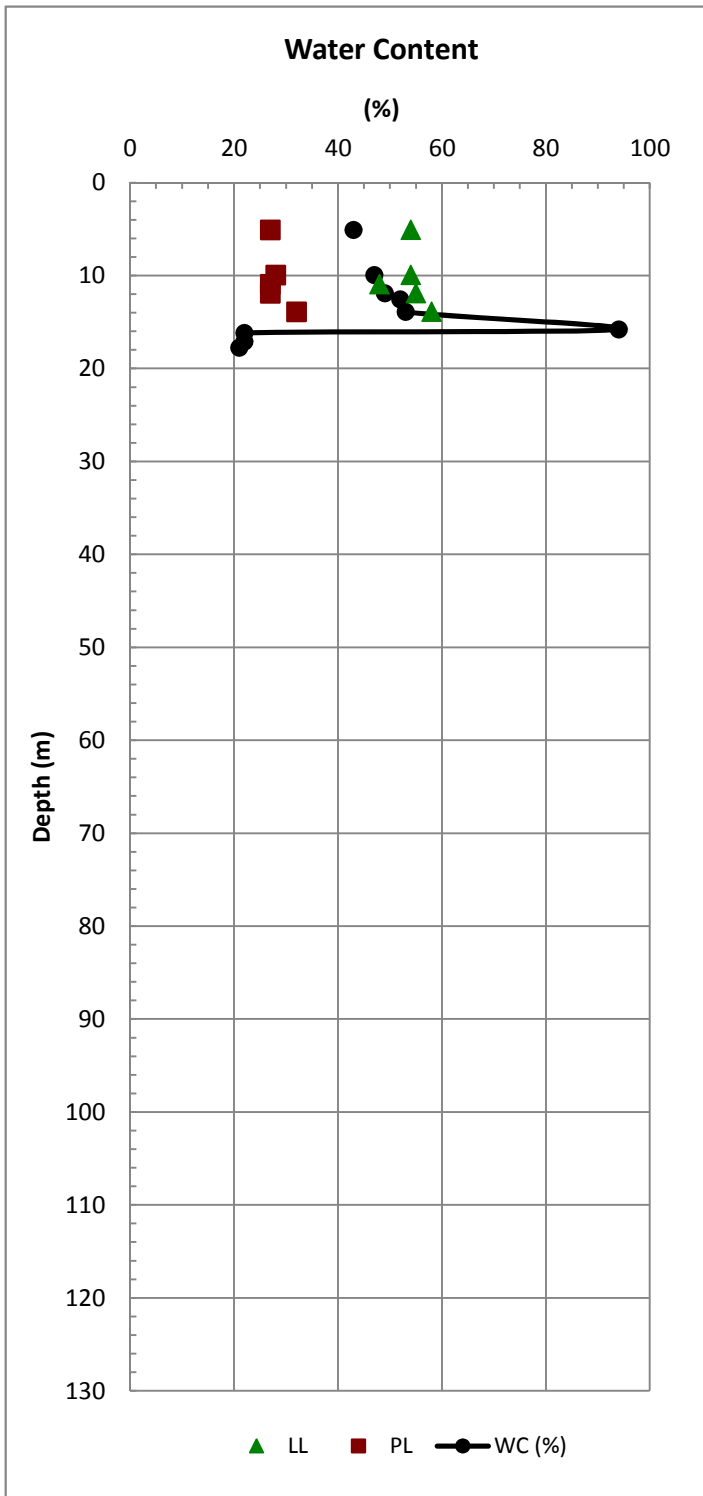
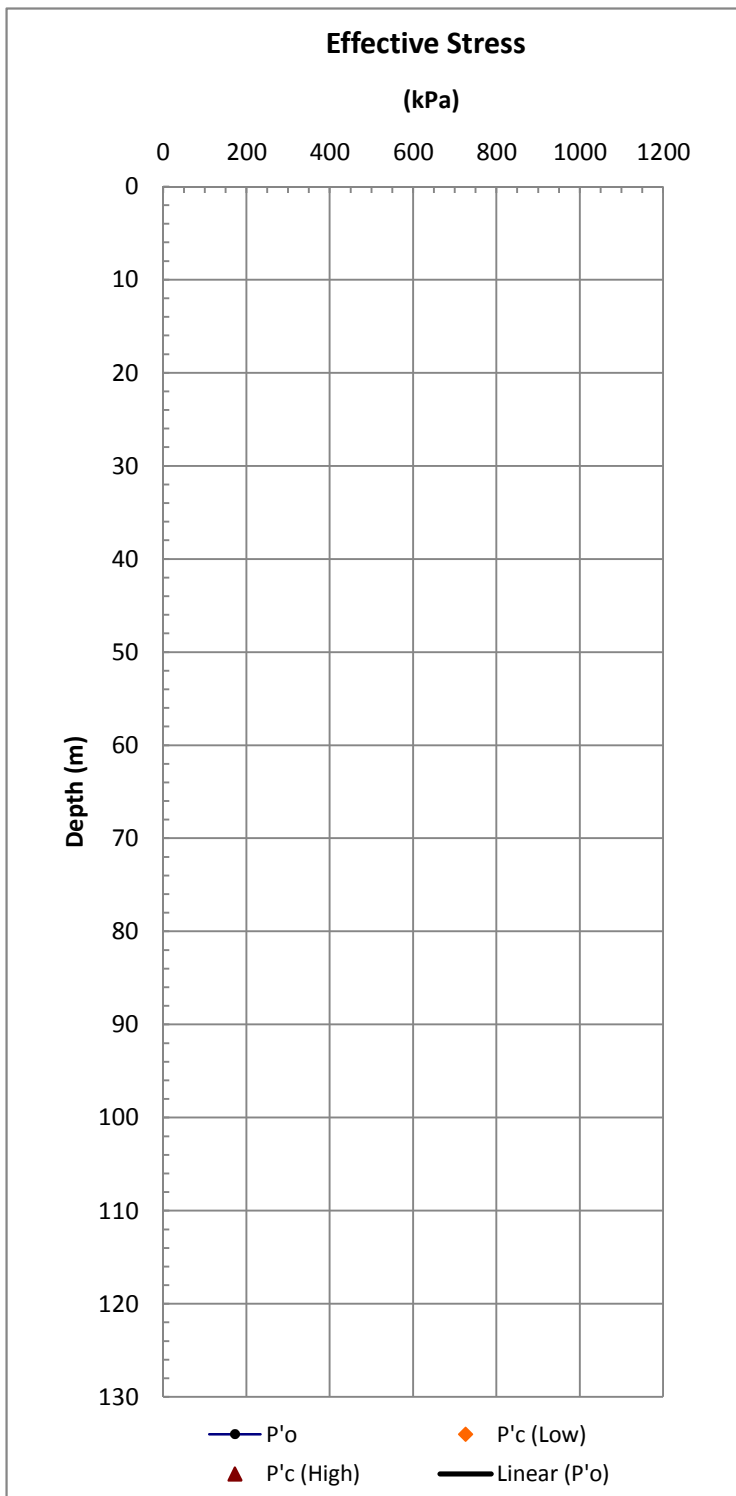
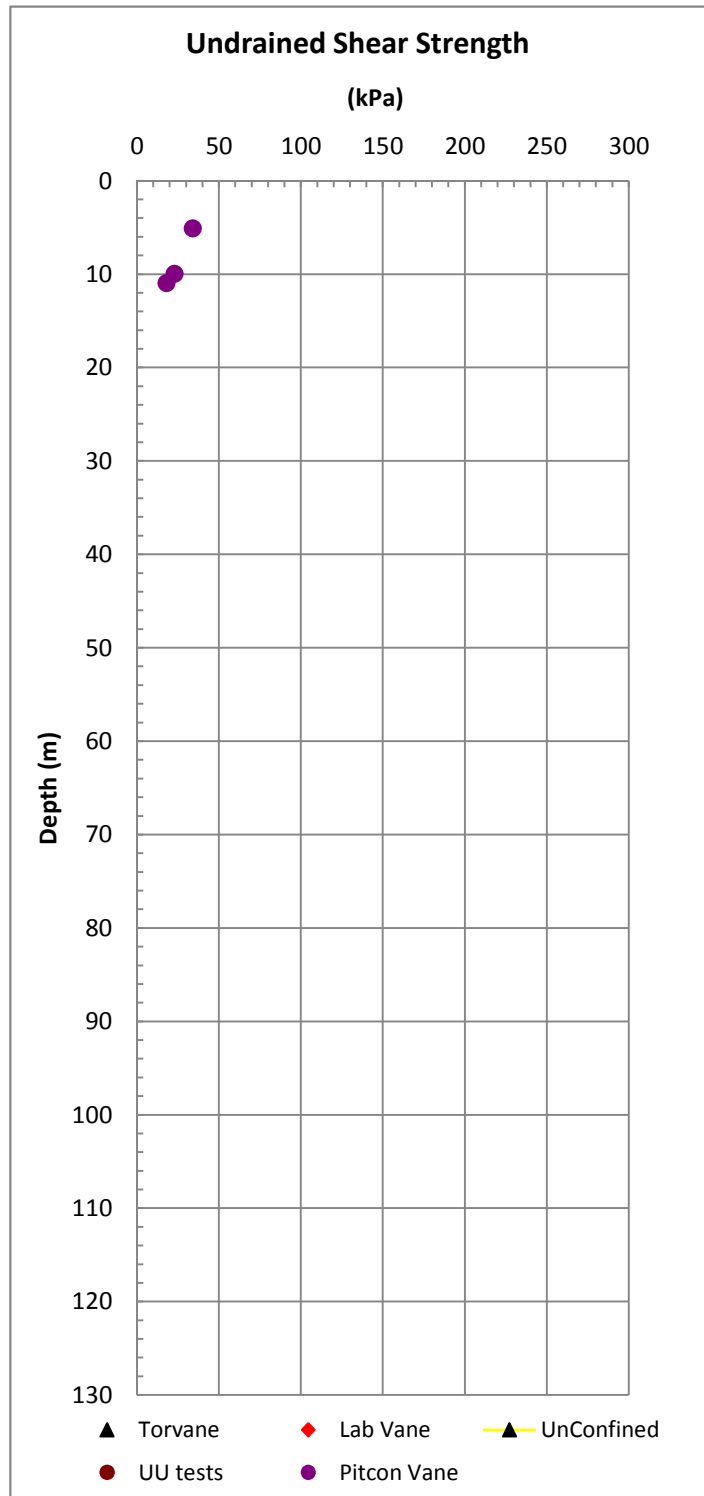
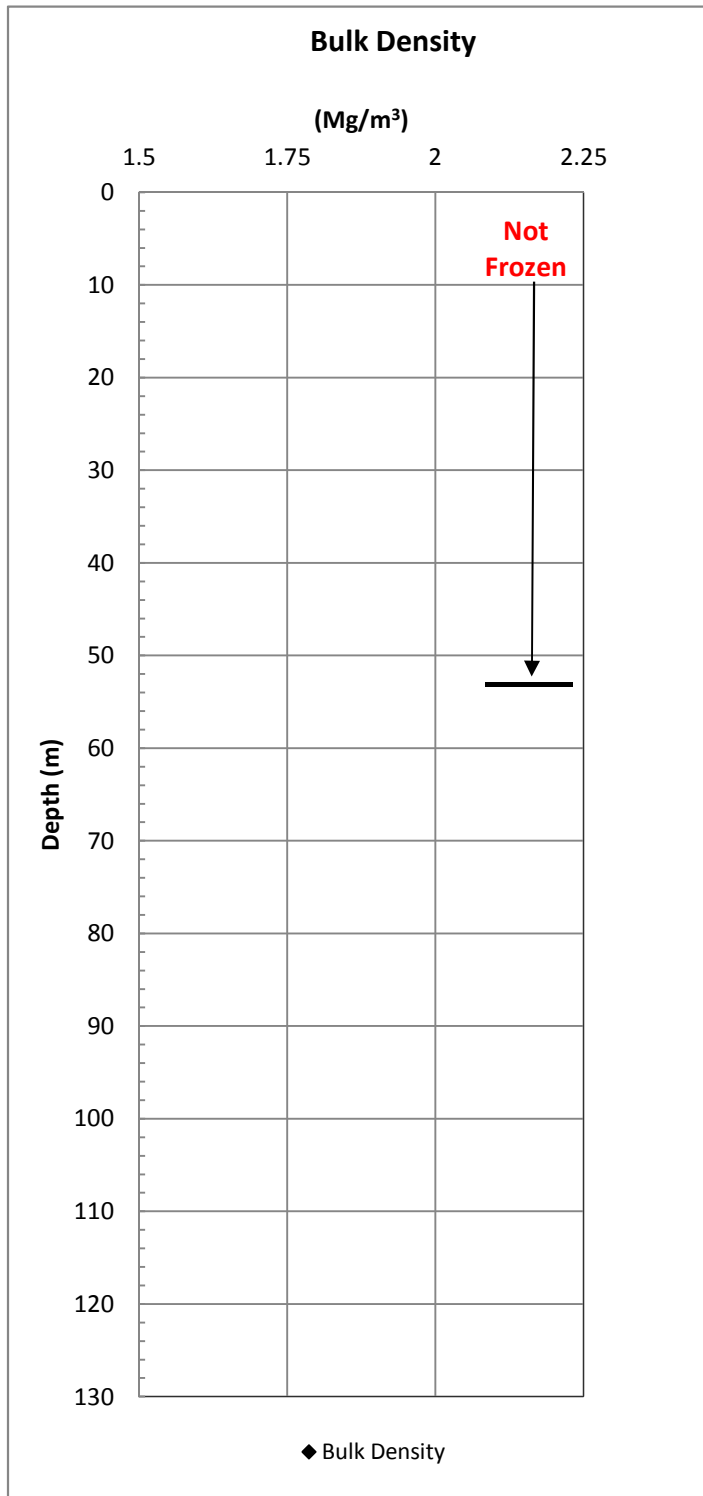


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Figure C.3

10033 Beaufort Data

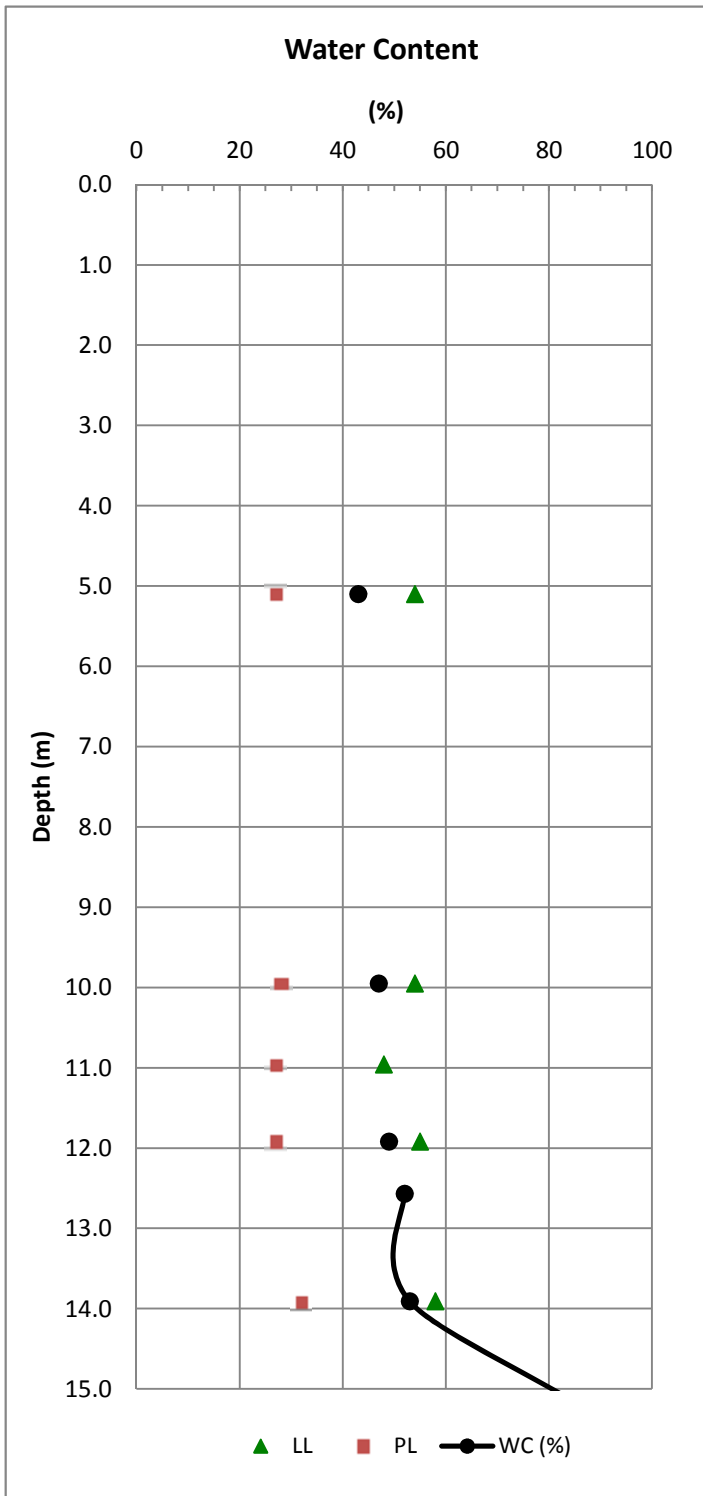
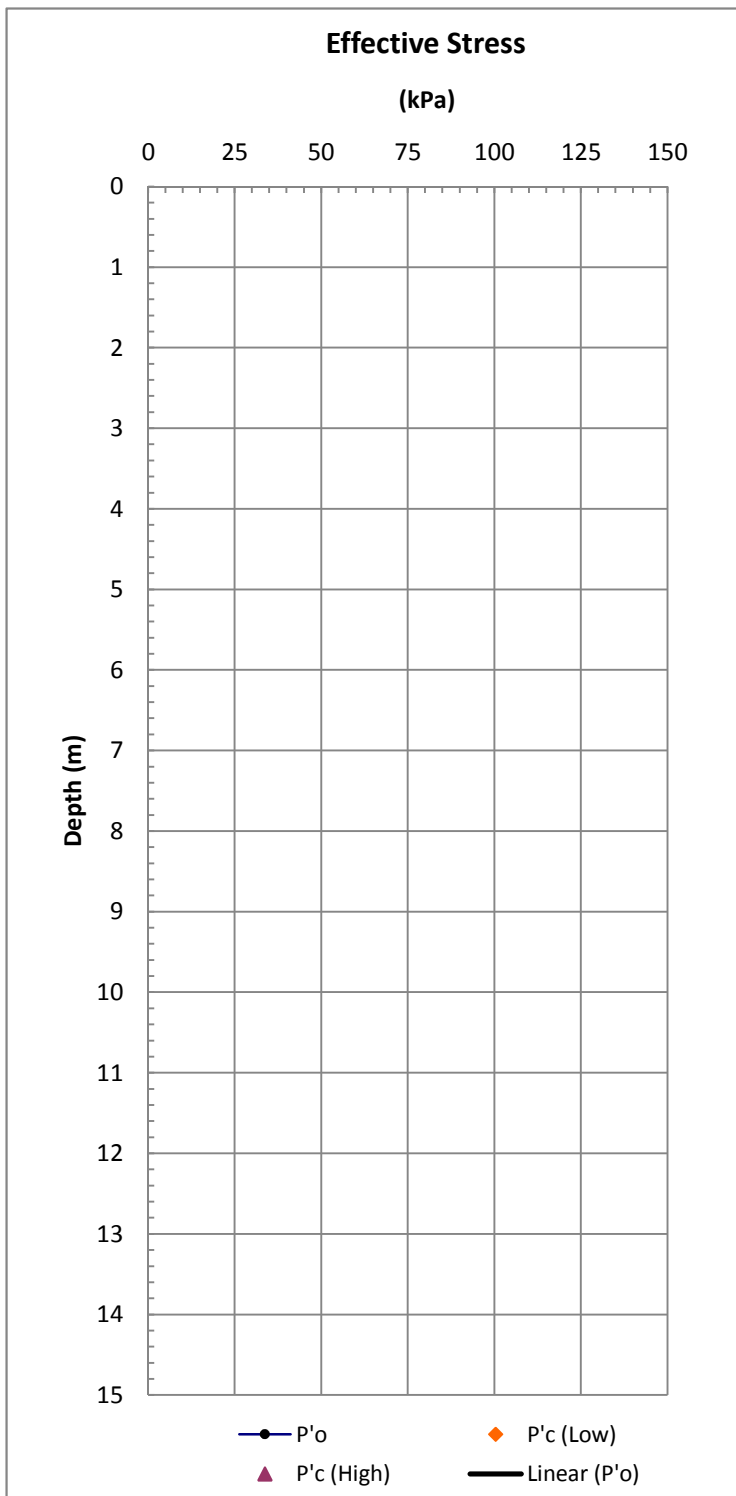
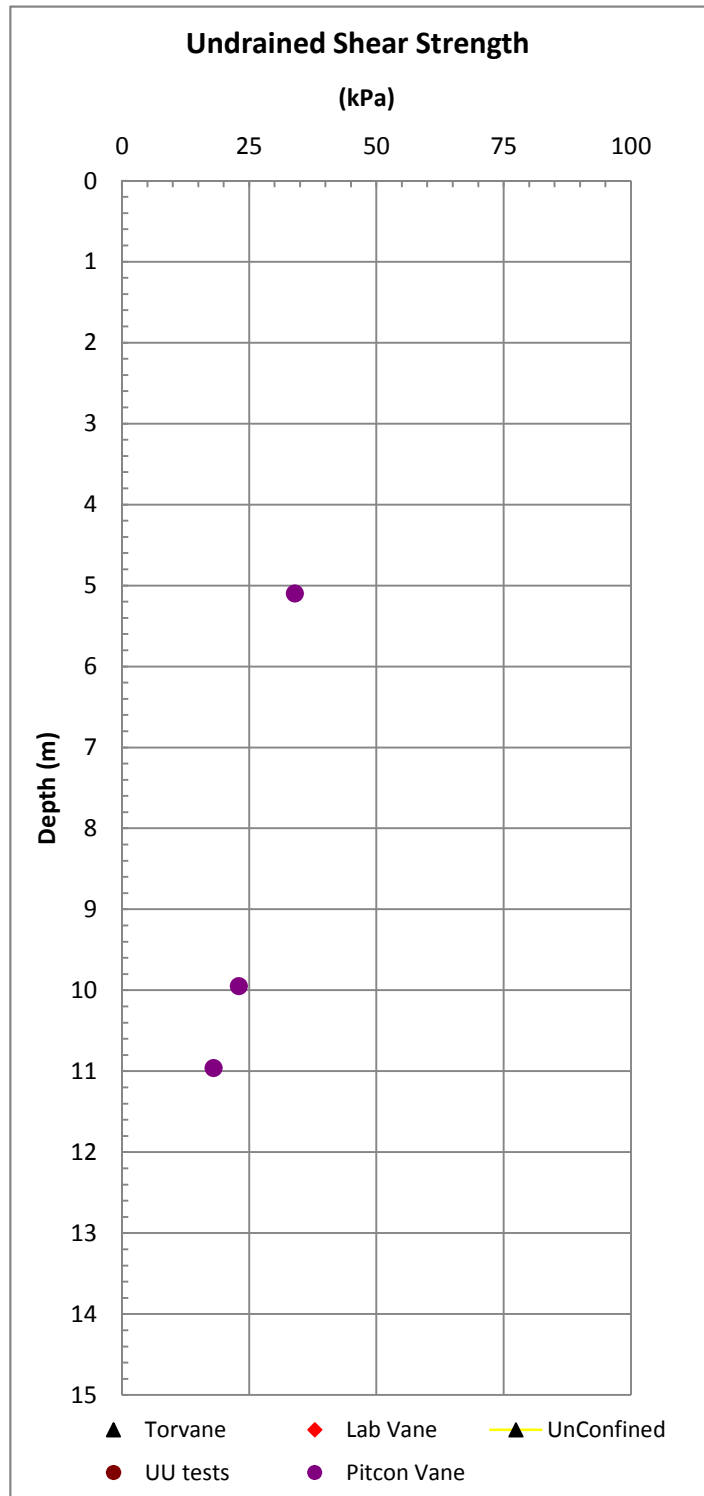
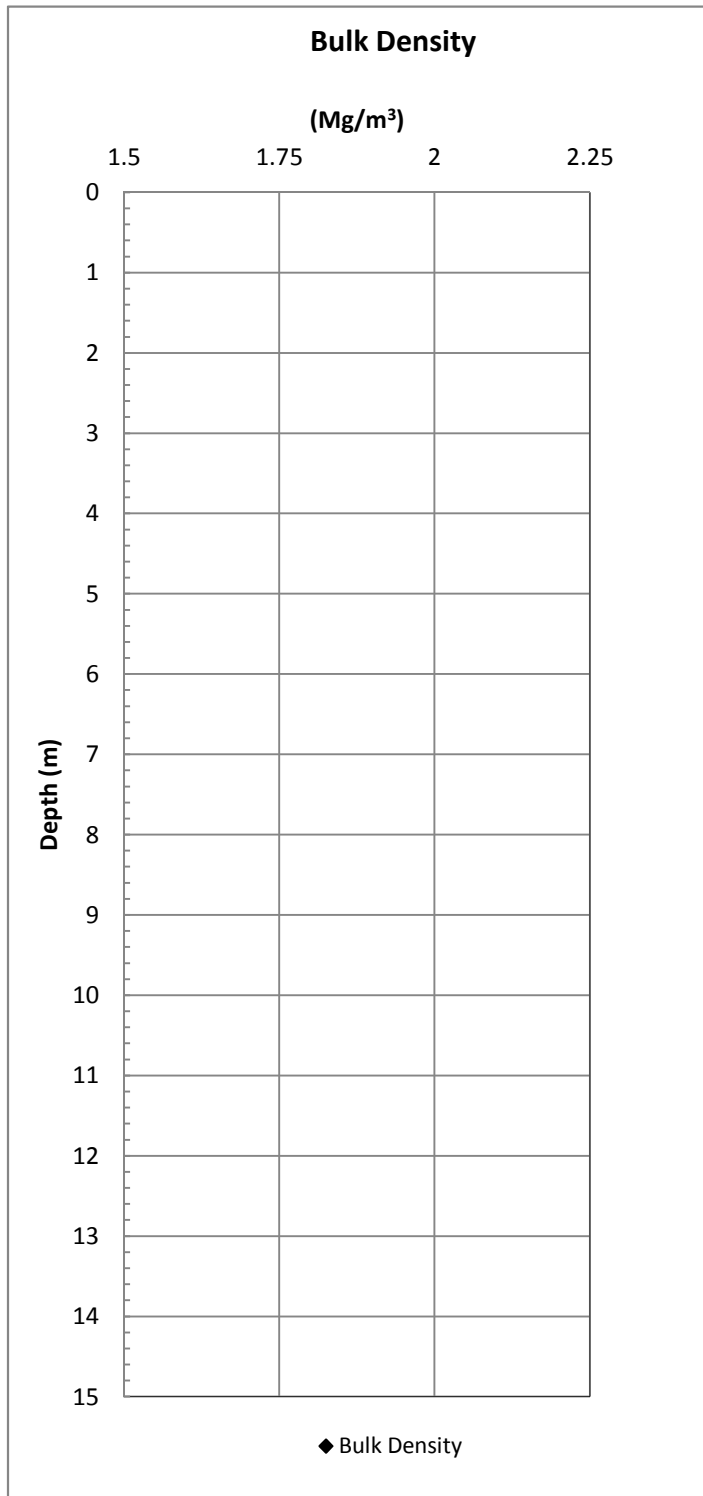


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Figure C.3

10033 Beaufort Data

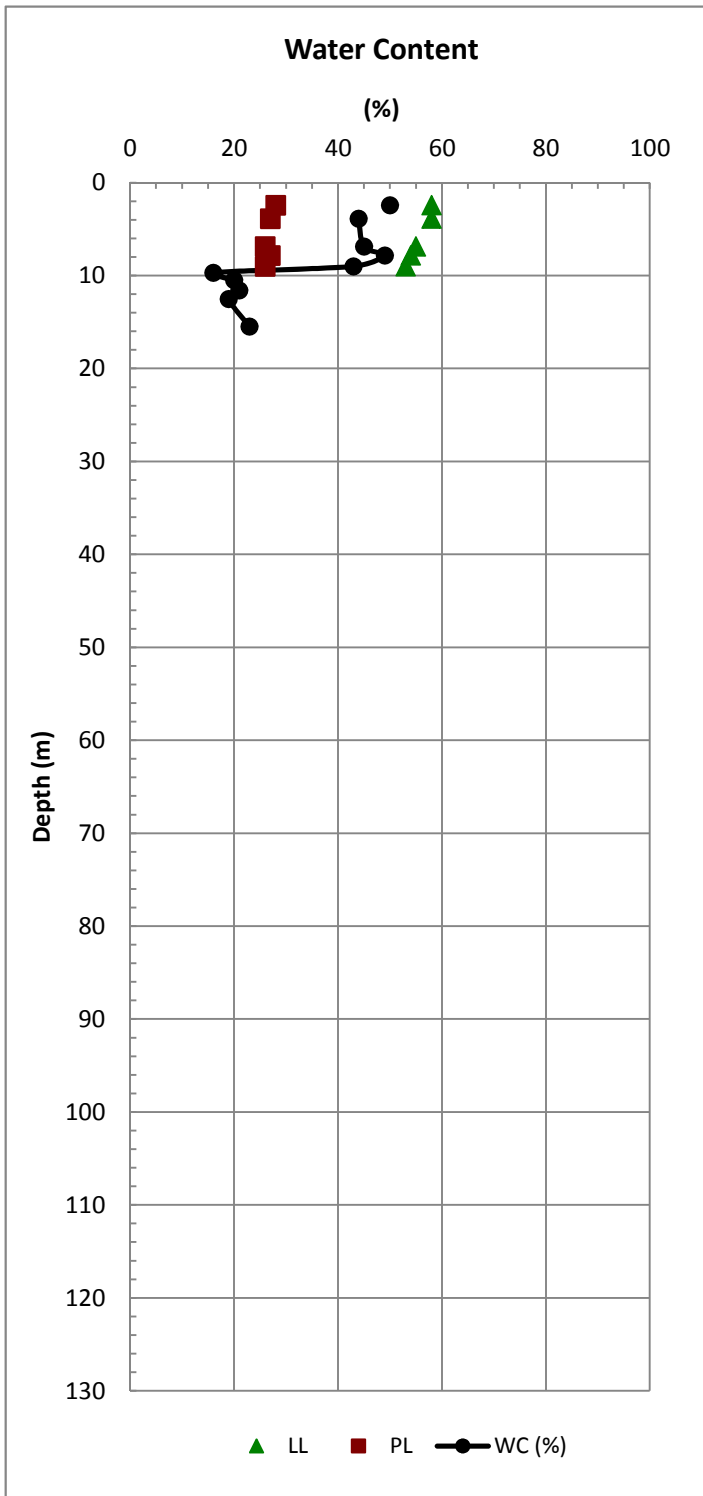
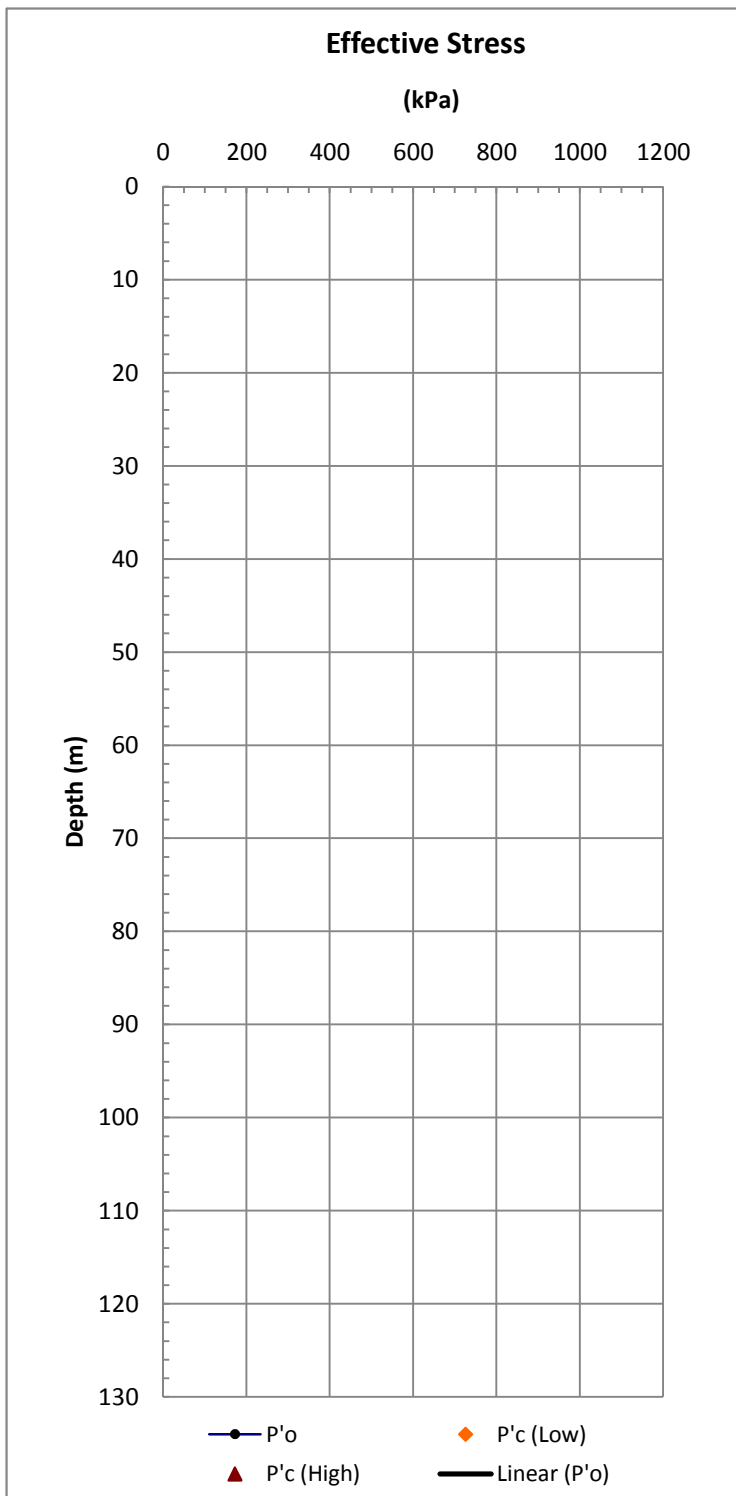
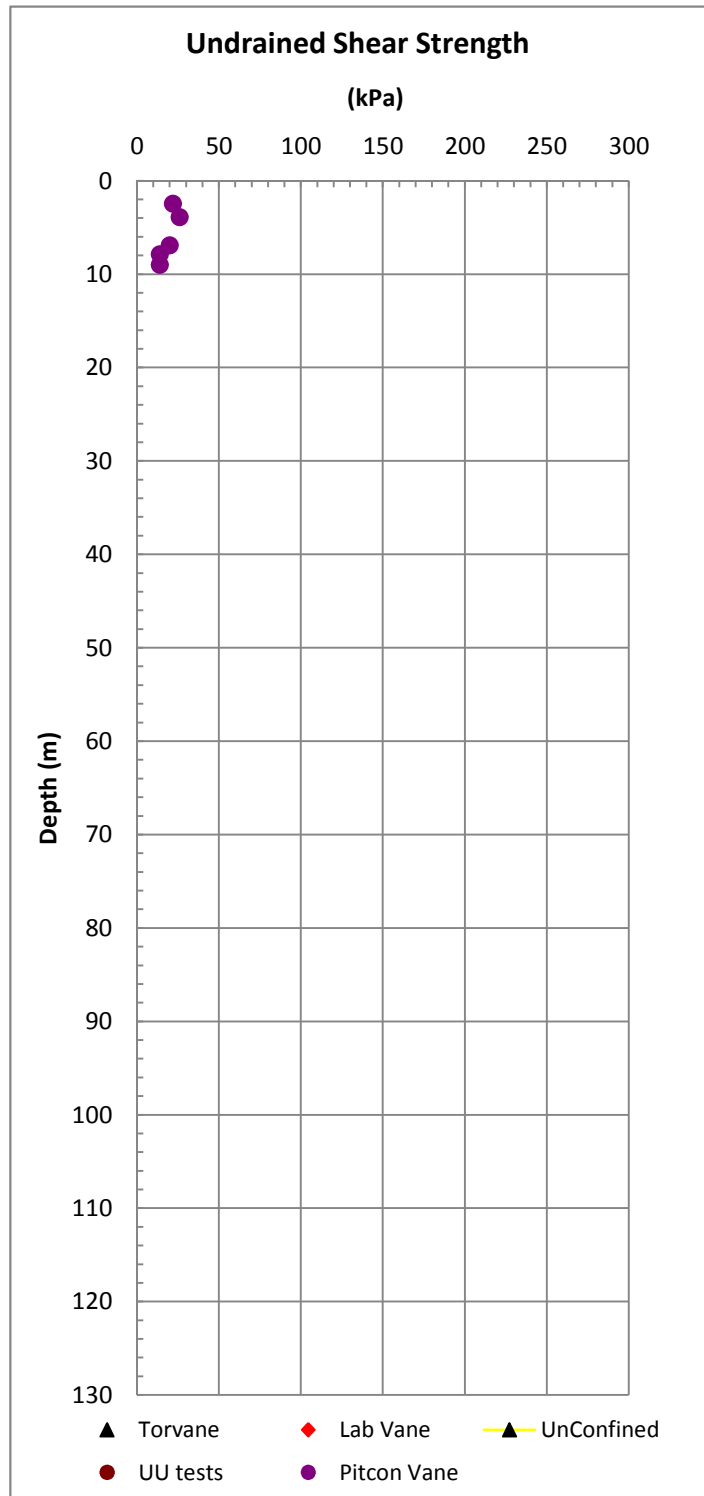
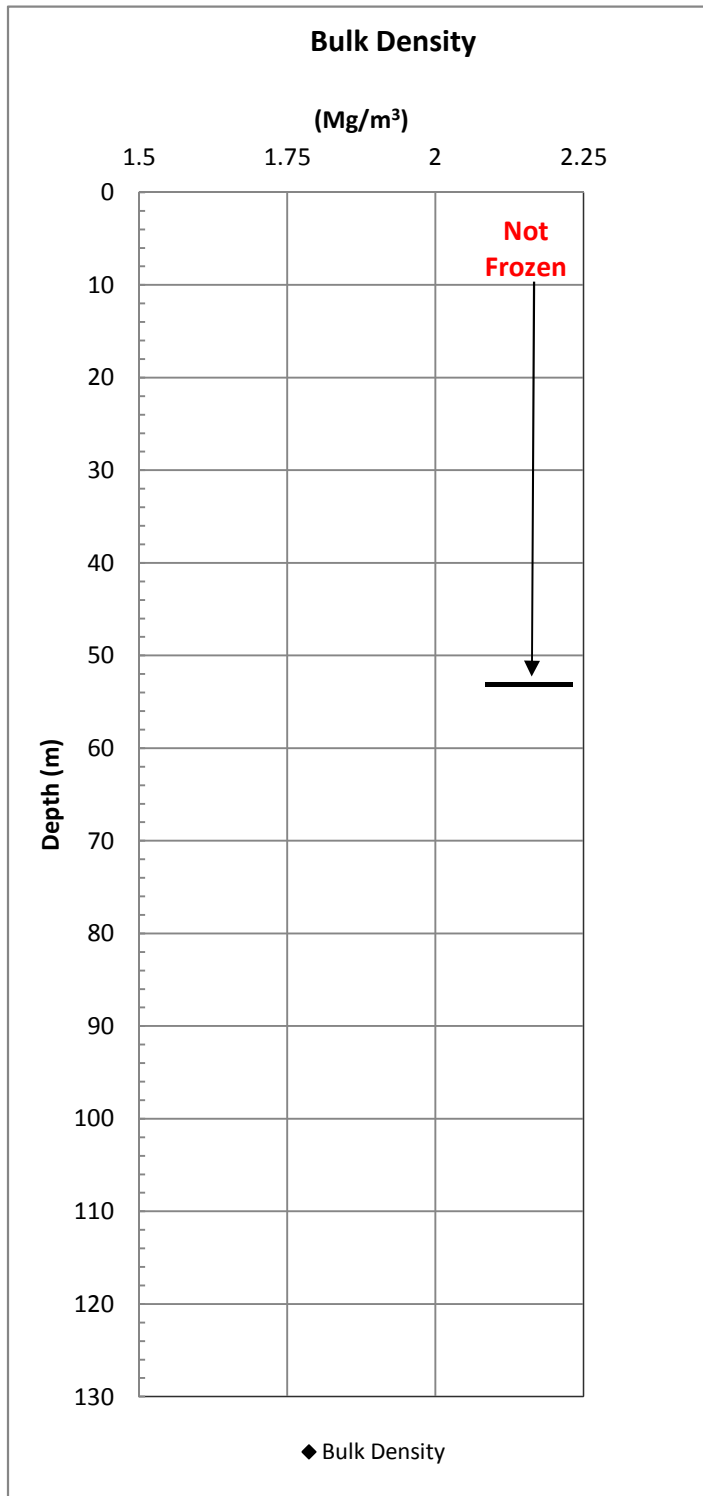


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Figure C.3

10033 Beaufort Data

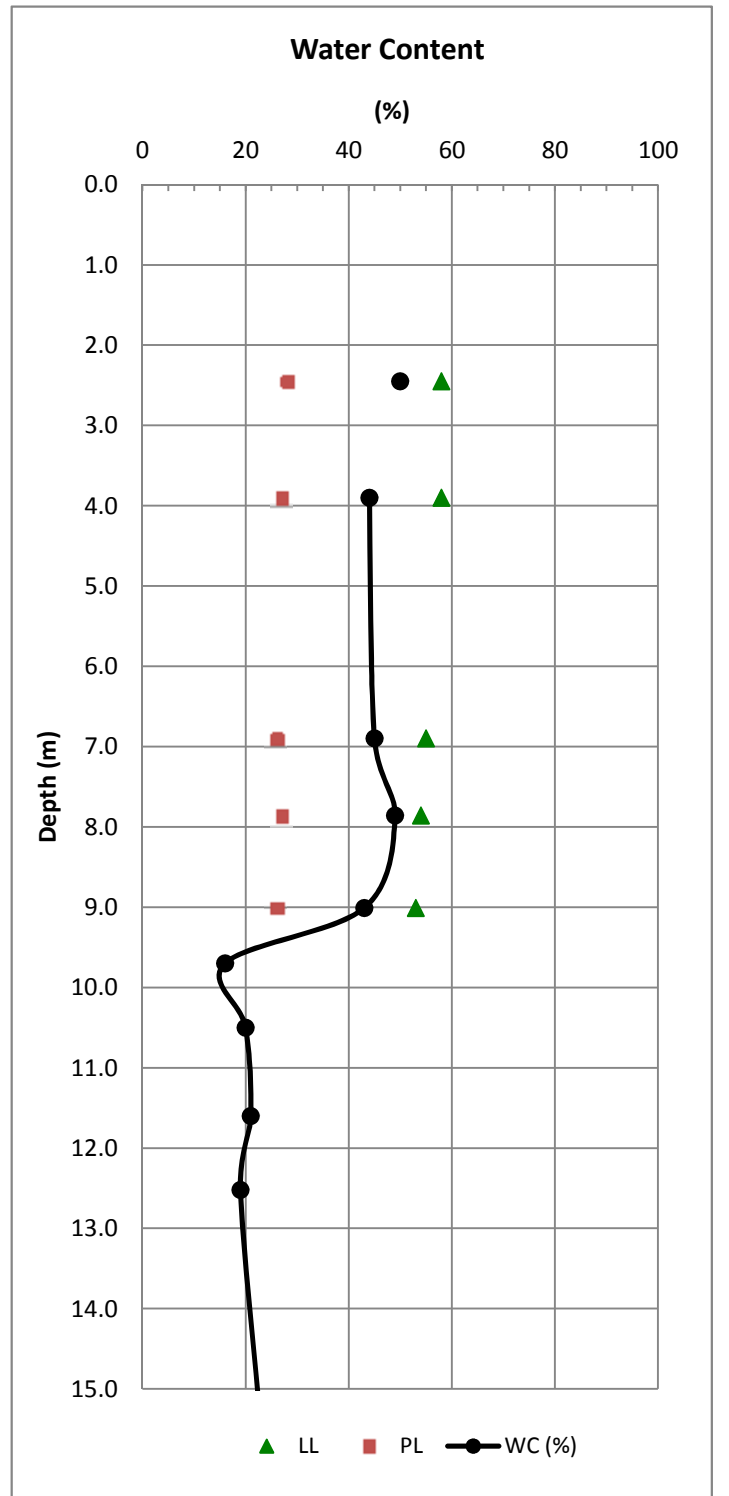
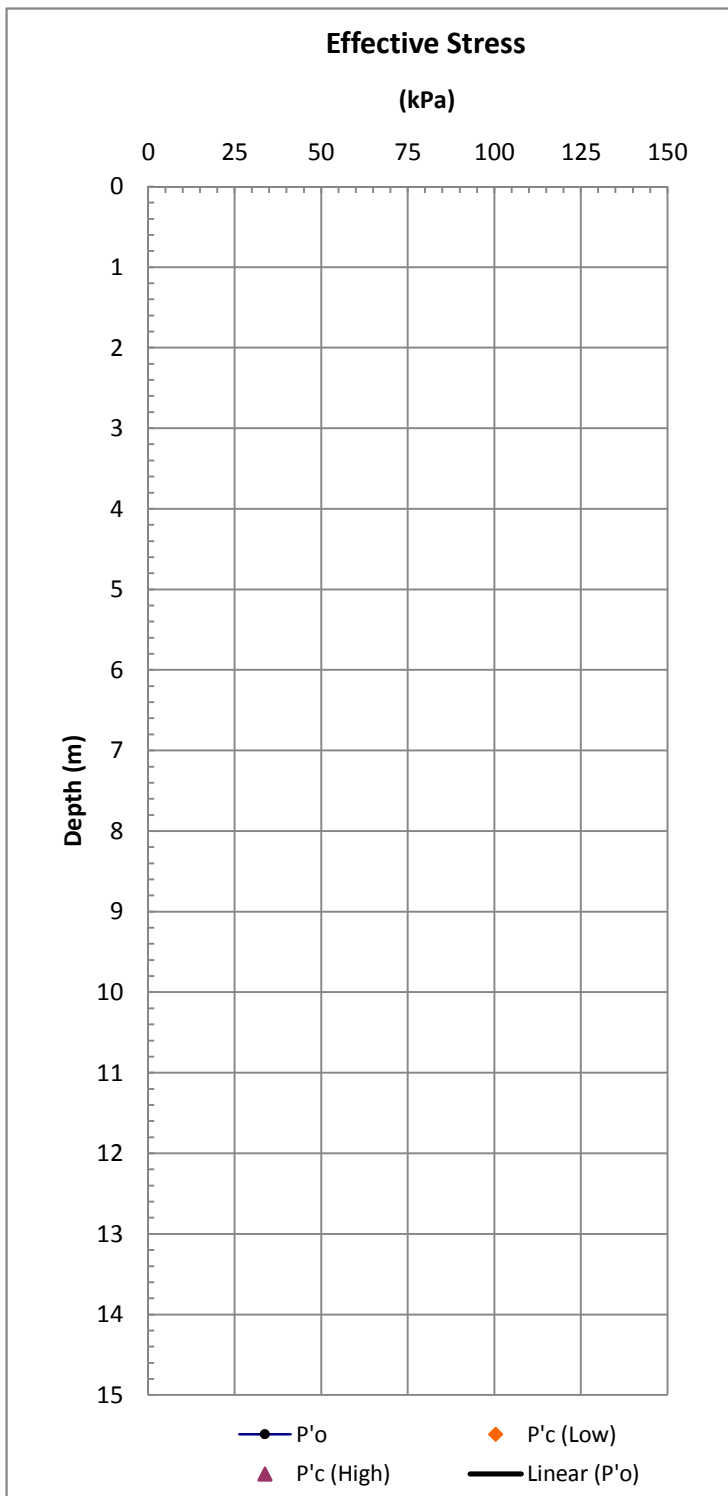
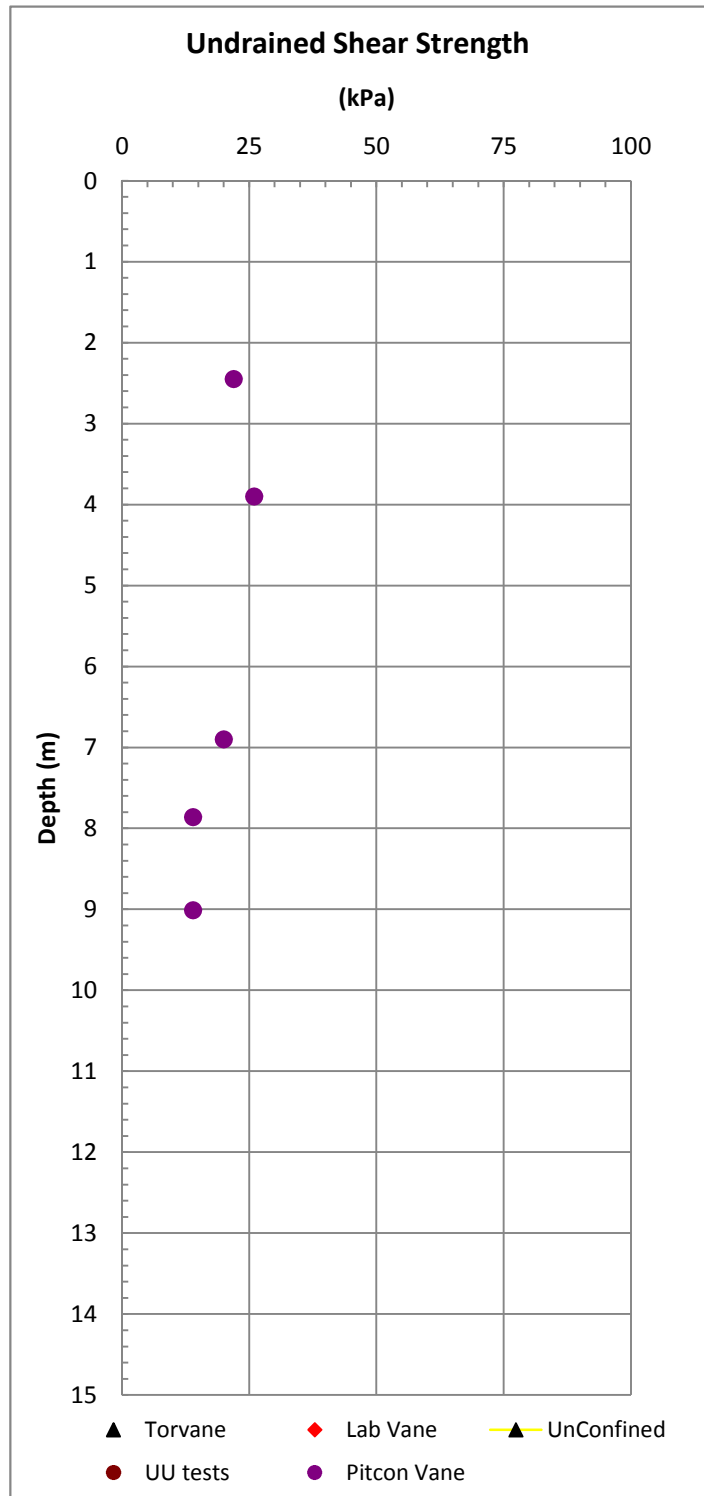
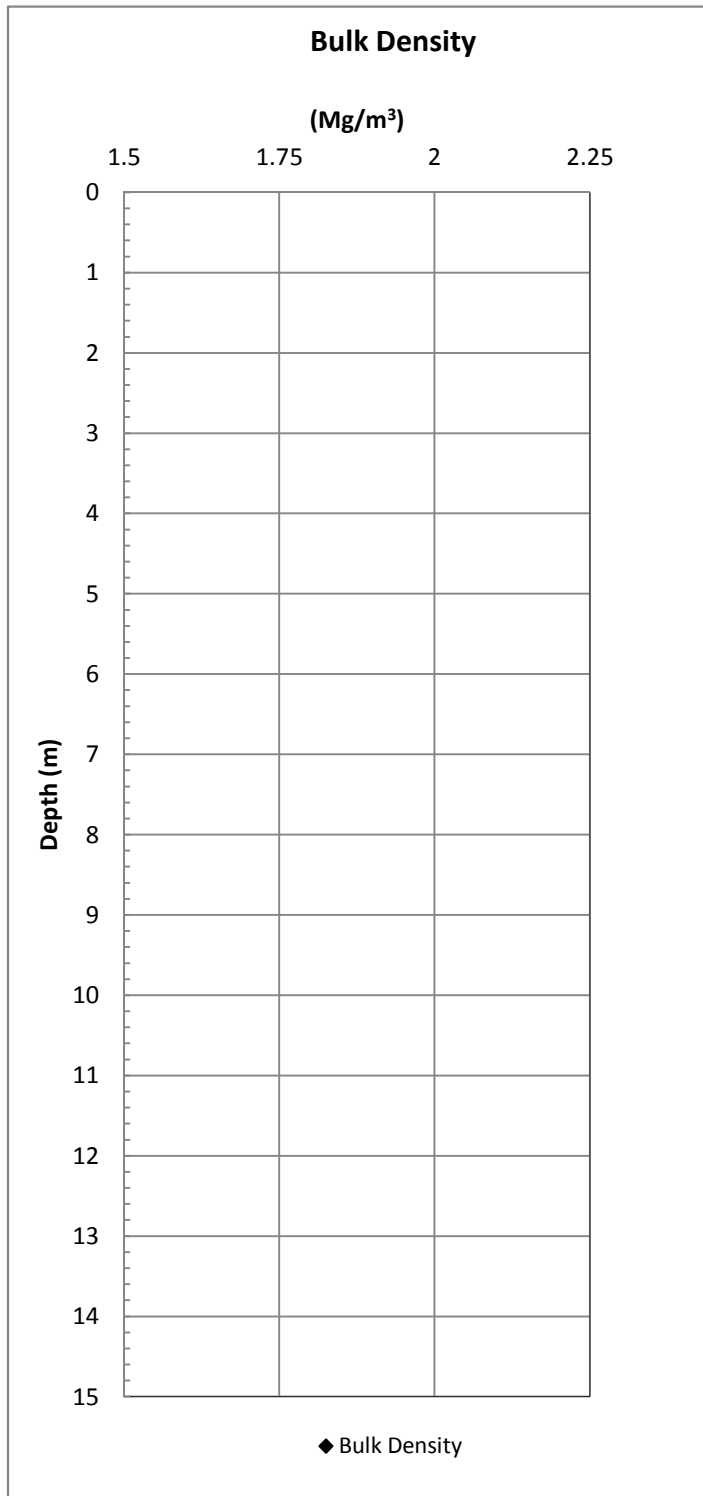


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10033 Beaufort Data

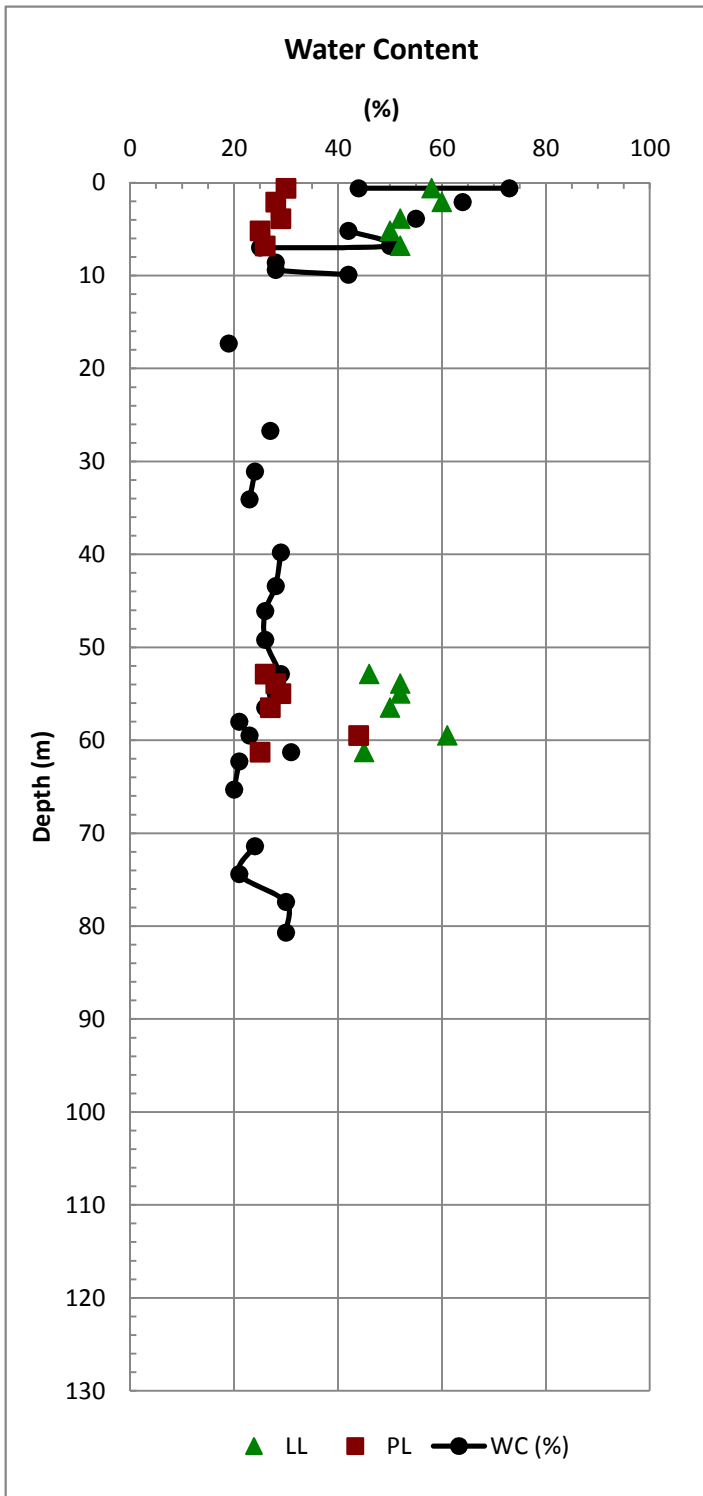
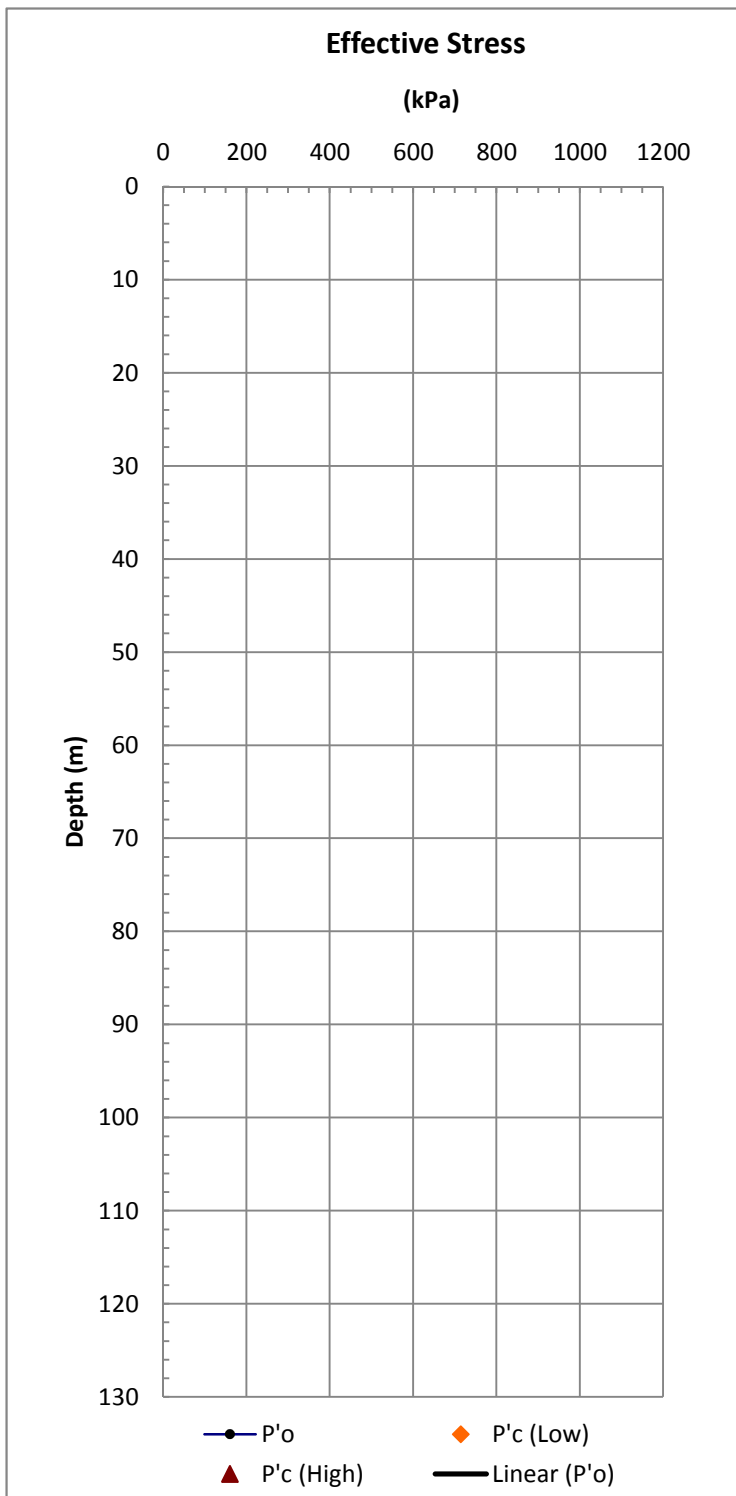
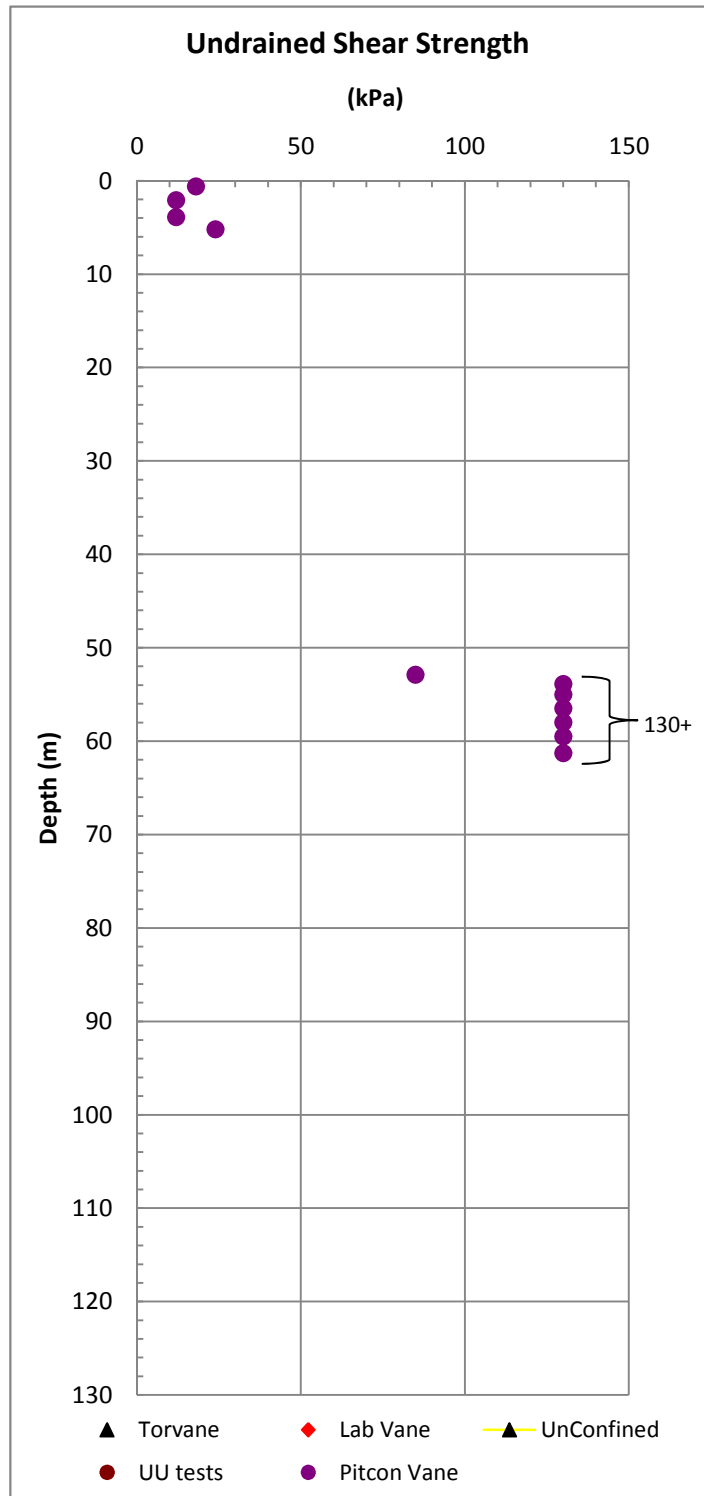
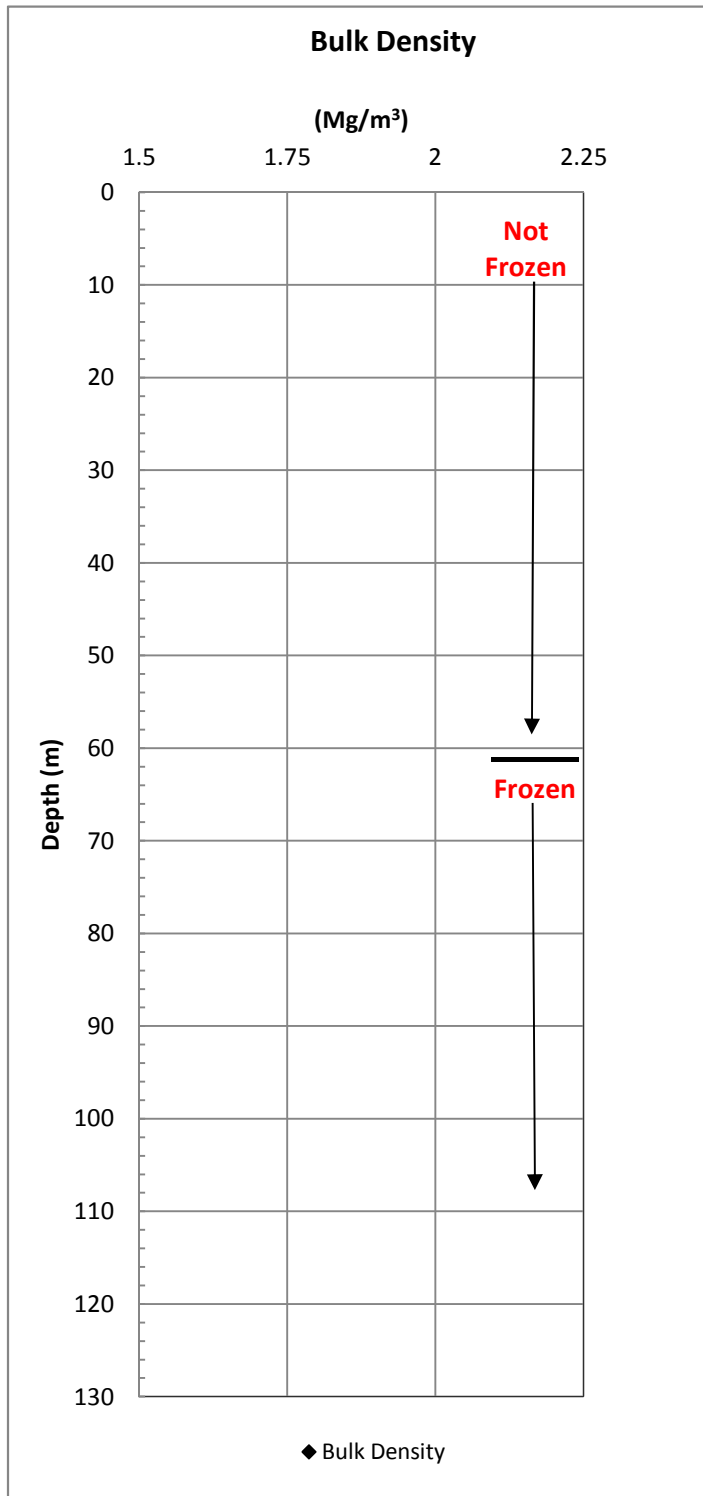


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10033 Beaufort Data

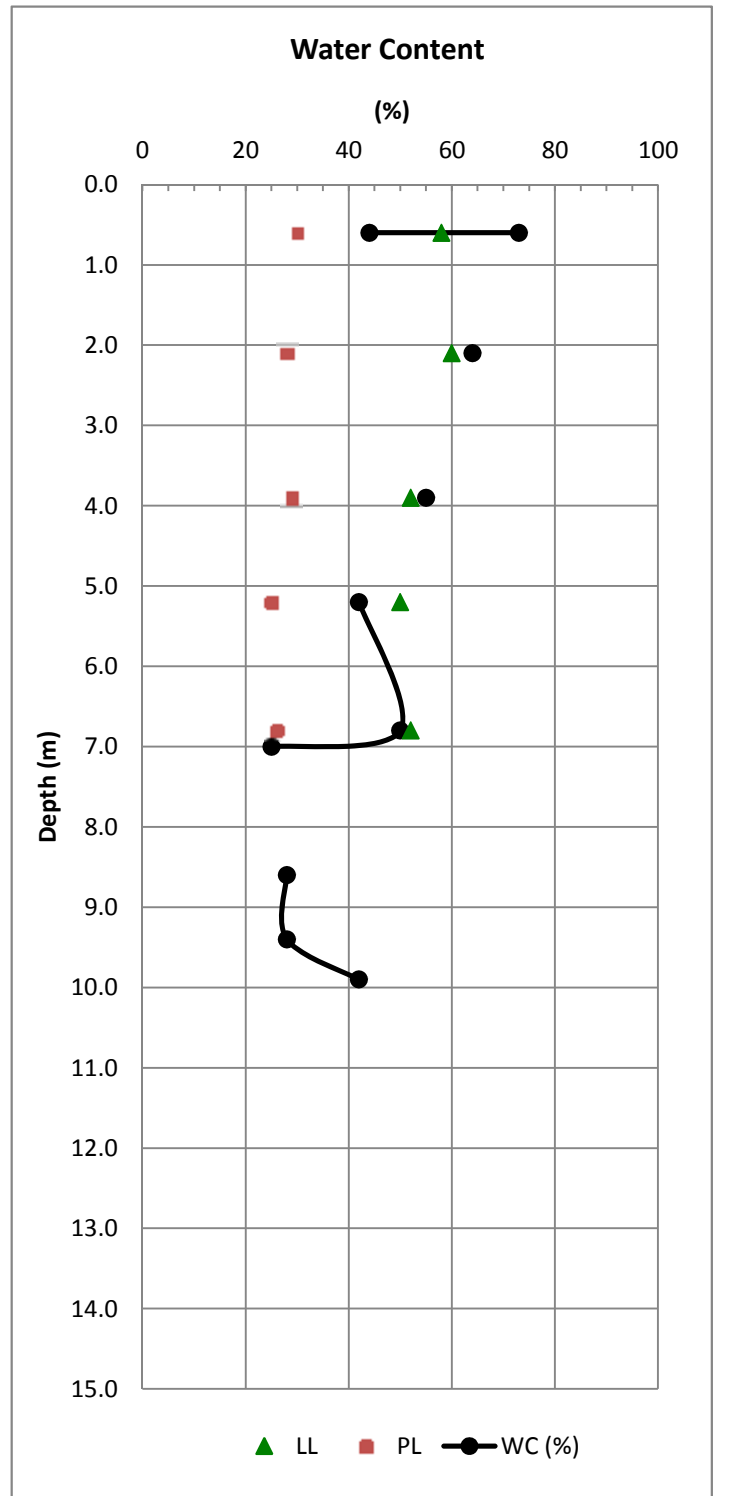
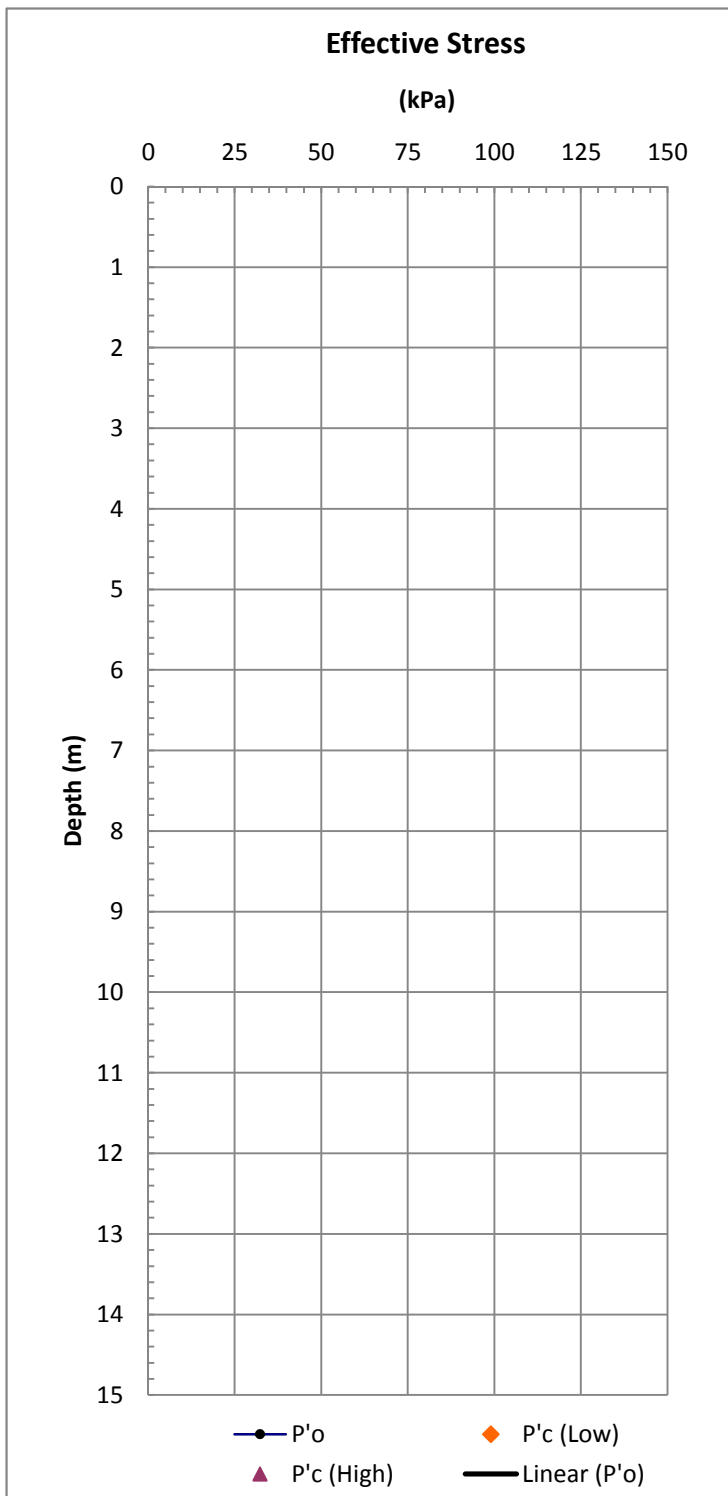
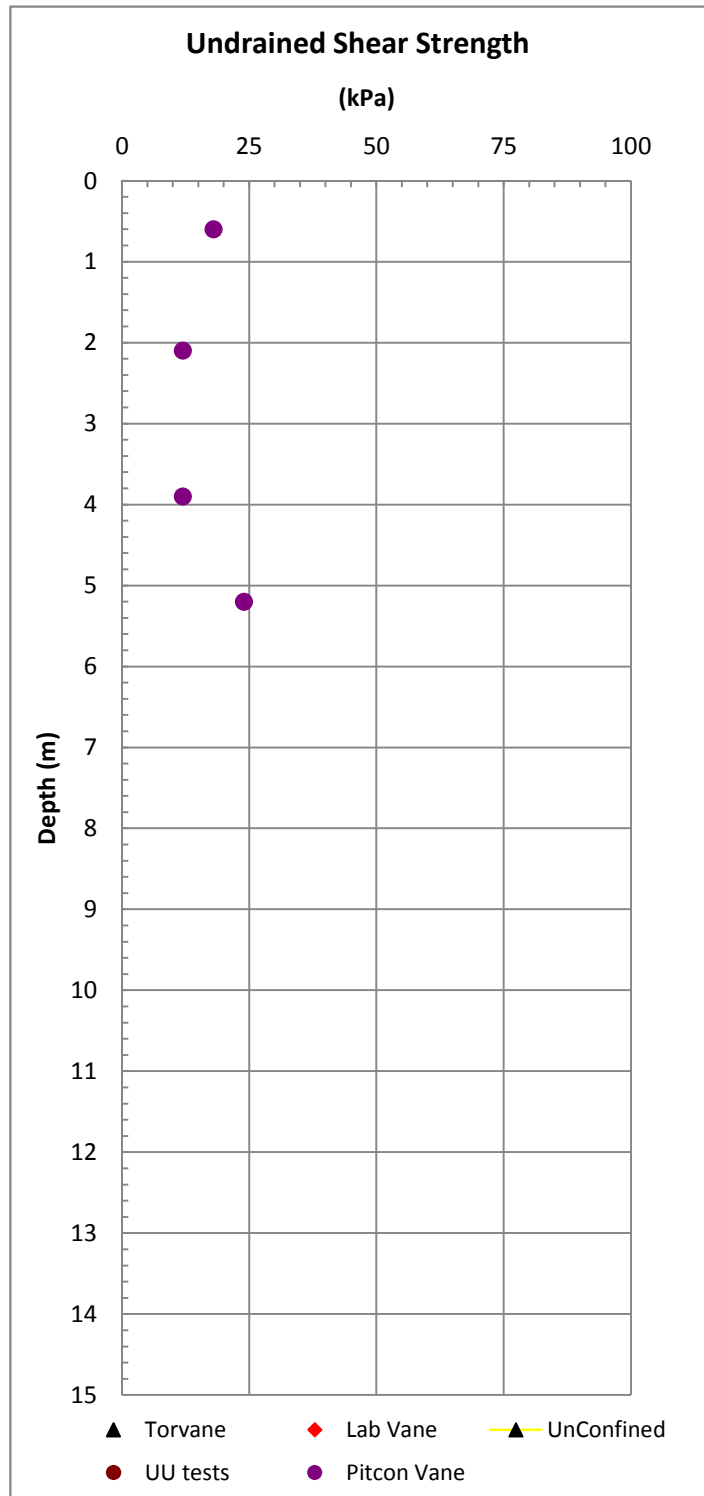
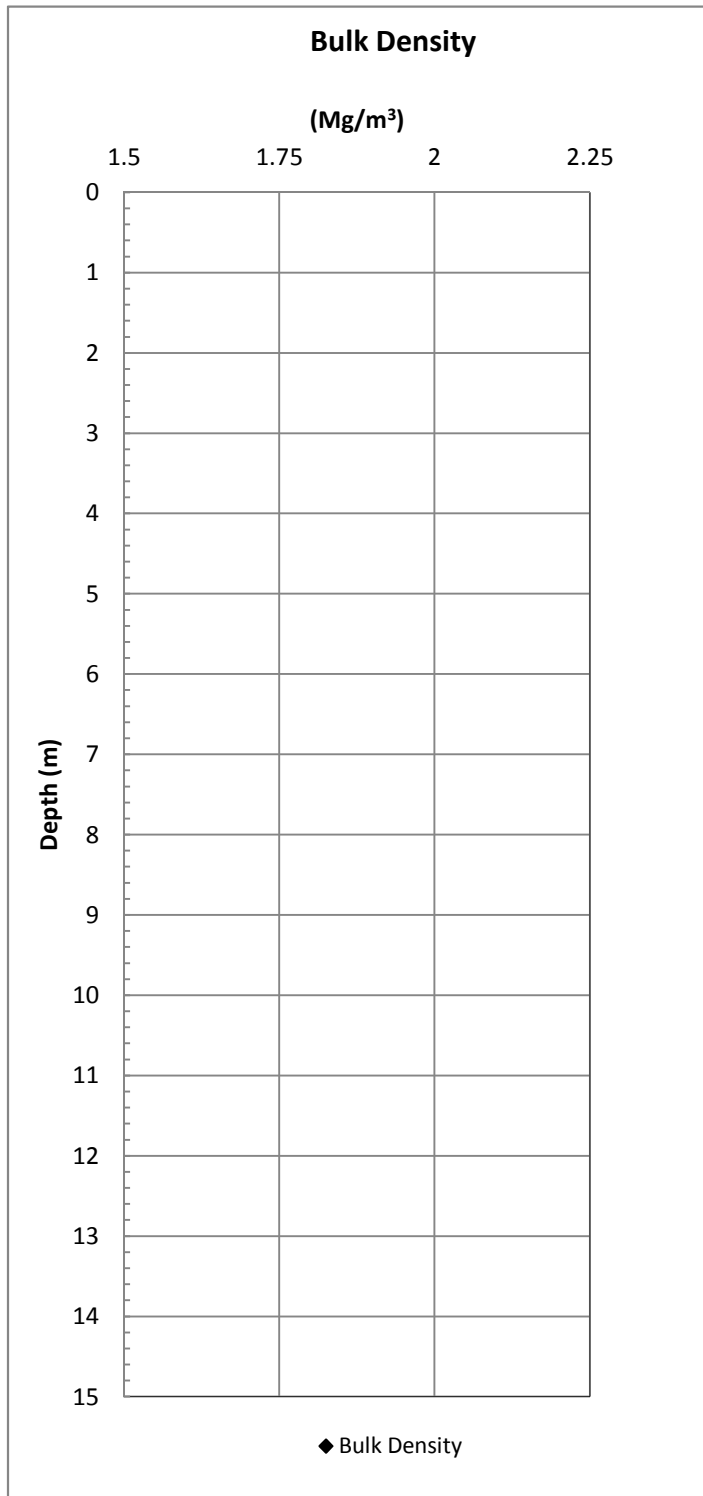


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Figure C.3

10033 Beaufort Data

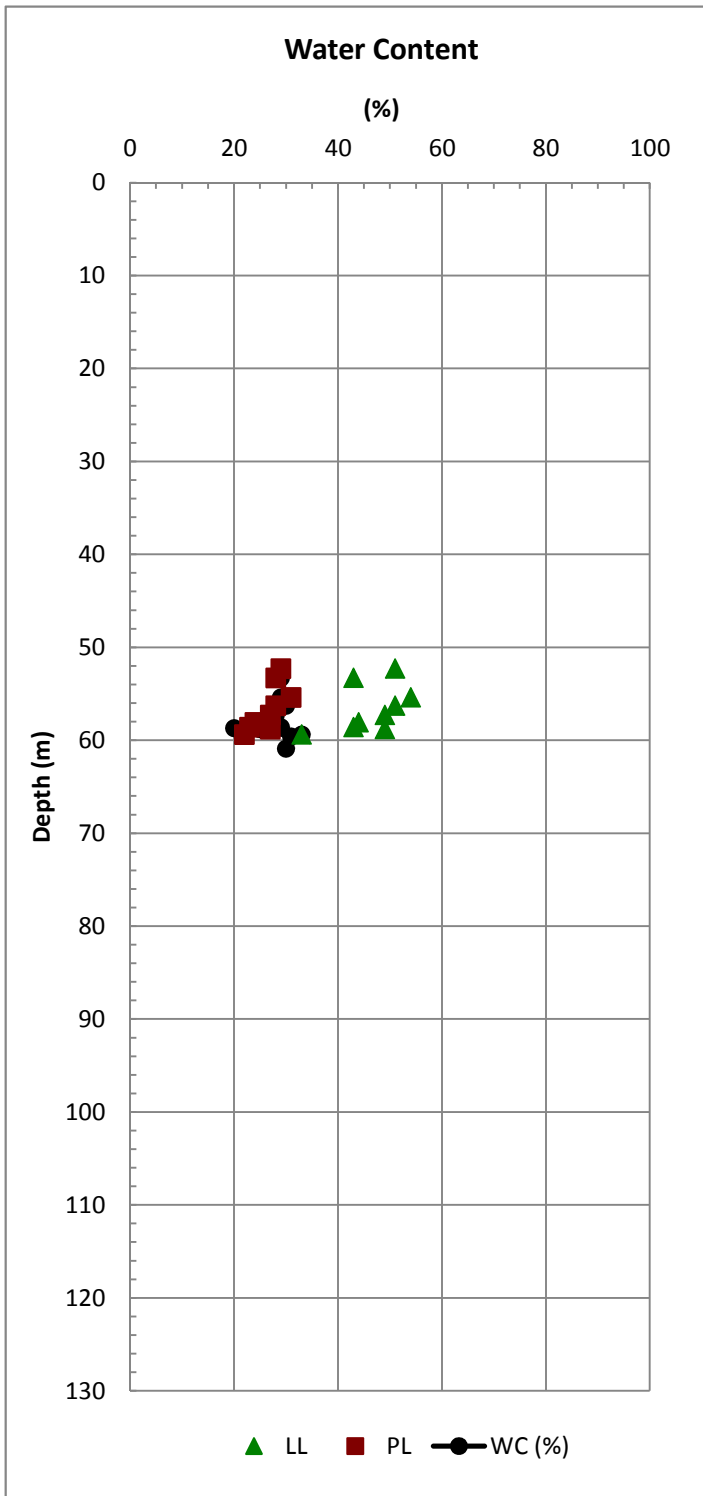
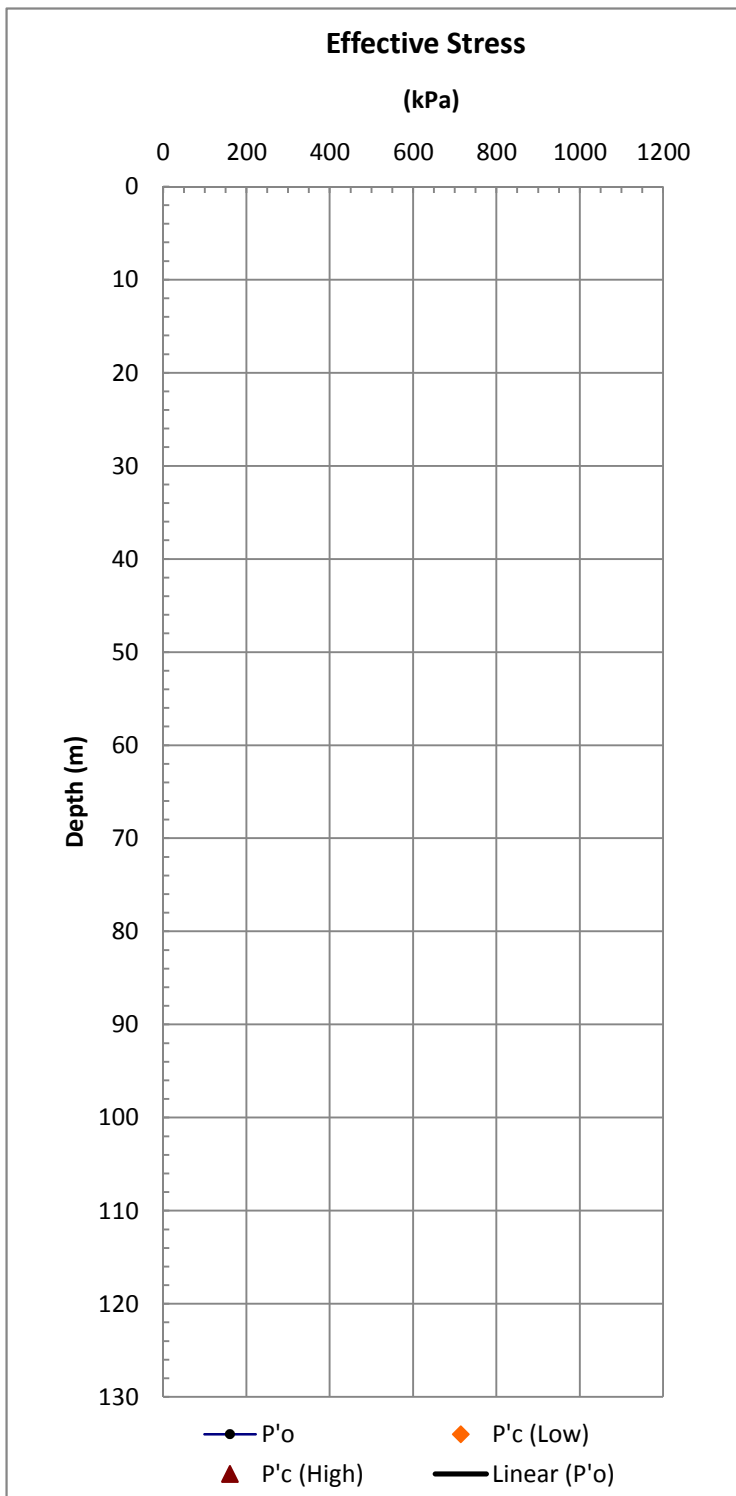
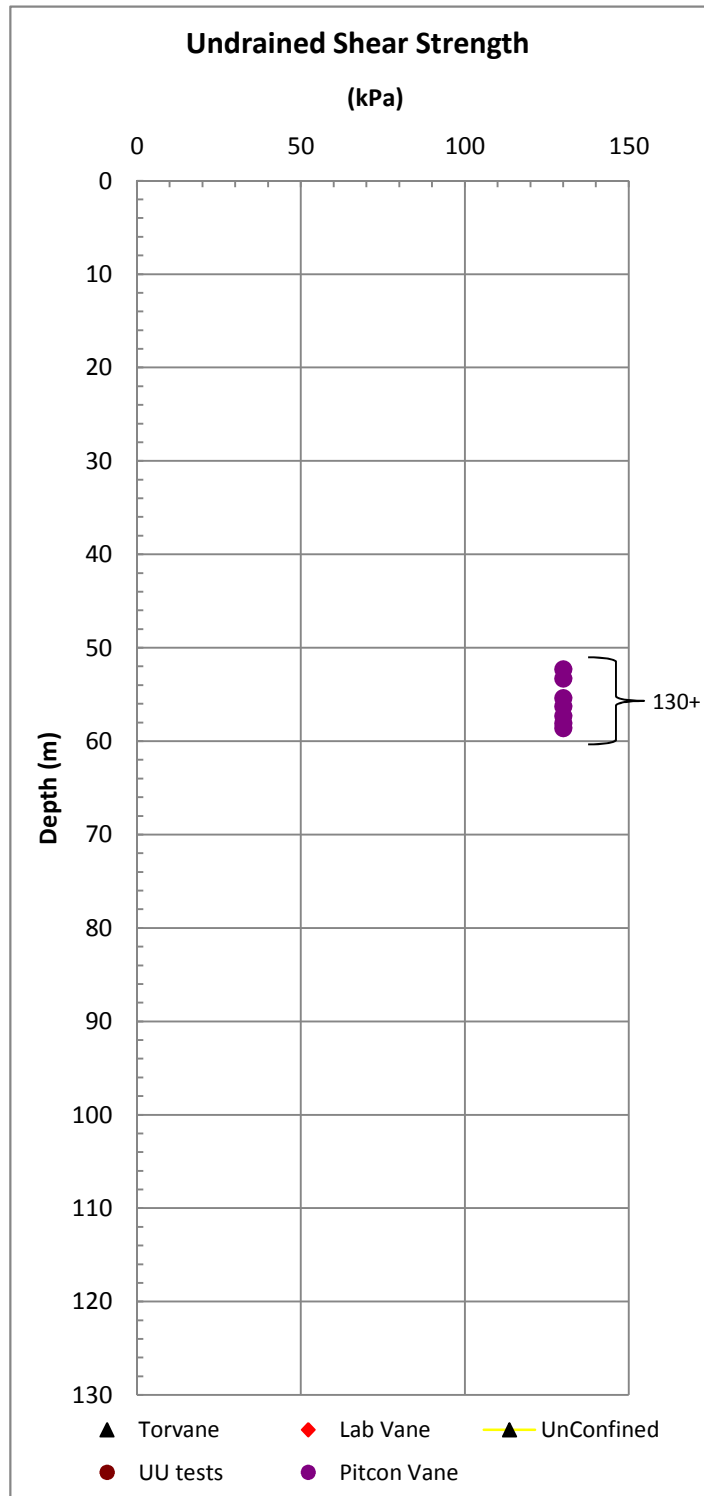
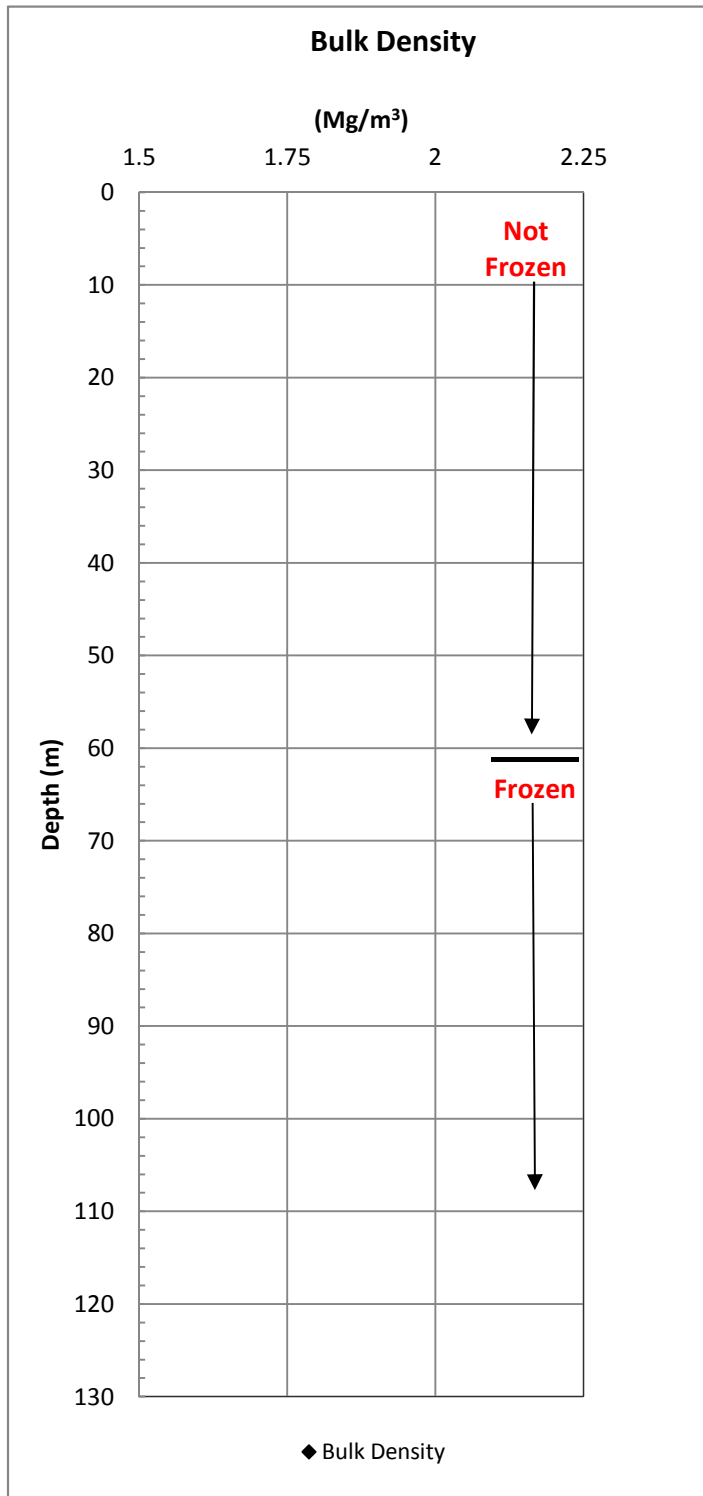


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Figure C.3

10033 Beaufort Data

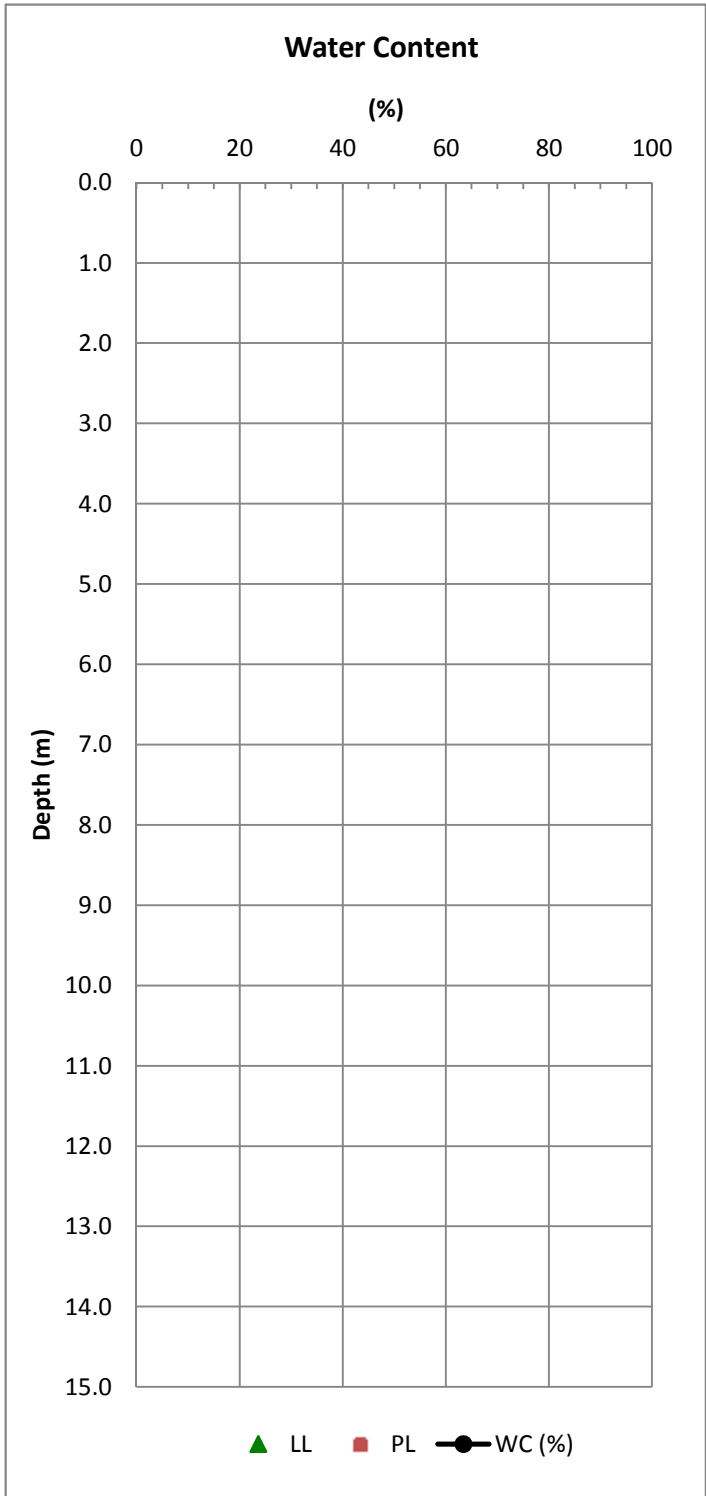
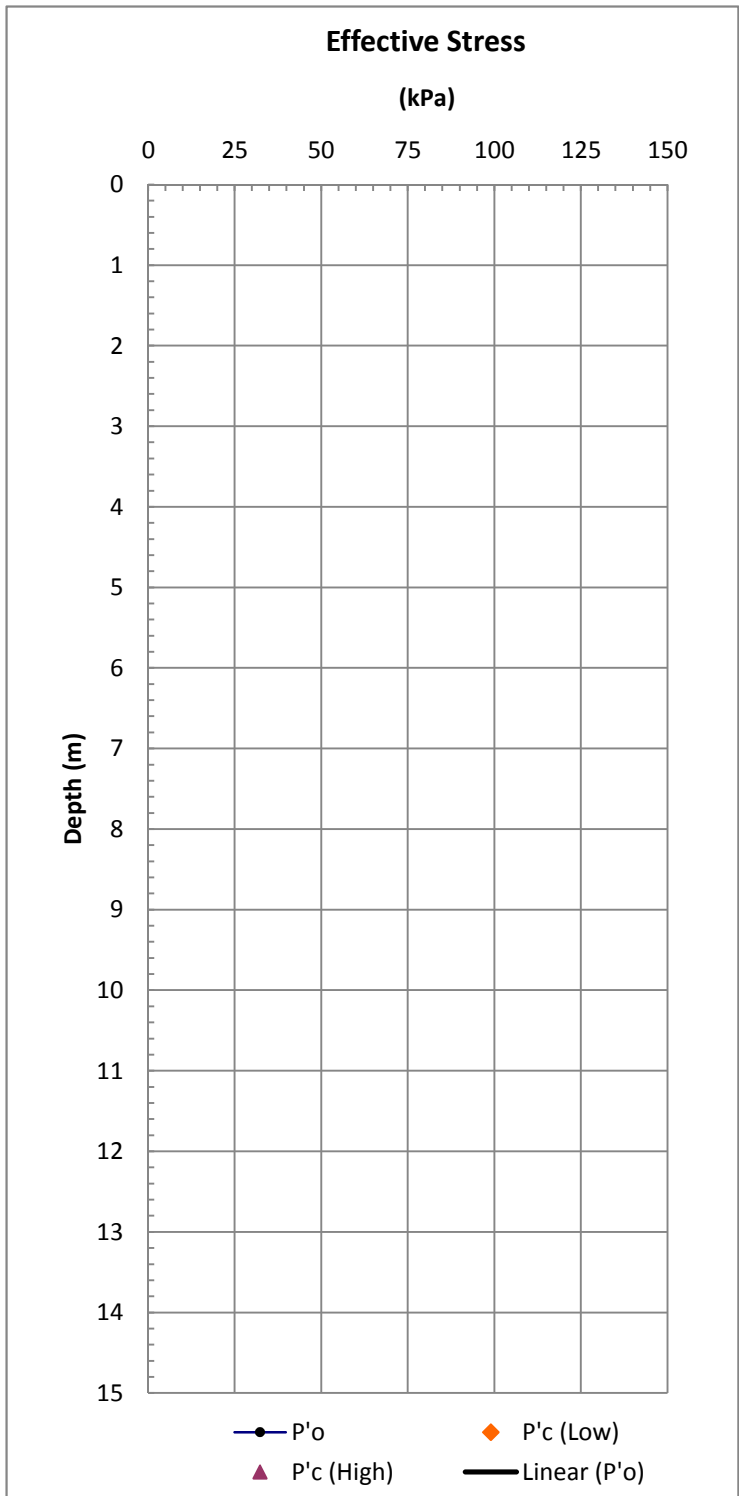
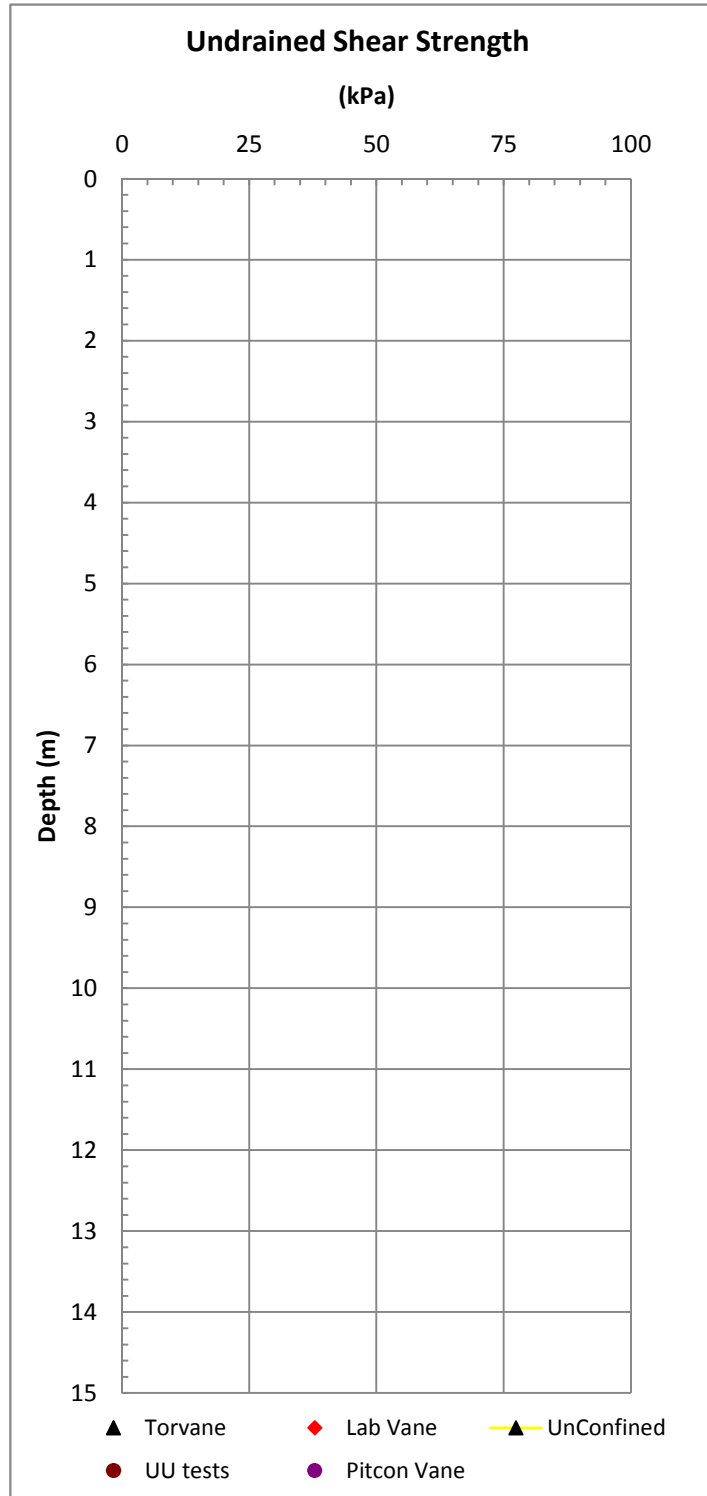
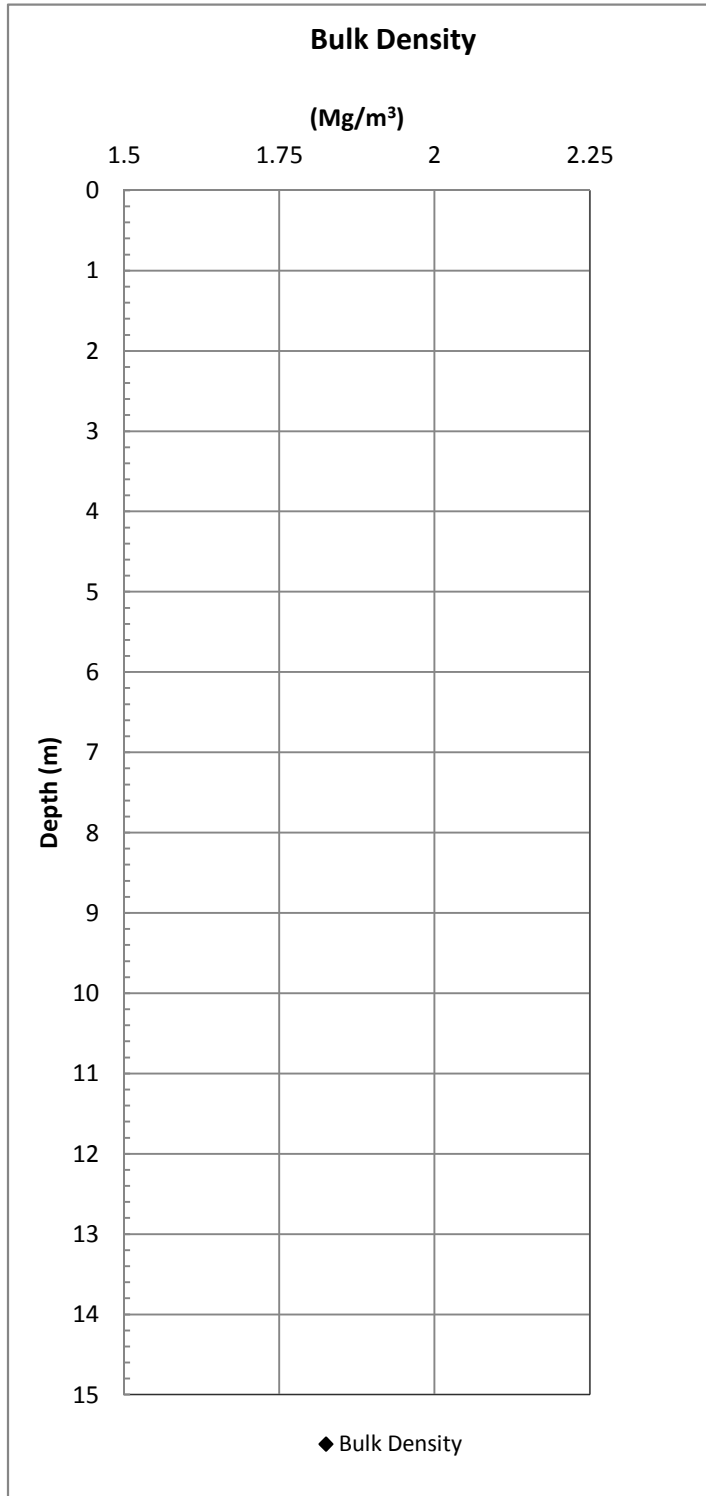


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Figure C.3

10033 Beaufort Data

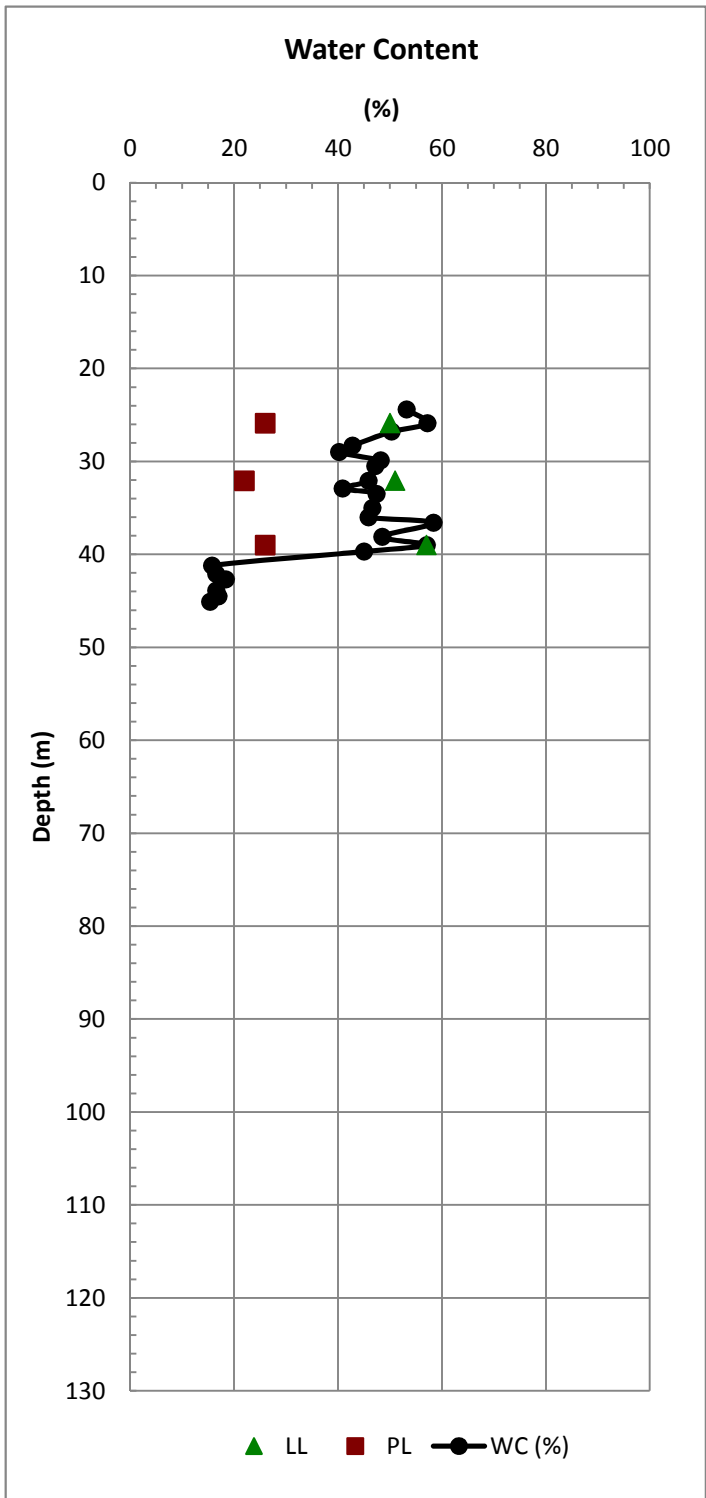
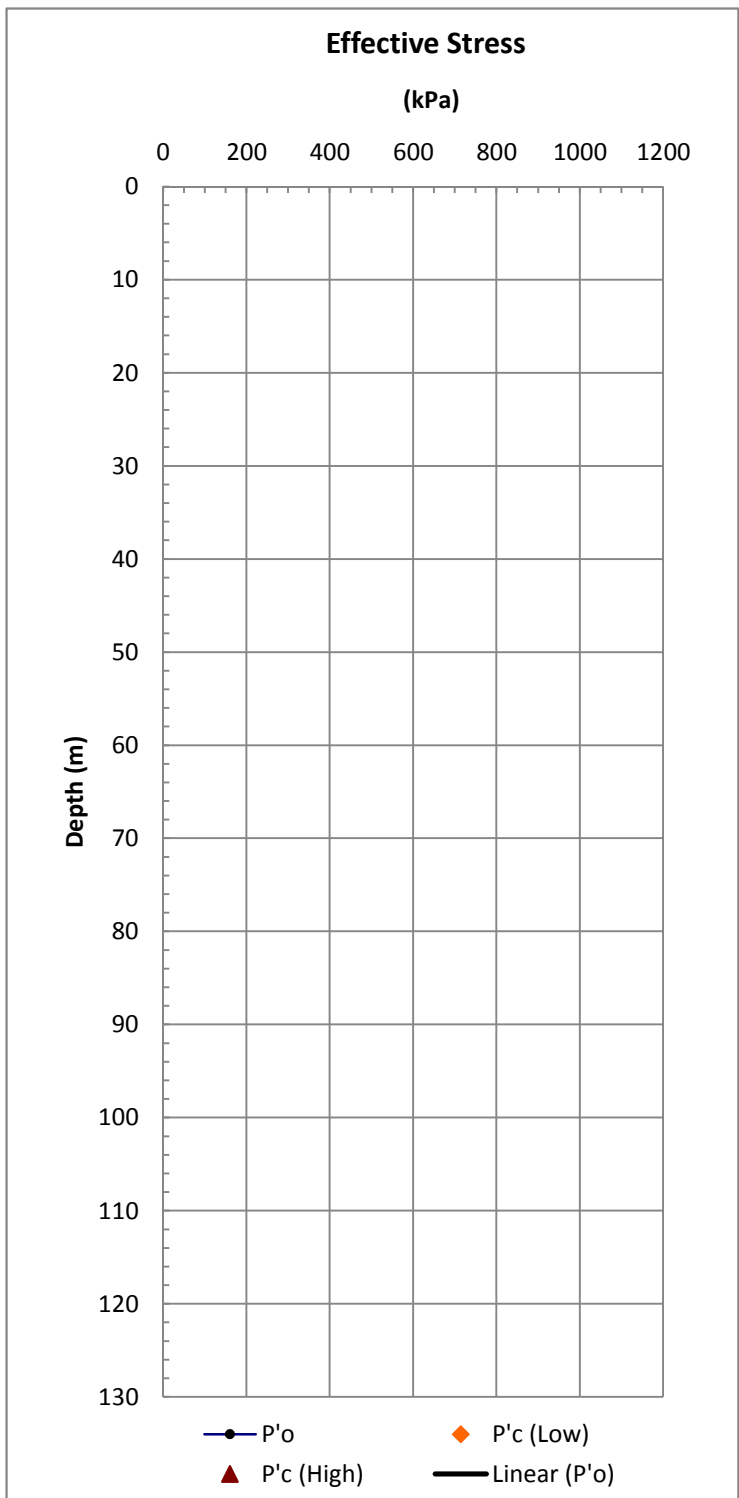
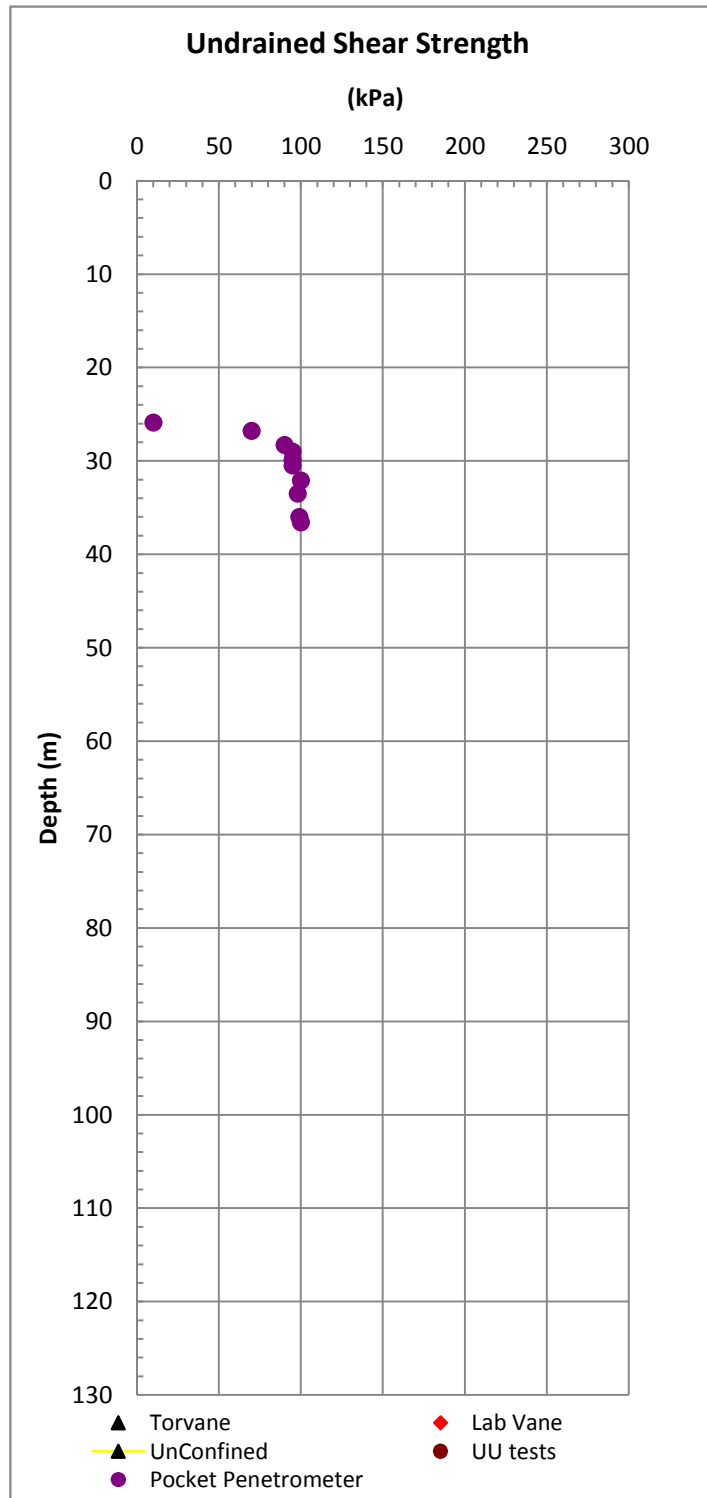
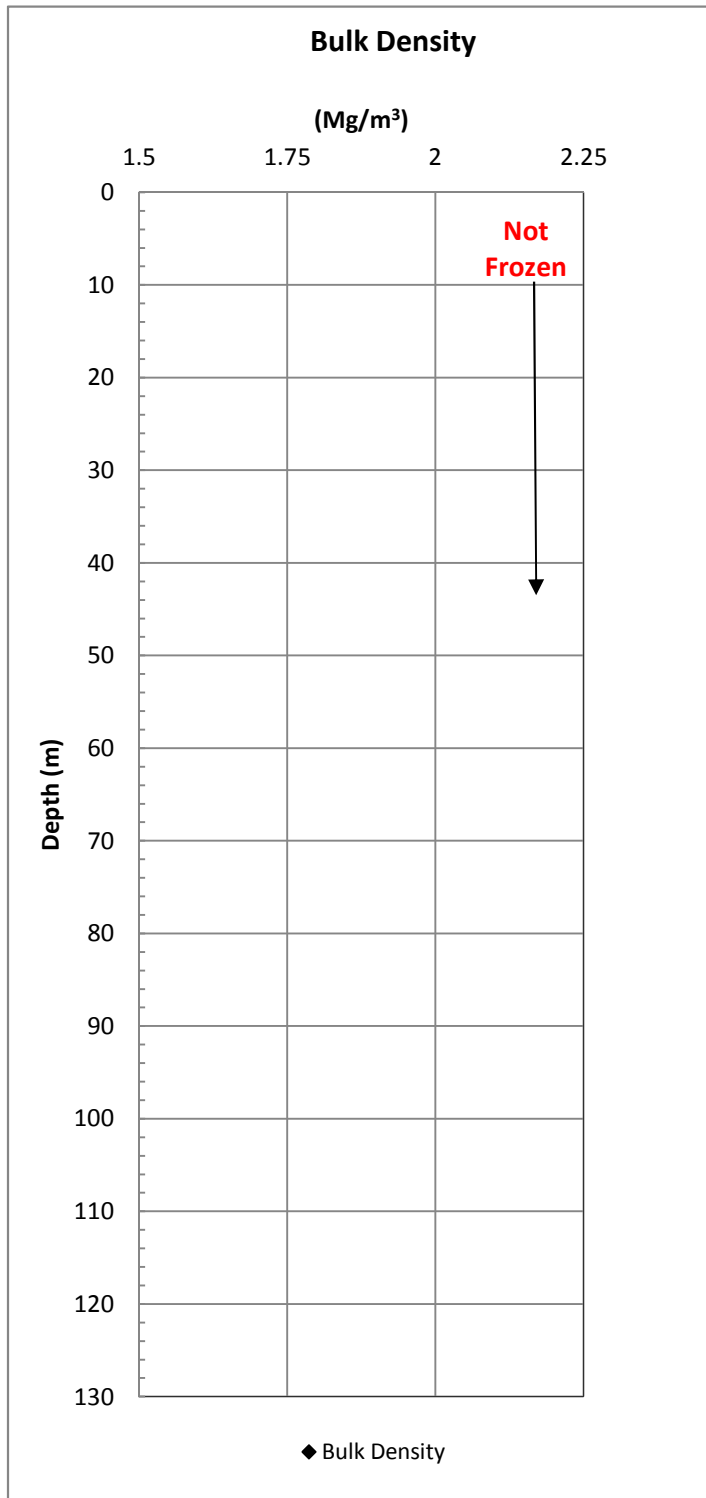


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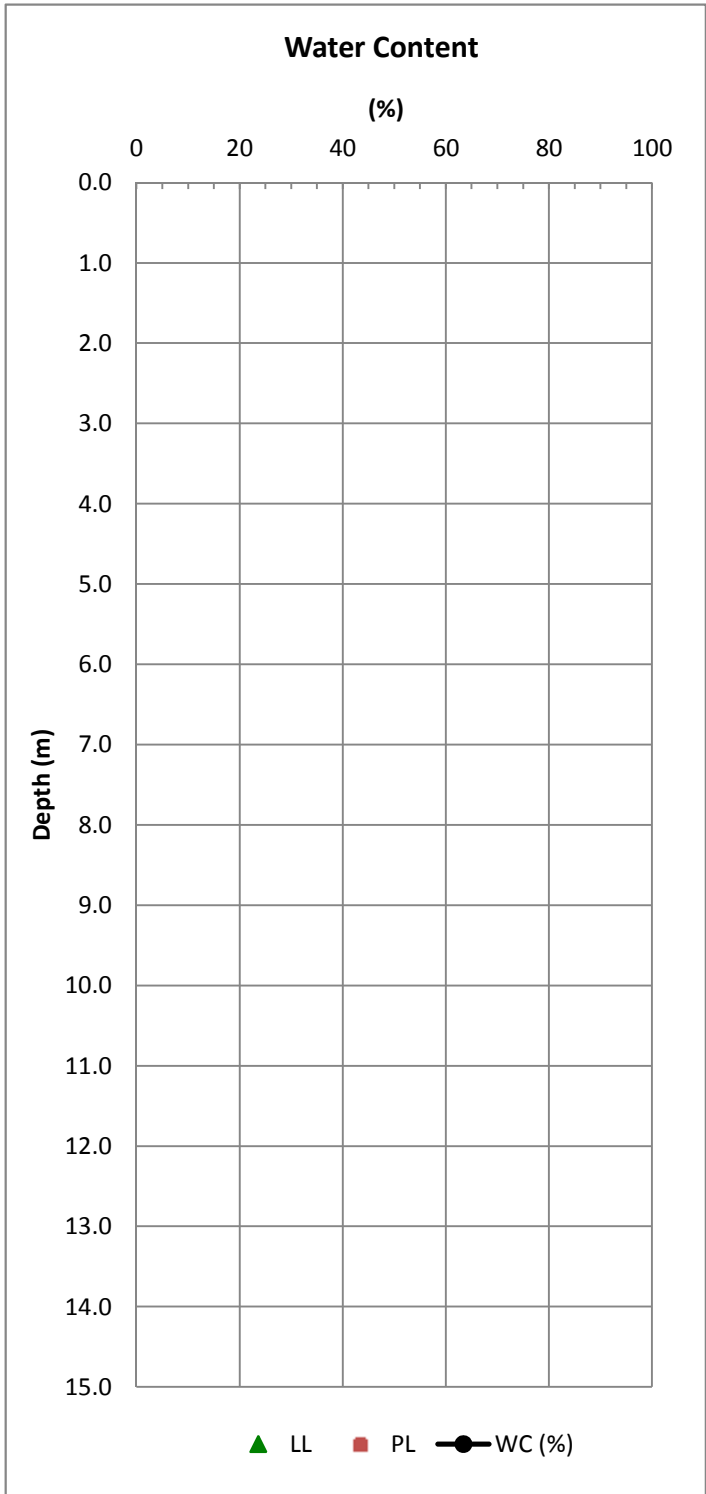
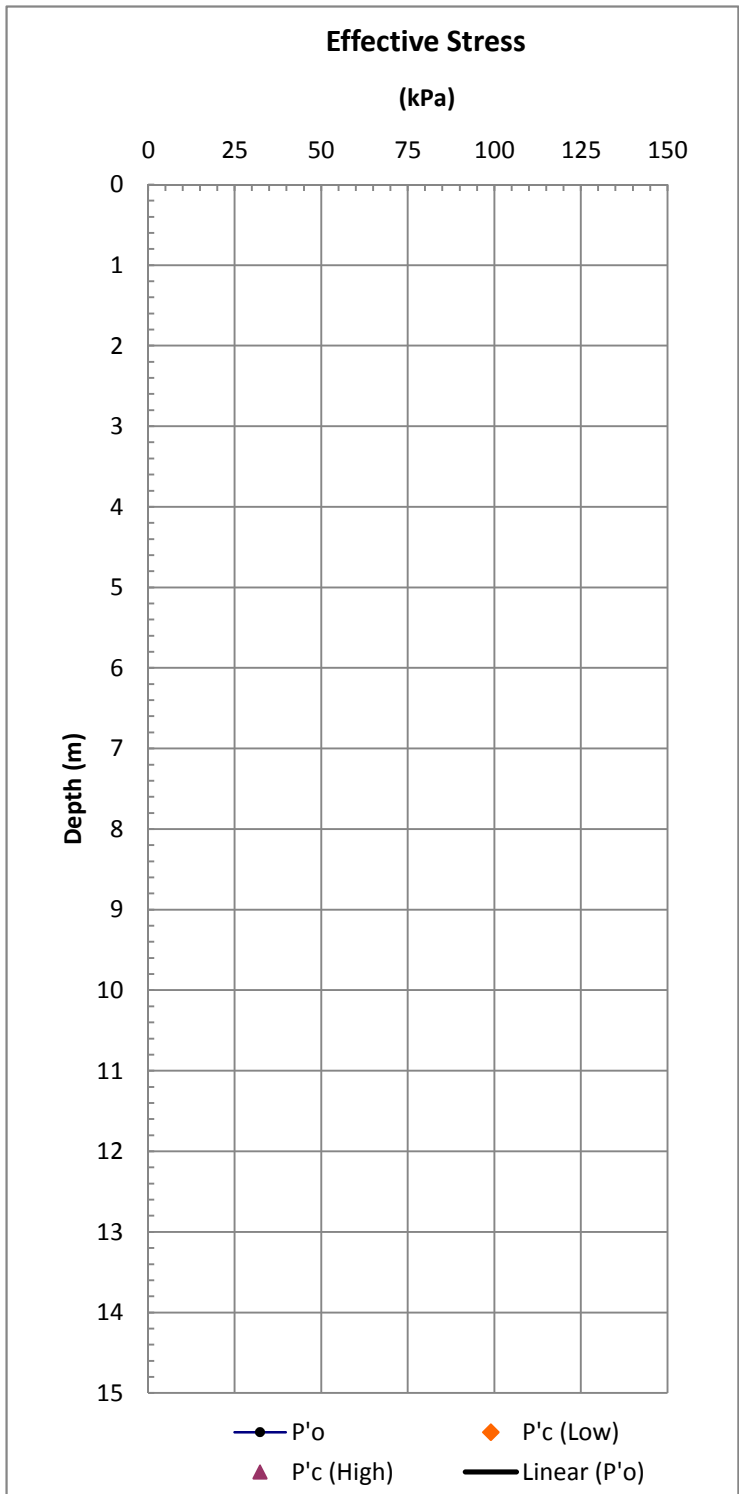
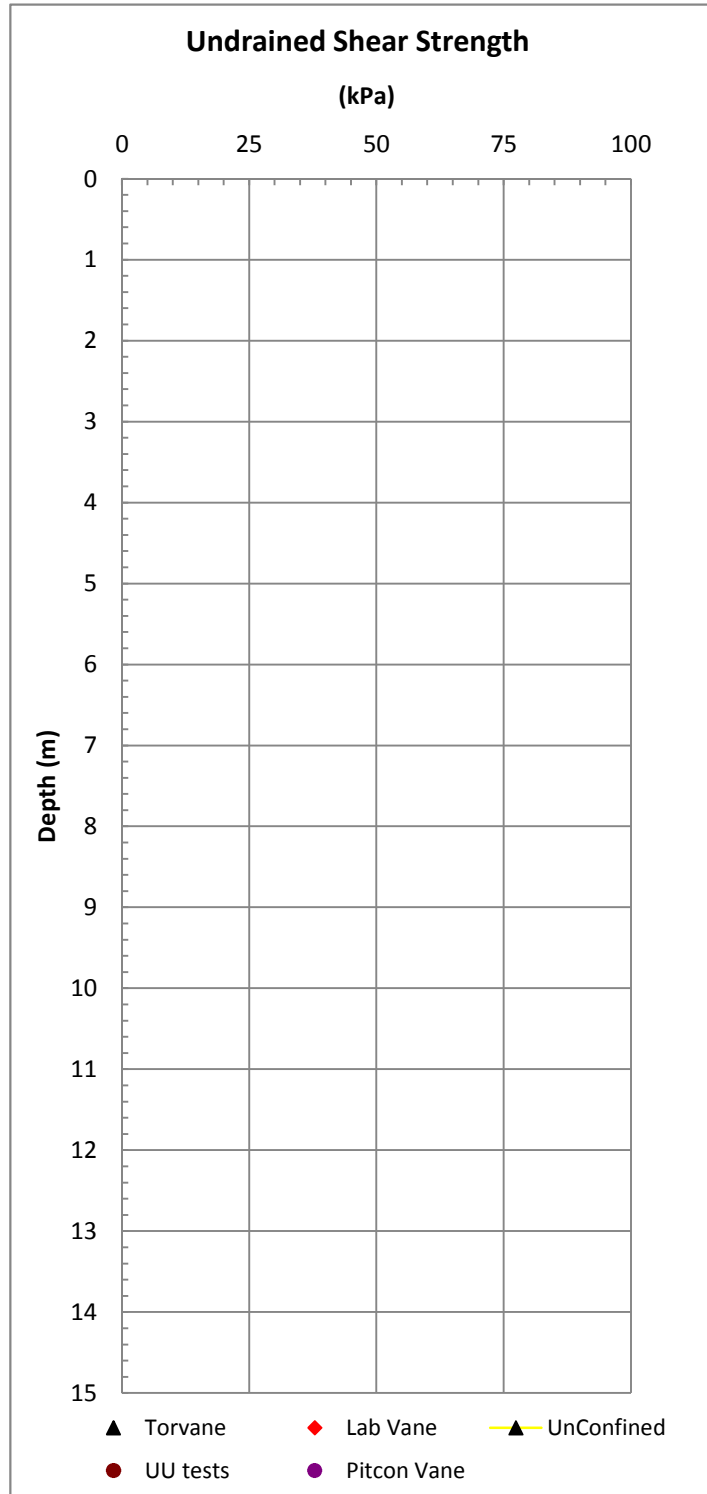
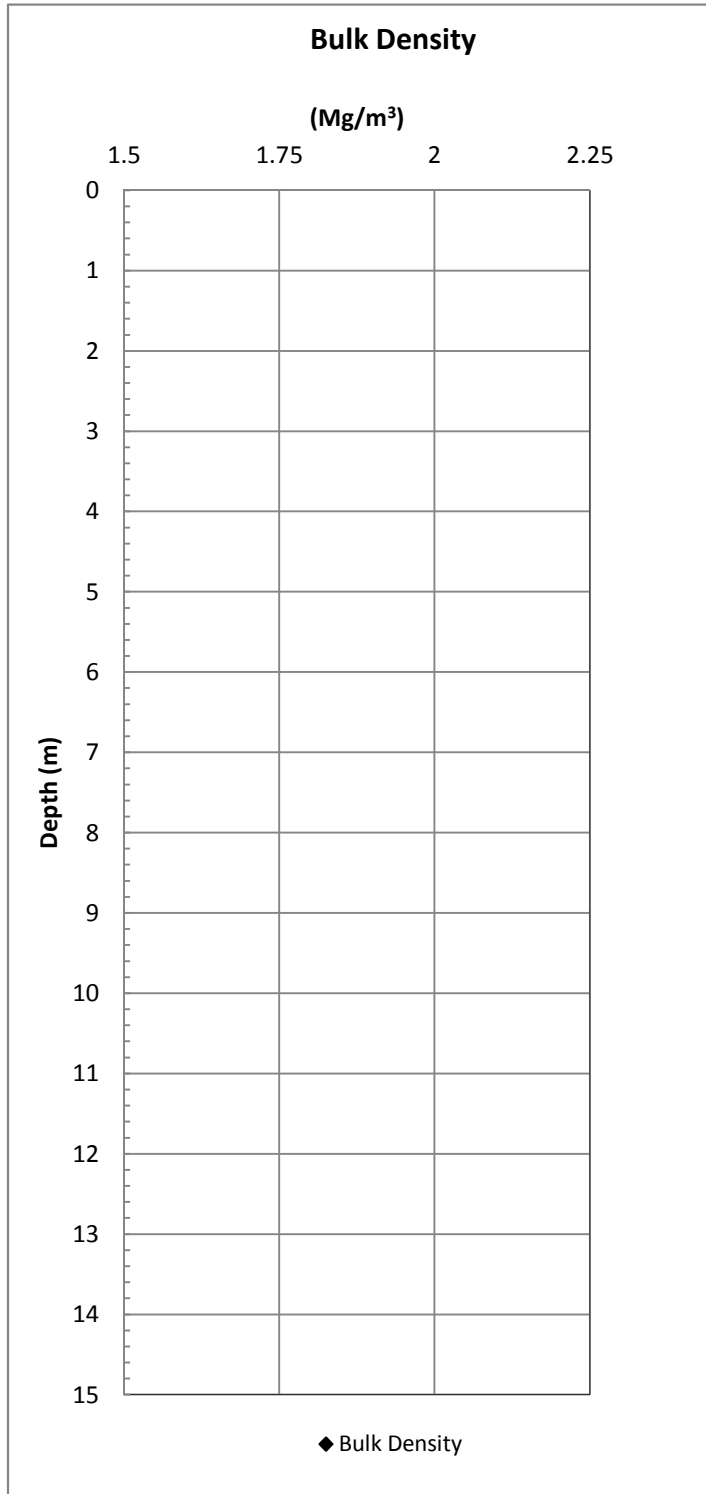
Figure C.3

10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

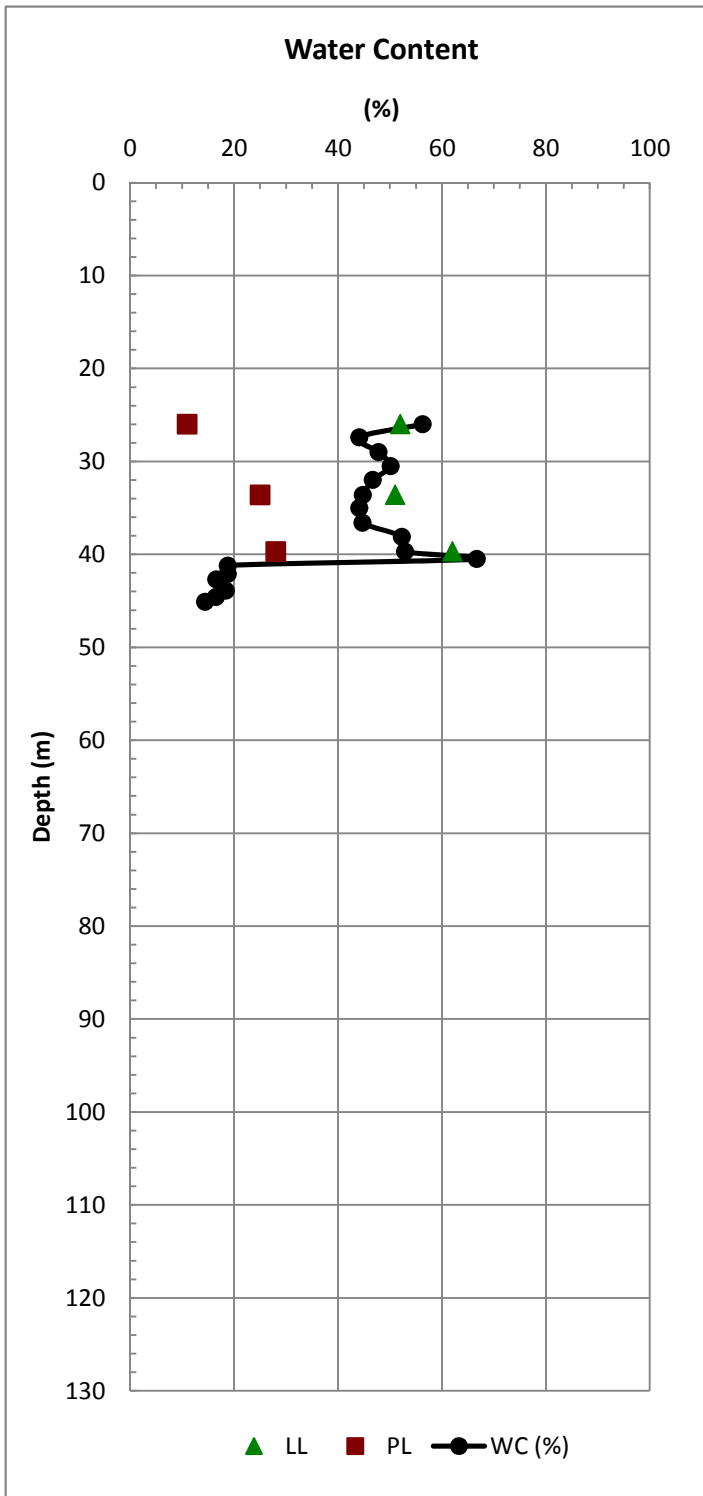
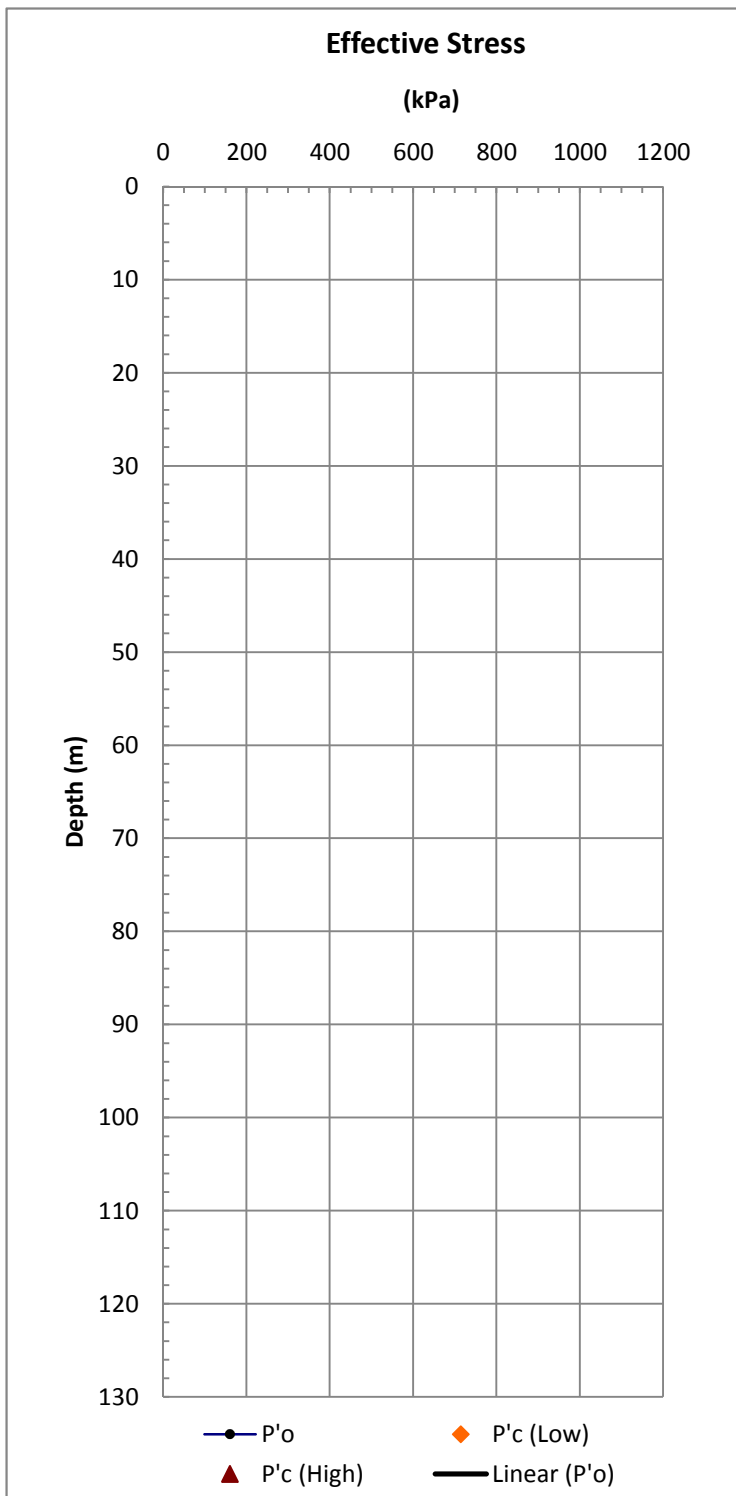
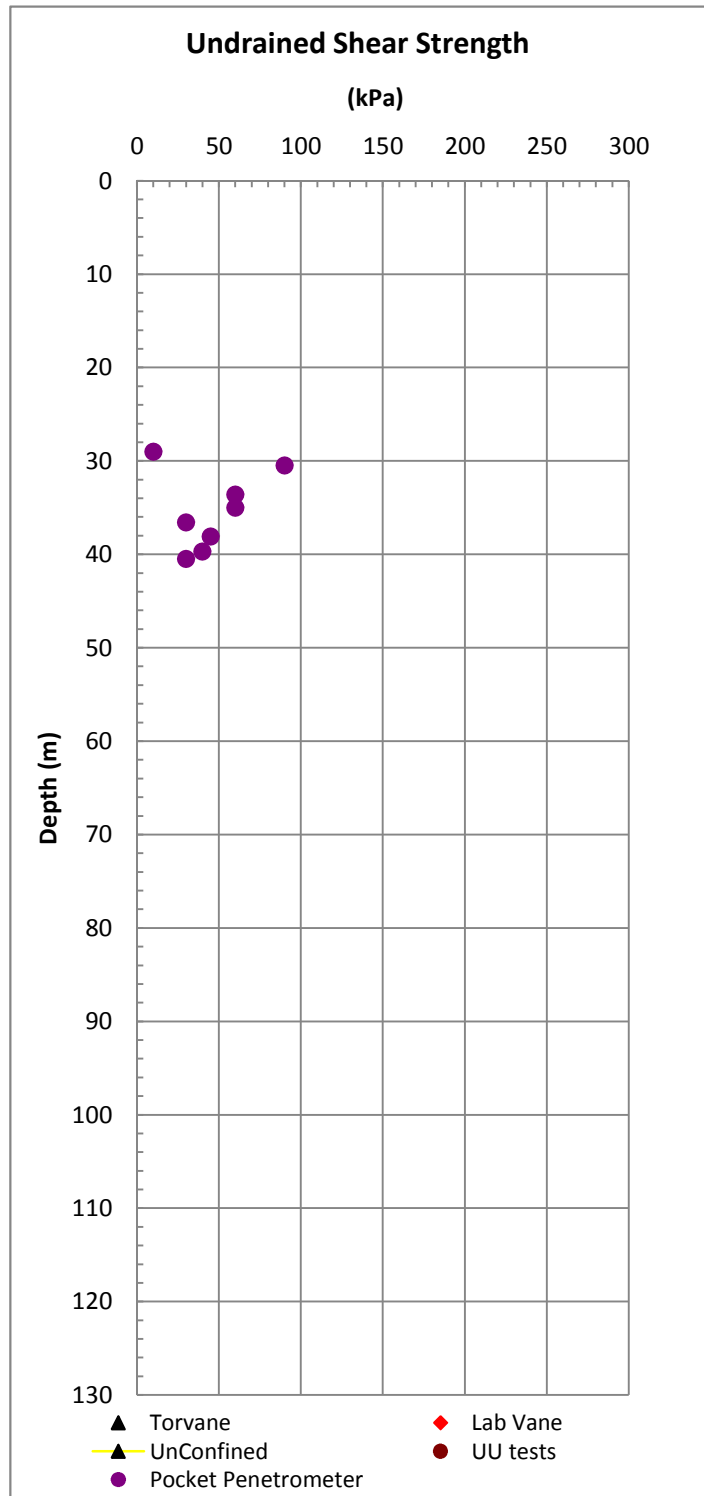
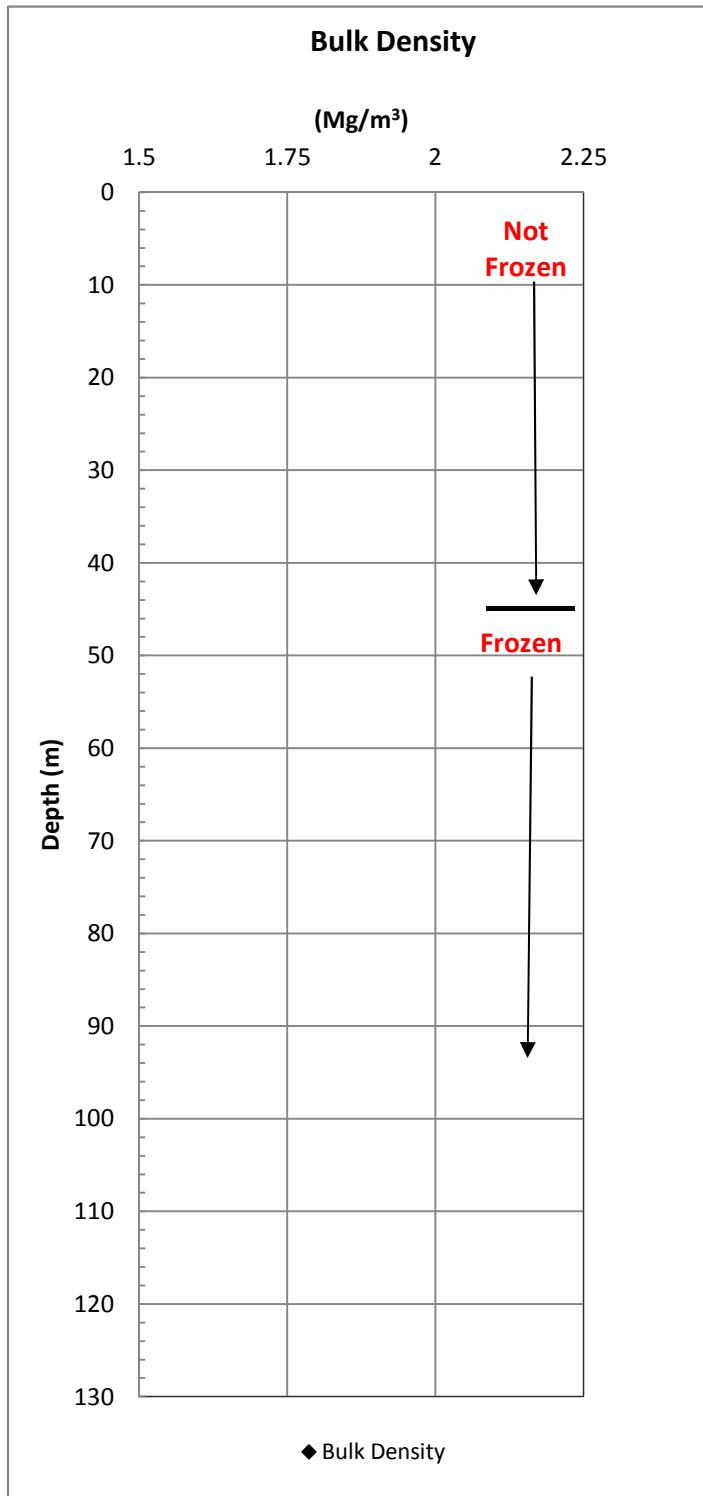


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Figure C.3

10033 Beaufort Data

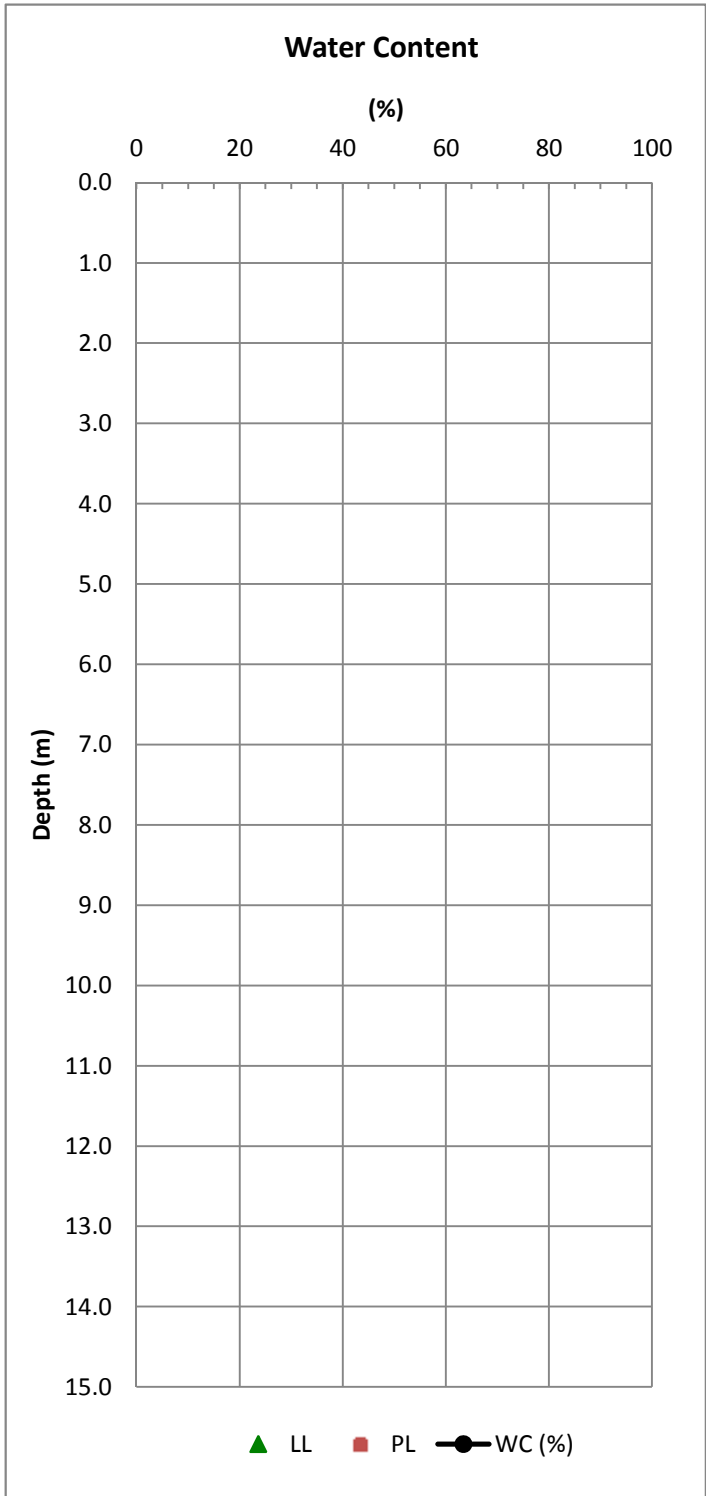
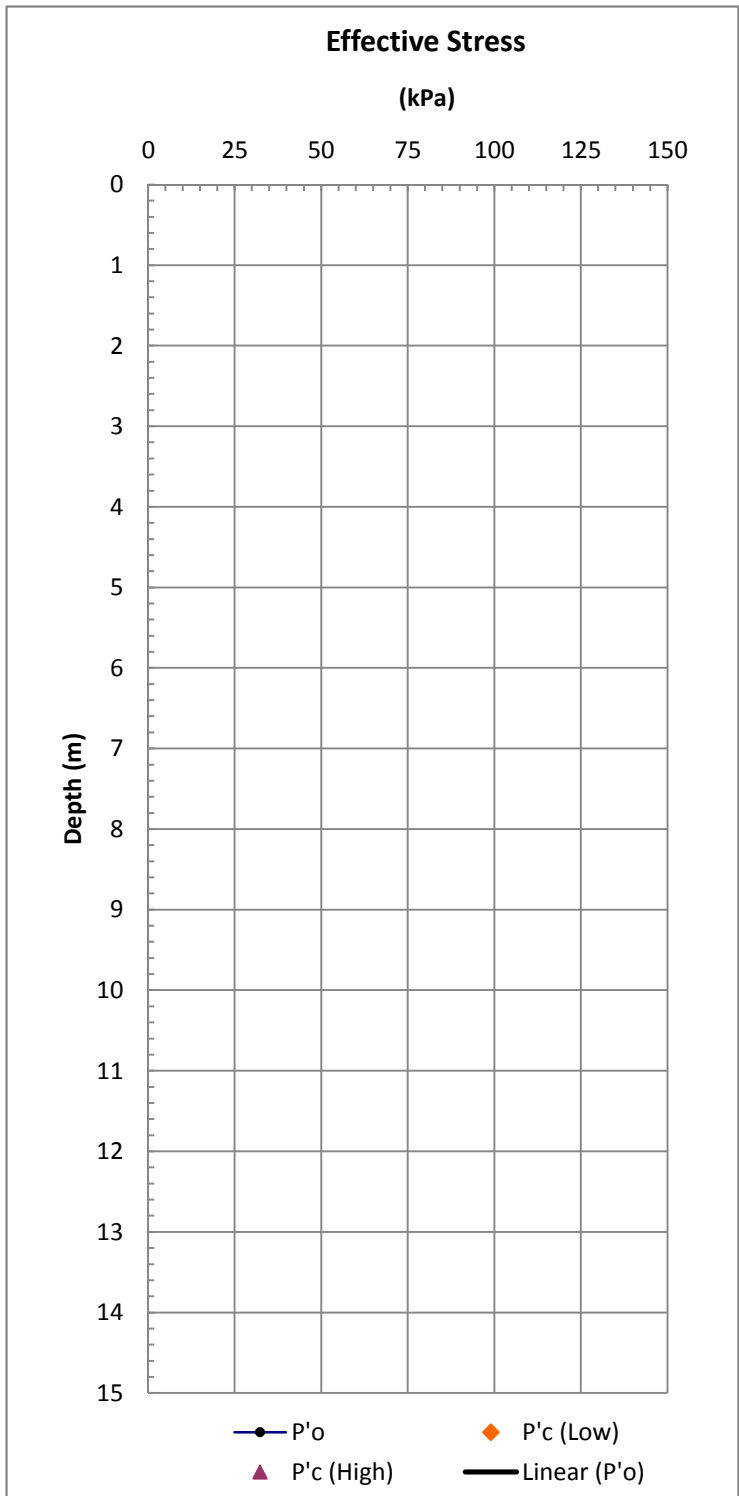
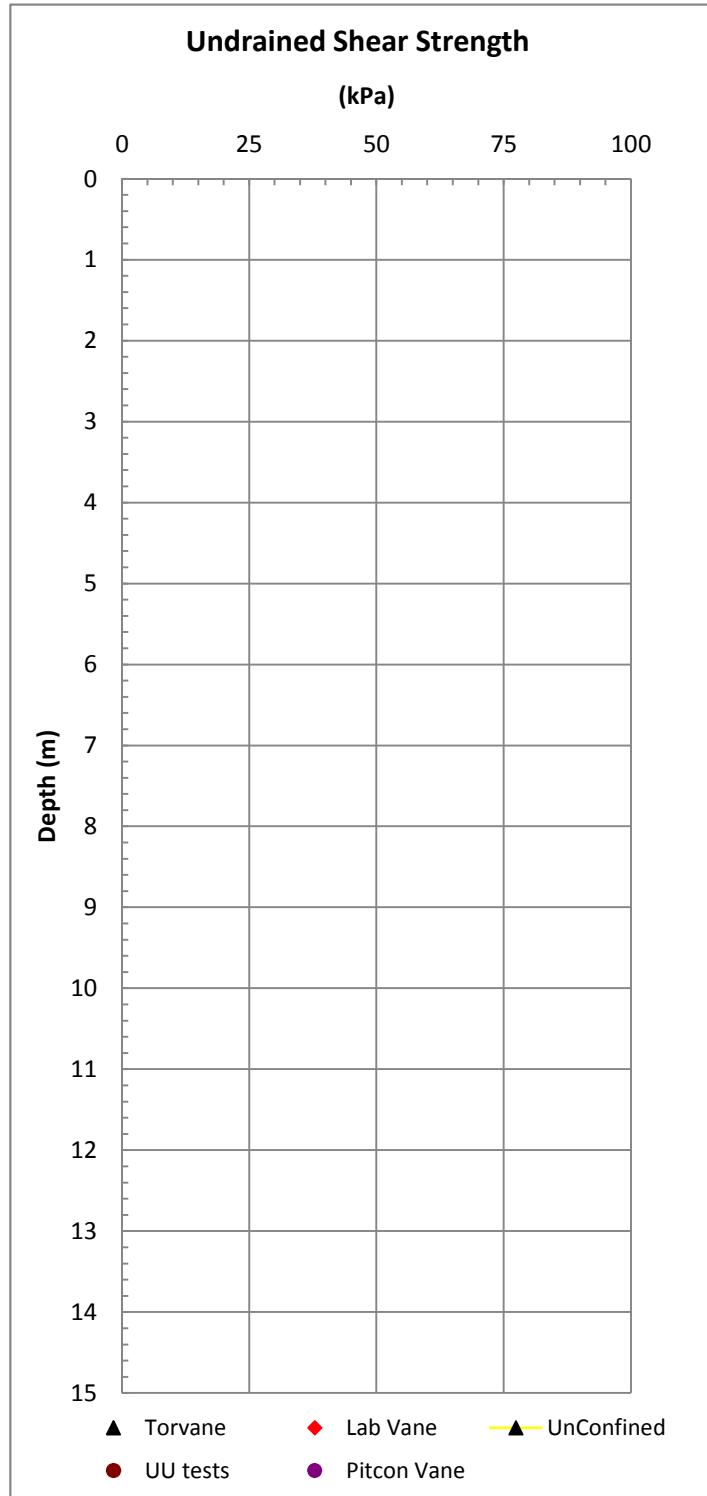
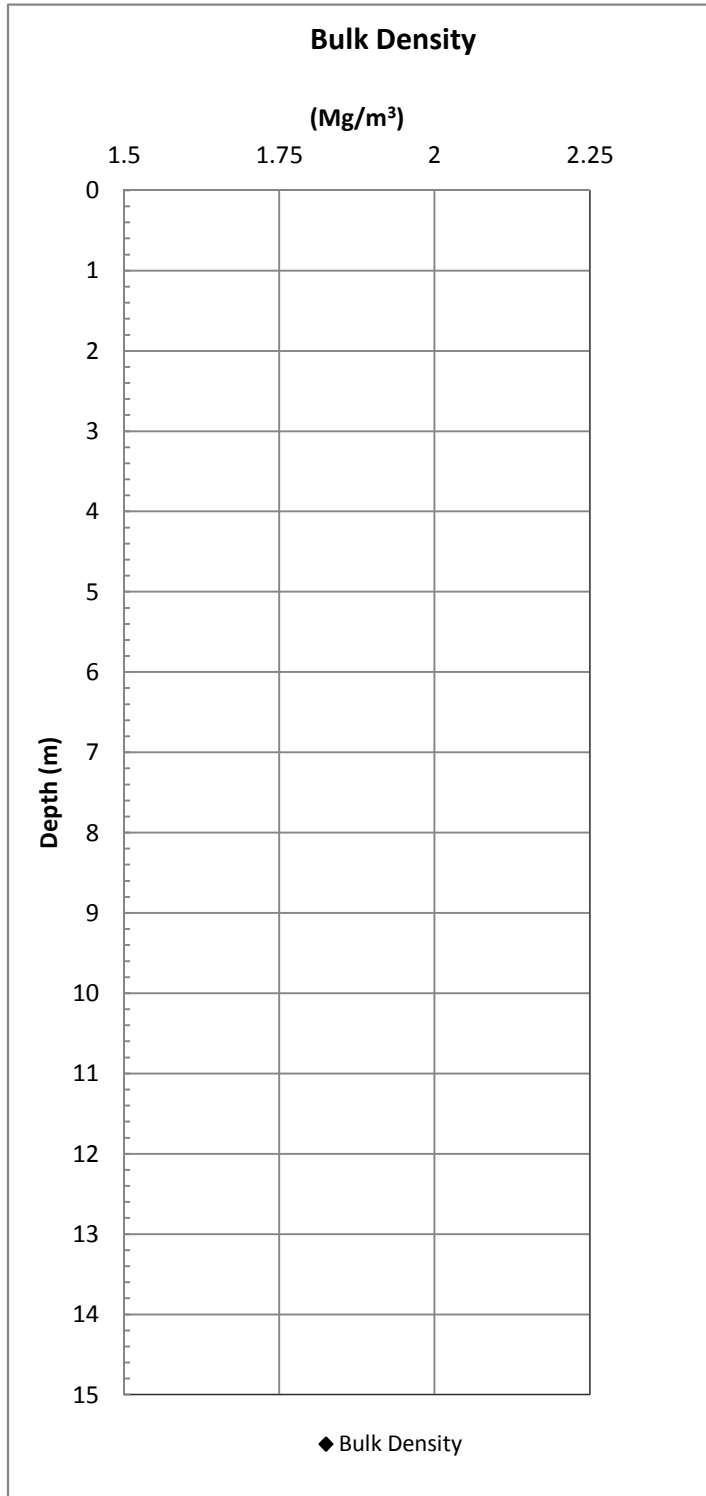


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Figure C.3

10033 Beaufort Data

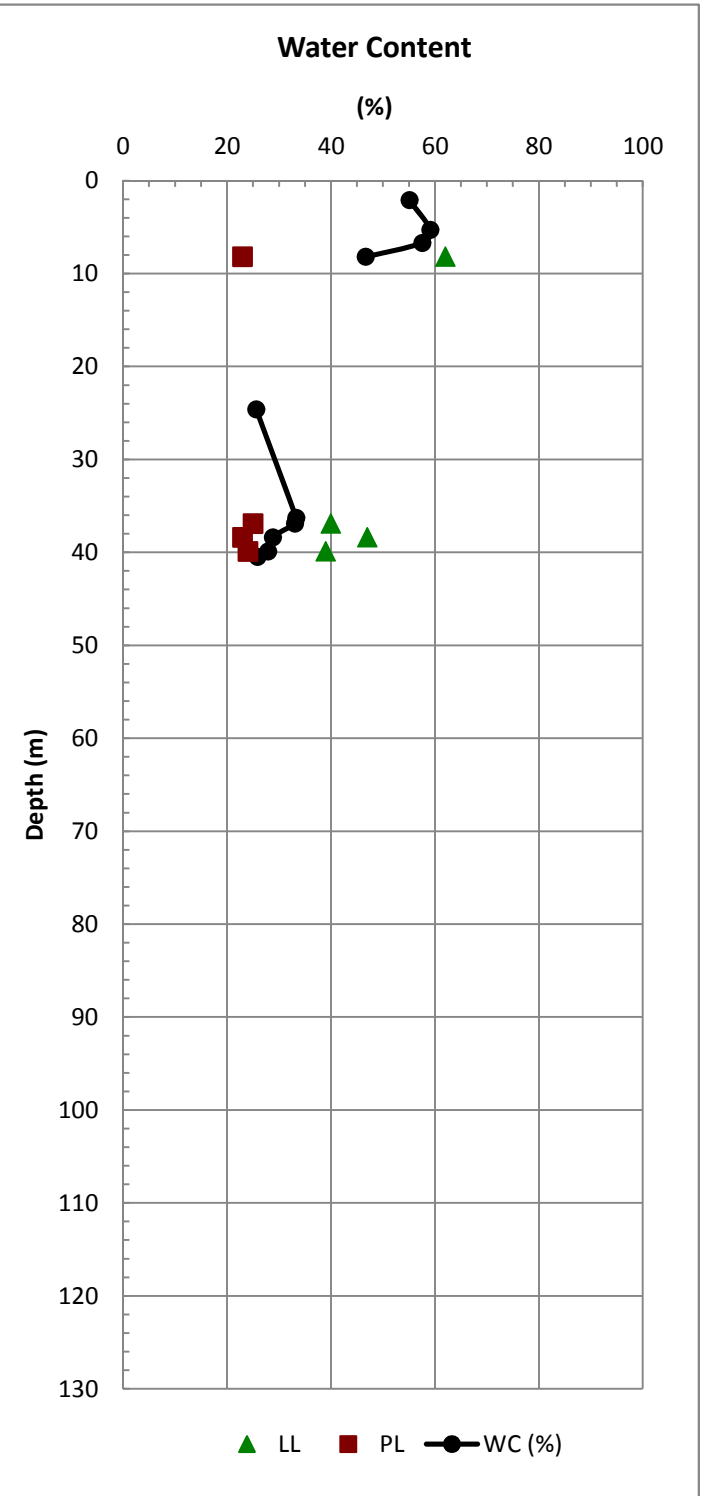
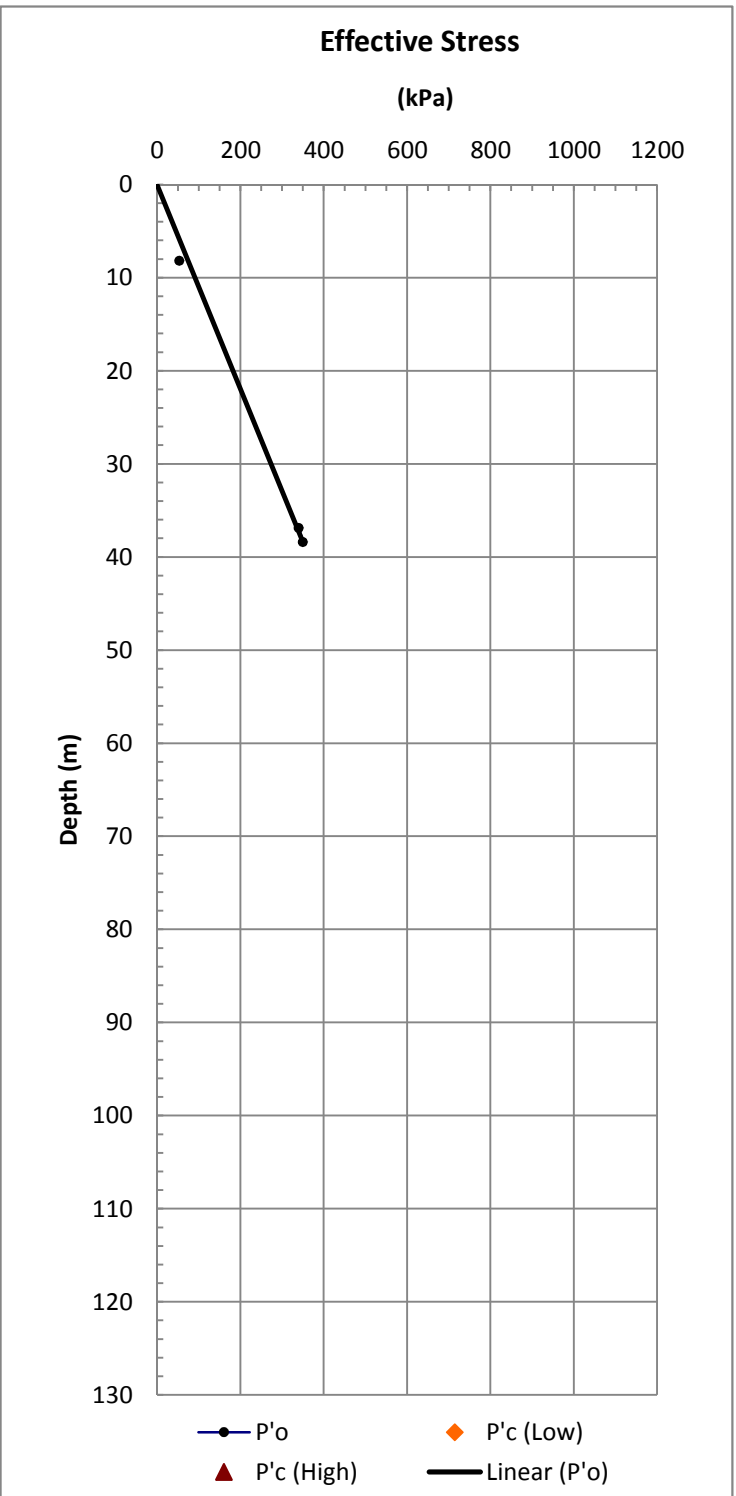
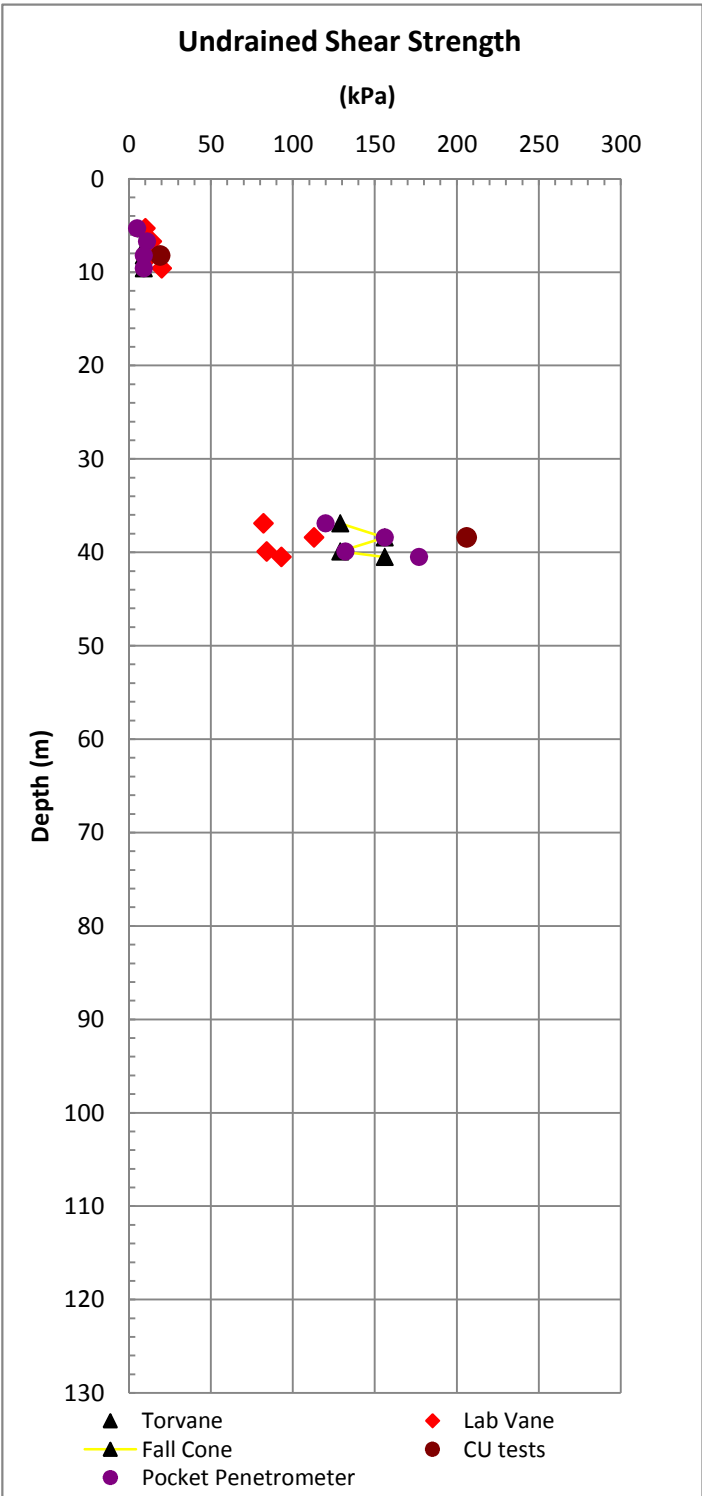
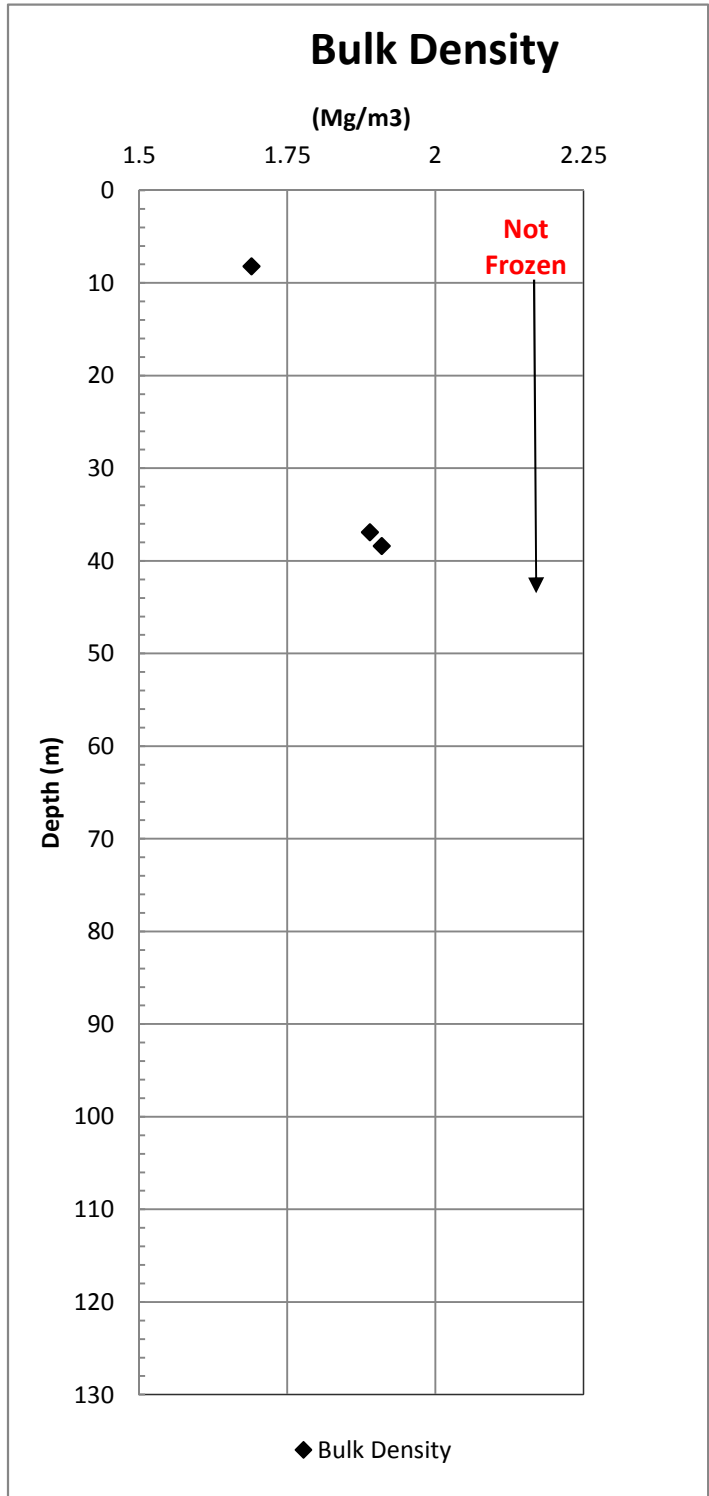


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Figure C.3

10033 Beaufort Data

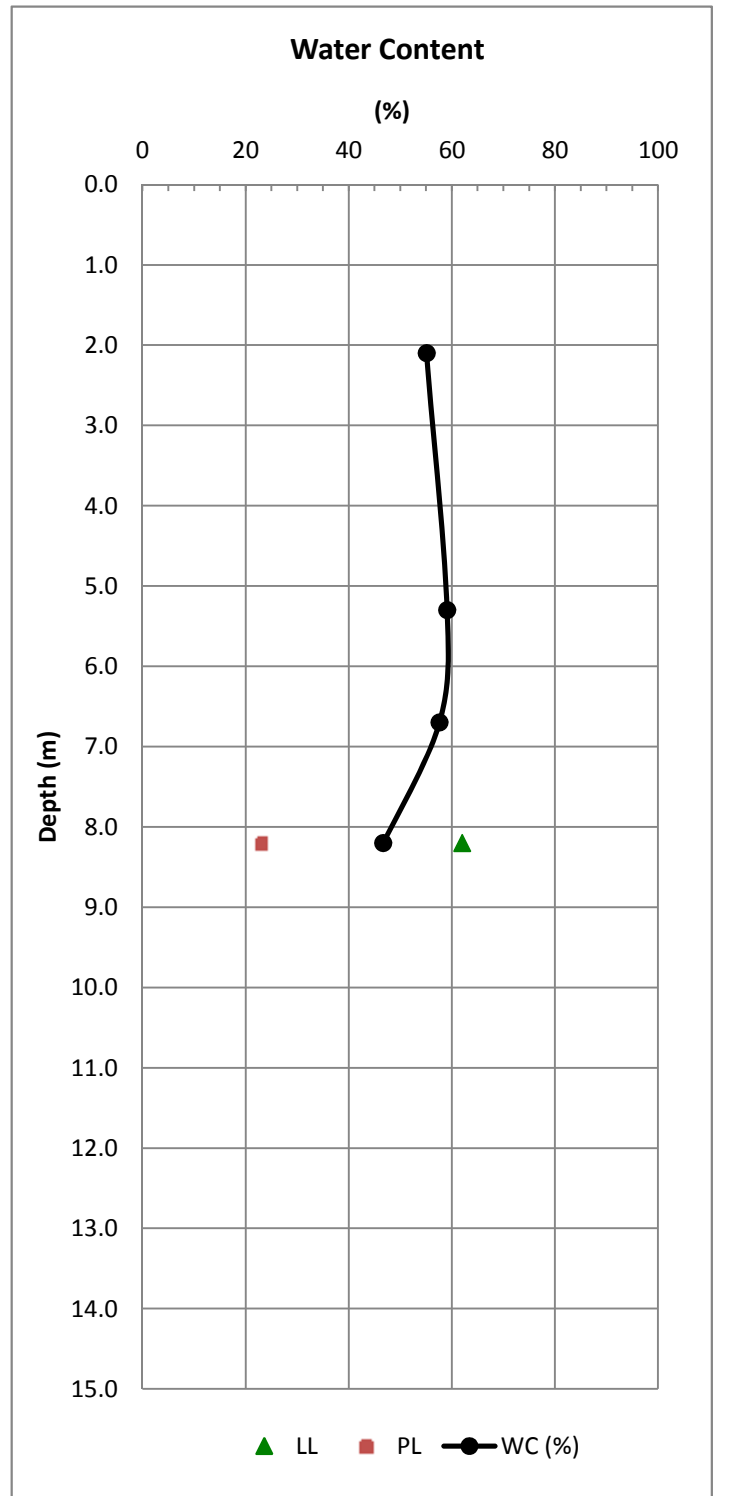
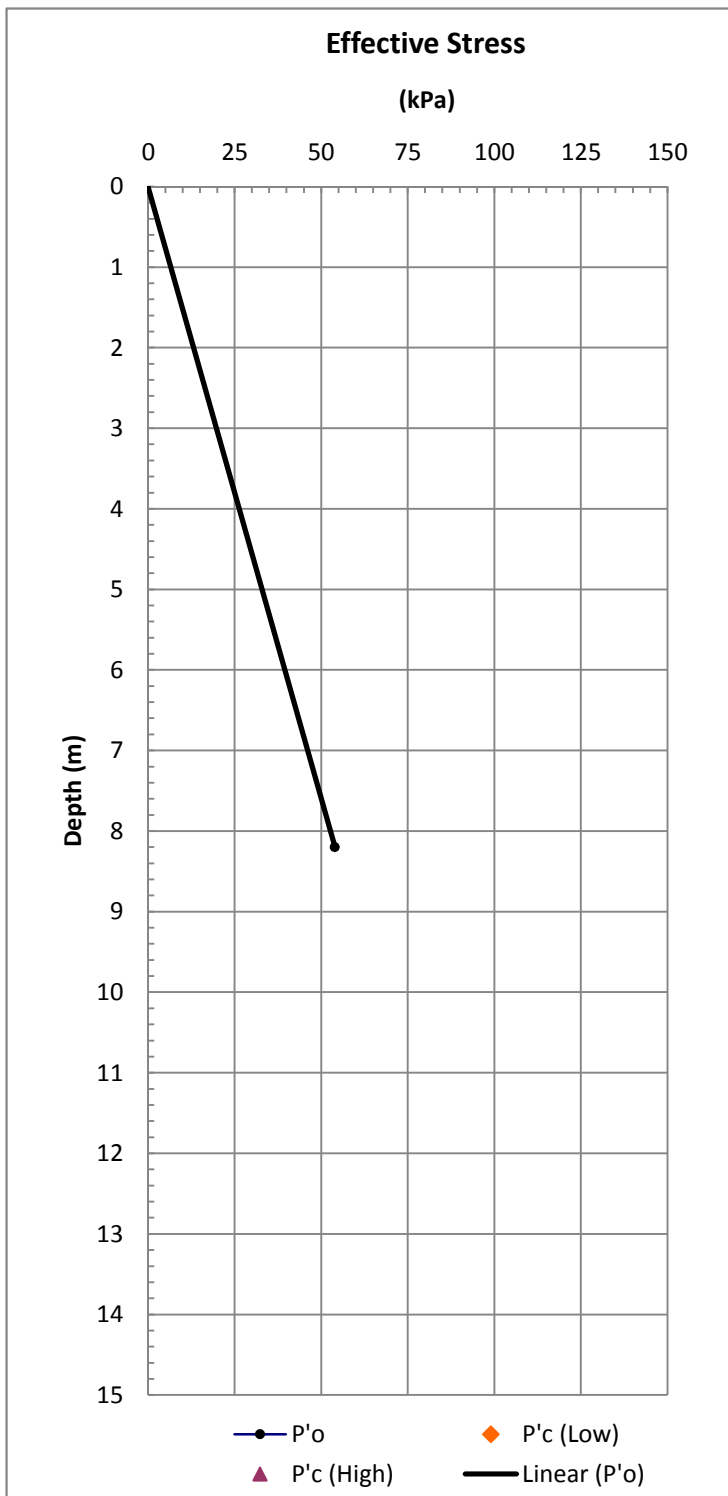
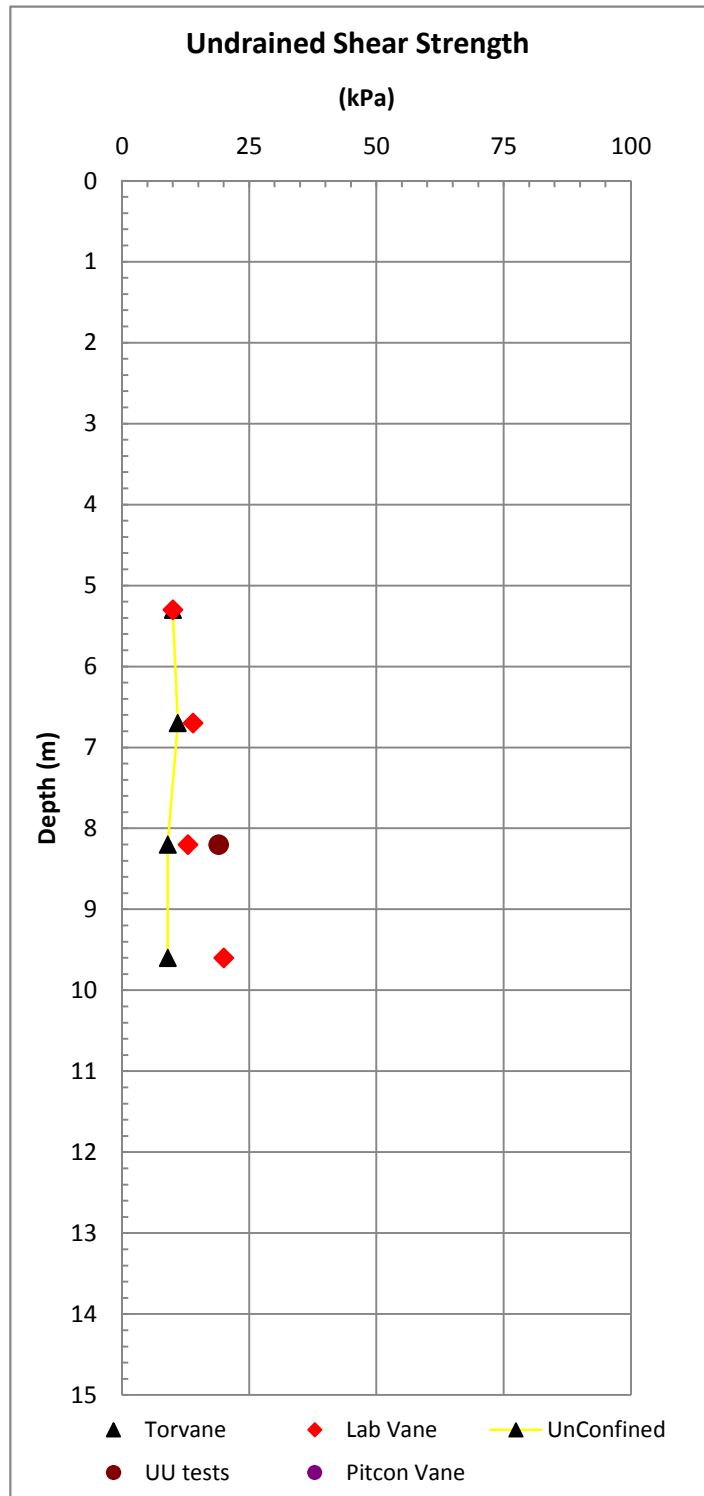
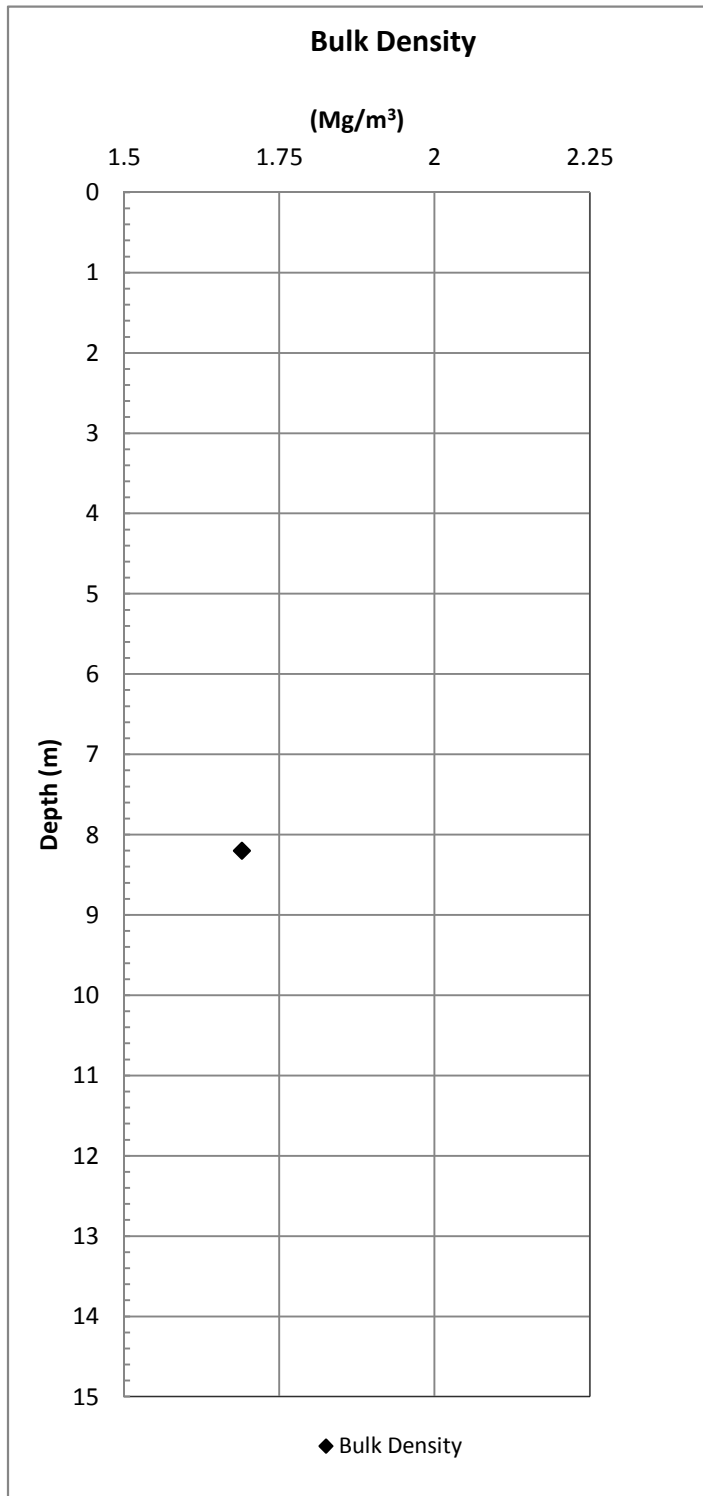


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East Amauligak BH-1

Figure C.3

10033 Beaufort Data

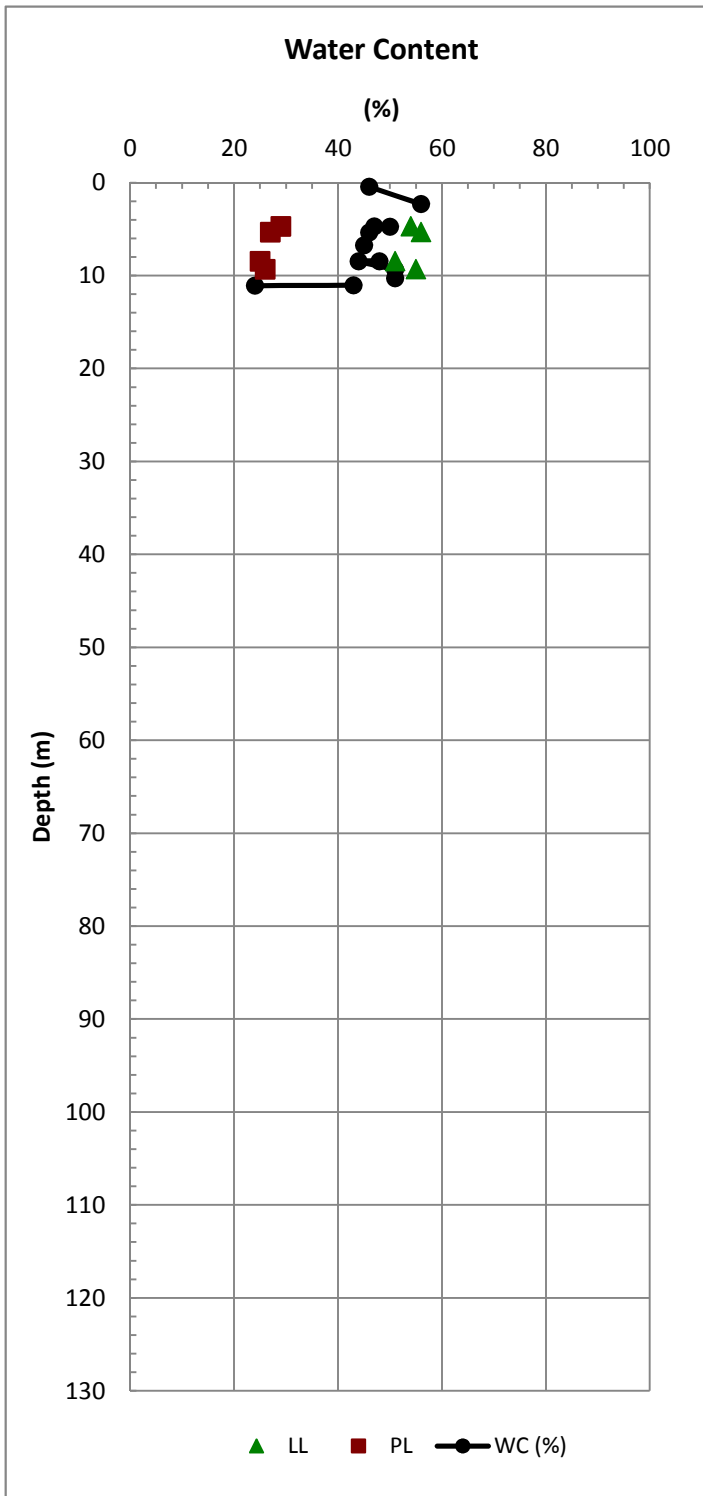
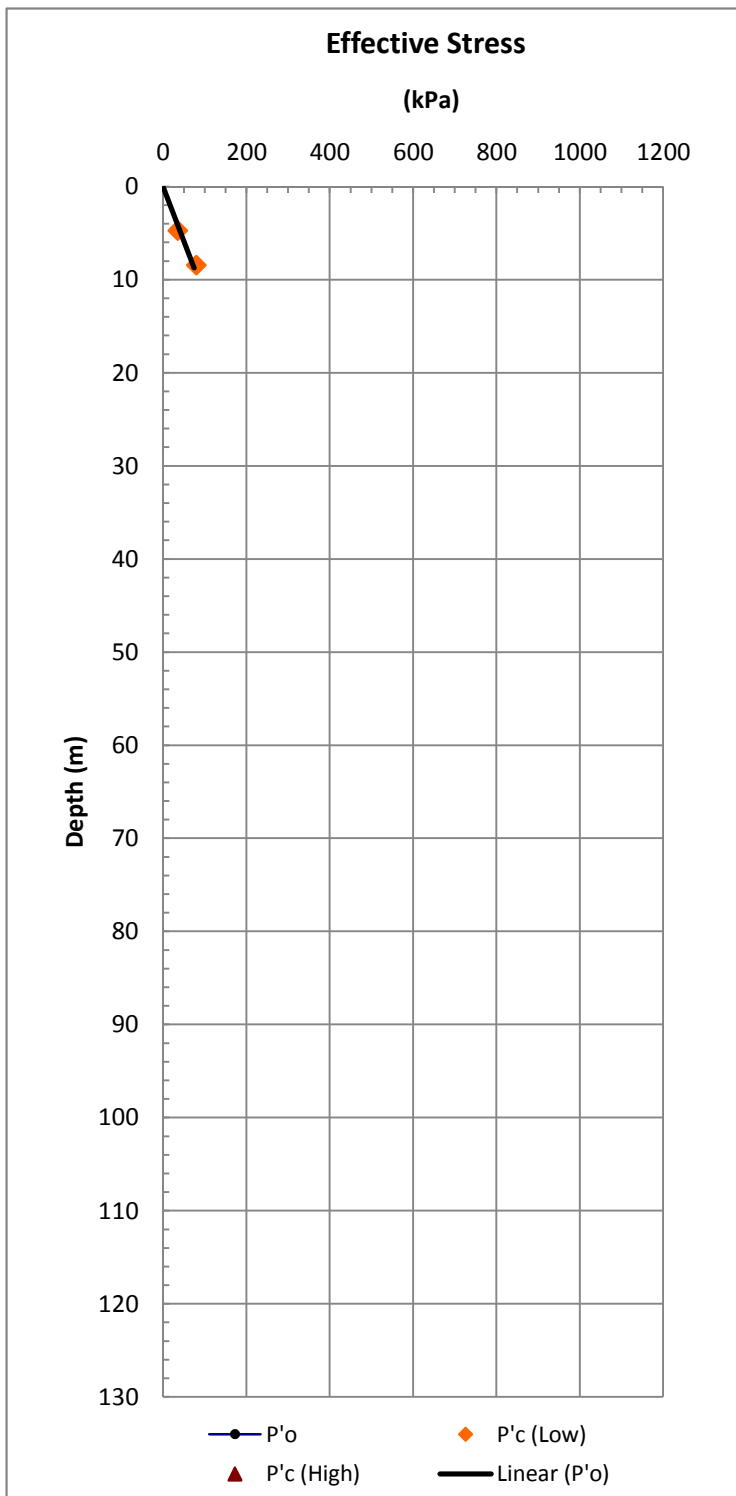
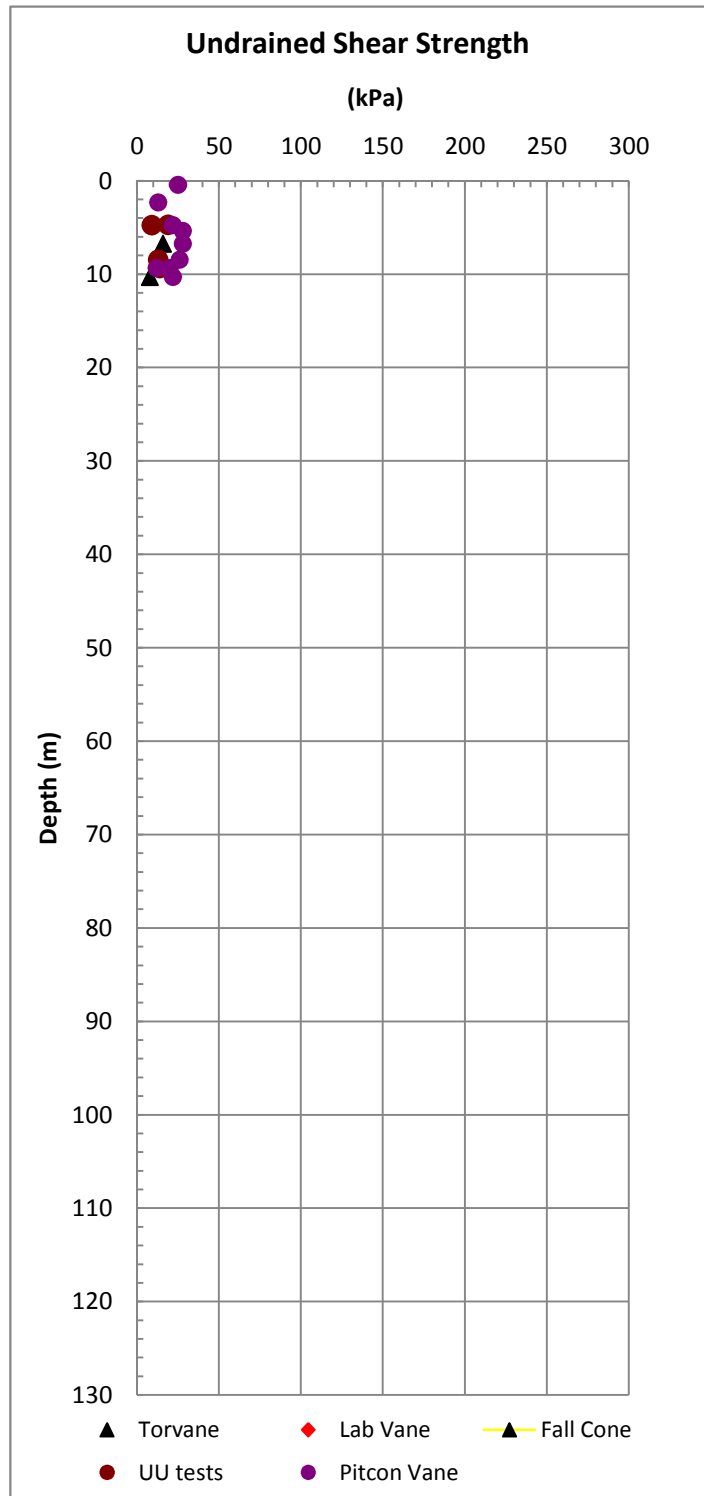
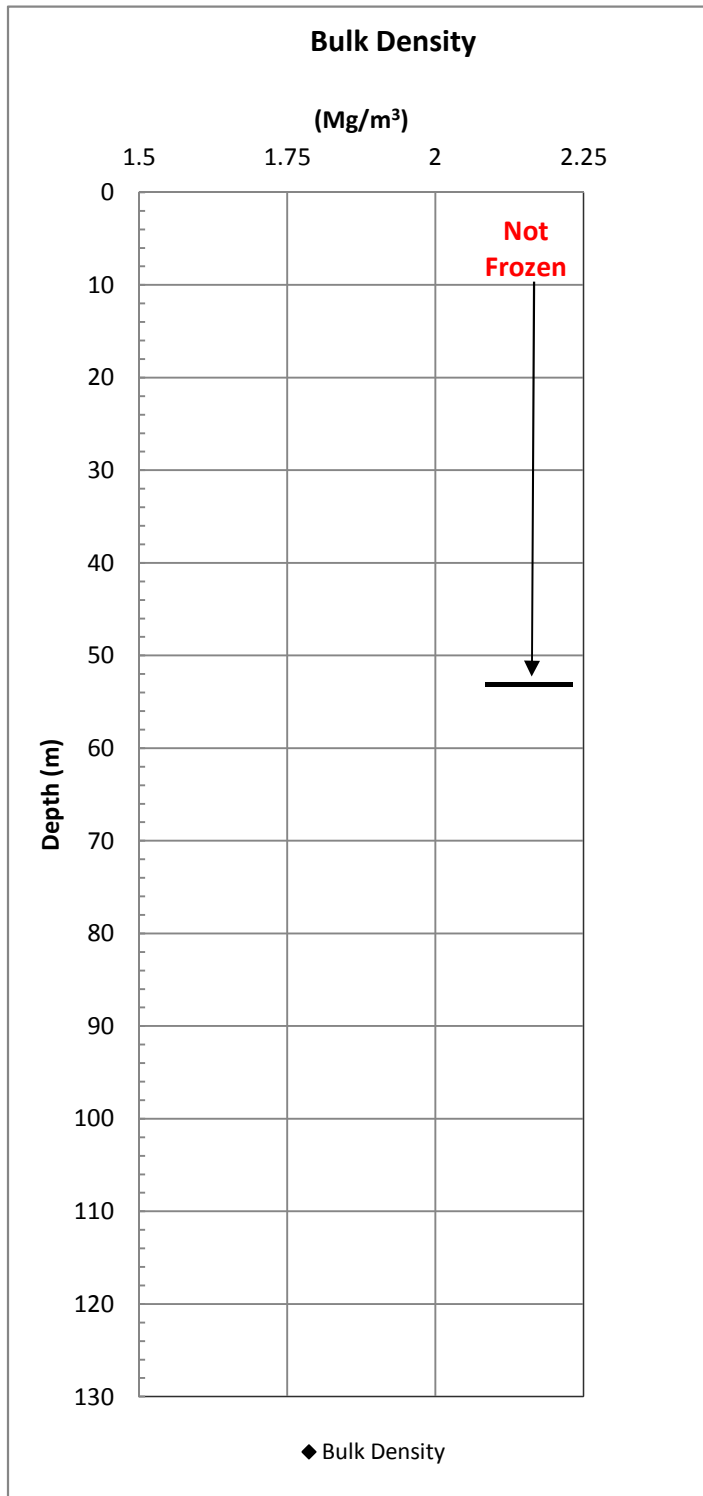


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Figure C.3

10033 Beaufort Data

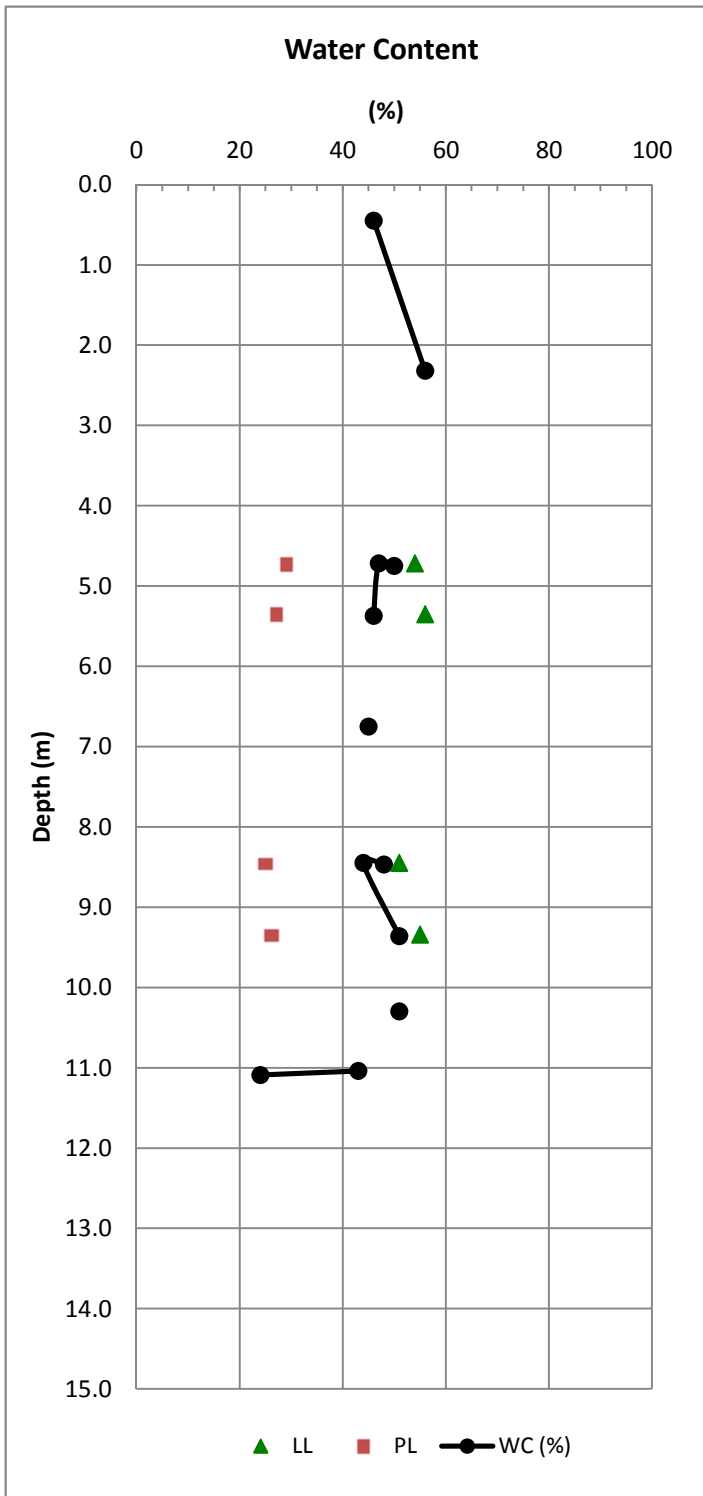
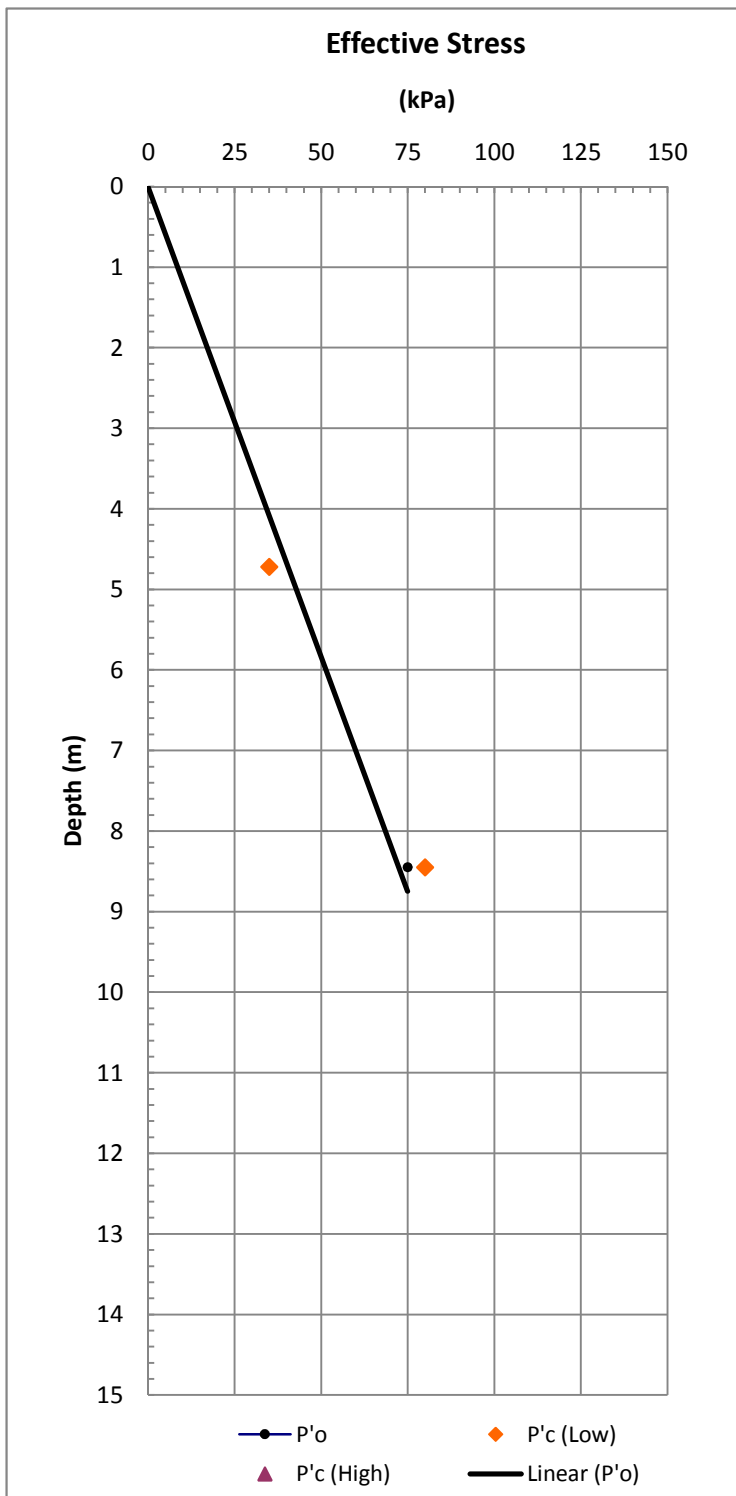
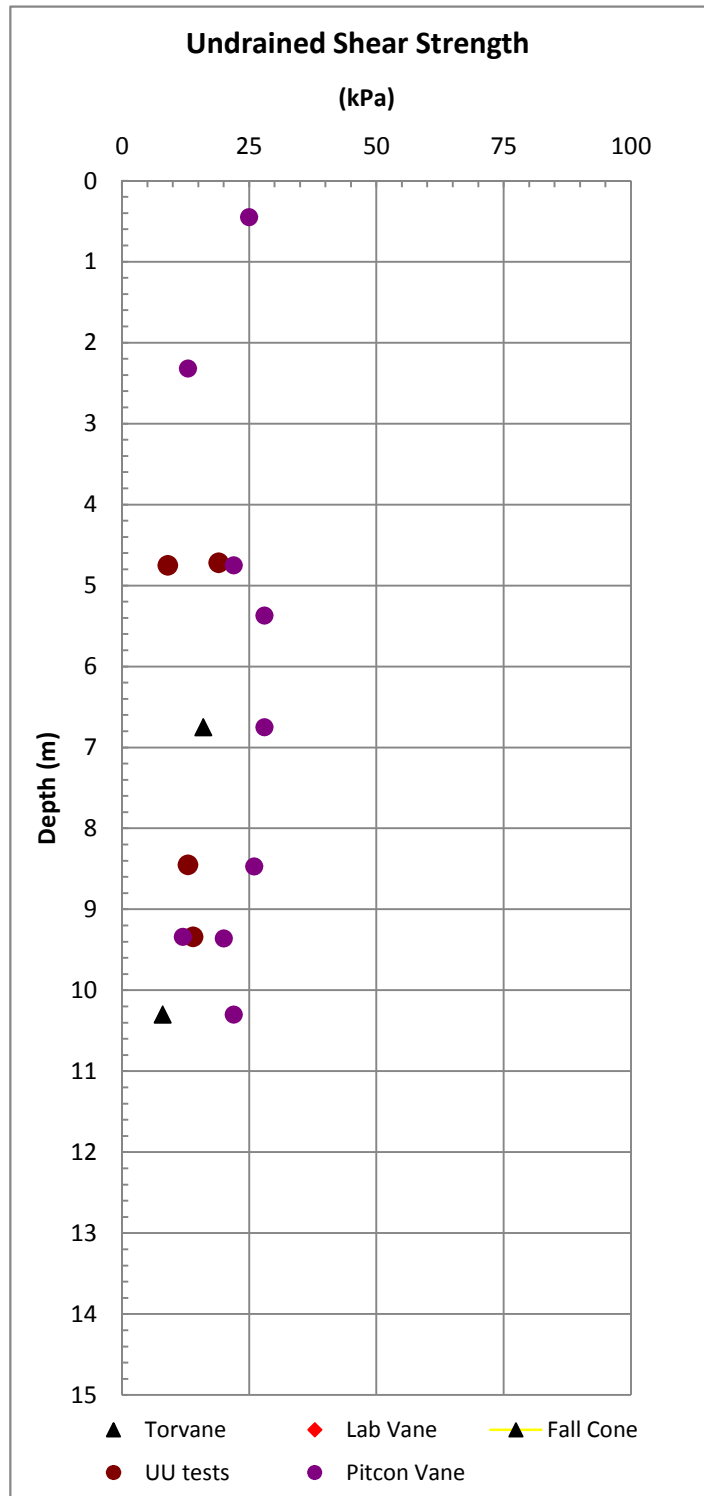
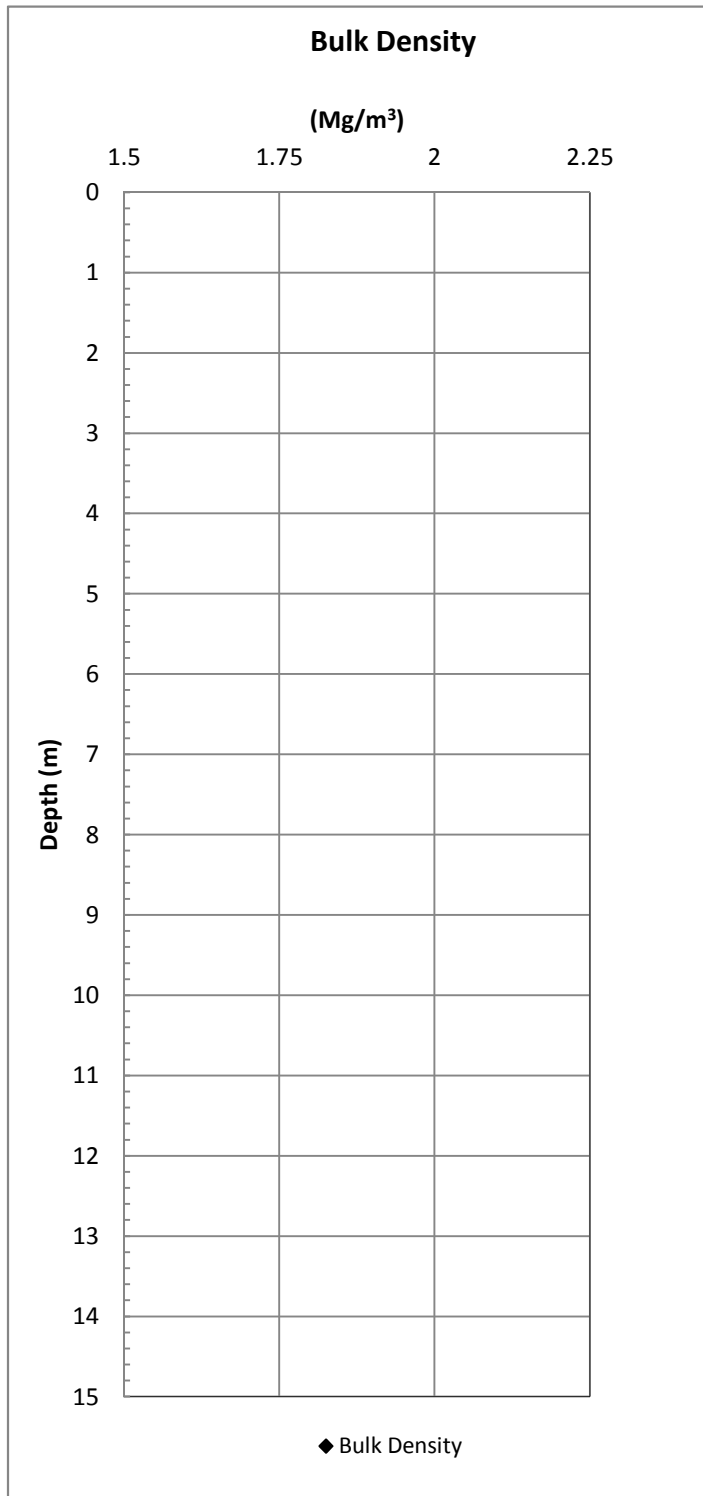


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East Amuligak EA82S01

Figure C.3

10033 Beaufort Data

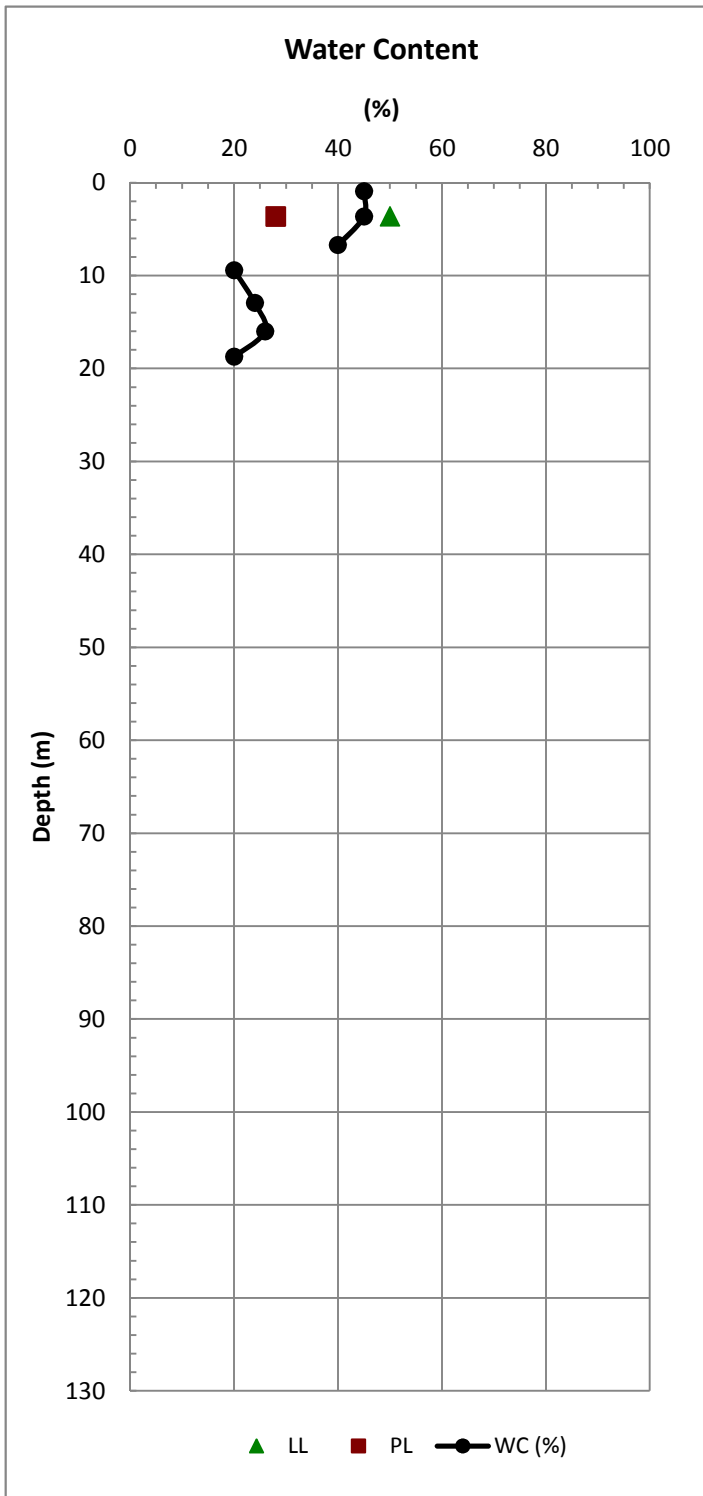
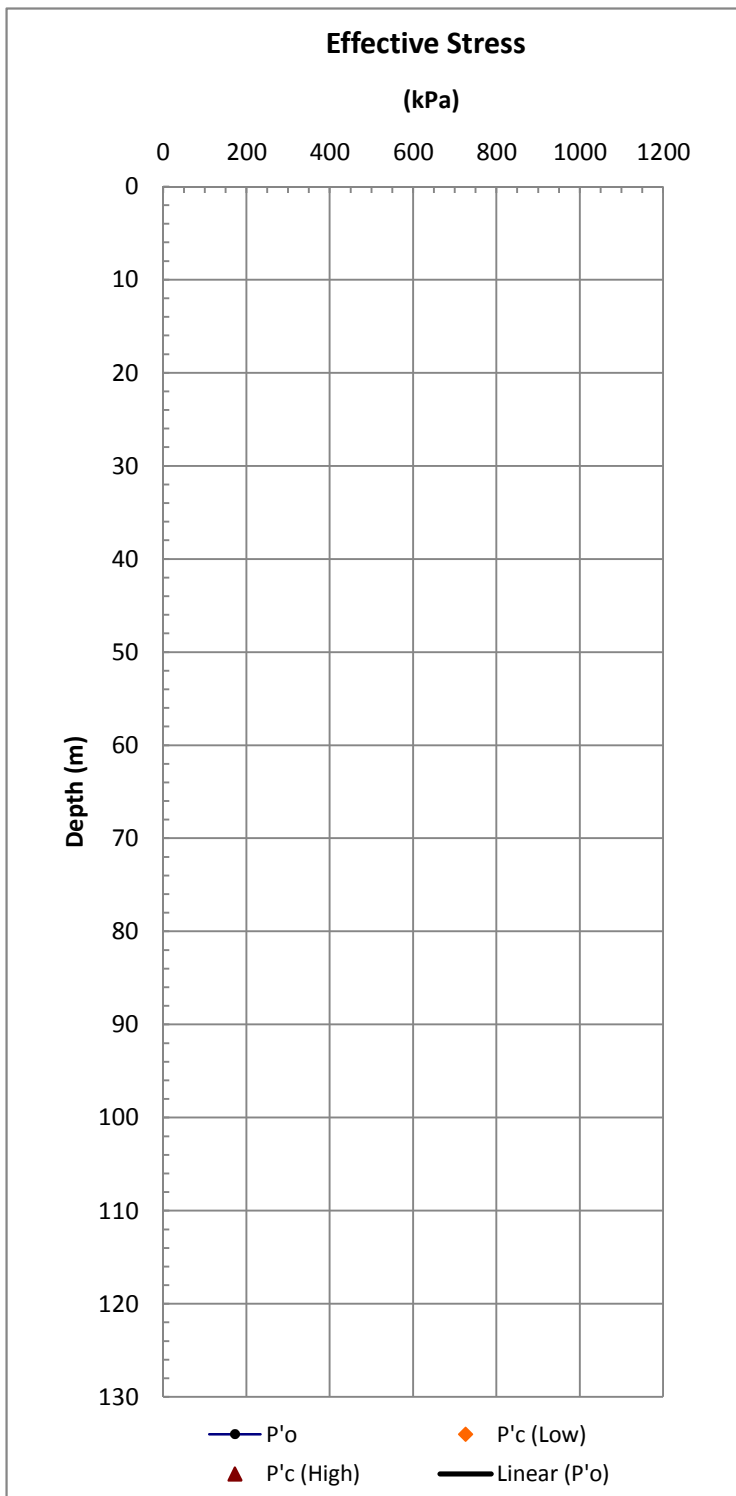
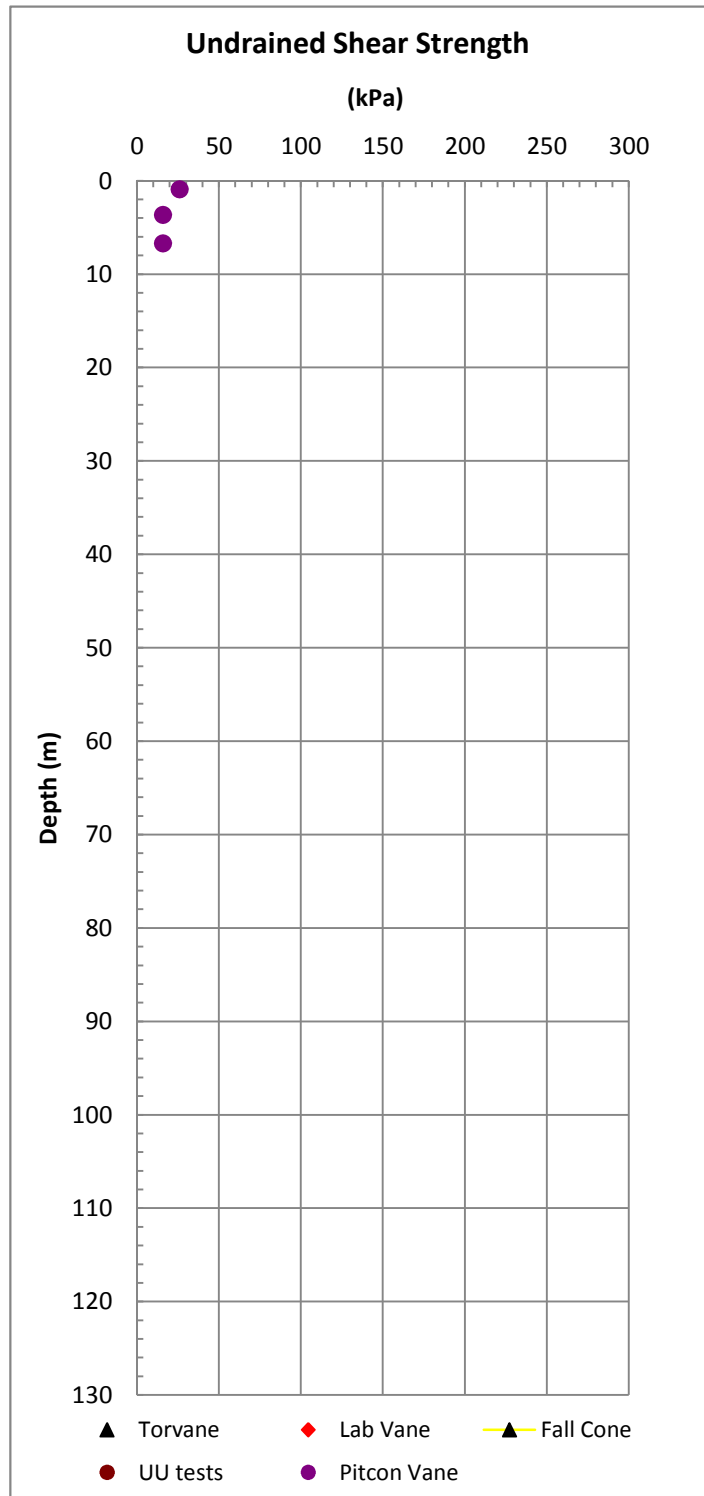
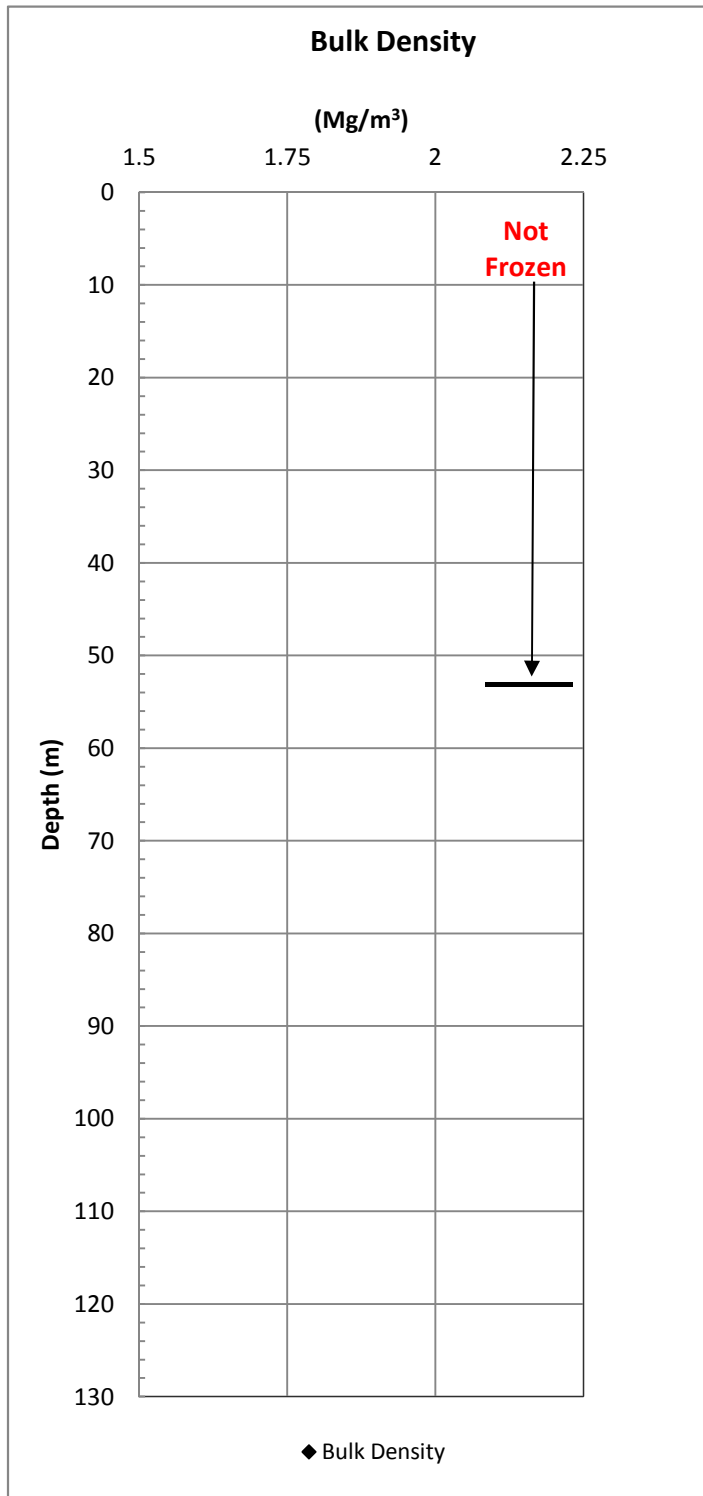


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East Amauligak EA82S01

Figure C.3

10033 Beaufort Data

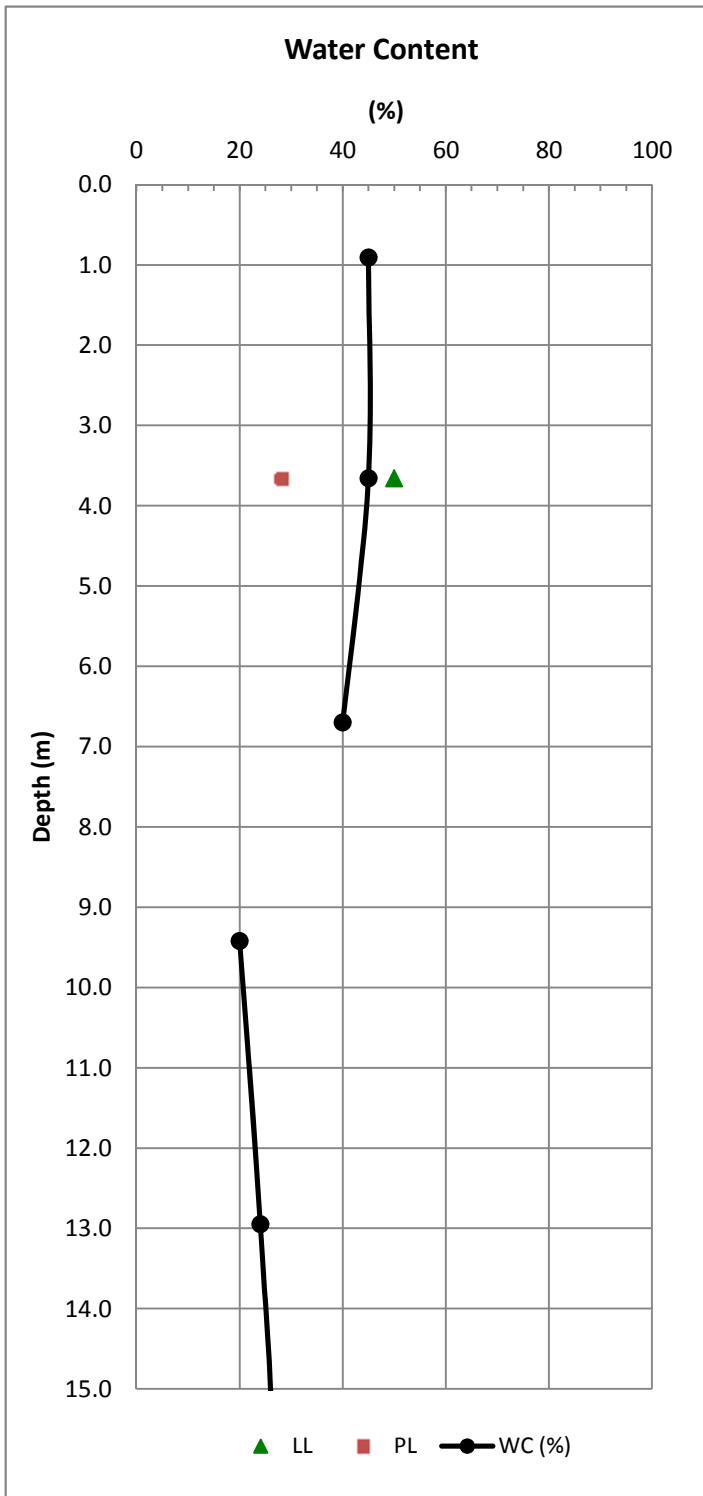
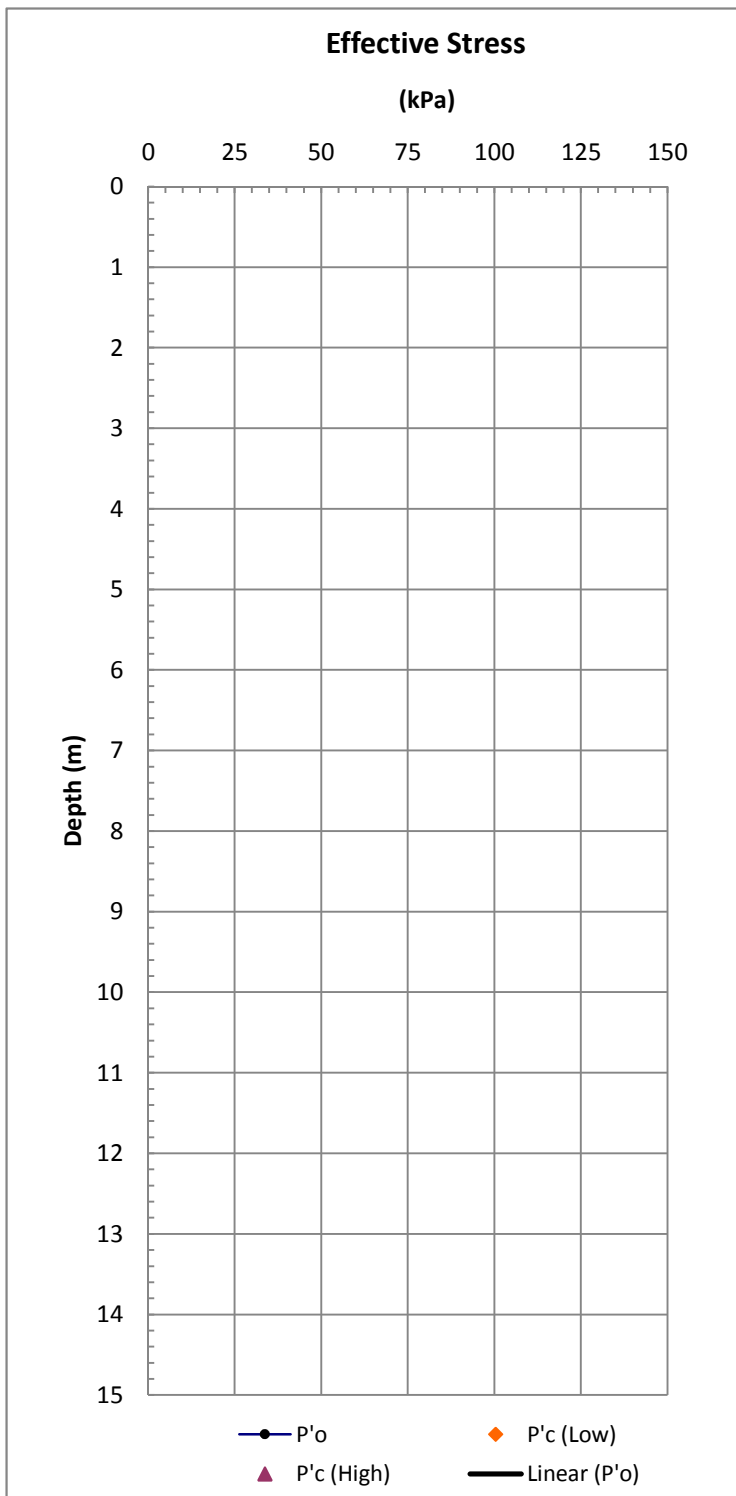
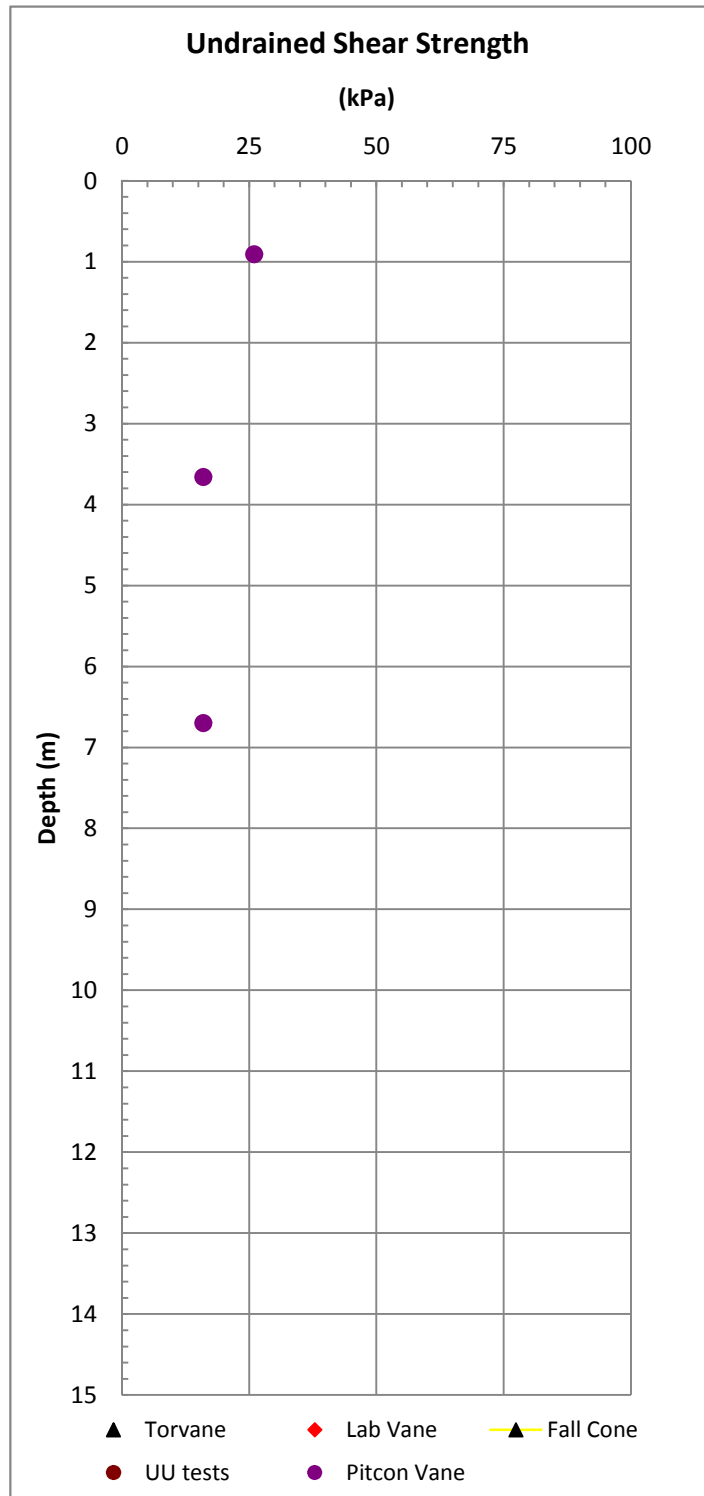
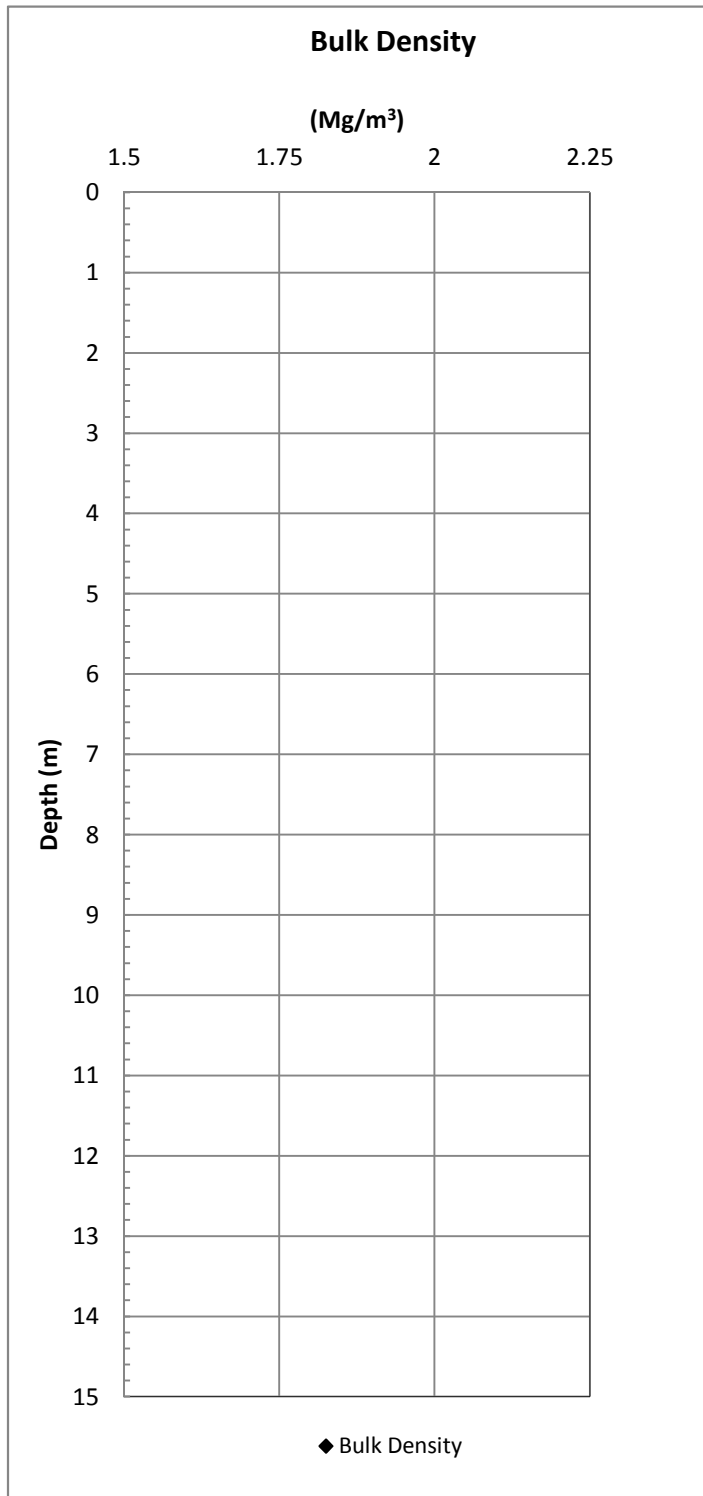


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East Amauligak EA83S01

Figure C.3

10033 Beaufort Data

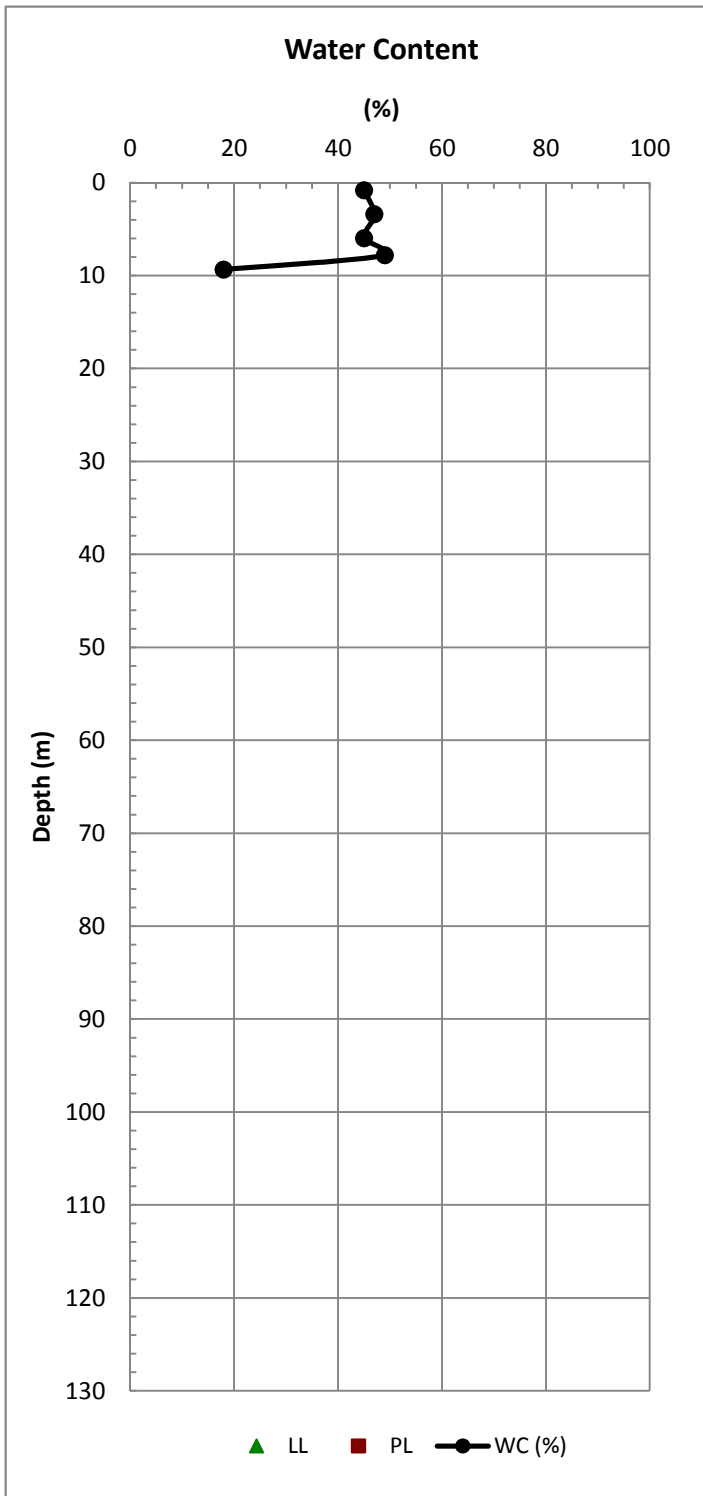
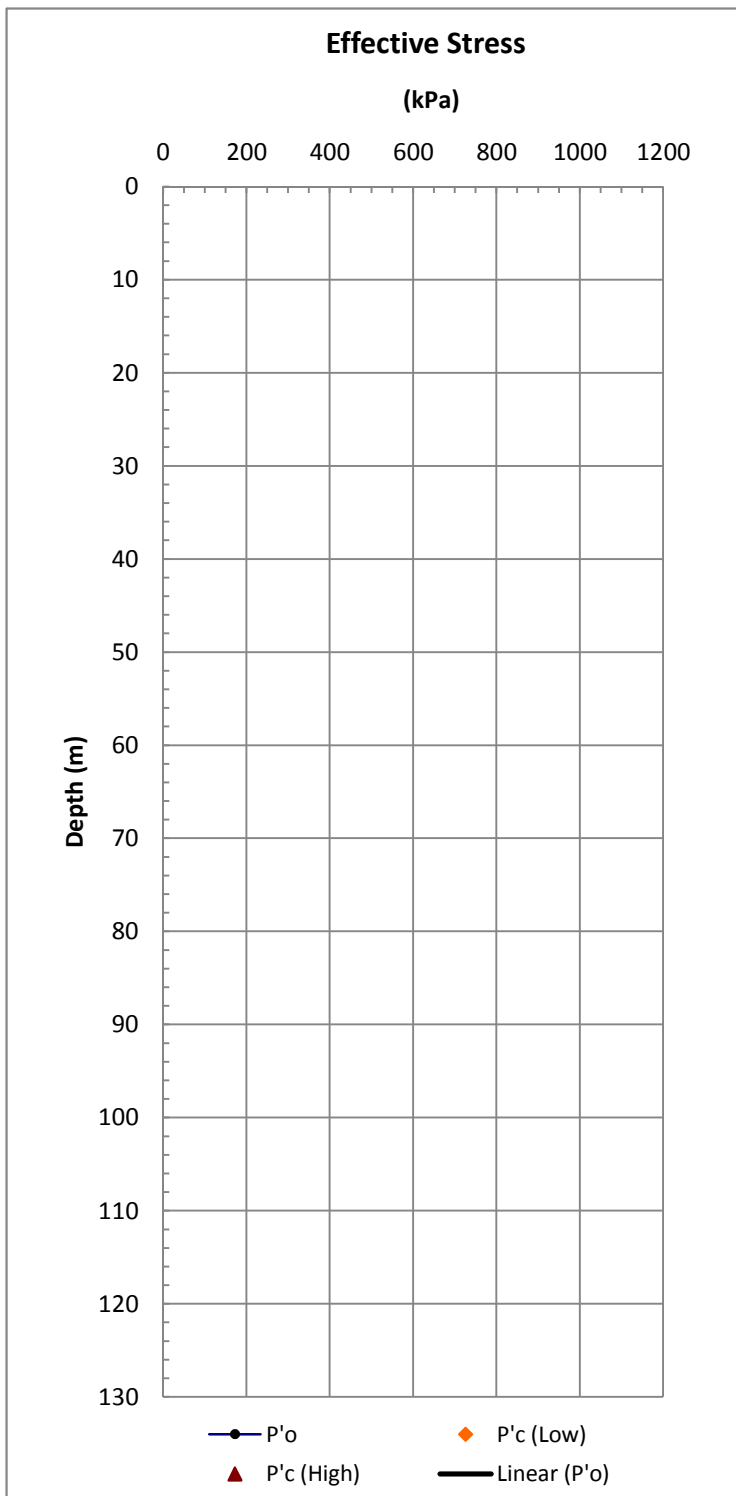
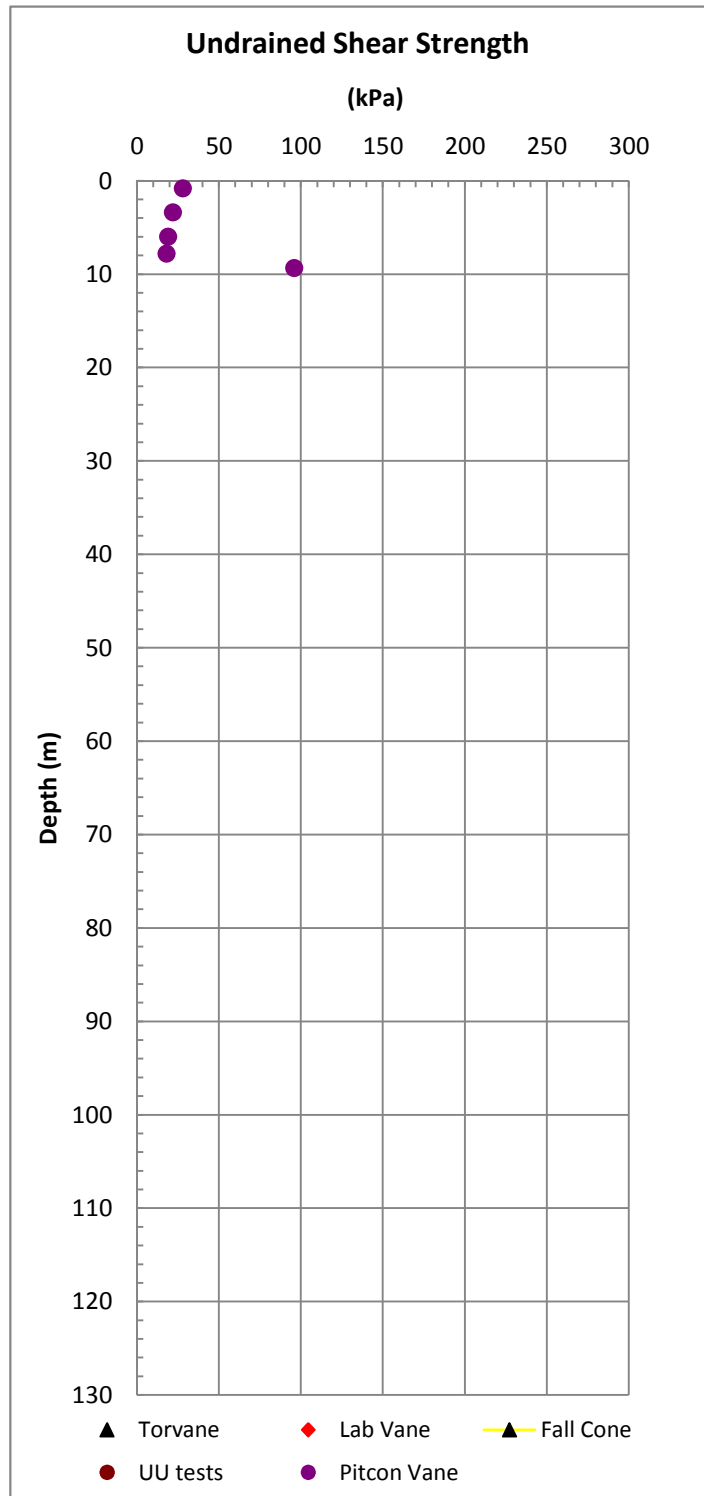
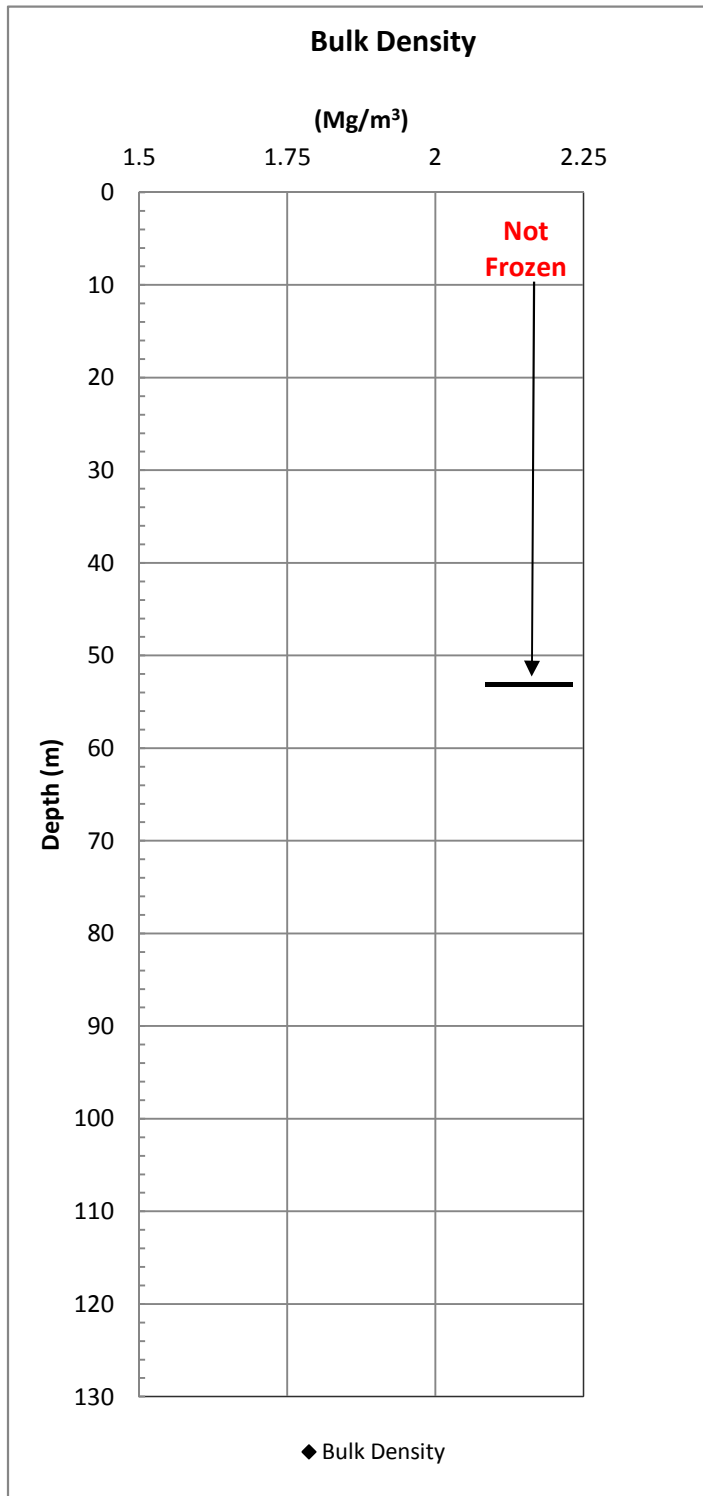


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East Amuligak EA83S01

Figure C.3

10033 Beaufort Data

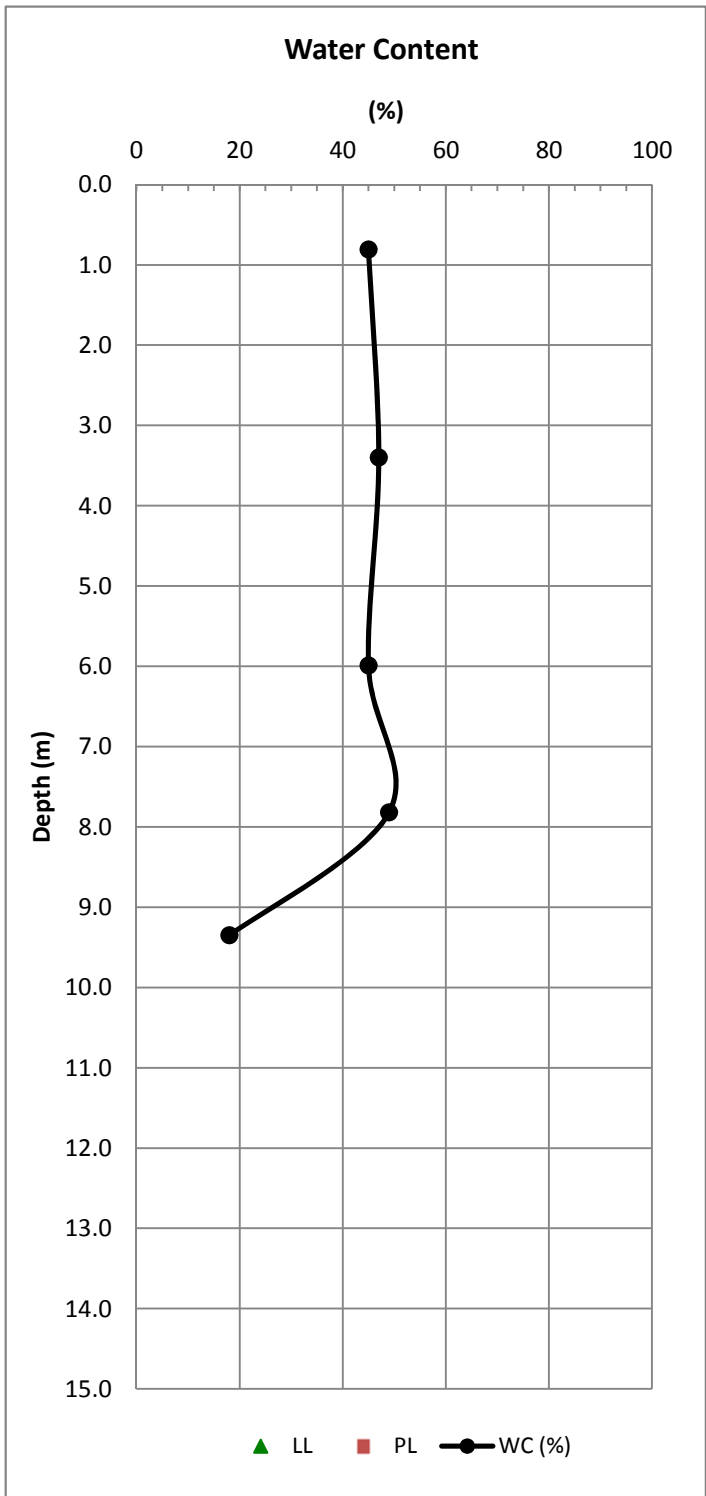
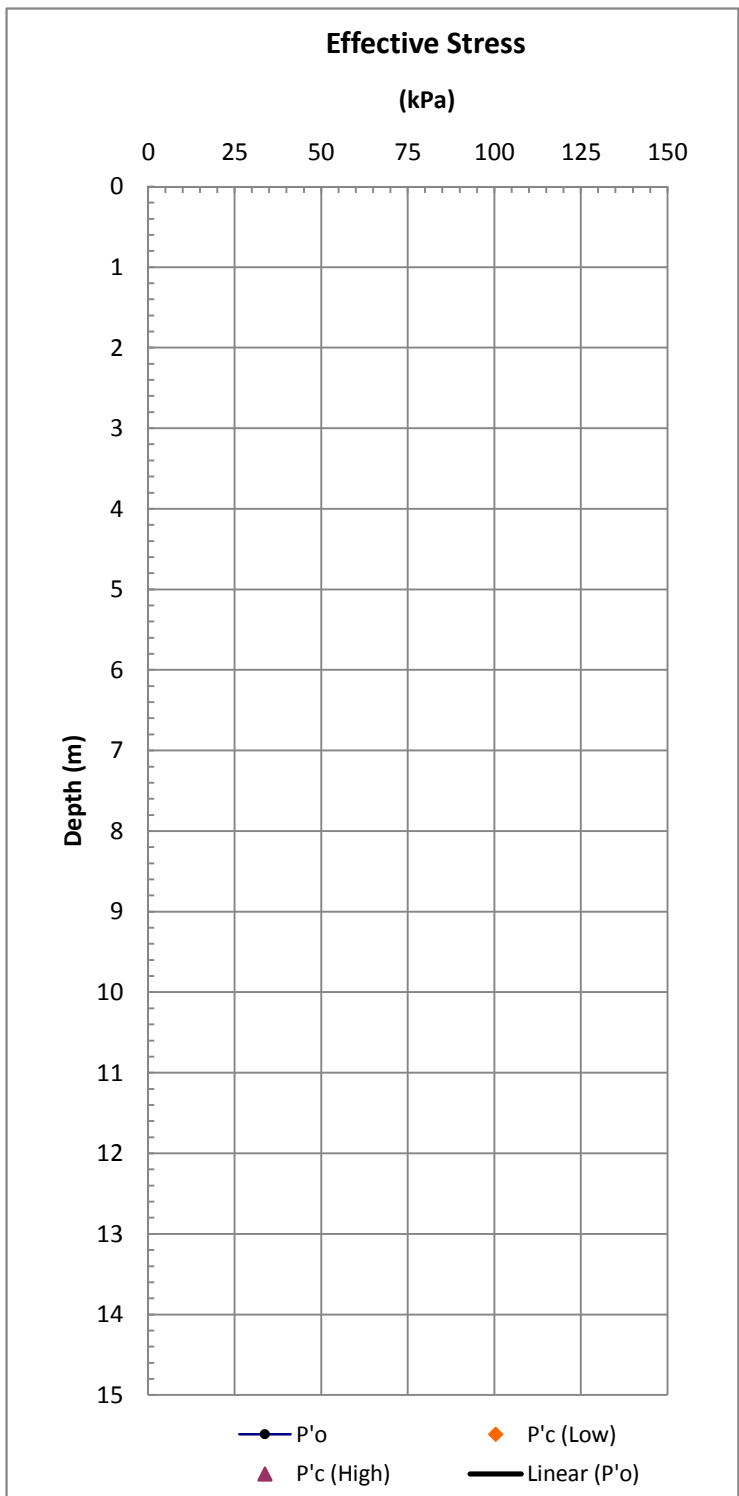
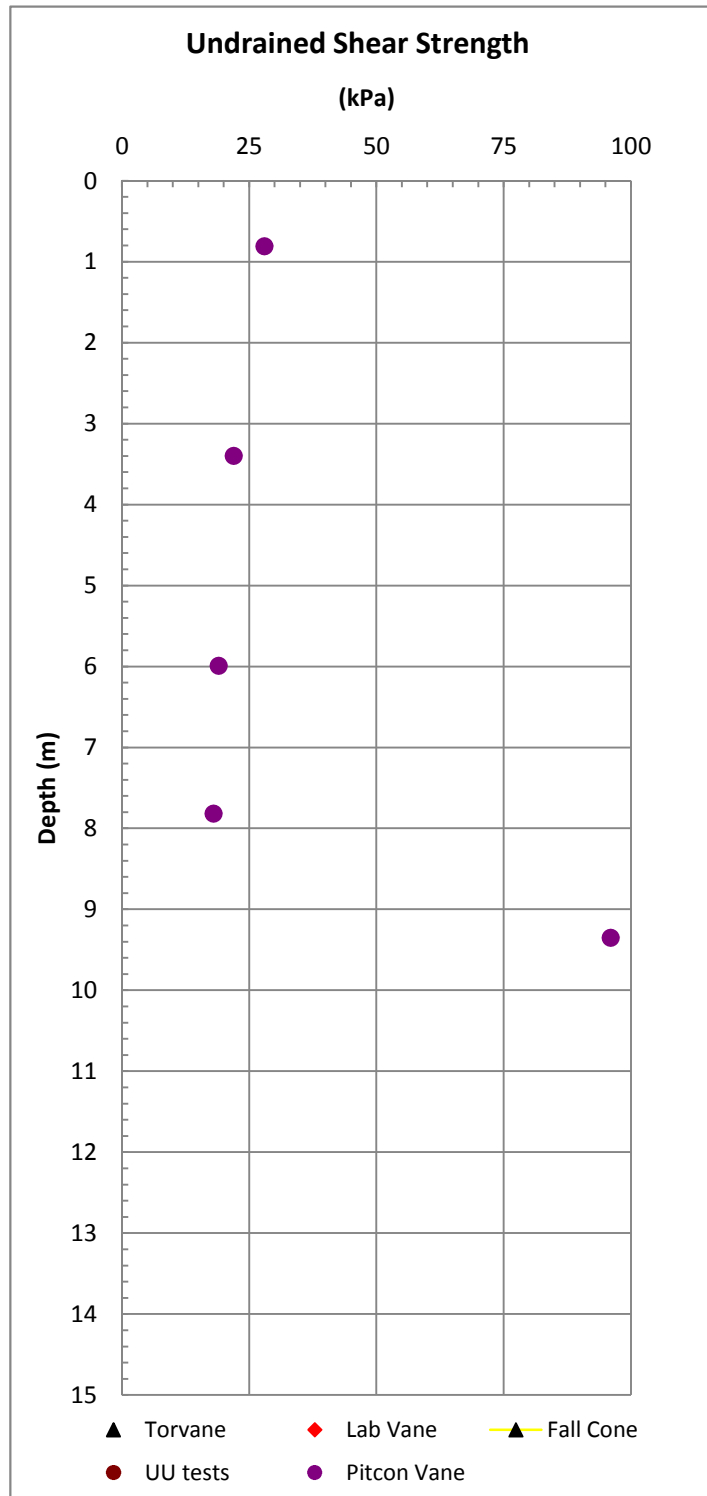
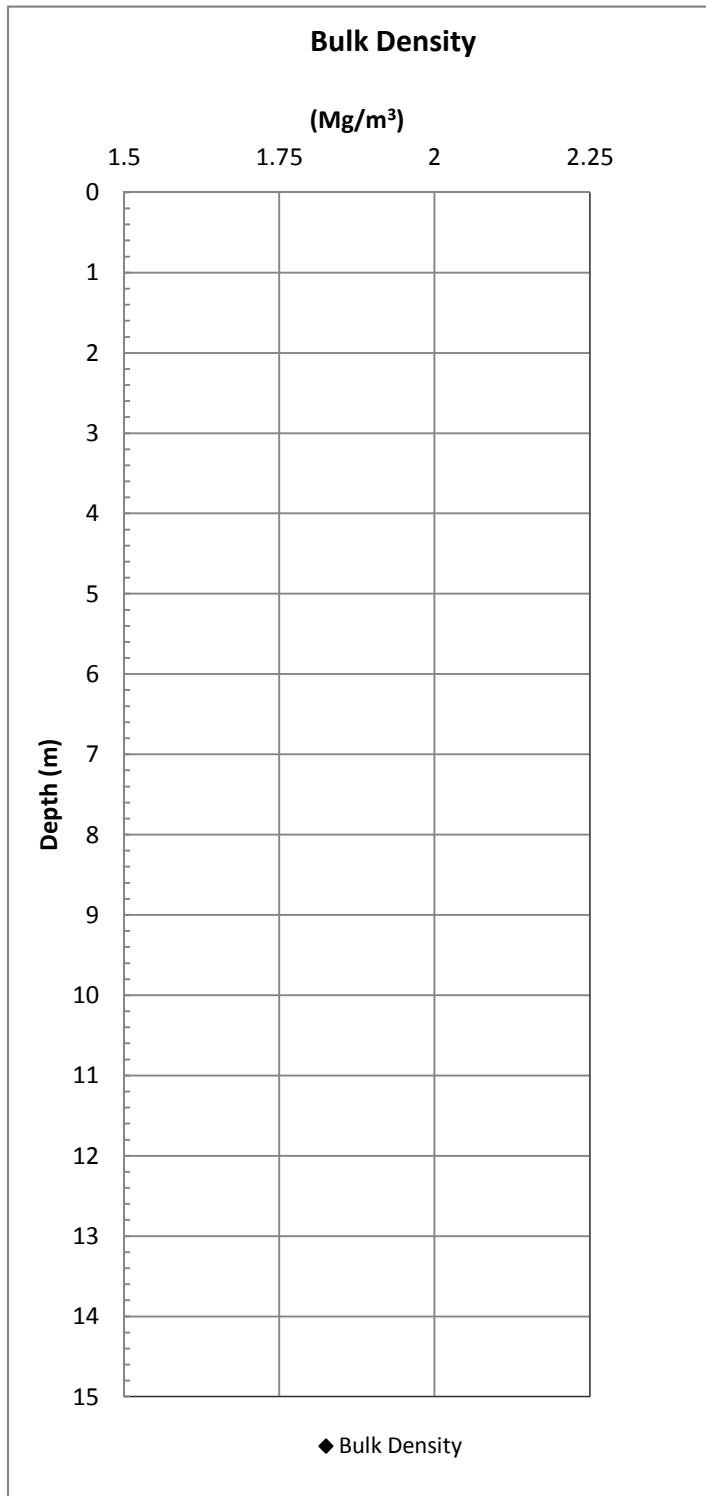


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East Amuligak EA83S02

Figure C.3

10033 Beaufort Data



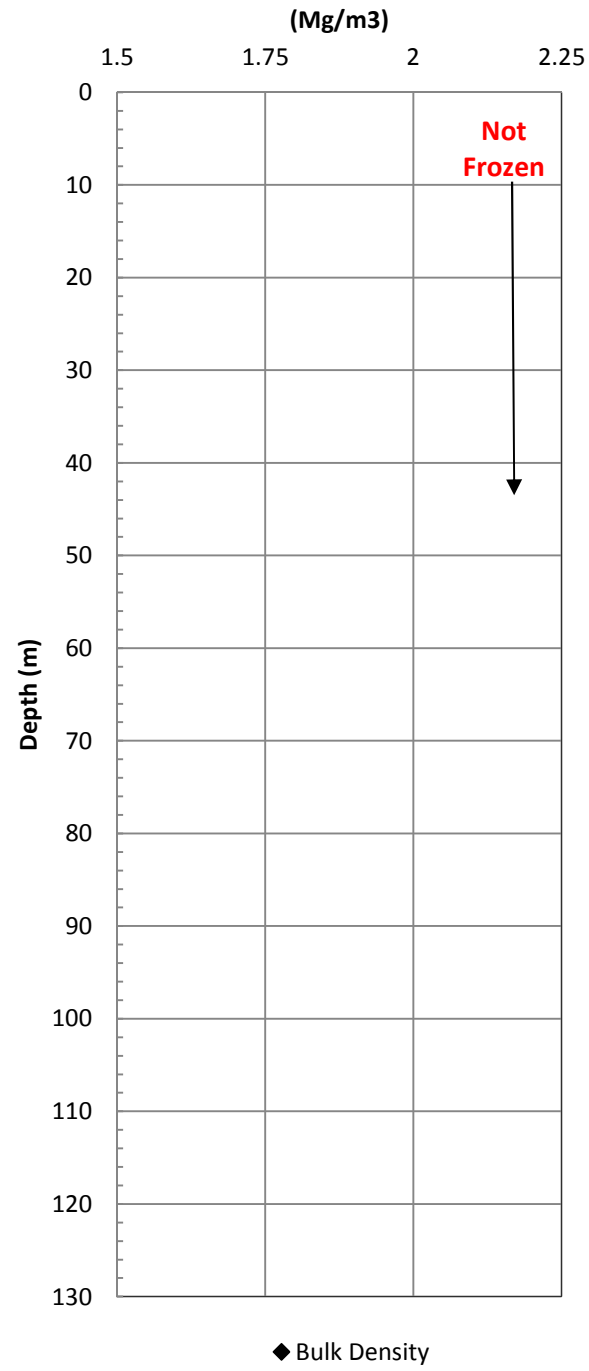
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East Amauligak EA83S02

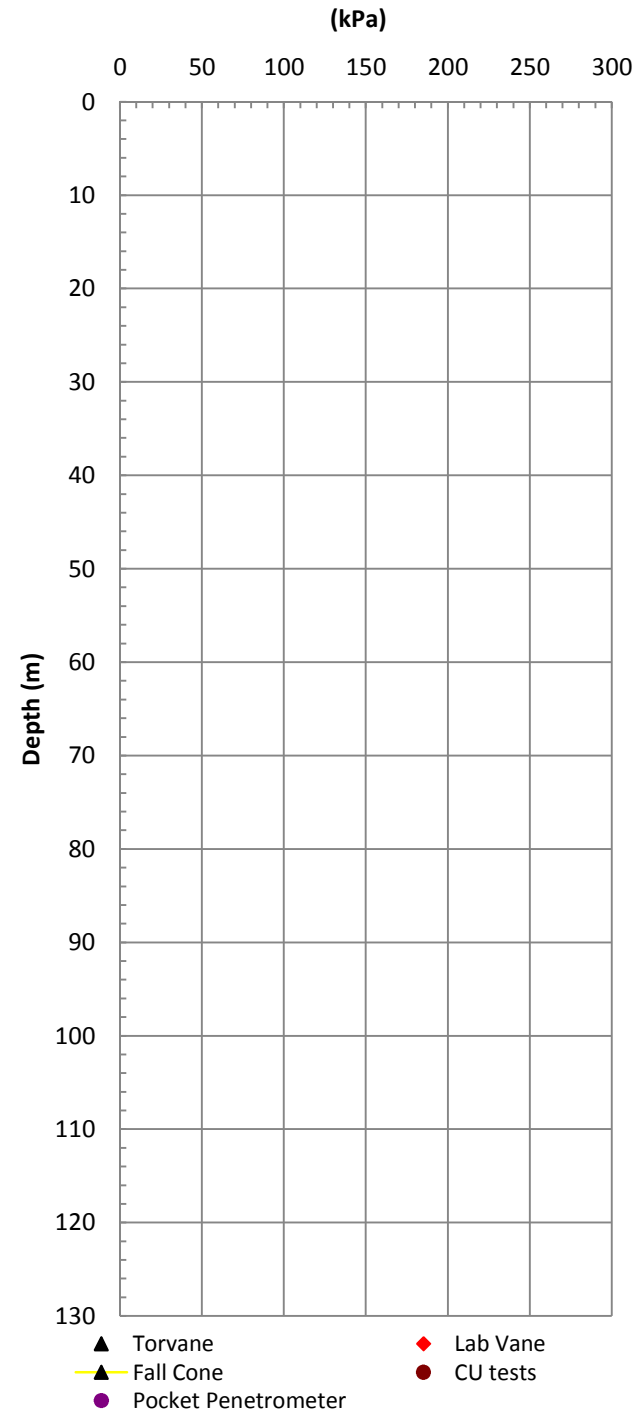
Figure C.3

10033 Beaufort Data

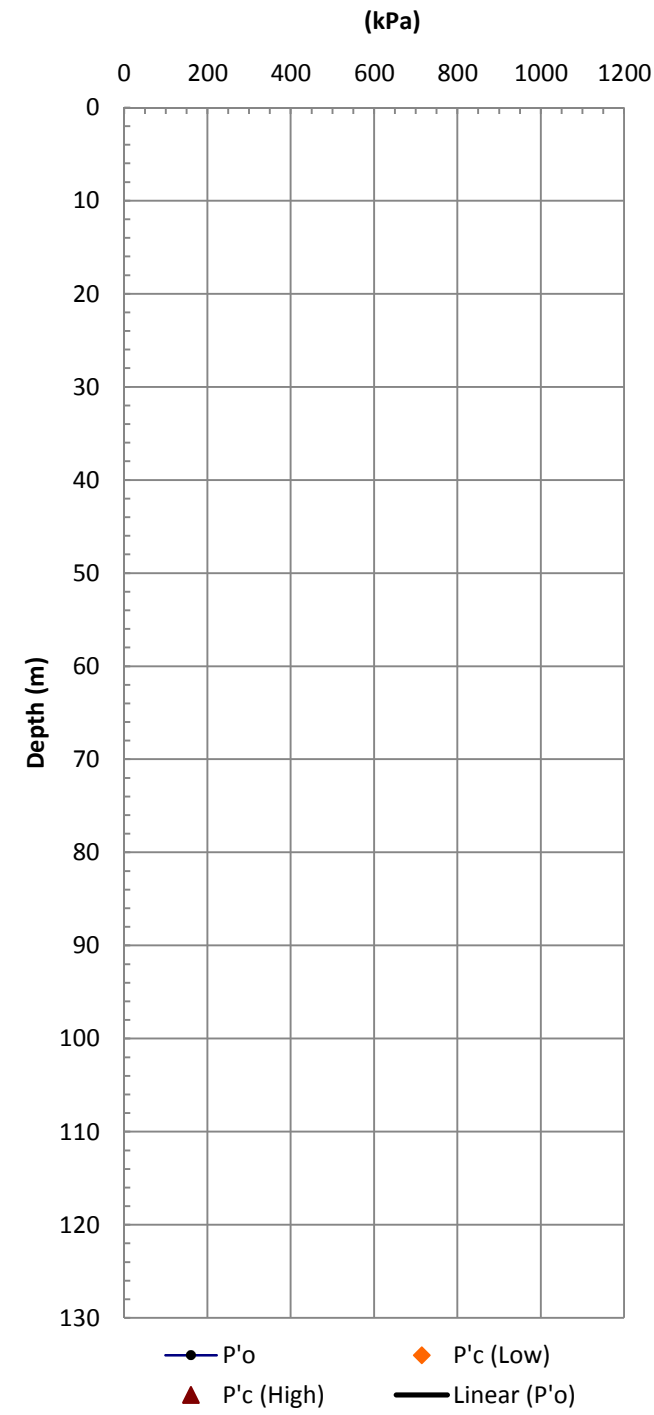
Bulk Density



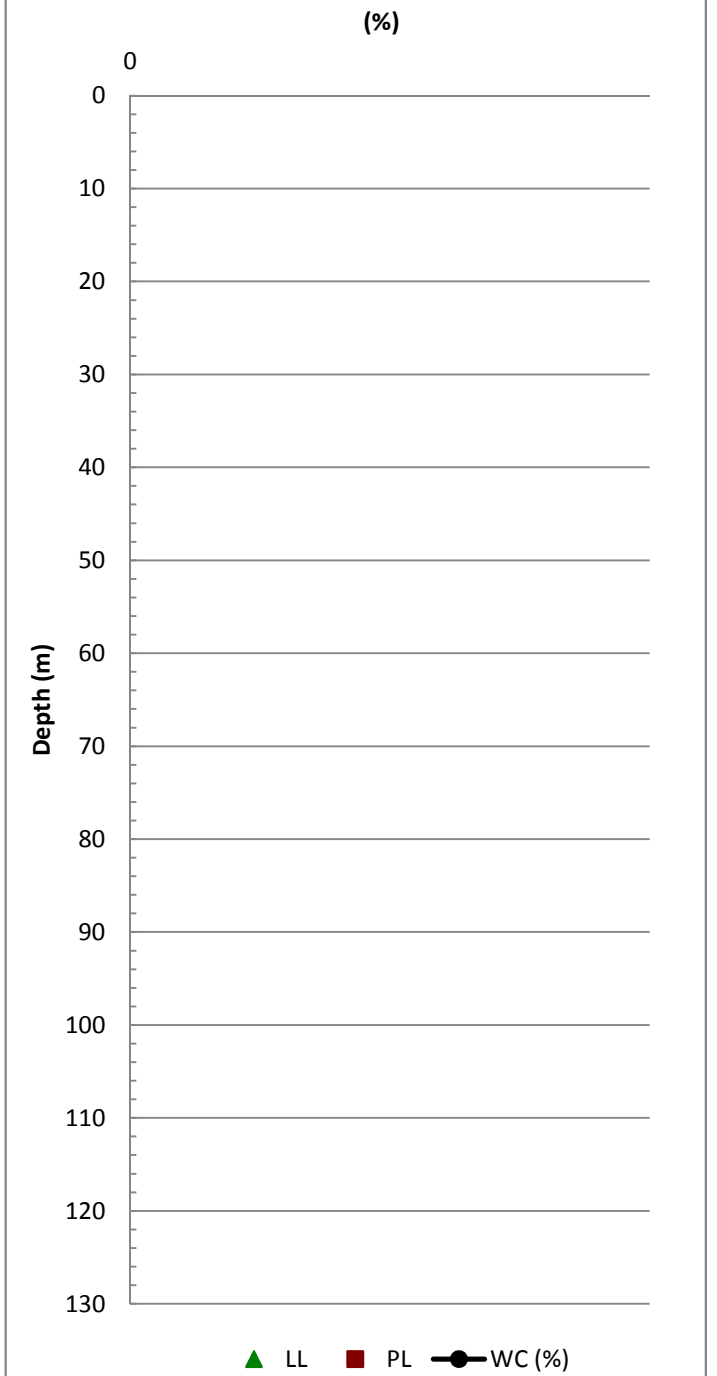
Undrained Shear Strength



Effective Stress



Water Content

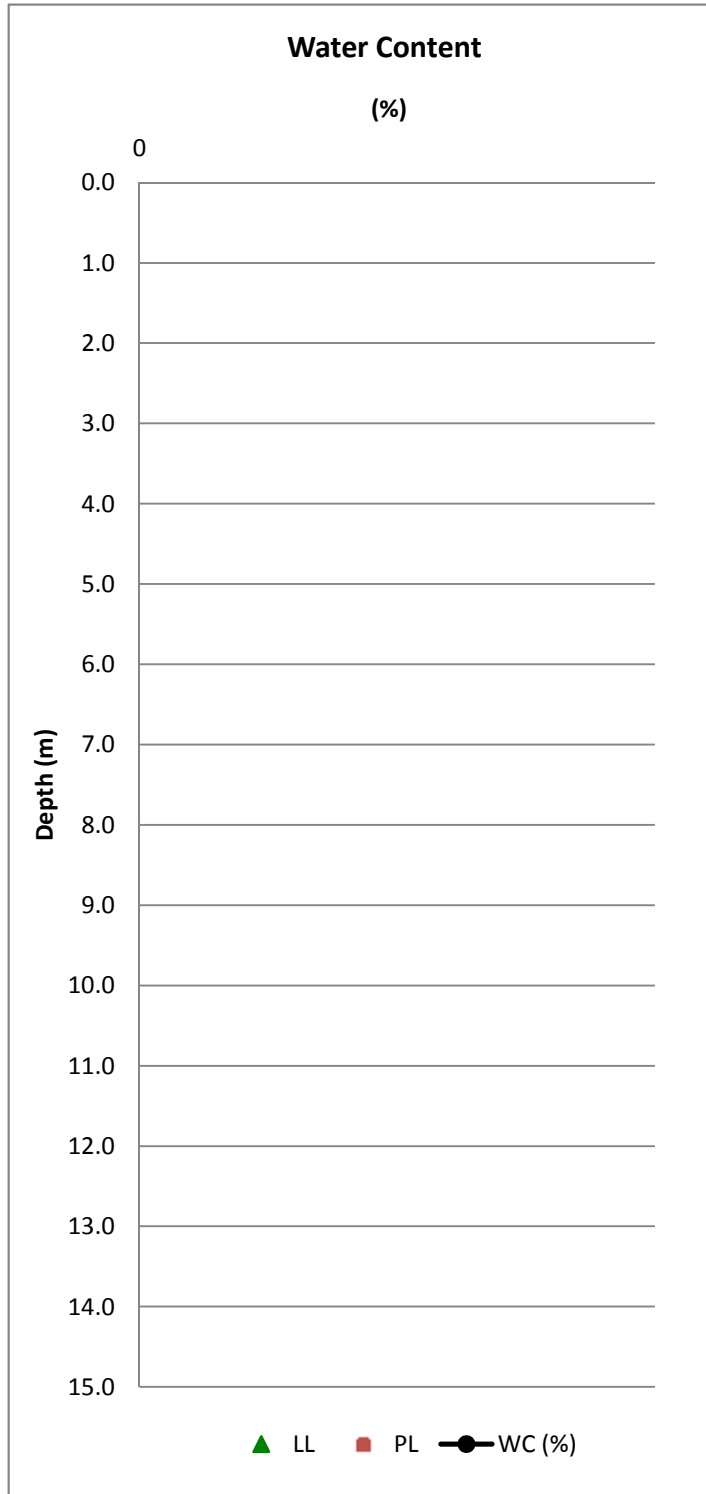
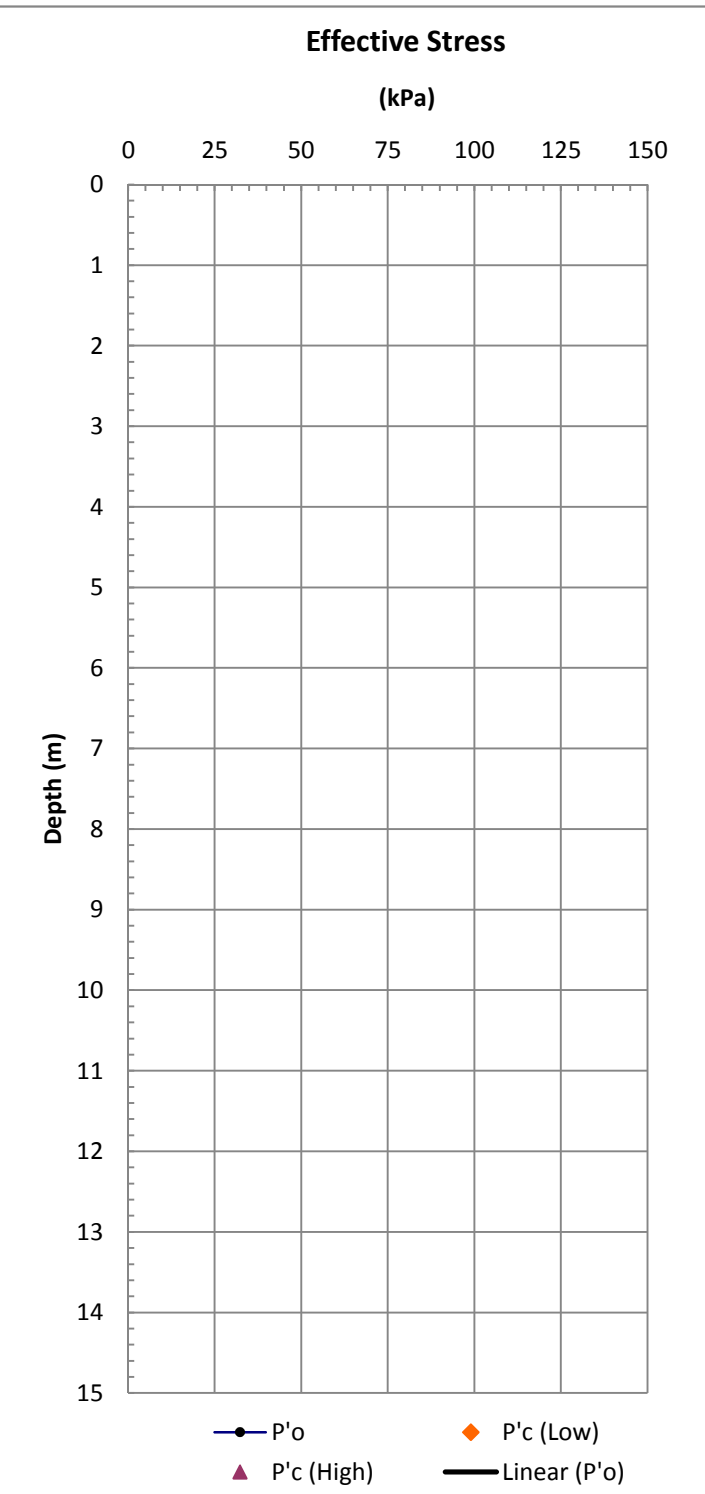
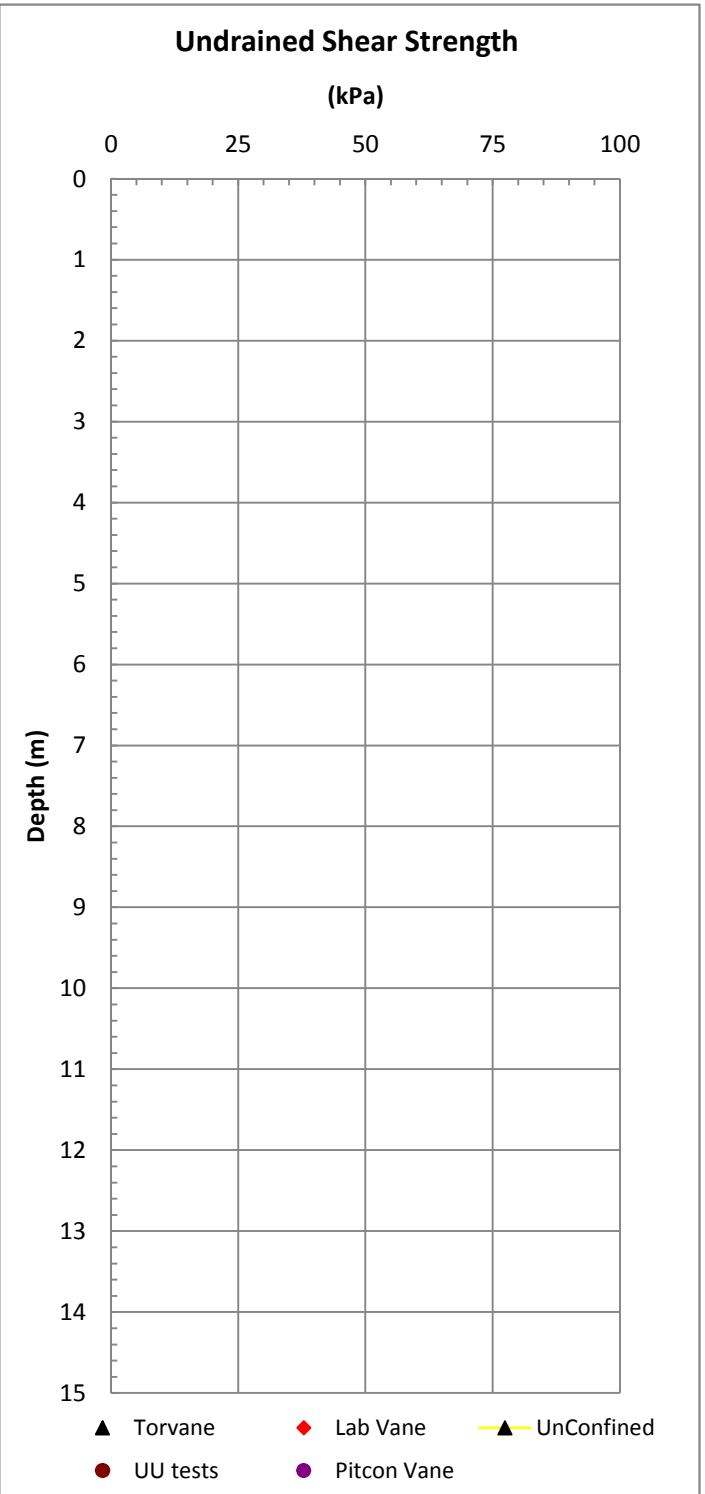
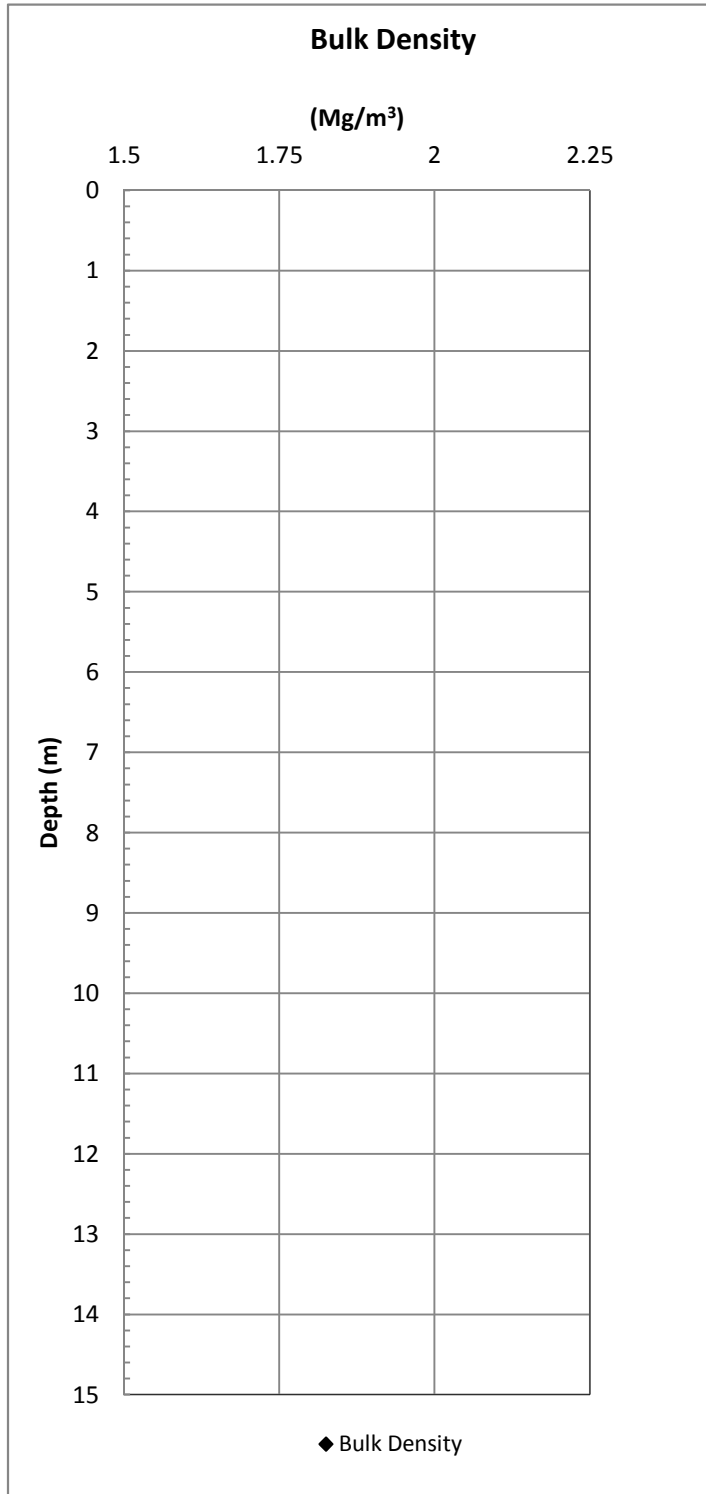


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East Amauligak VC-05

Figure C.3

10033 Beaufort Data



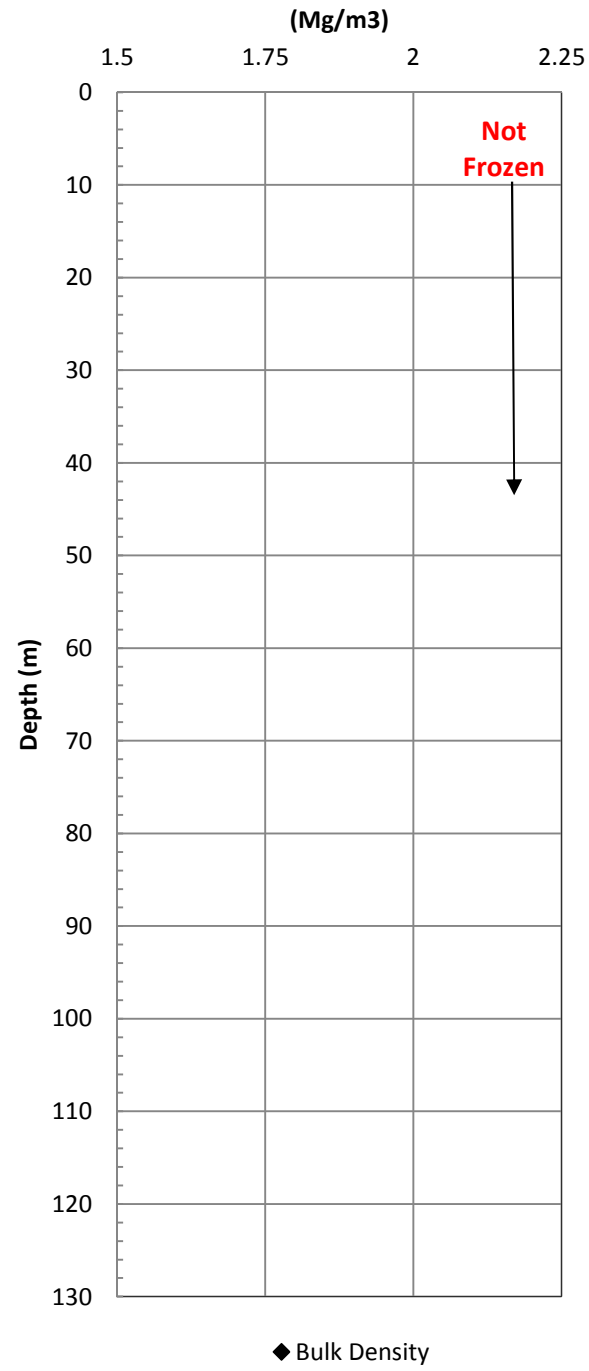
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East Amauligak VC-05

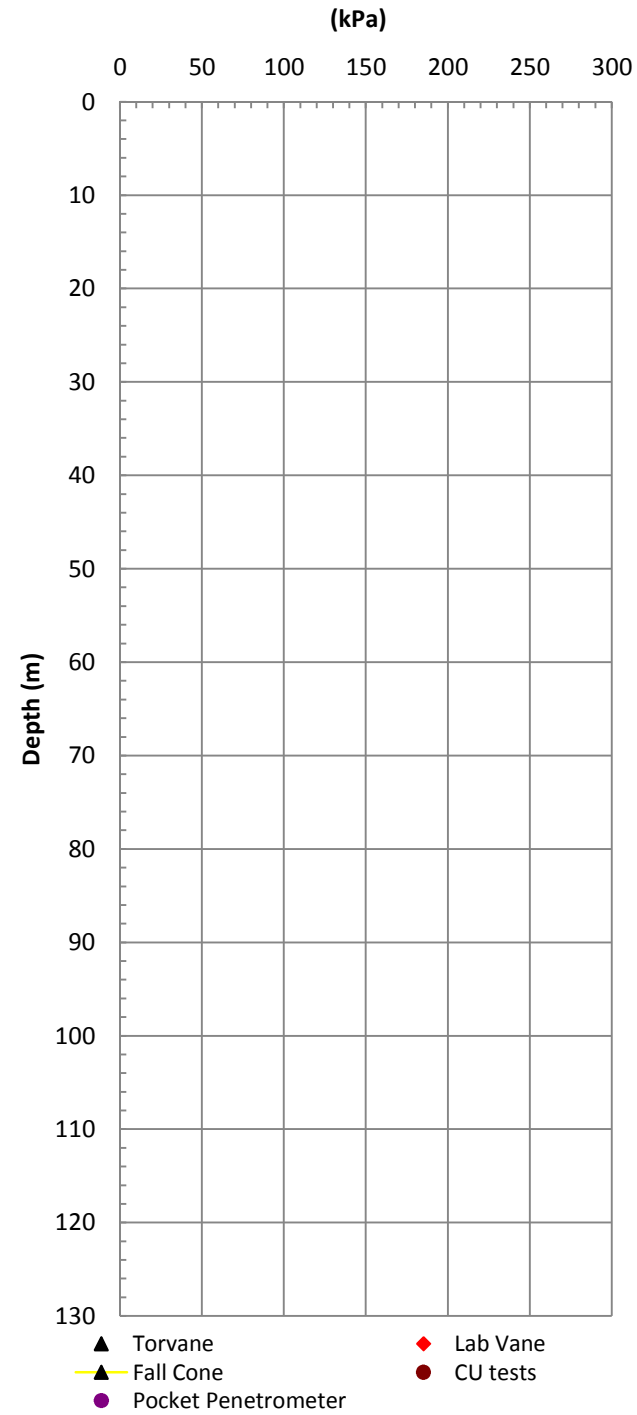
Figure C.3

10033 Beaufort Data

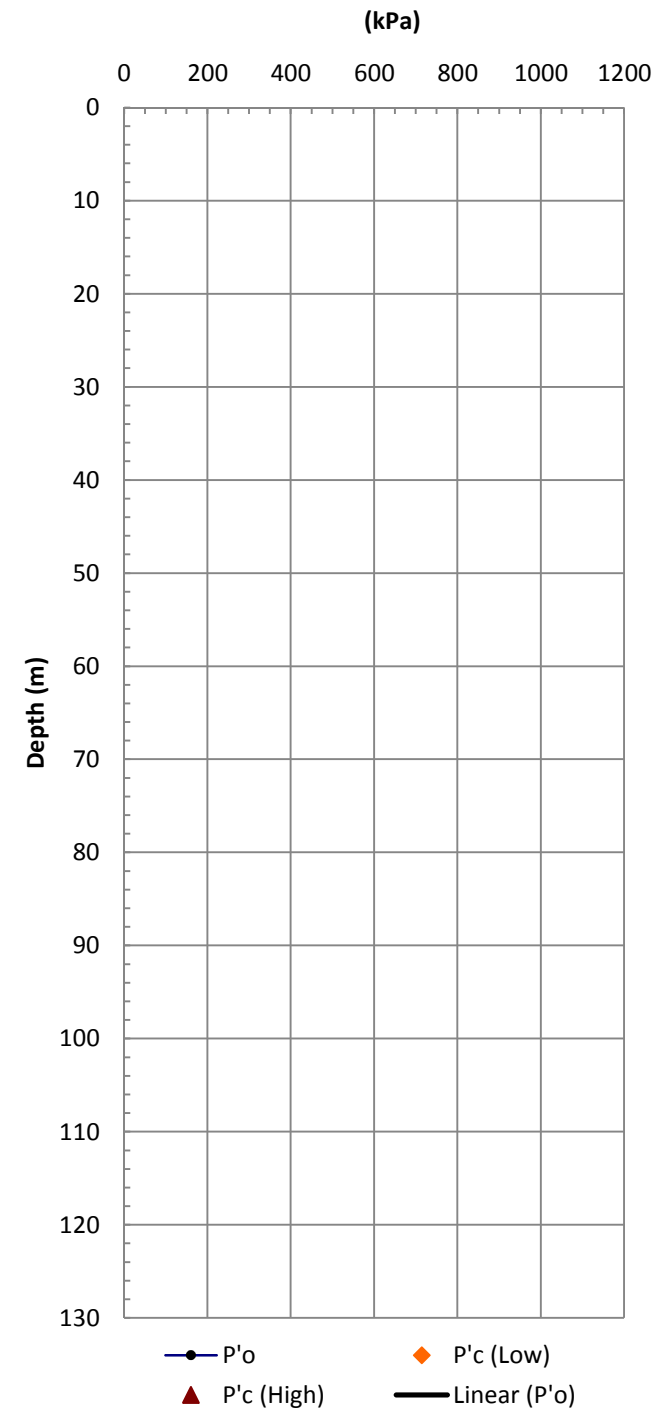
Bulk Density



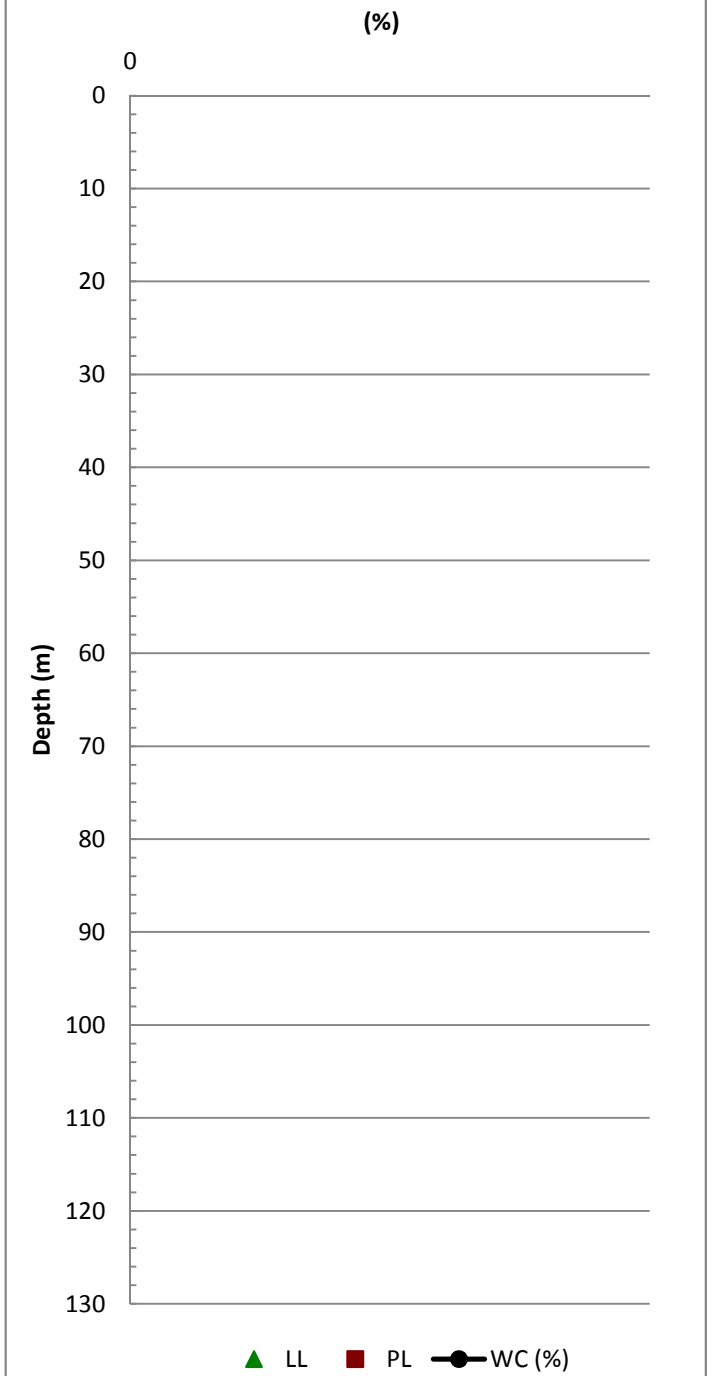
Undrained Shear Strength



Effective Stress



Water Content

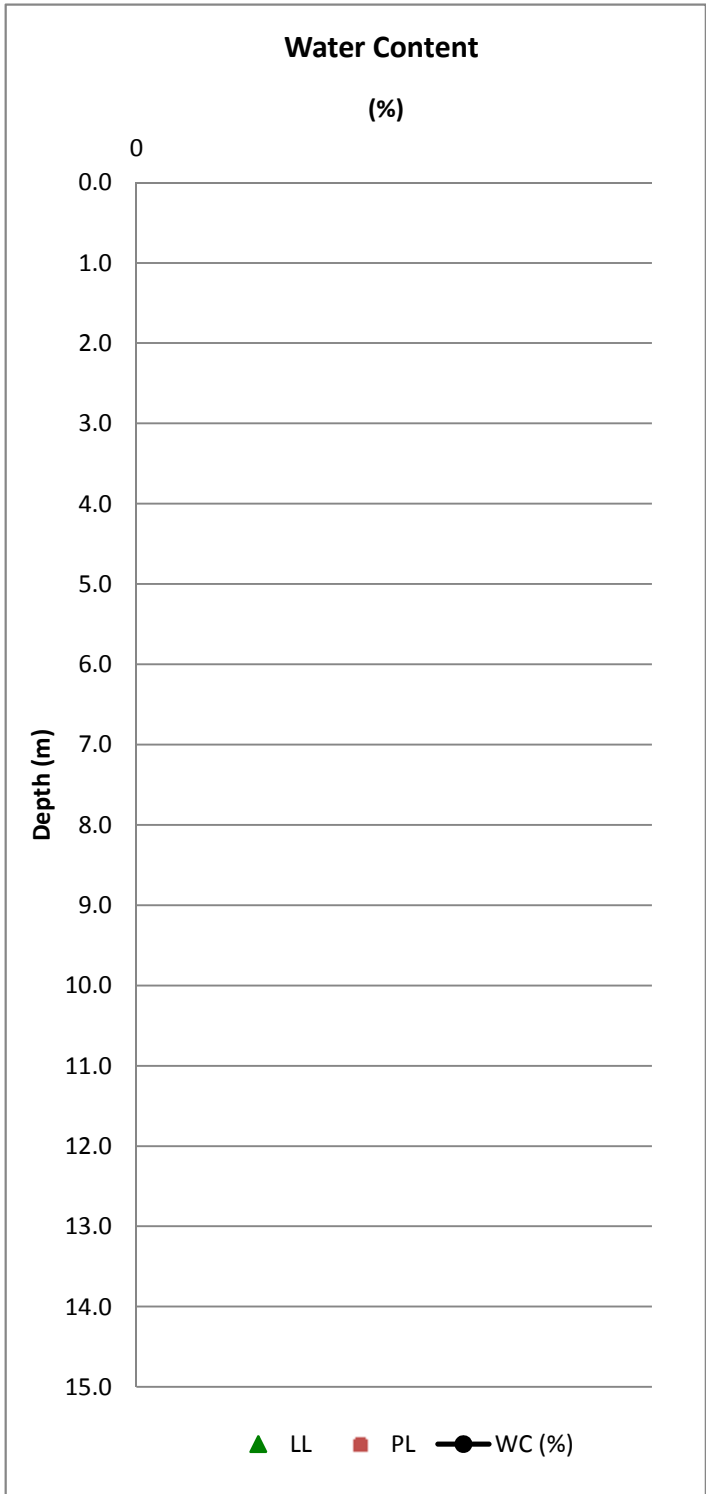
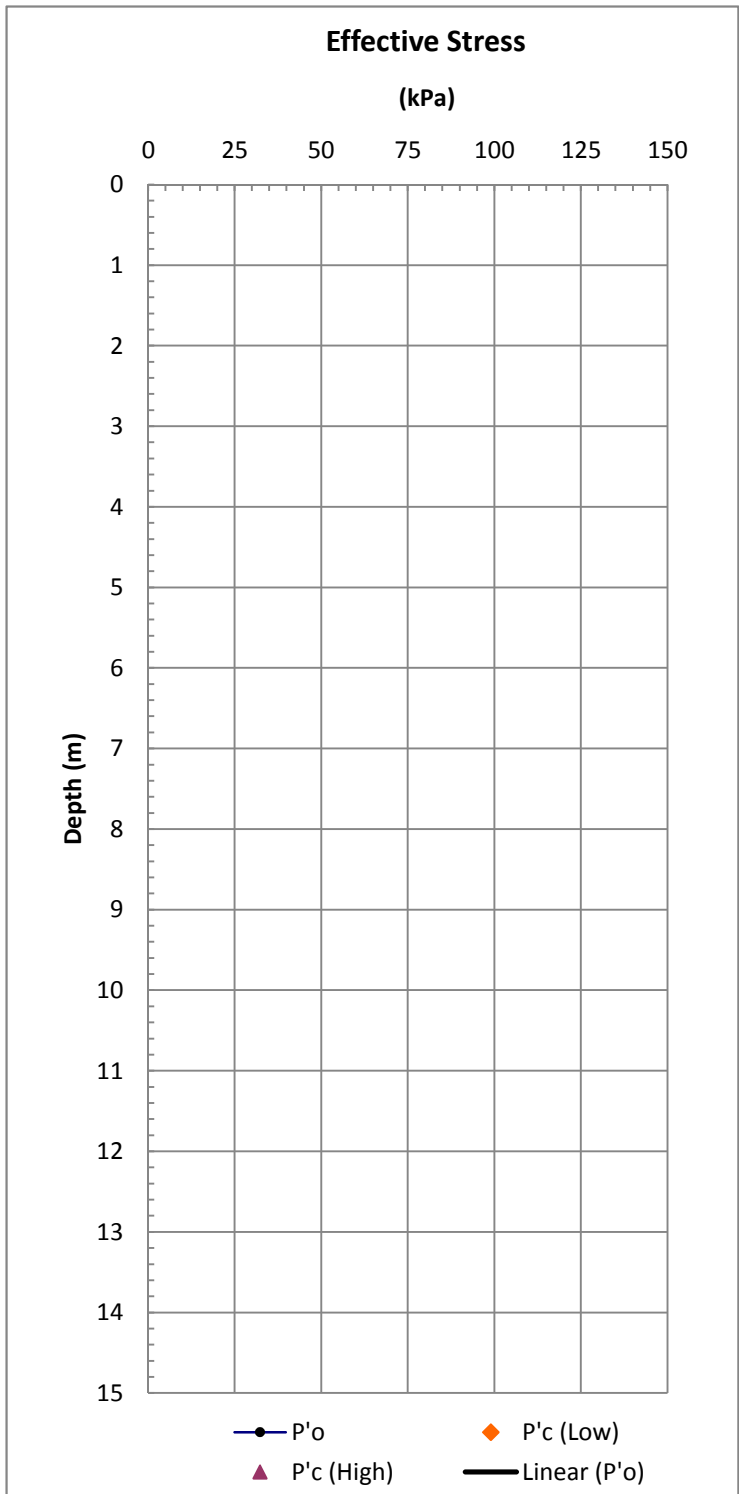
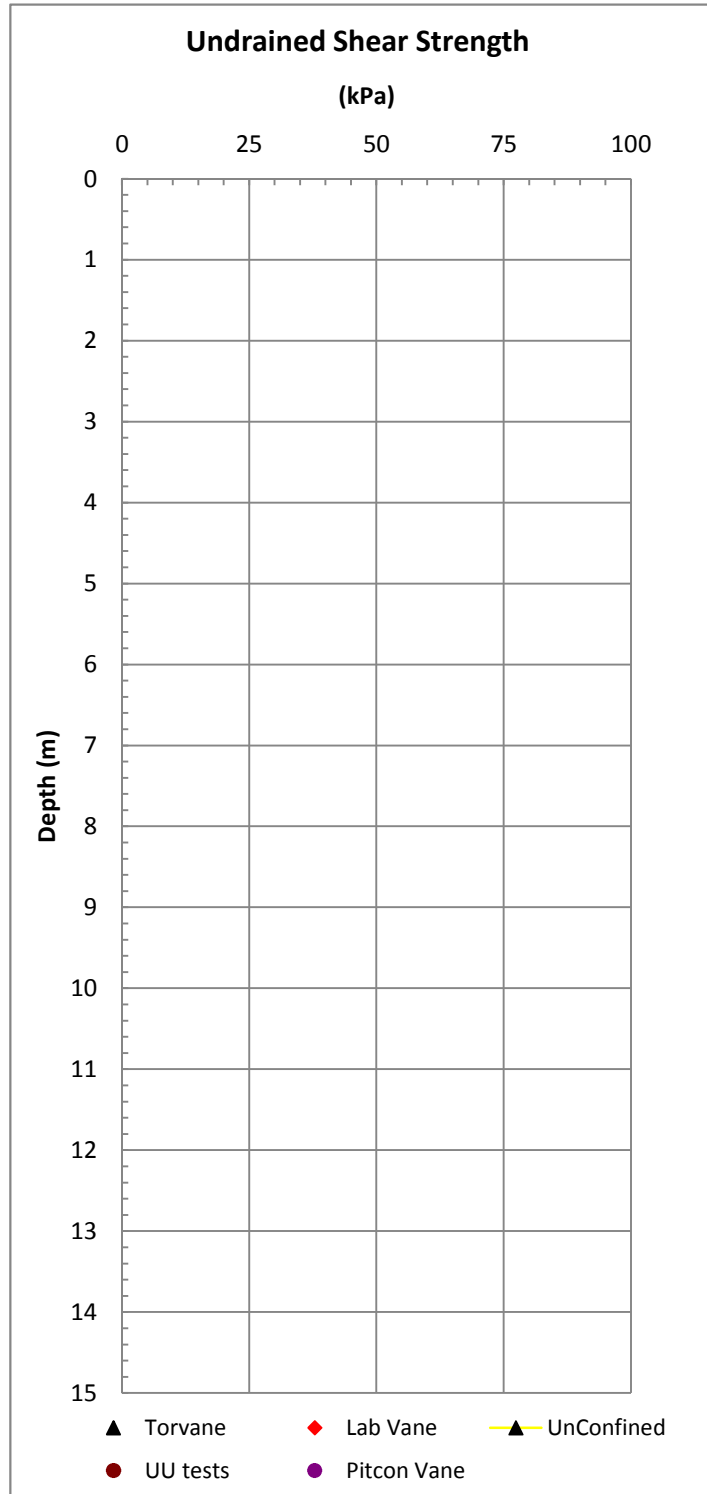
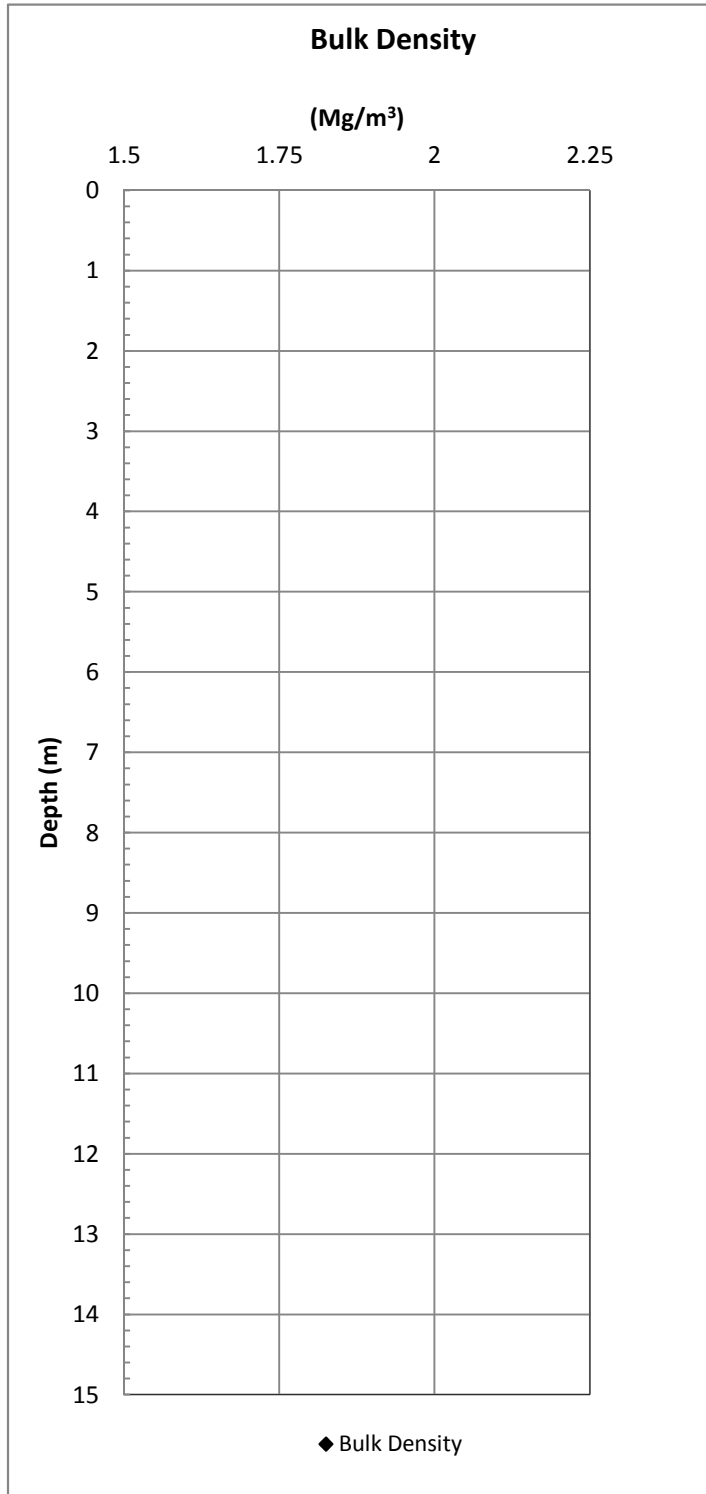


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East Amauligak VC-06

Figure C.3

10033 Beaufort Data



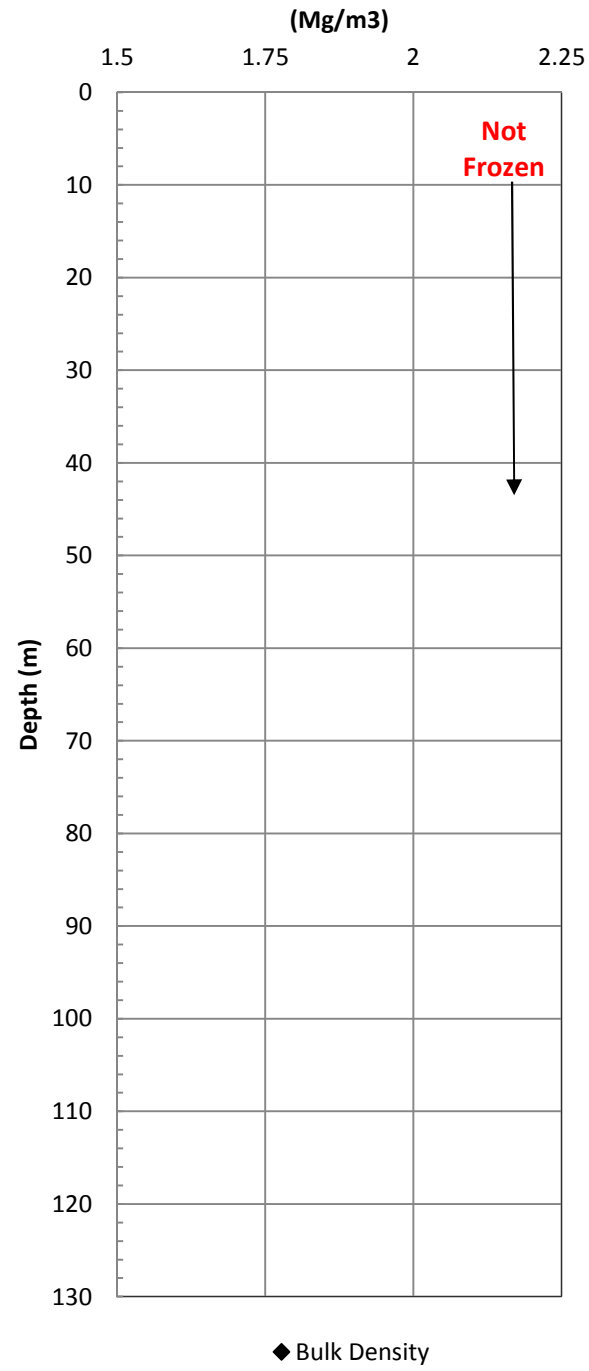
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East Amauligak VC-06

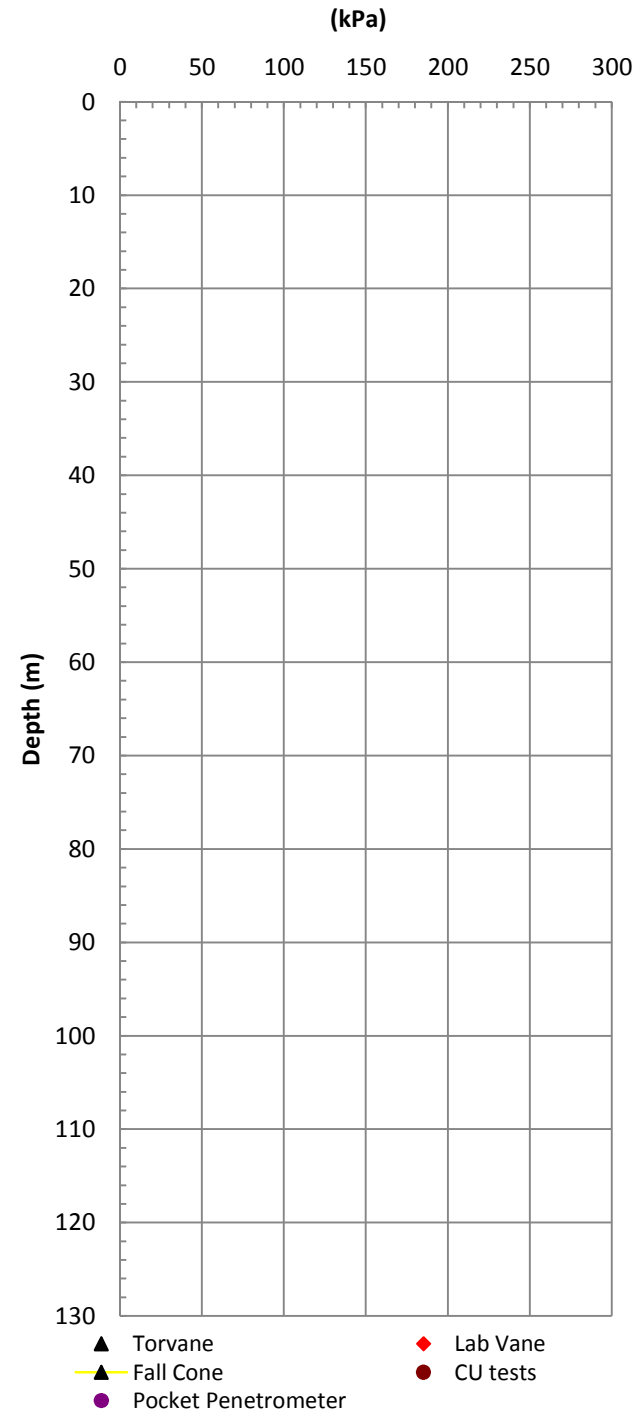
Figure C.3

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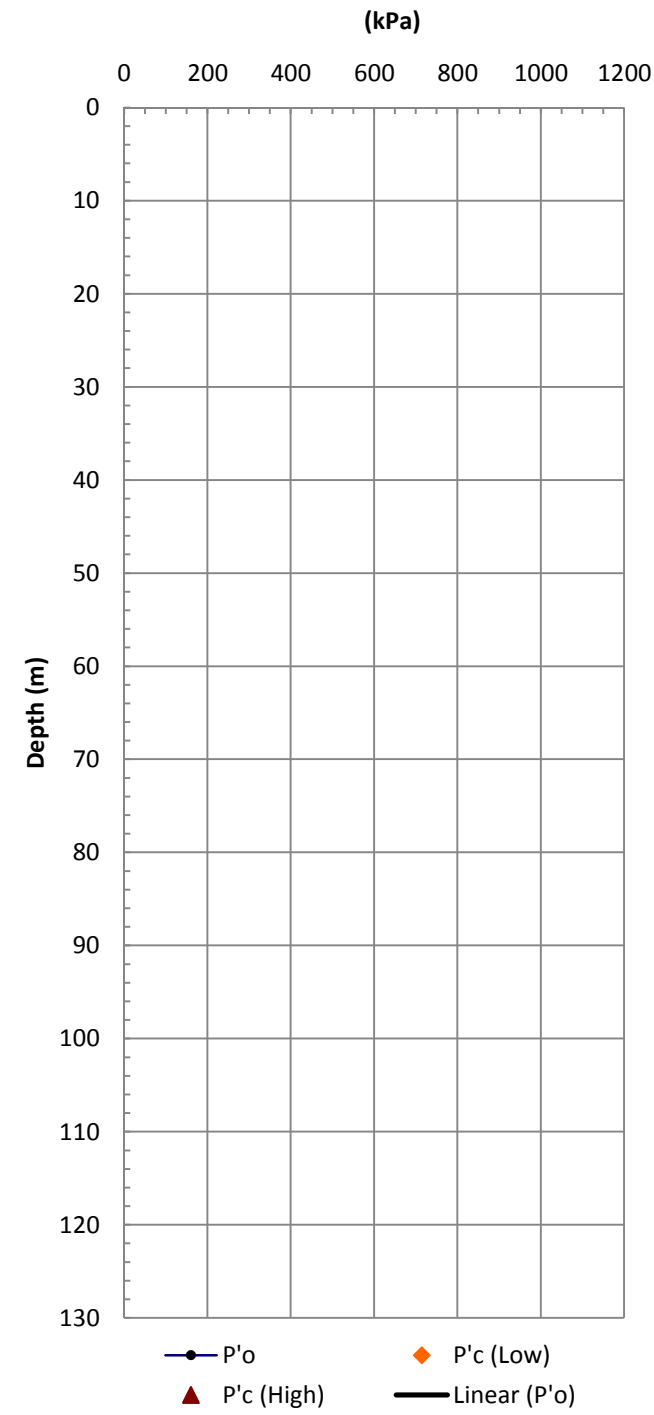
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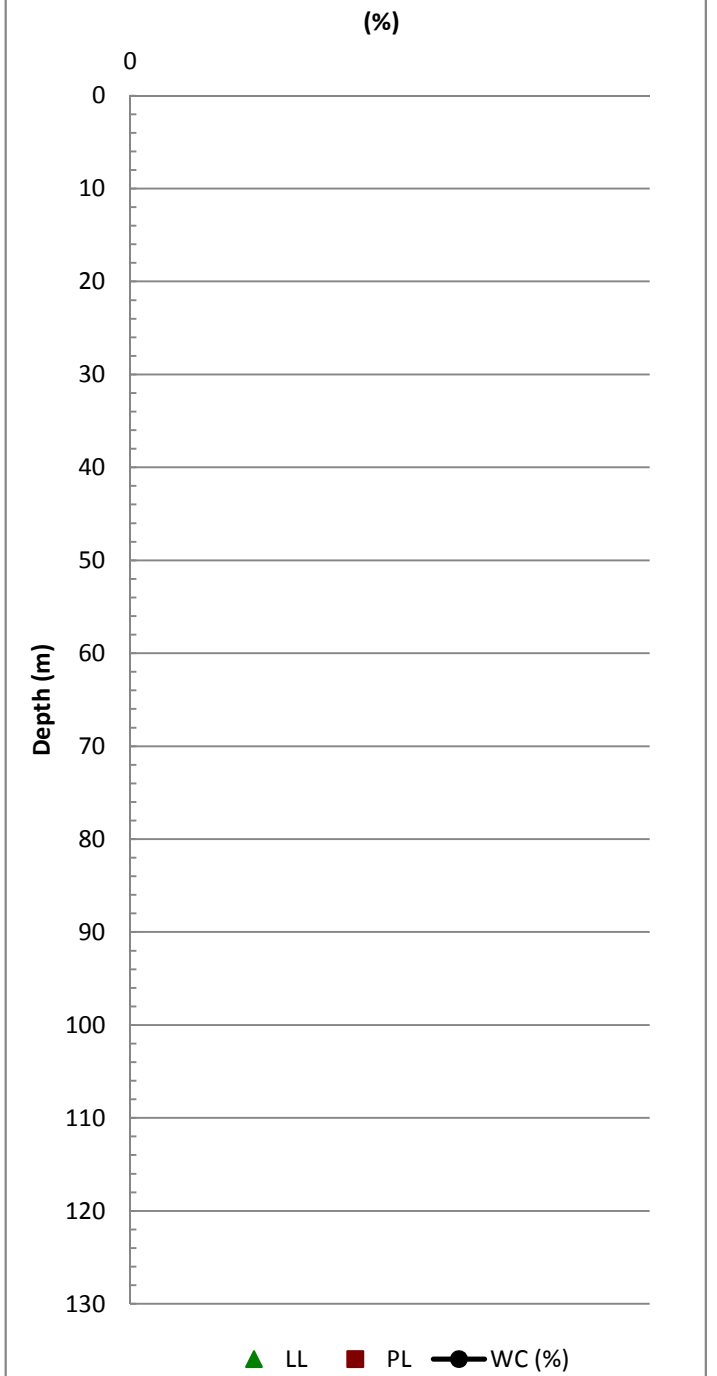
Undrained Shear Strength



Effective Stress



Water Content

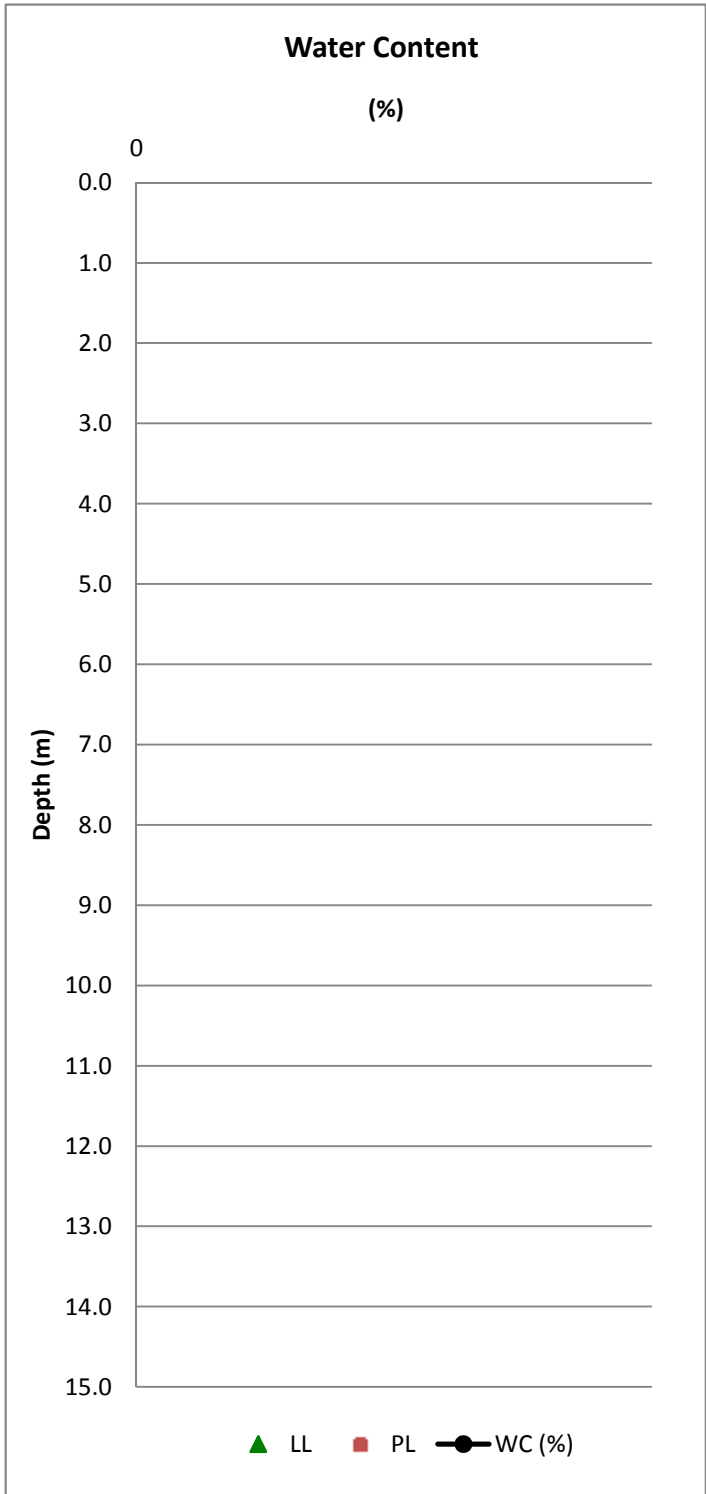
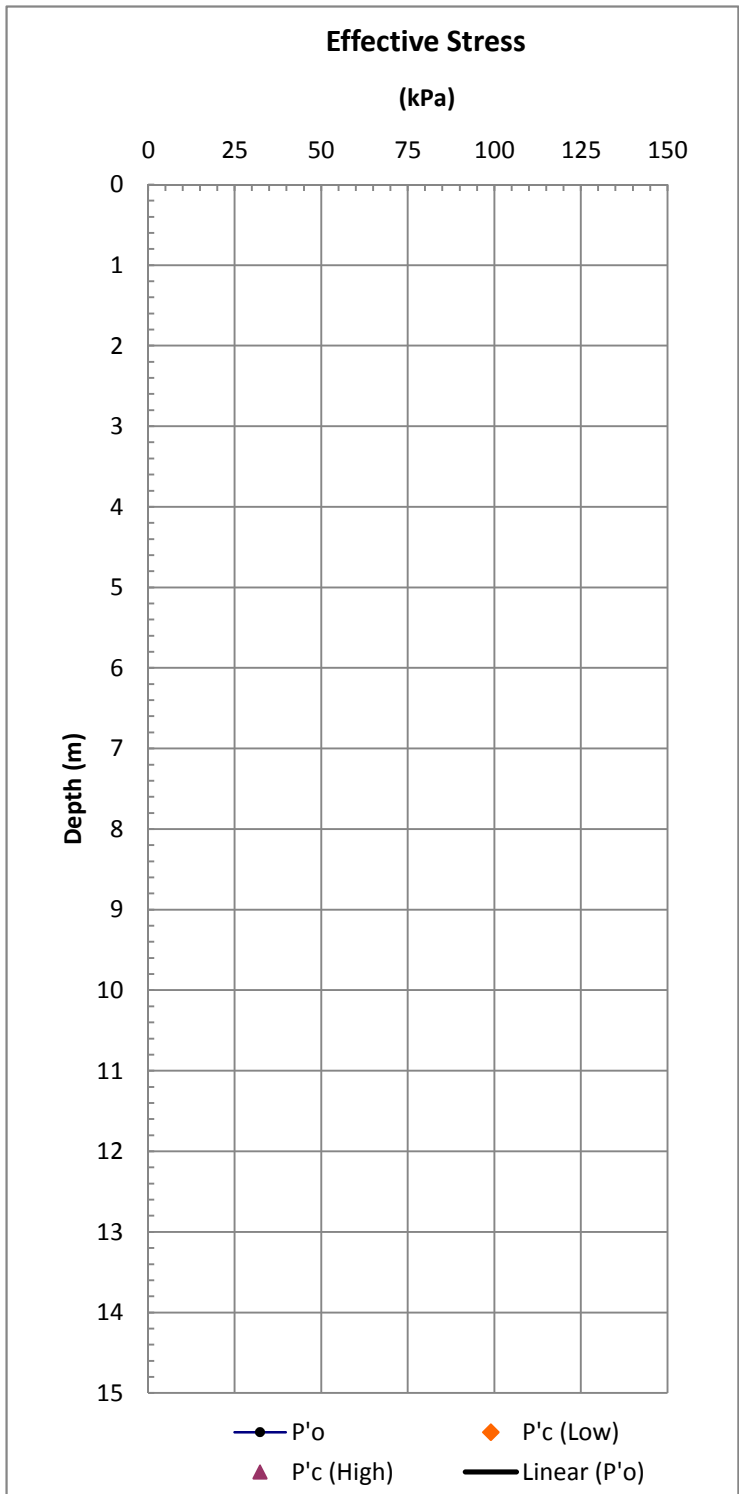
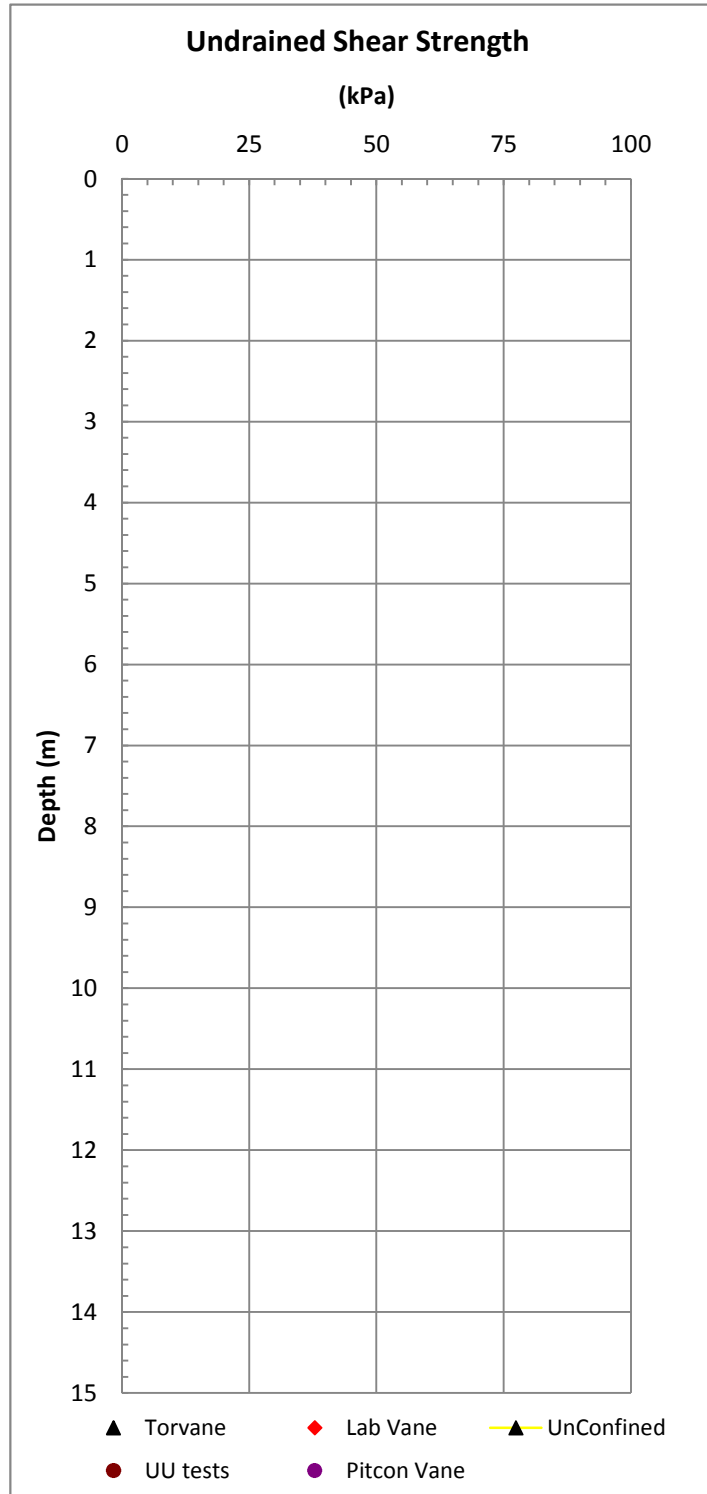
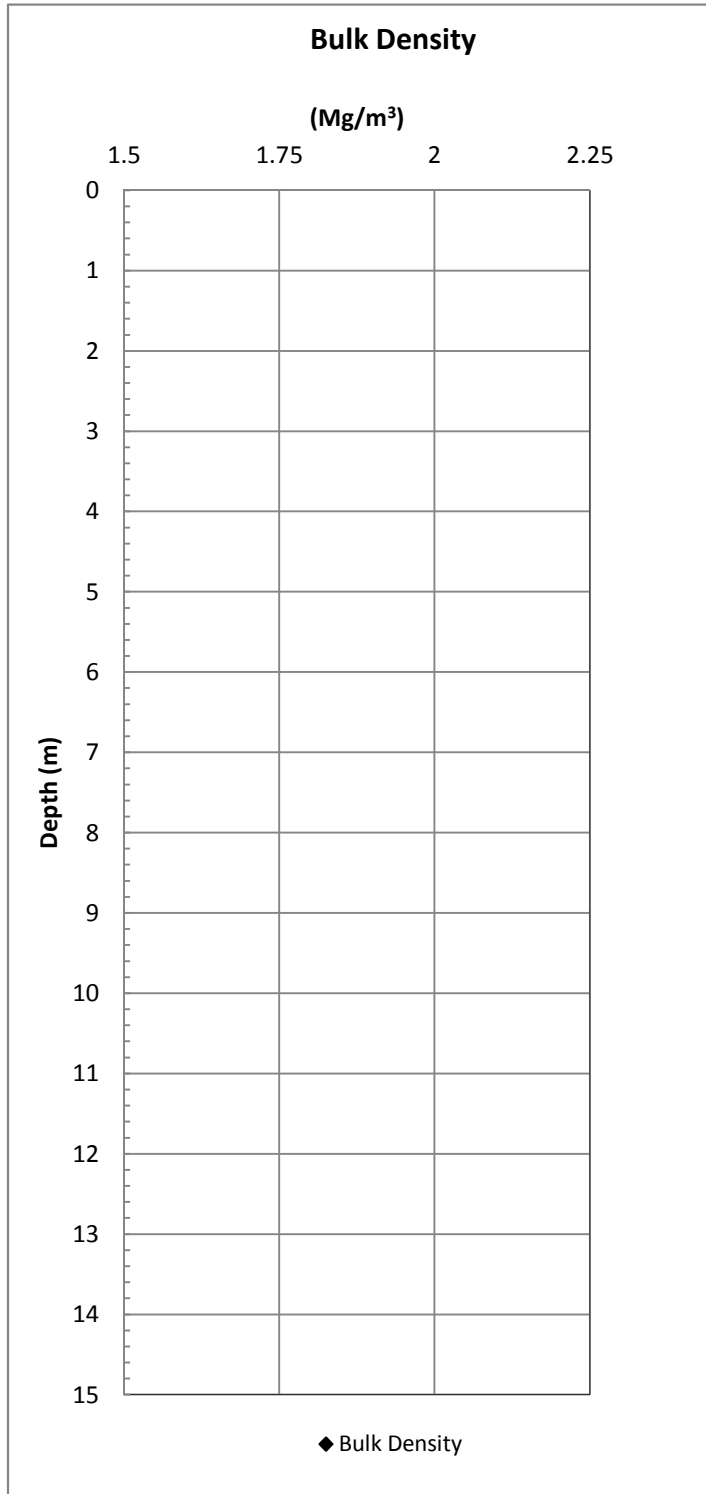


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East Amauligak VC-07

Figure C.3

10033 Beaufort Data

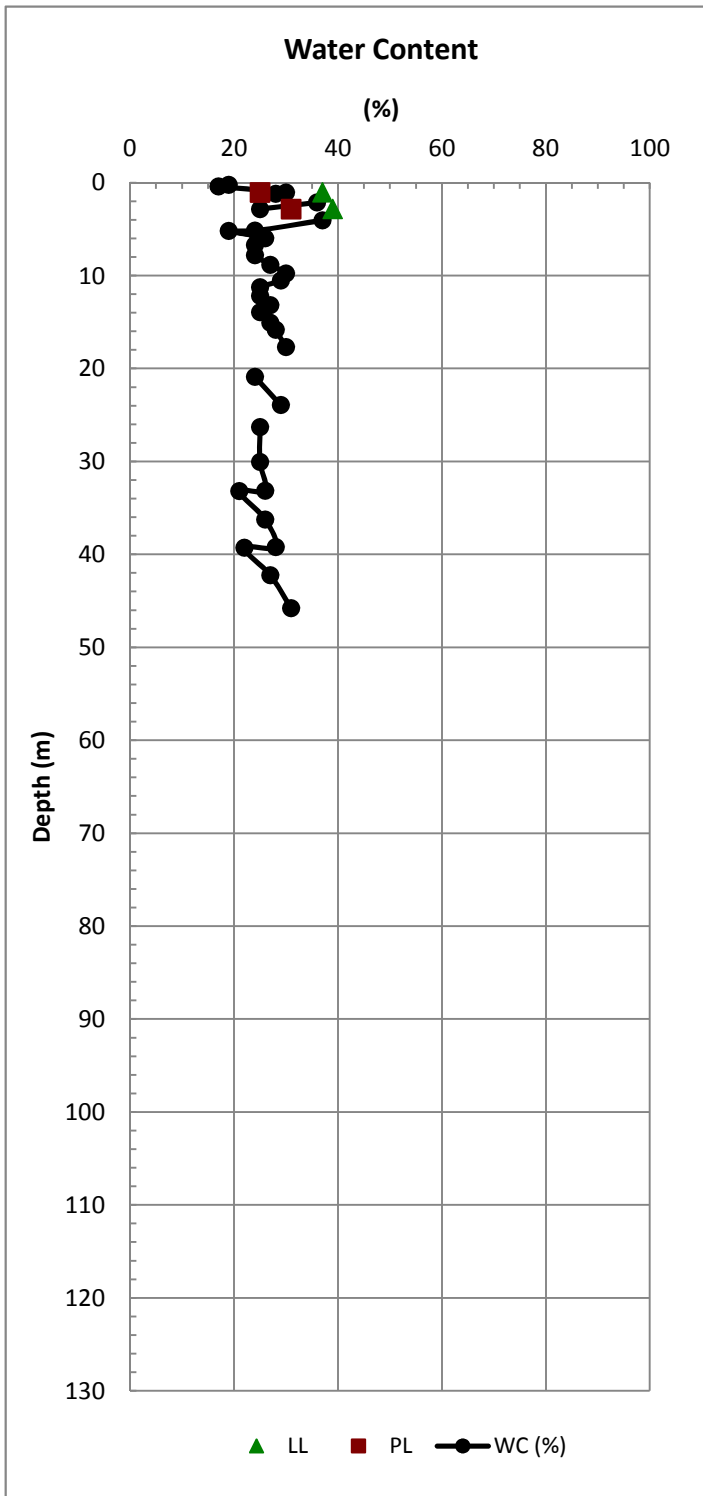
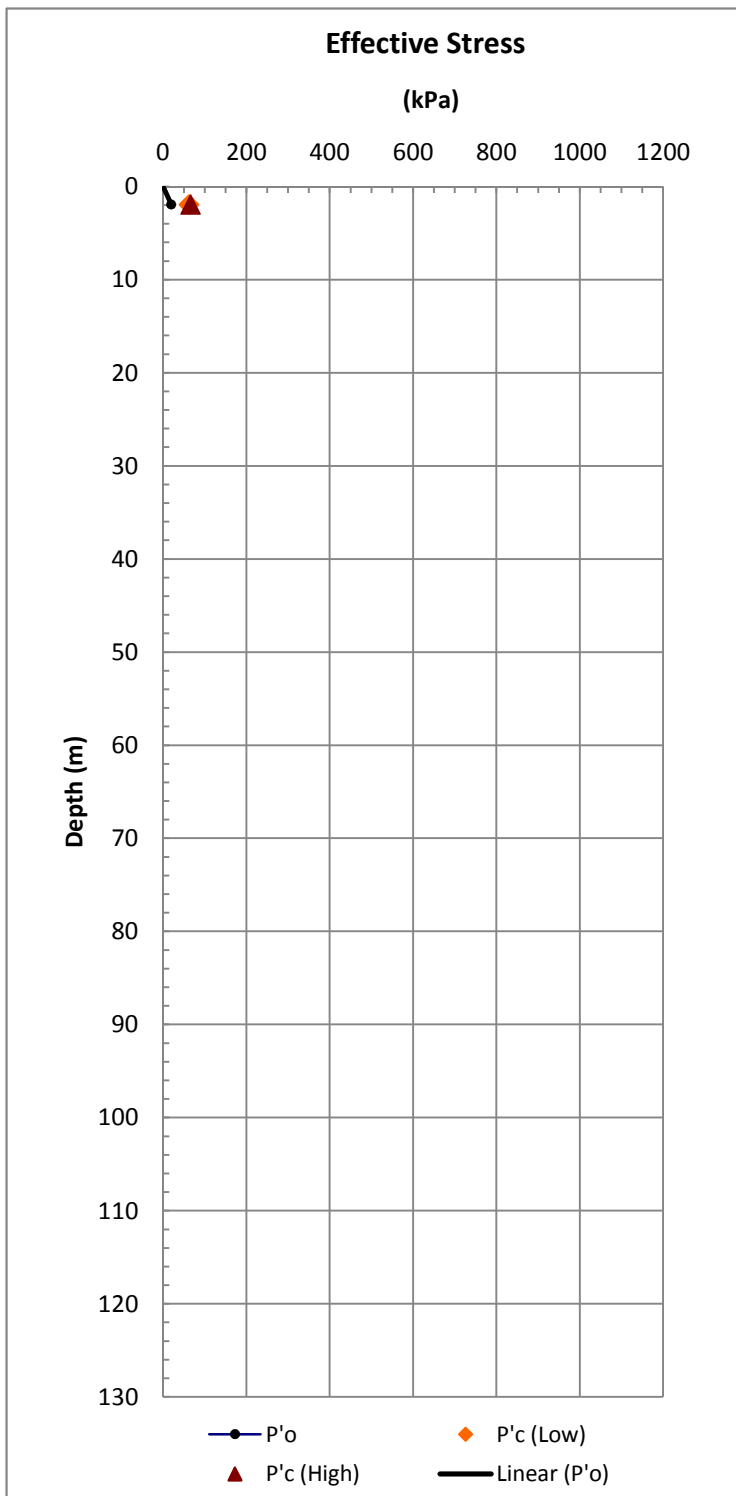
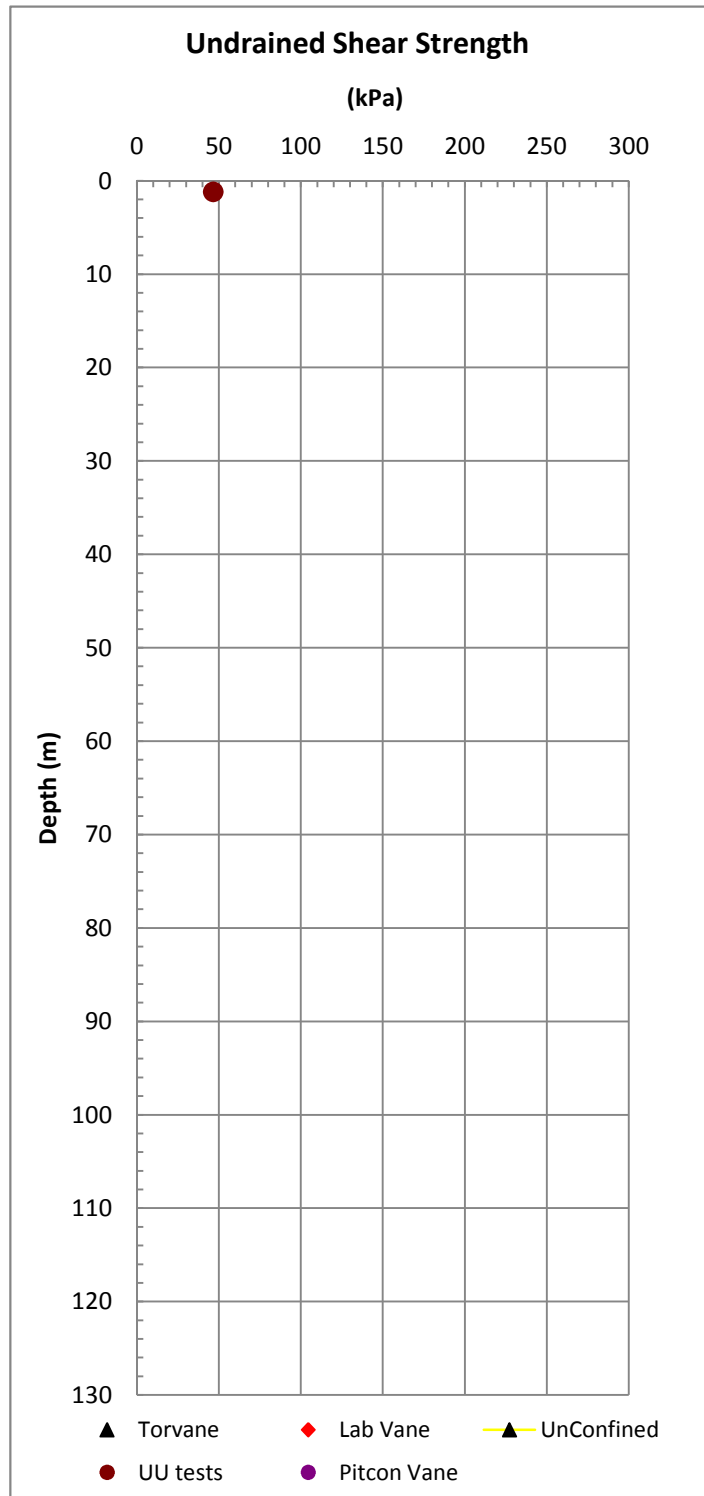
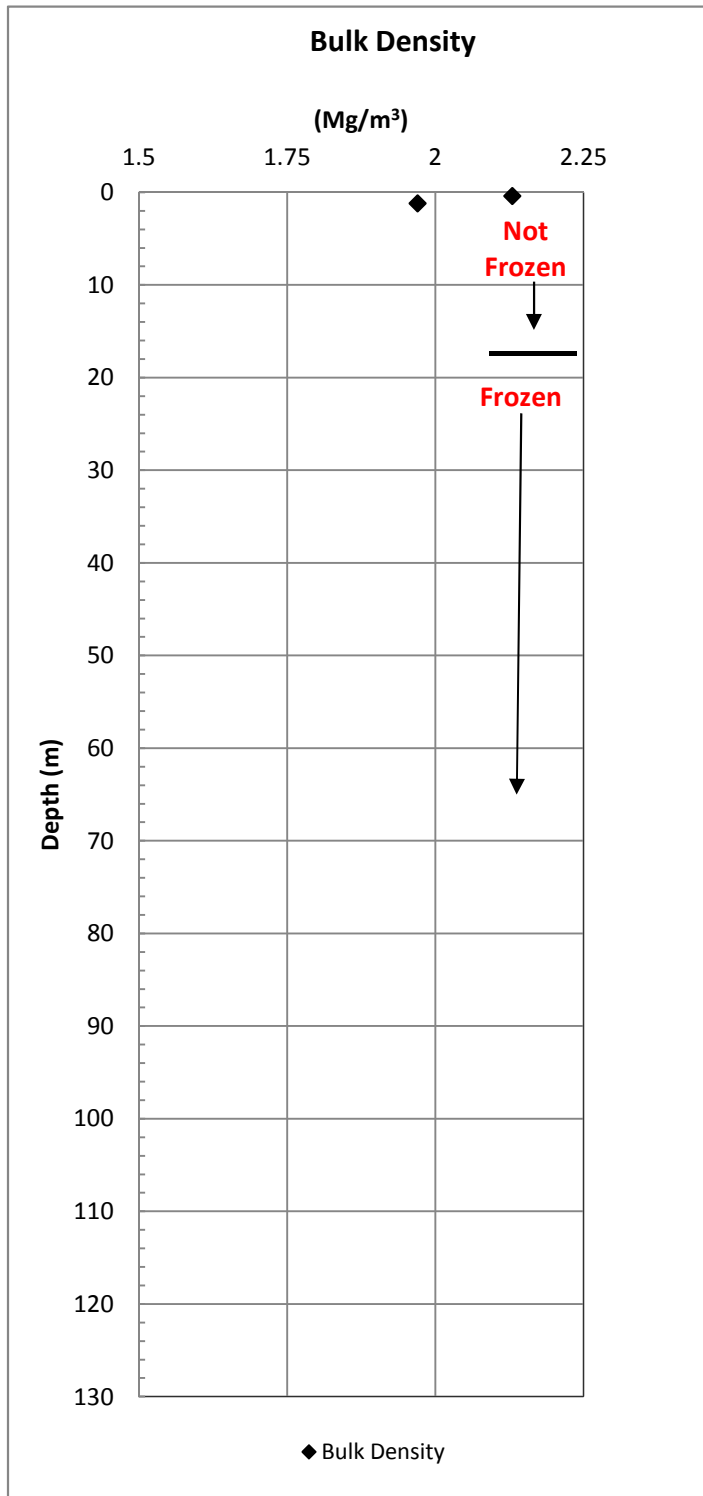


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East Amauligak VC-07

Figure C.3

10033 Beaufort Data

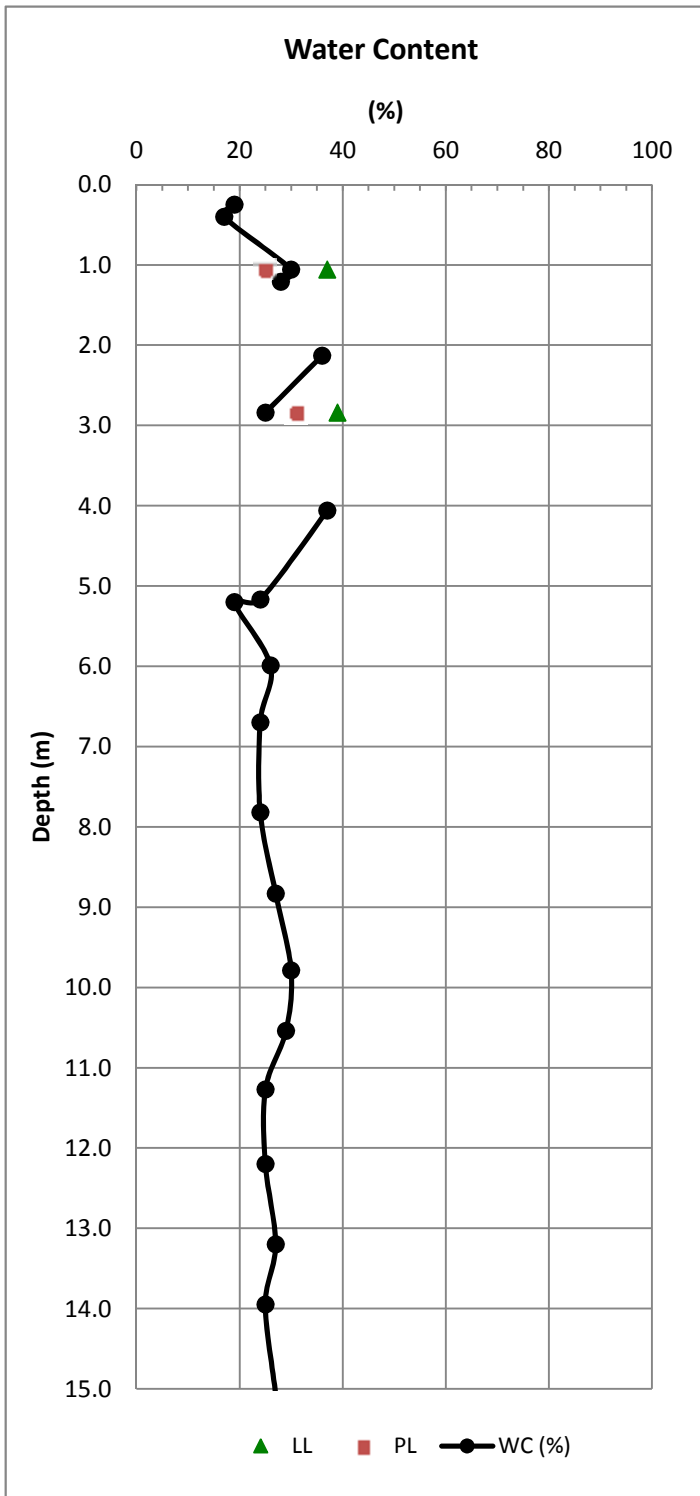
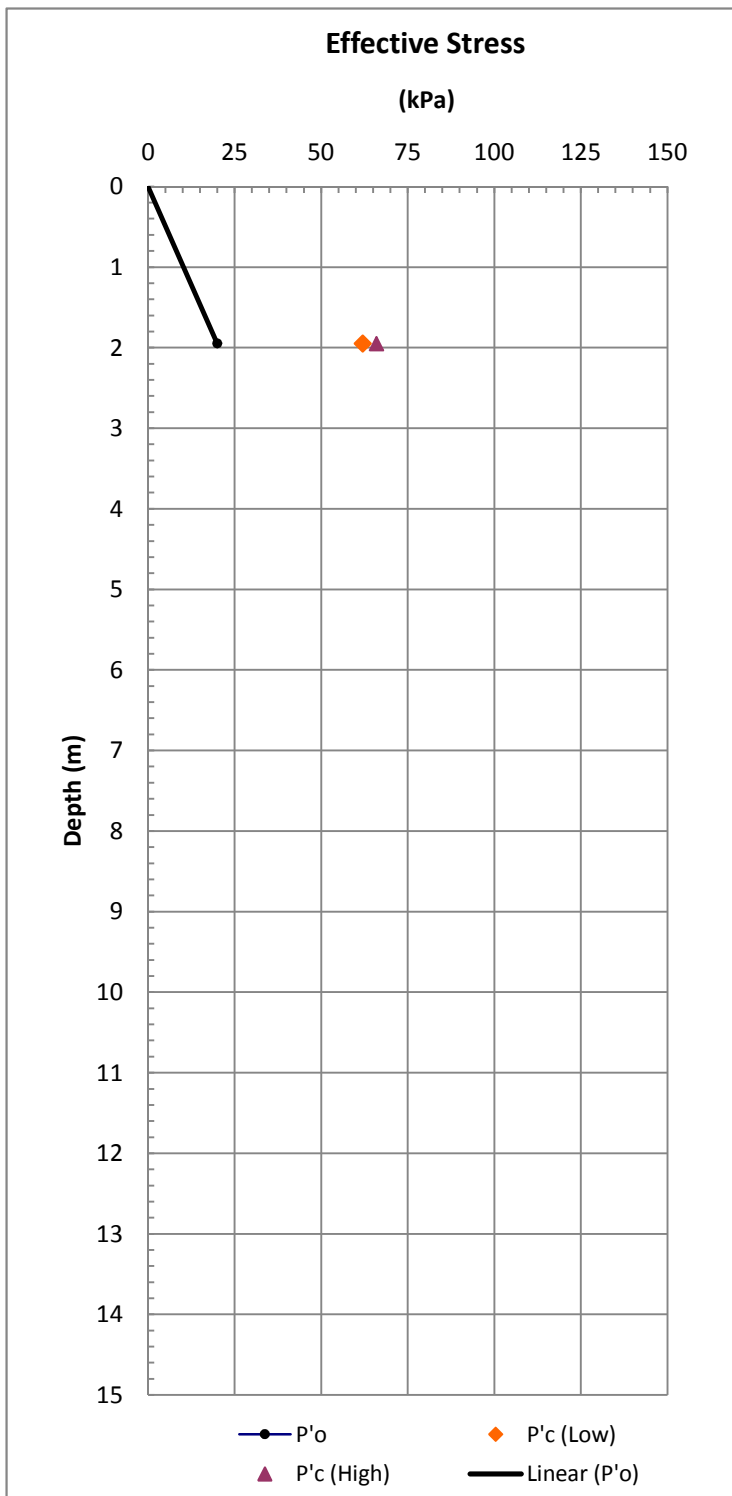
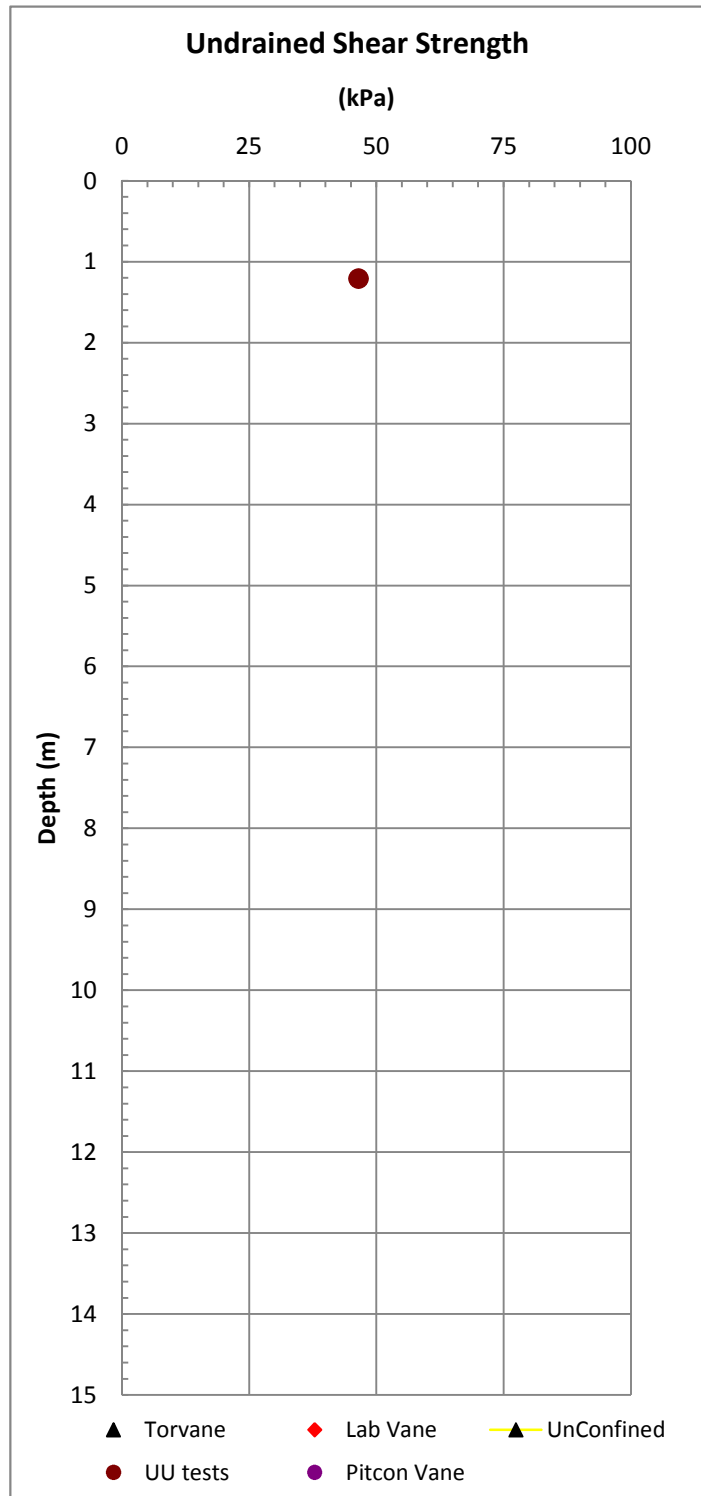
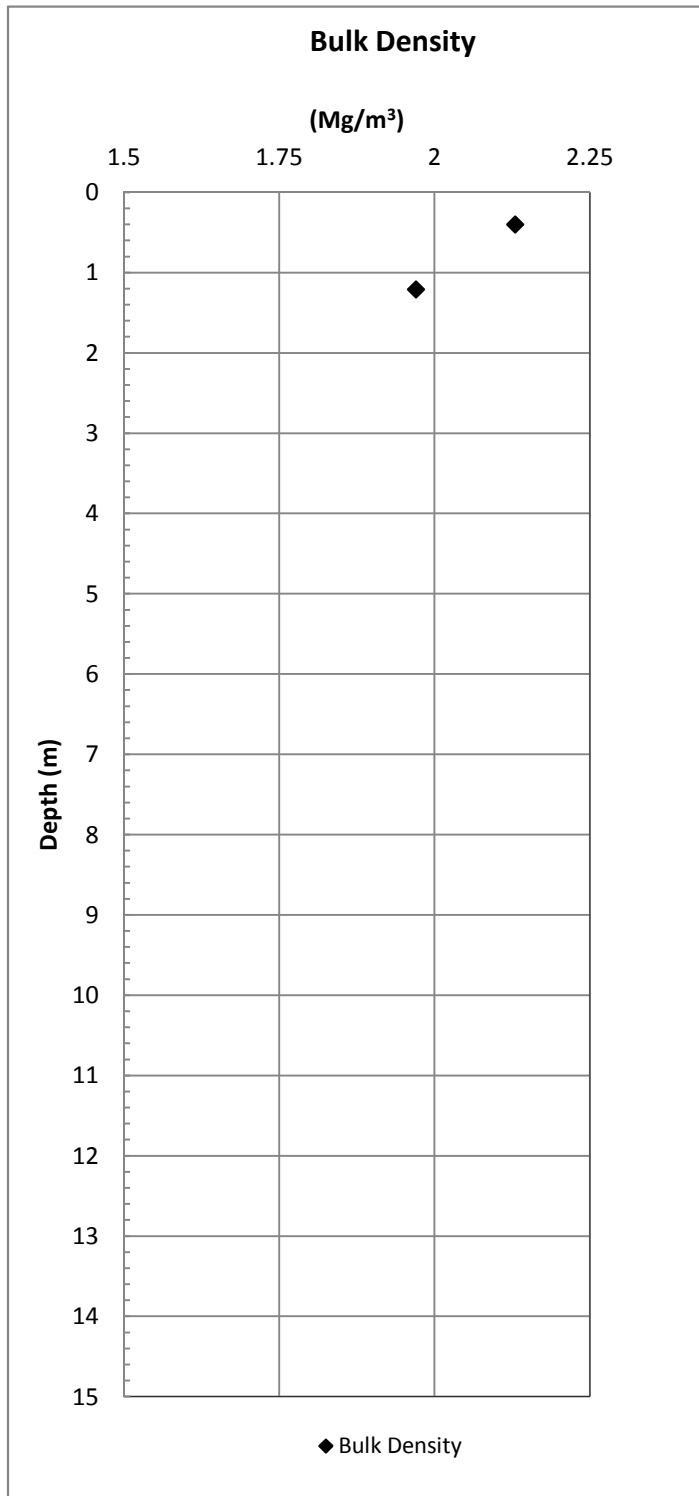


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Irkuluk B-35 Boring 1

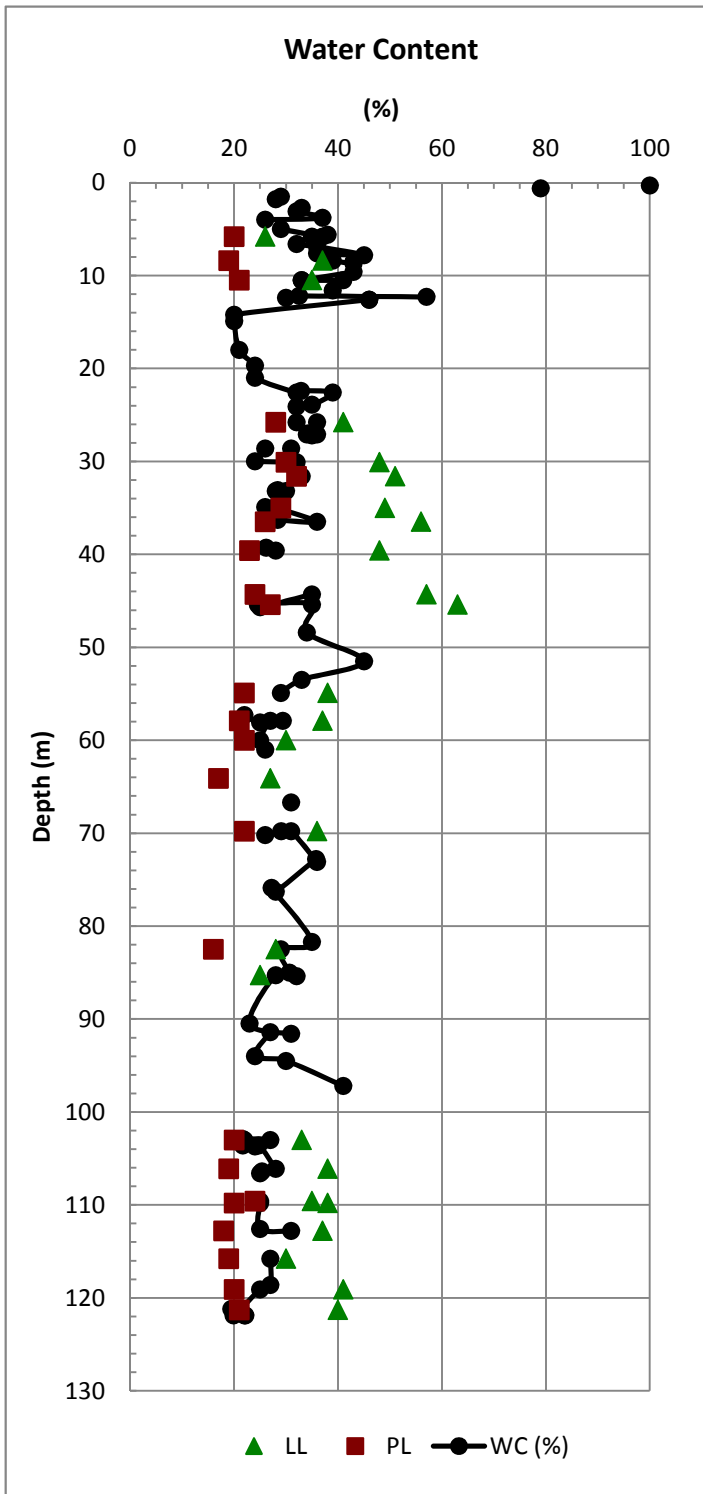
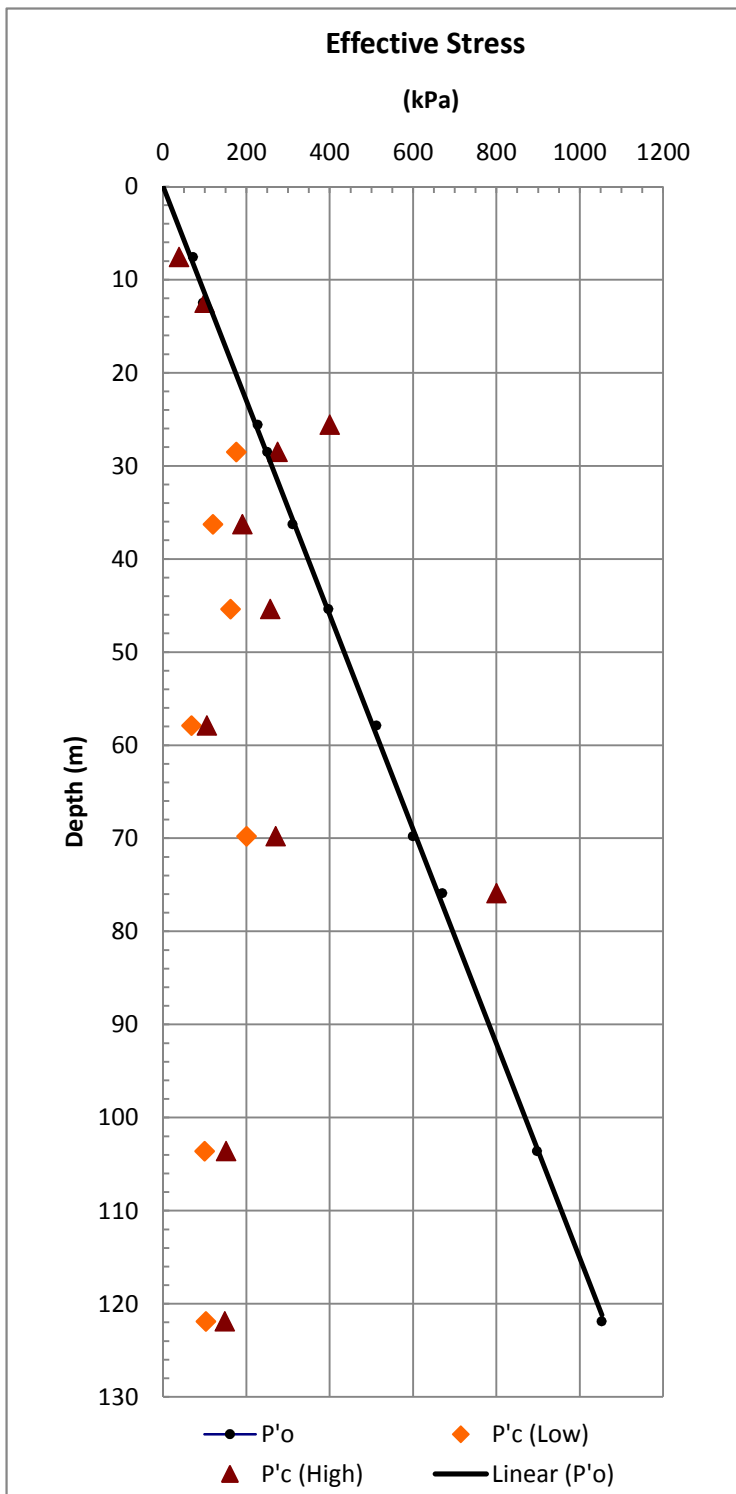
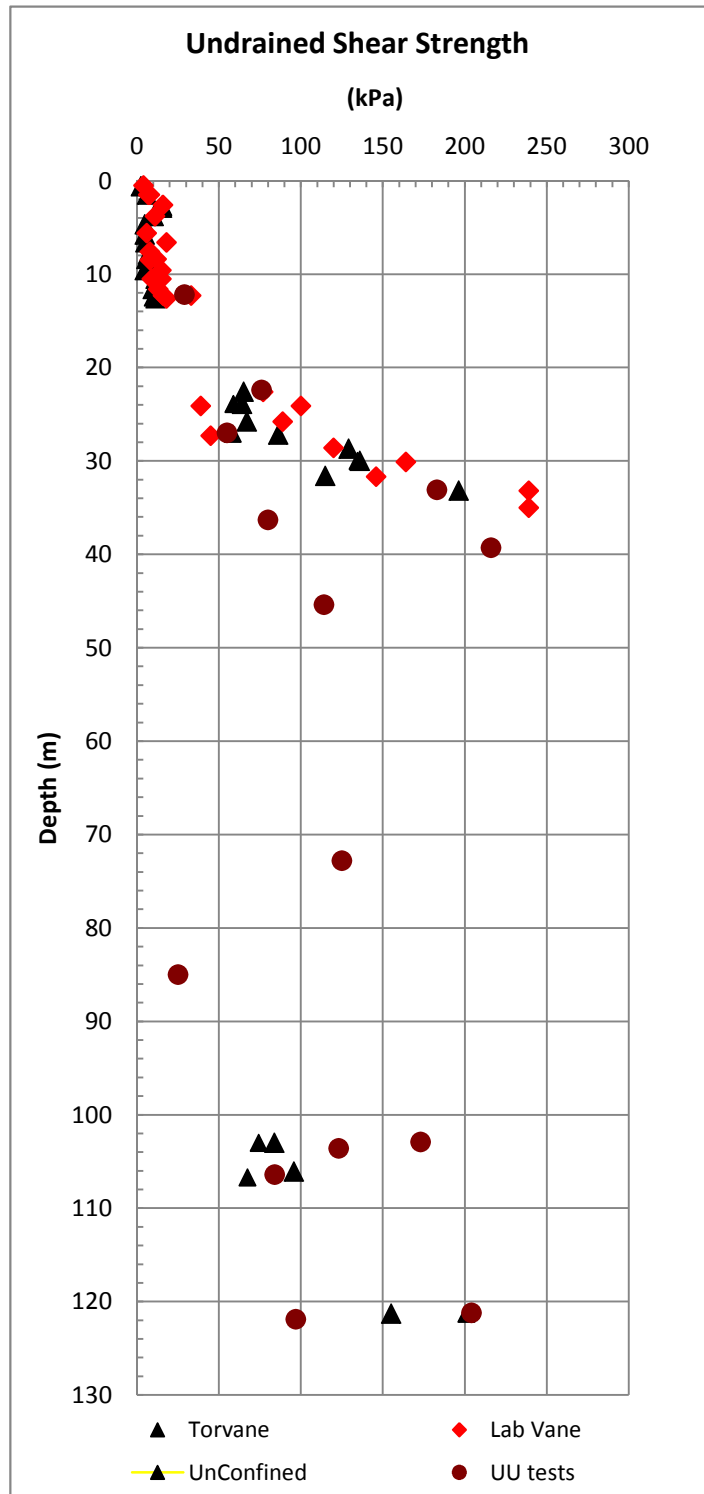
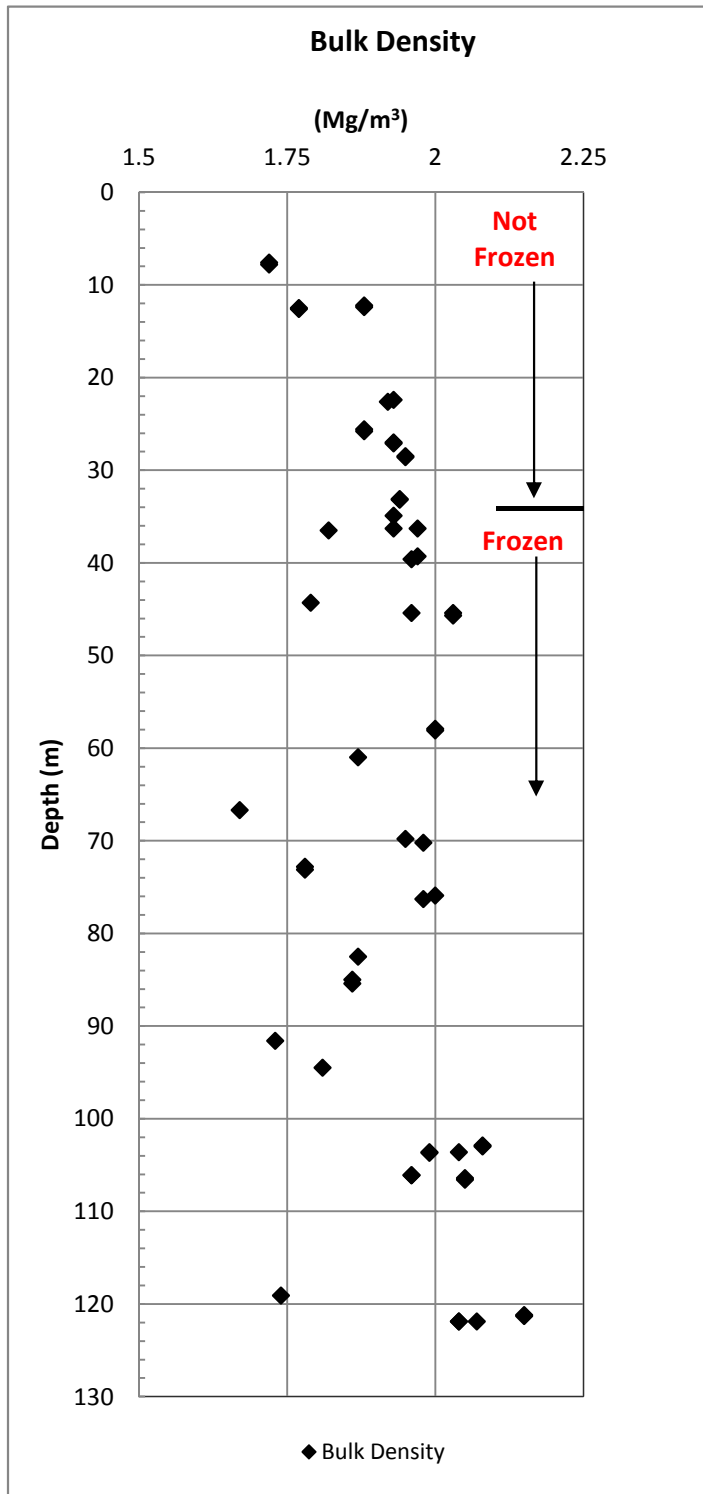
Figure C.3

10033 Beaufort Data



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Irkaluk B-35 Boring 1
Figure C.3
 10033 Beaufort Data

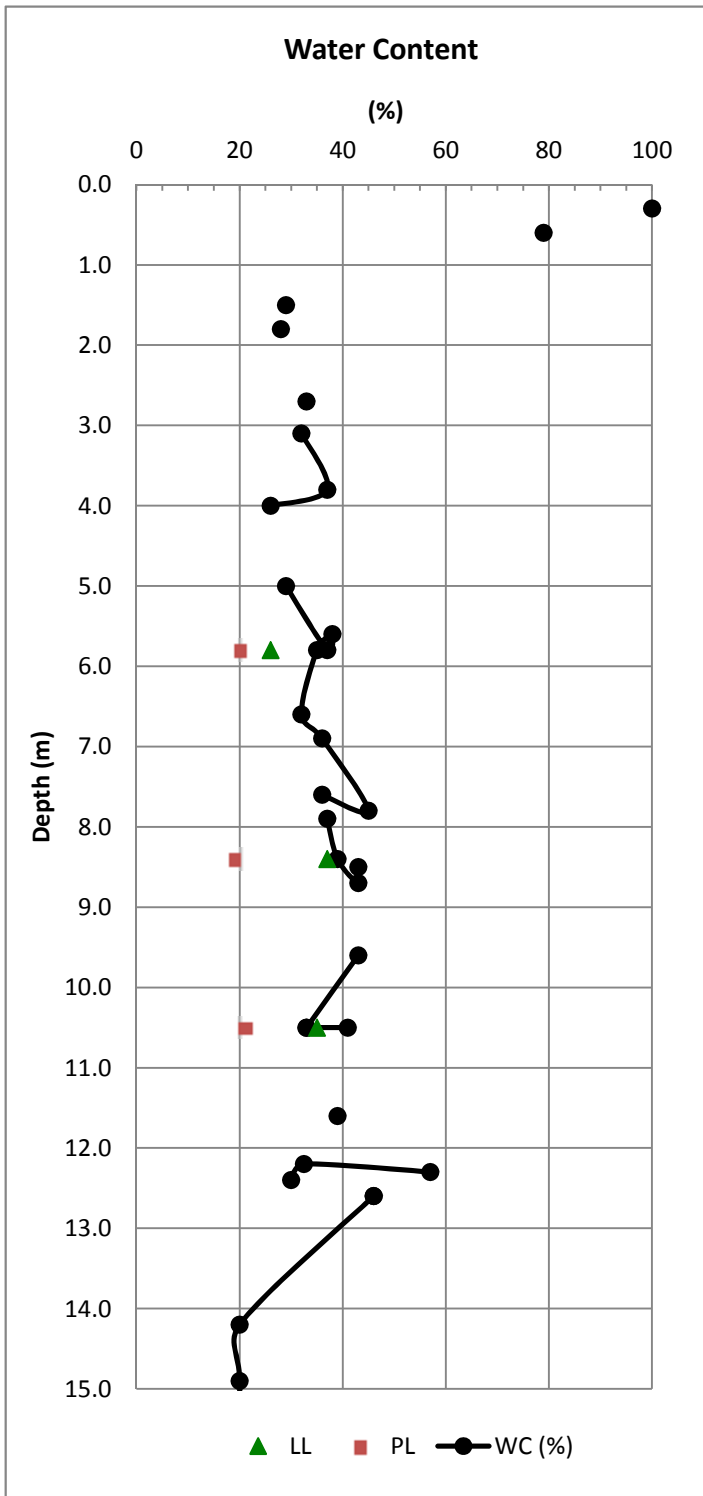
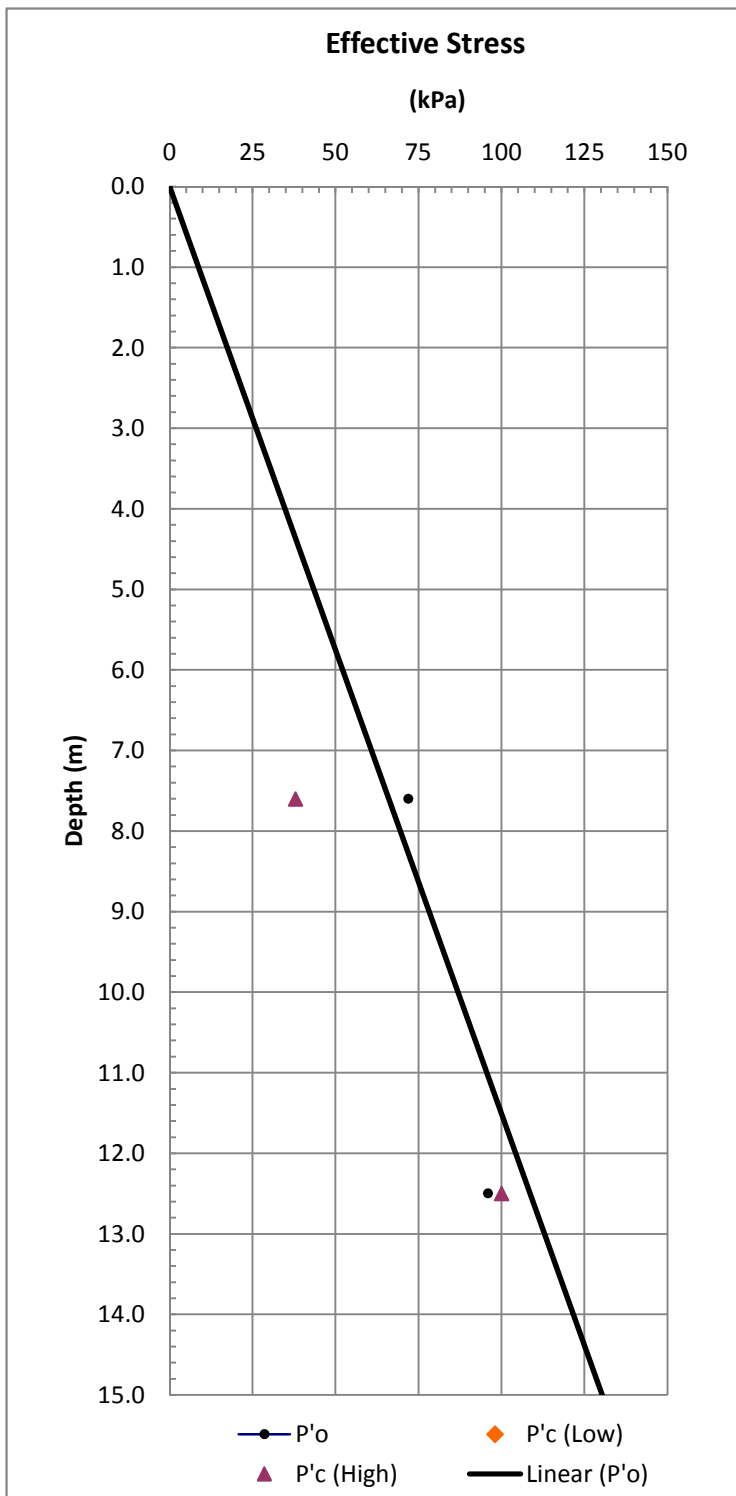
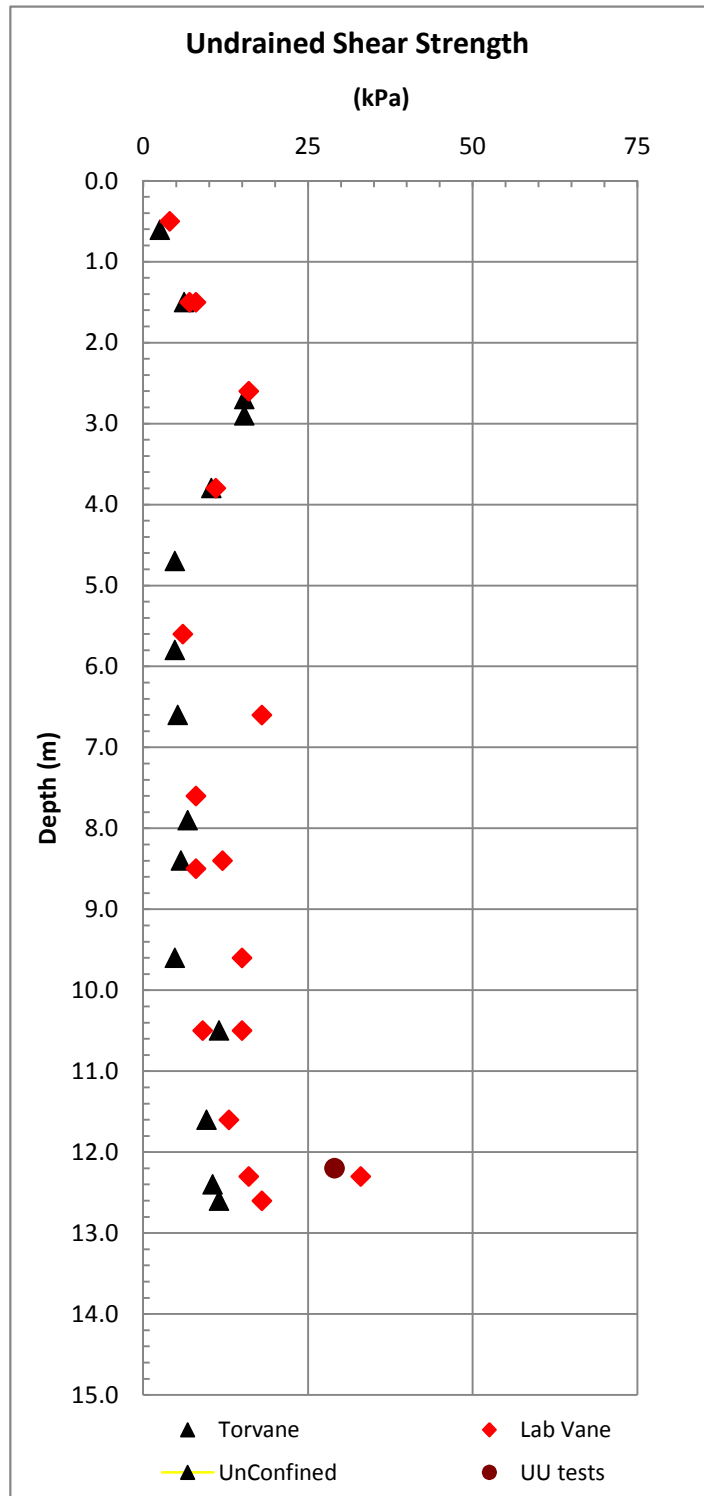
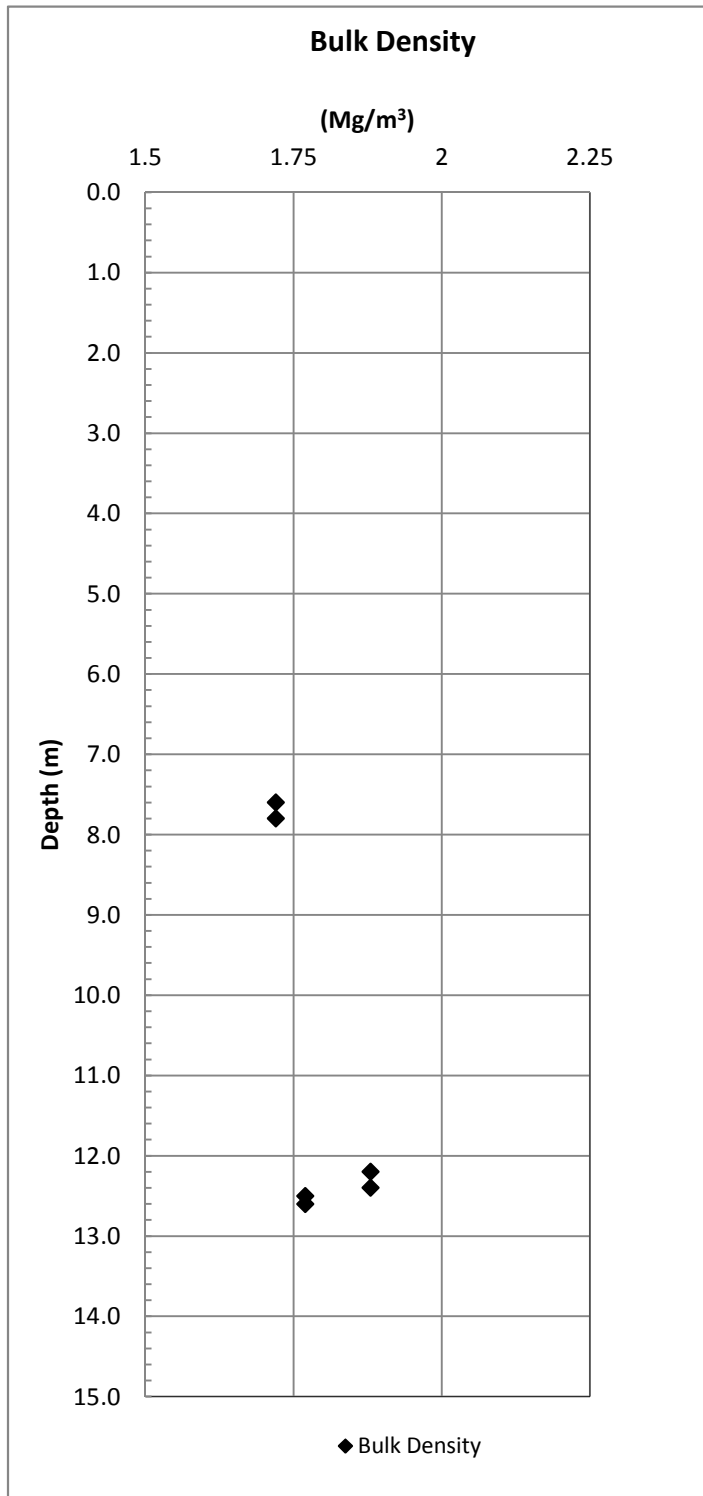


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Kenalook J-94 Boring 6: Deep

Figure C.3

10033 Beaufort Data

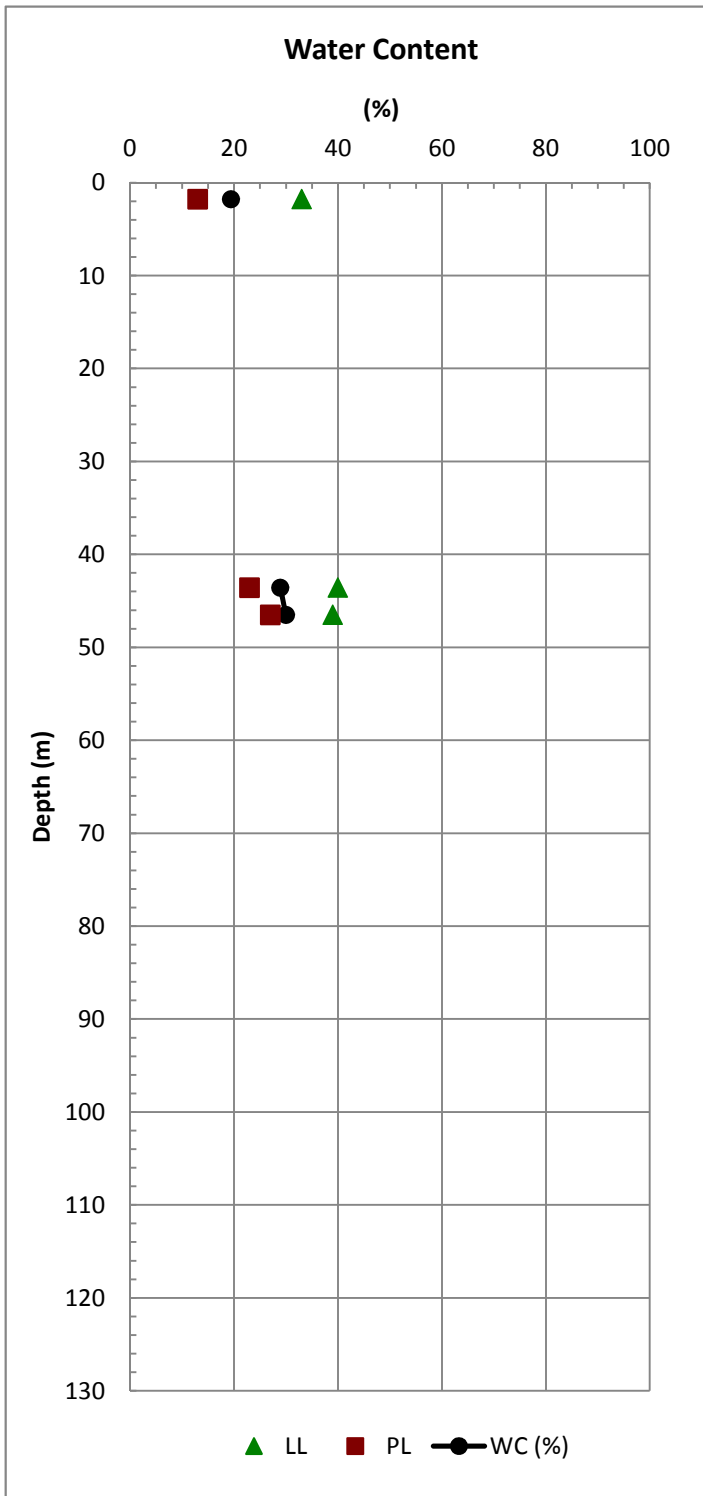
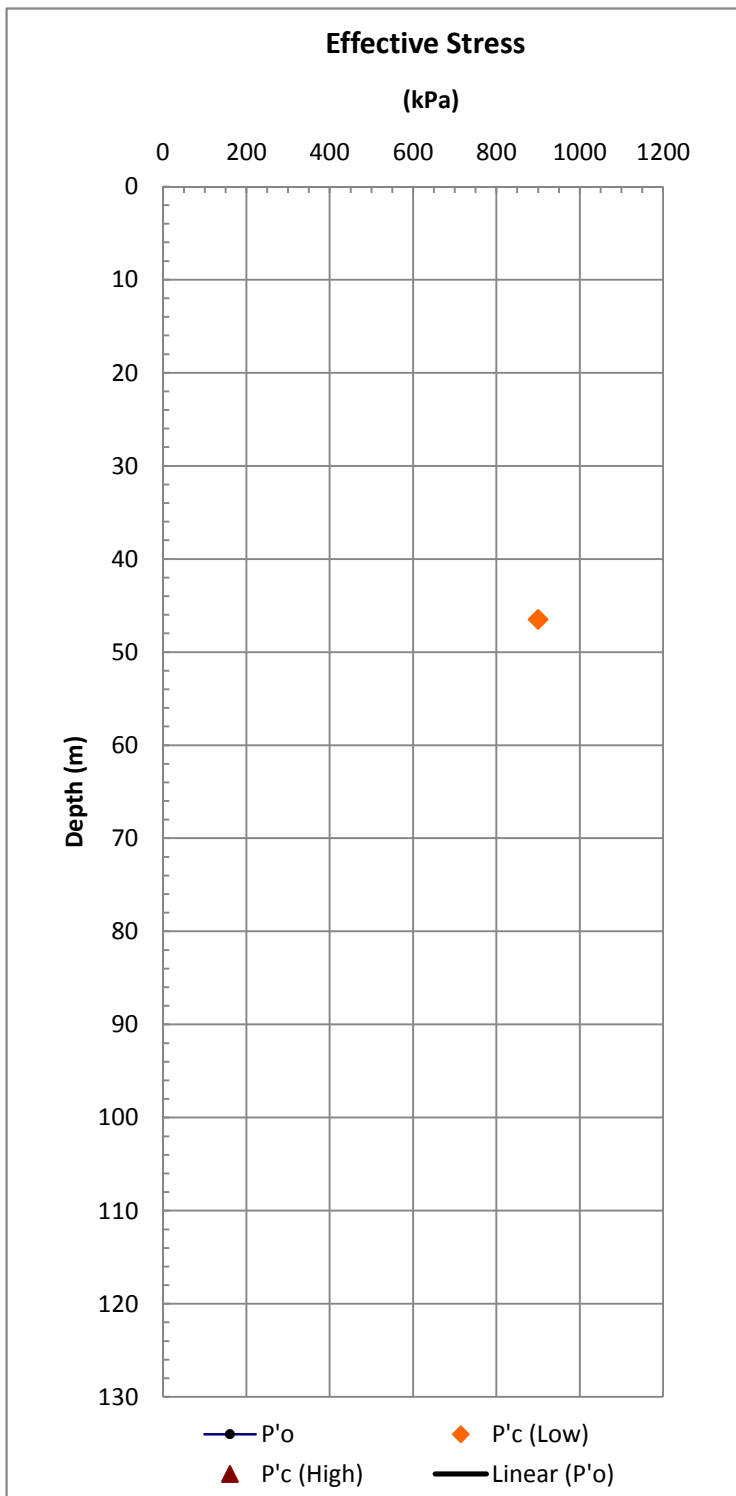
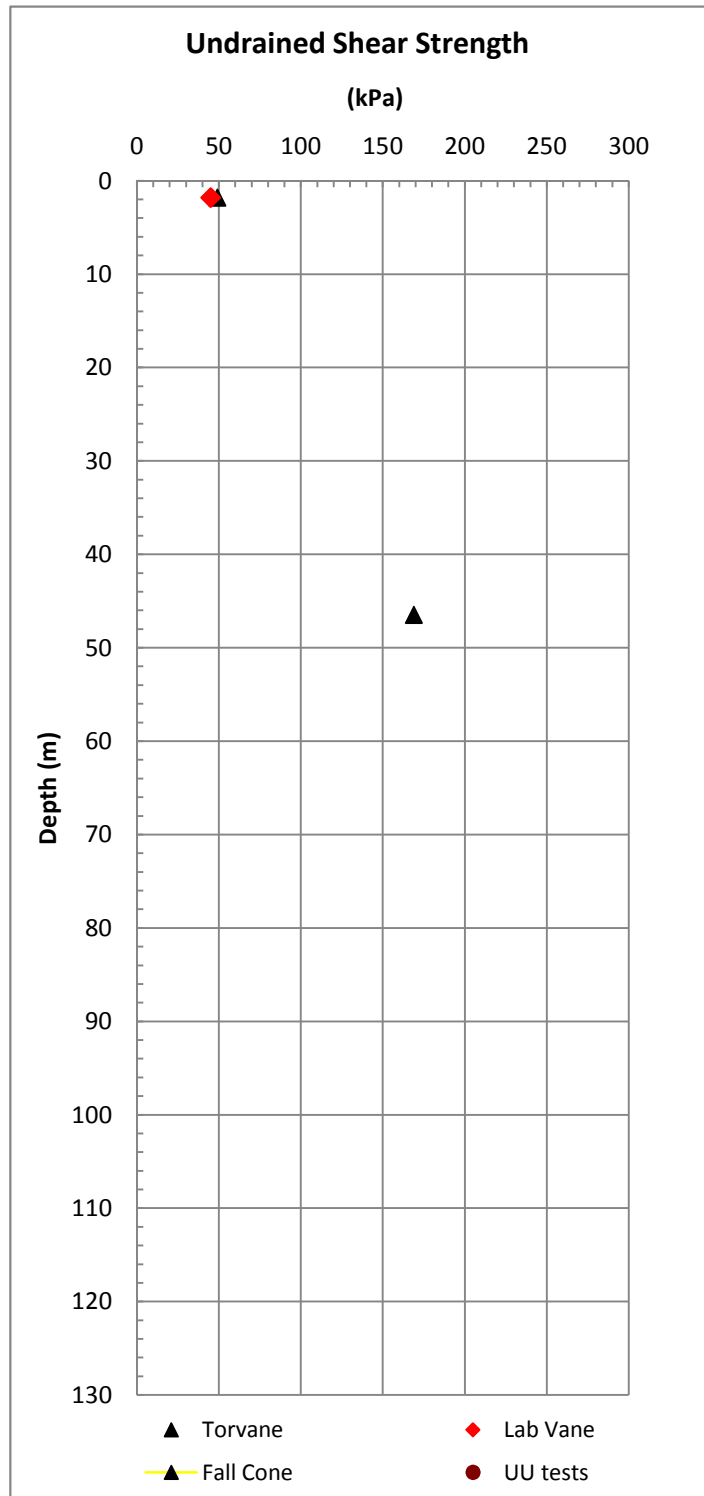
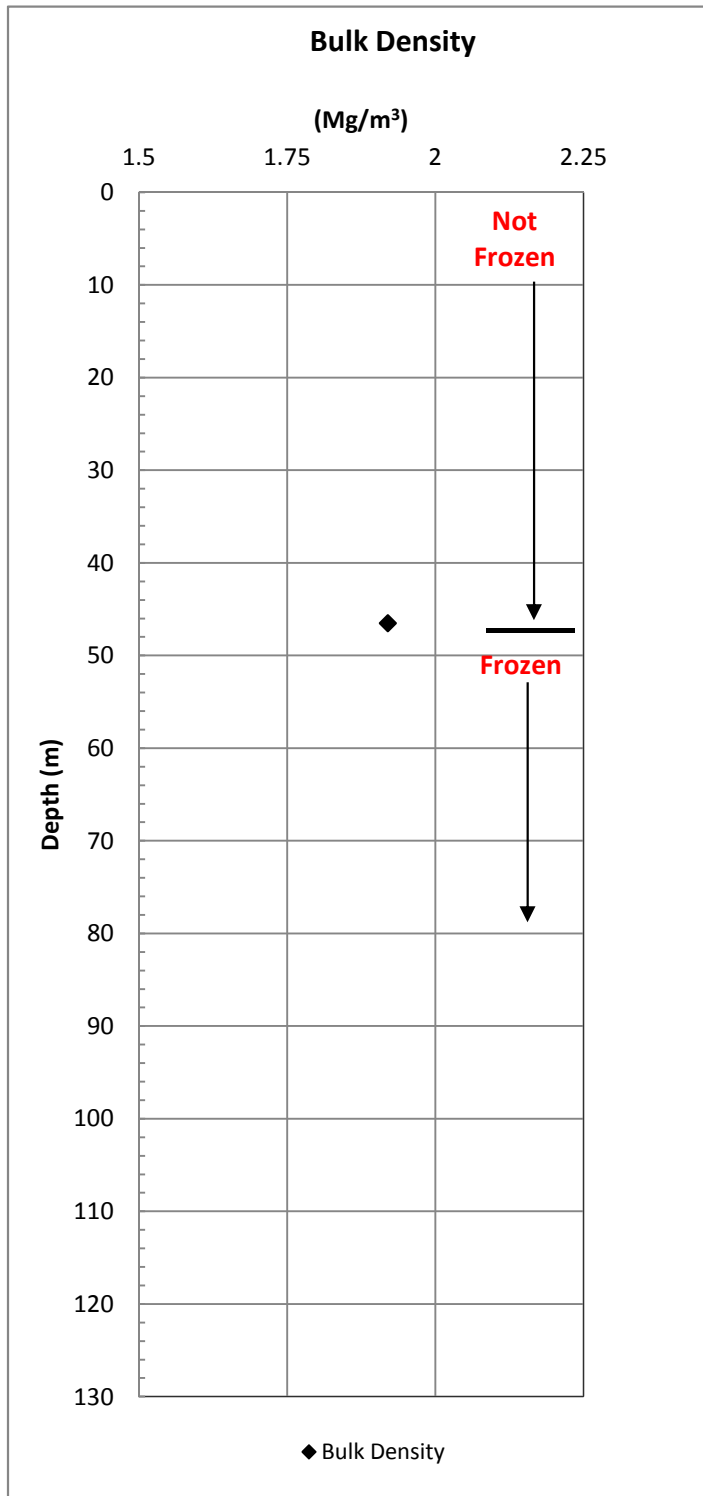


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Kenalooak J-94 Boring 6: Deep

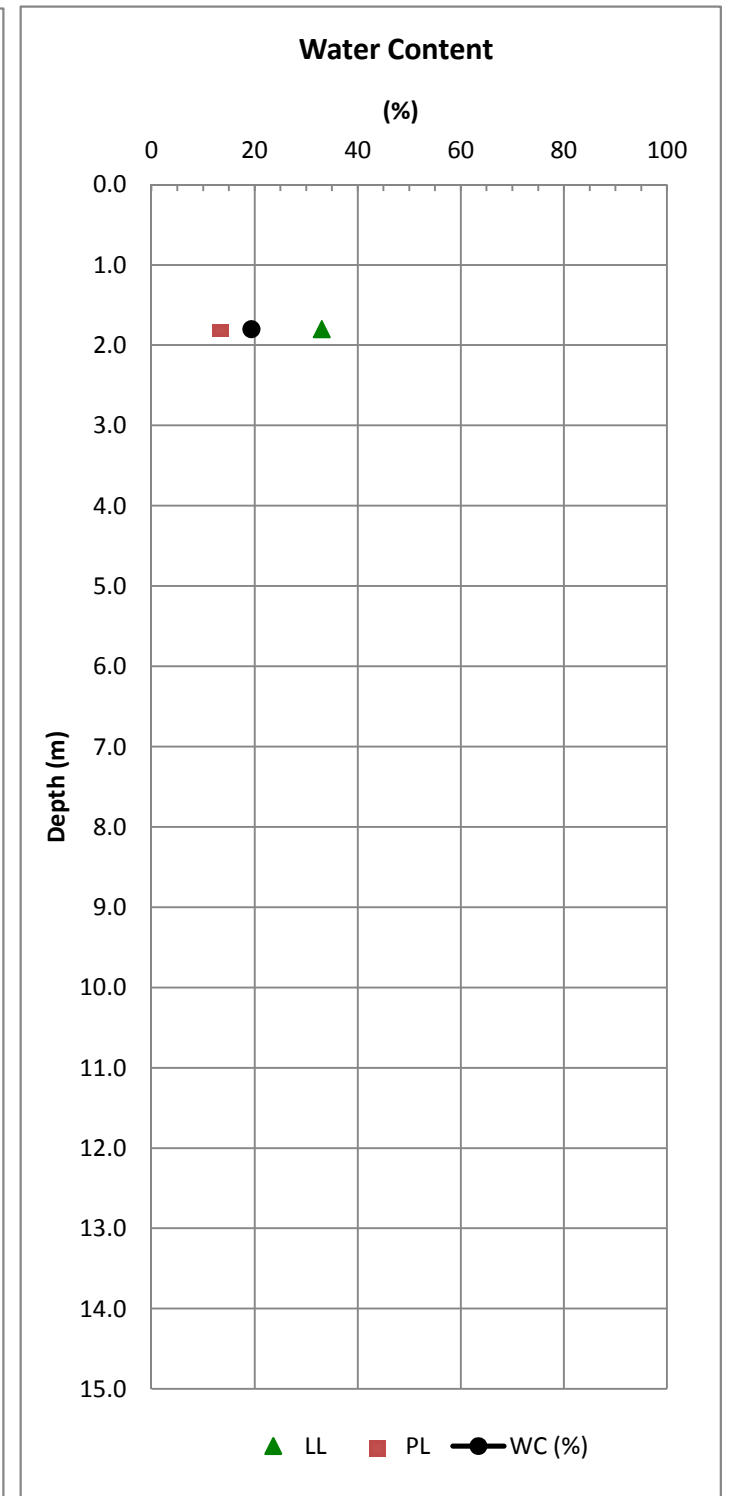
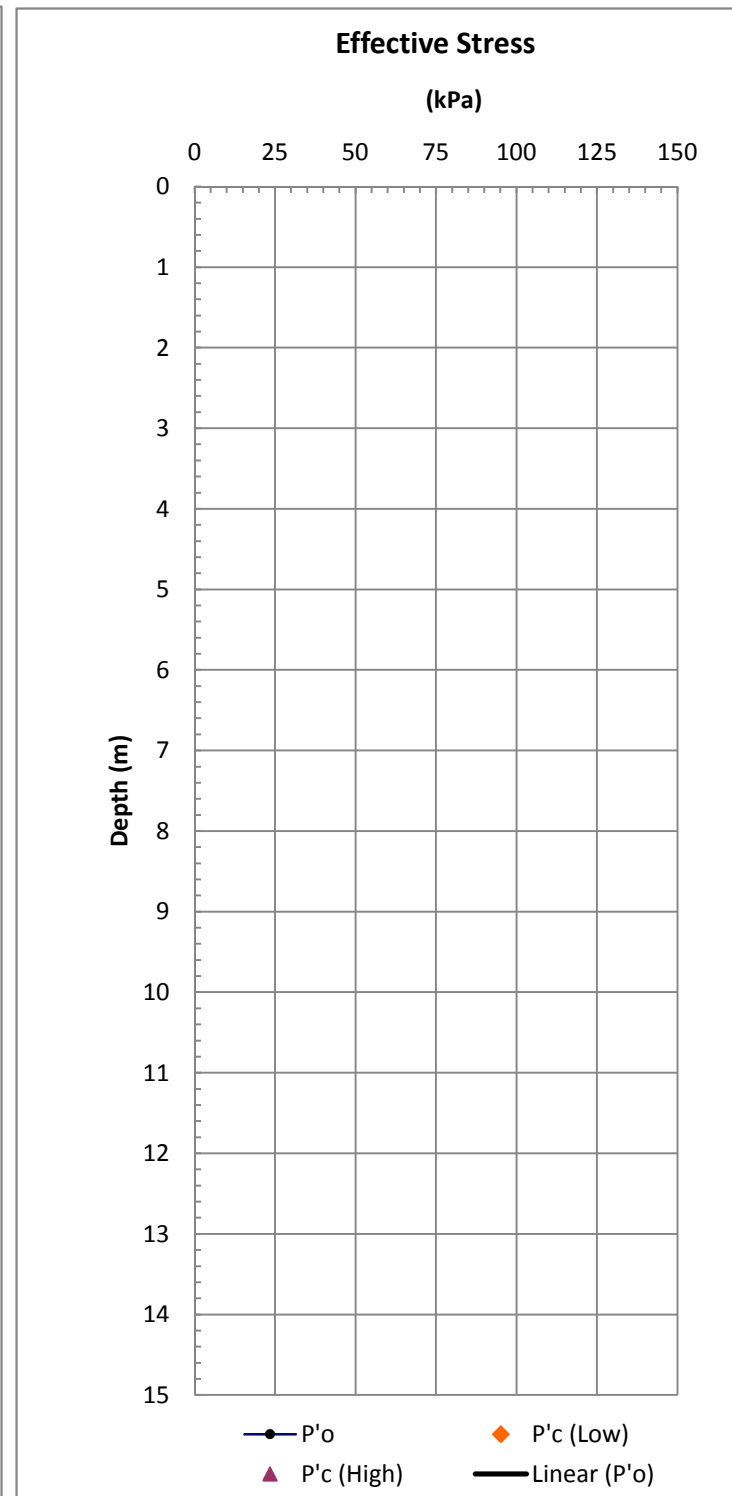
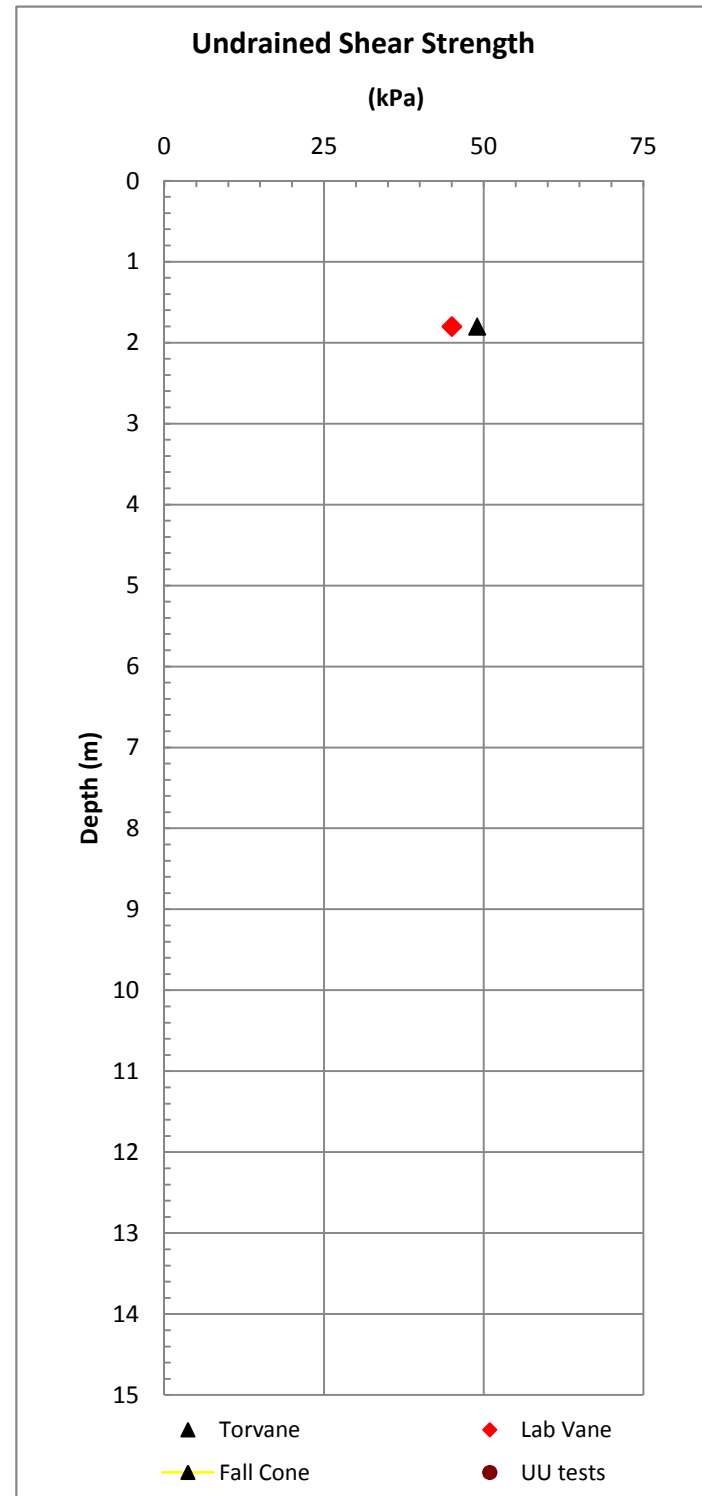
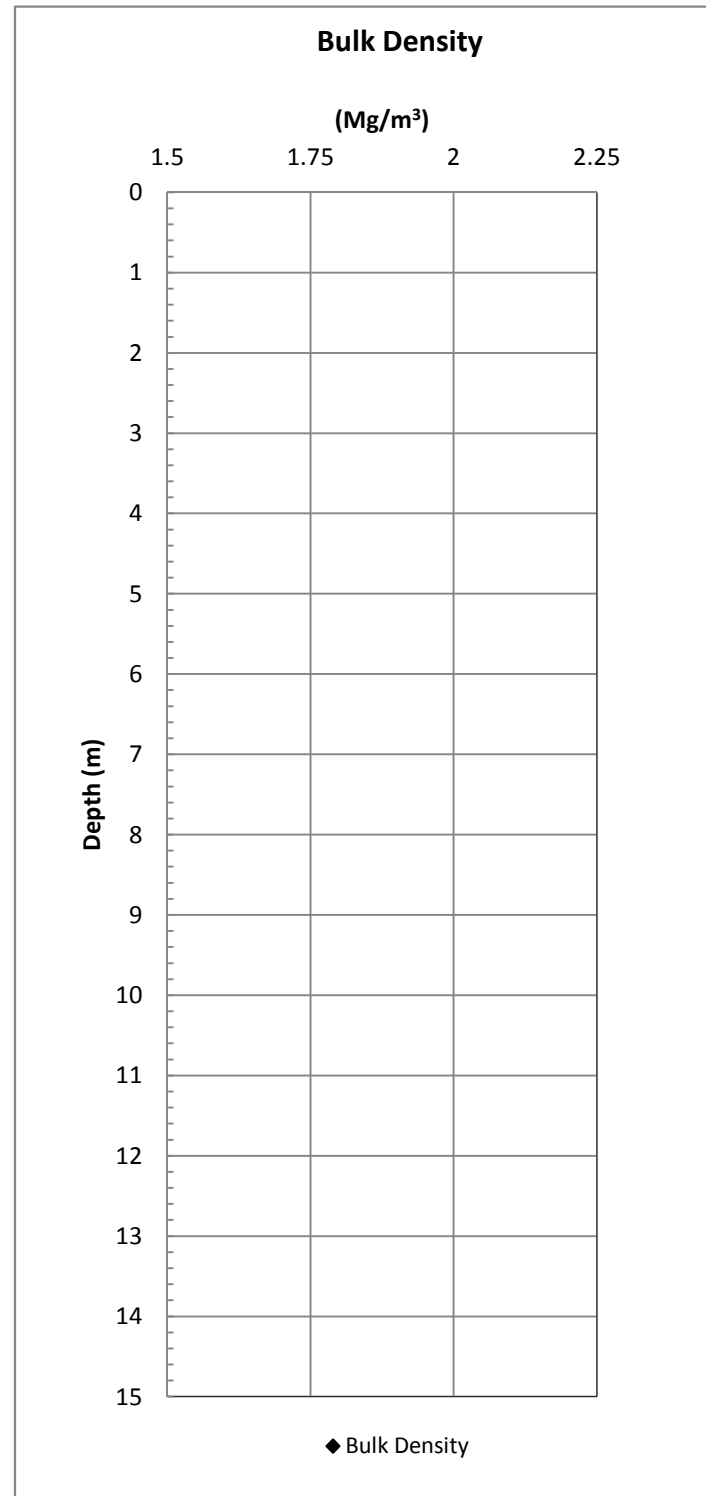
Figure C.3

10033 Beaufort Data



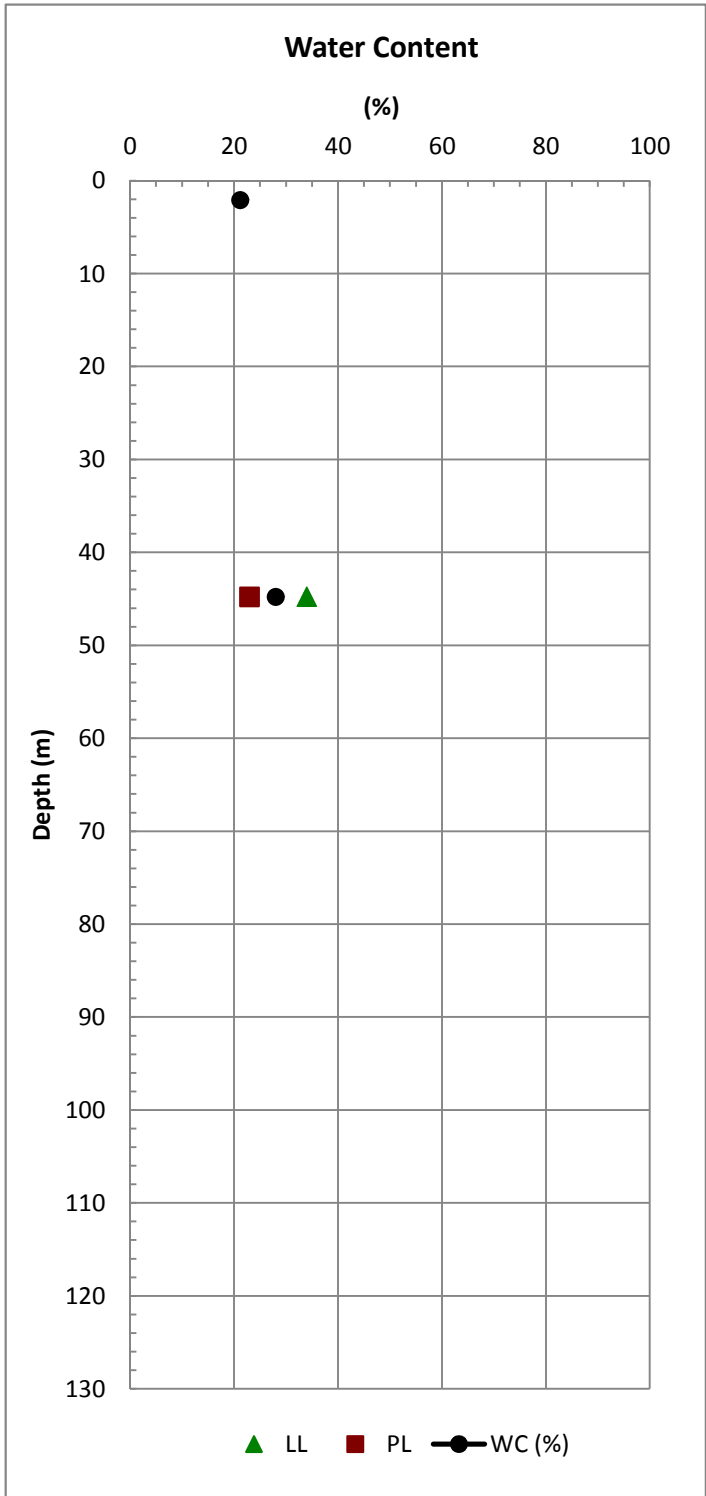
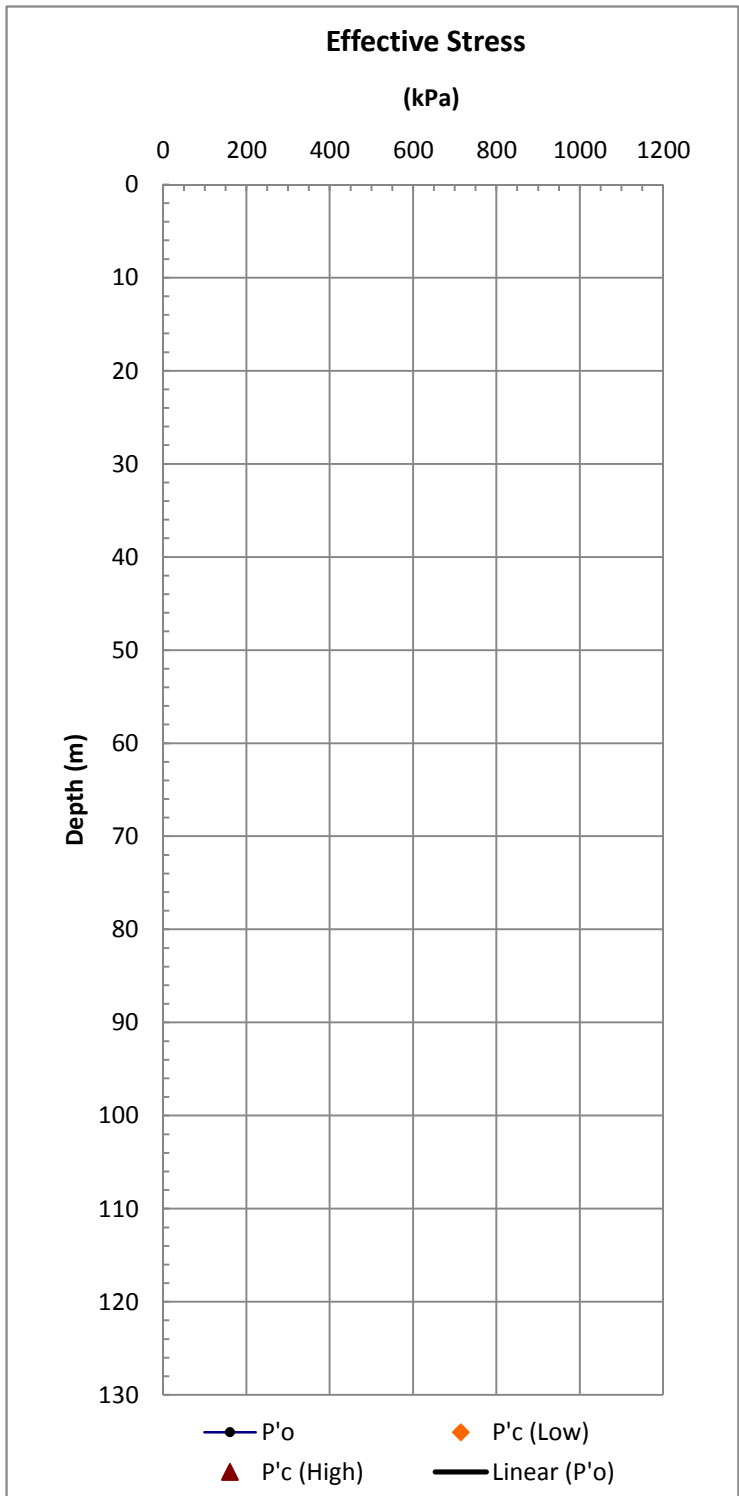
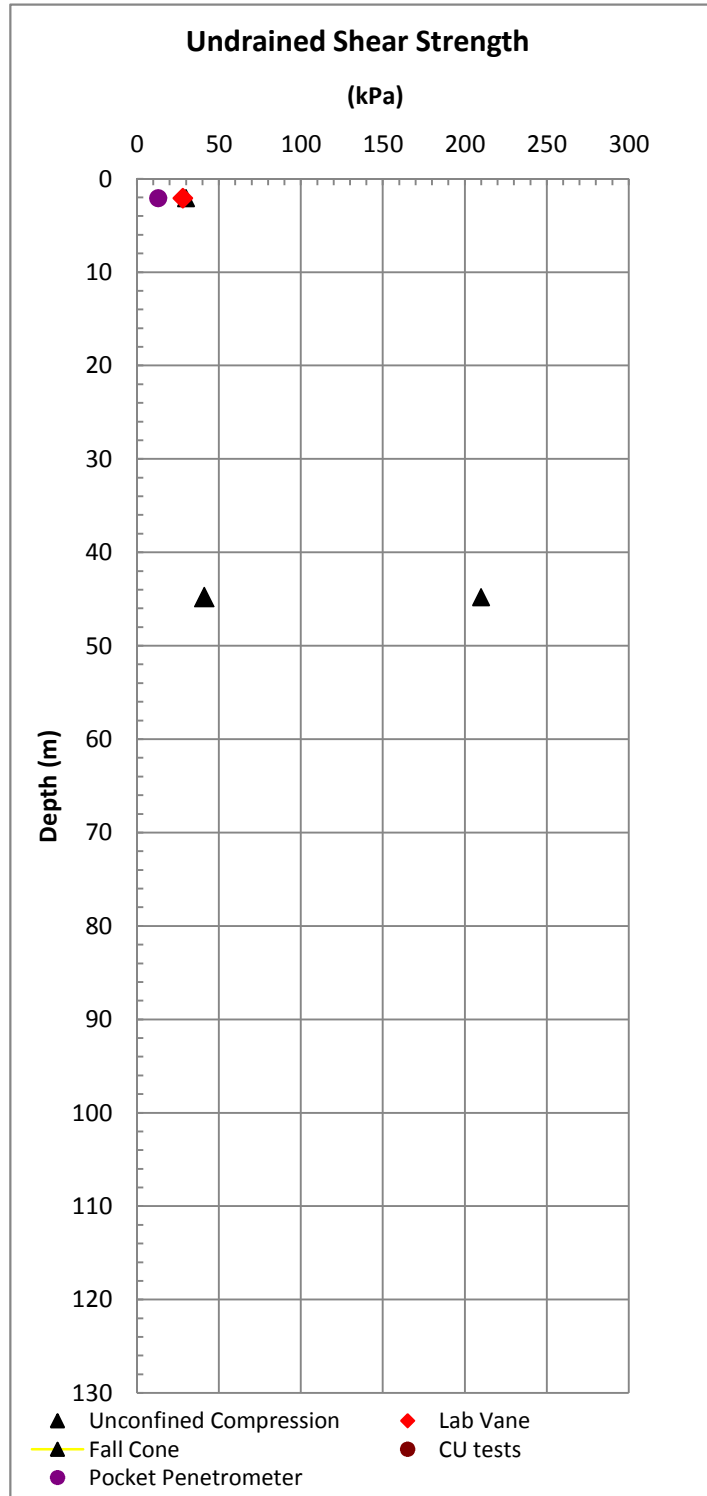
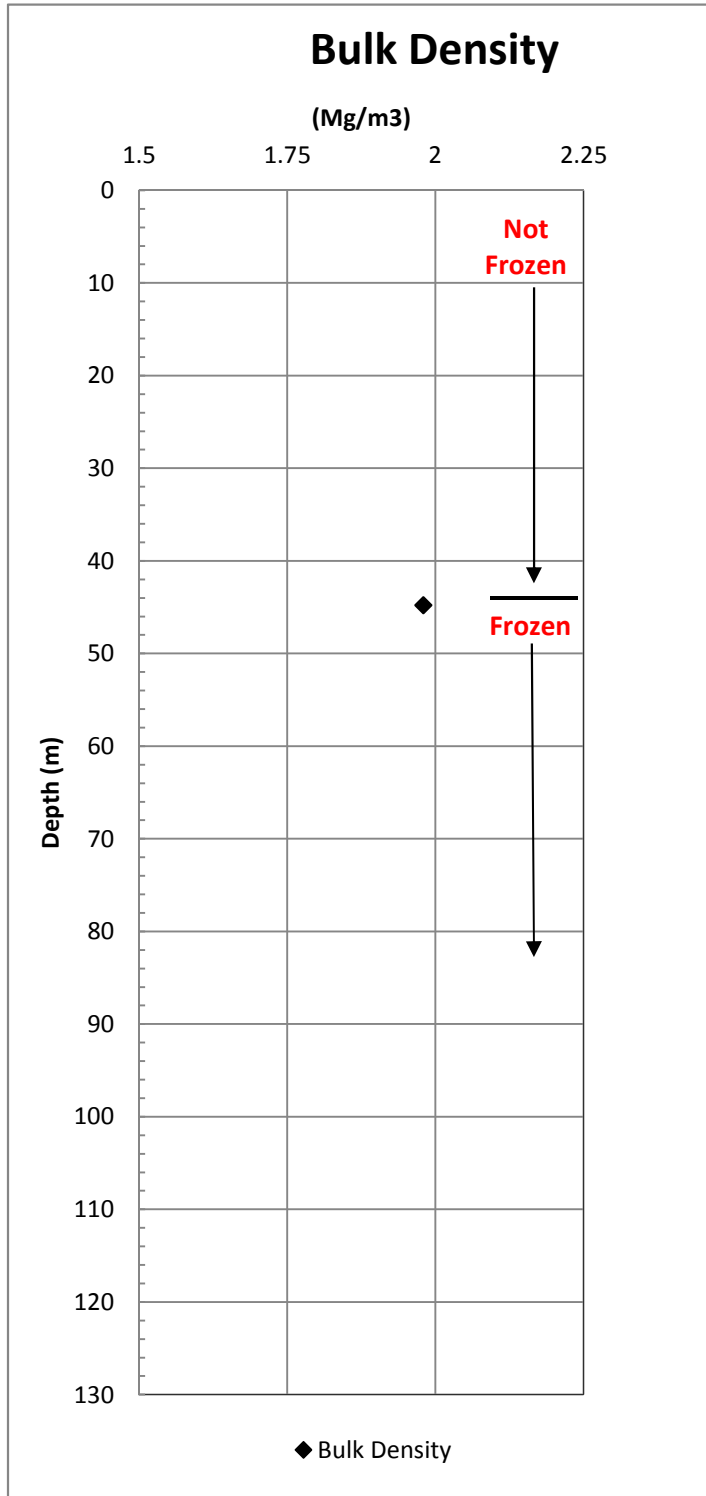
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Kogyuk BH-1
Figure C.3
 10033 Beaufort Data



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Kogyuk BH-1
Figure C.3
10033 Beaufort Data

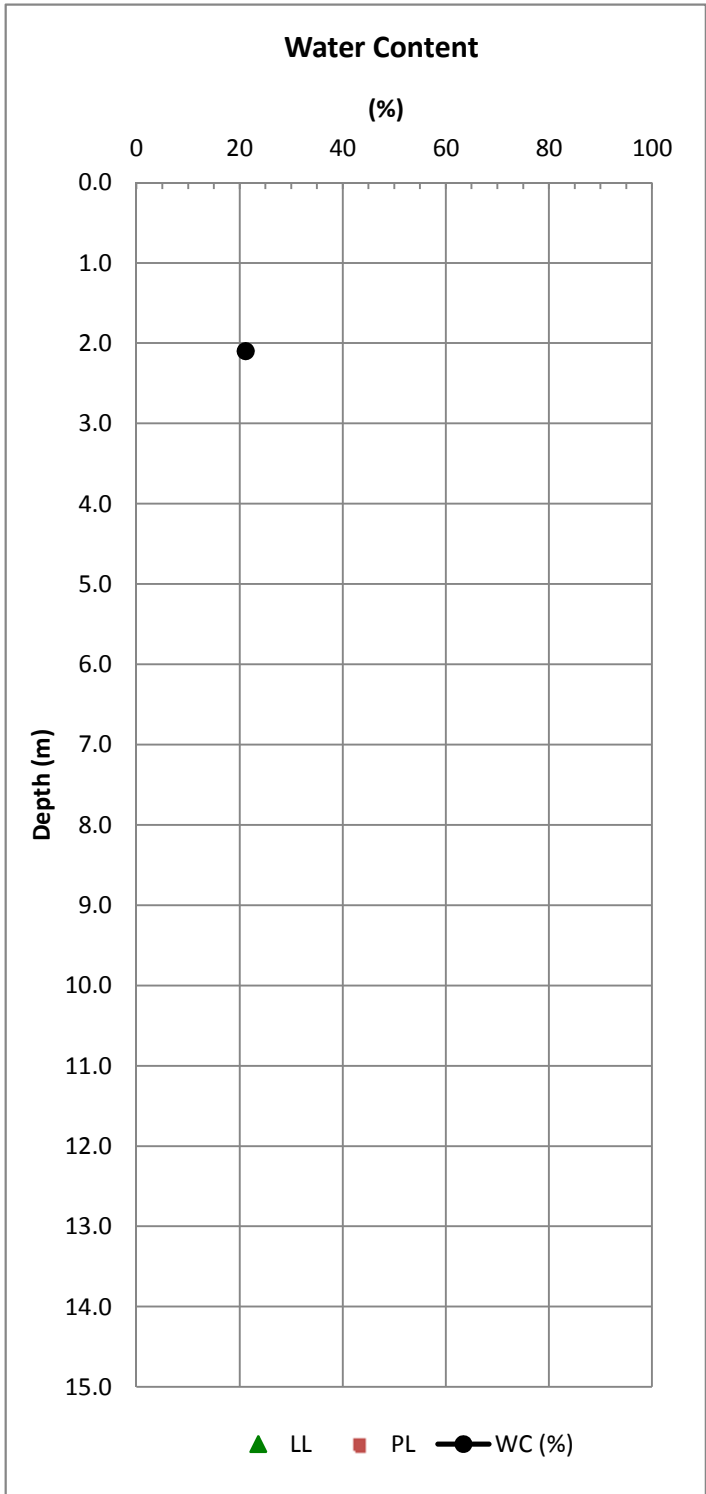
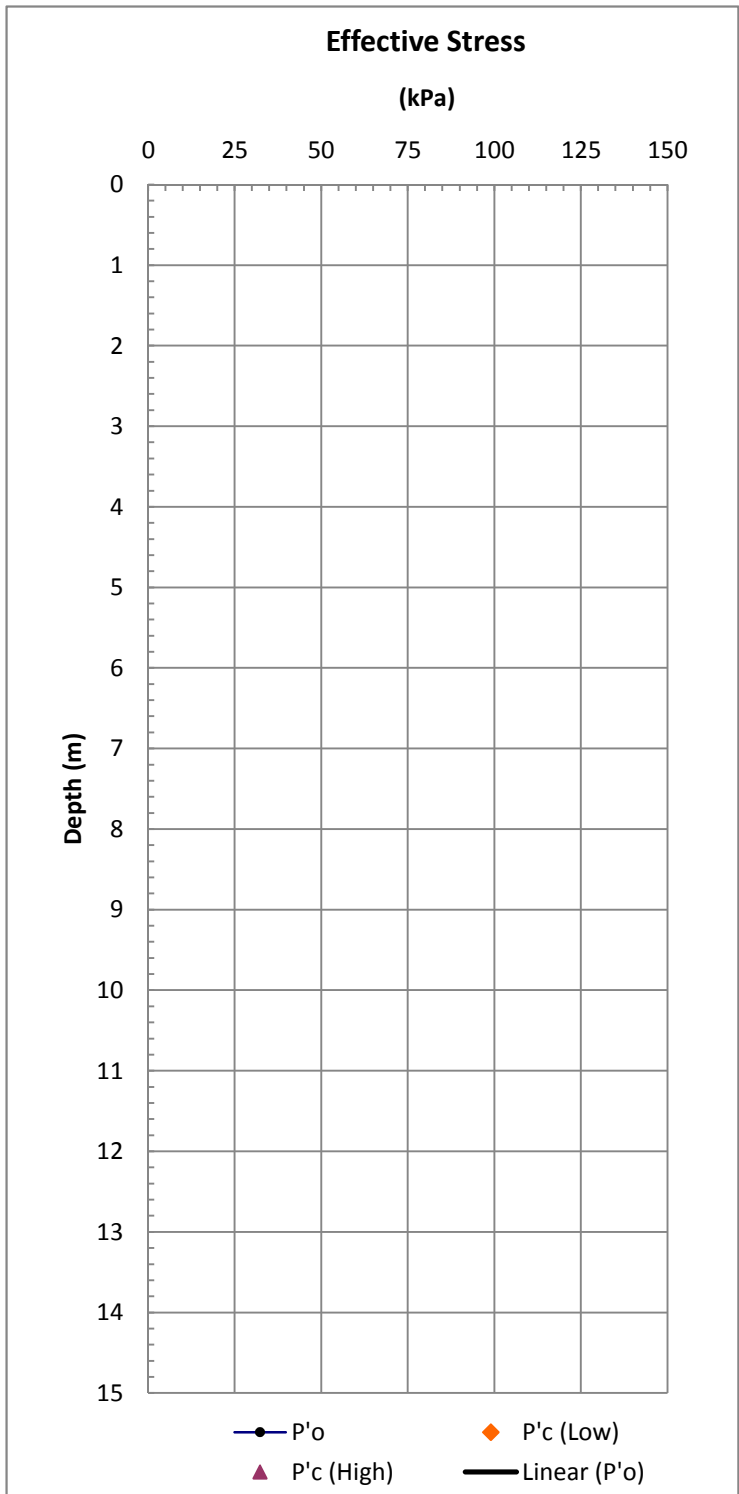
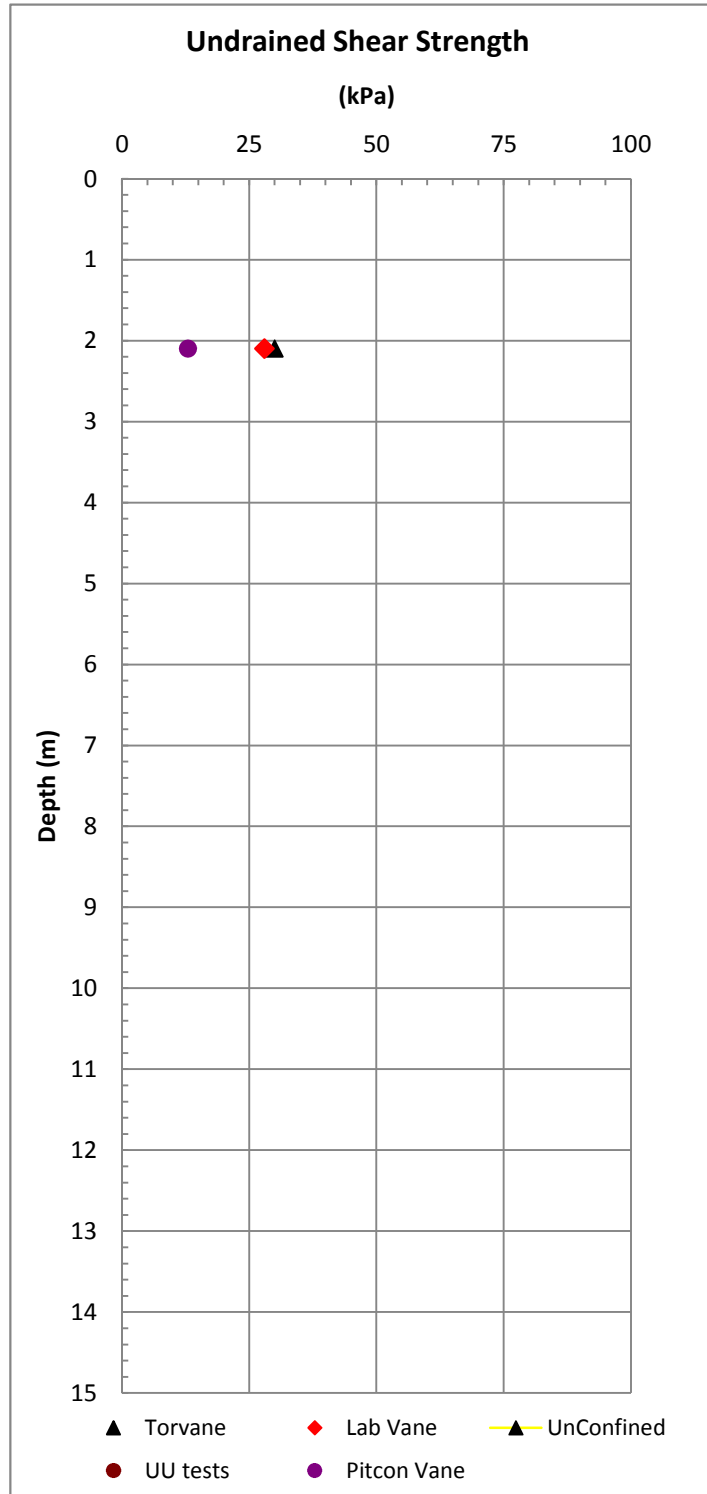
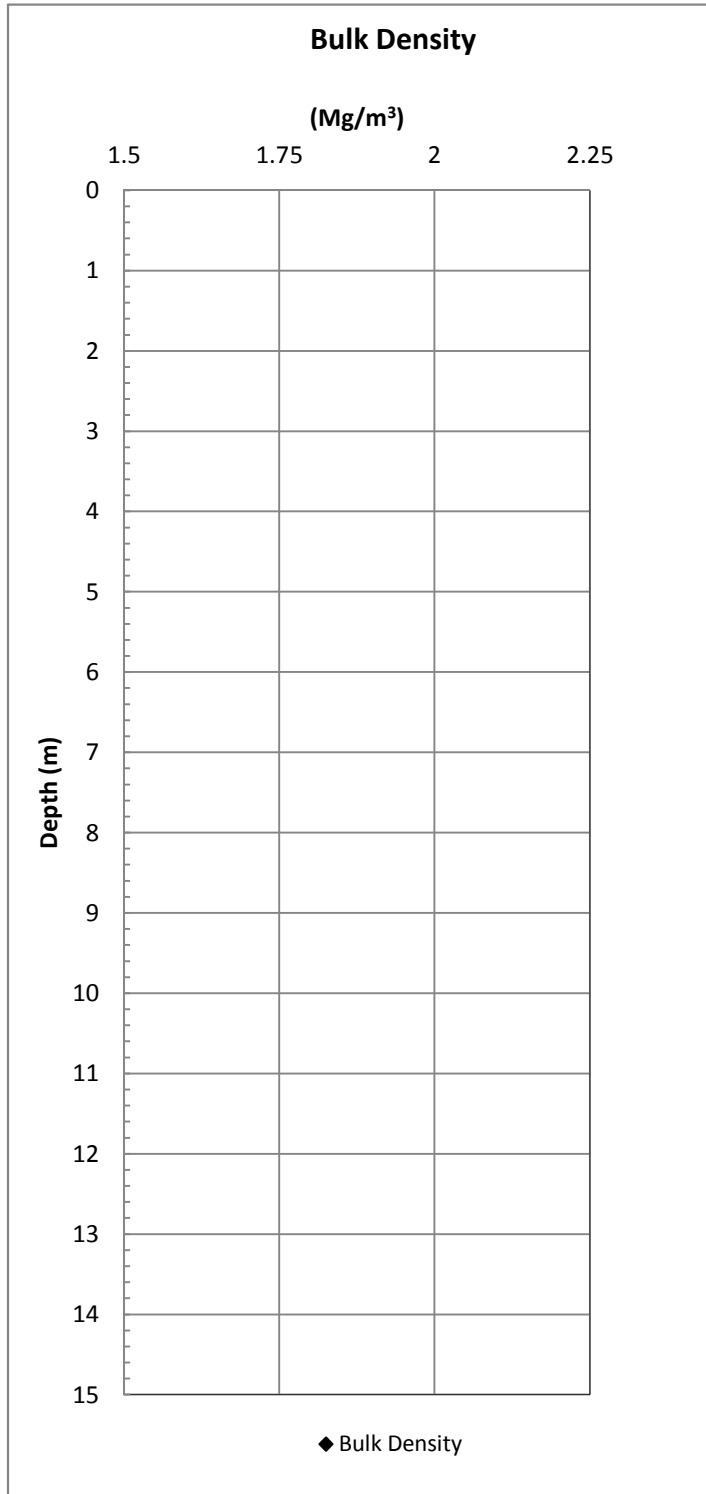


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Kogyuk BH-2

Figure C.3

10033 Beaufort Data

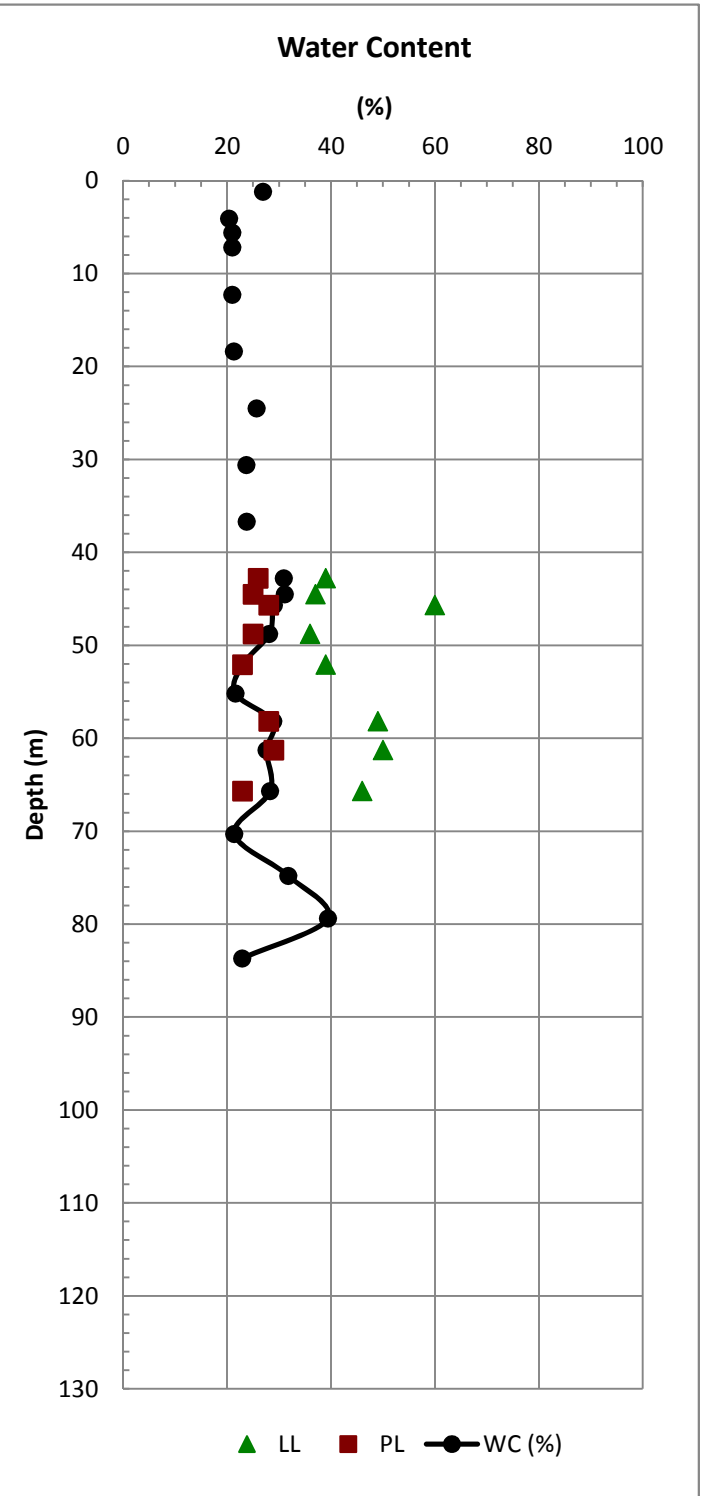
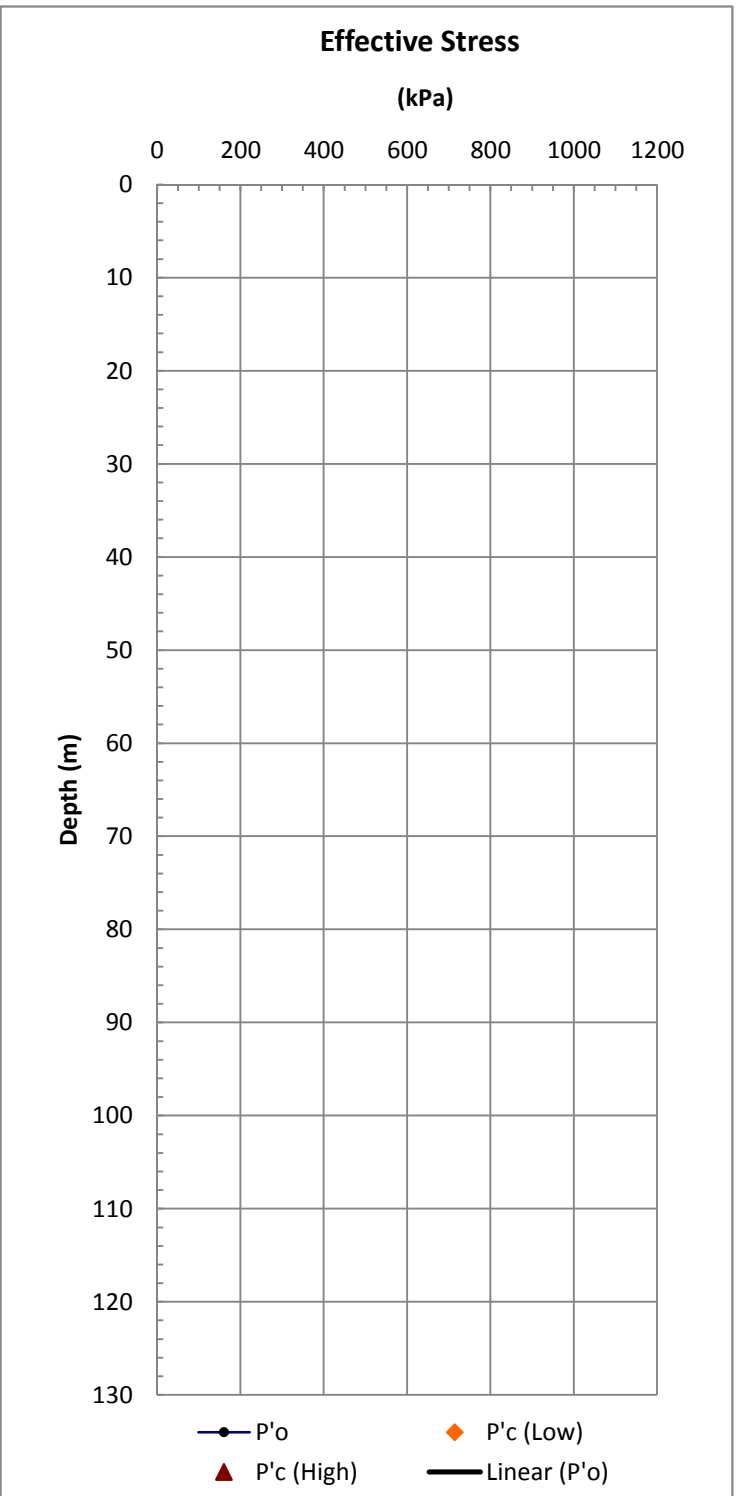
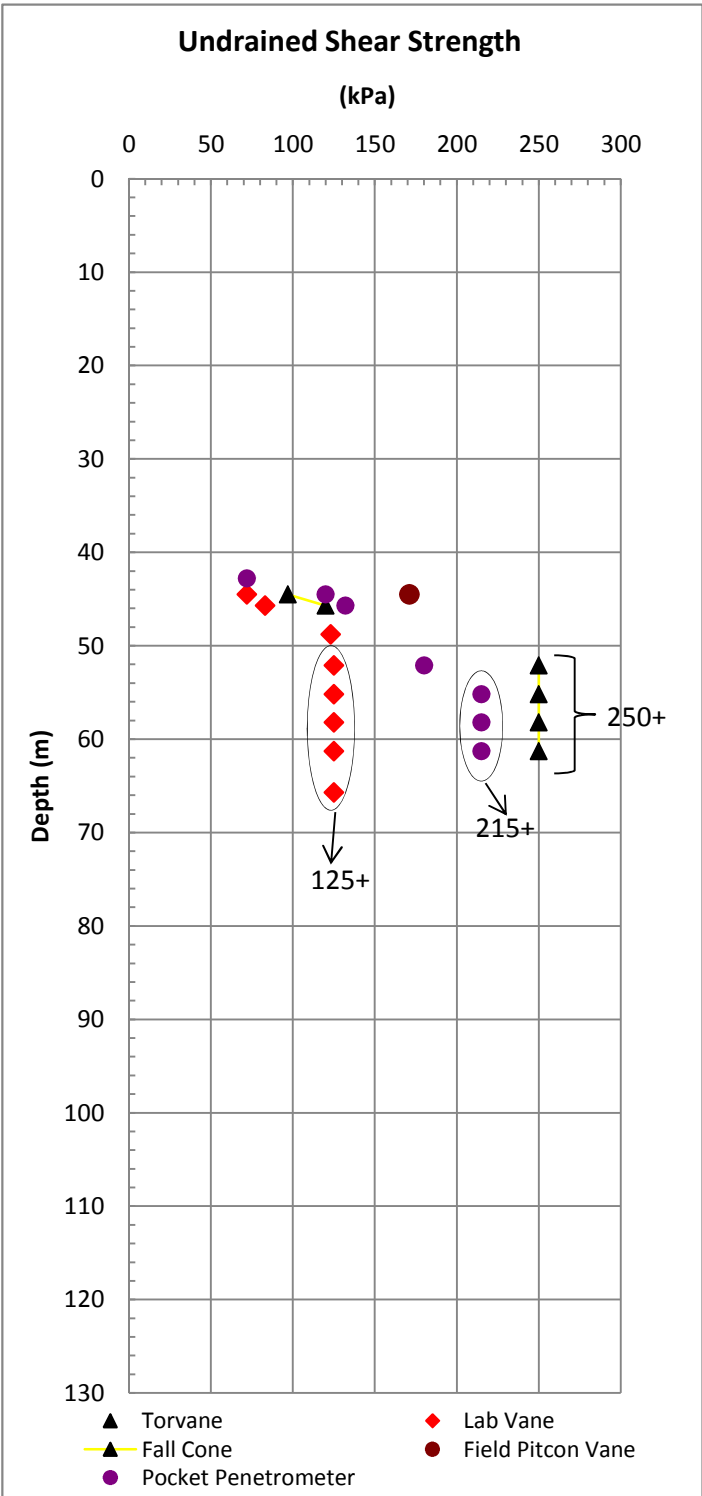
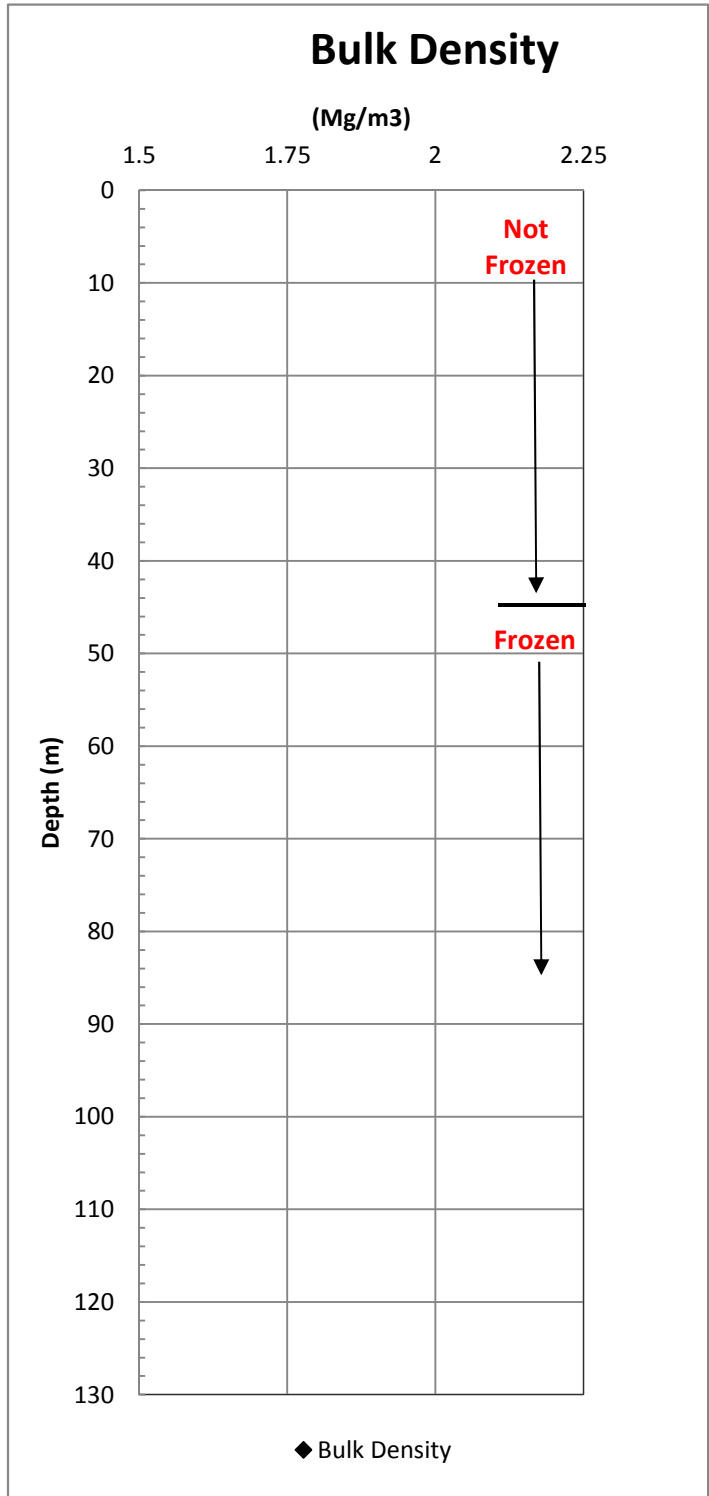


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Figure C.3

10033 Beaufort Data

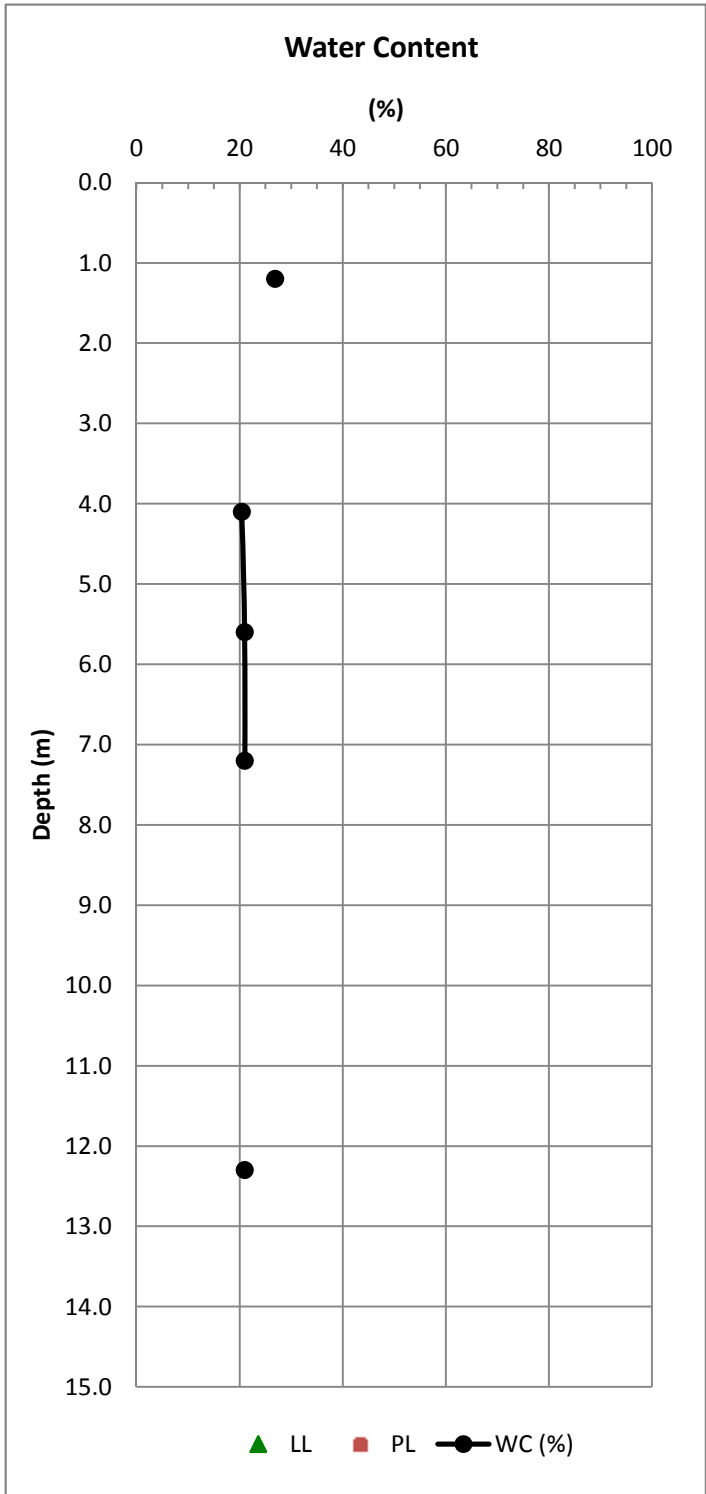
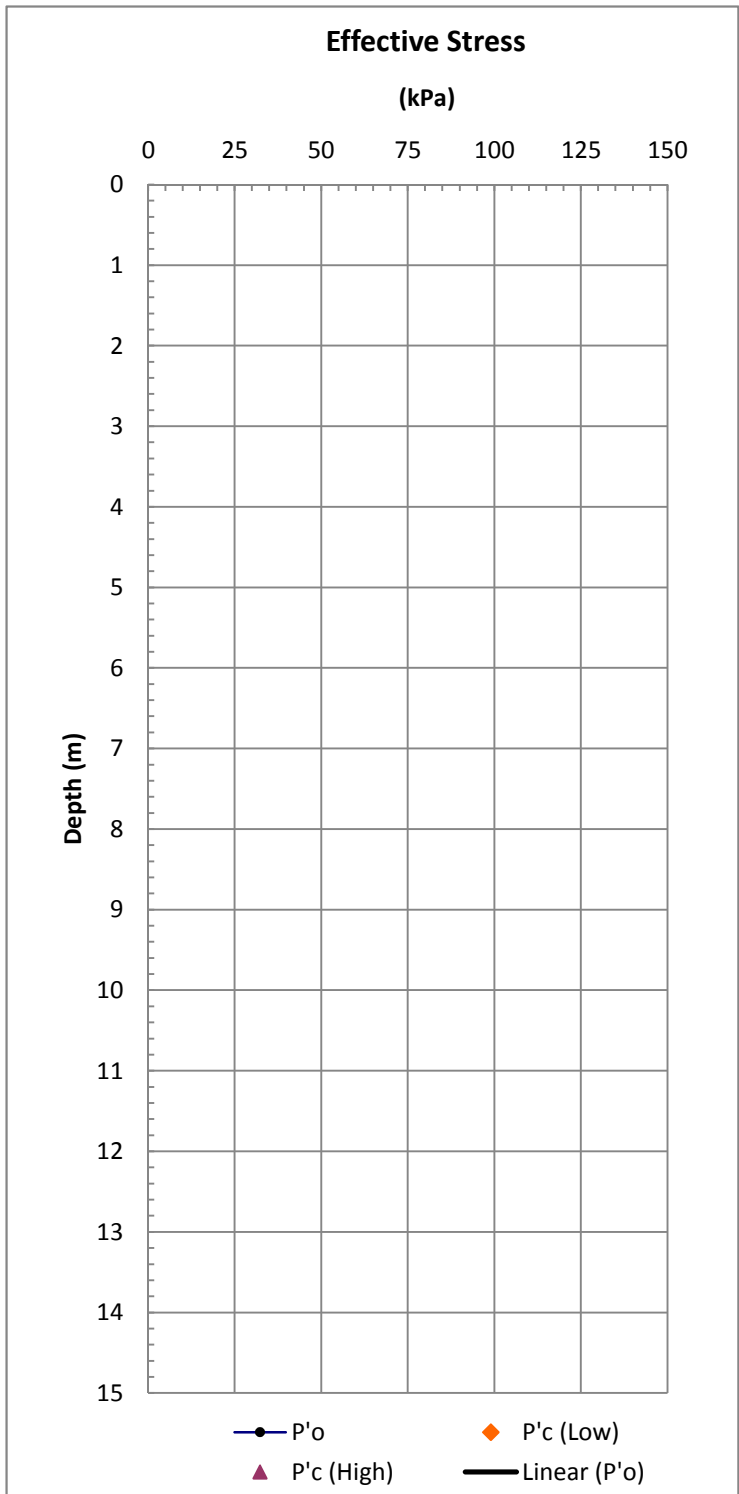
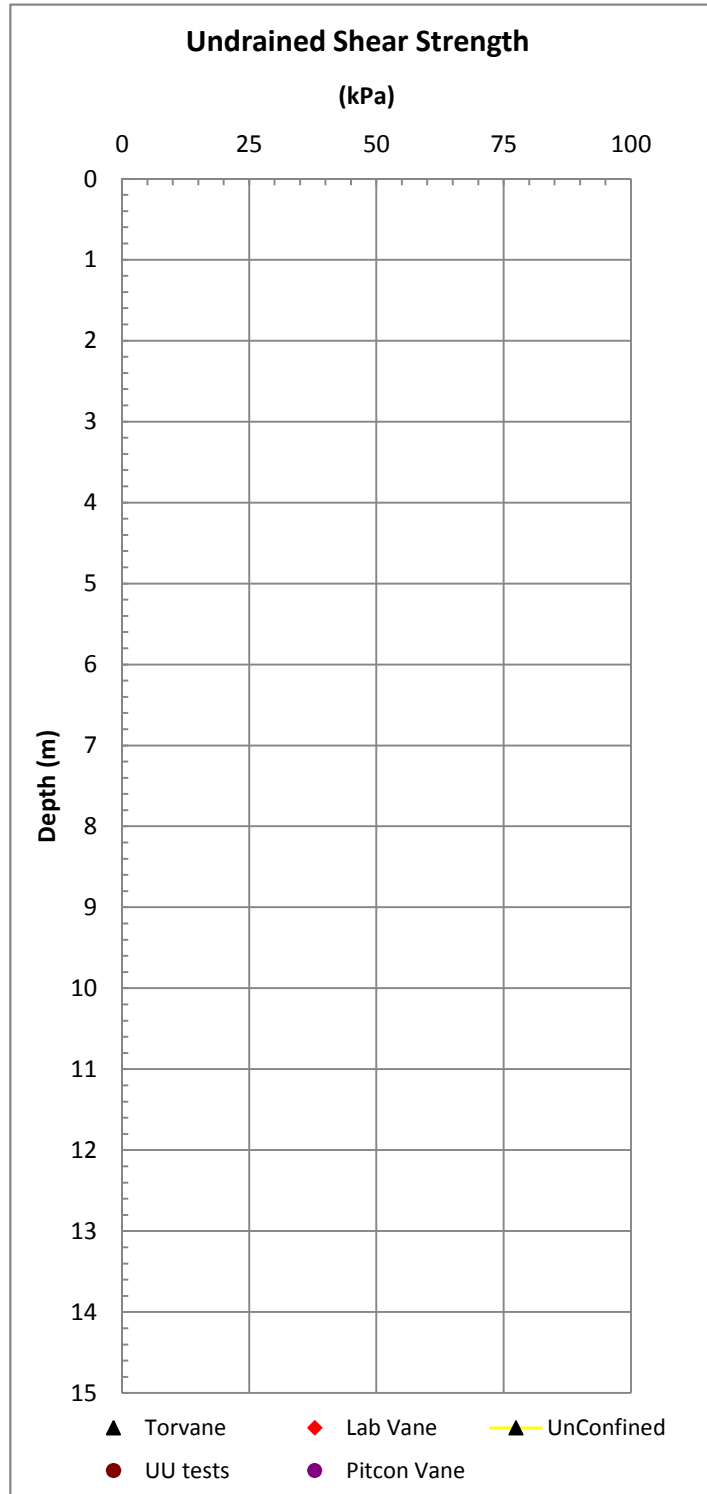
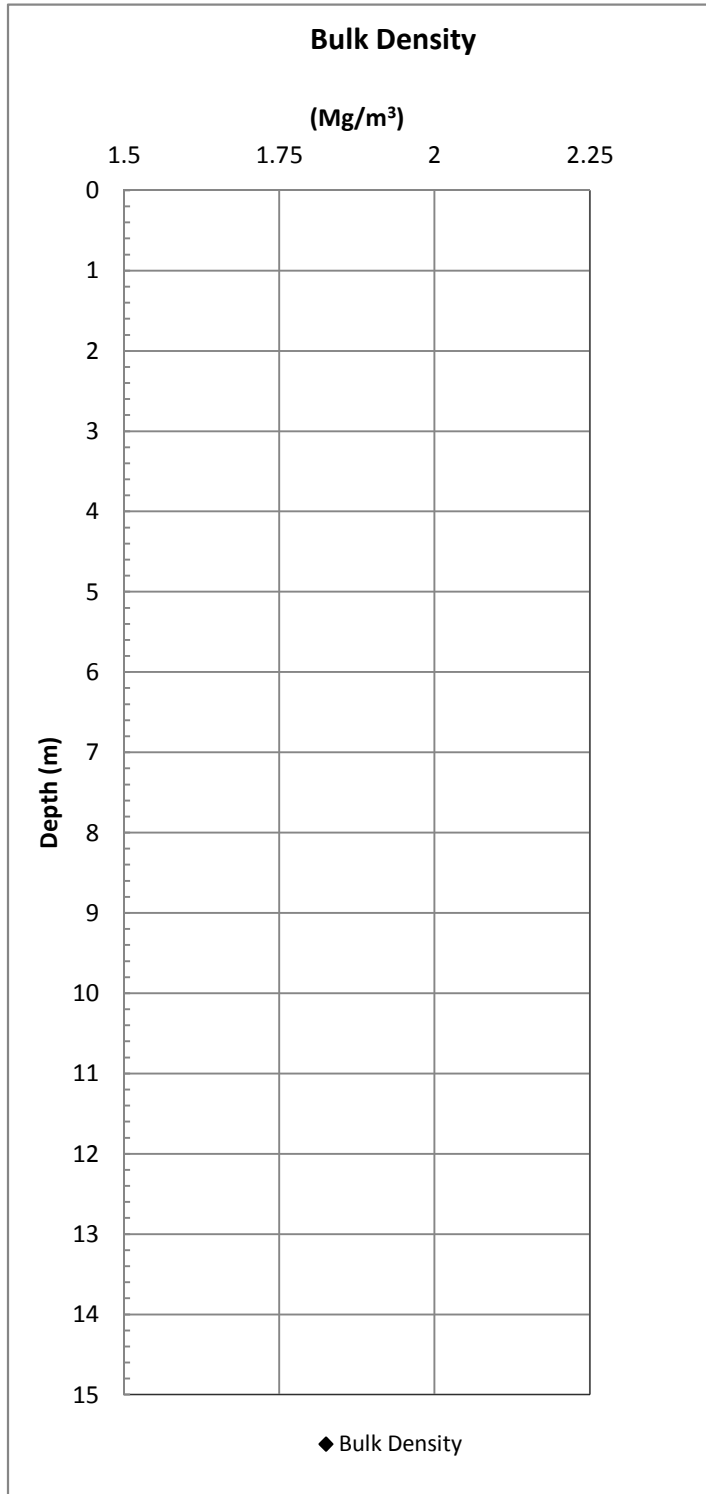


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Kogyuk BH-3

Figure C.3

10033 Beaufort Data

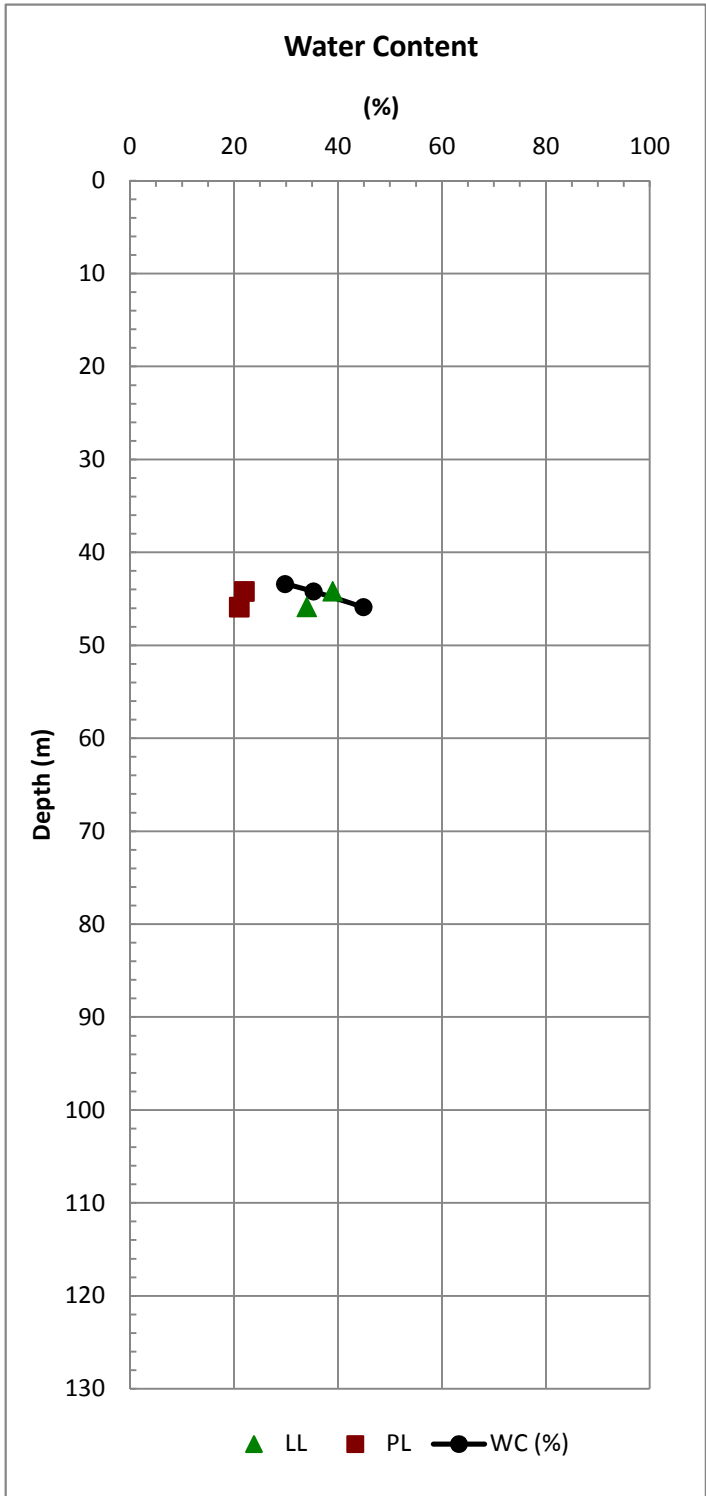
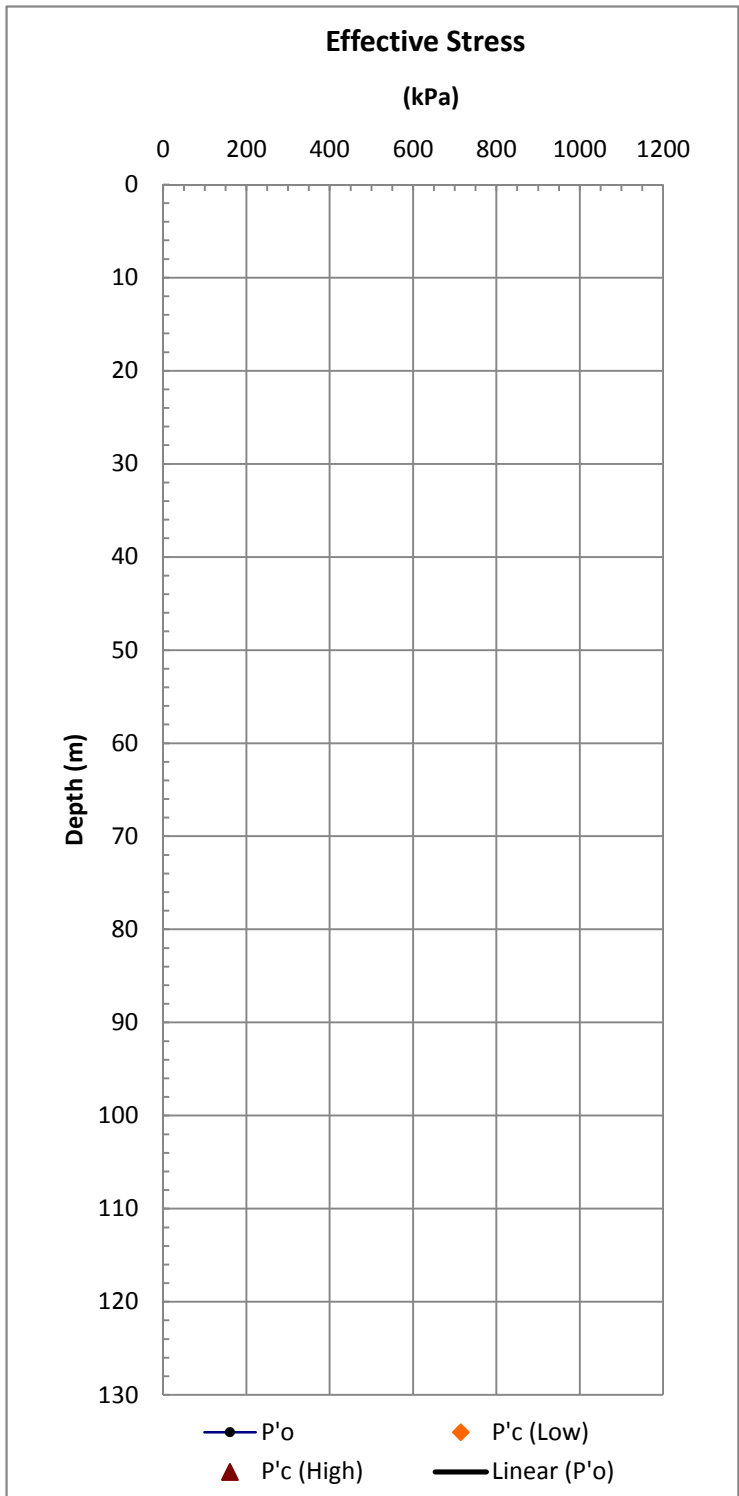
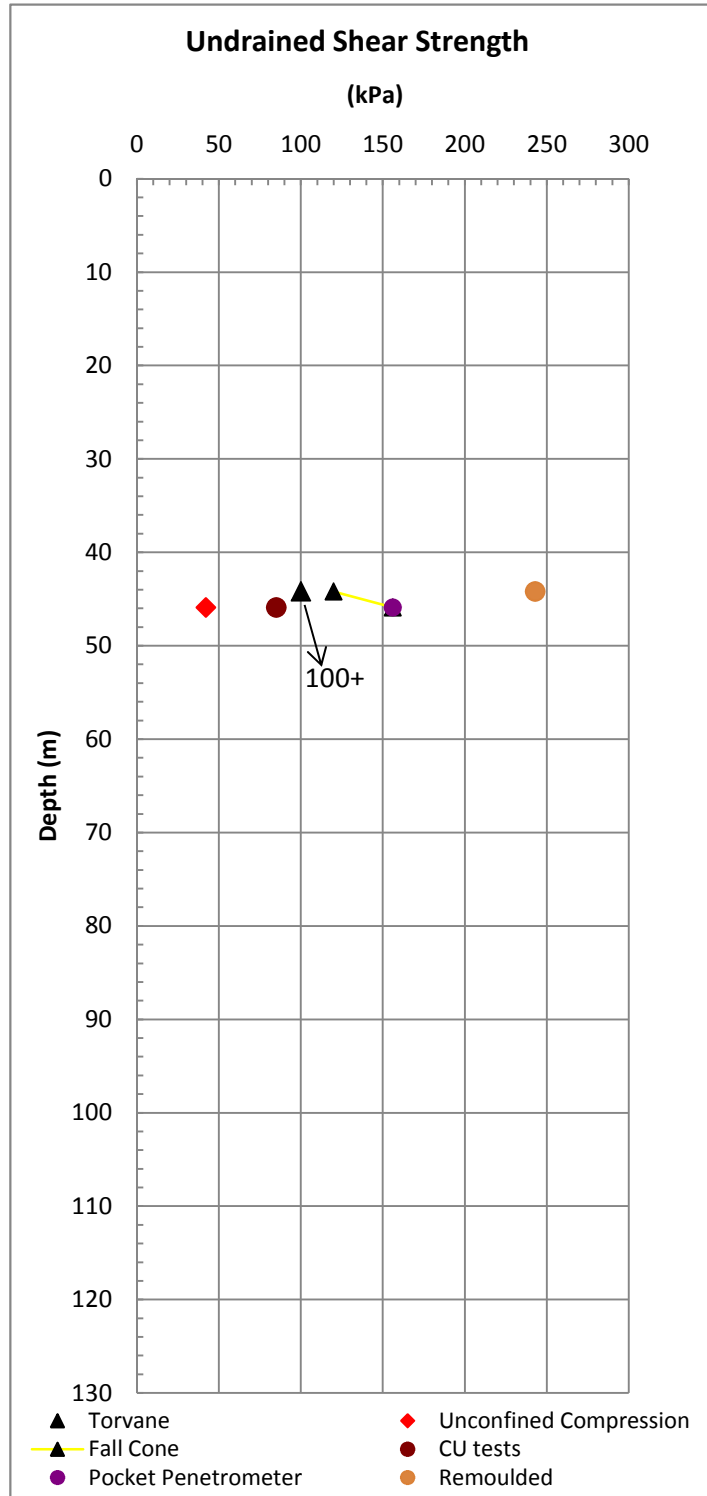
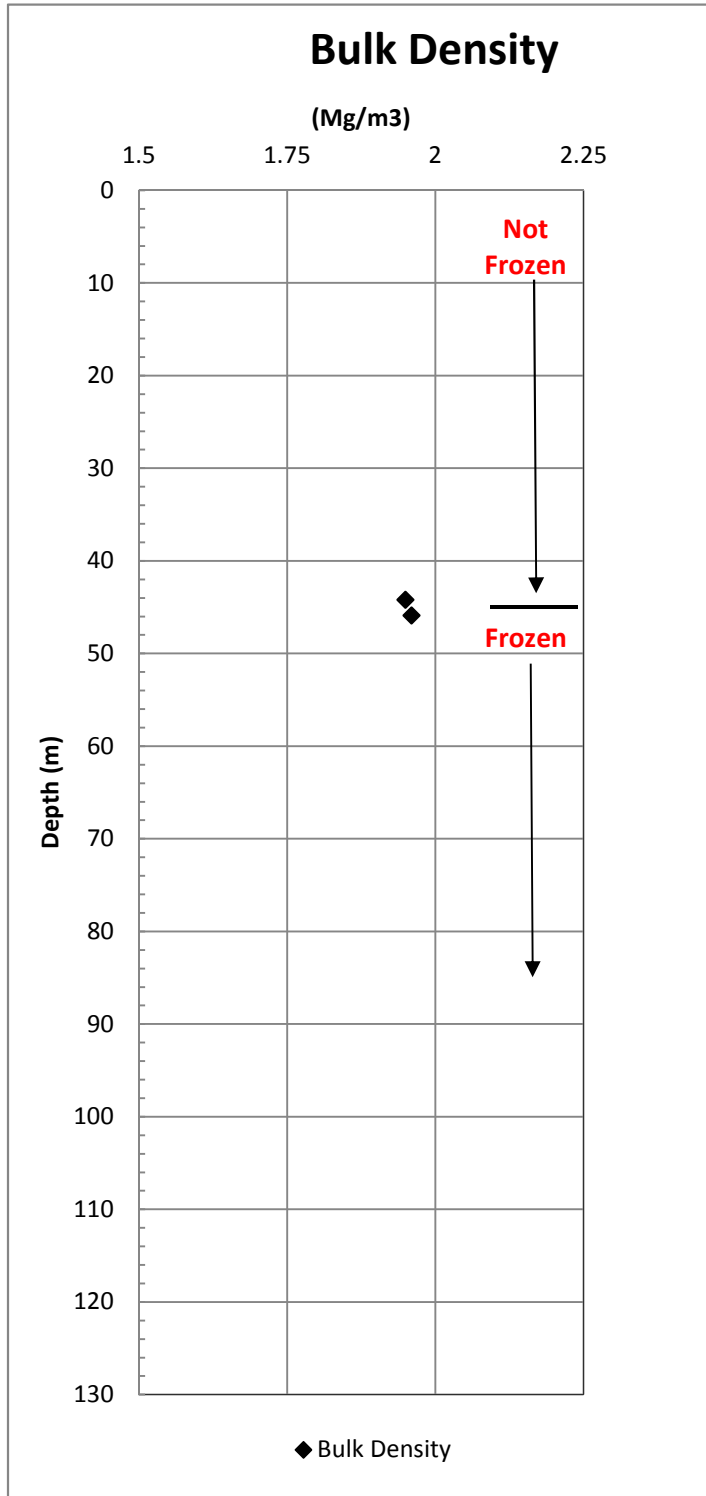


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Kogyuk BH-3

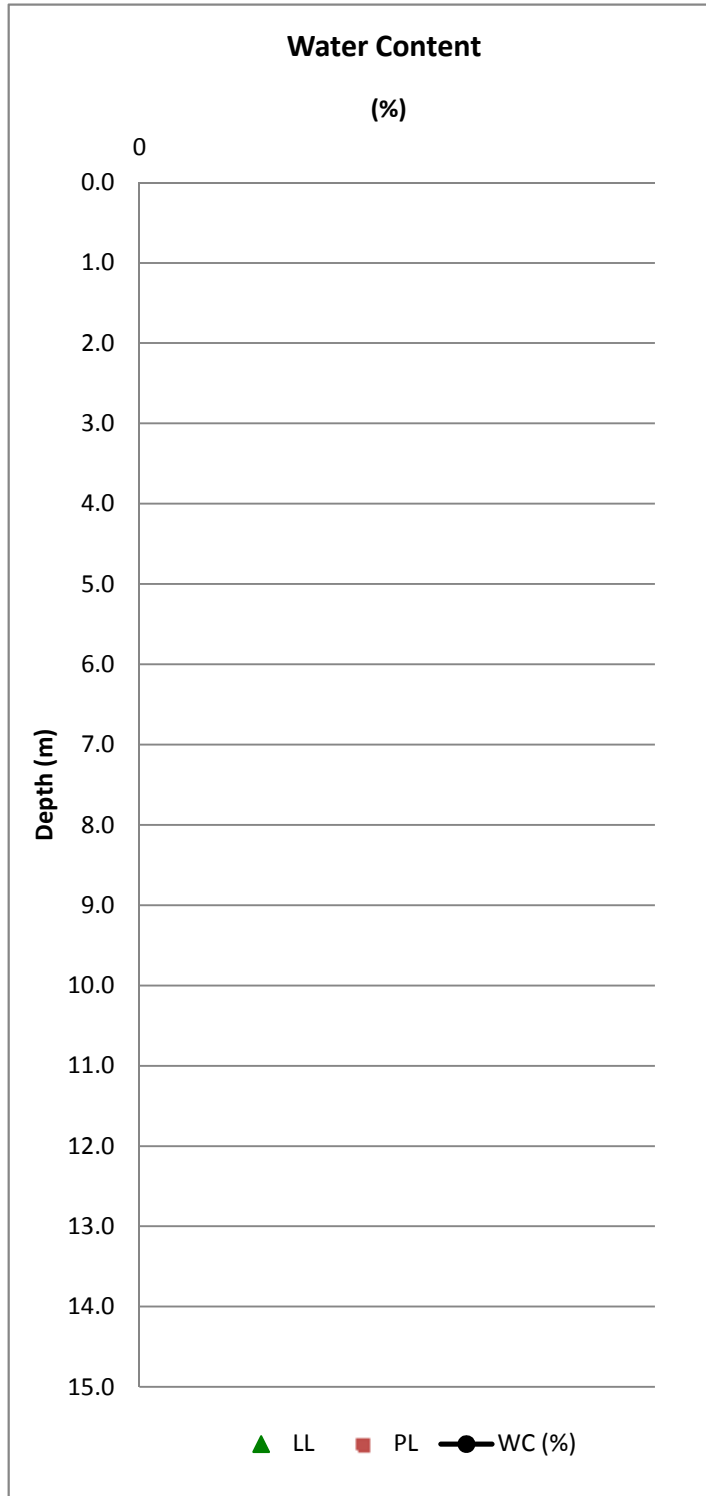
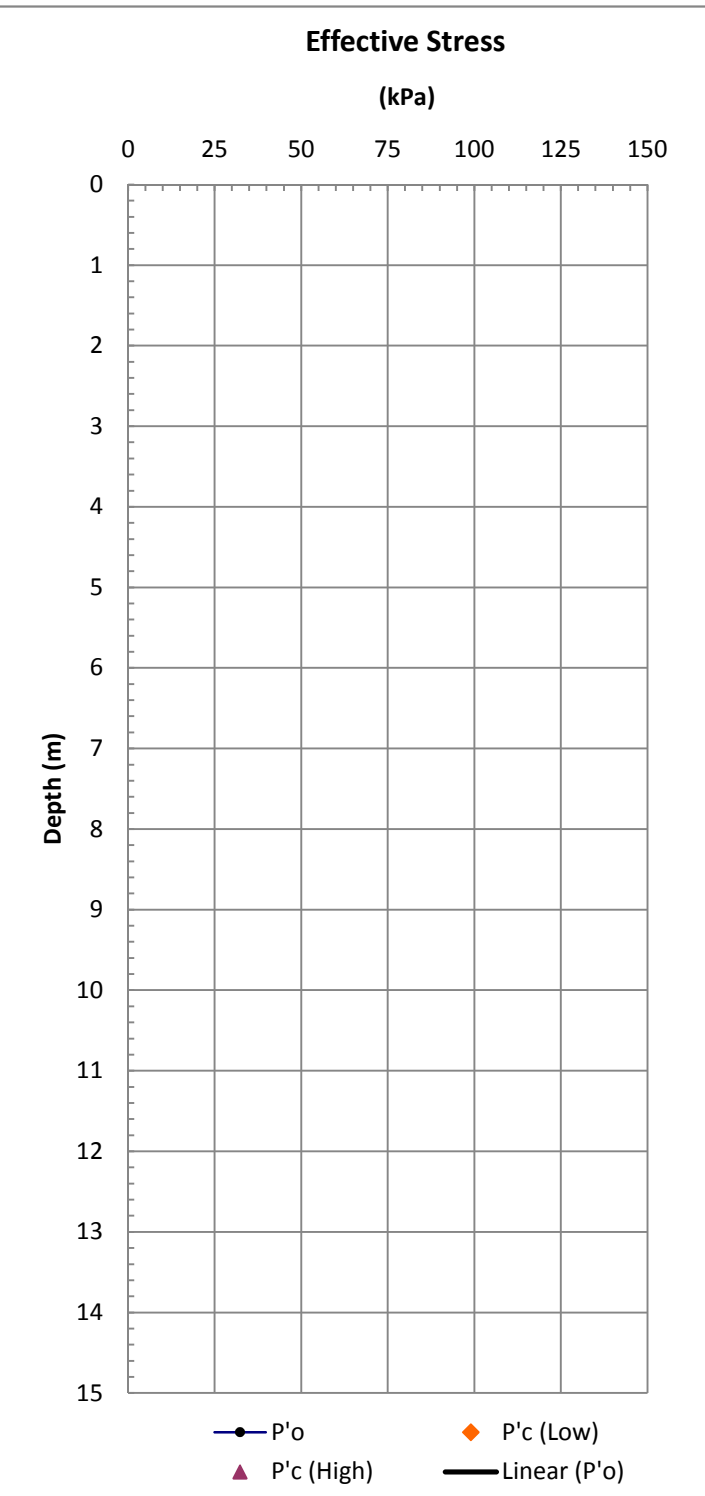
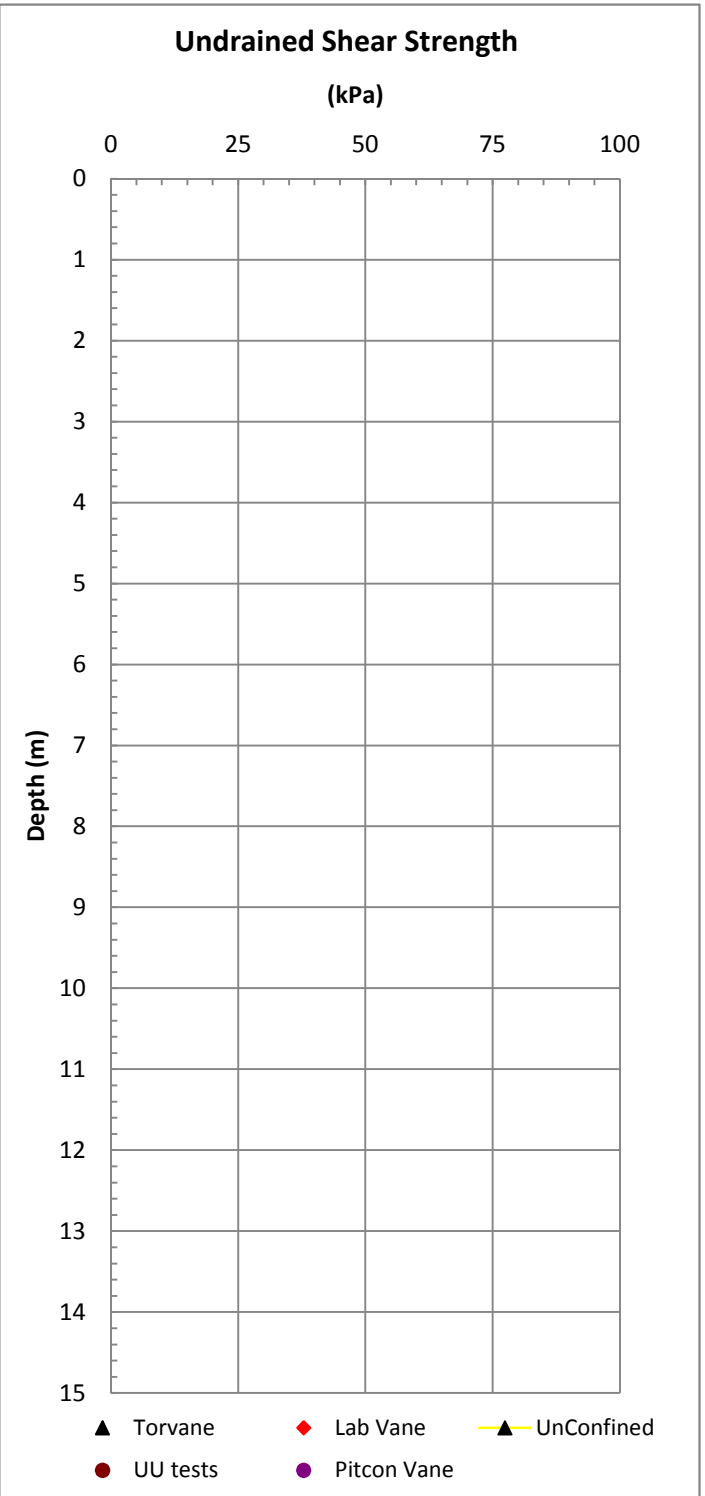
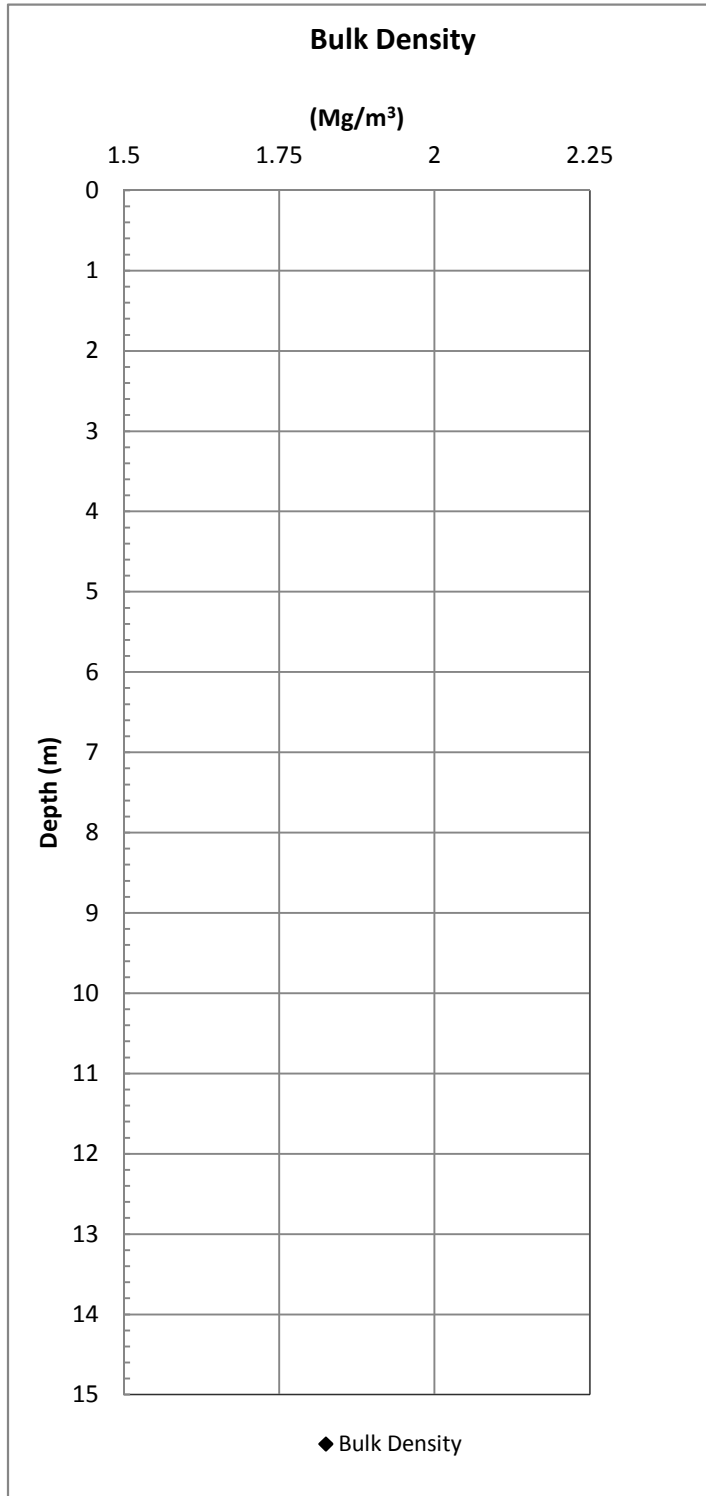
Figure C.3

10033 Beaufort Data



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Figure C.3
10033 Beaufort Data

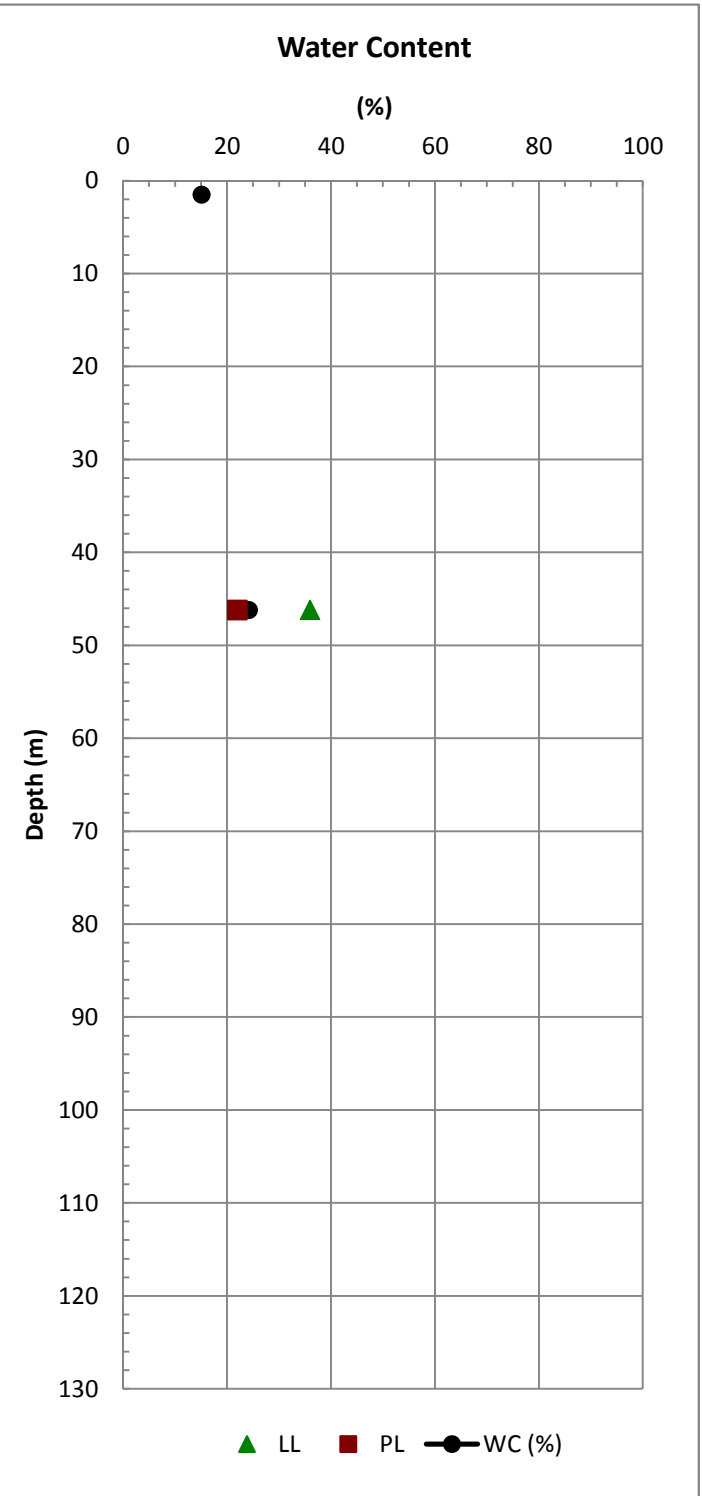
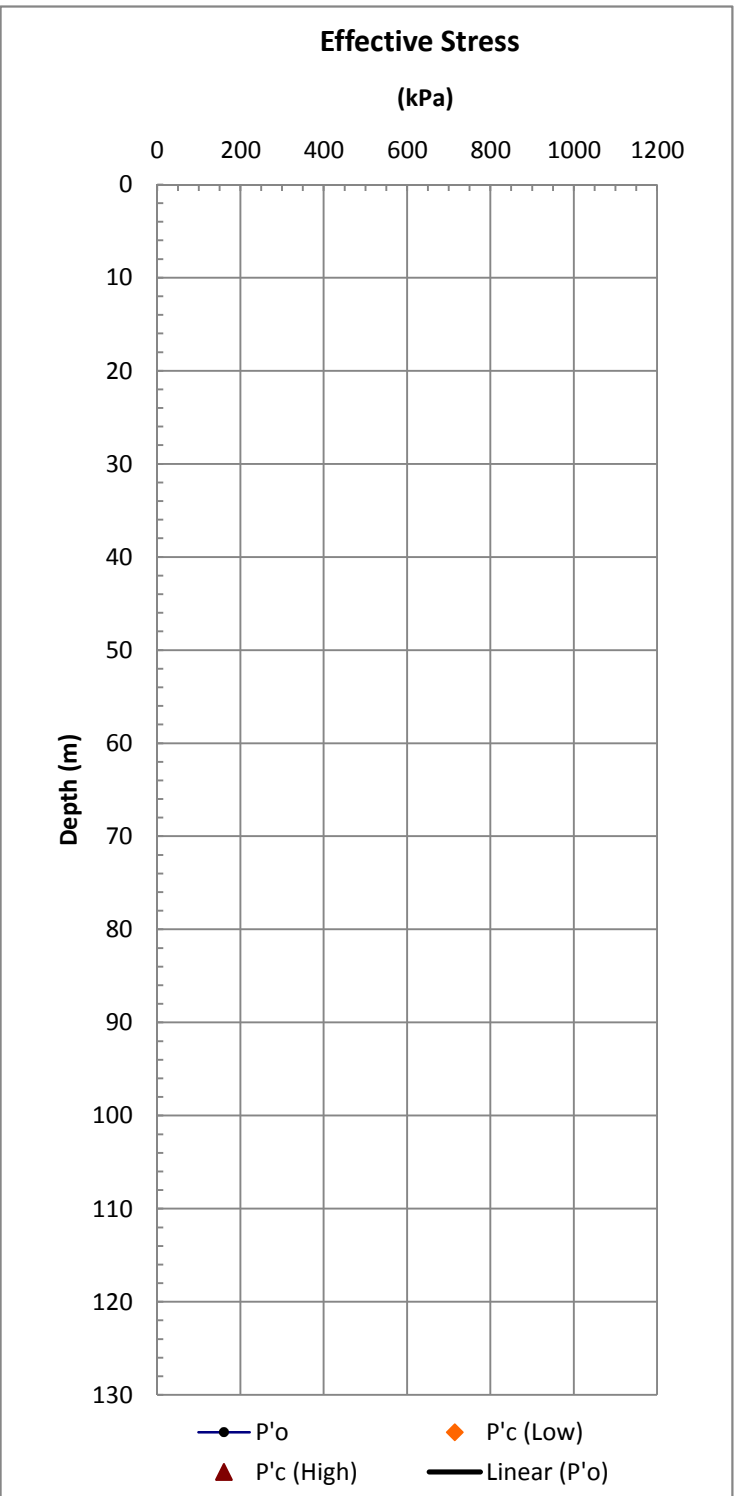
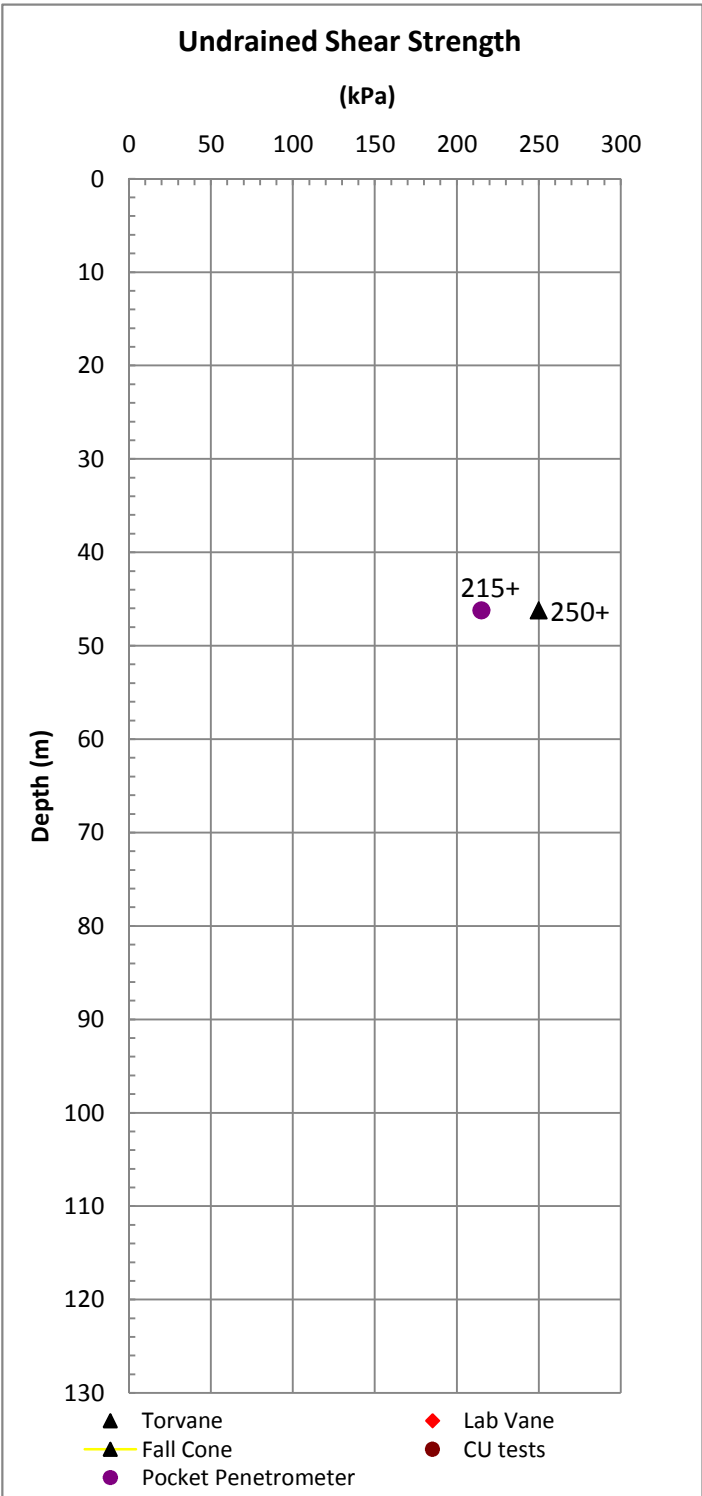
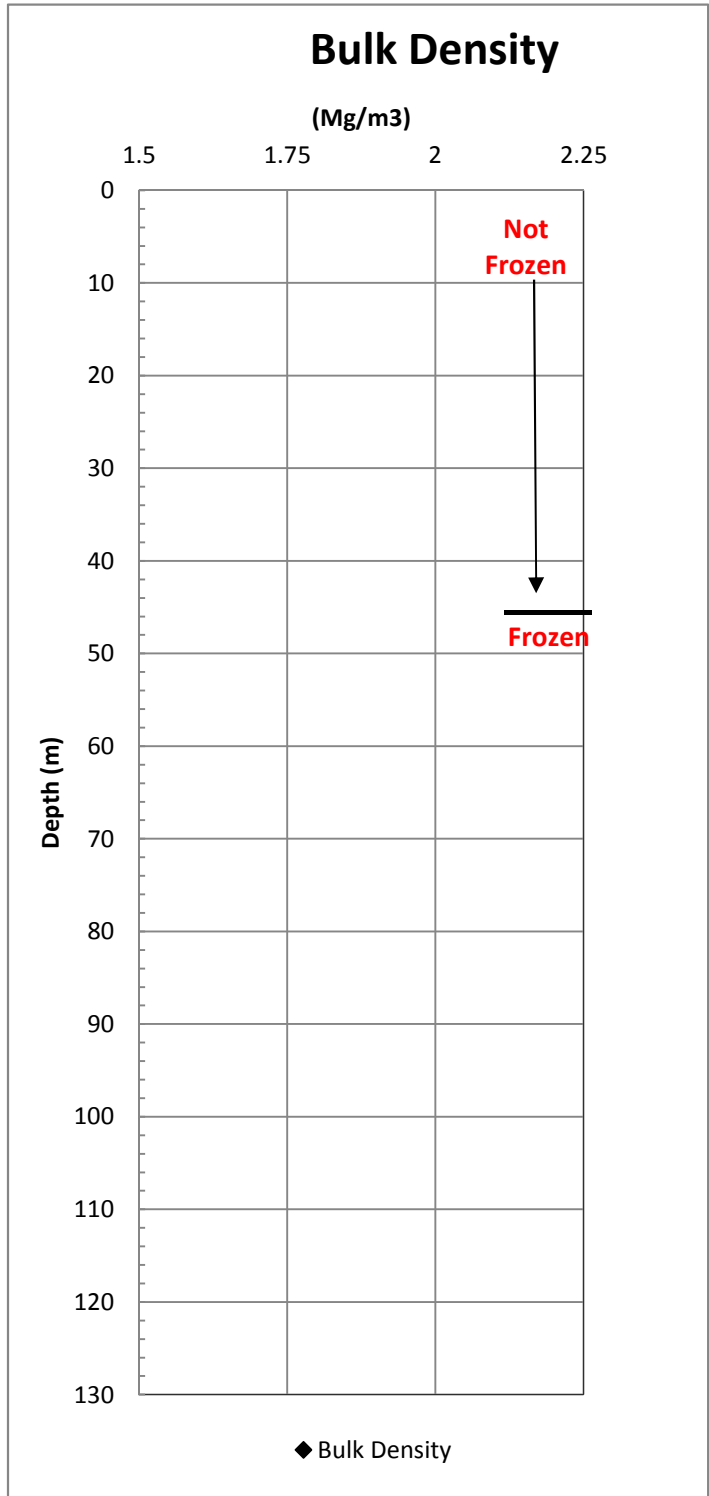


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Kogyuk BH-4

Figure C.3

10033 Beaufort Data

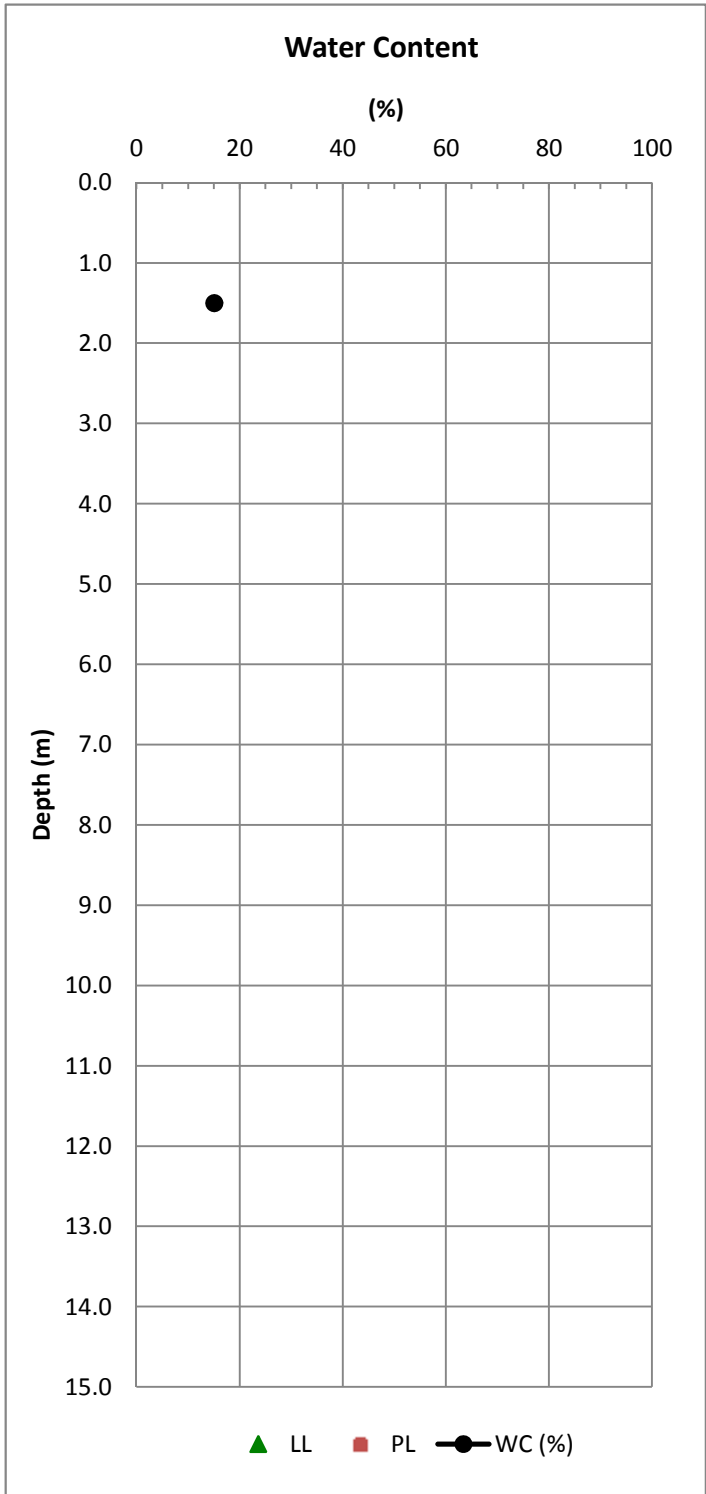
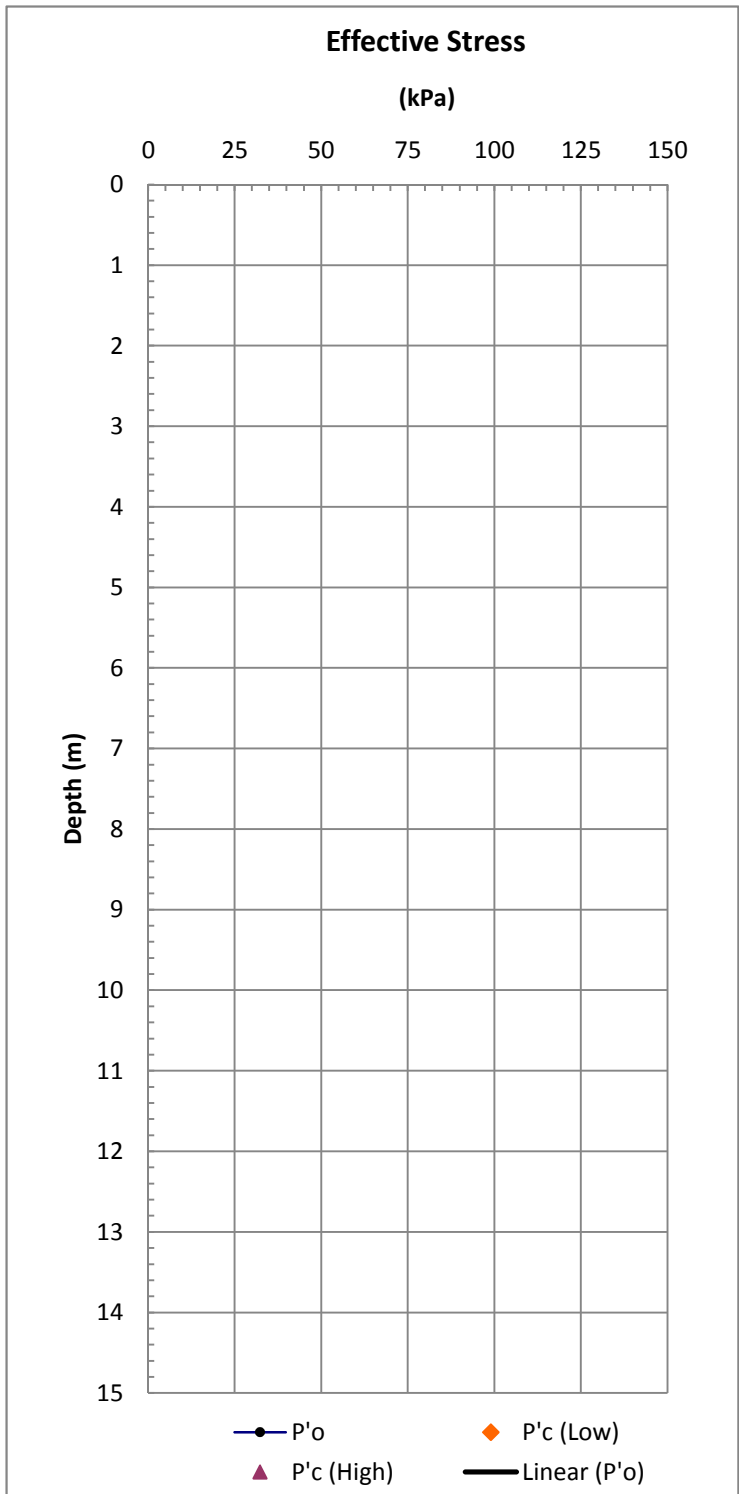
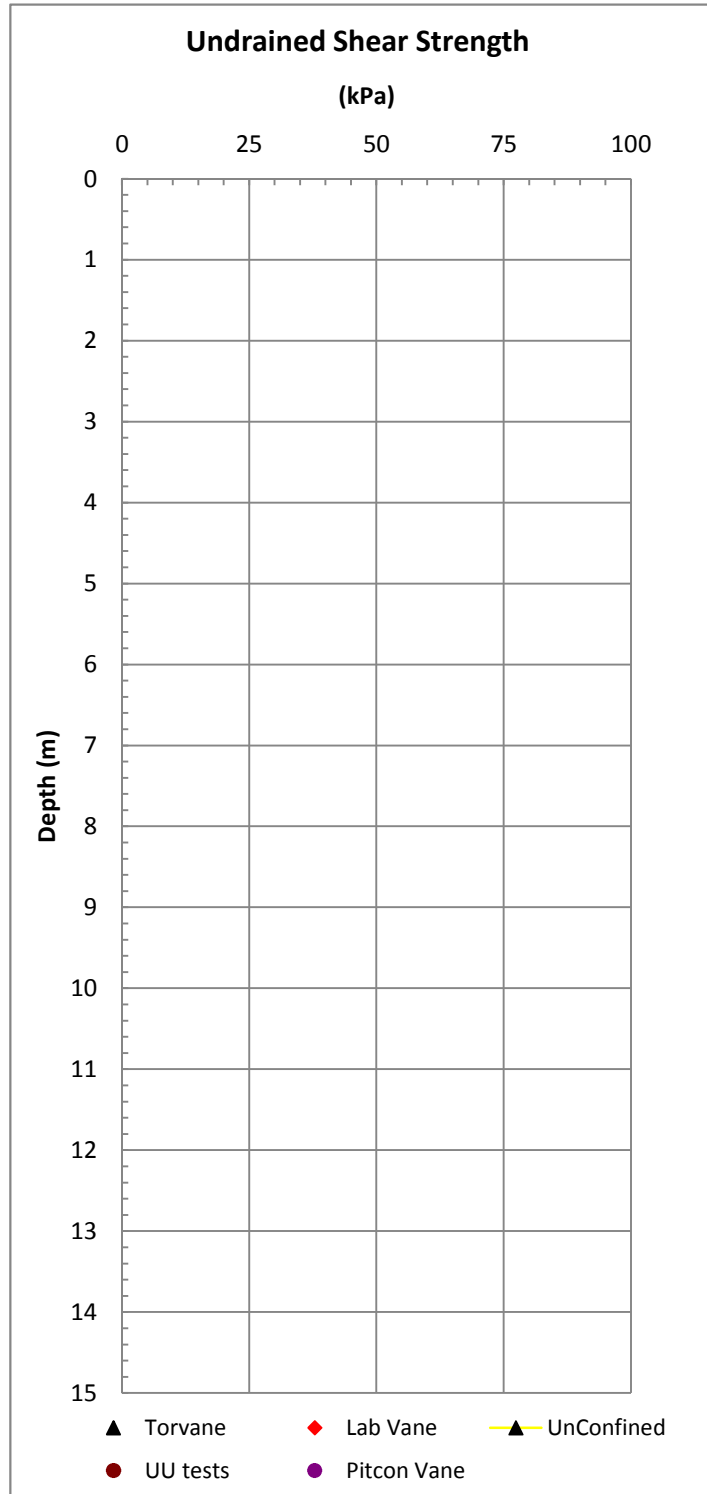
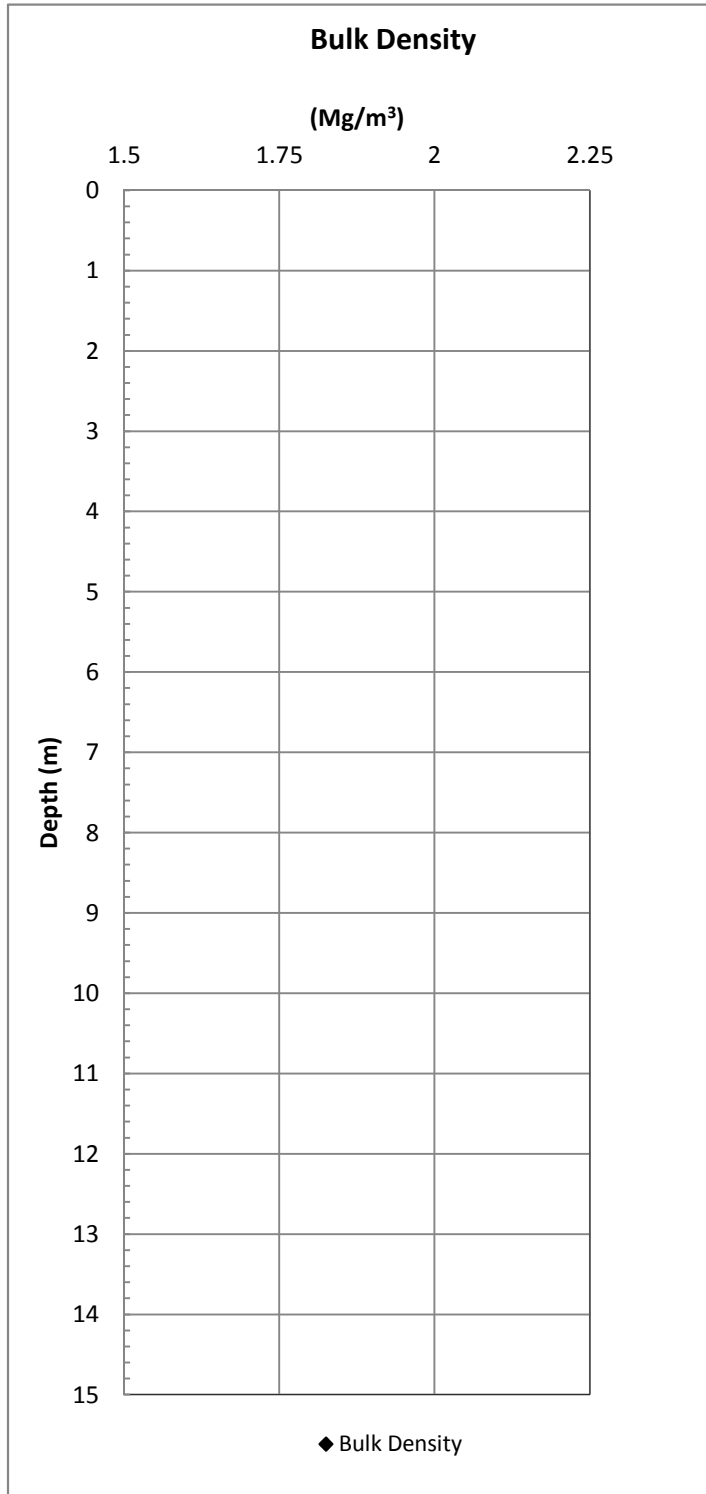


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Figure C.3

10033 Beaufort Data

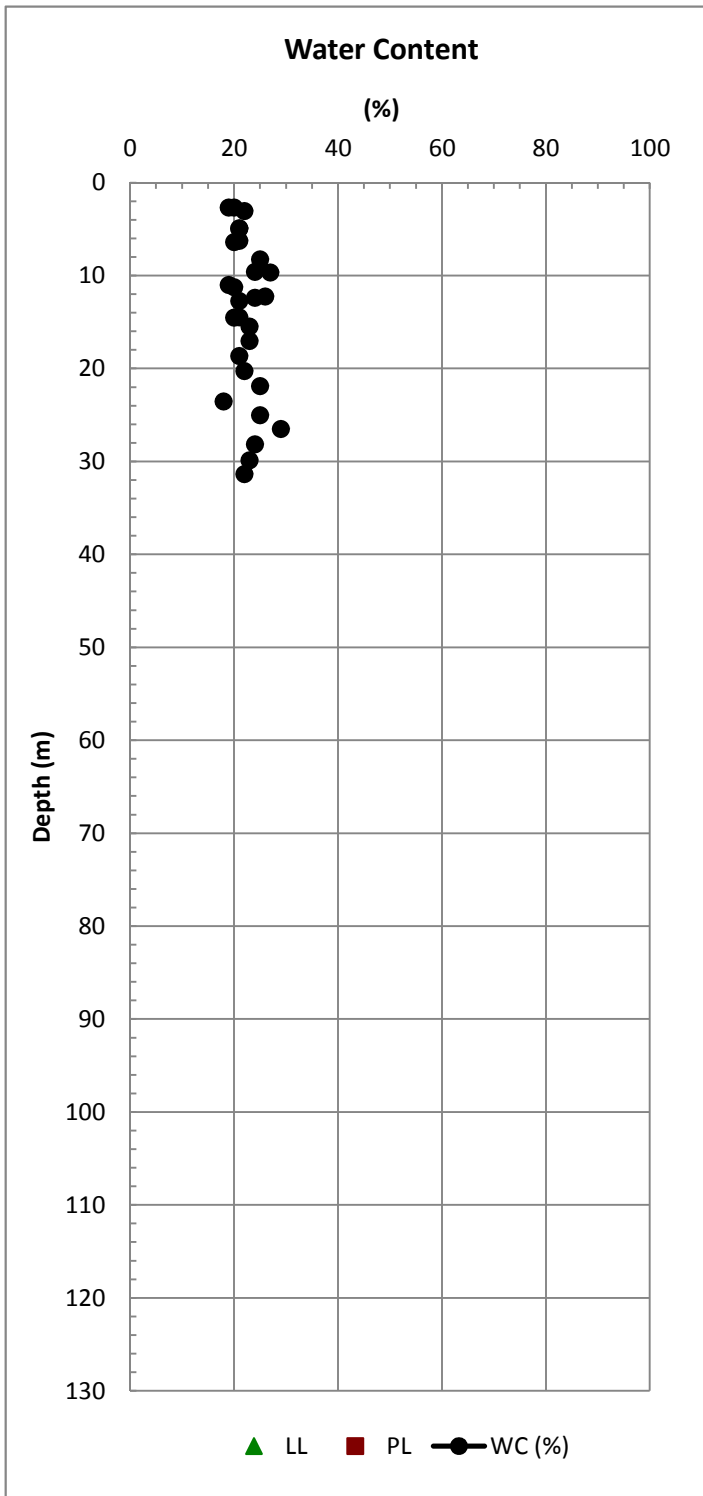
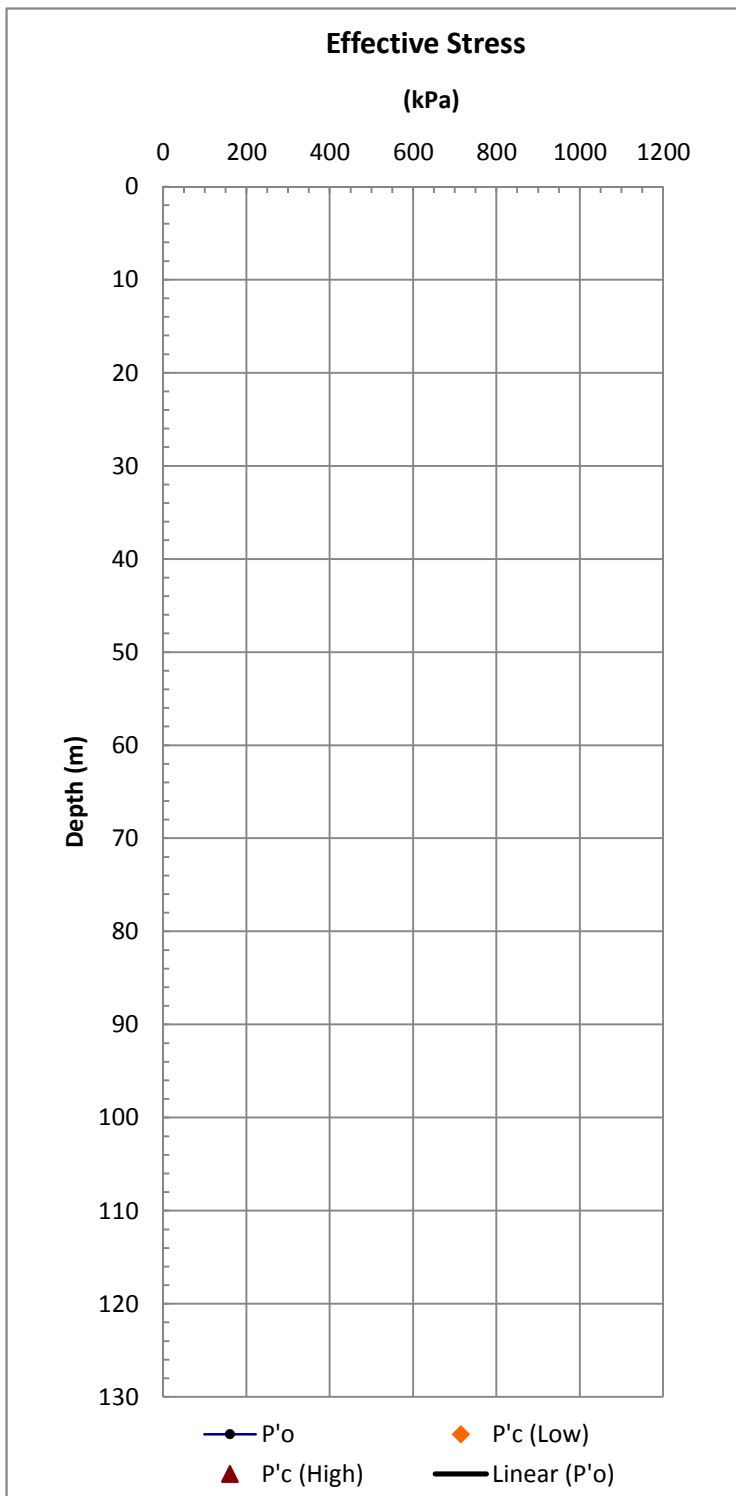
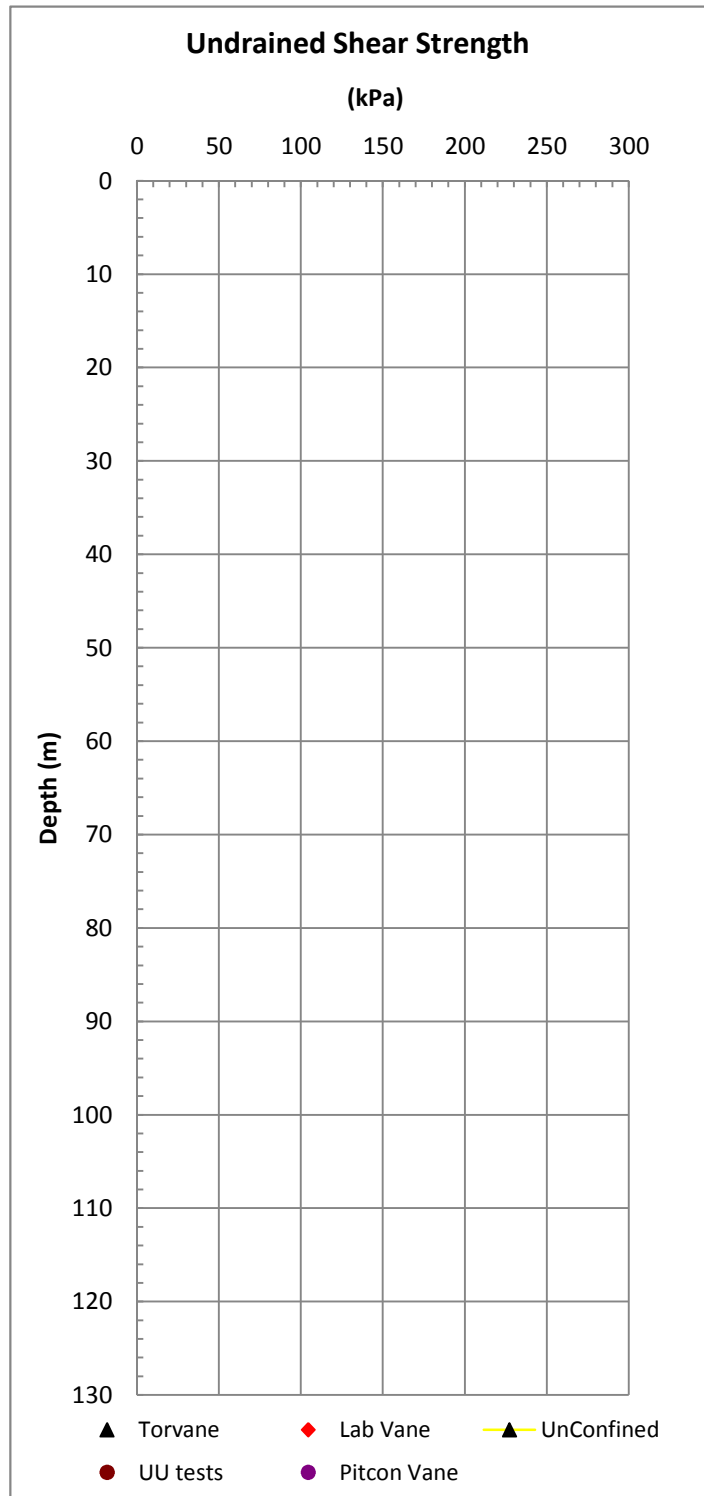
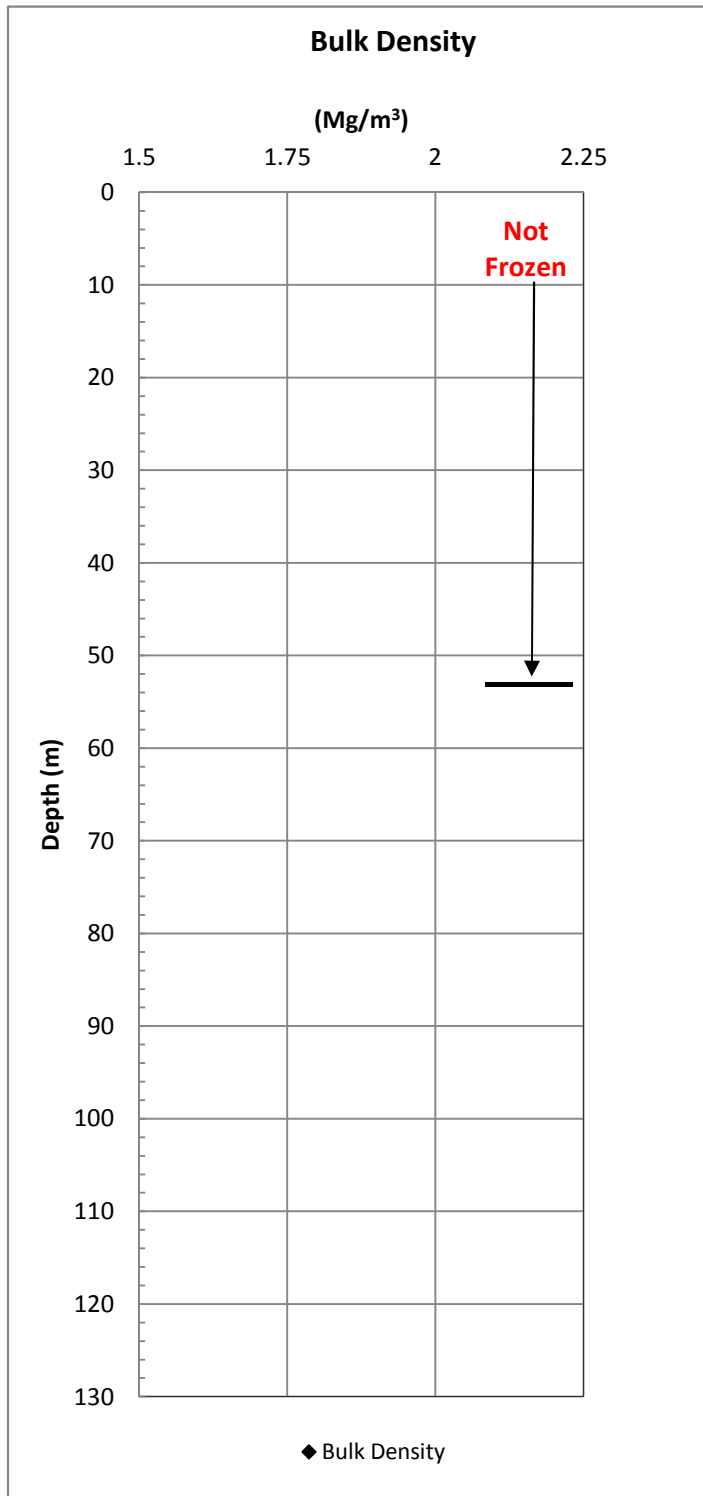


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Kogyuk BH-5

Figure C.3

10033 Beaufort Data

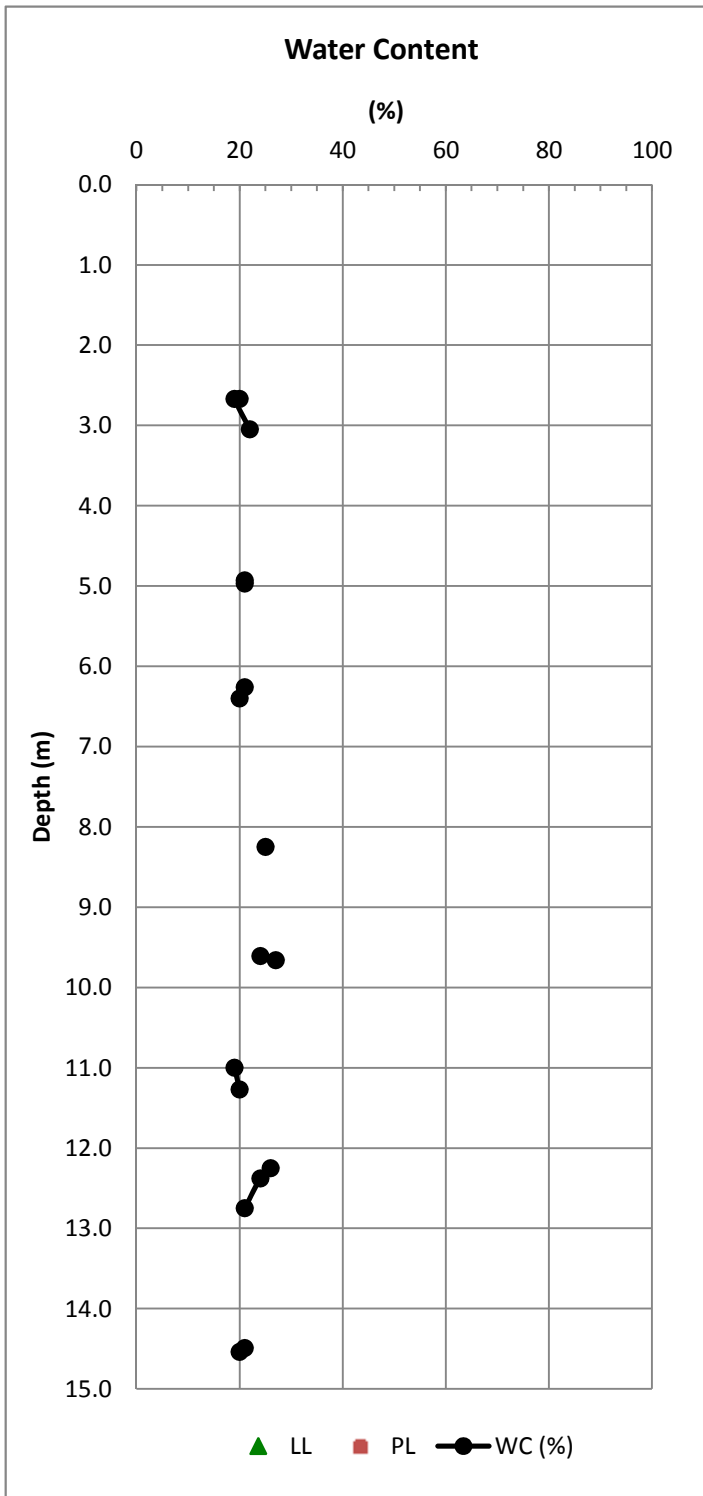
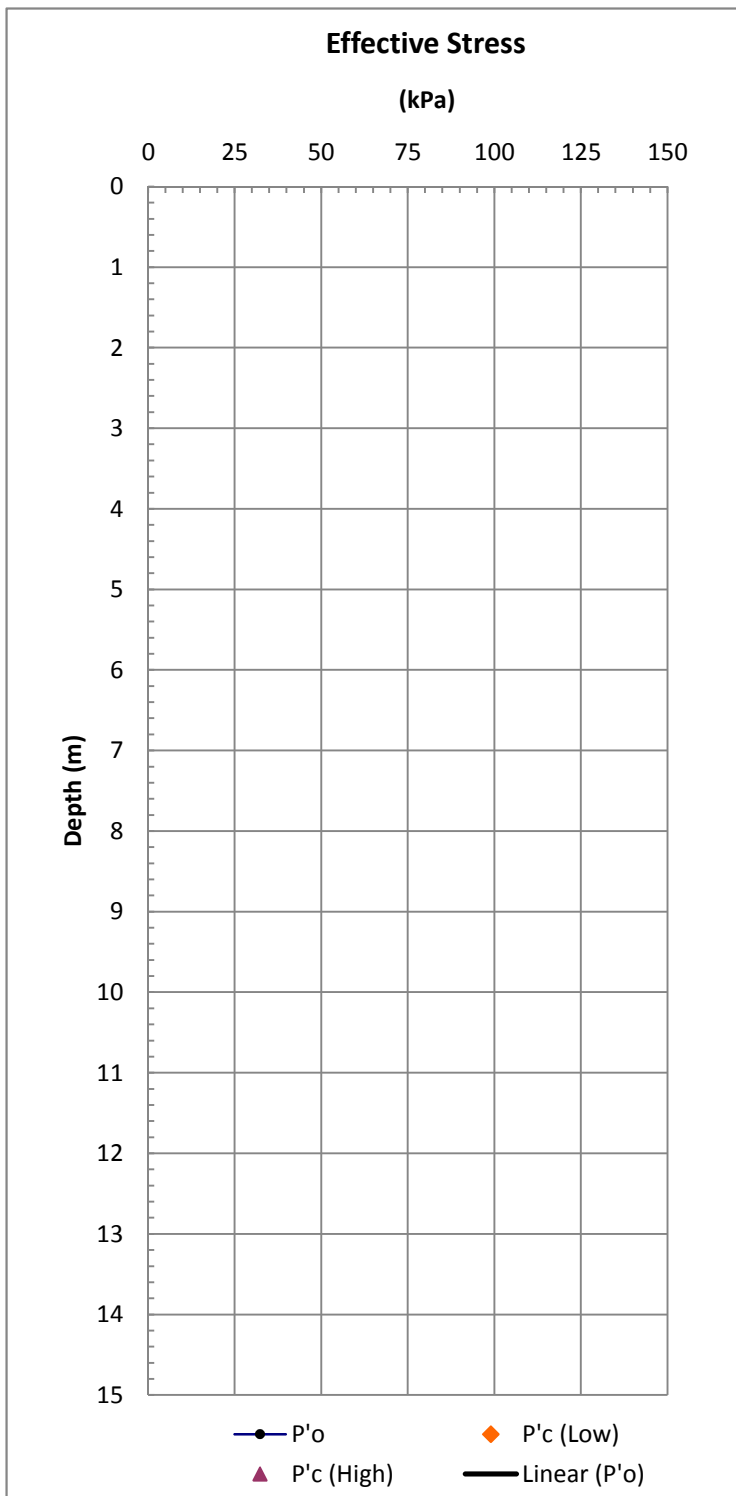
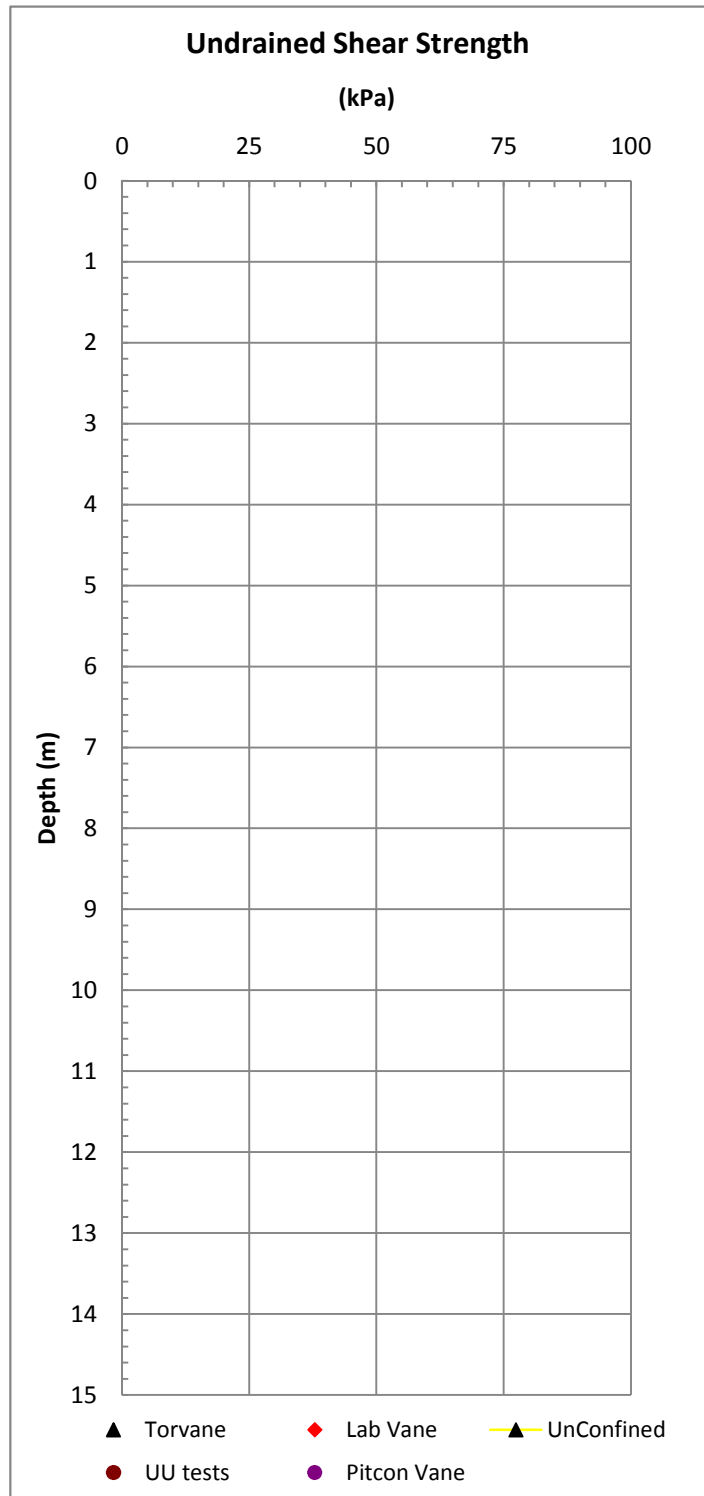
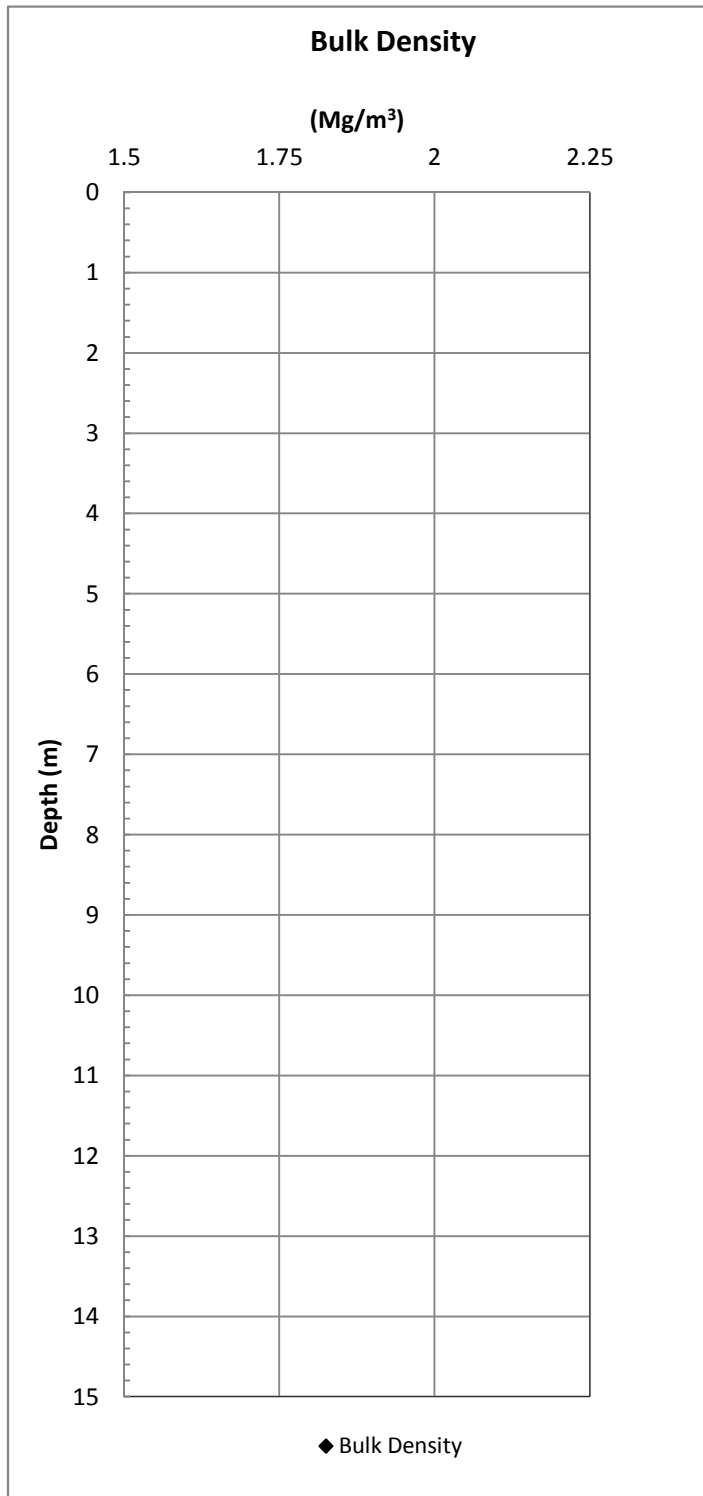


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Figure C.3

10033 Beaufort Data

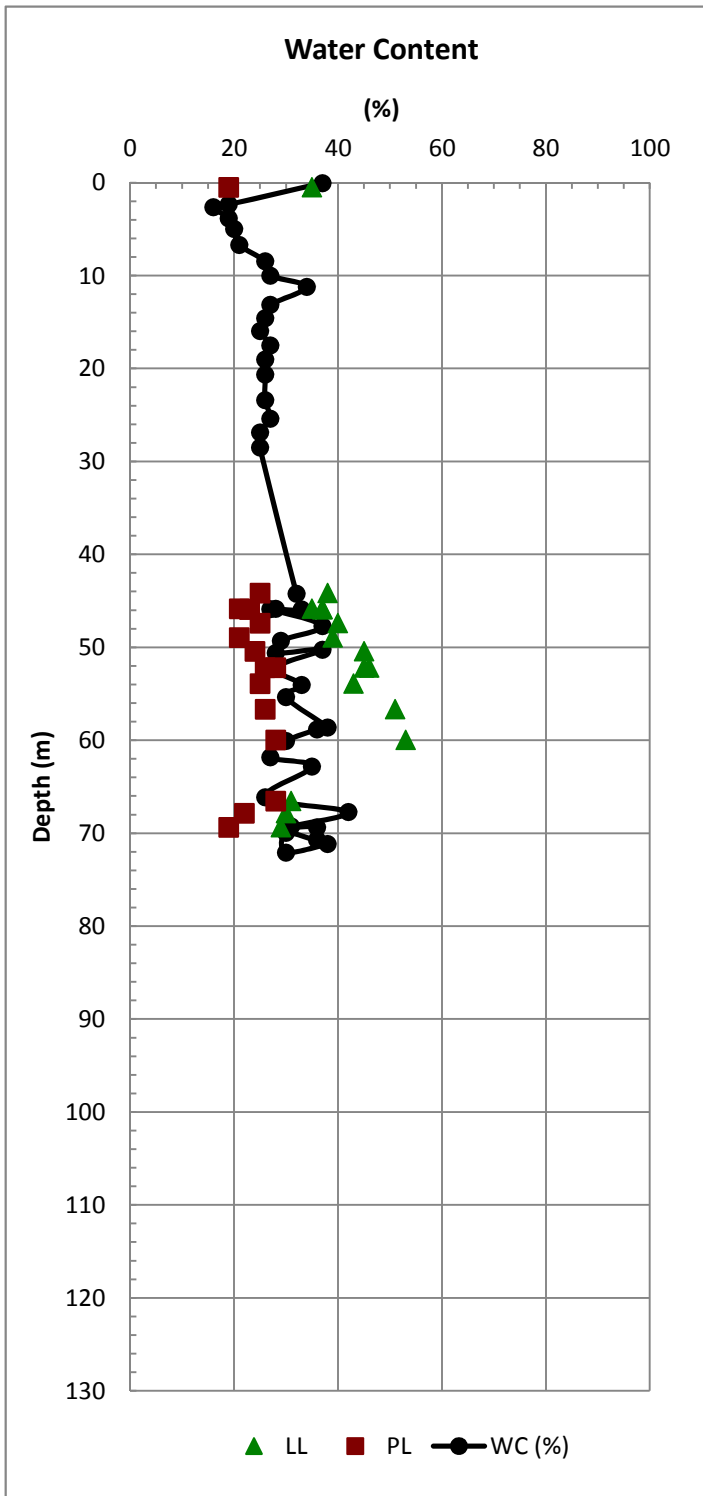
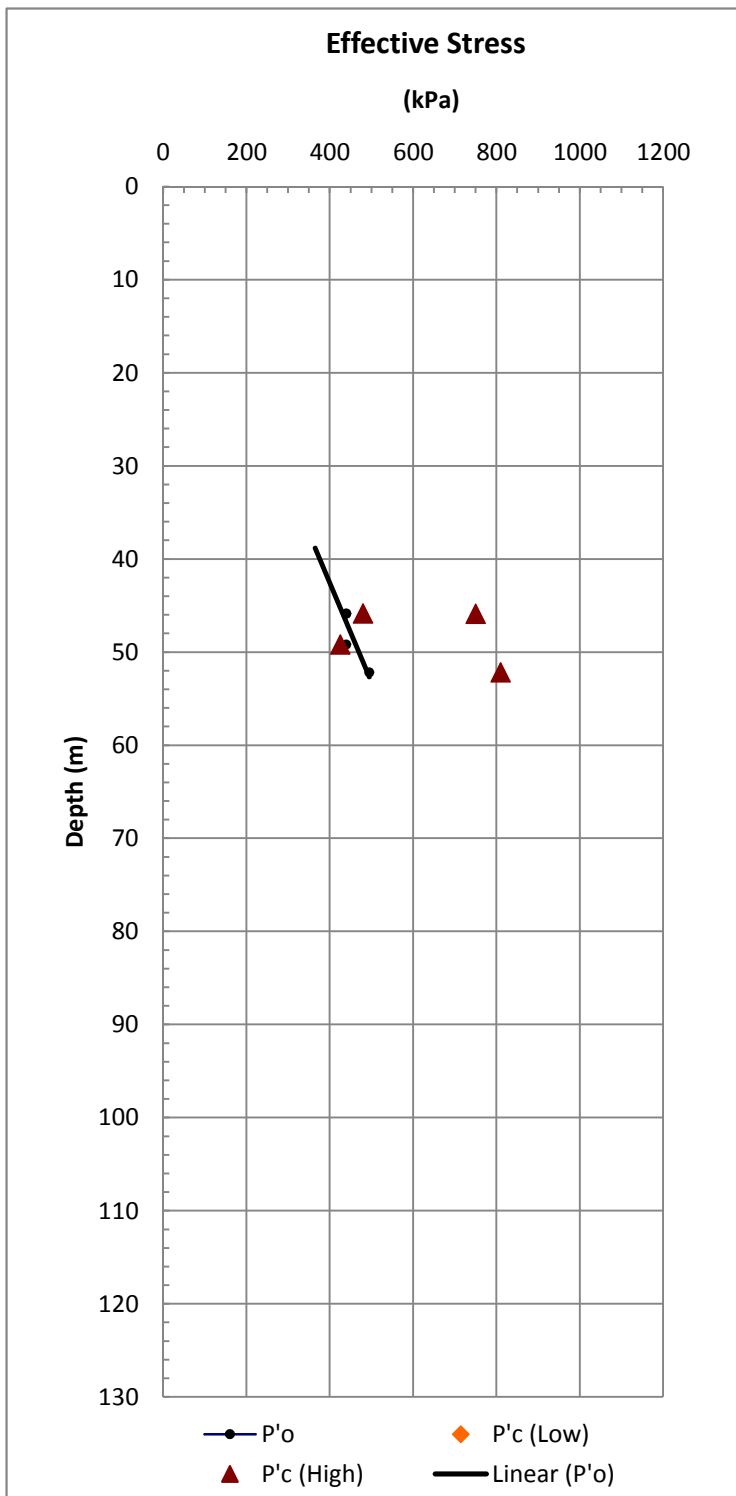
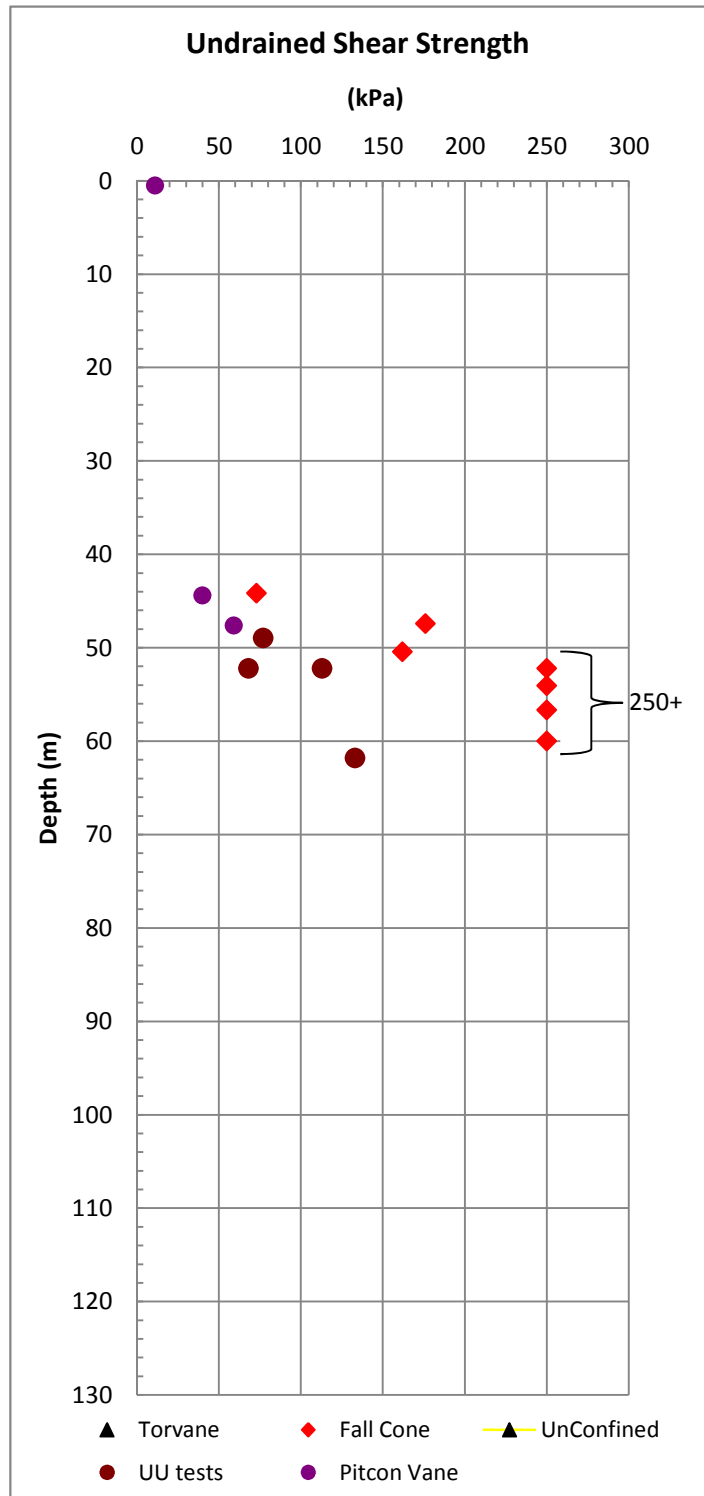
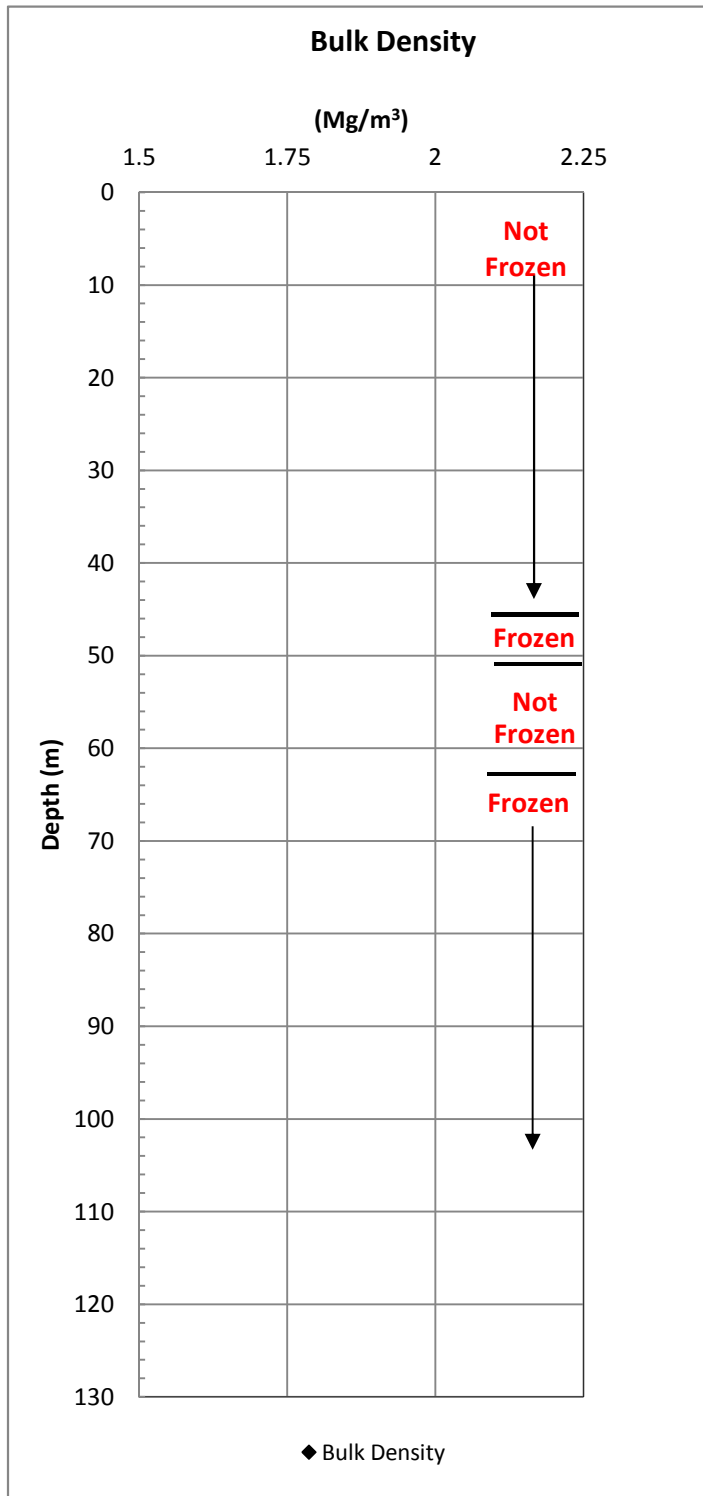


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Figure C.3

10033 Beaufort Data

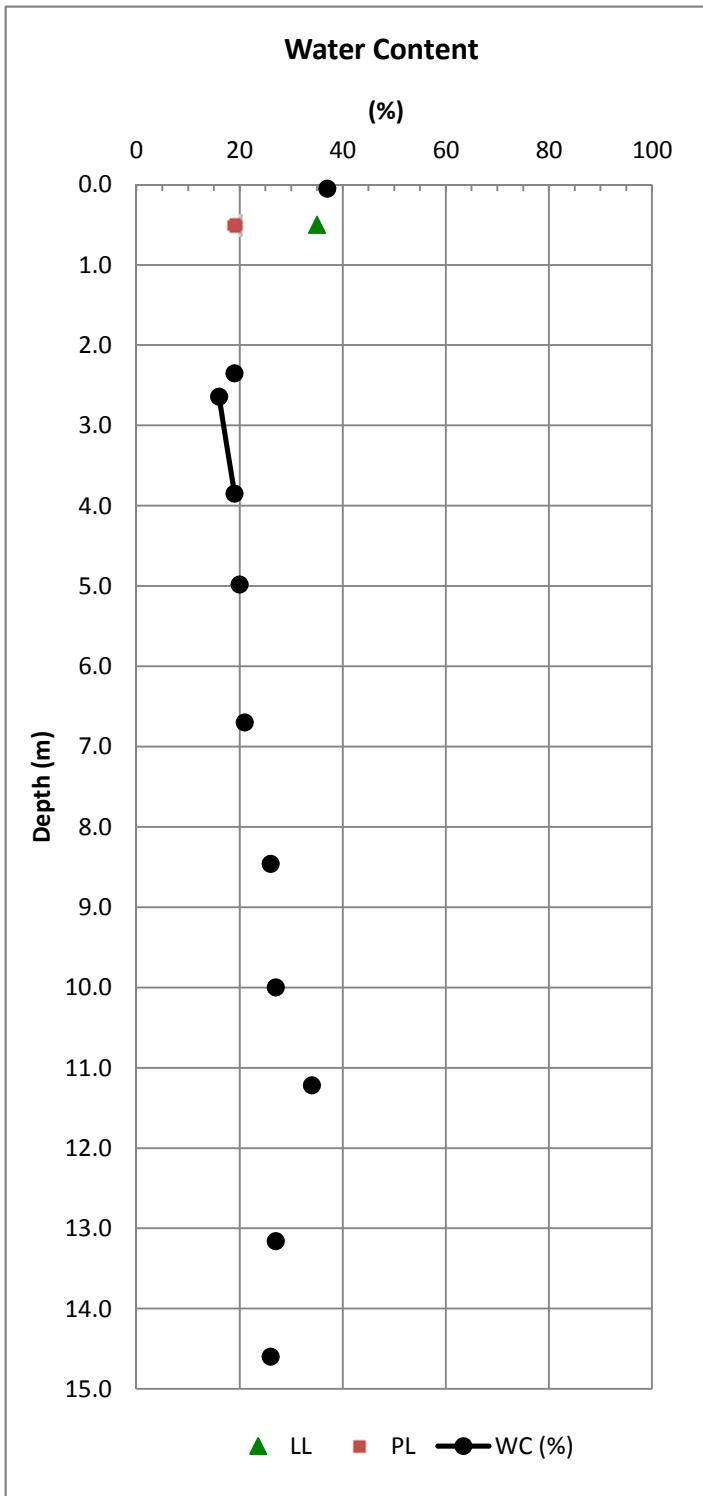
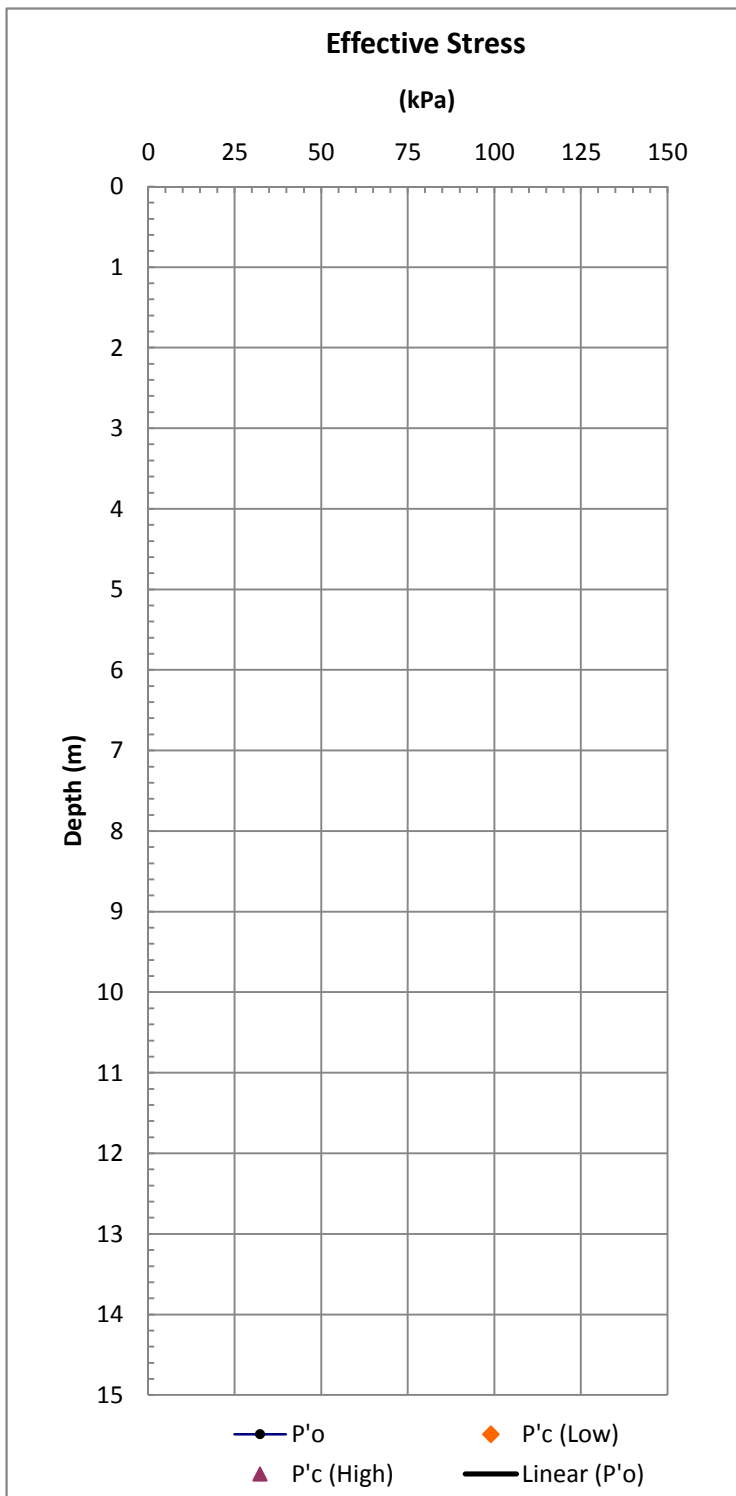
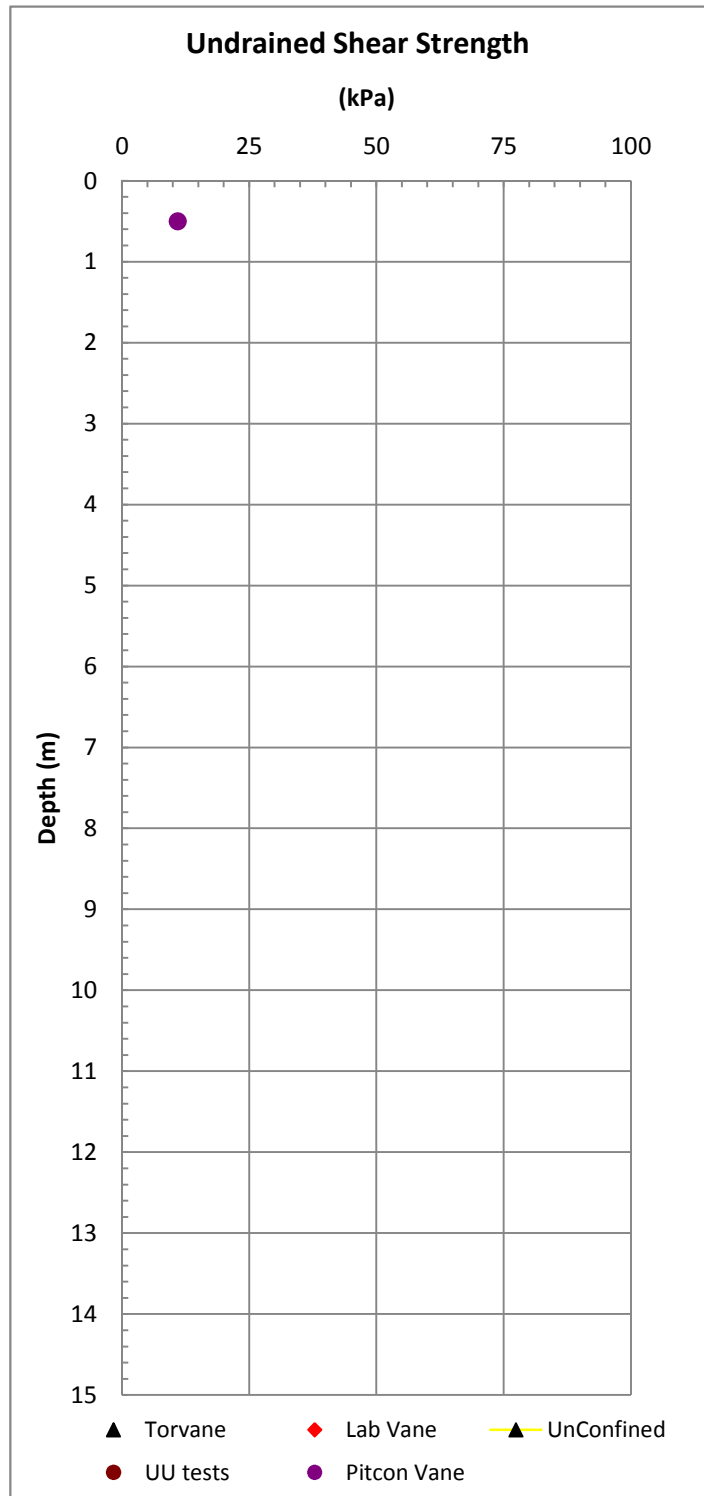
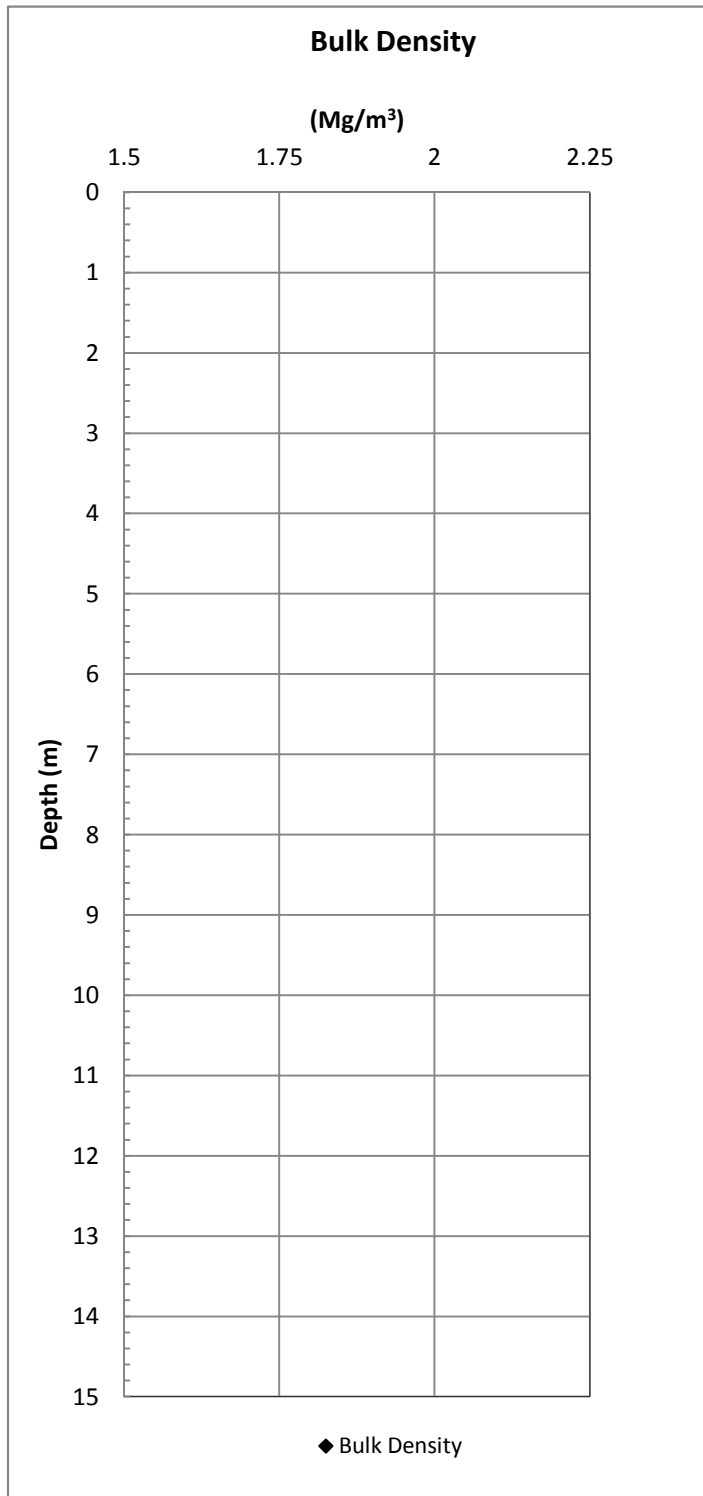


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Figure C.3

10033 Beaufort Data



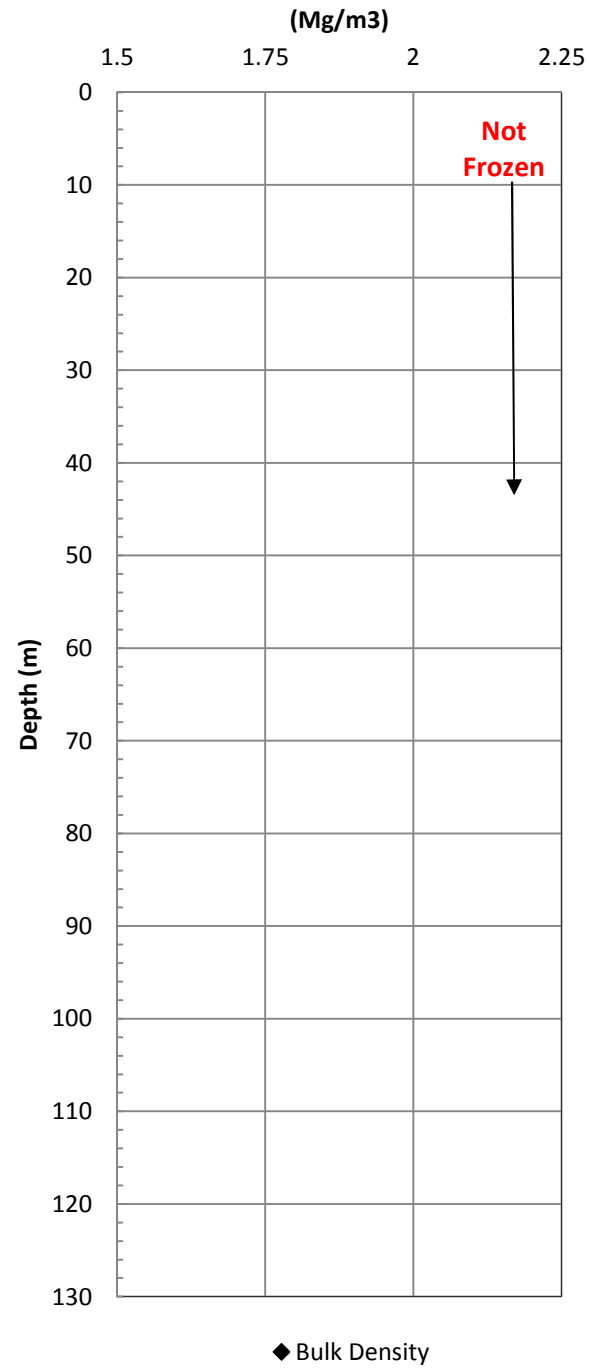
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Kogyuk N-67 KY82S03

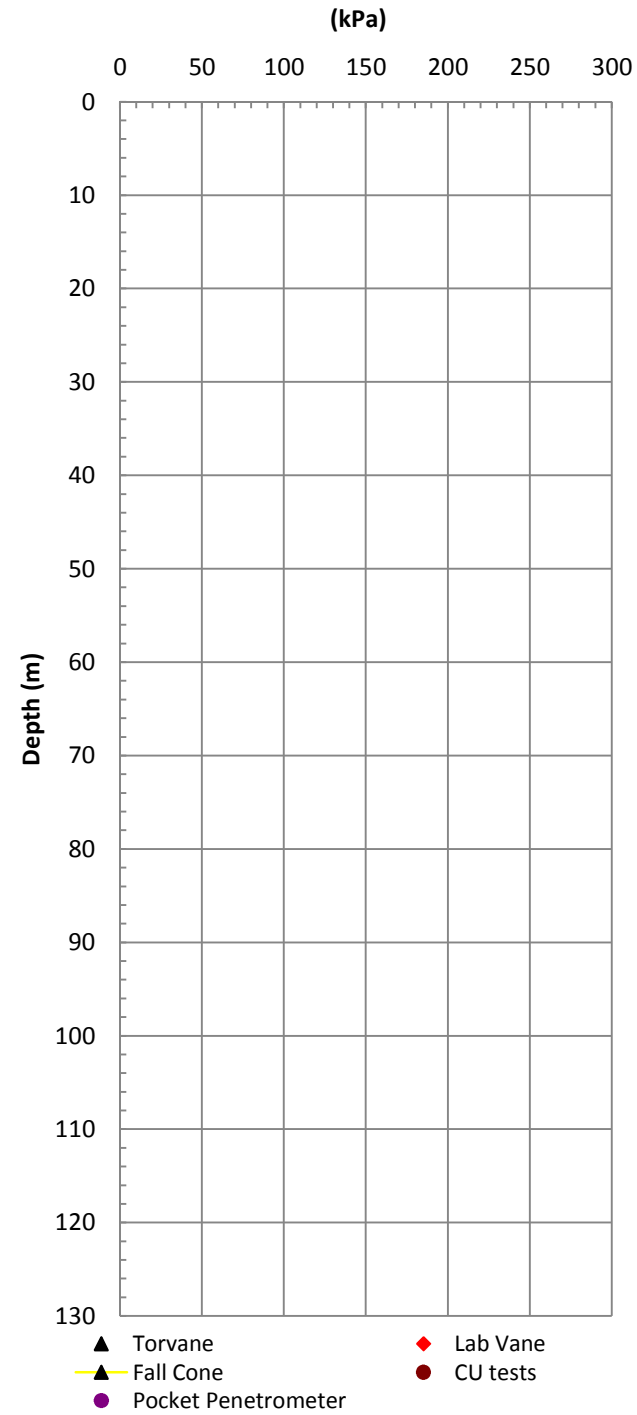
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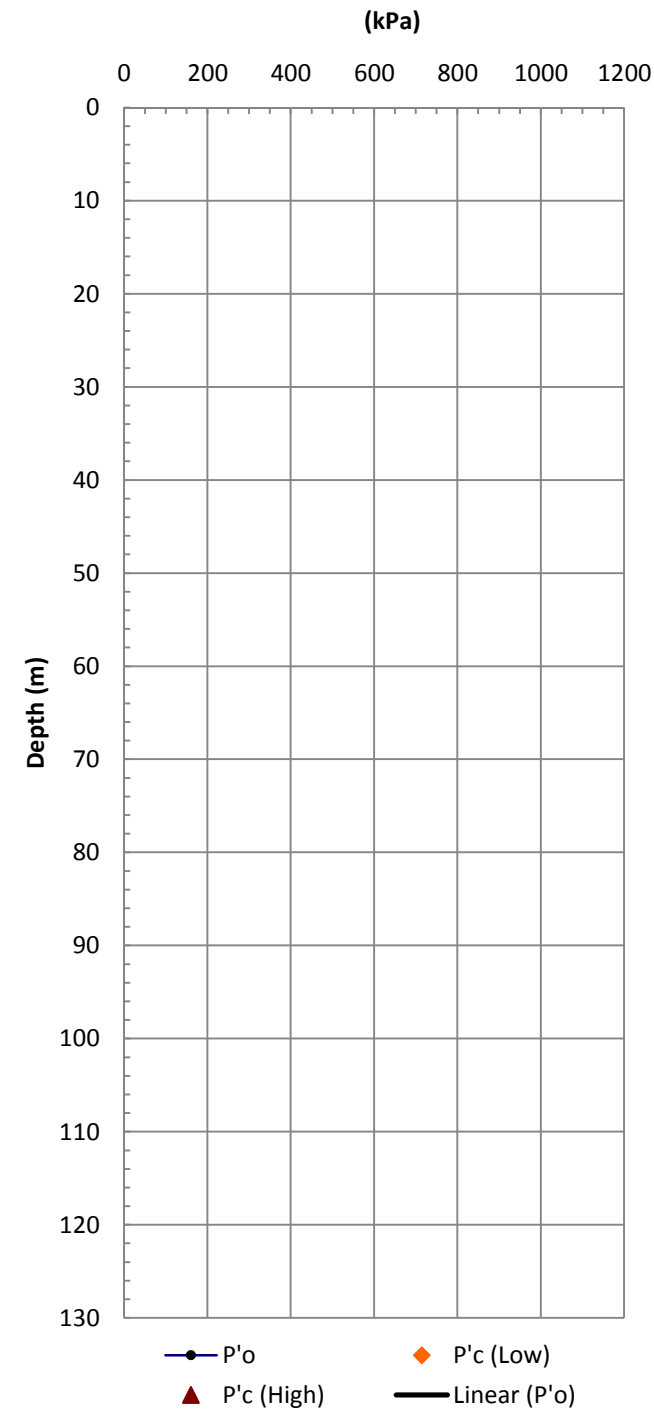
Bulk Density



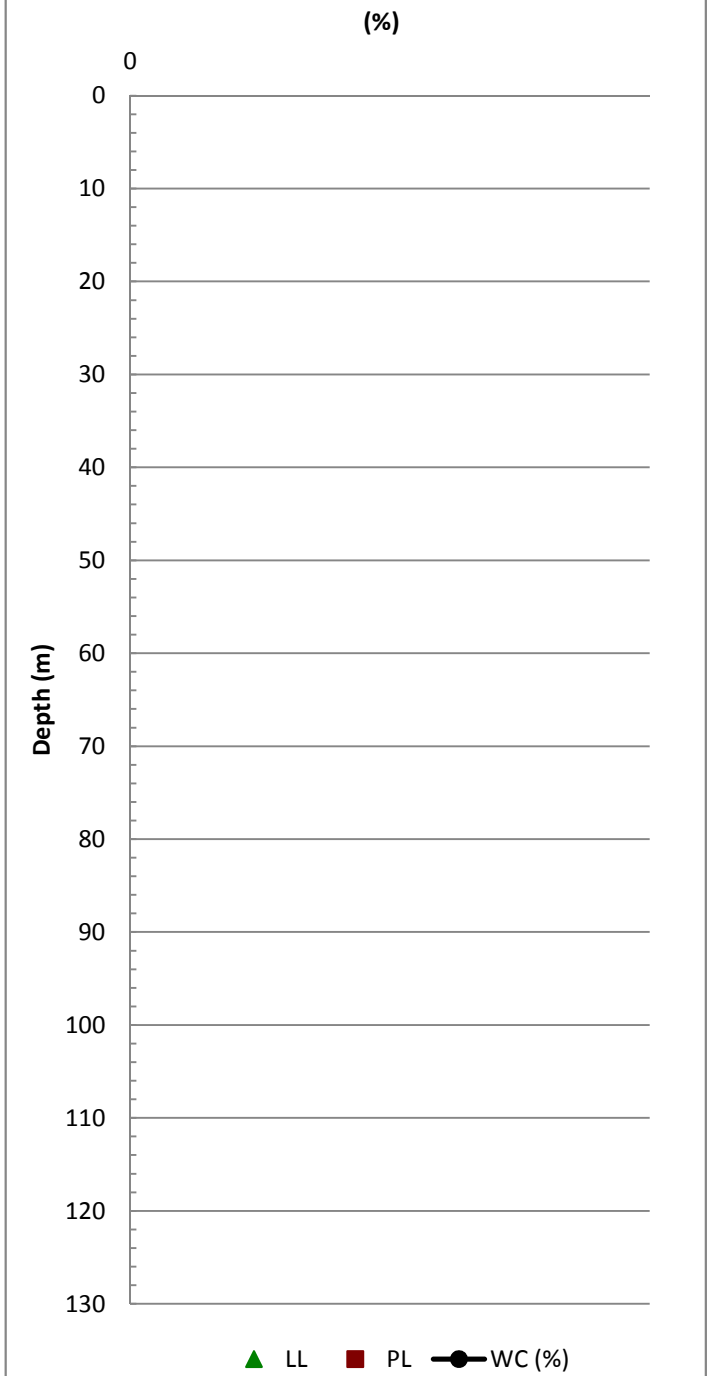
Undrained Shear Strength



Effective Stress



Water Content

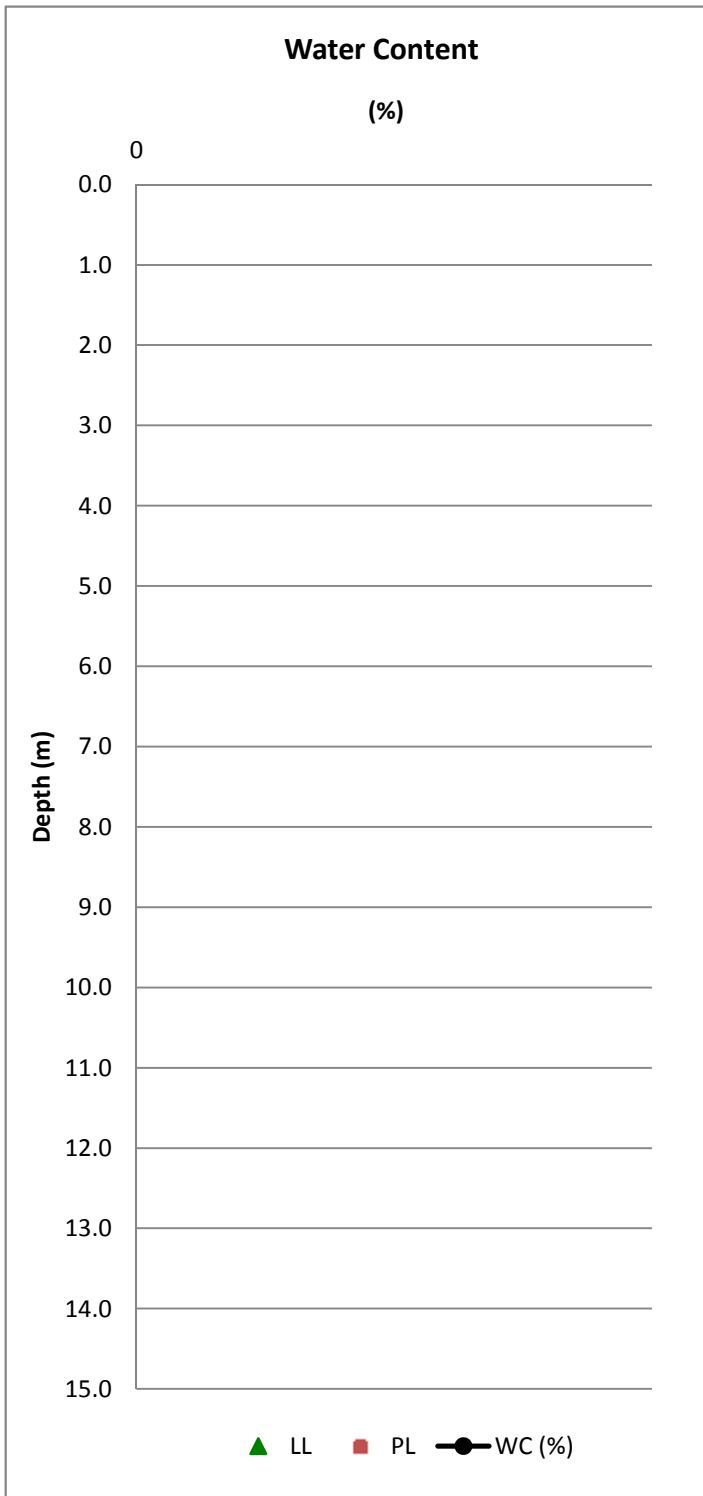
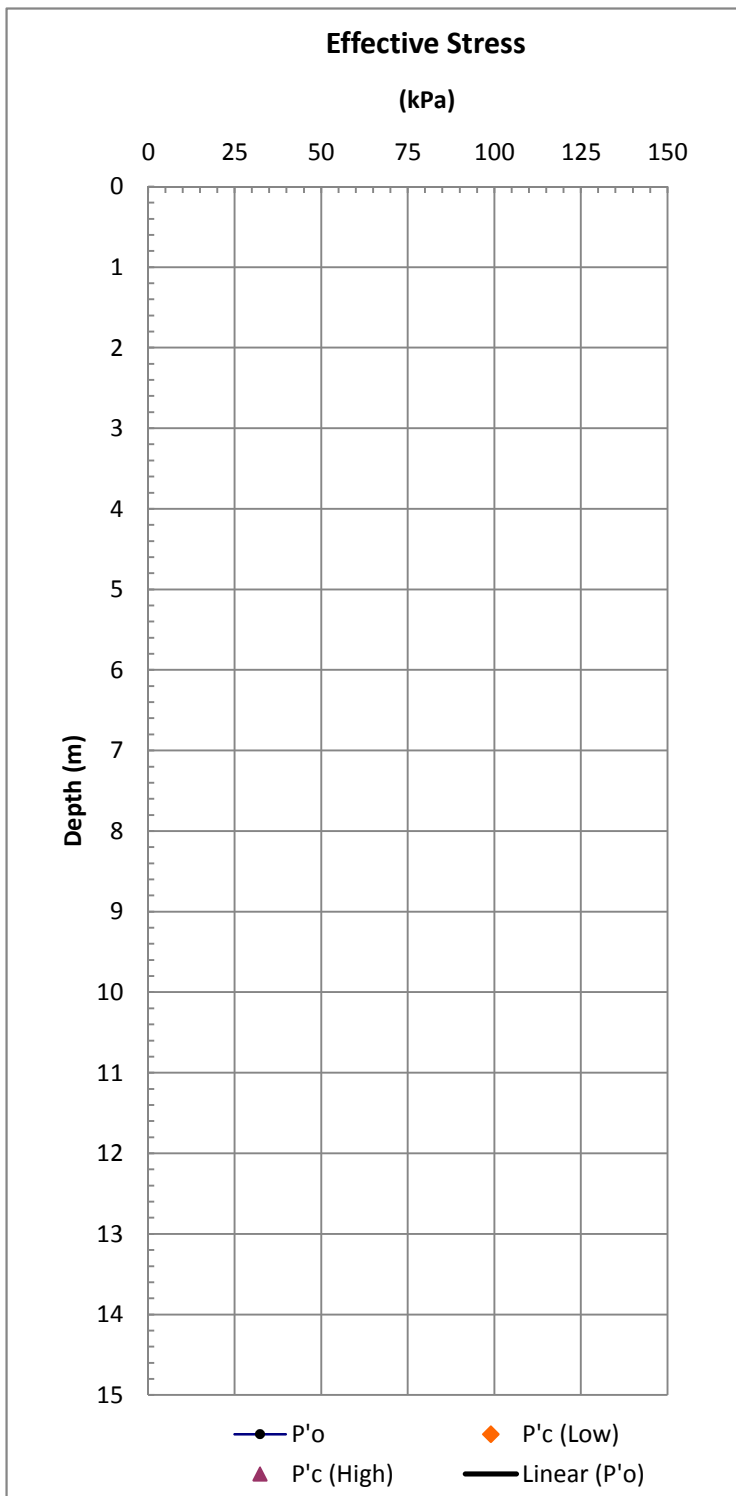
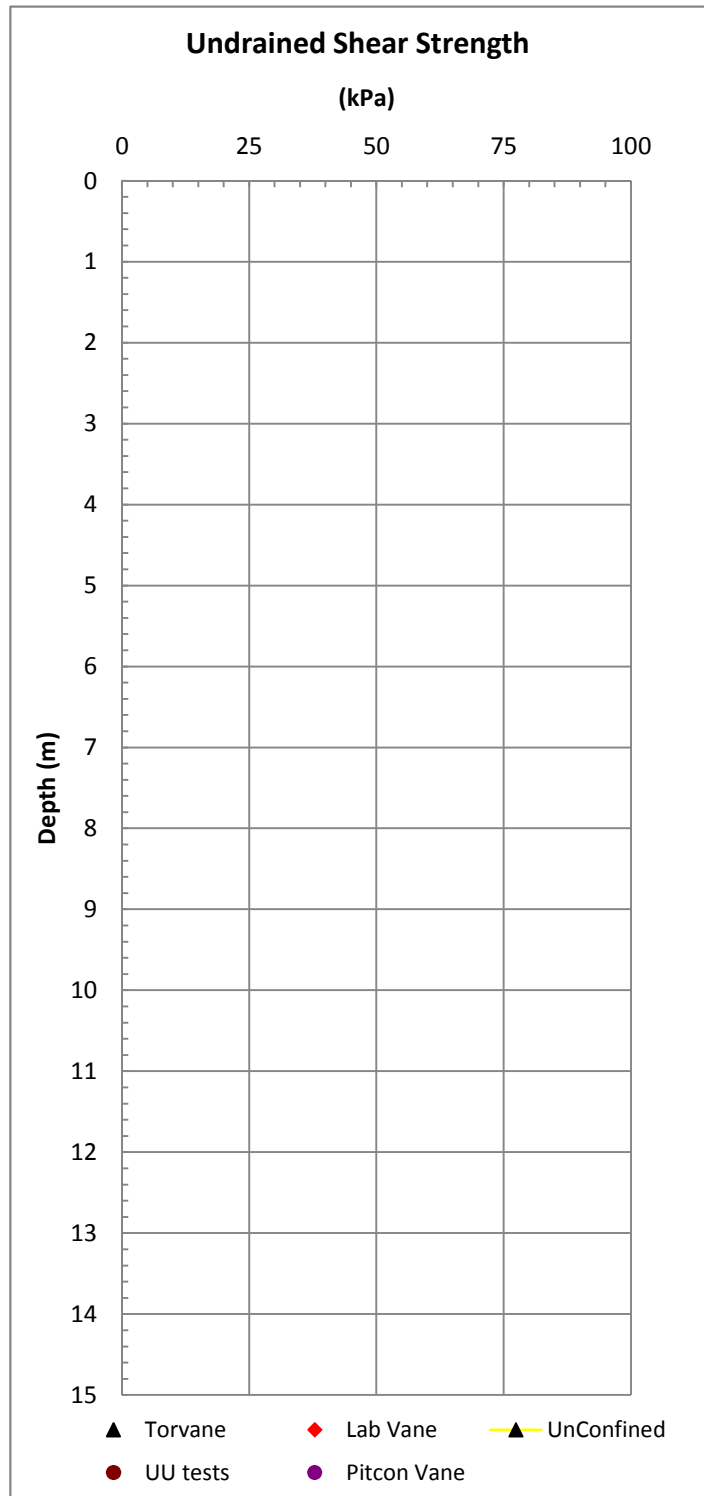
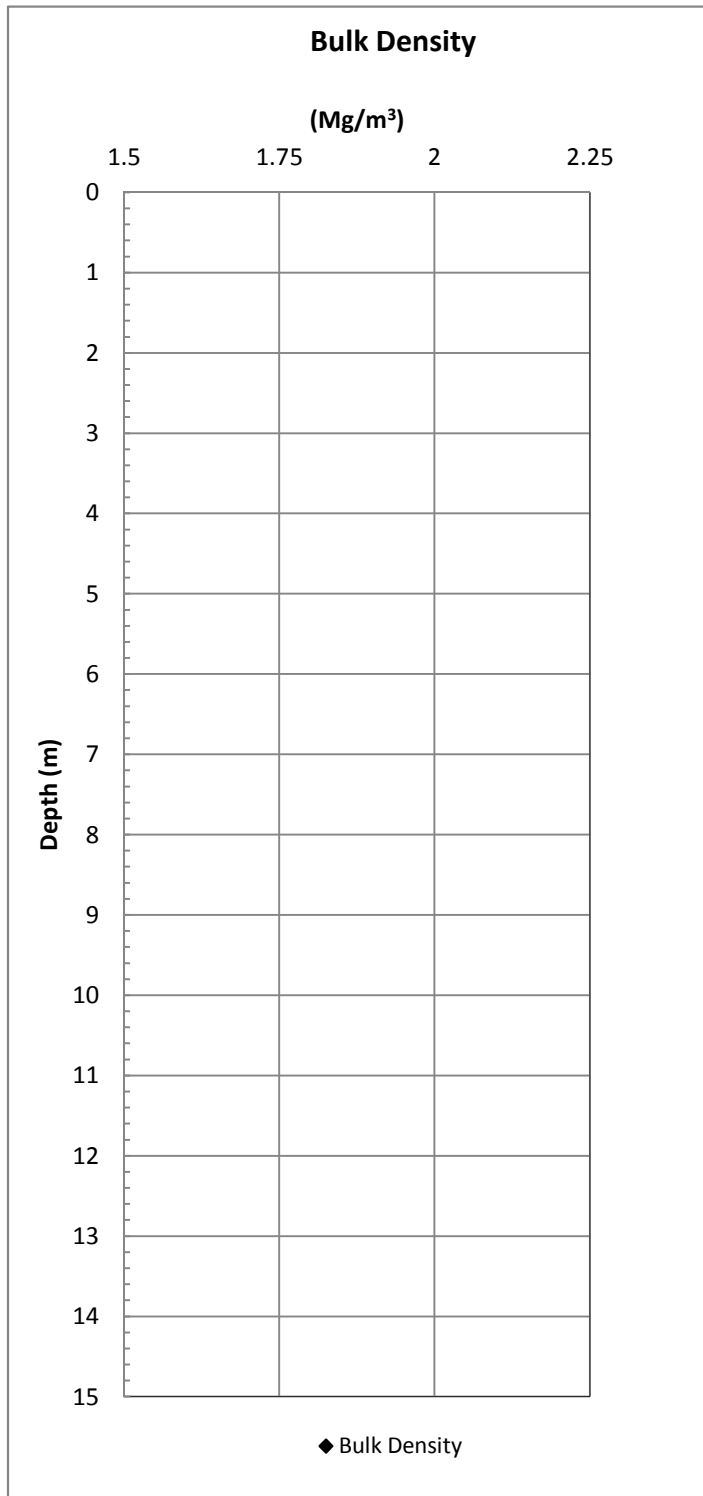


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Kogyuk VC-01

Figure C.3

10033 Beaufort Data



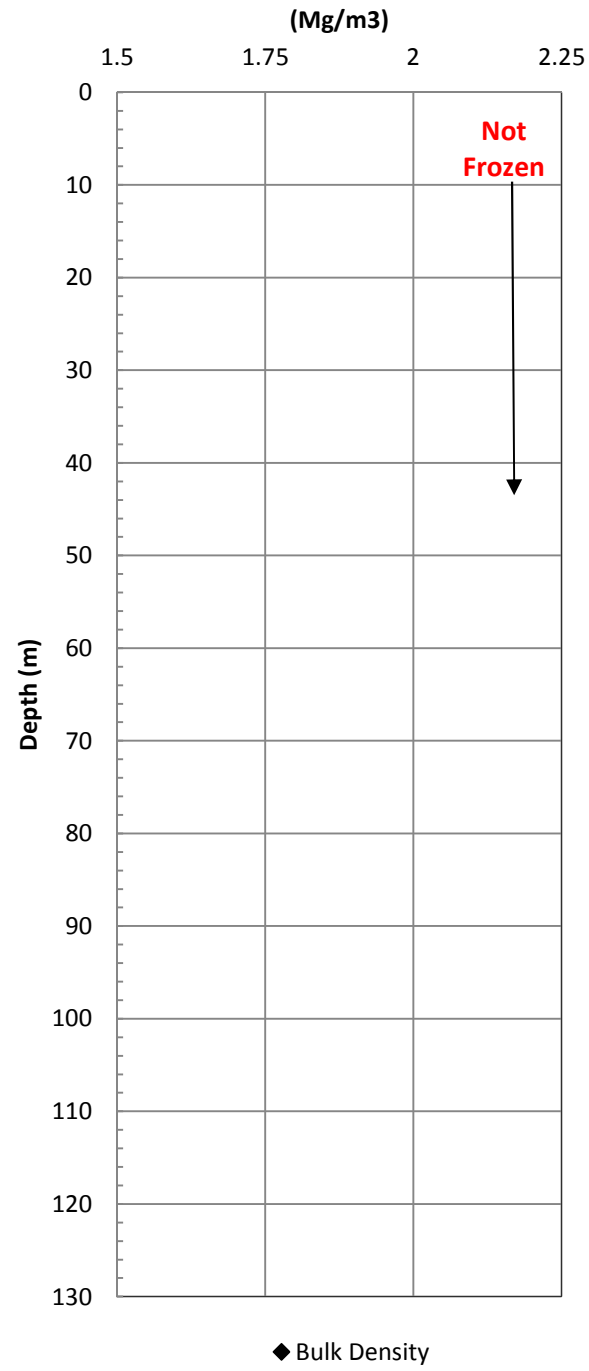
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Kogyuk VC-01

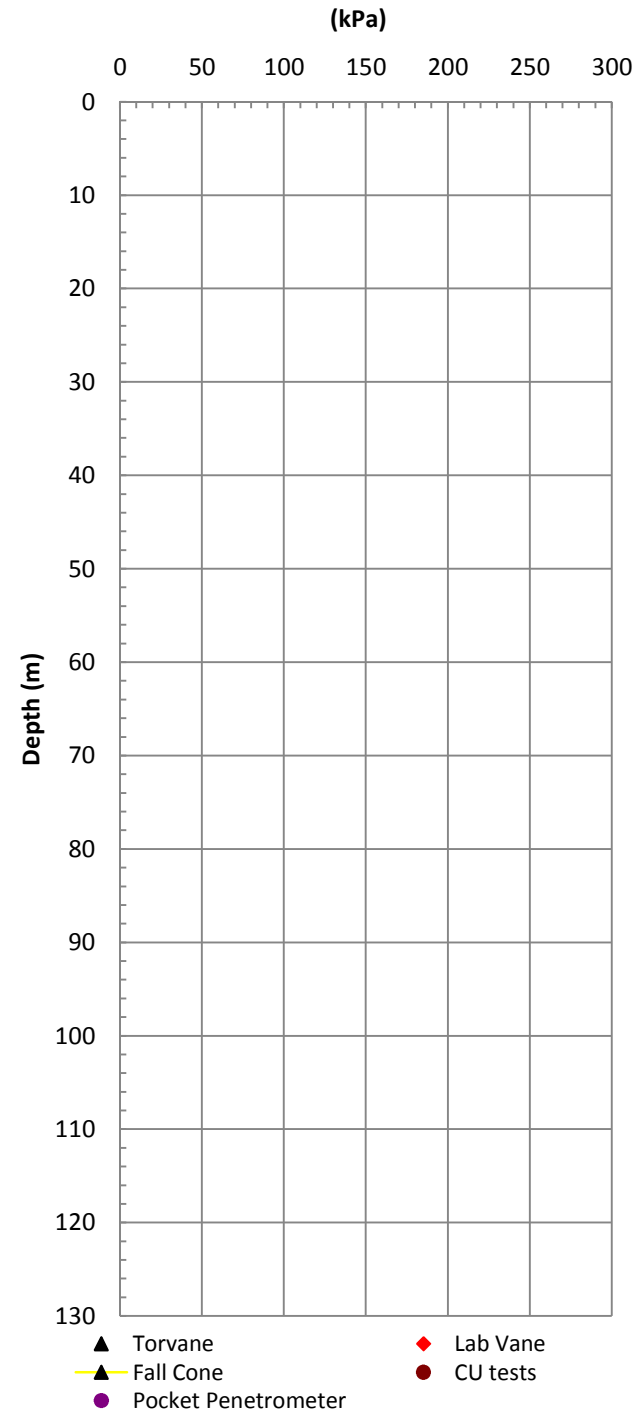
Figure C.3

10033 Beaufort Data

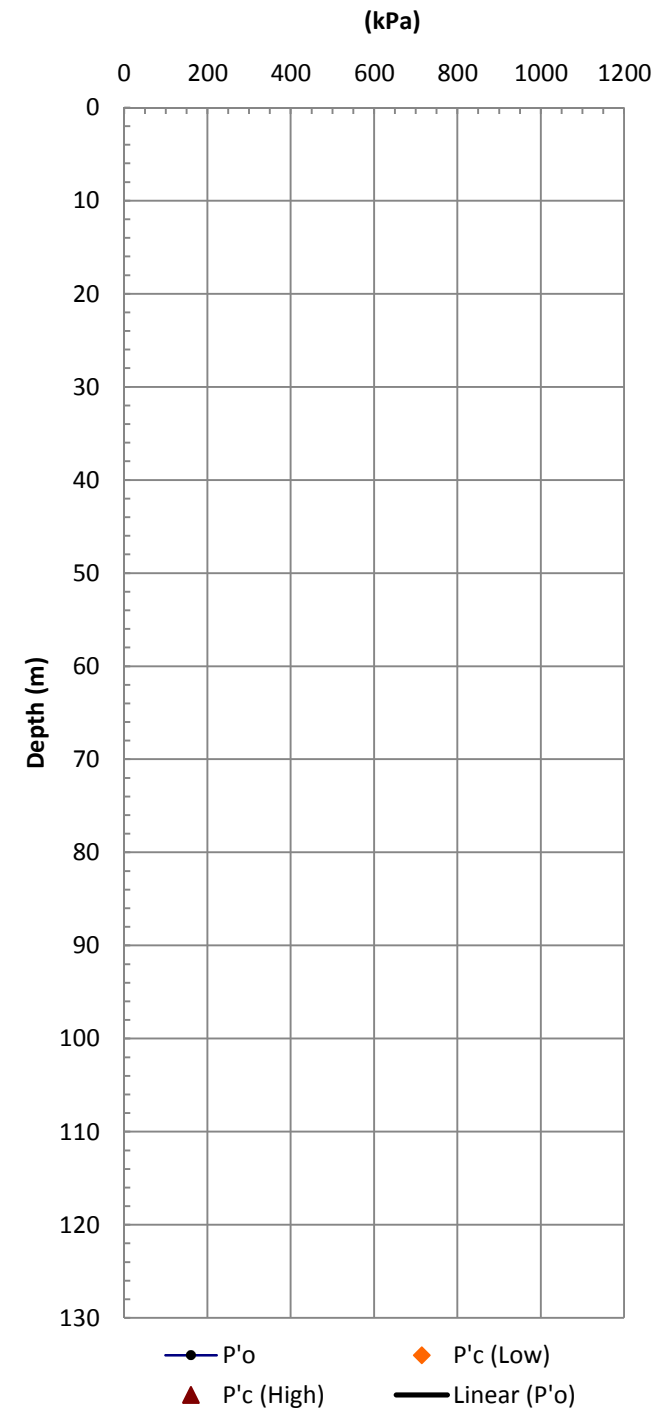
Bulk Density



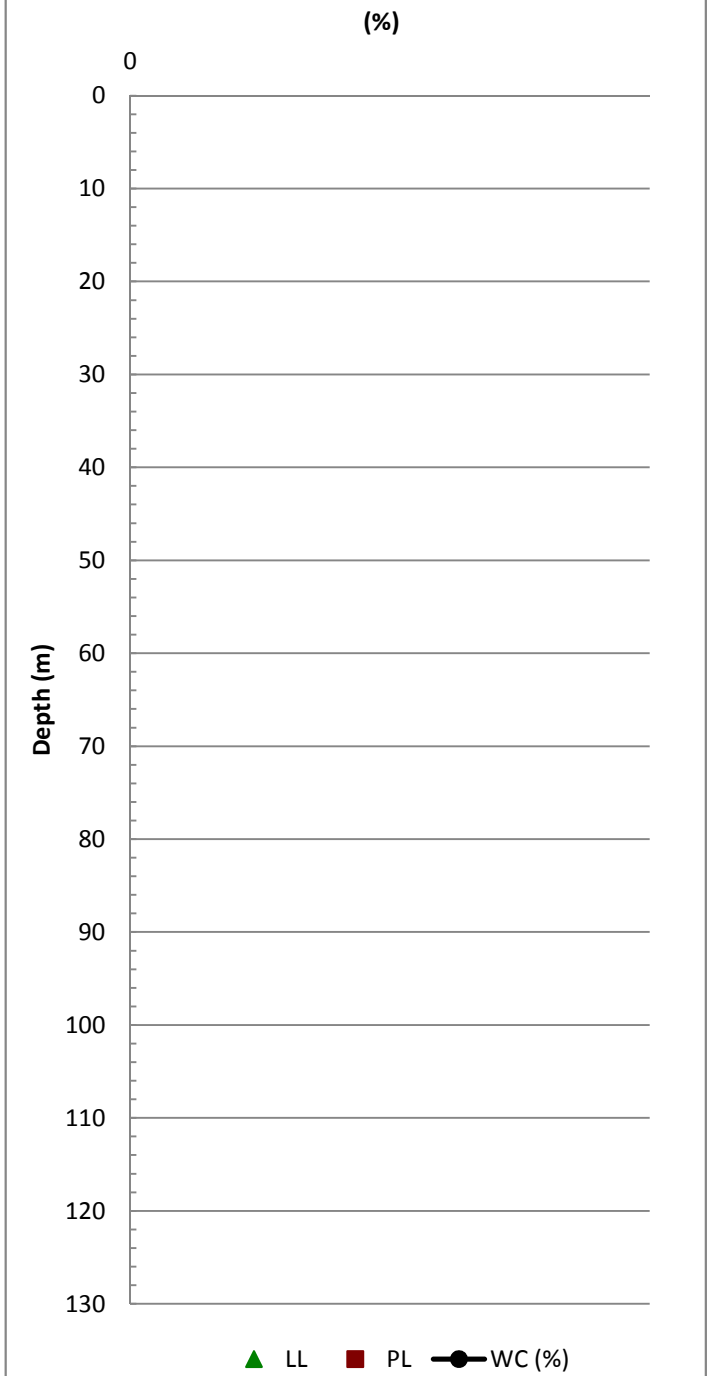
Undrained Shear Strength



Effective Stress



Water Content

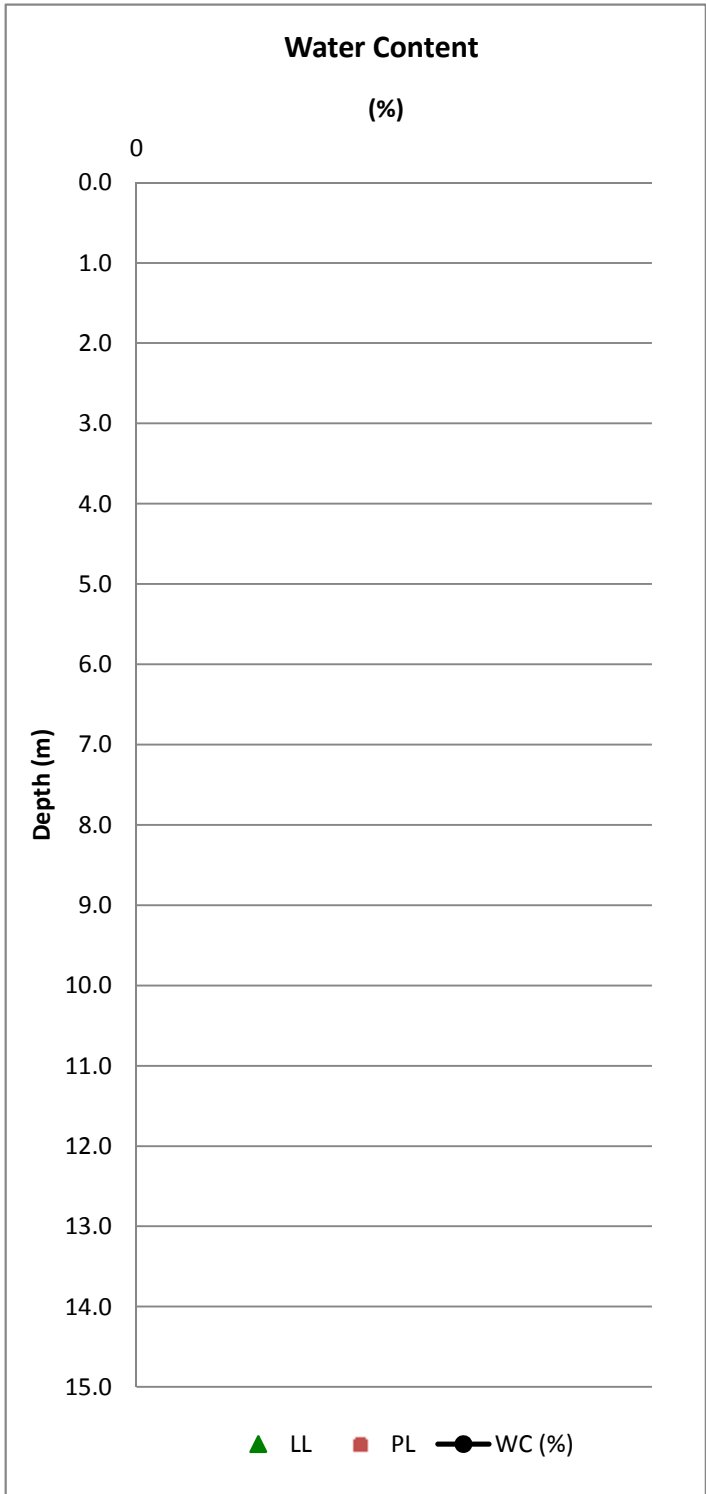
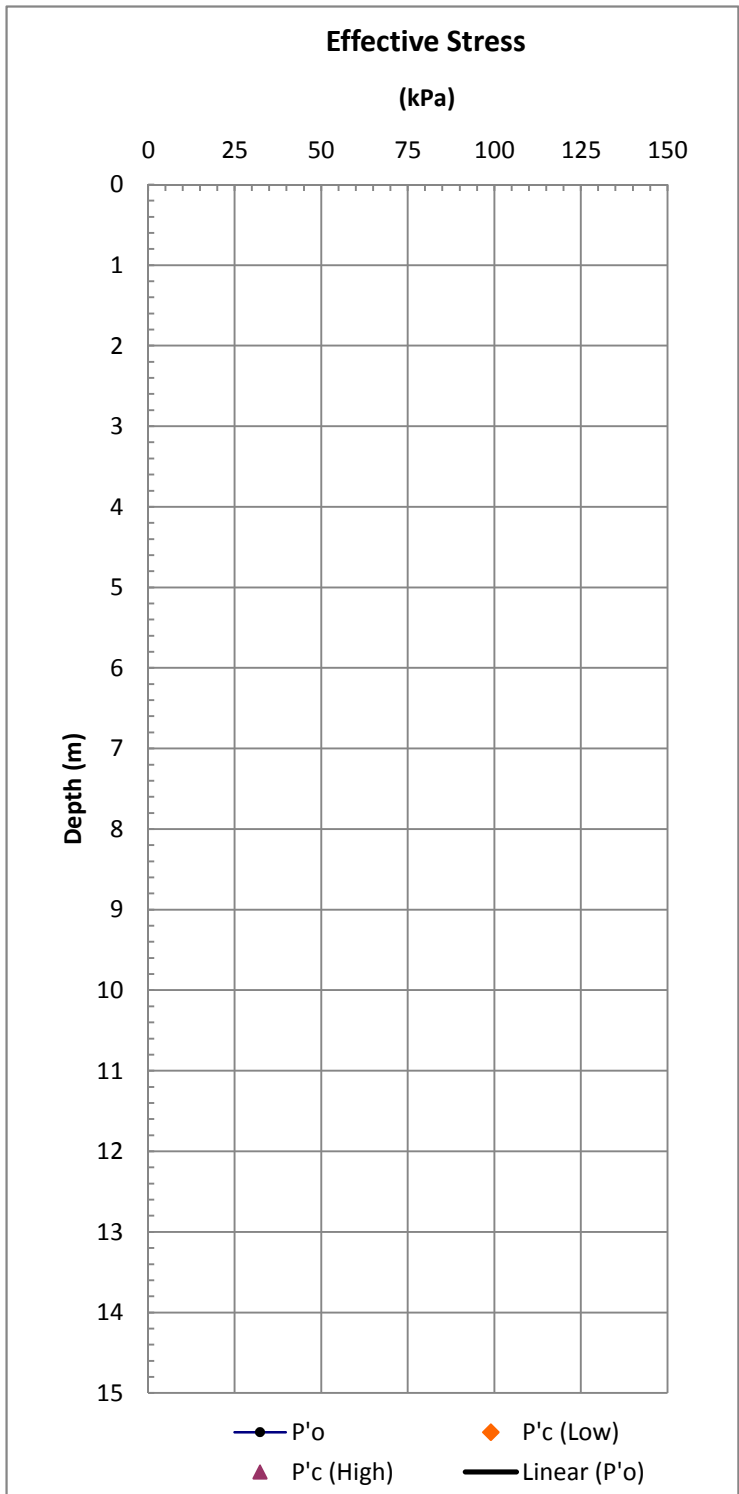
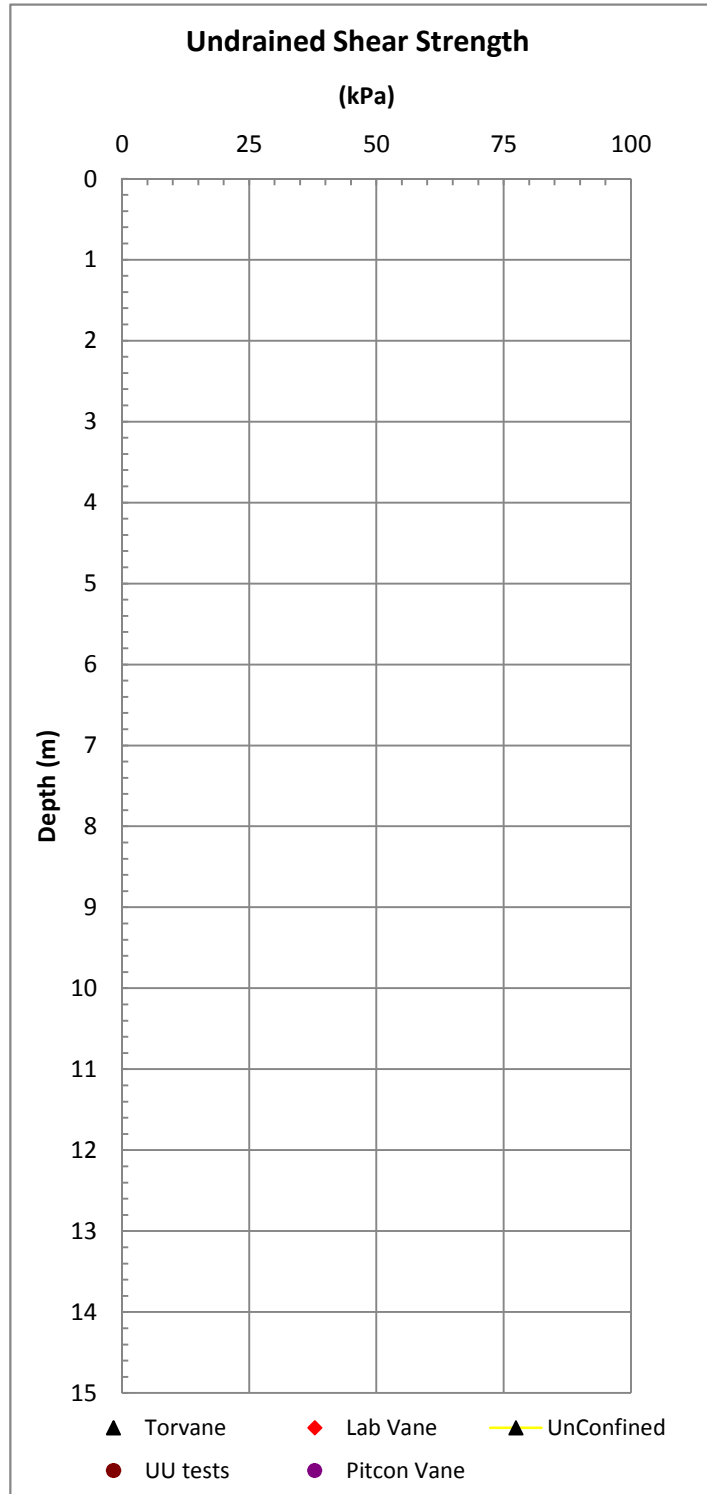
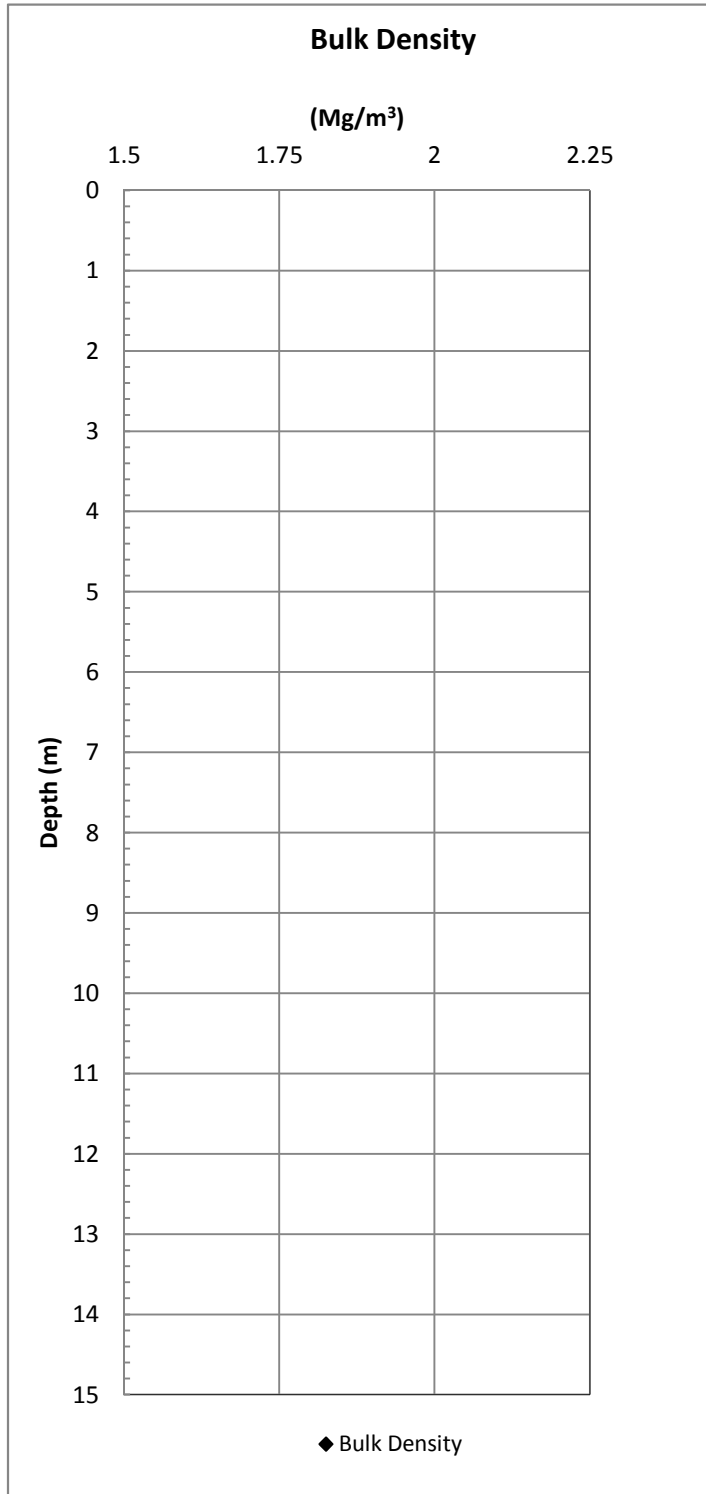


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Kogyuk VC-02

Figure C.3

10033 Beaufort Data



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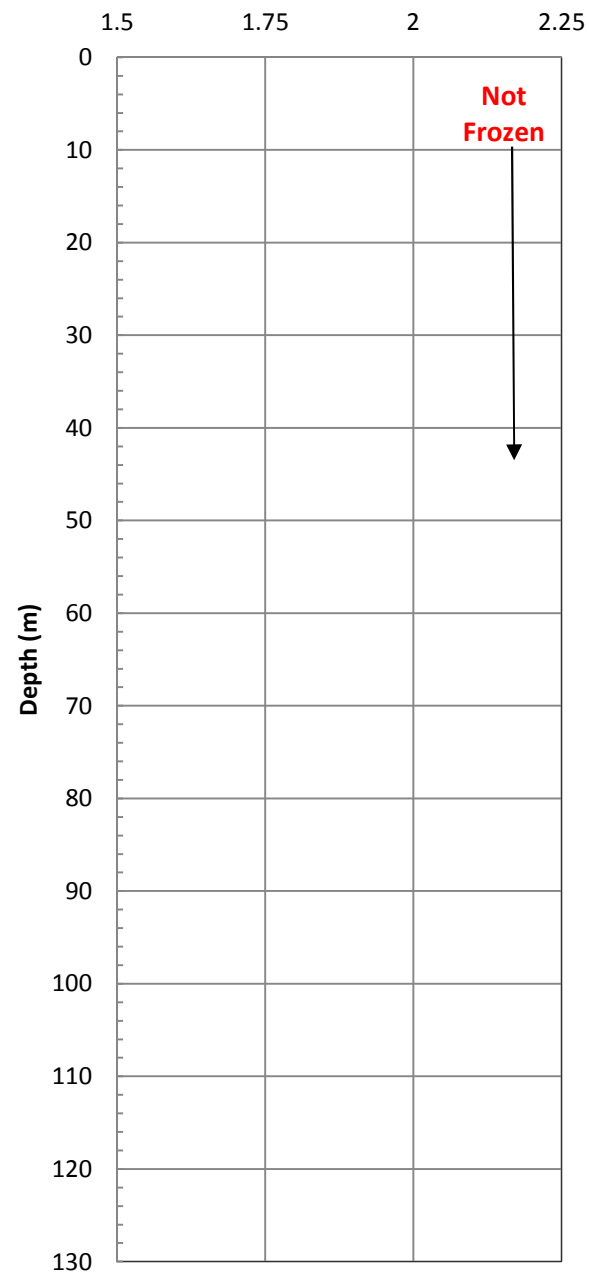
Kogyuk VC-02

Figure C.3

10033 Beaufort Data

Bulk Density

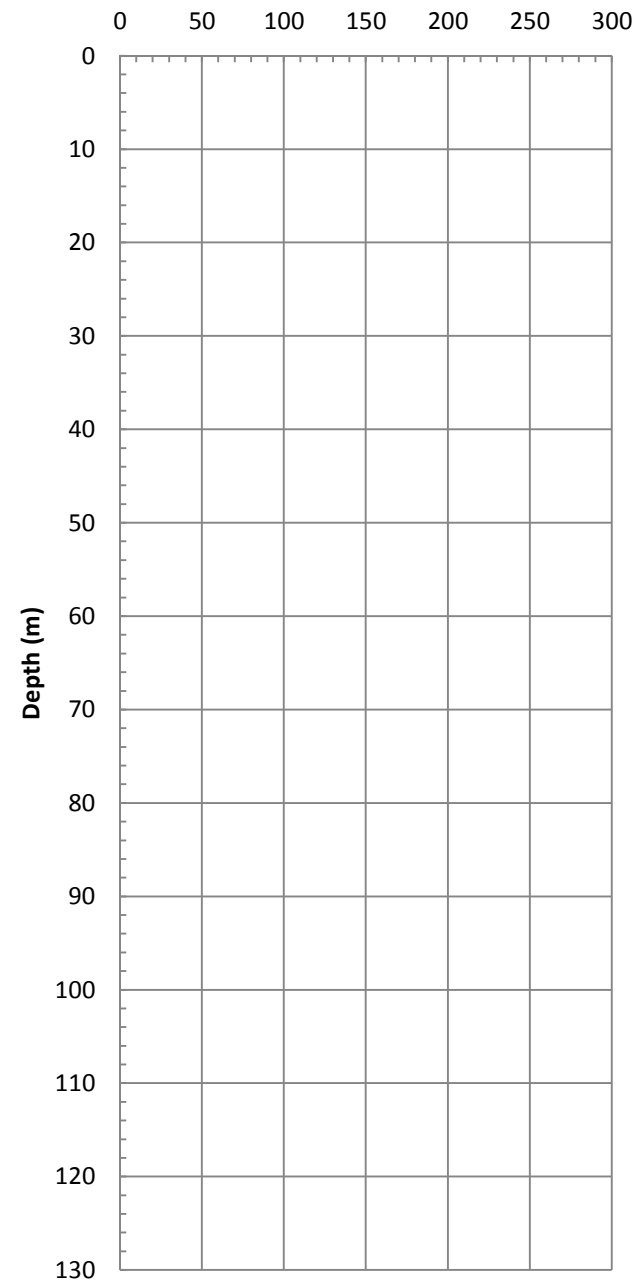
(Mg/m³)



◆ Bulk Density

Undrained Shear Strength

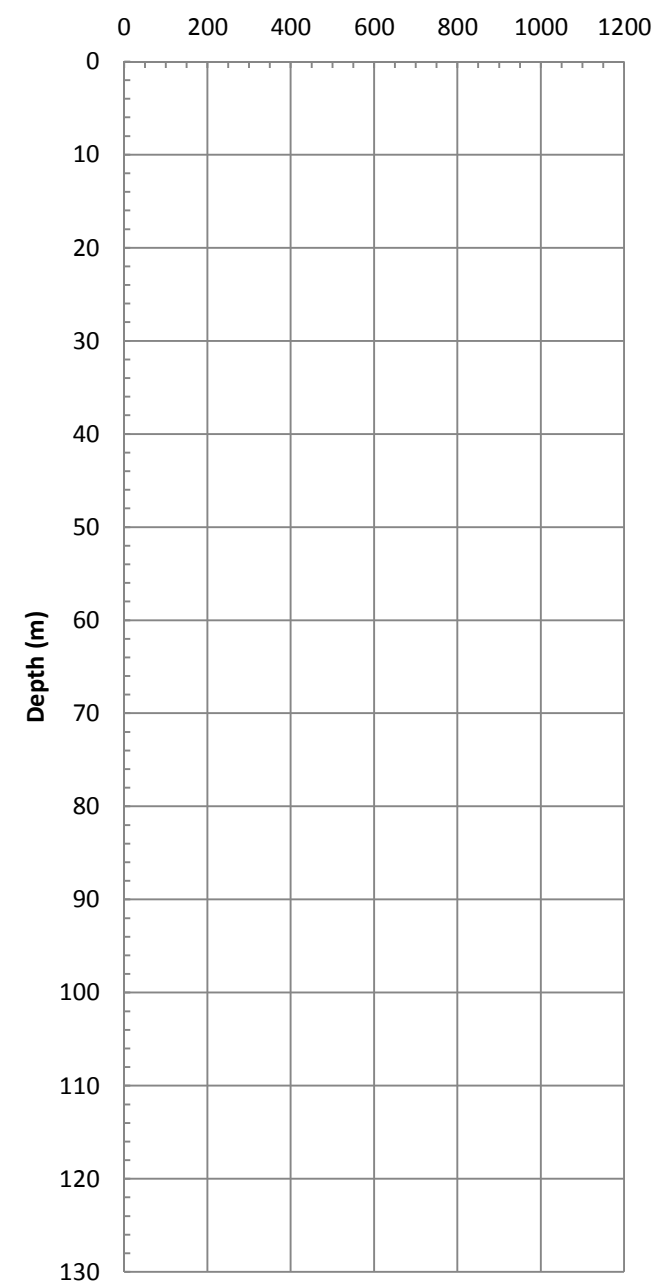
(kPa)



▲ Torvane ◆ Lab Vane
 ▲ Fall Cone ● CU tests
 ● Pocket Penetrometer

Effective Stress

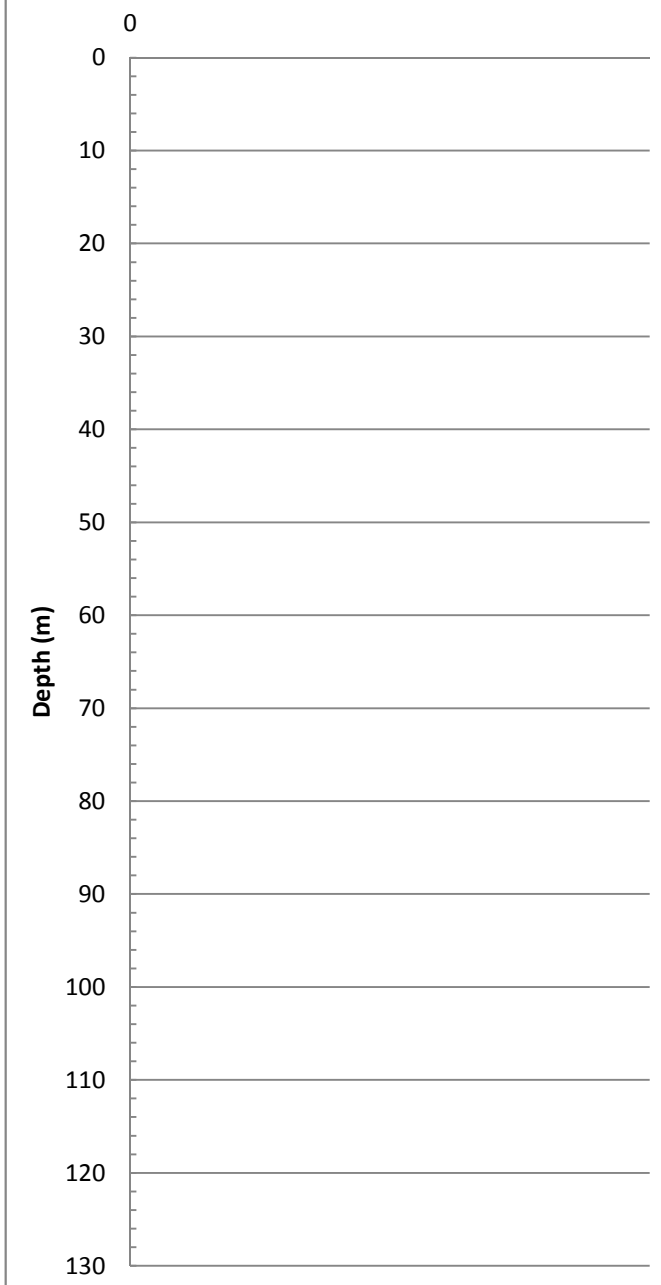
(kPa)



● P'o ◆ P'c (Low)
 ▲ P'c (High) — Linear (P'o)

Water Content

(%)



▲ LL ■ PL ● WC (%)

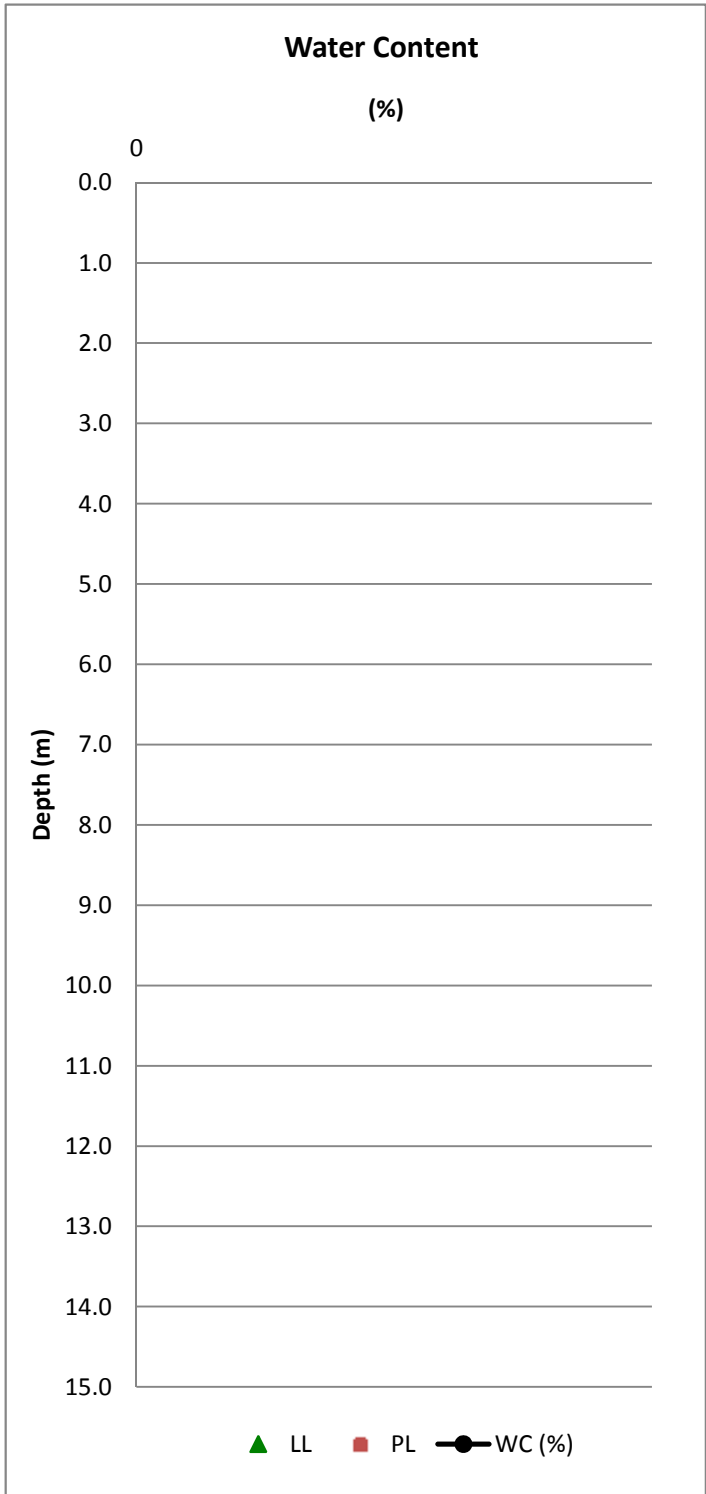
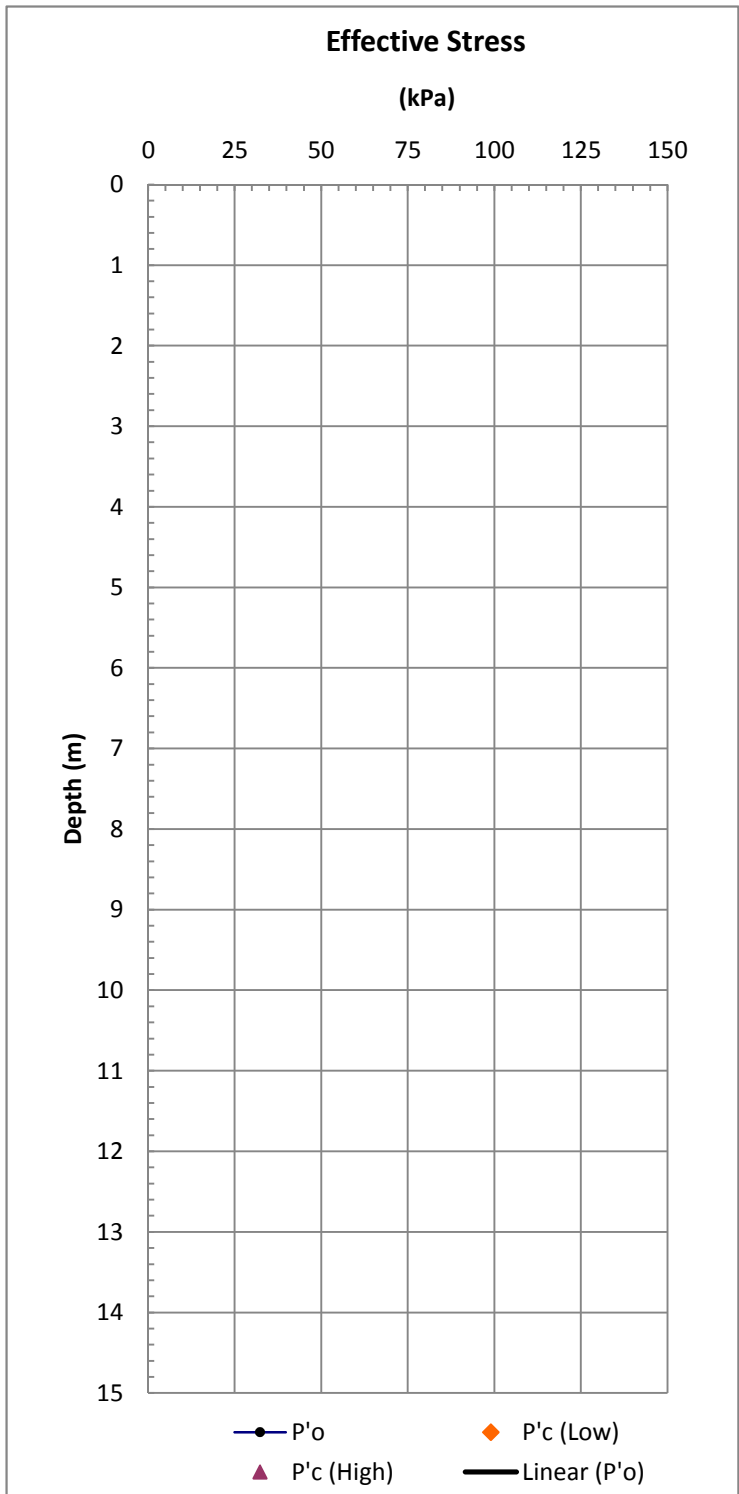
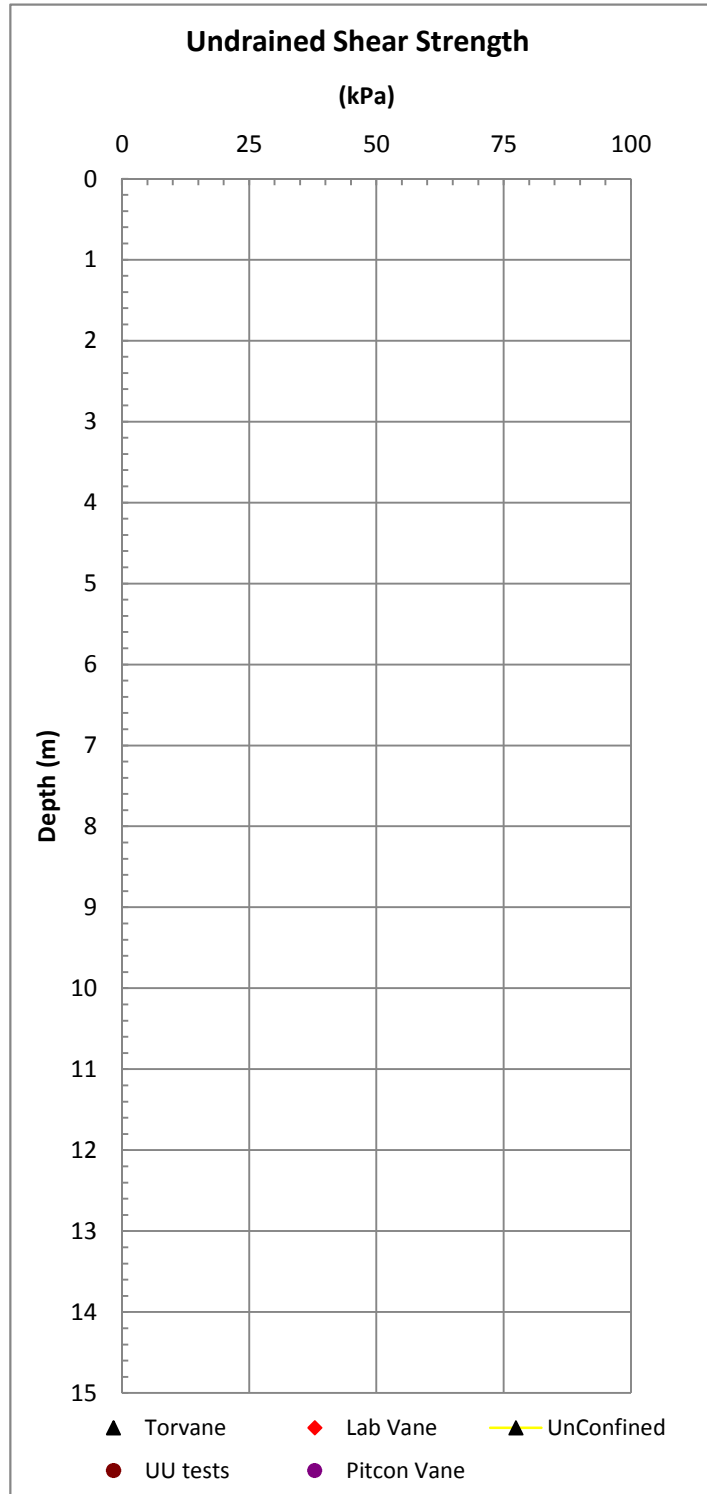
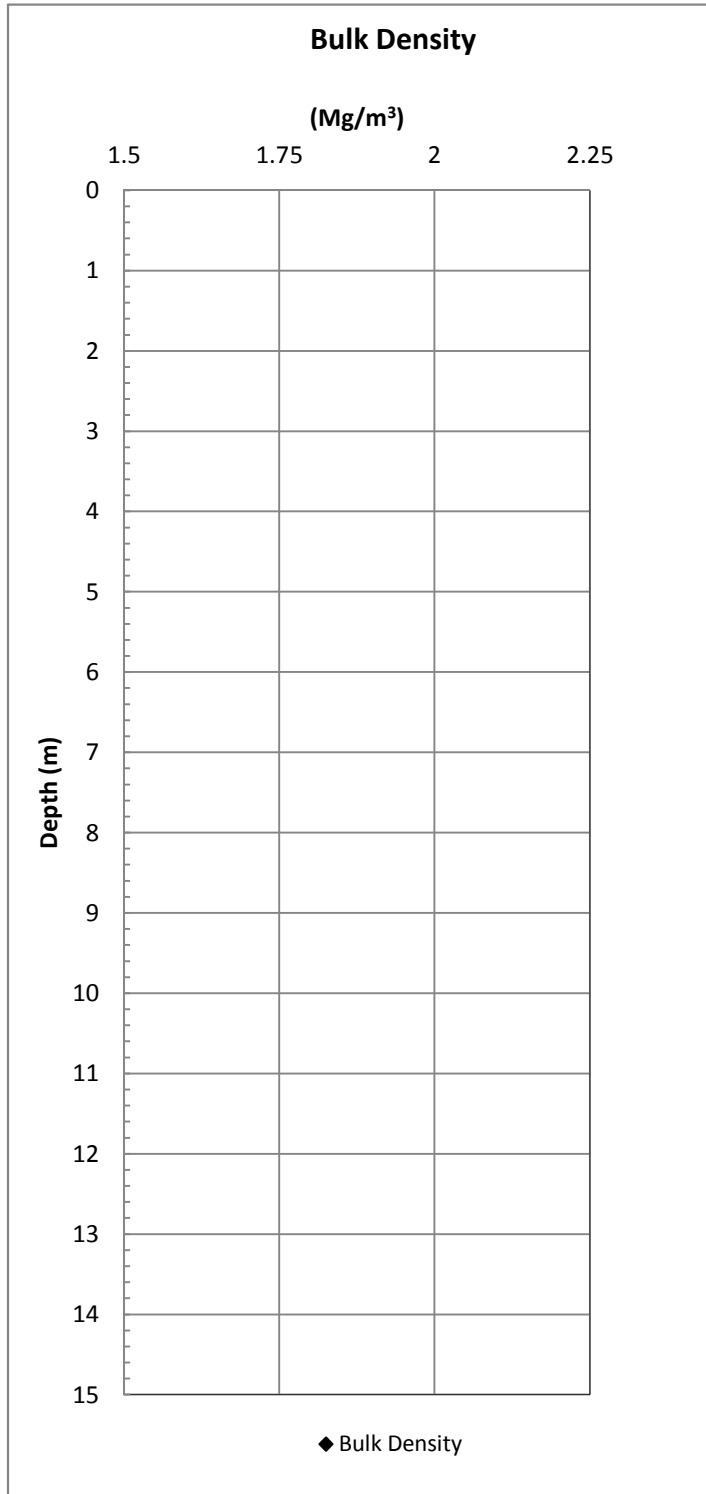


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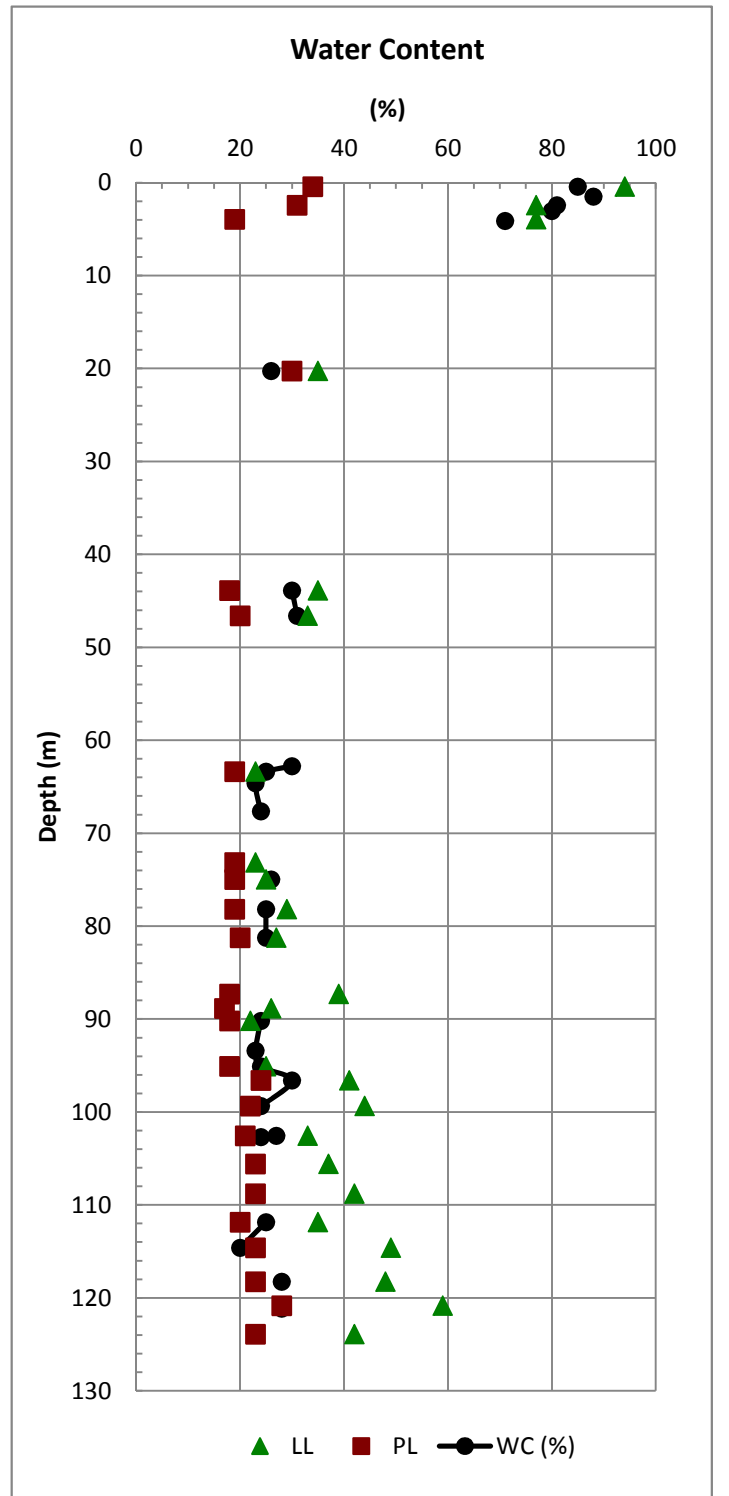
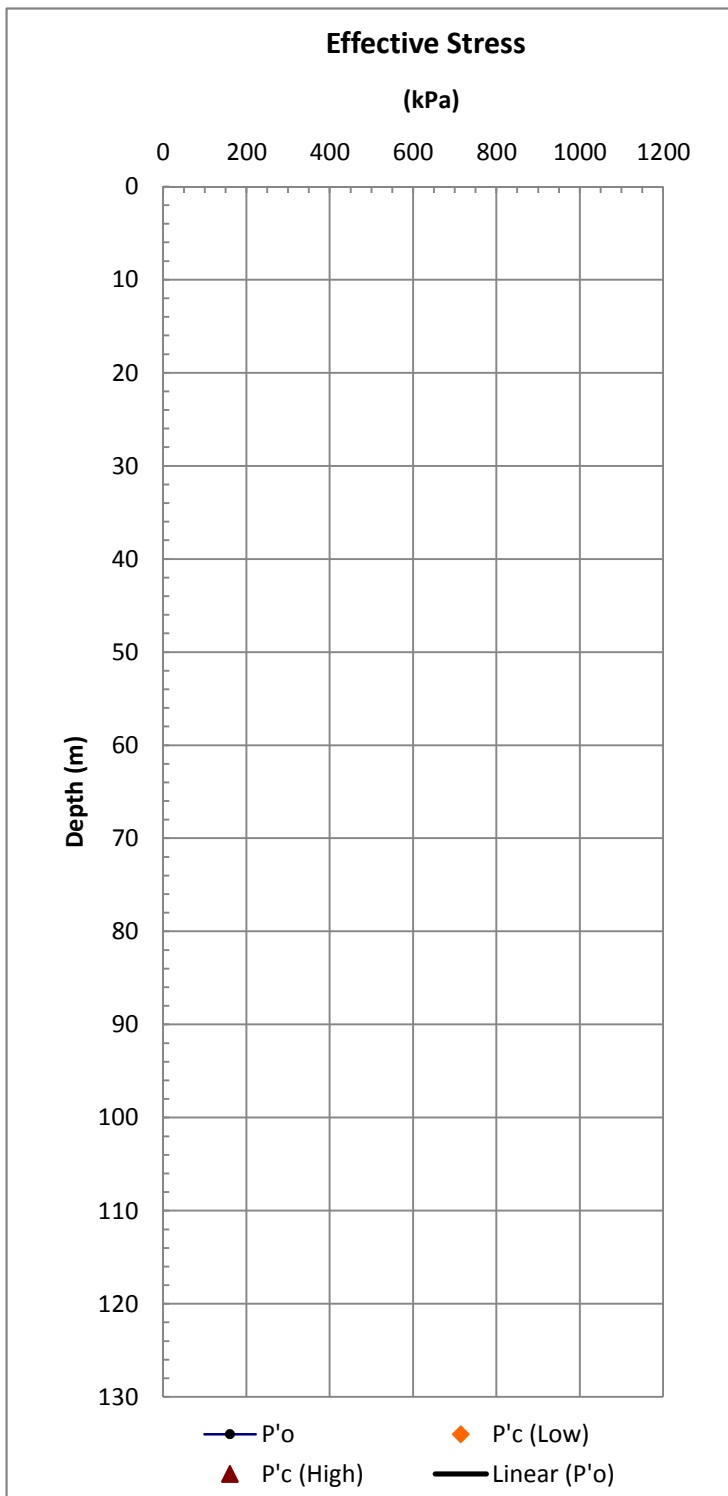
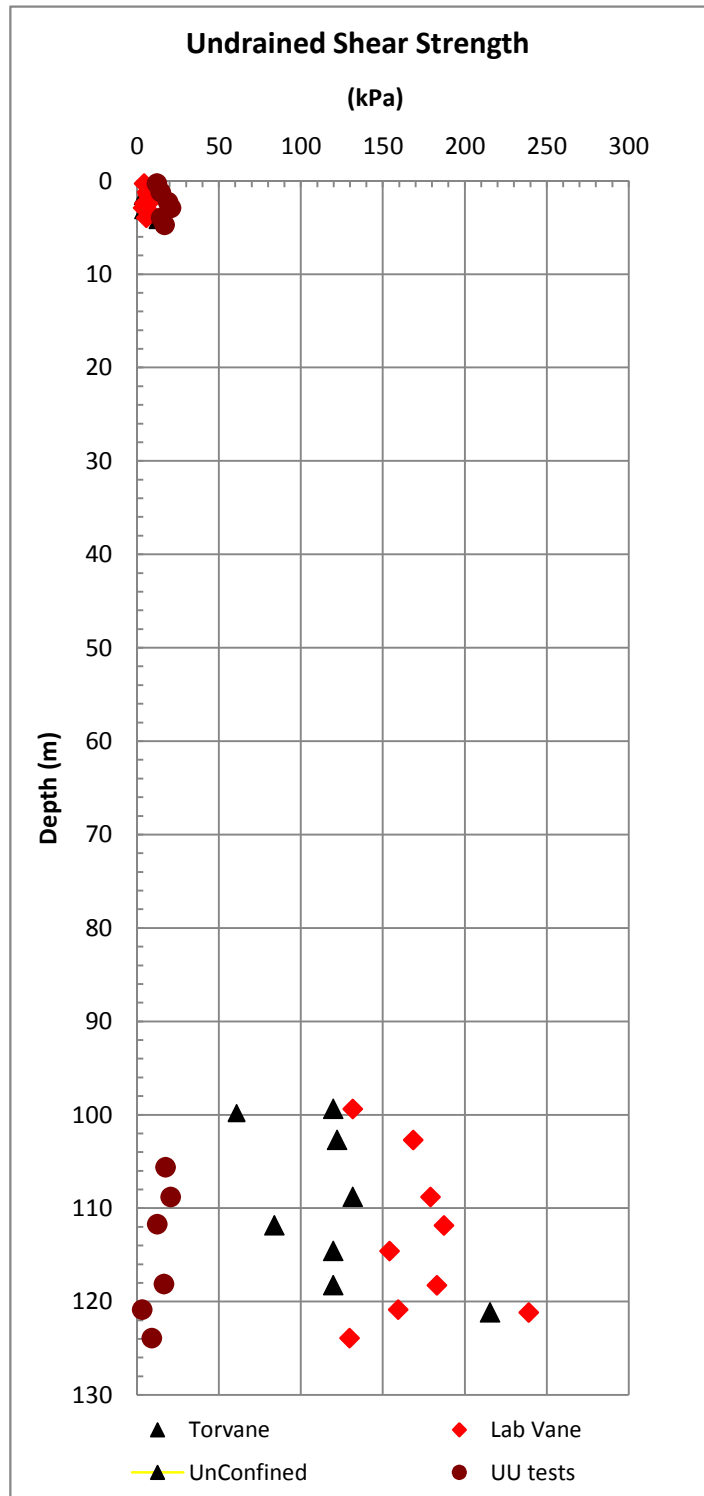
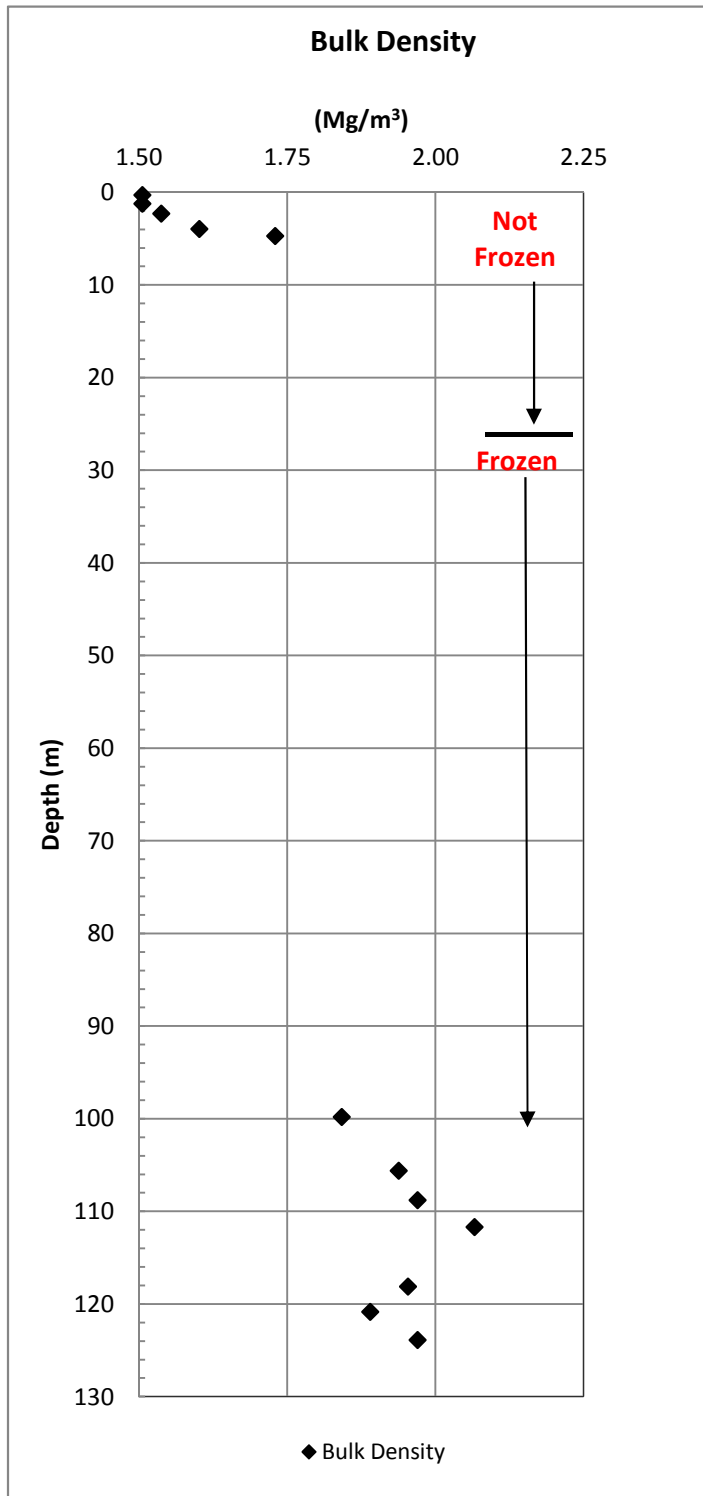
Figure C.3

10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

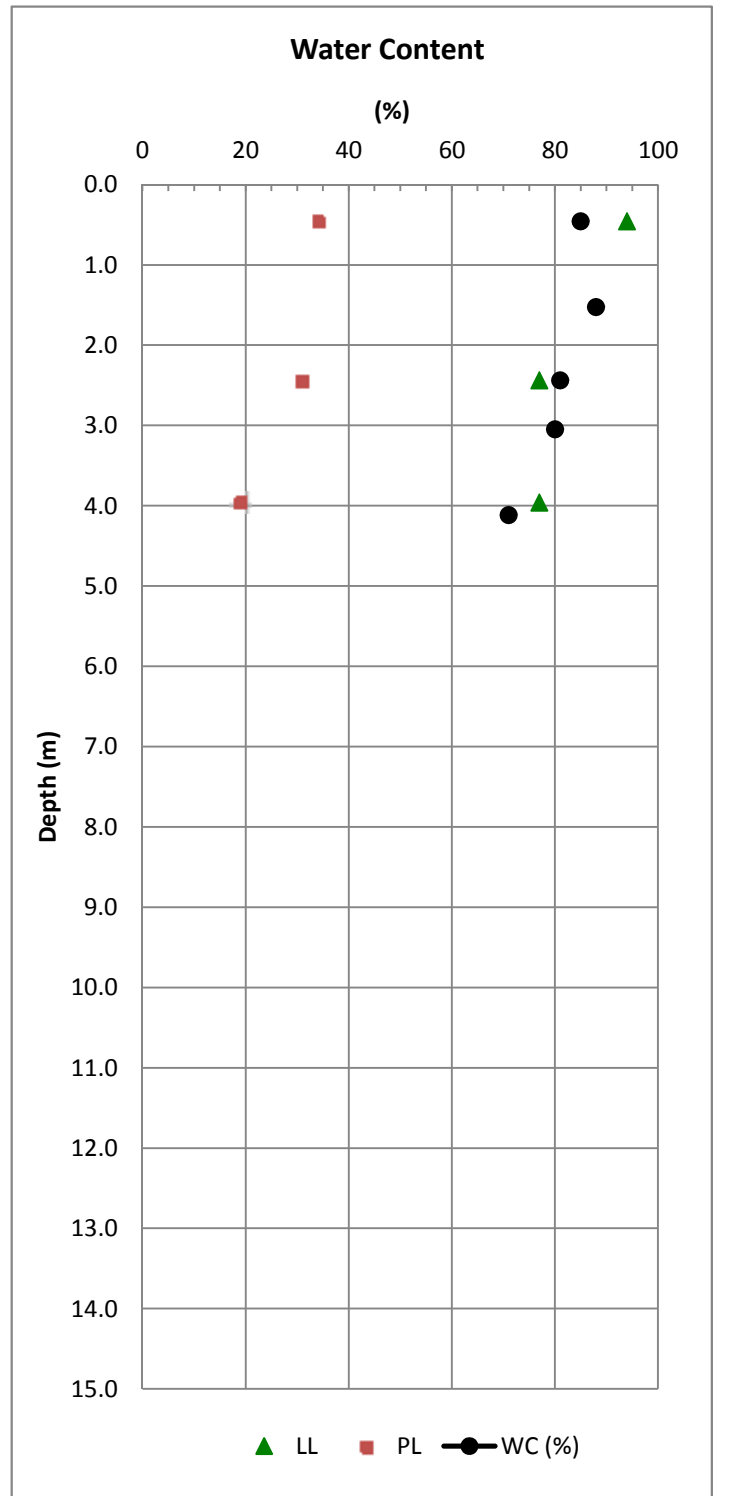
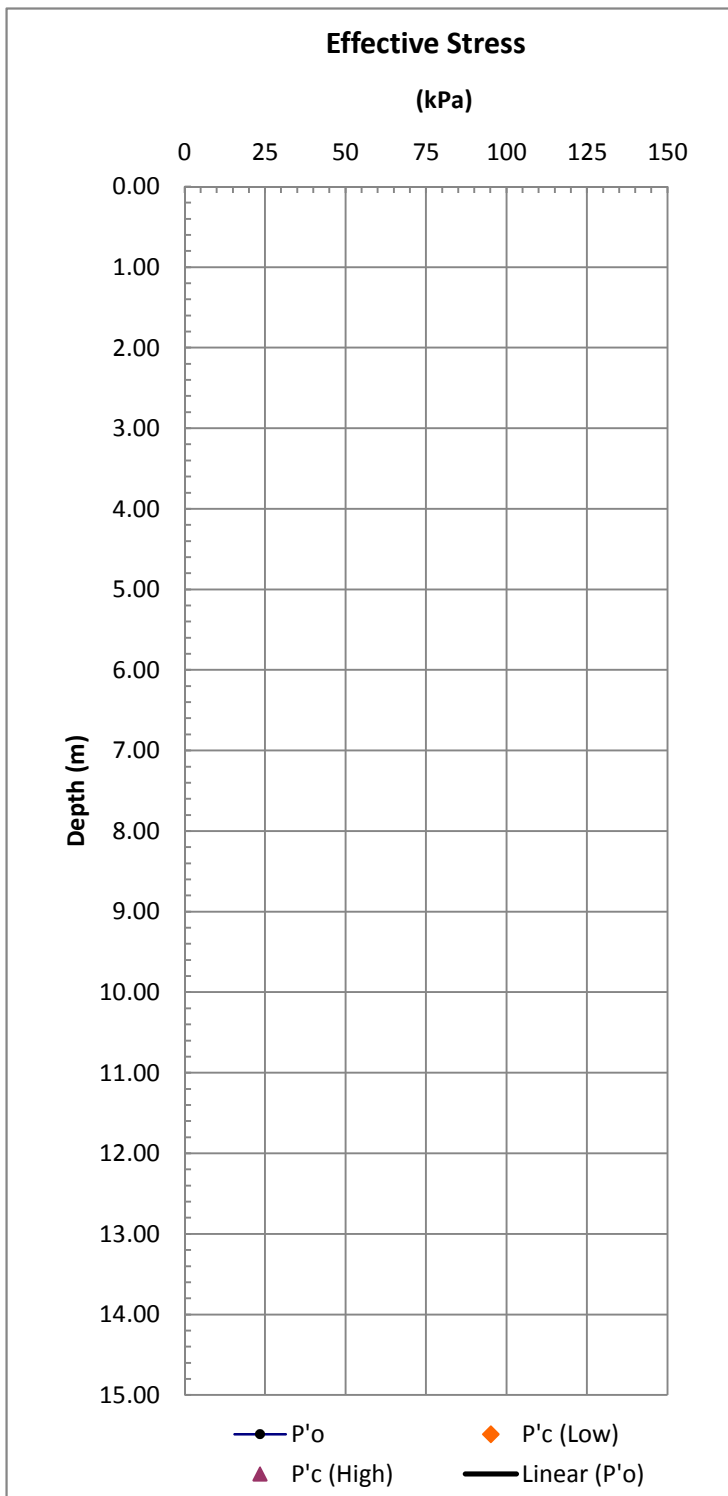
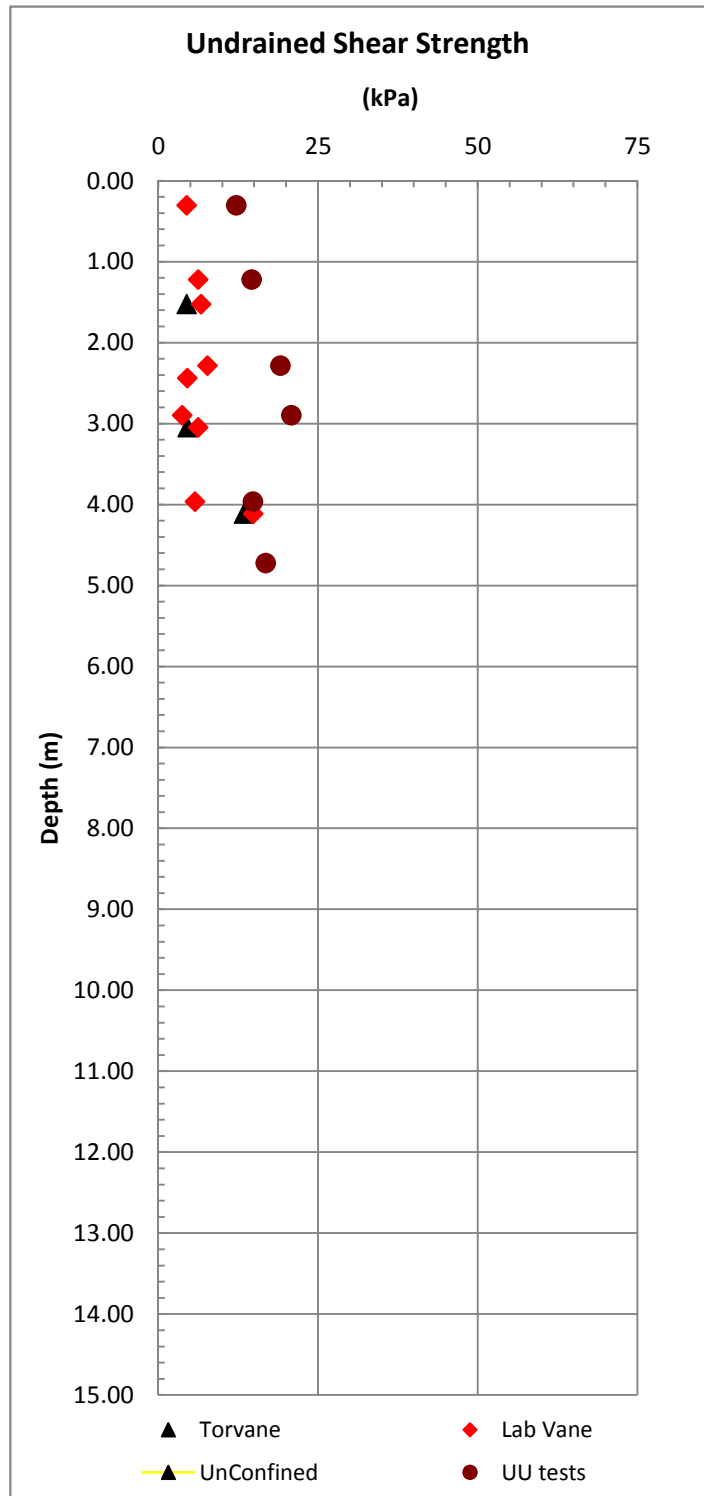
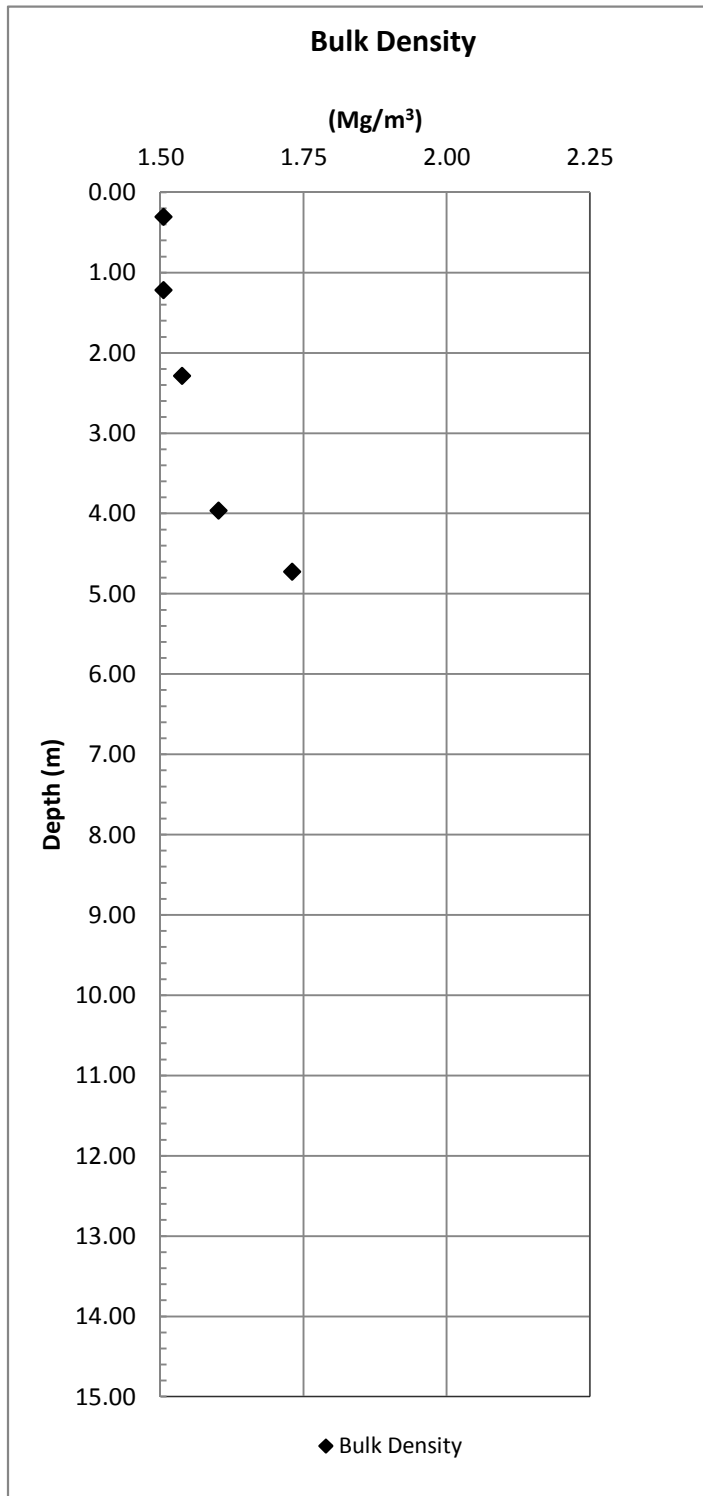


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Kopanoar Boring-3, Boring-1

Figure C.3

10033 Beaufort Data

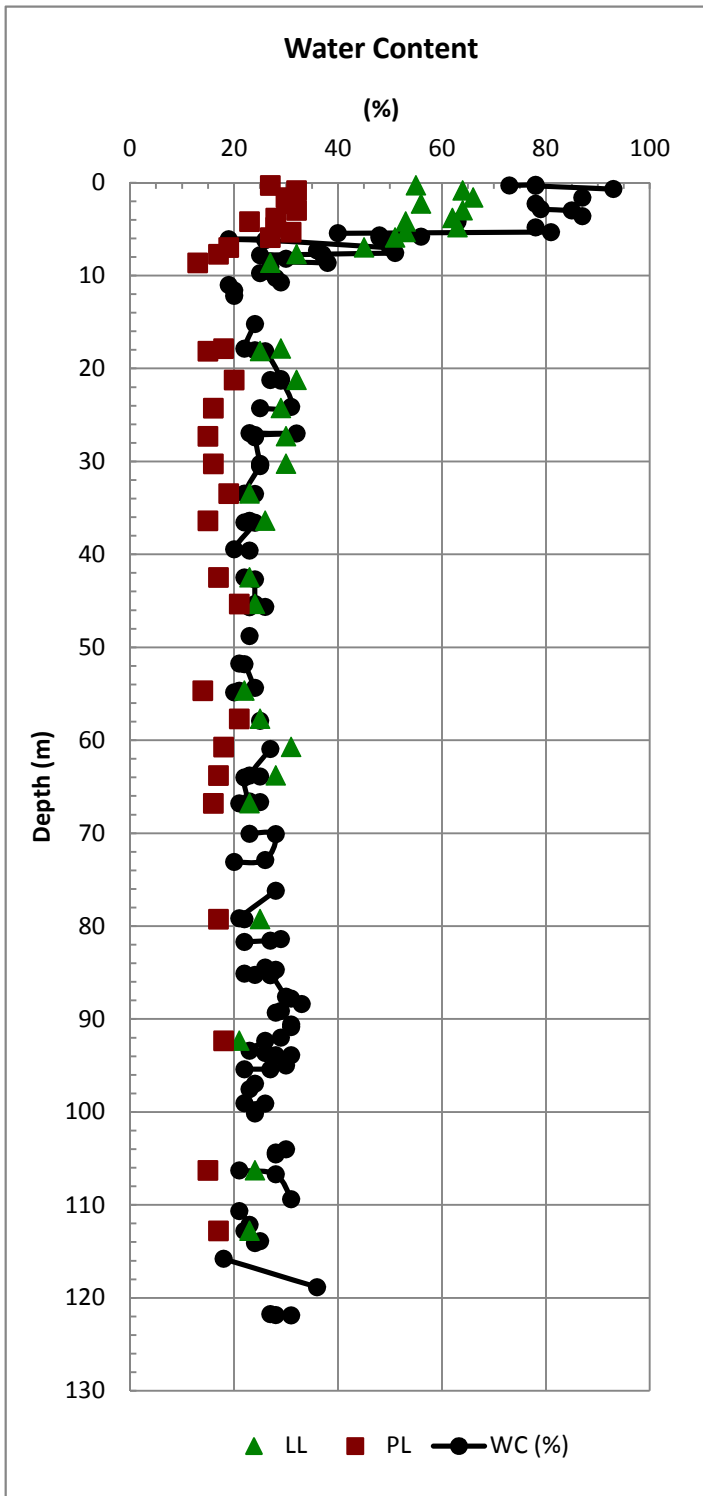
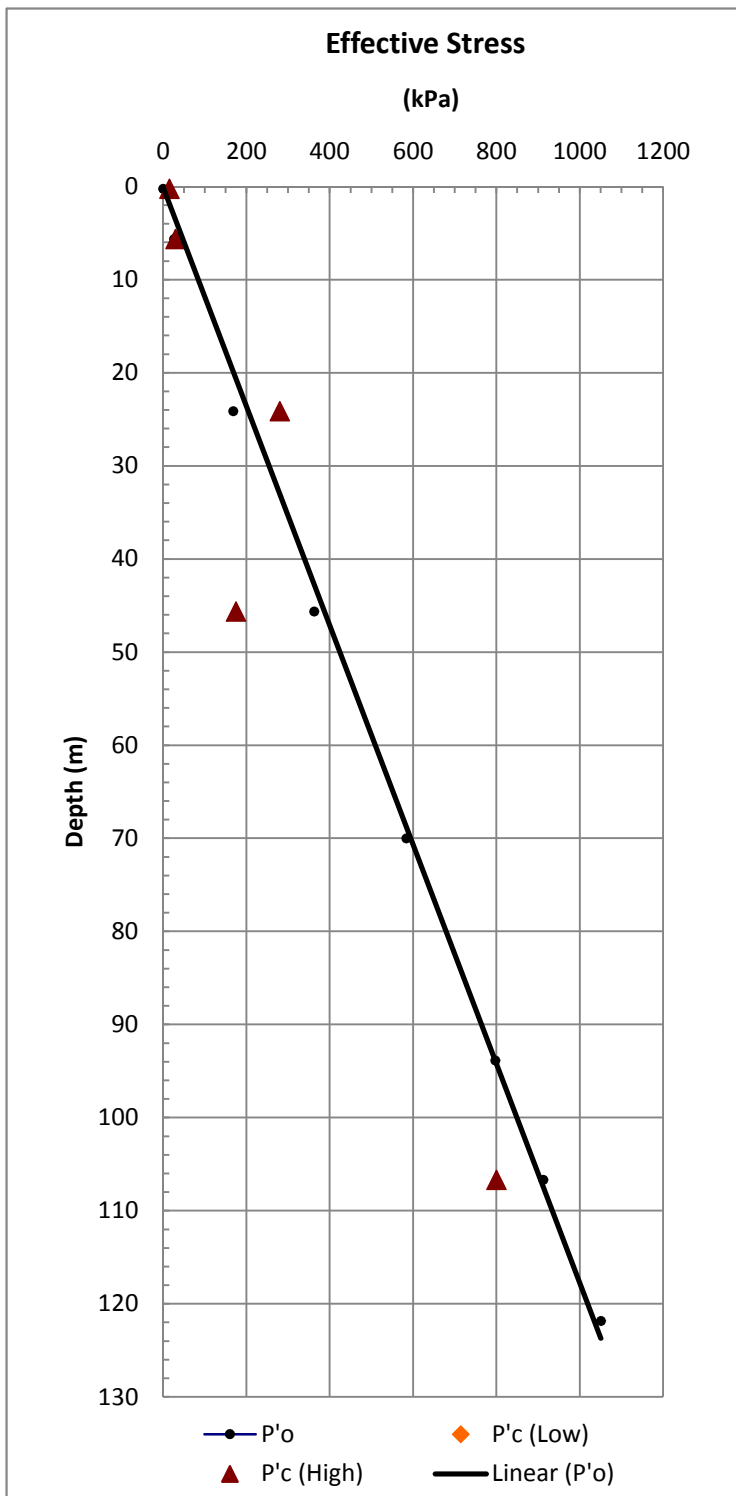
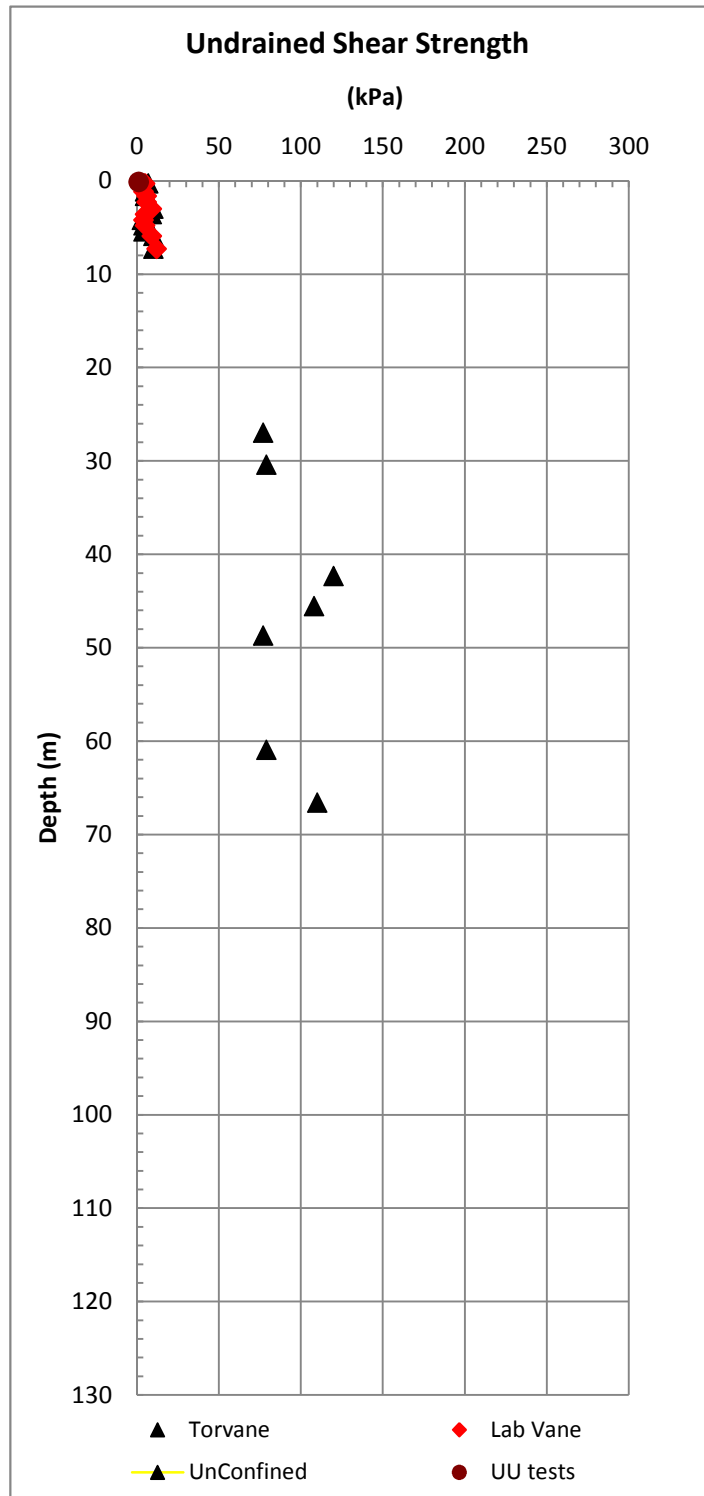
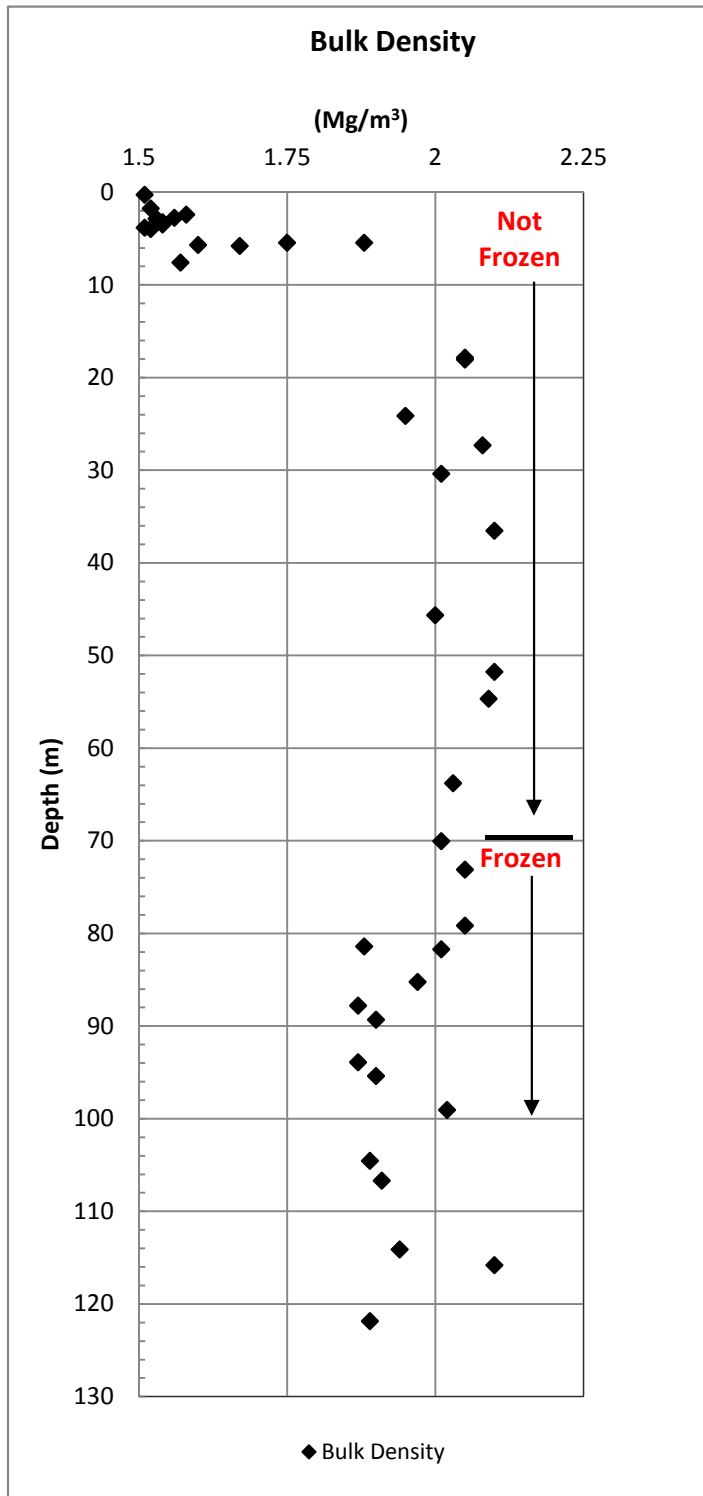


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Figure C.3

10033 Beaufort Data

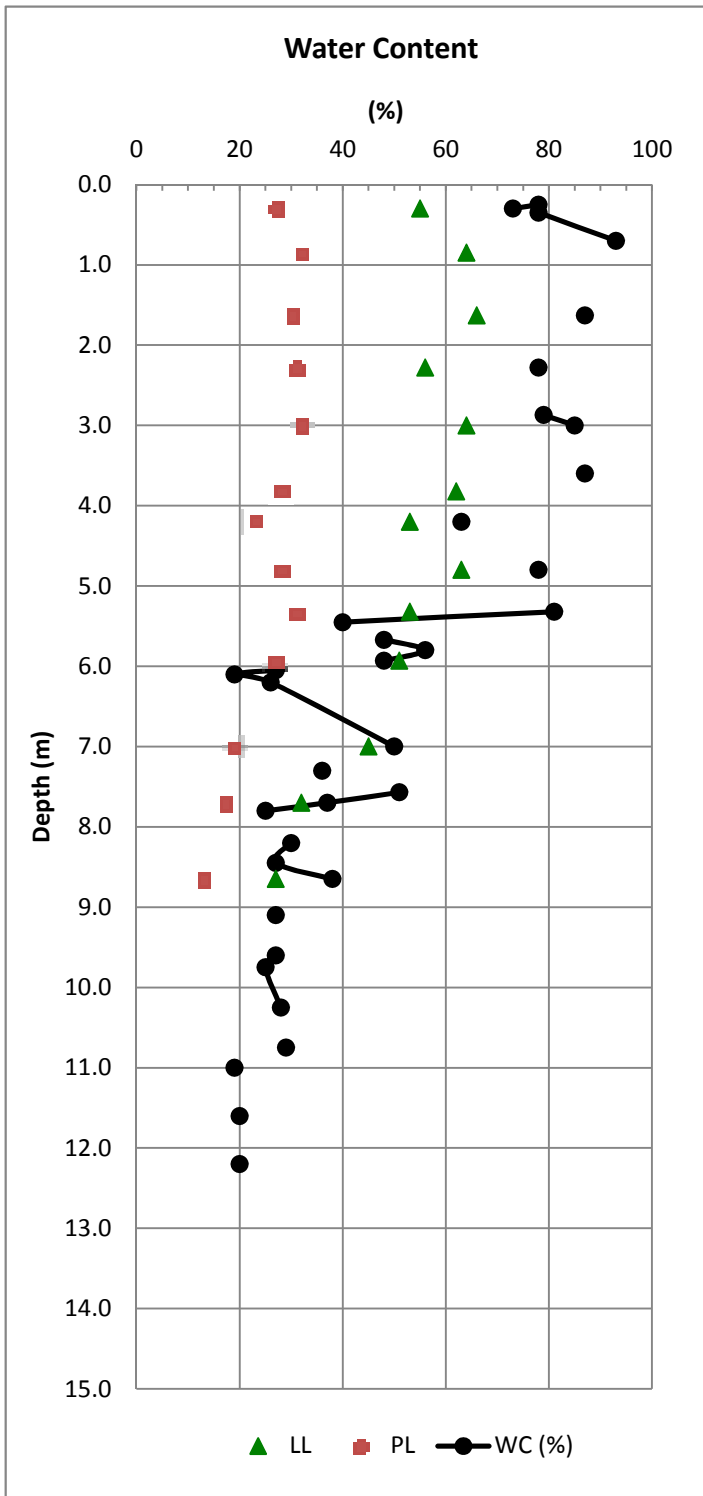
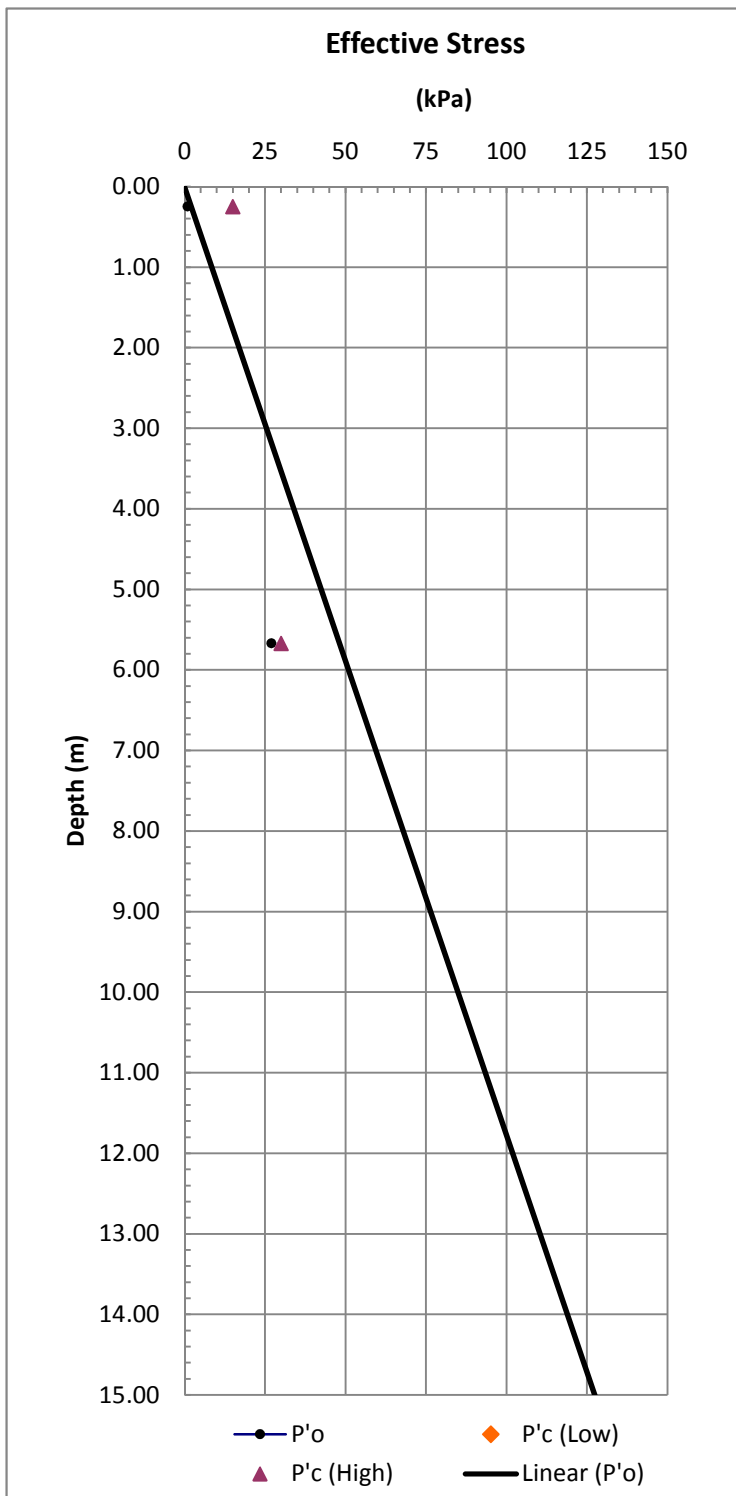
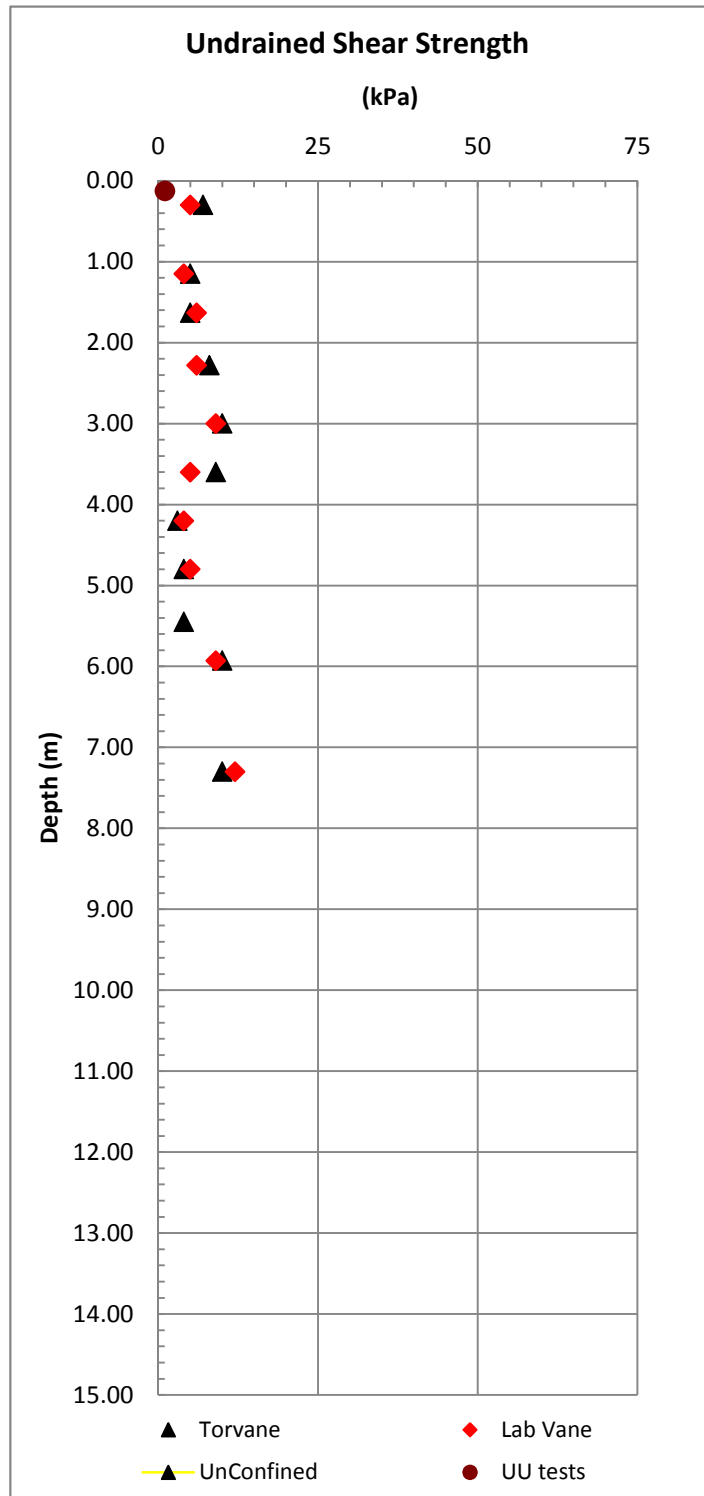
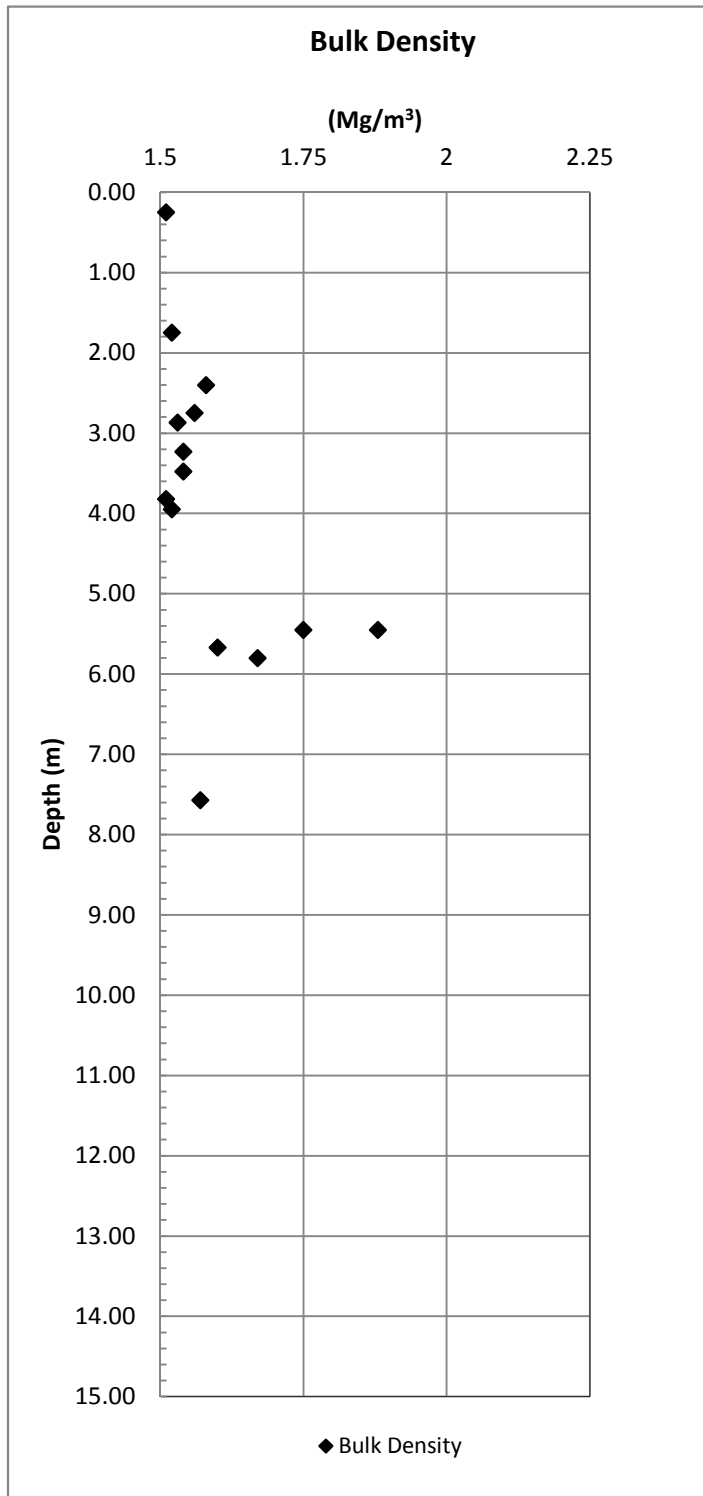


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Kopanoar I-44 Boring 2

Figure C.3

10033 Beaufort Data

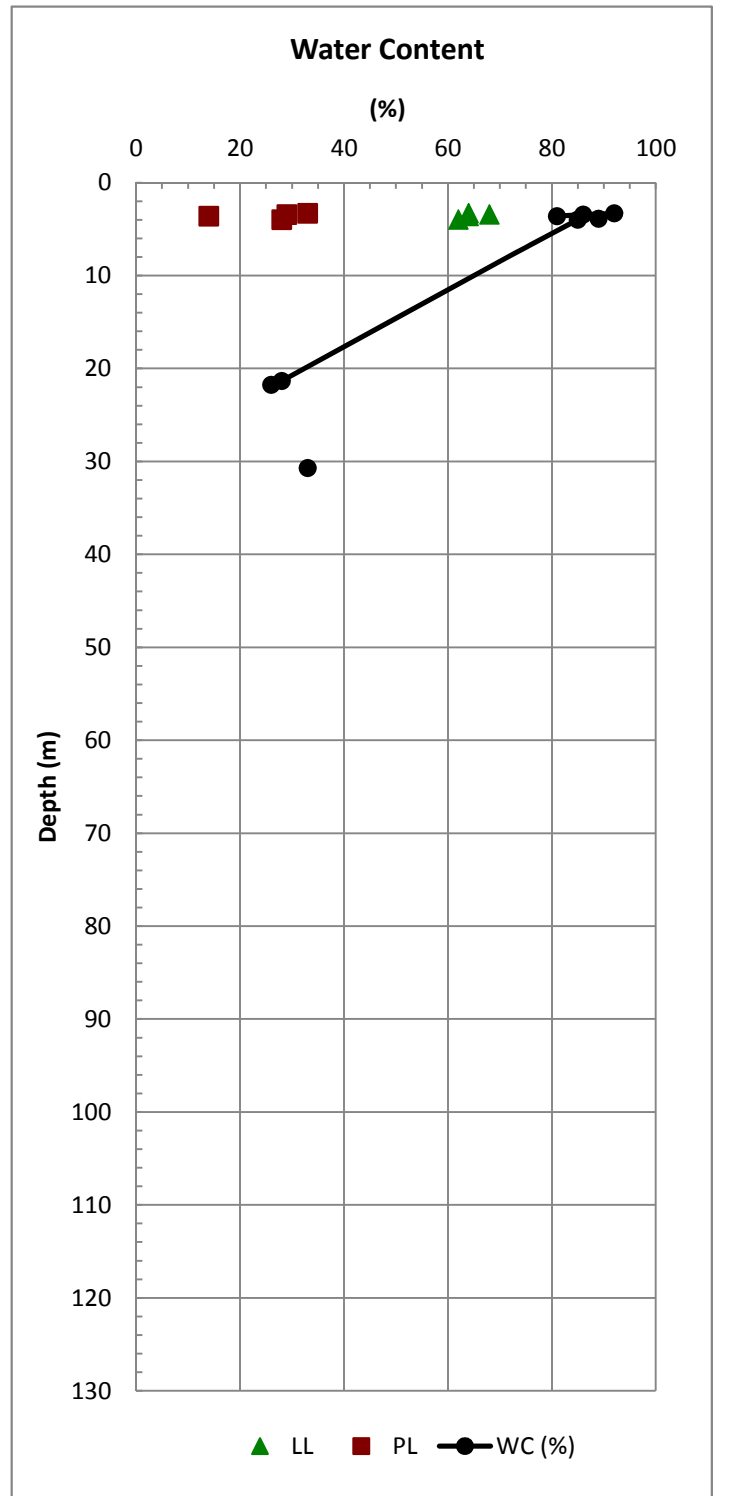
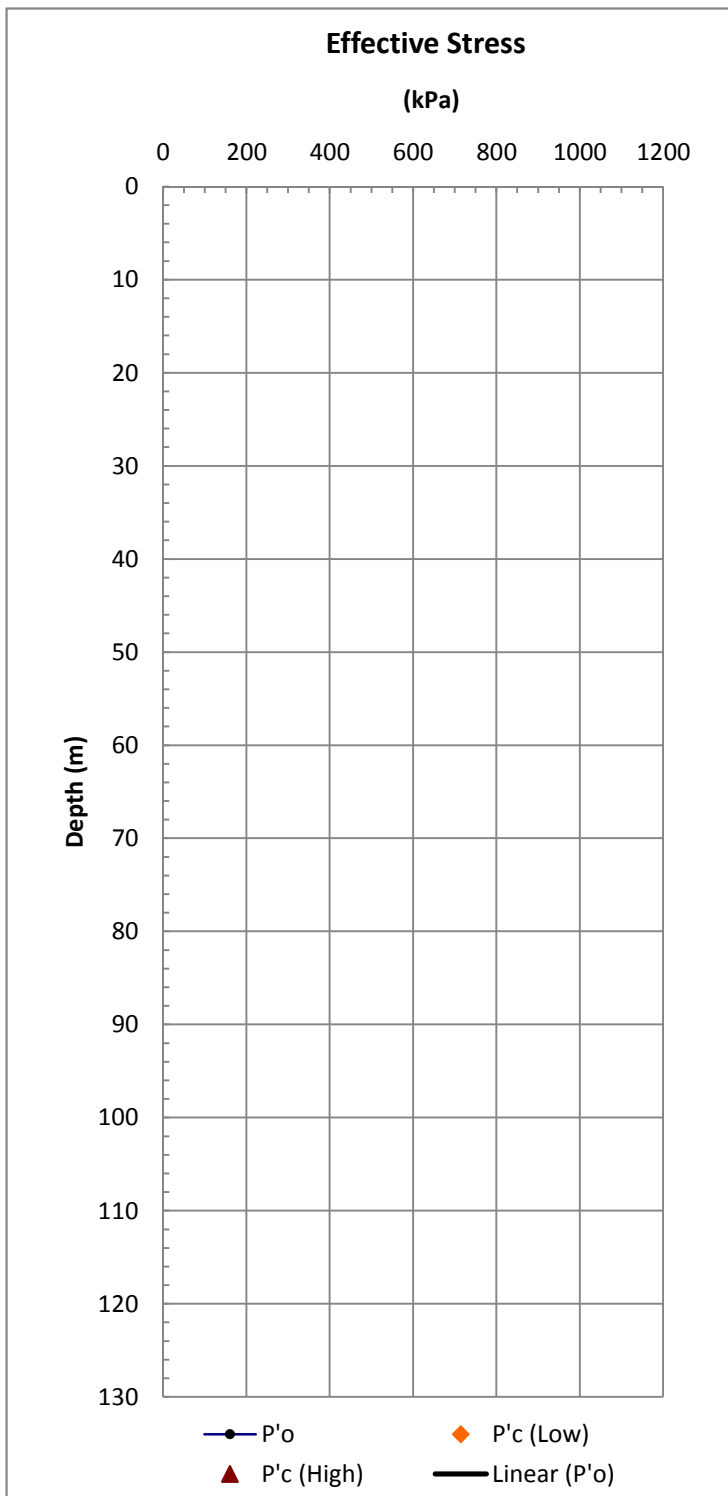
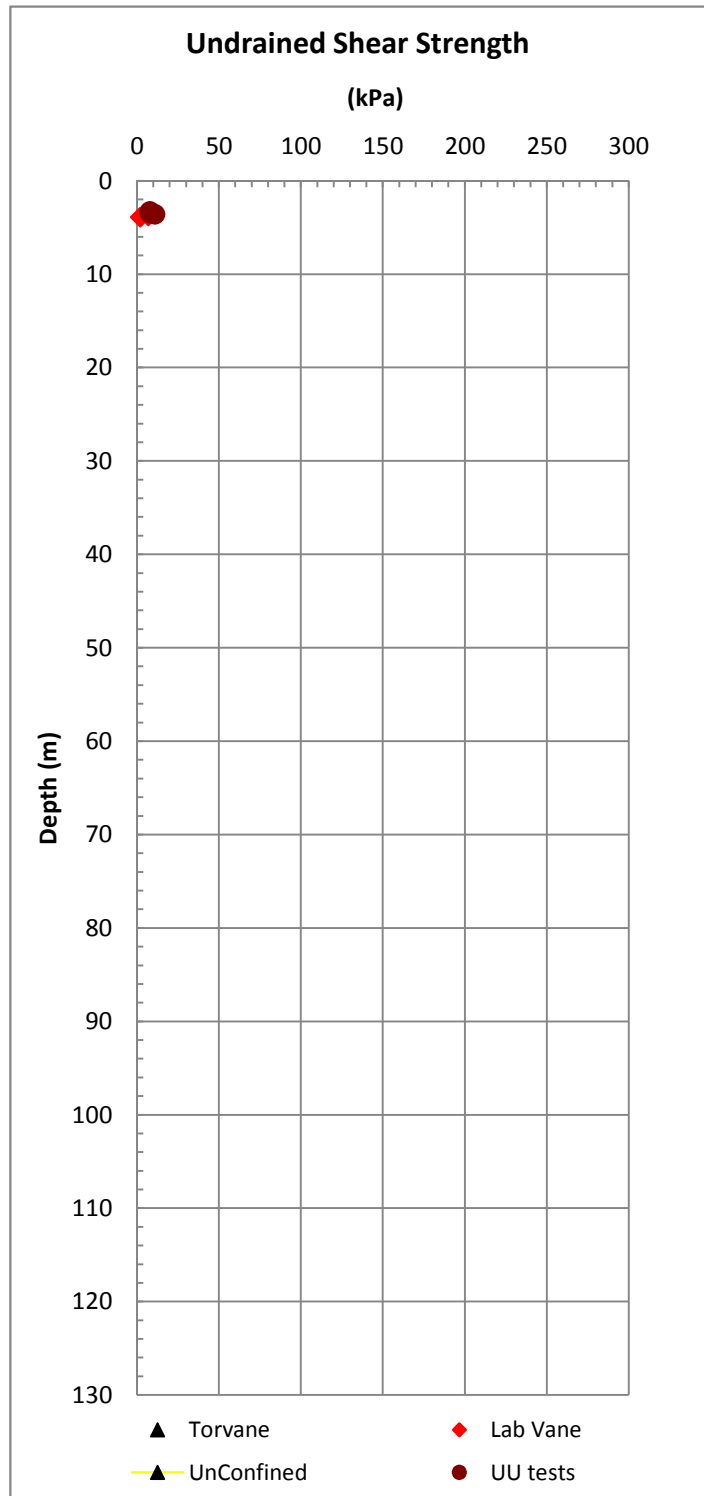
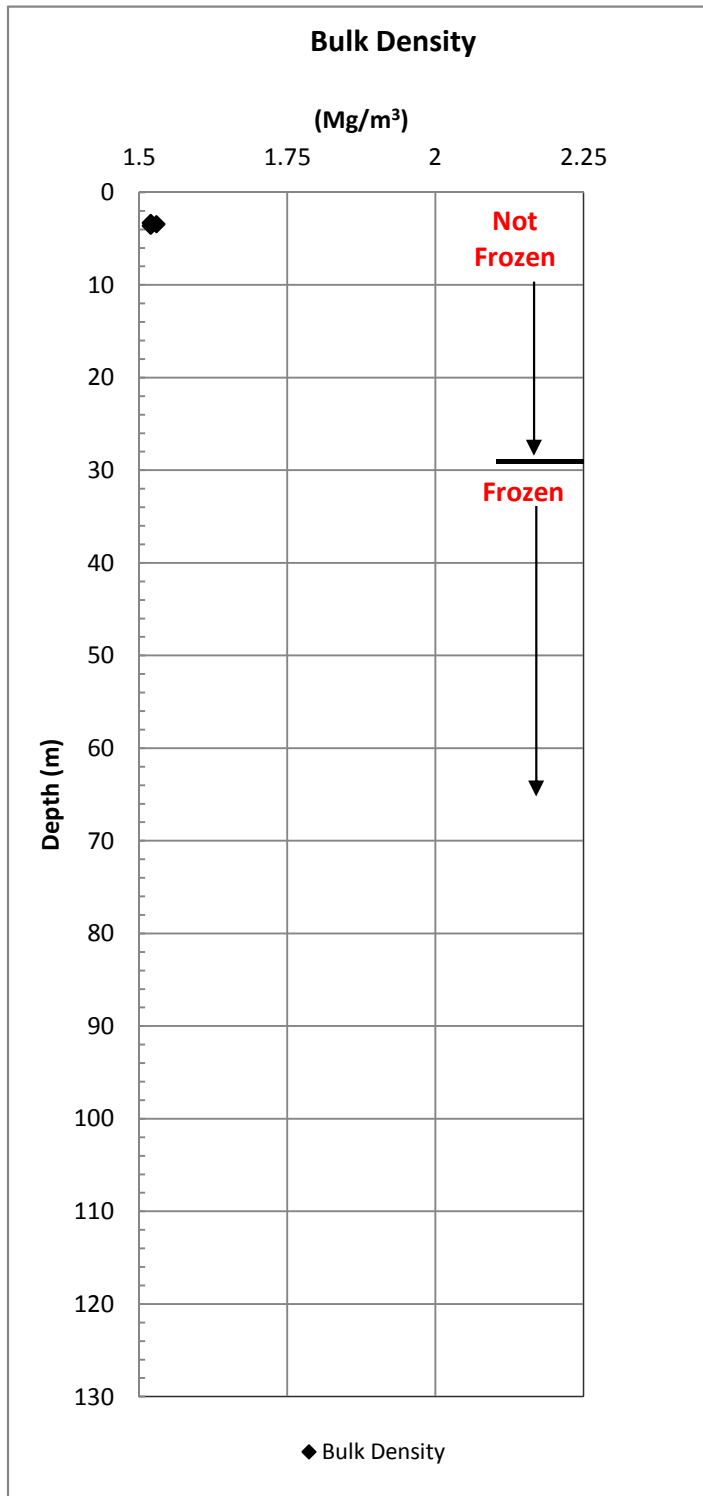


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Kopanoar I-44 Boring 2

Figure C.3

10033 Beaufort Data

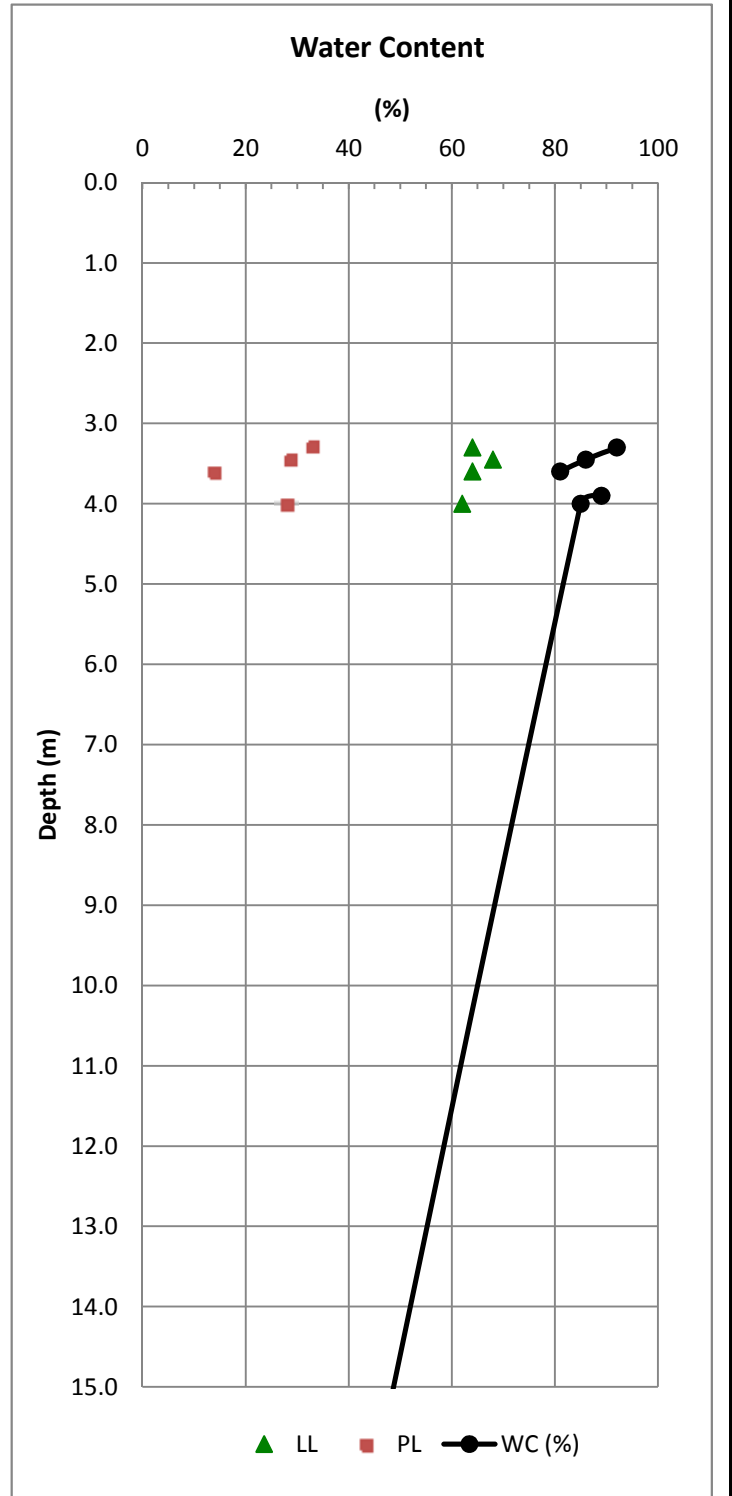
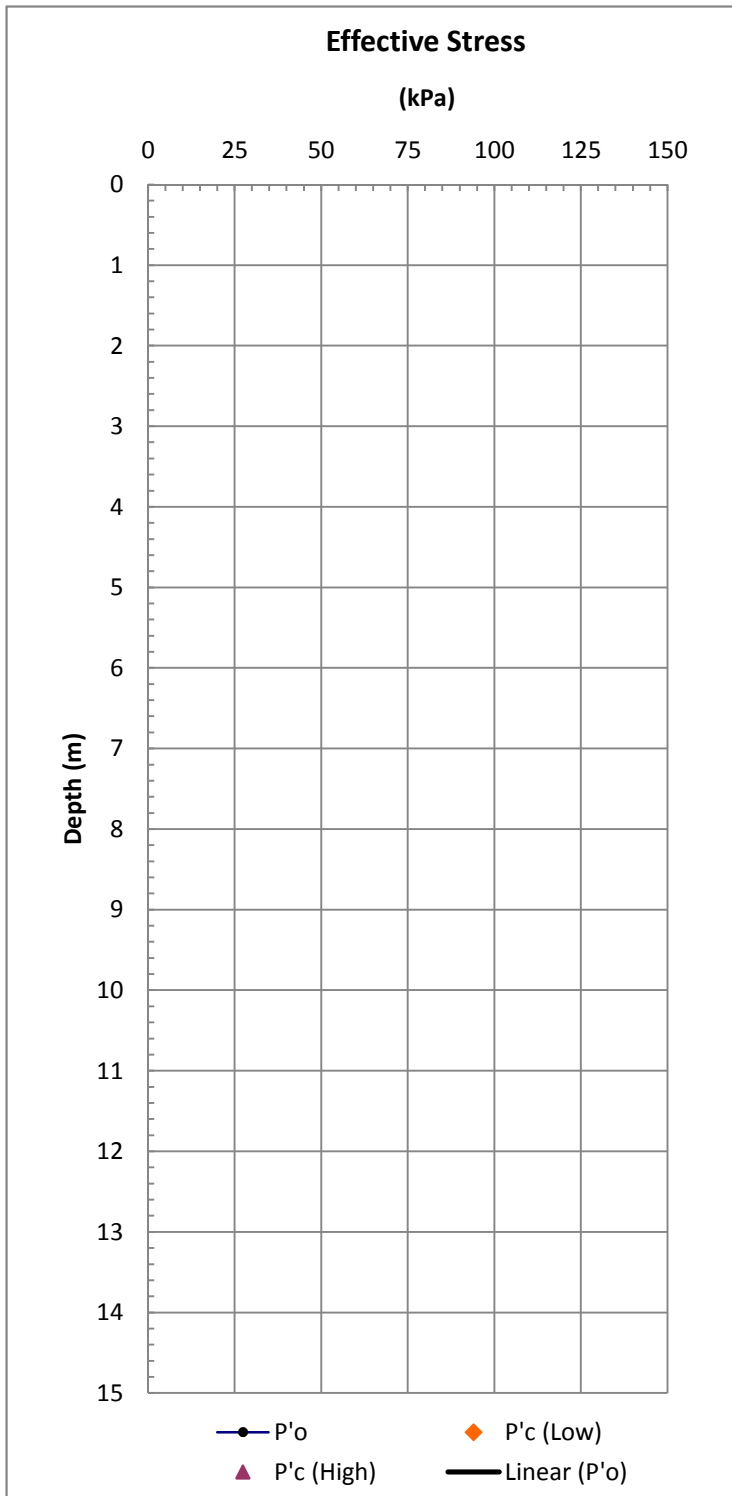
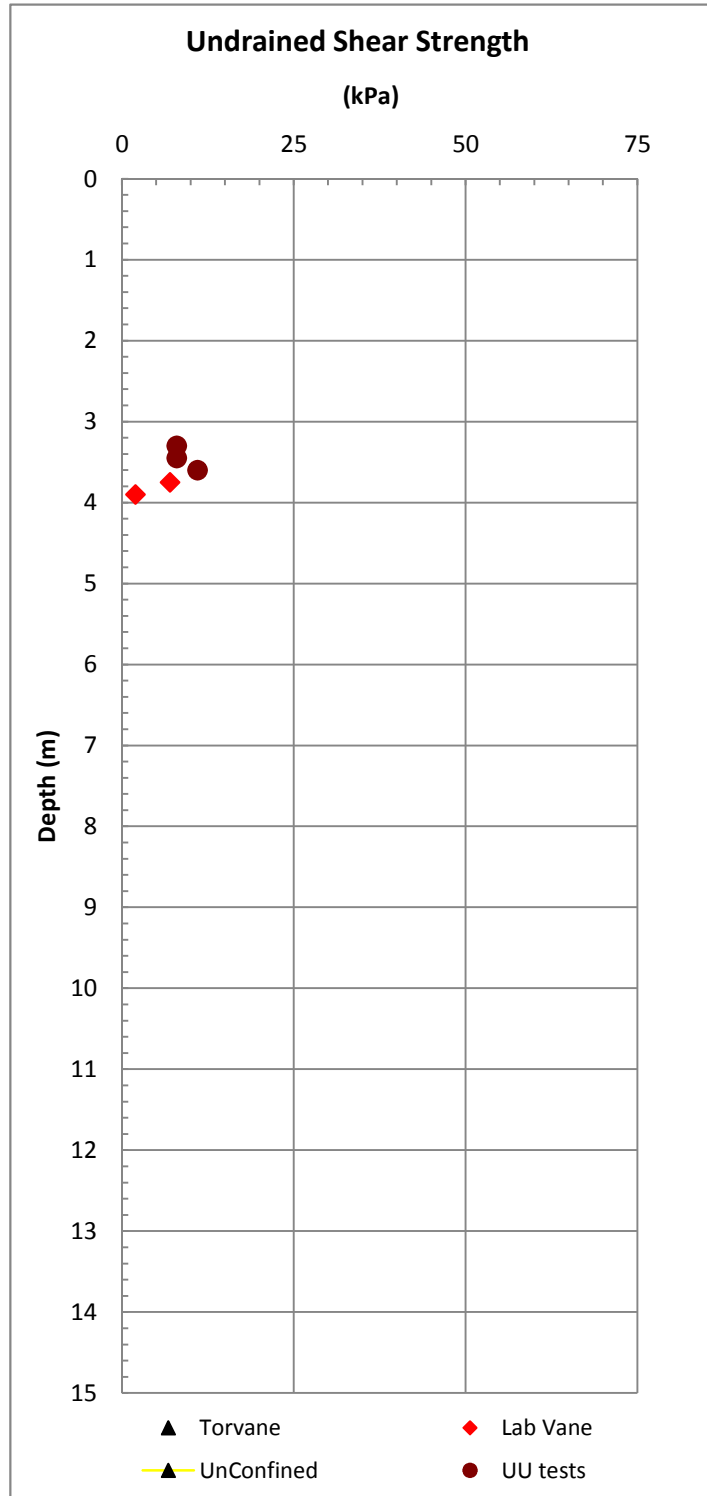
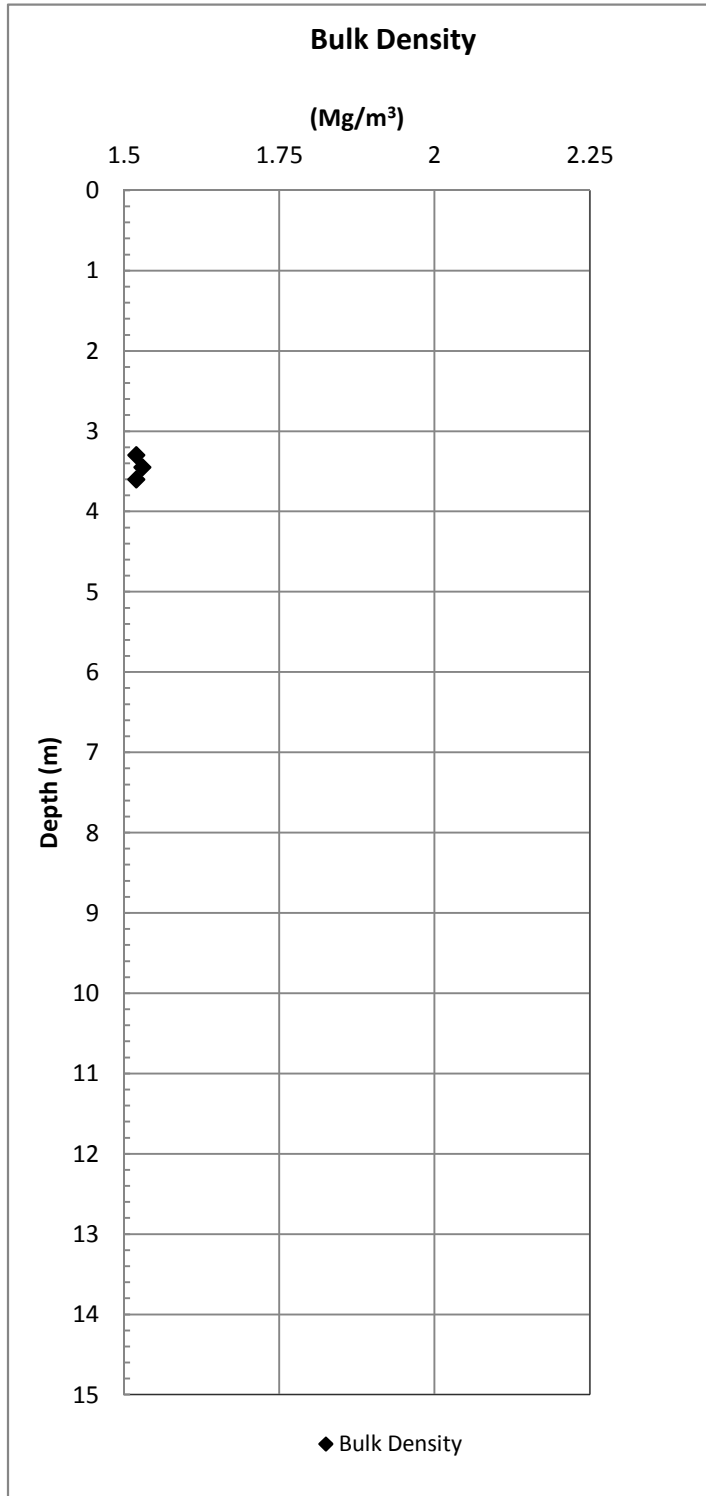


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Kopanoar I-44 B-3

Figure C.3

10033 Beaufort Data

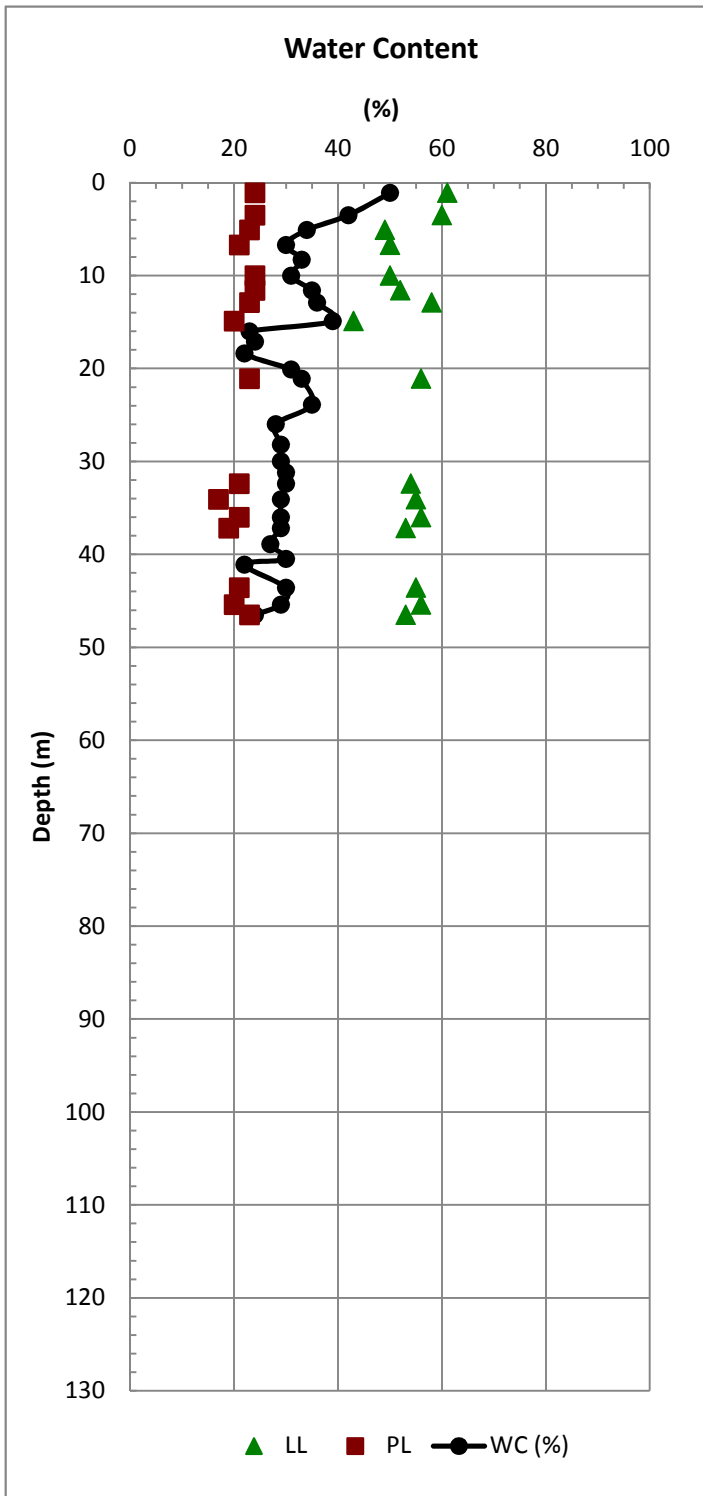
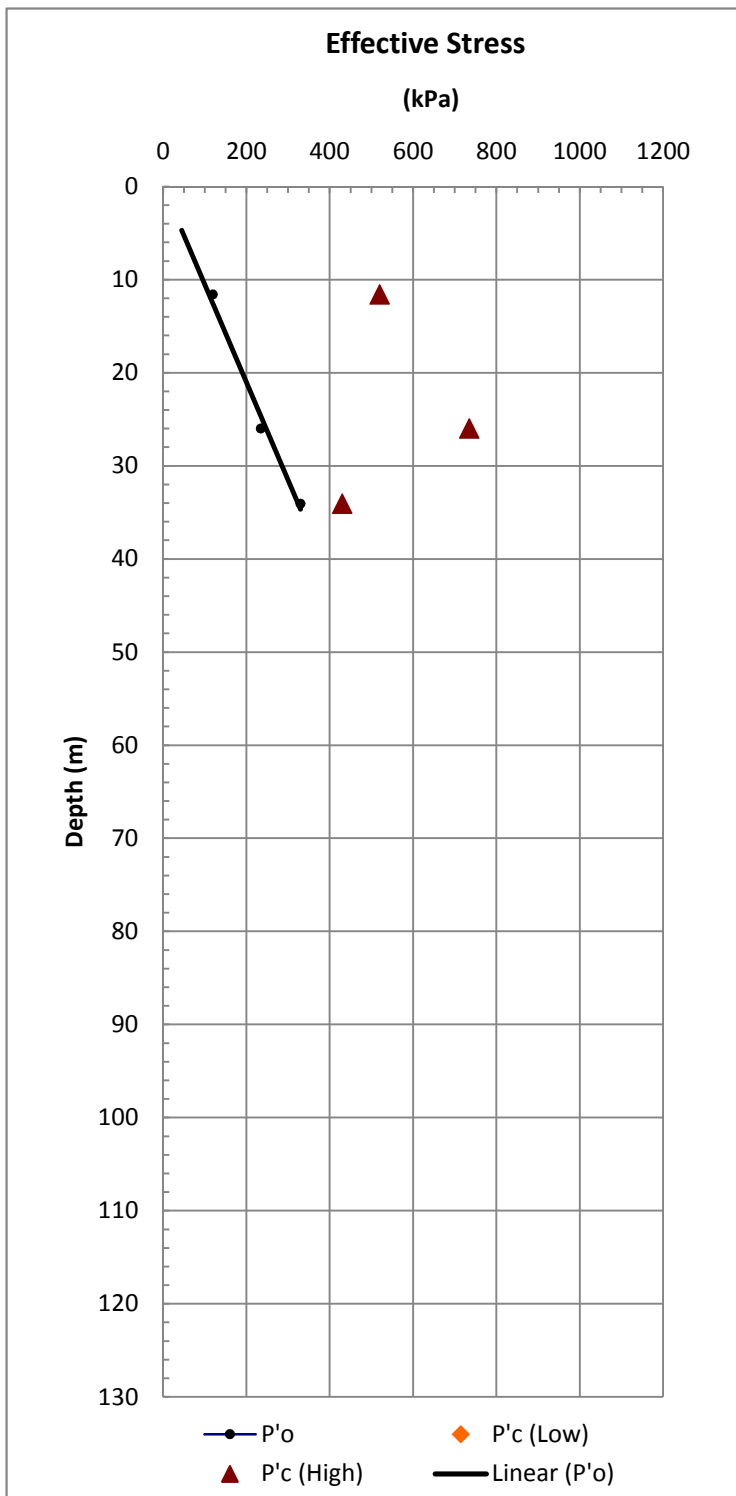
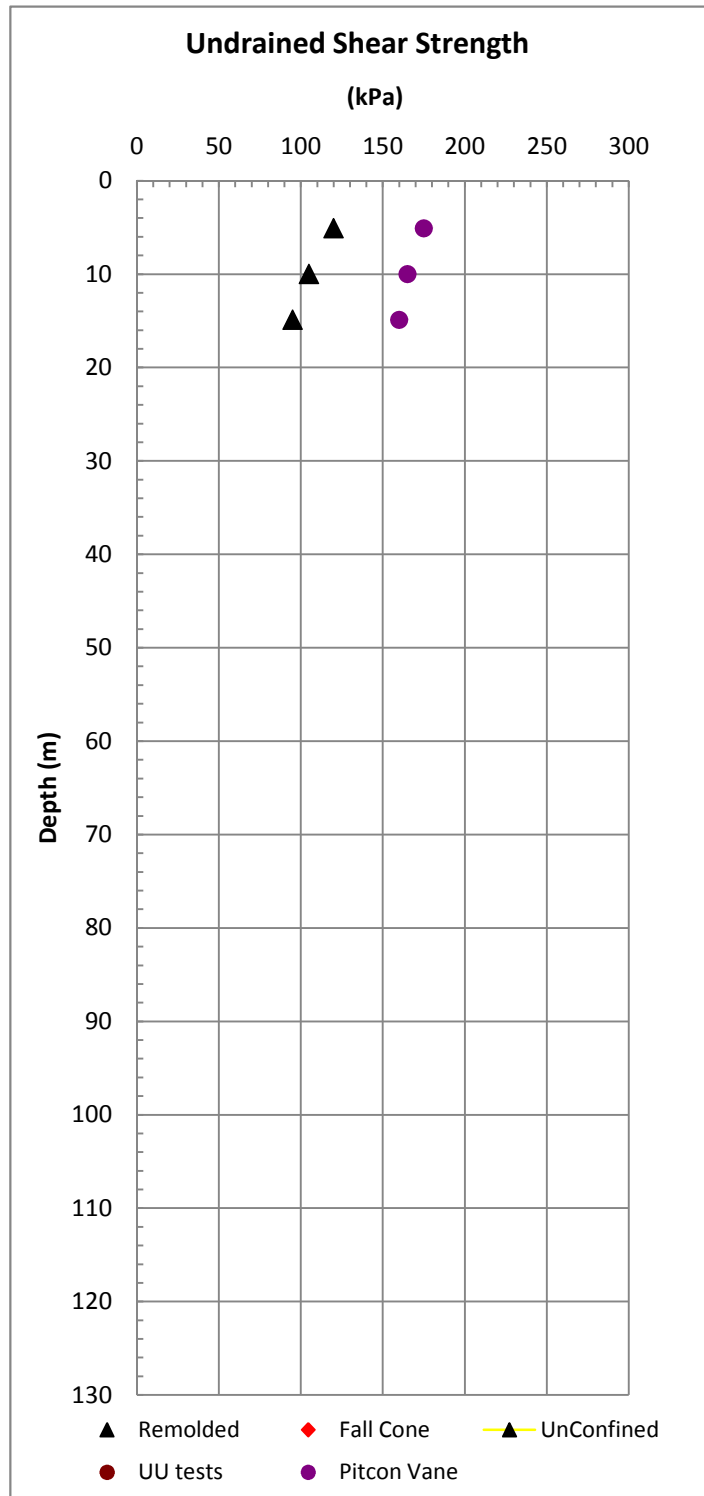
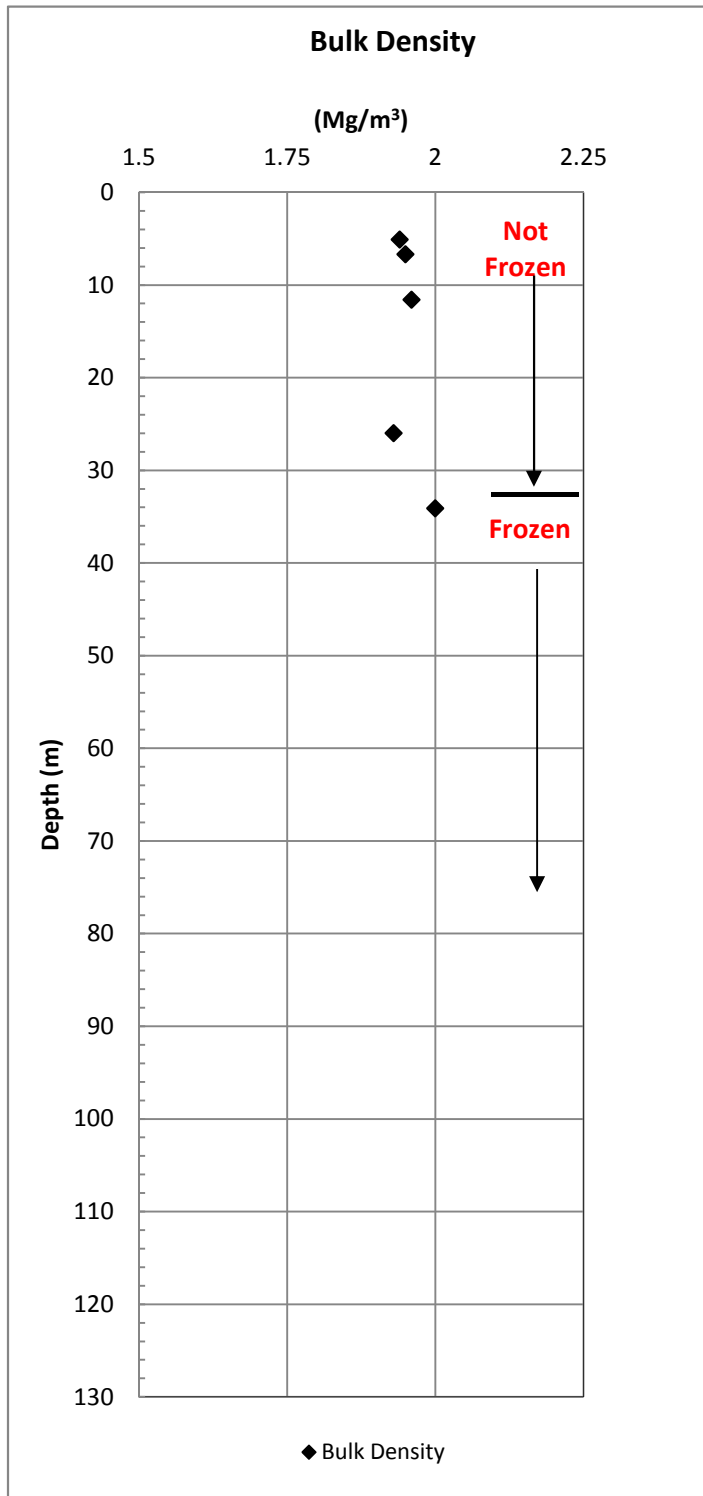


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Kopanoar I-44 Boring 3

Figure C.3

10033 Beaufort Data

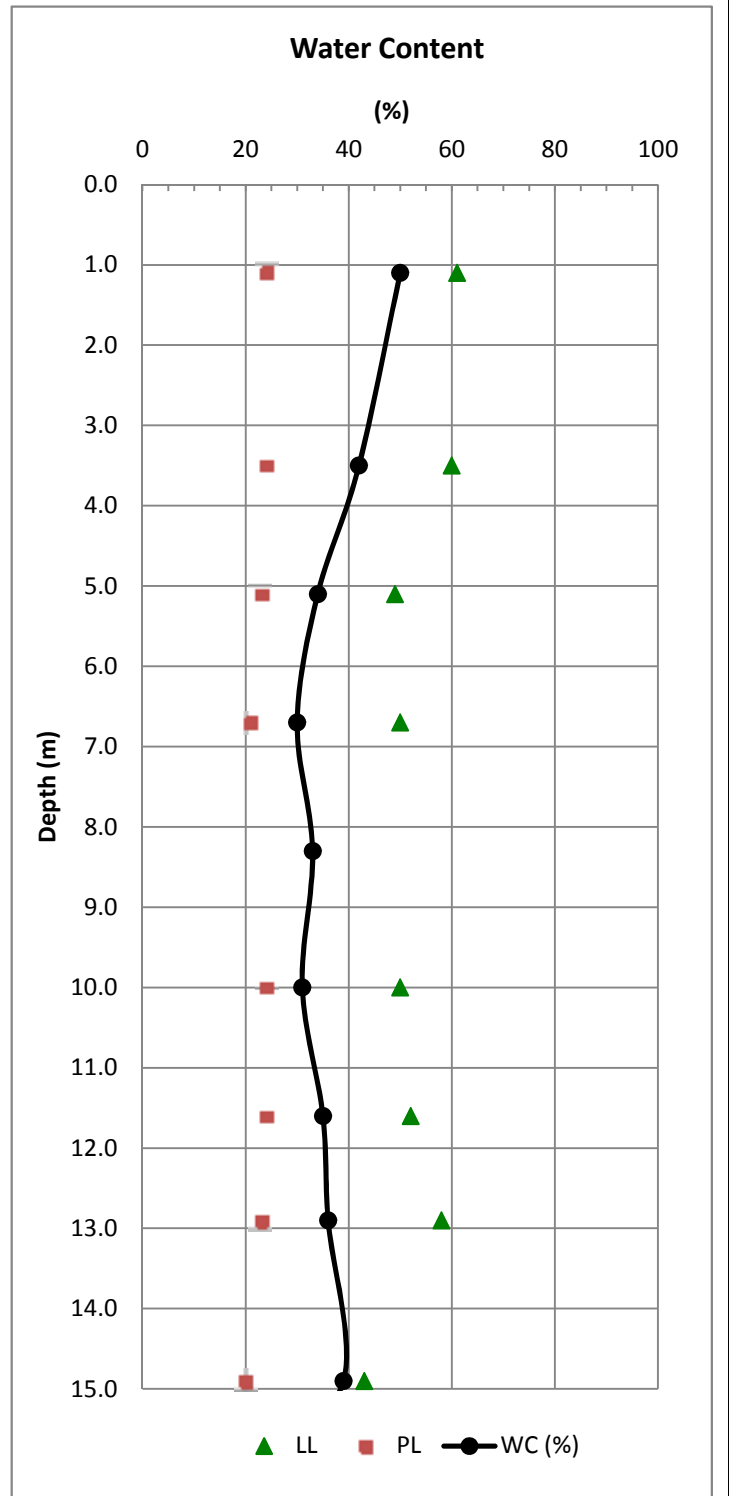
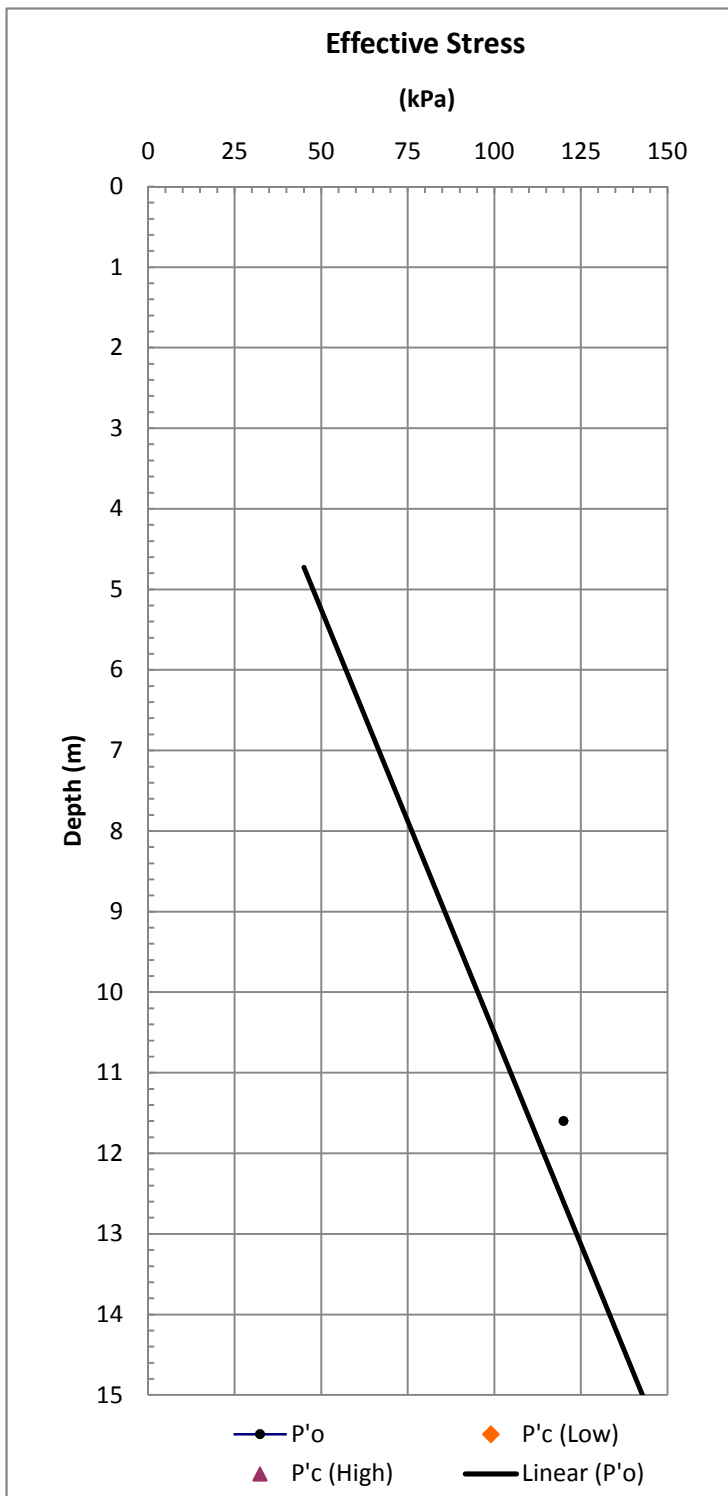
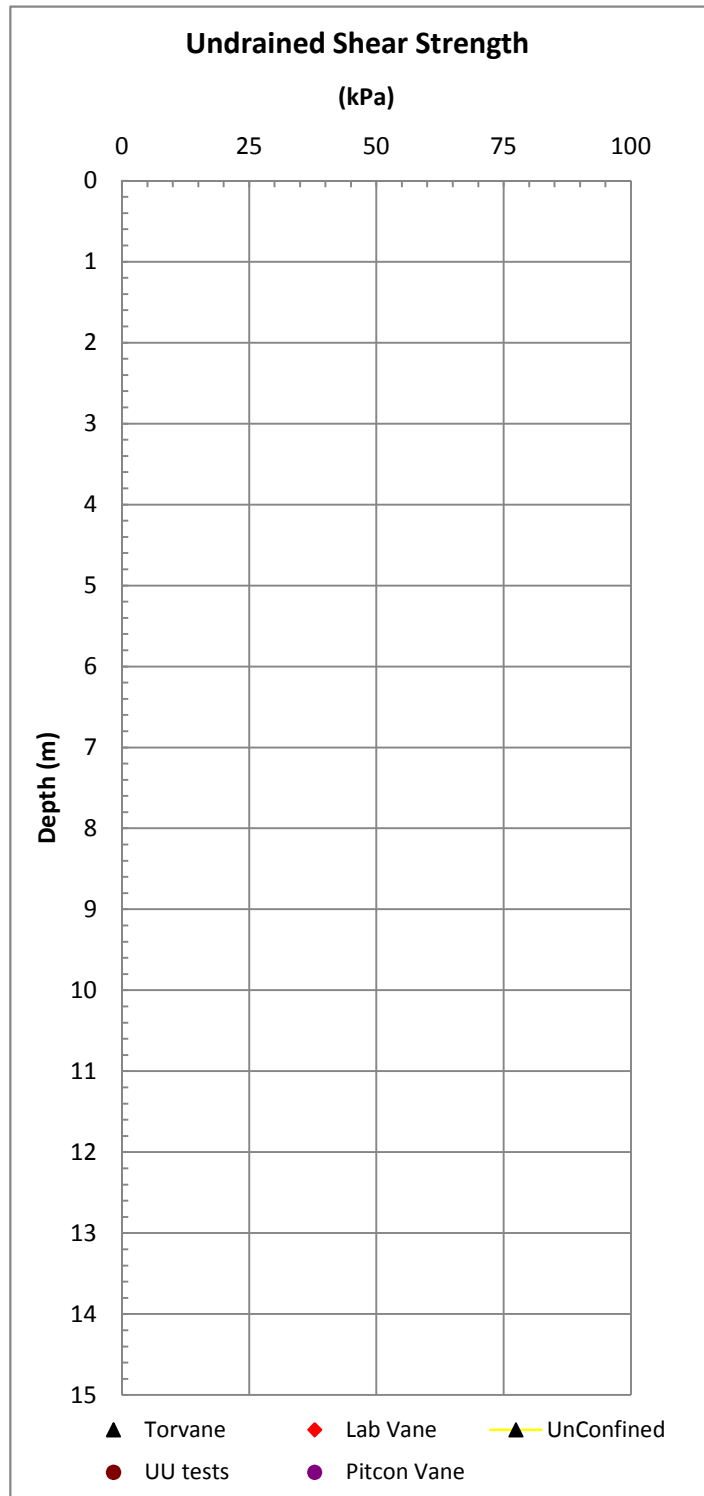
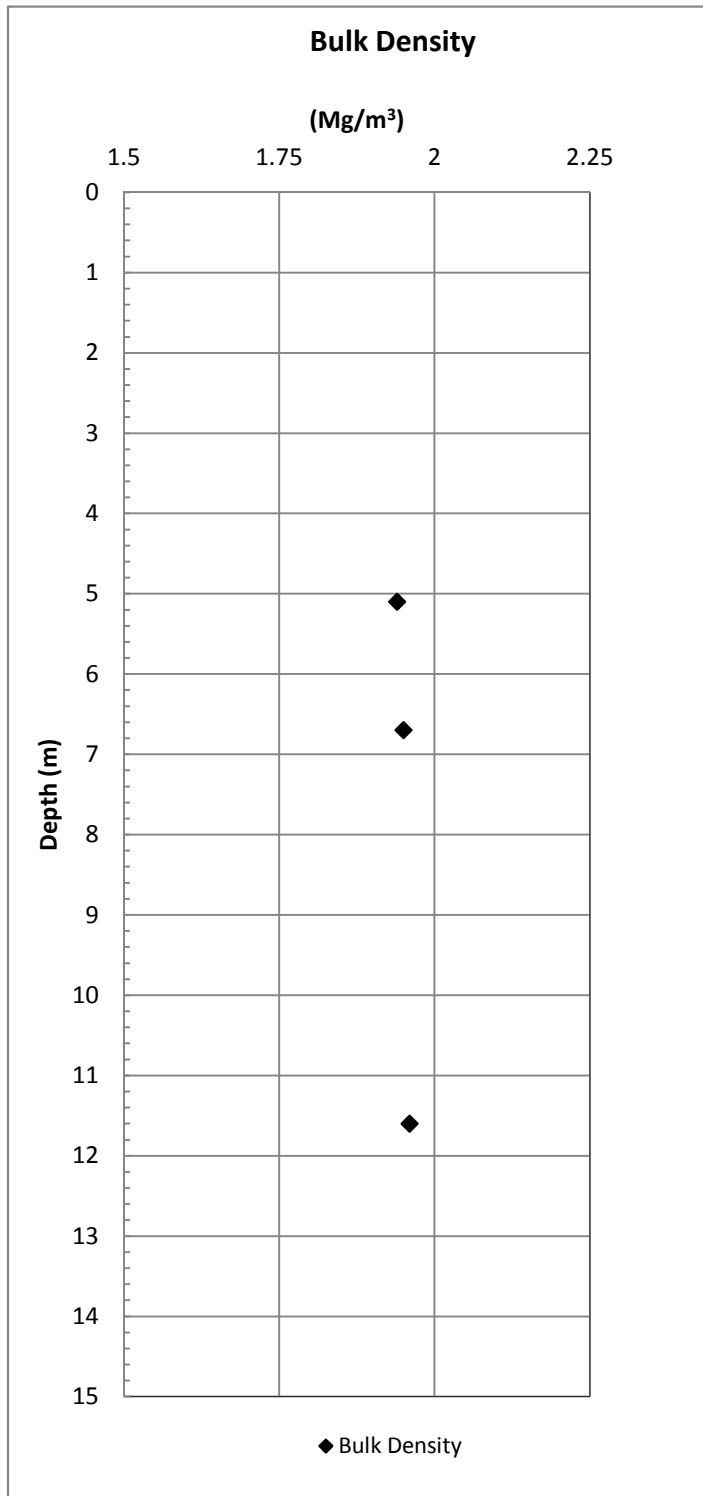


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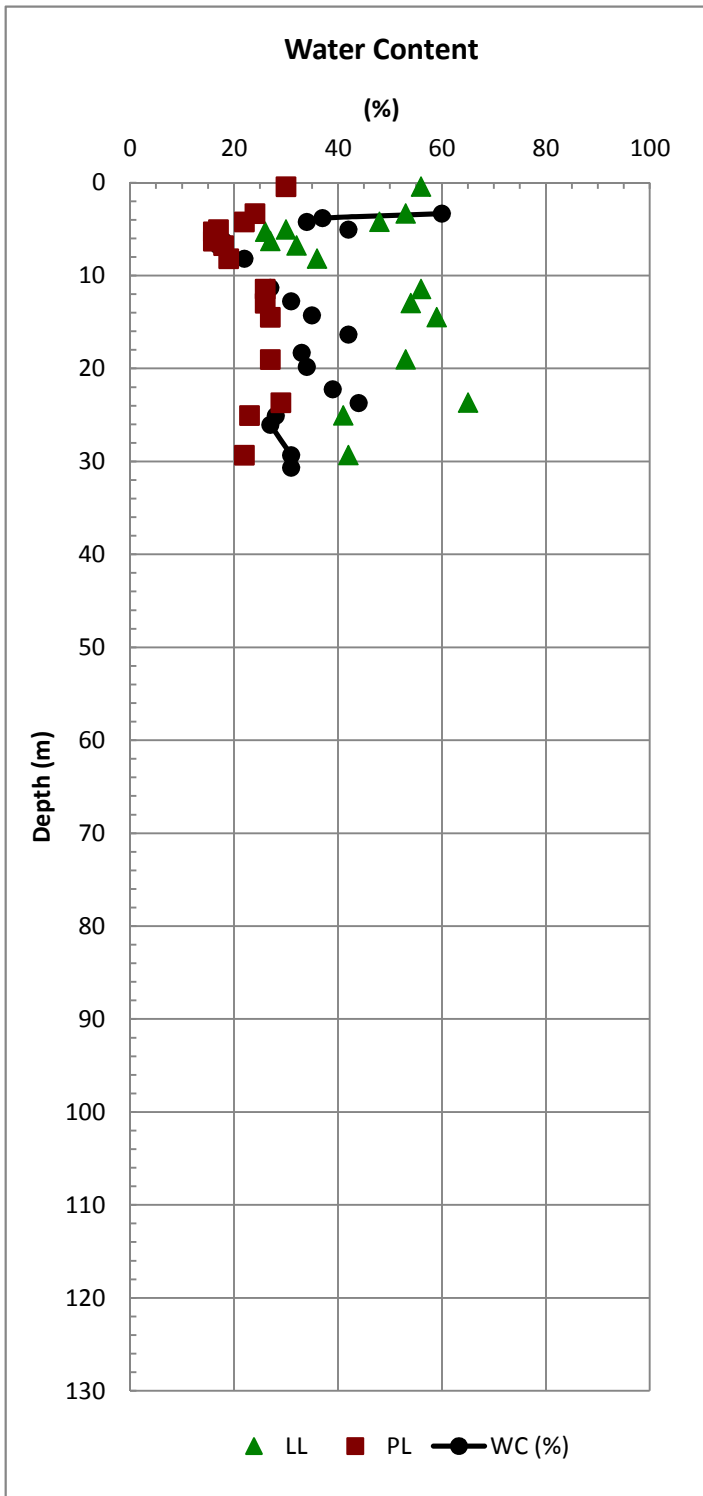
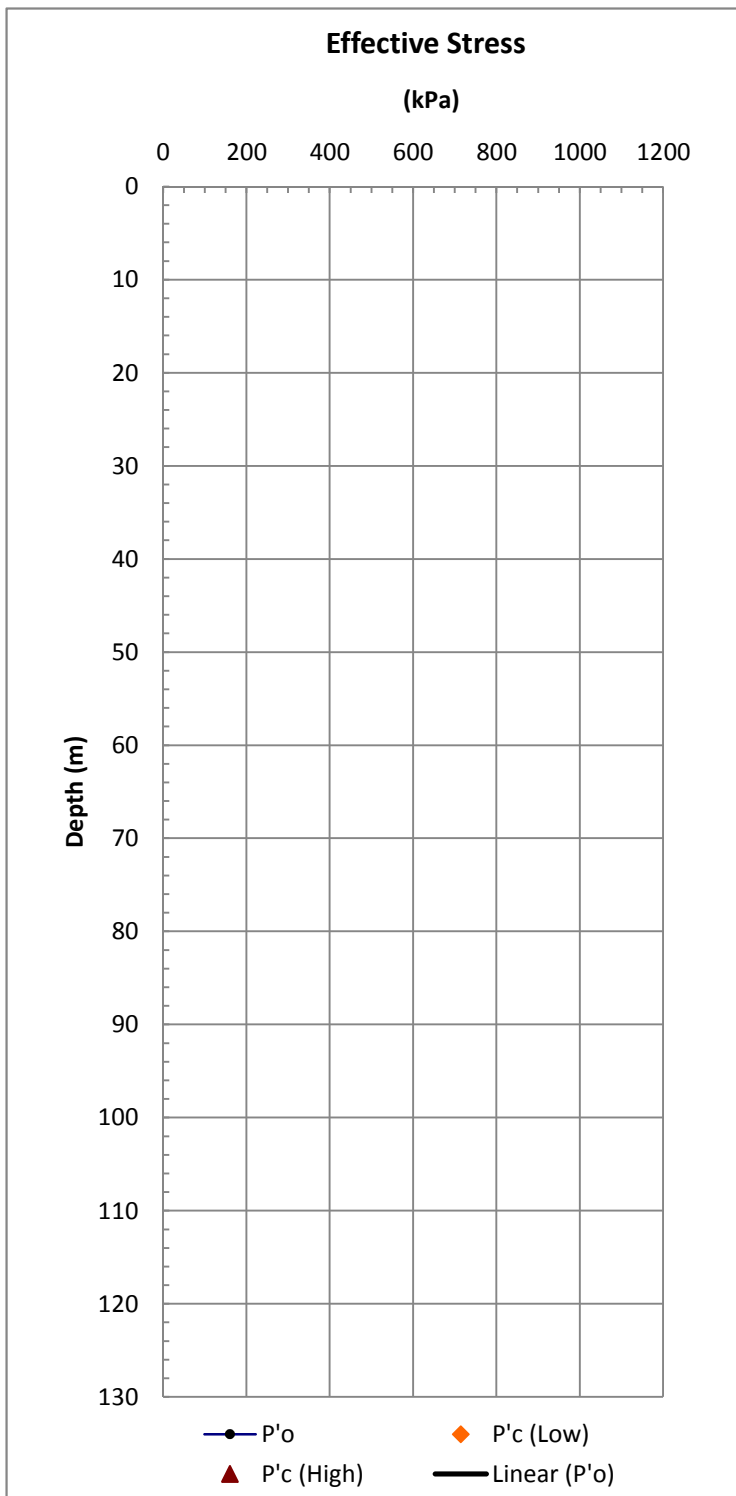
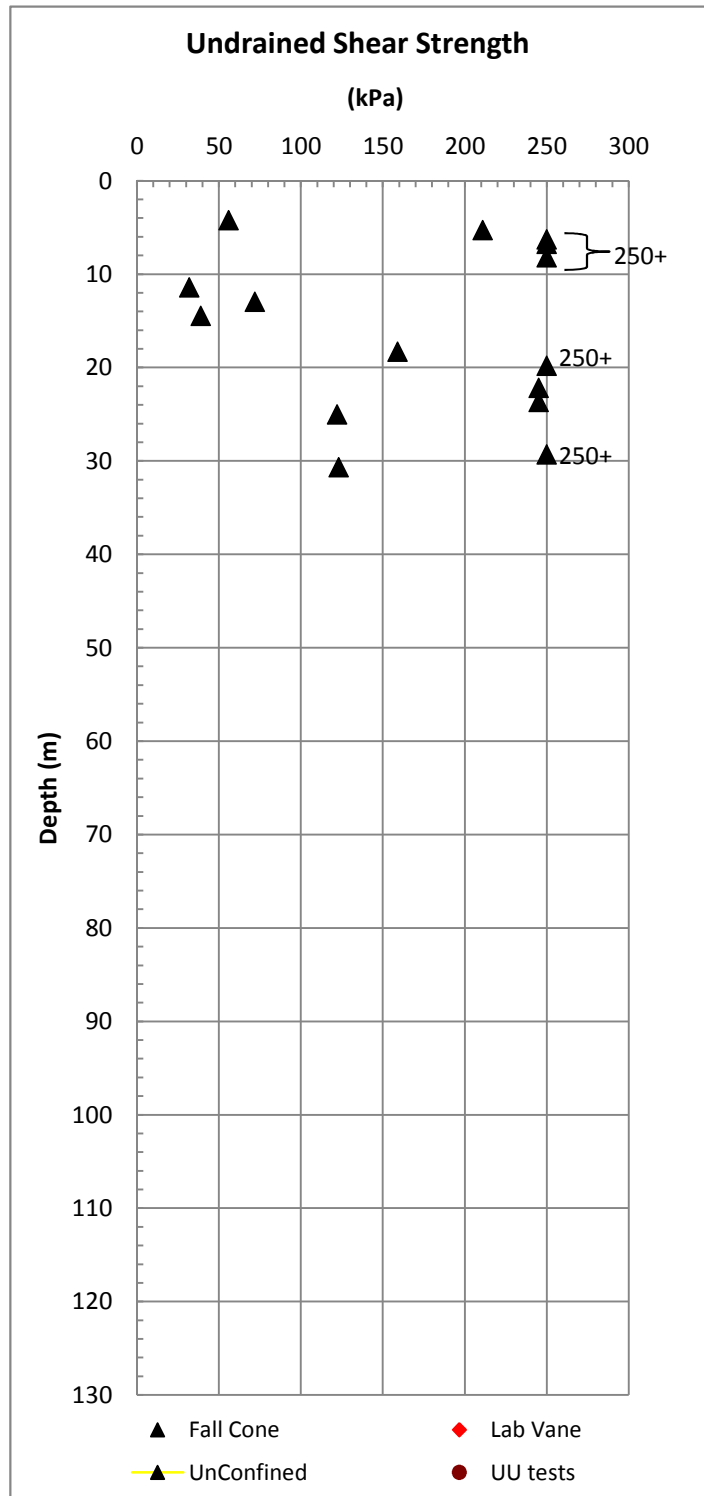
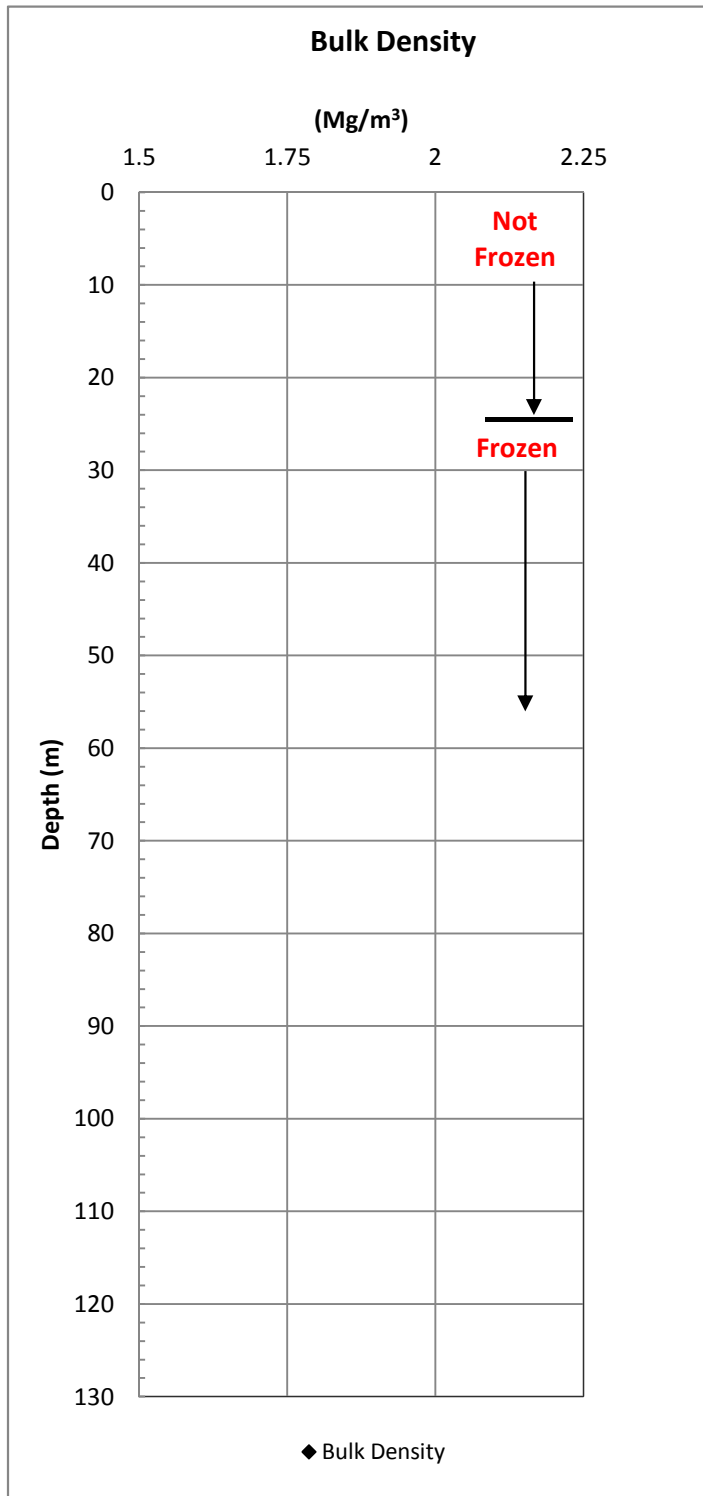
Figure C.3

10033 Beaufort Data



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Figure C.3
10033 Beaufort Data

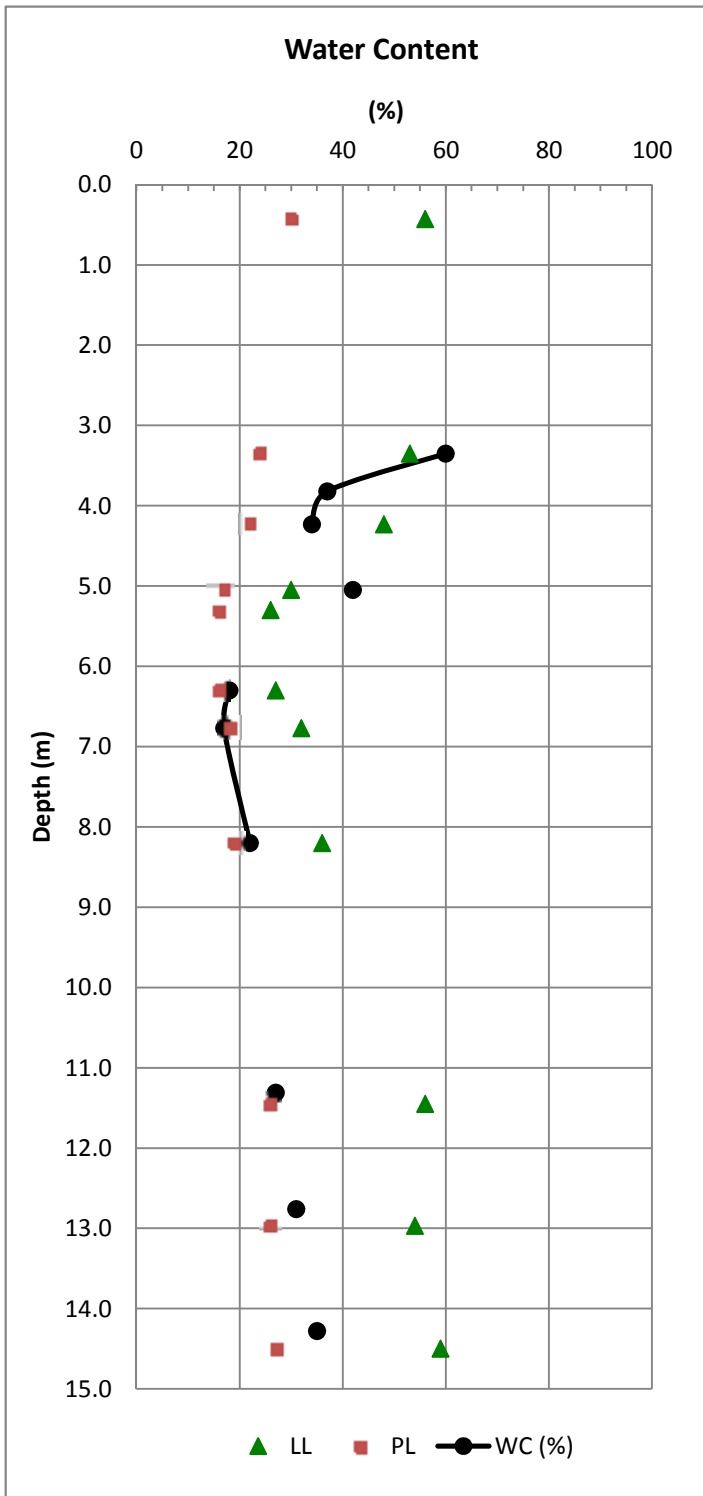
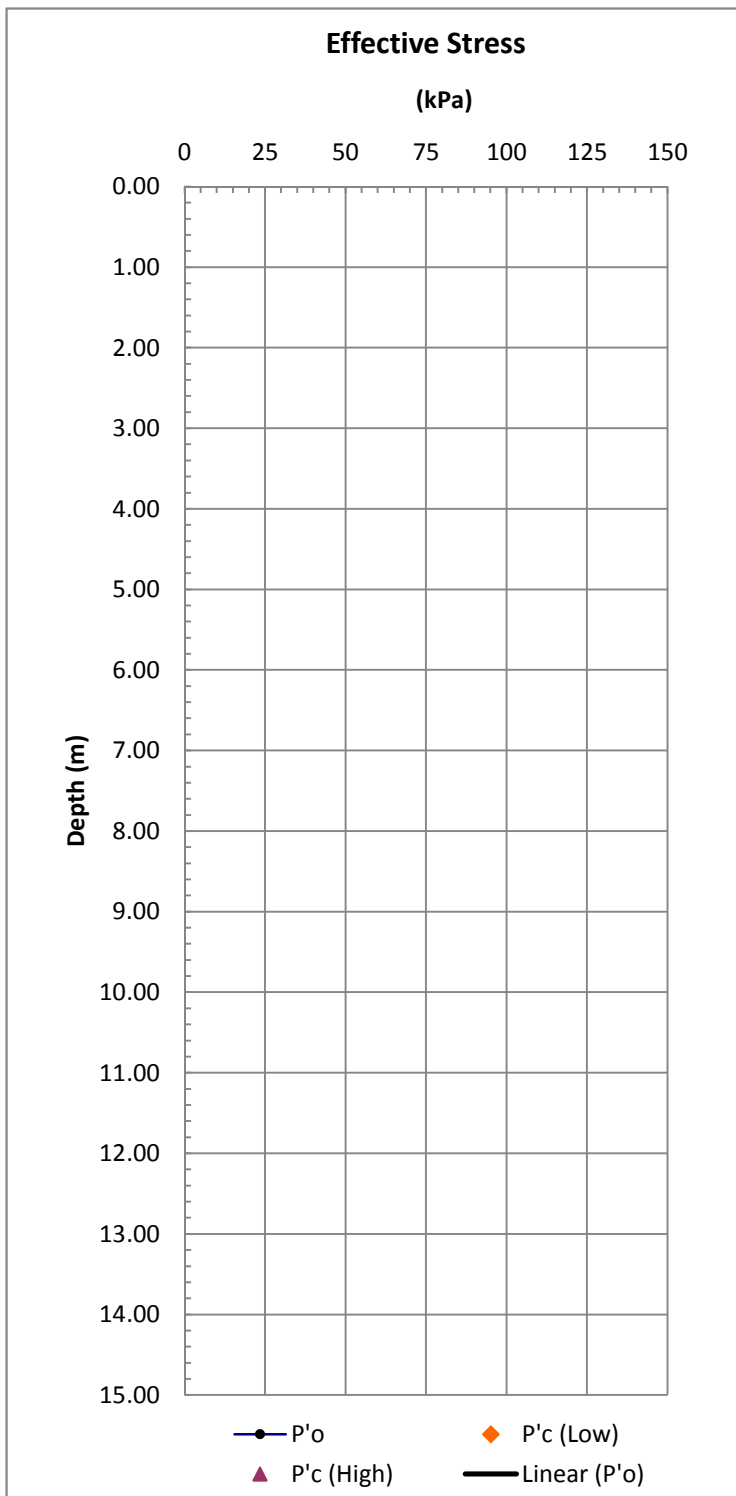
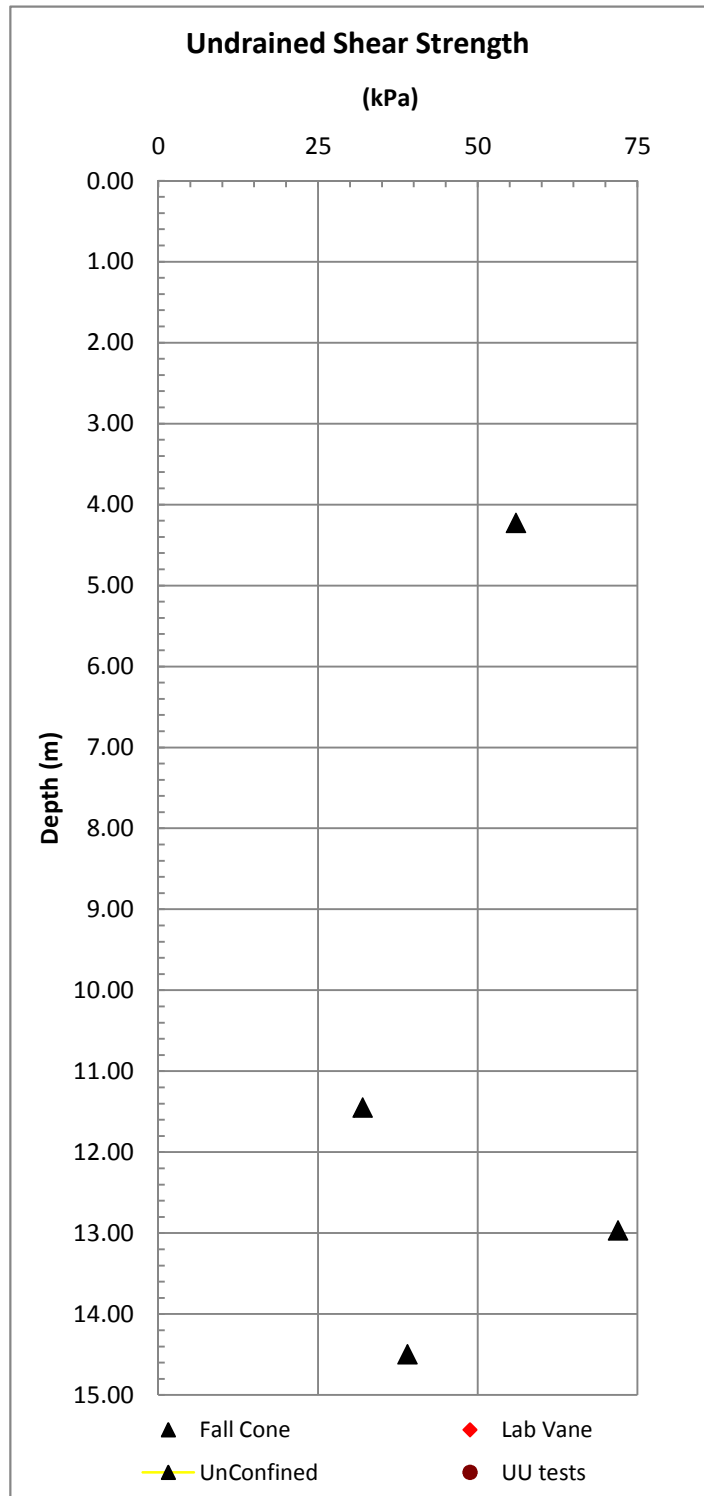
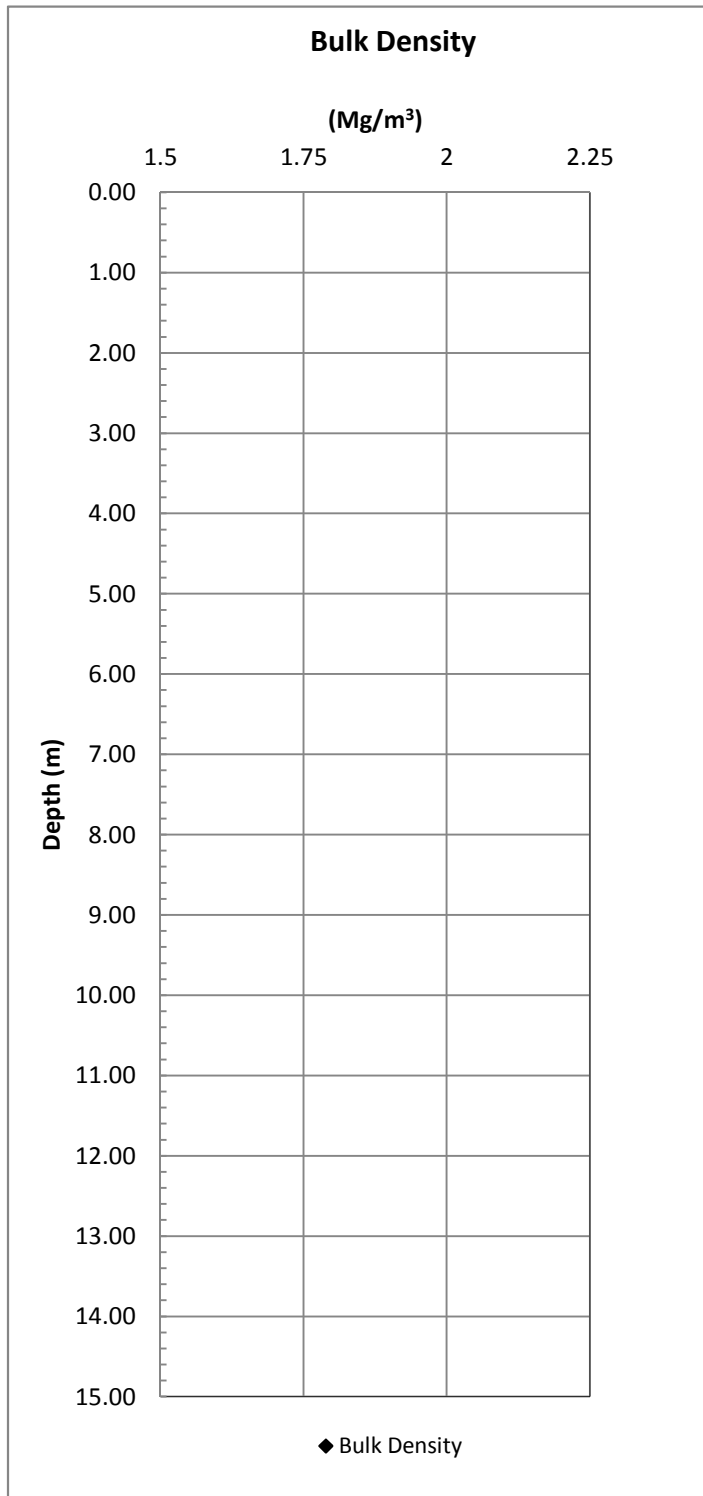


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Figure C.3

10033 Beaufort Data

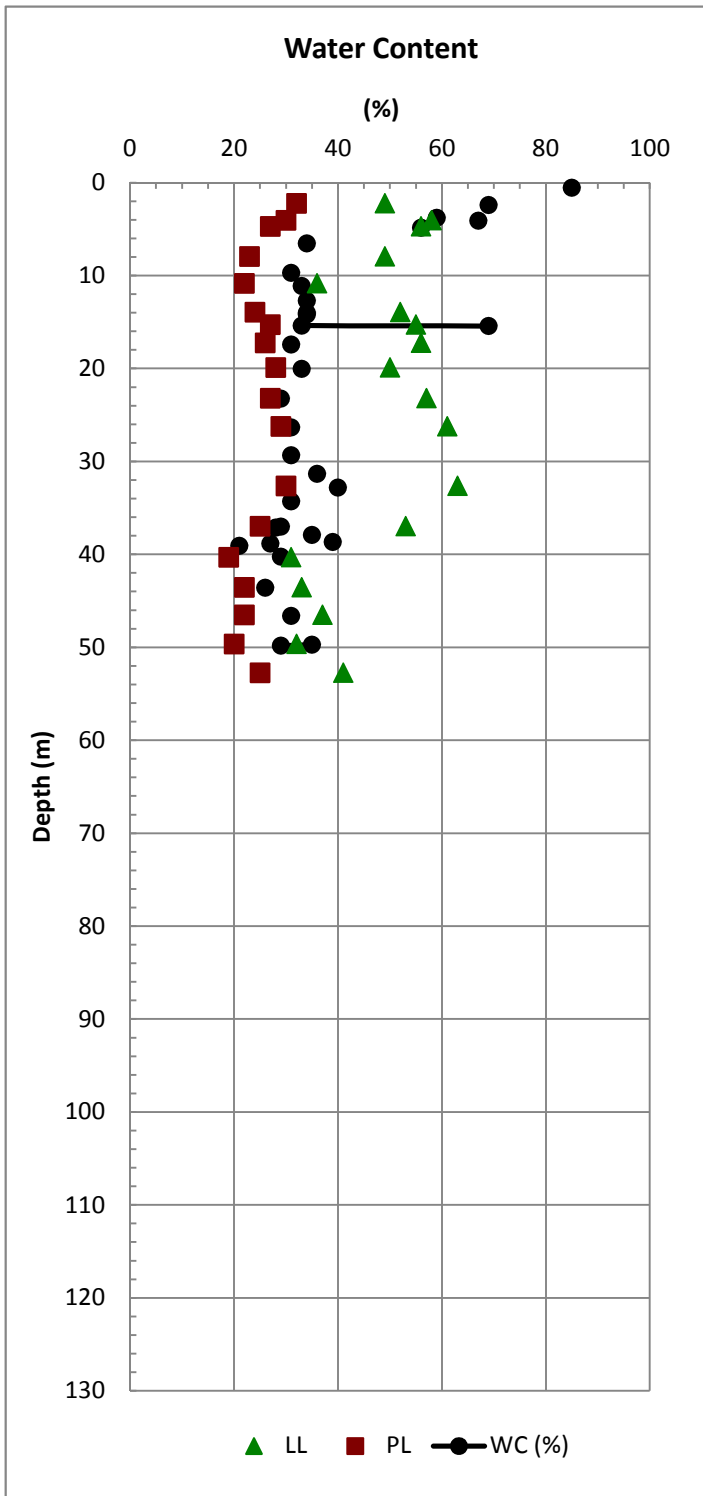
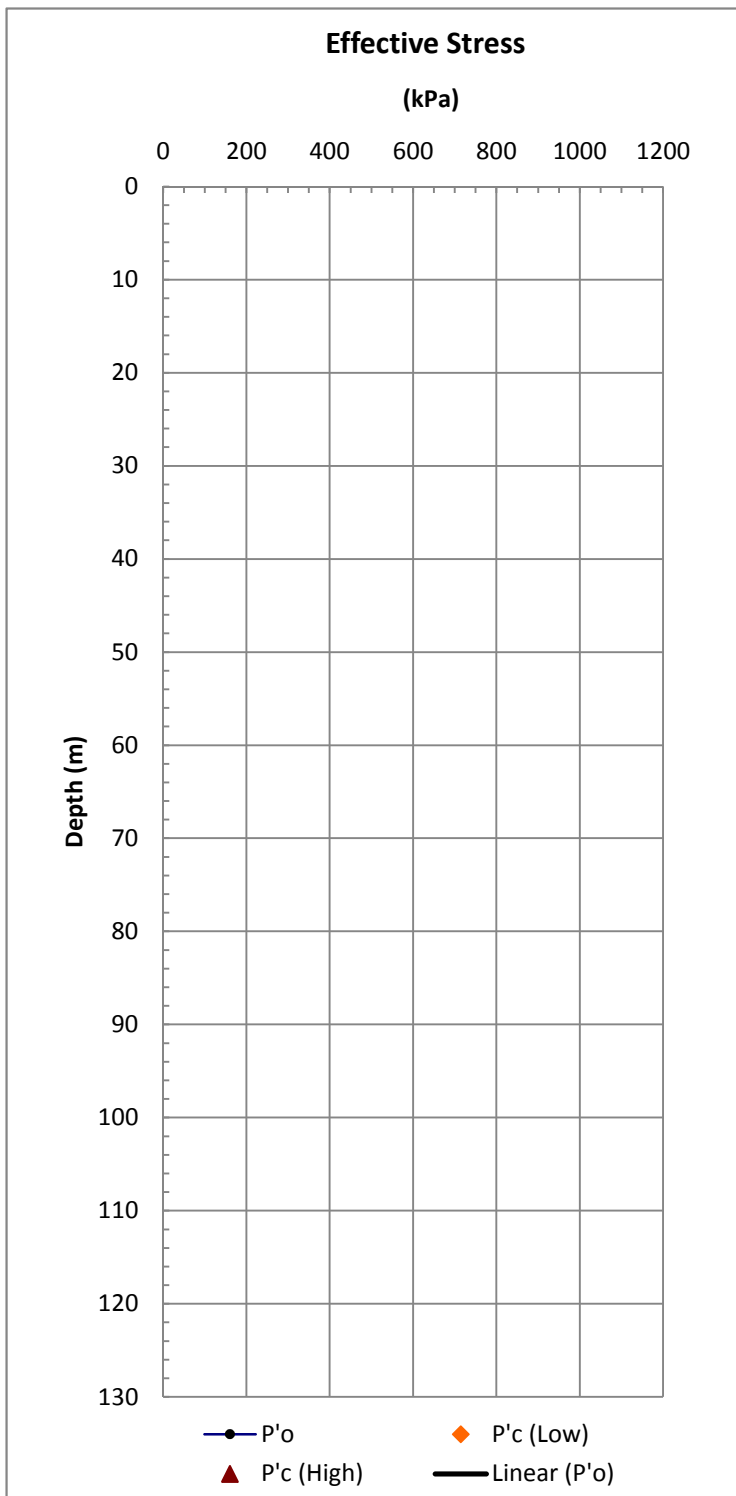
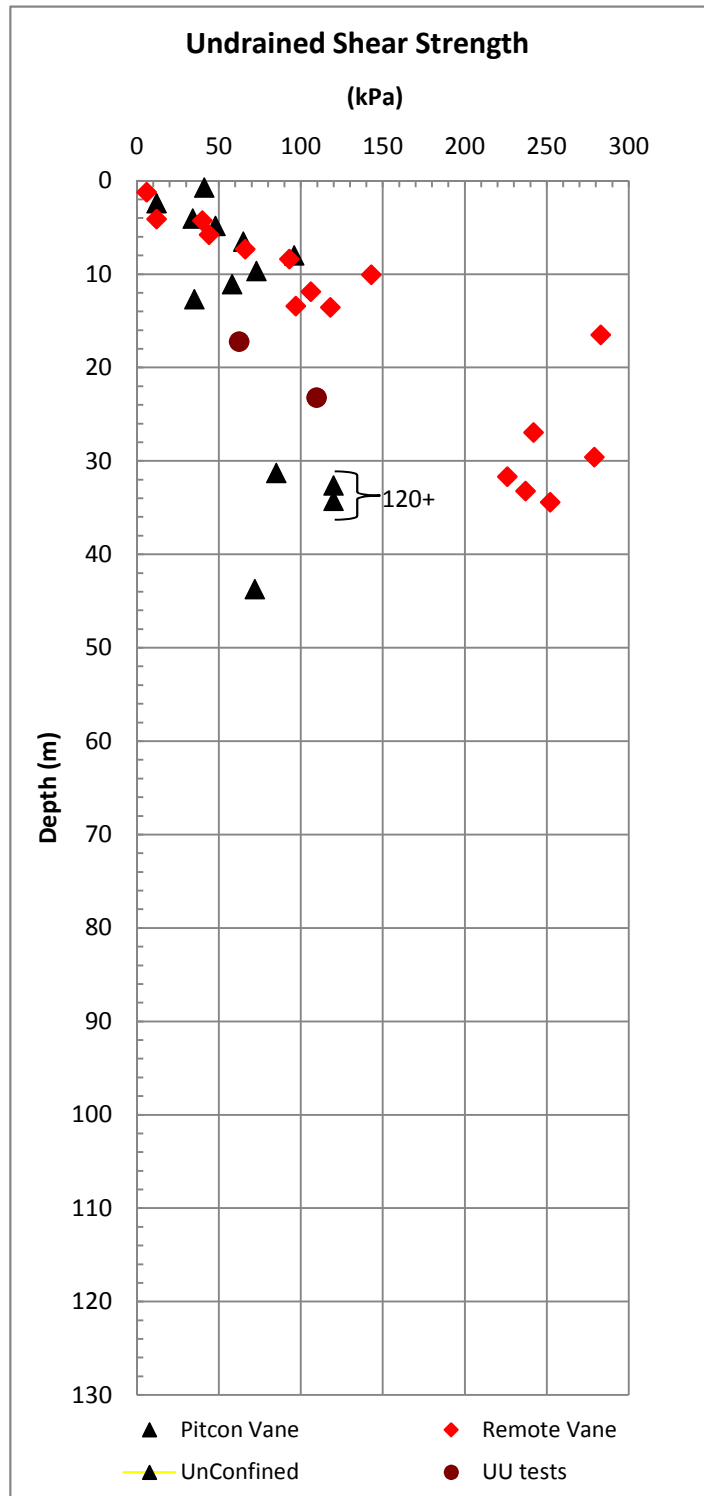
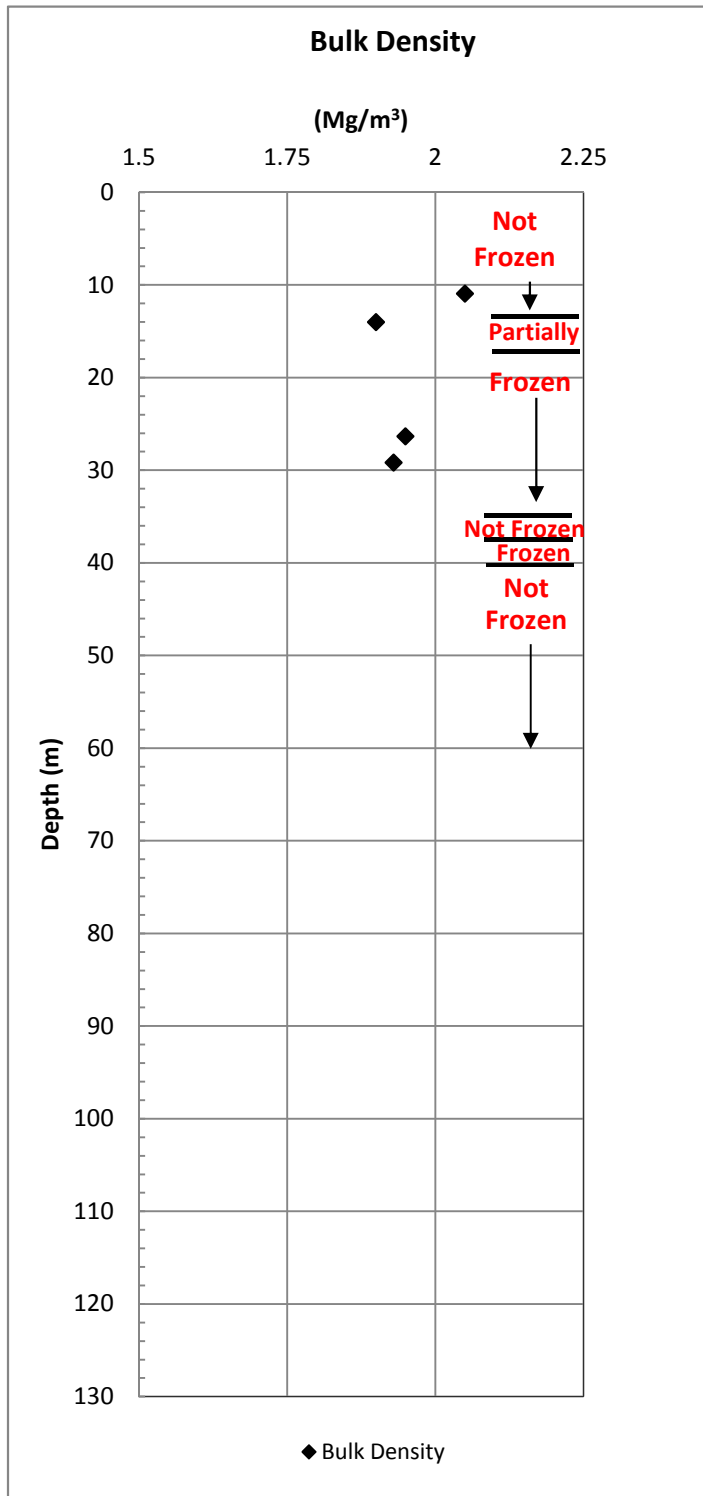


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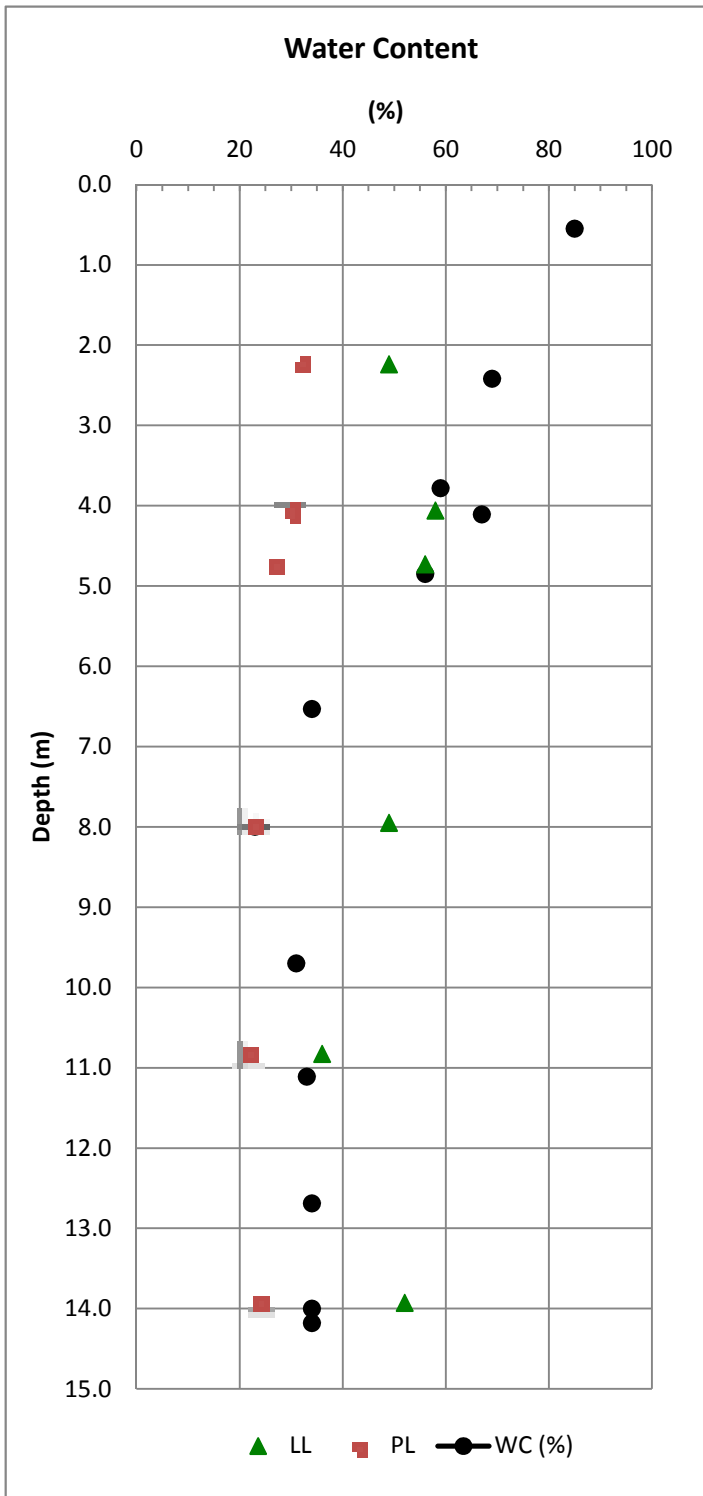
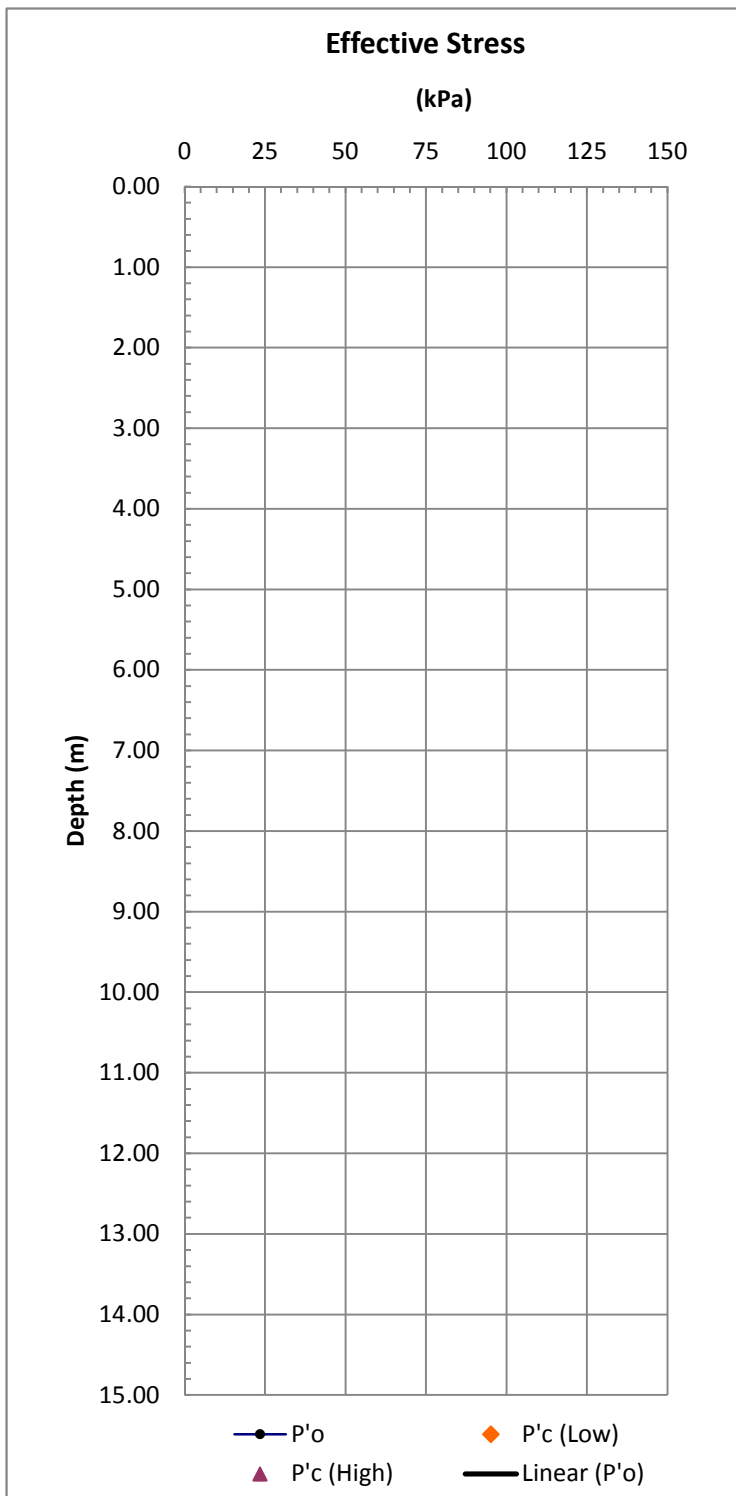
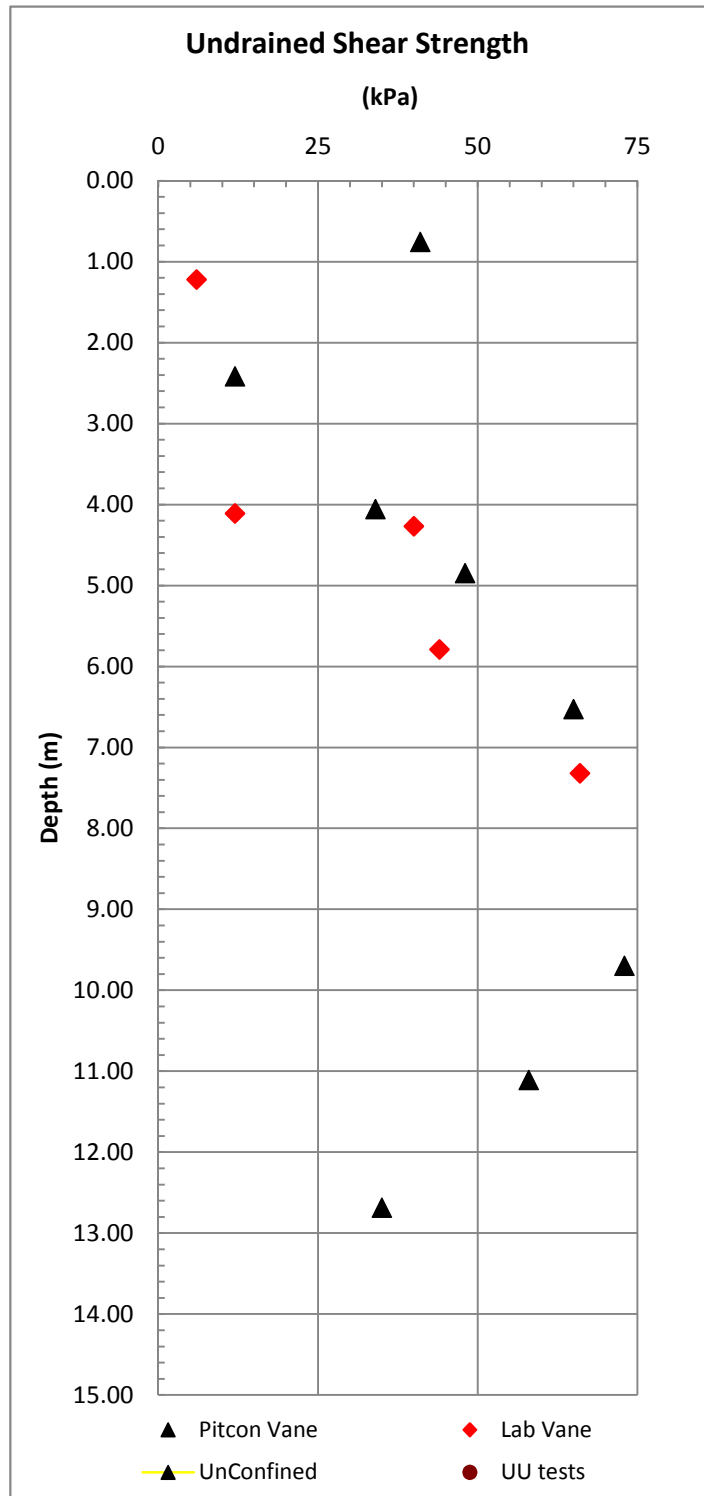
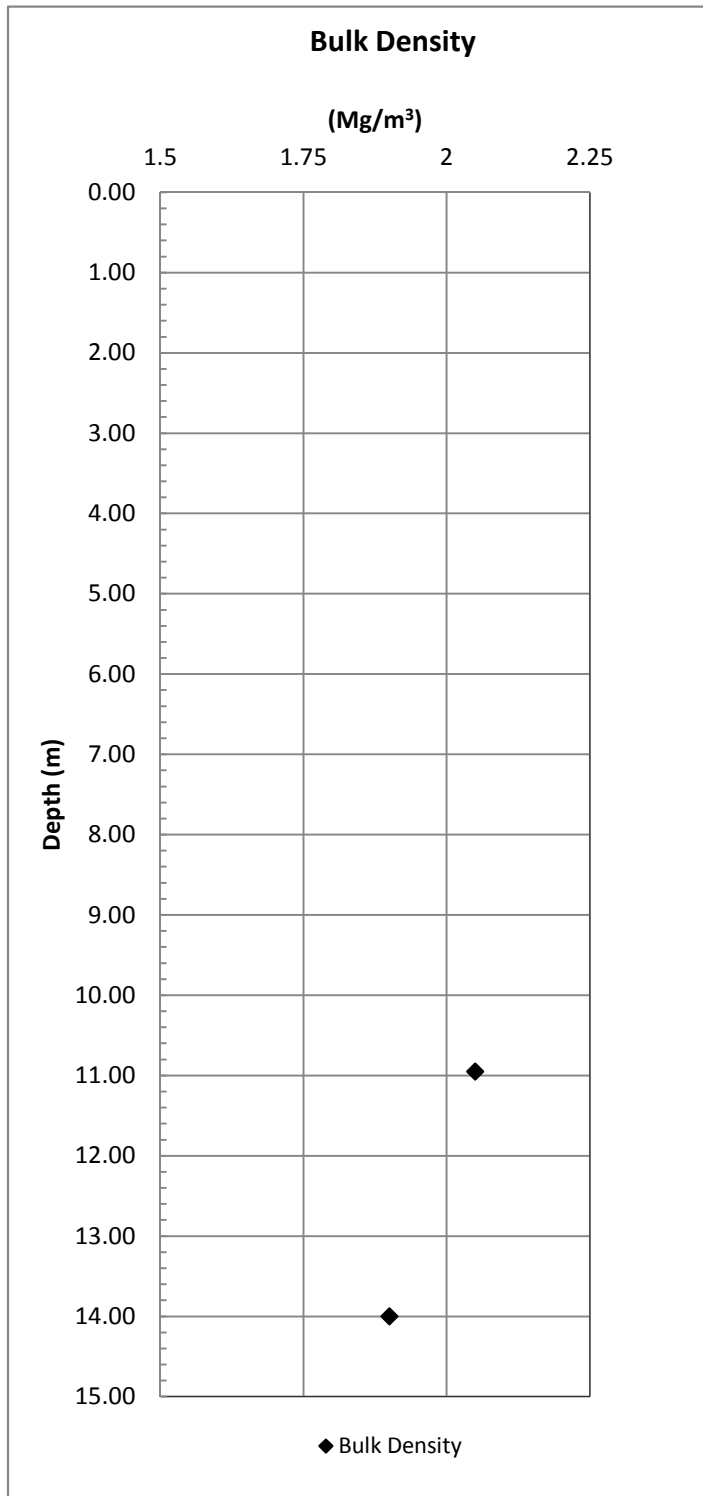
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10033 Beaufort Data



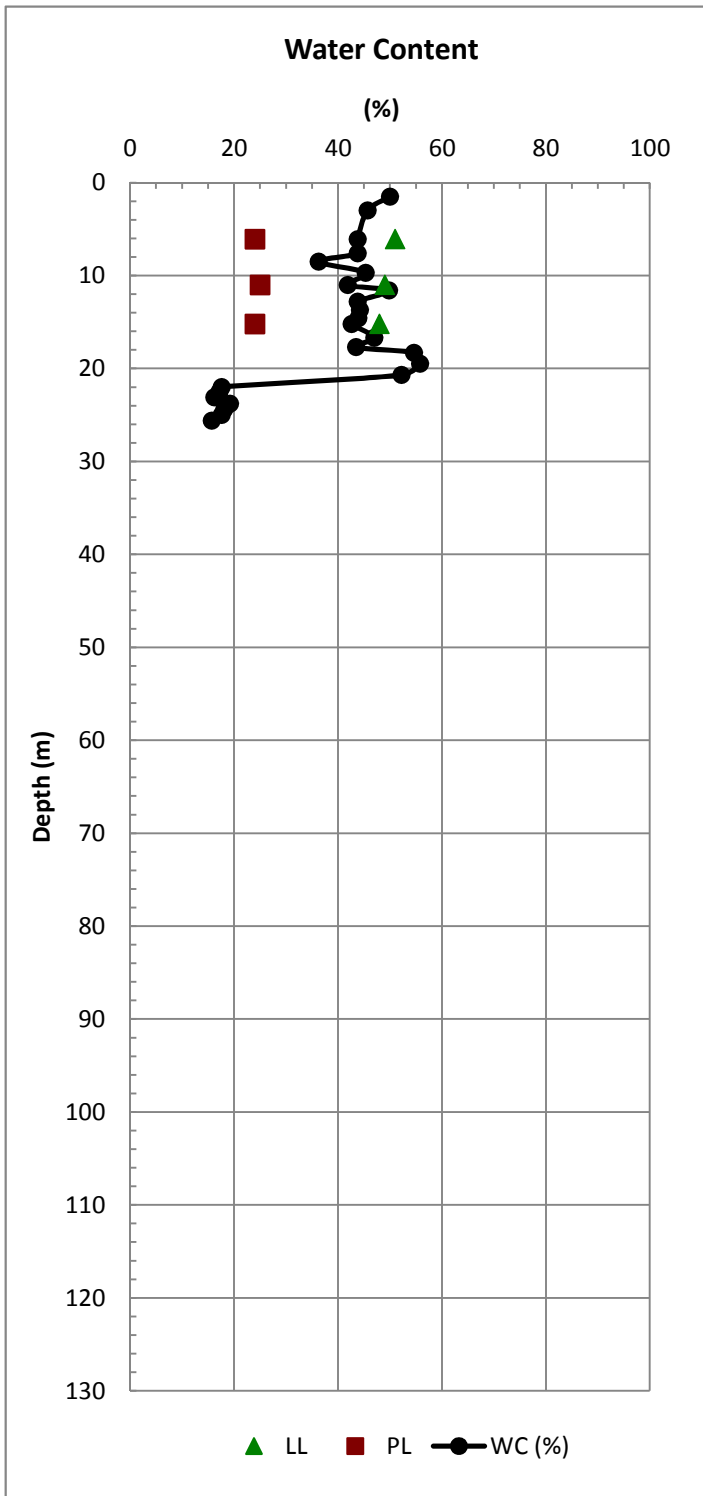
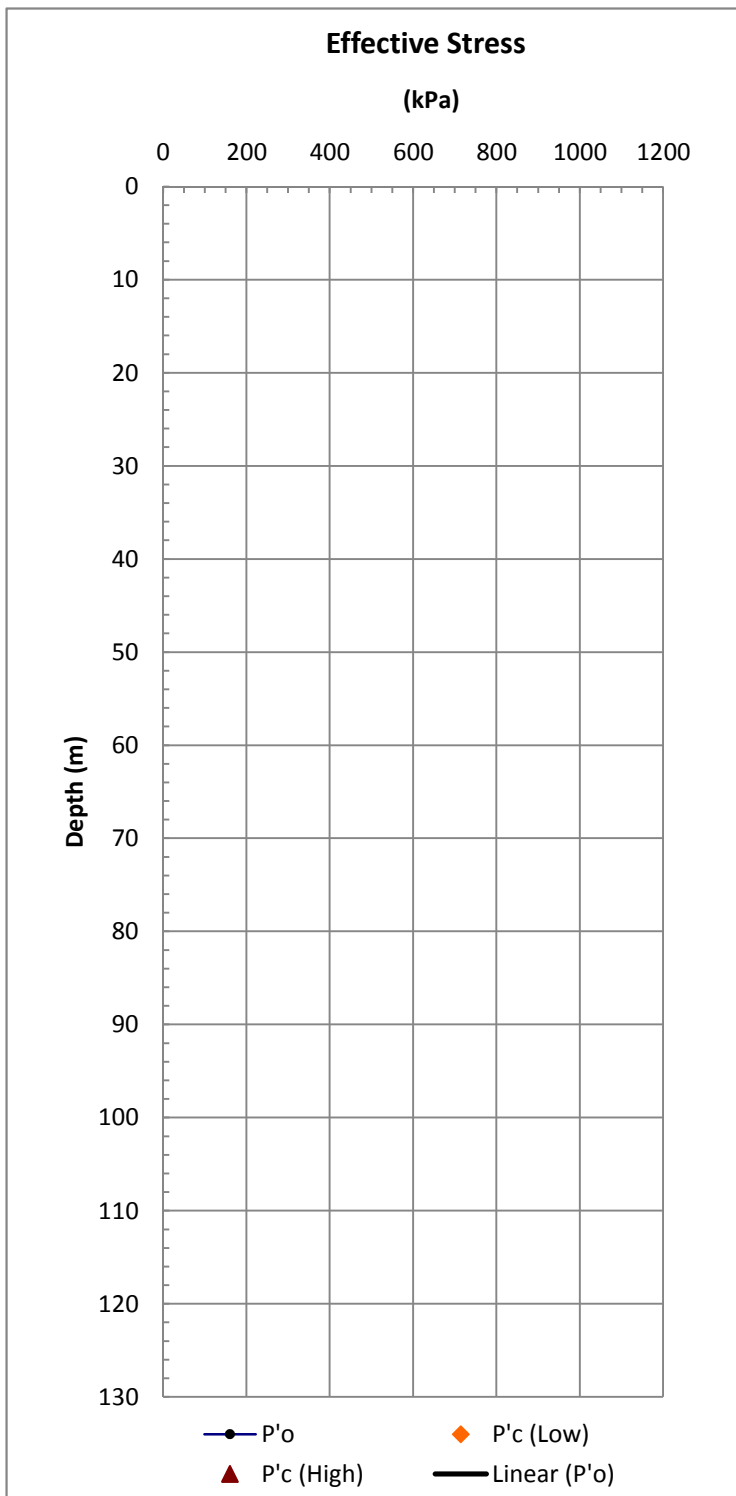
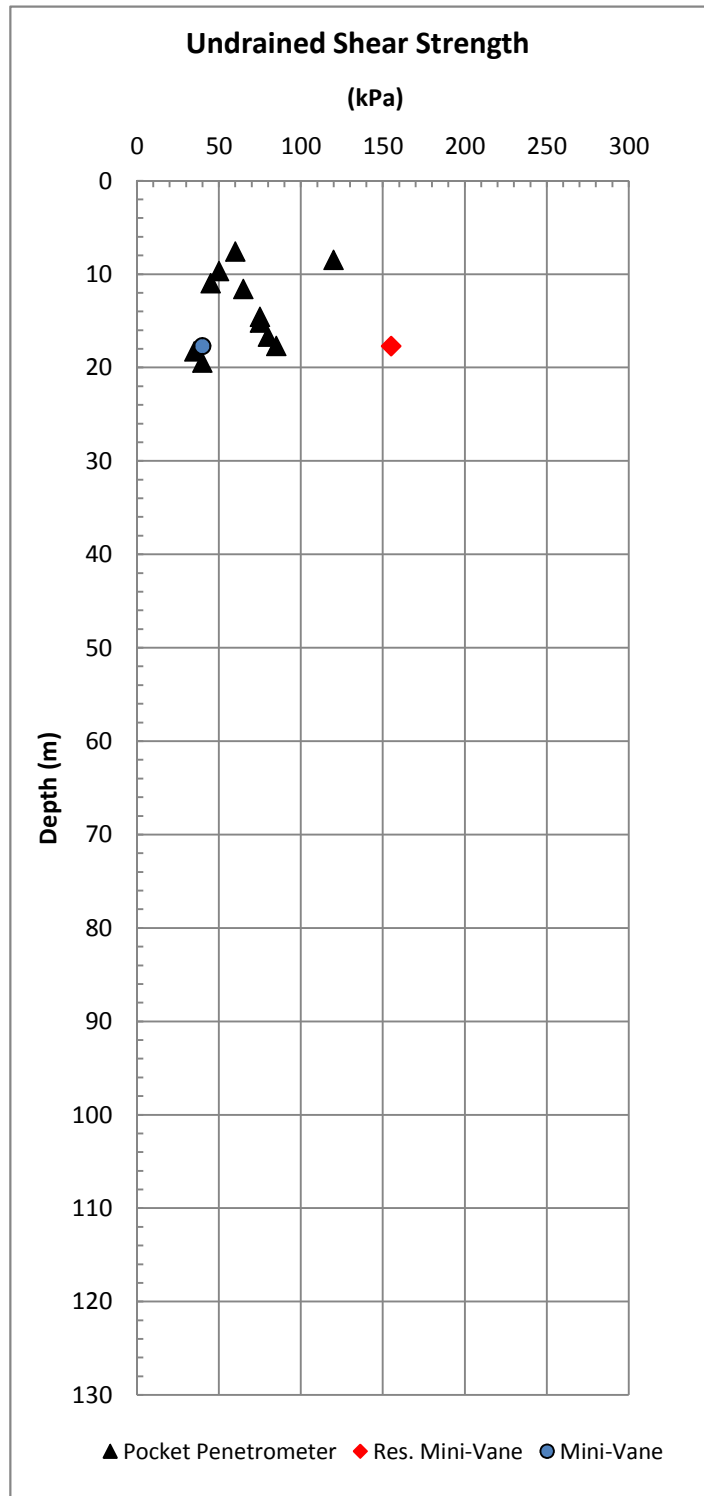
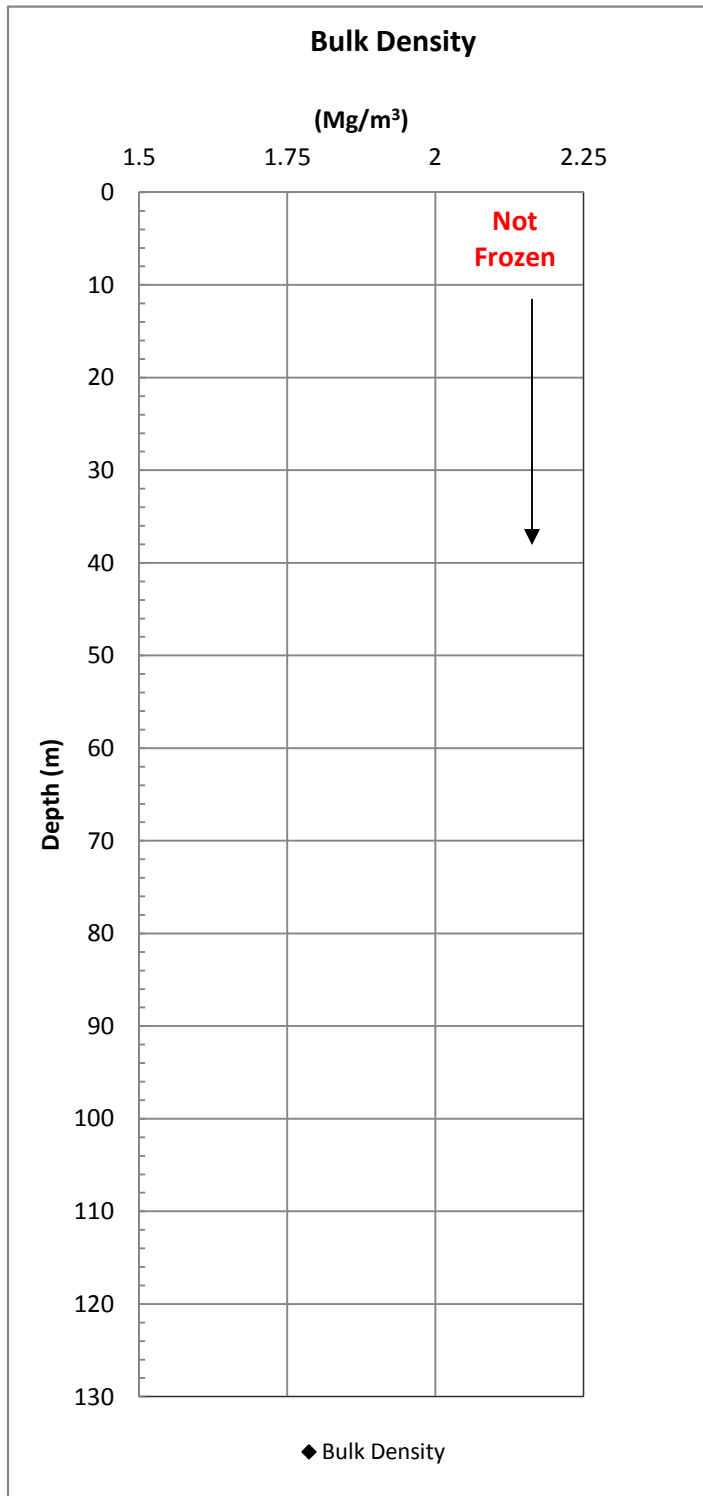
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Kugdjuk KG82S02
Figure C.3
10033 Beaufort Data



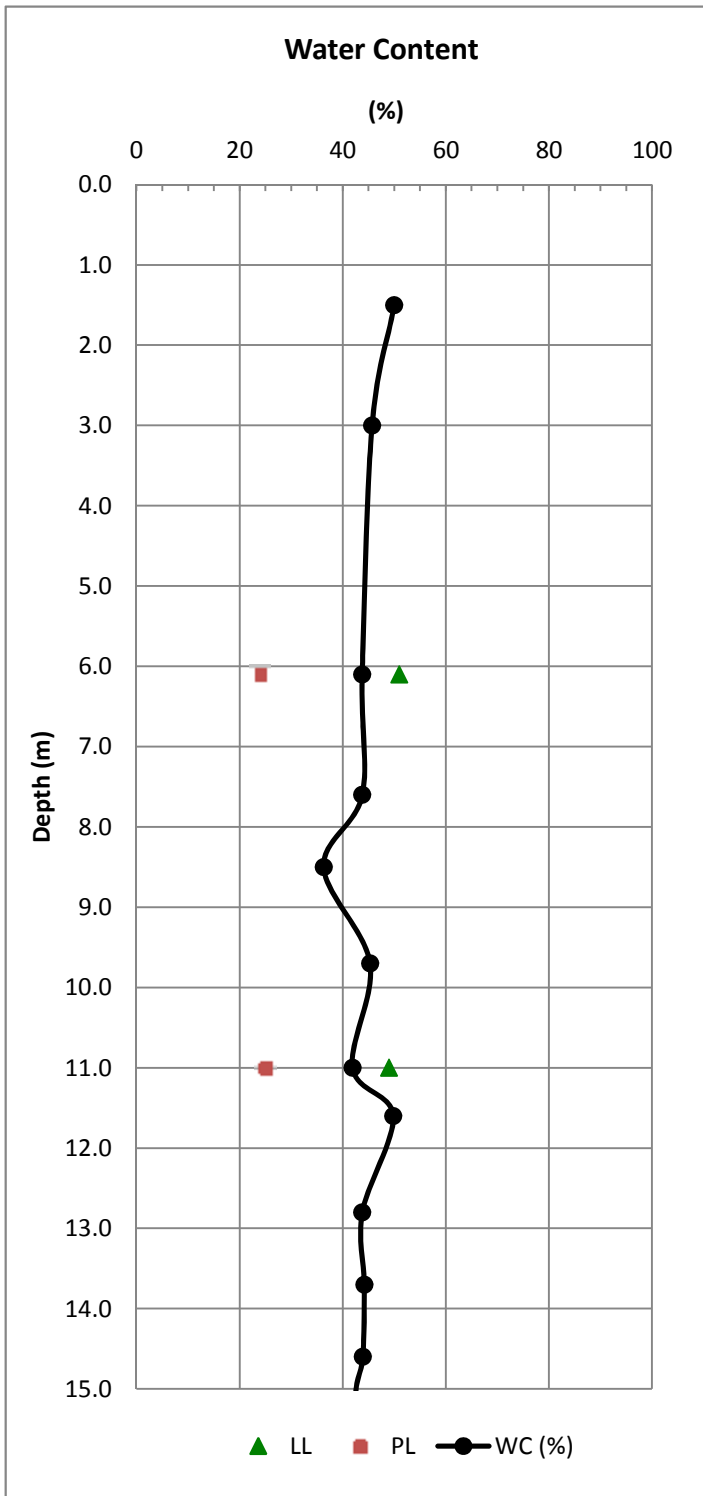
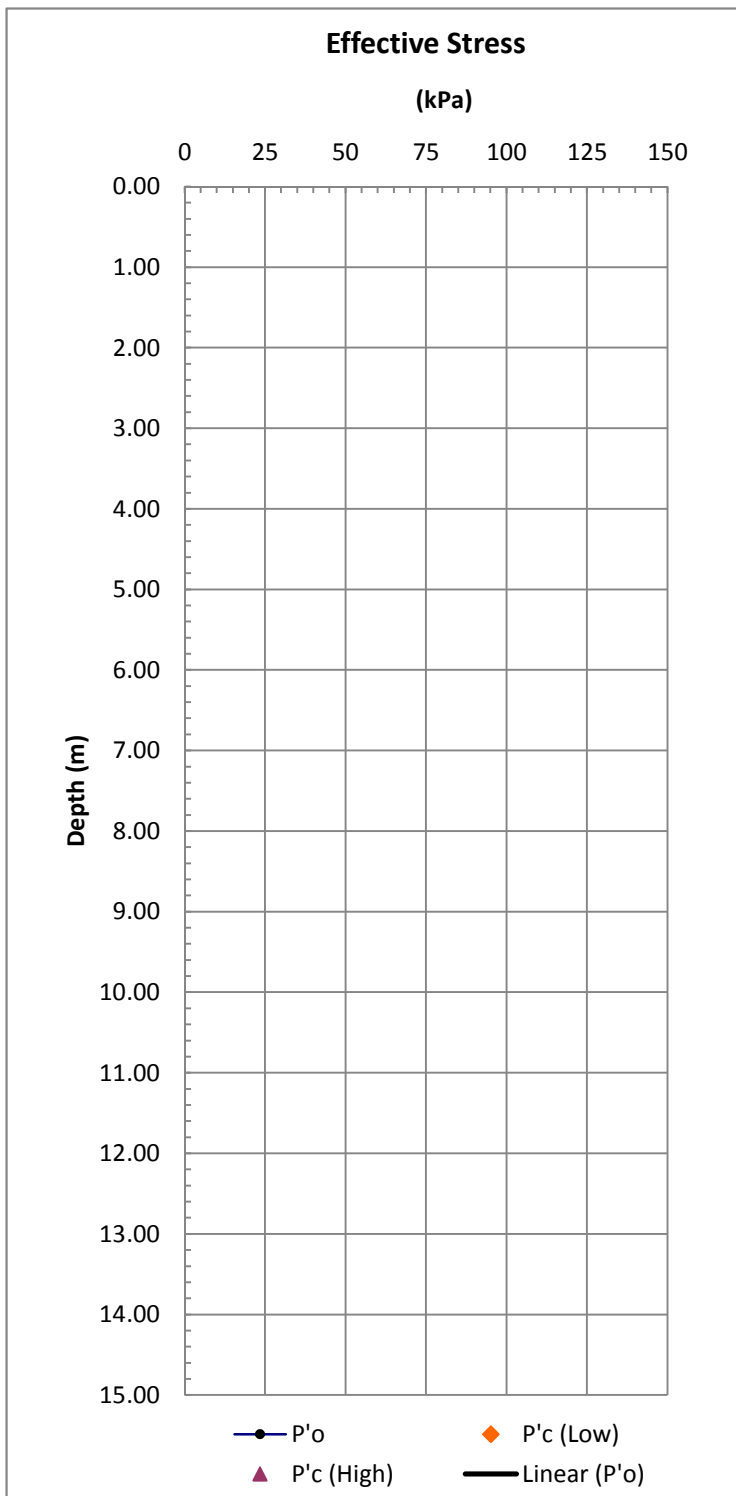
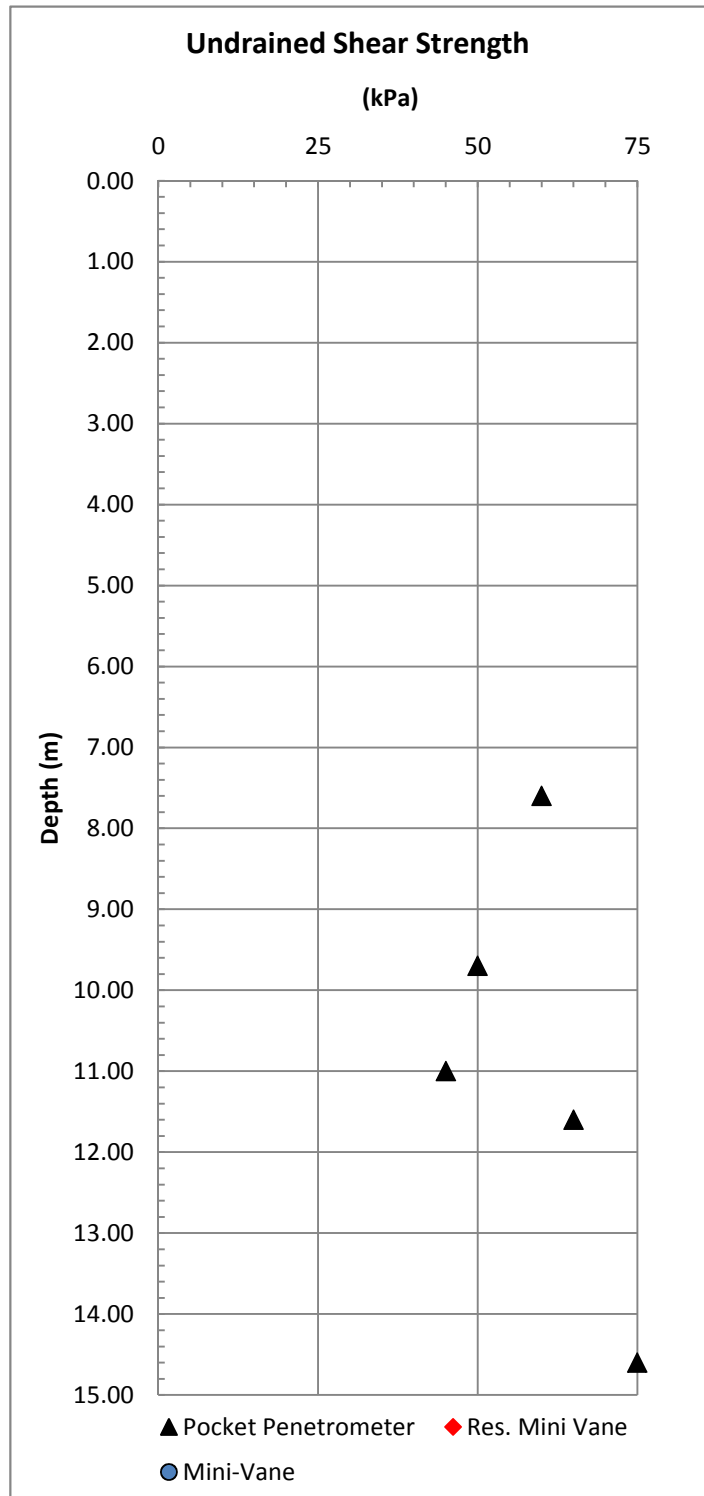
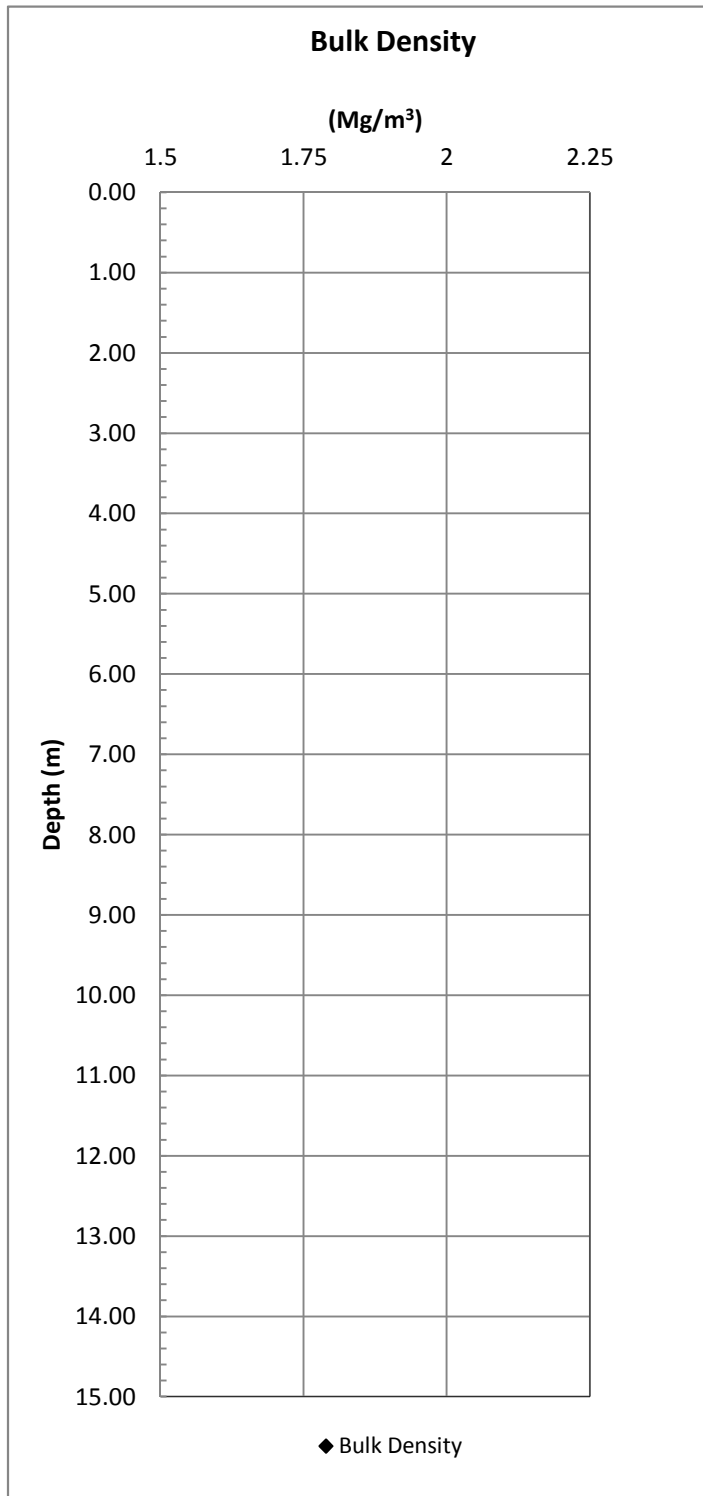
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Edmonton, Alberta T6E 0K6
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Kugdjuk KG82S02
Figure C.3
10033 Beaufort Data



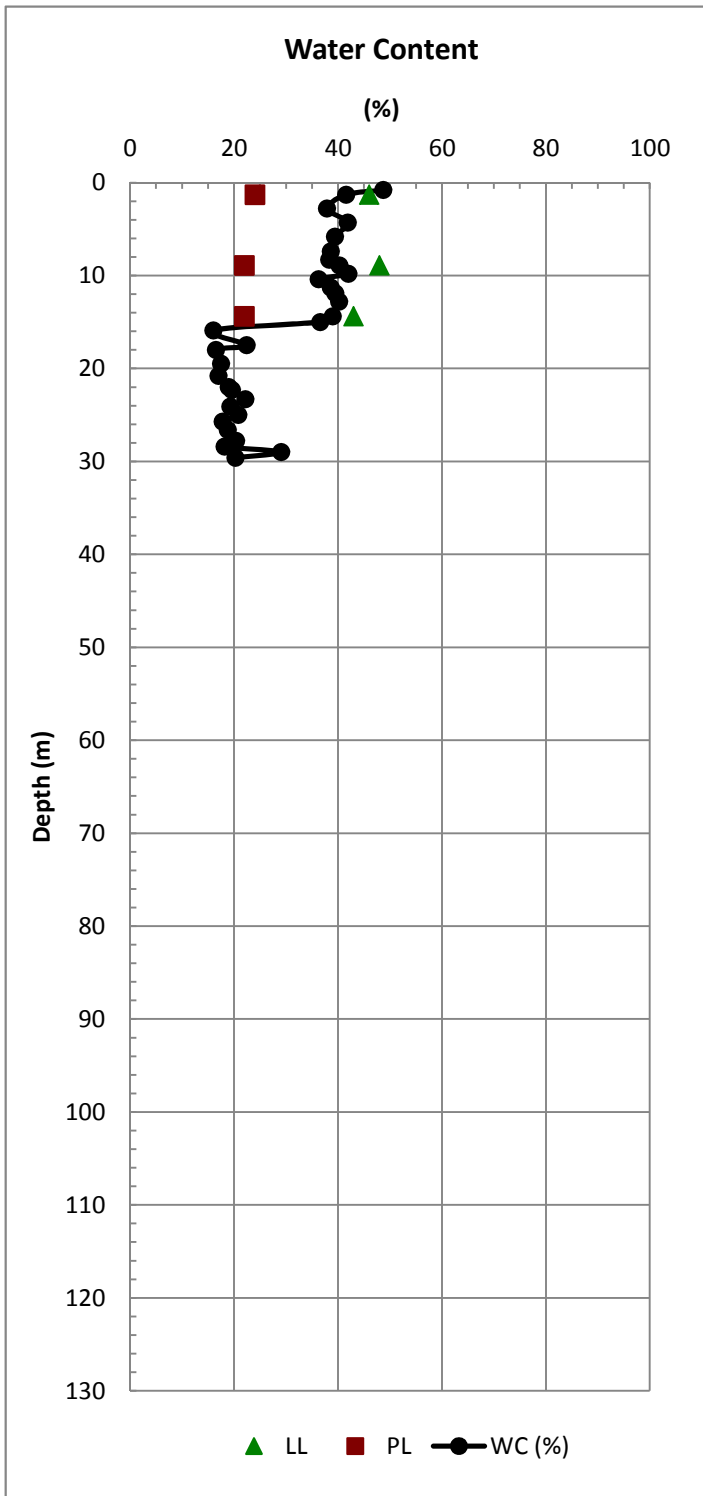
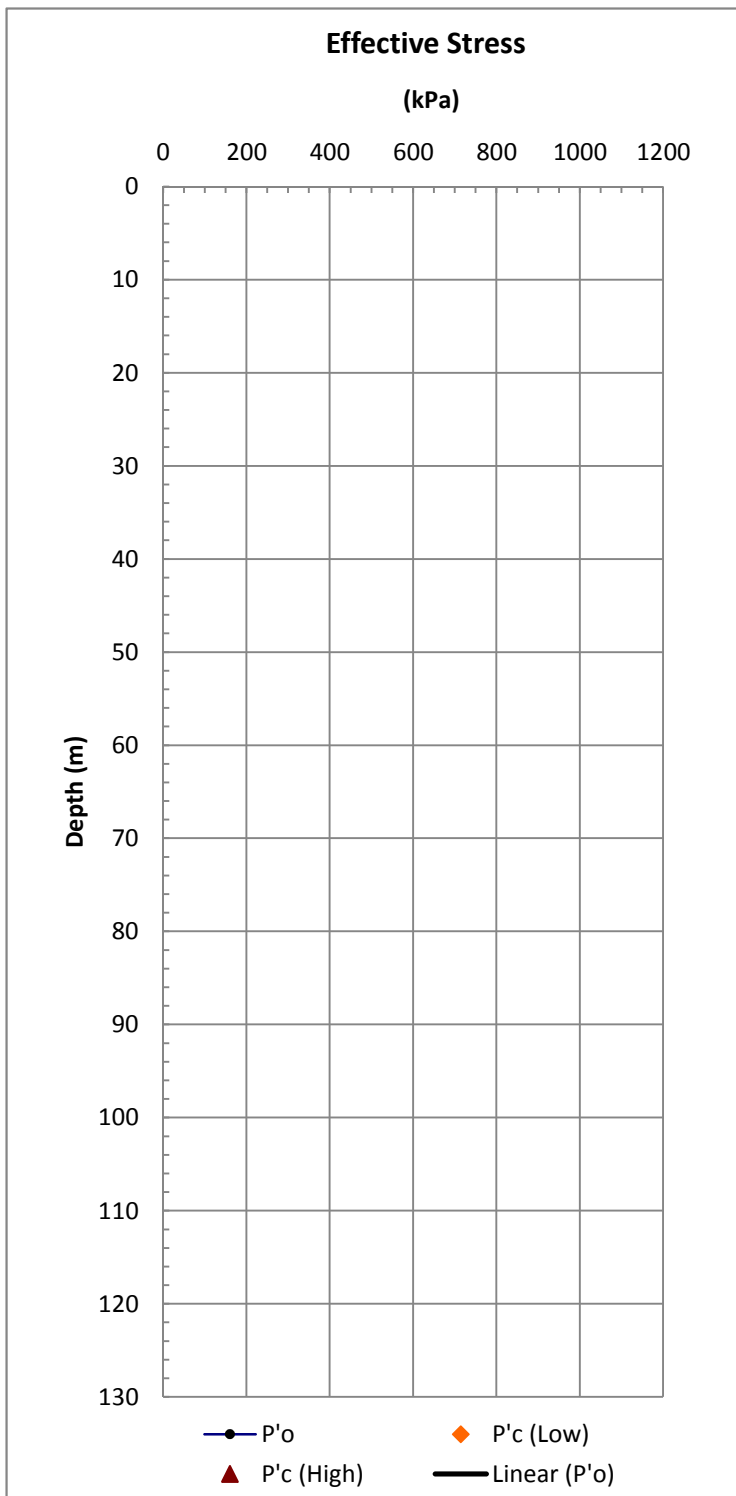
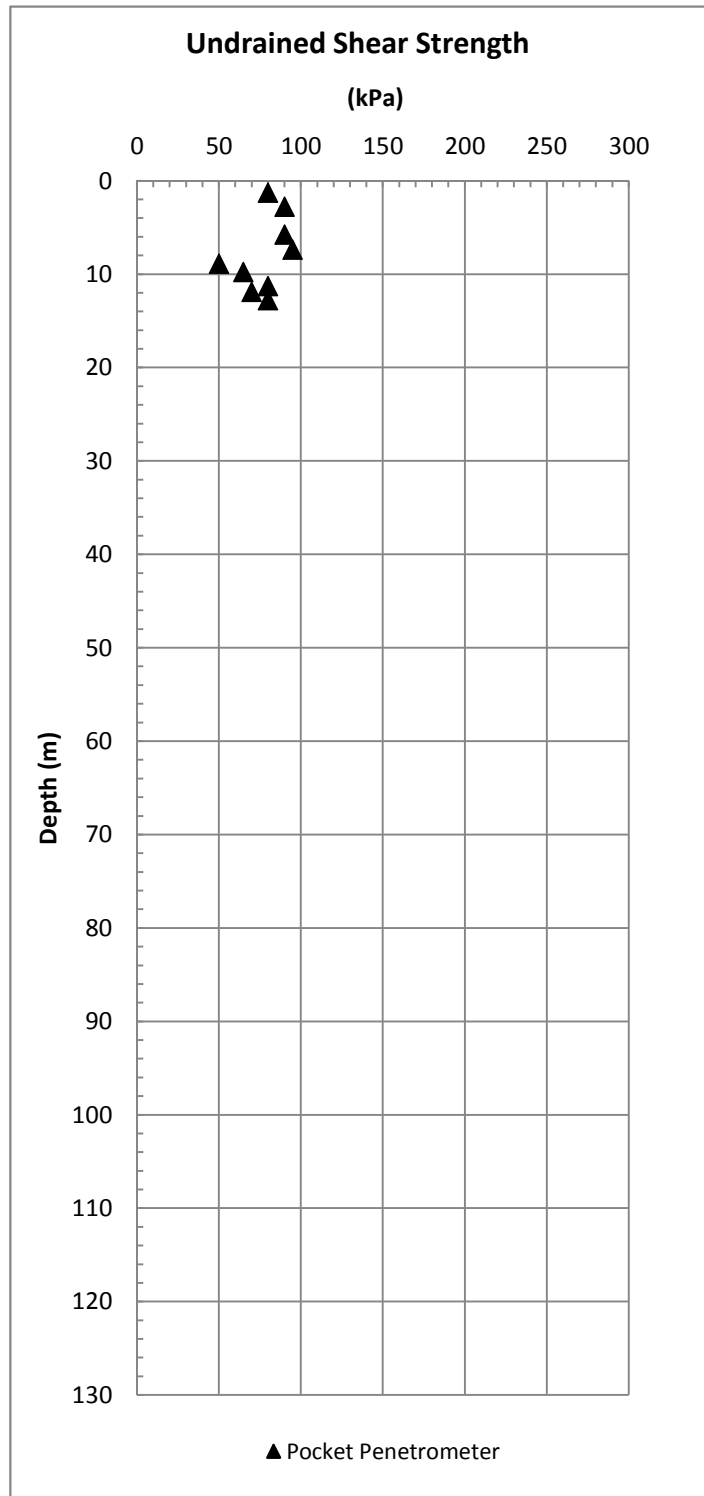
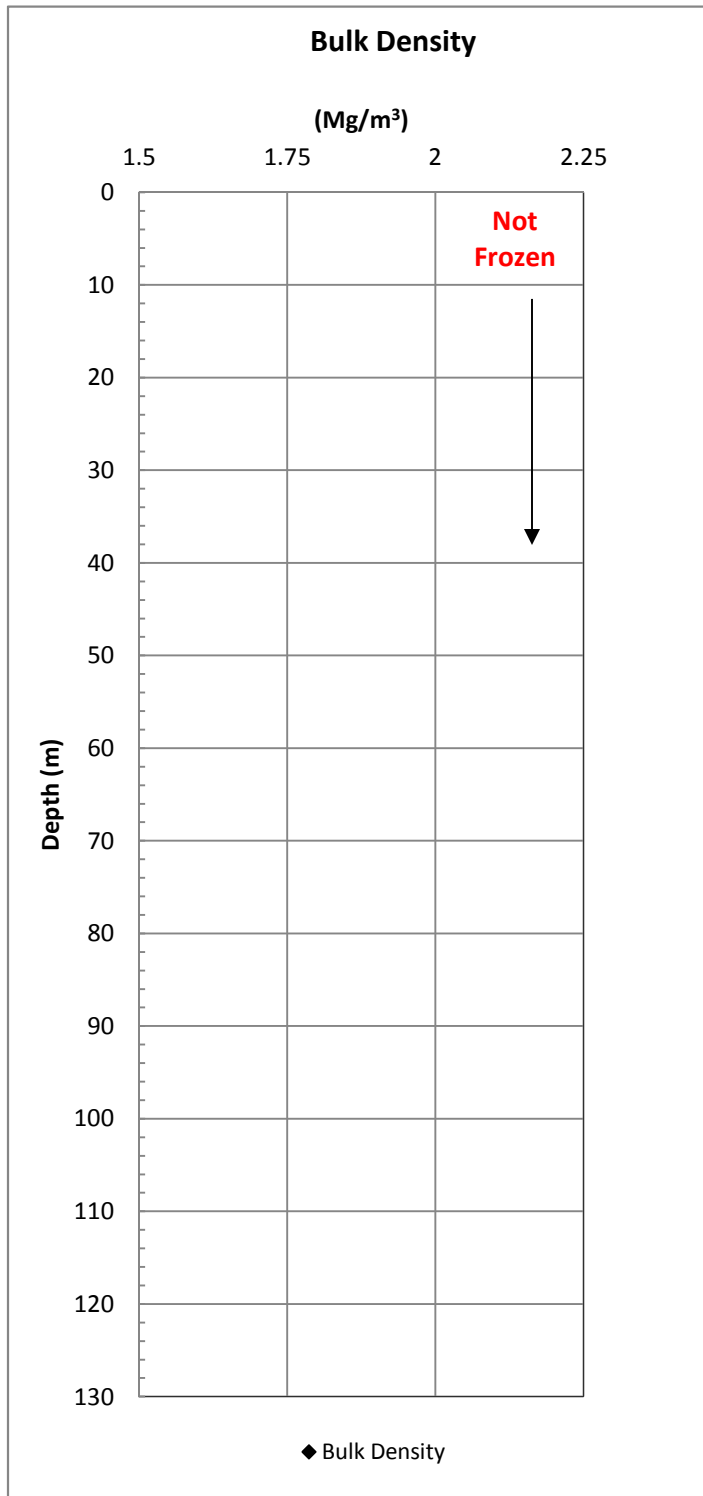
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Nayak 81-1
Figure C.3
 10033 Beaufort Data



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Nayak 81-1
Figure C.3
10033 Beaufort Data

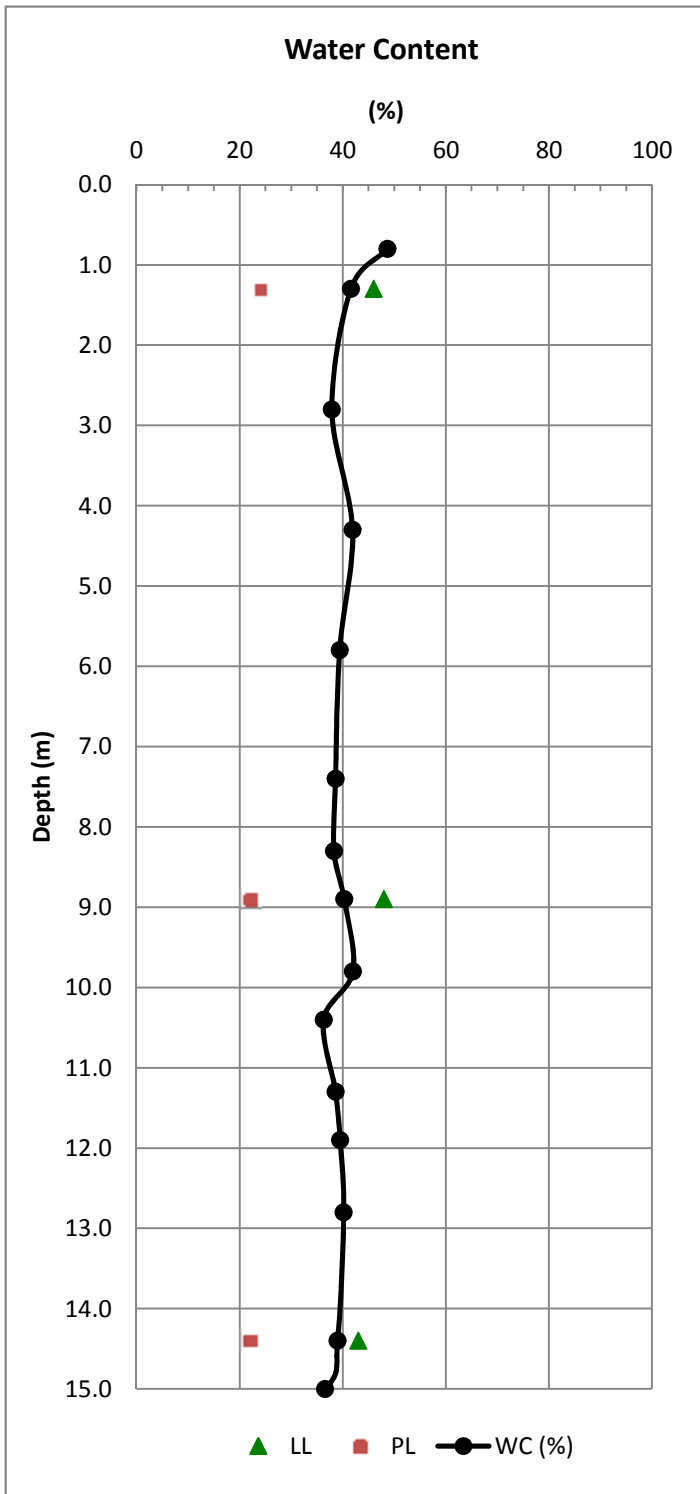
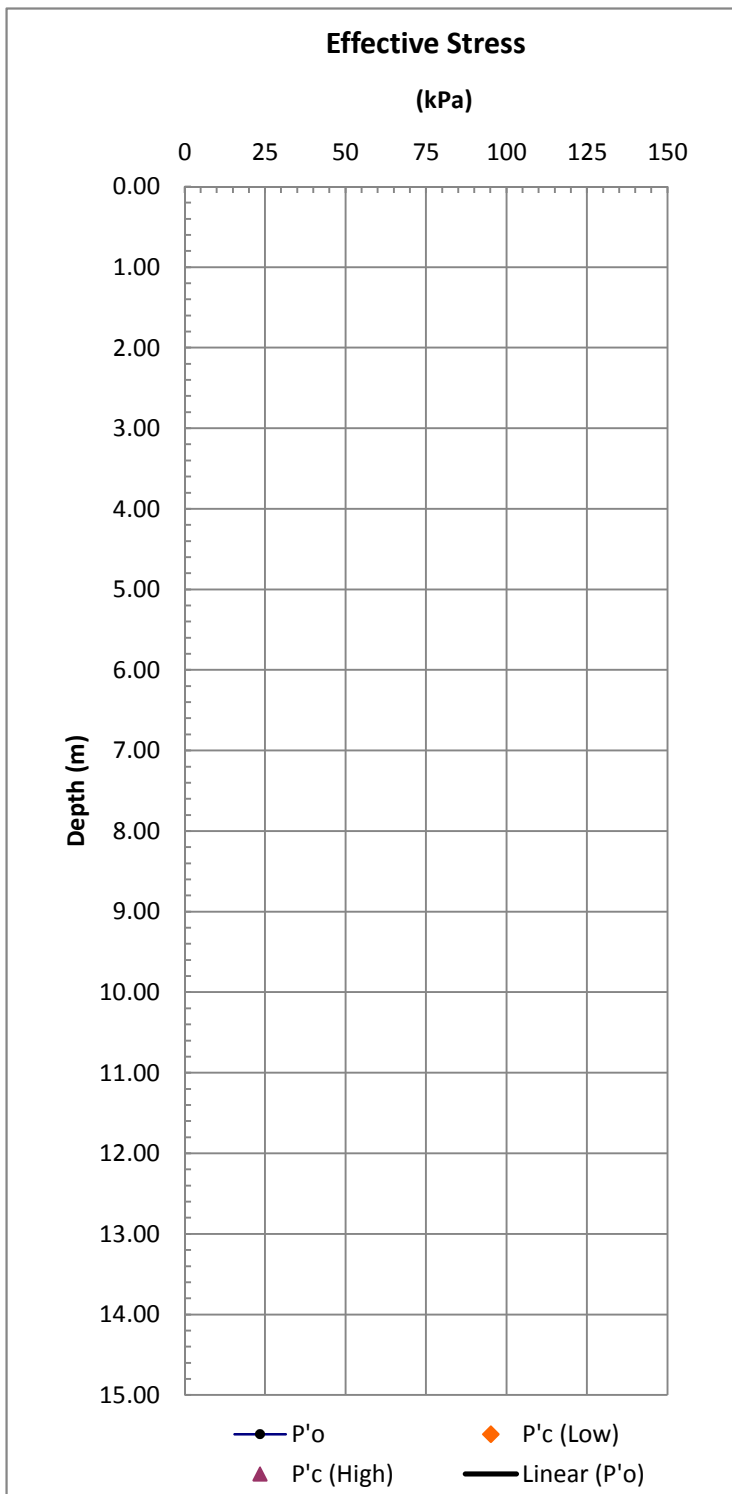
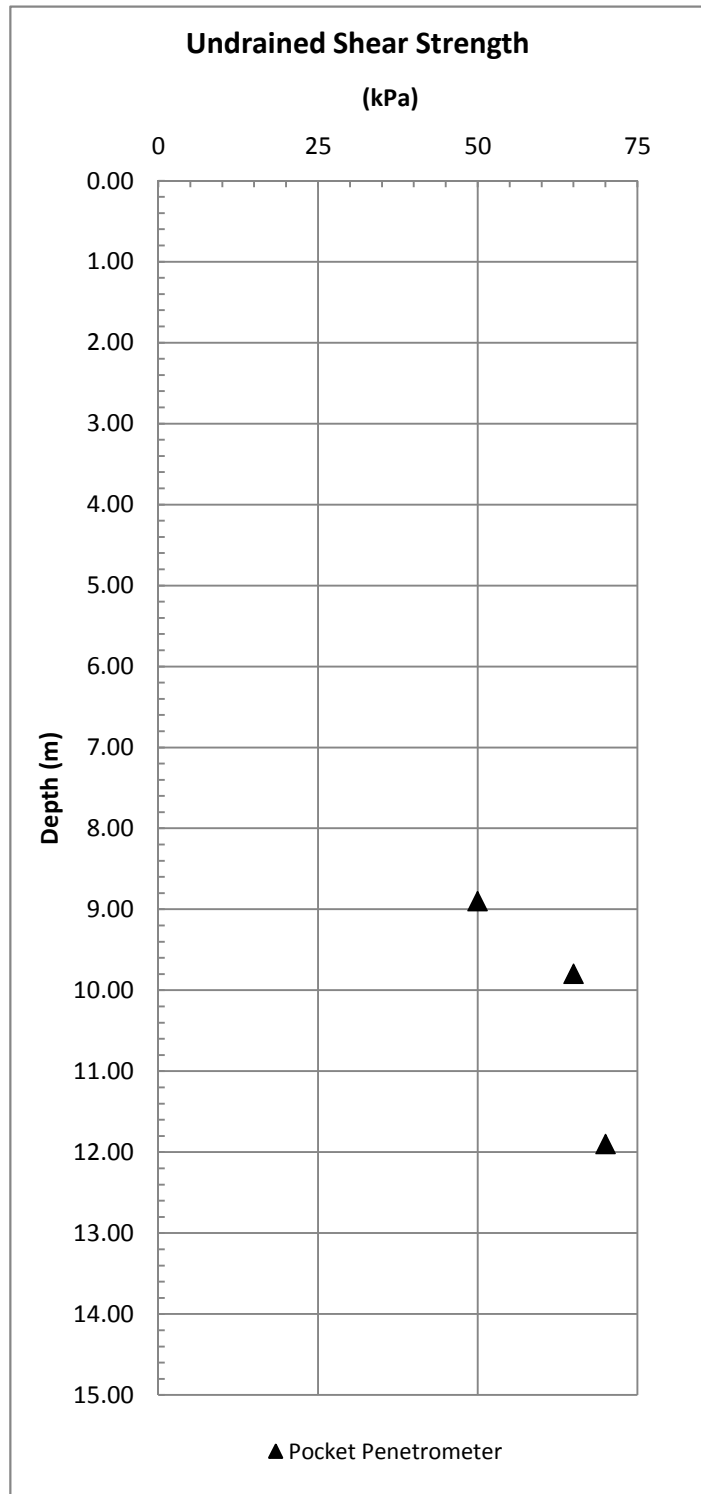
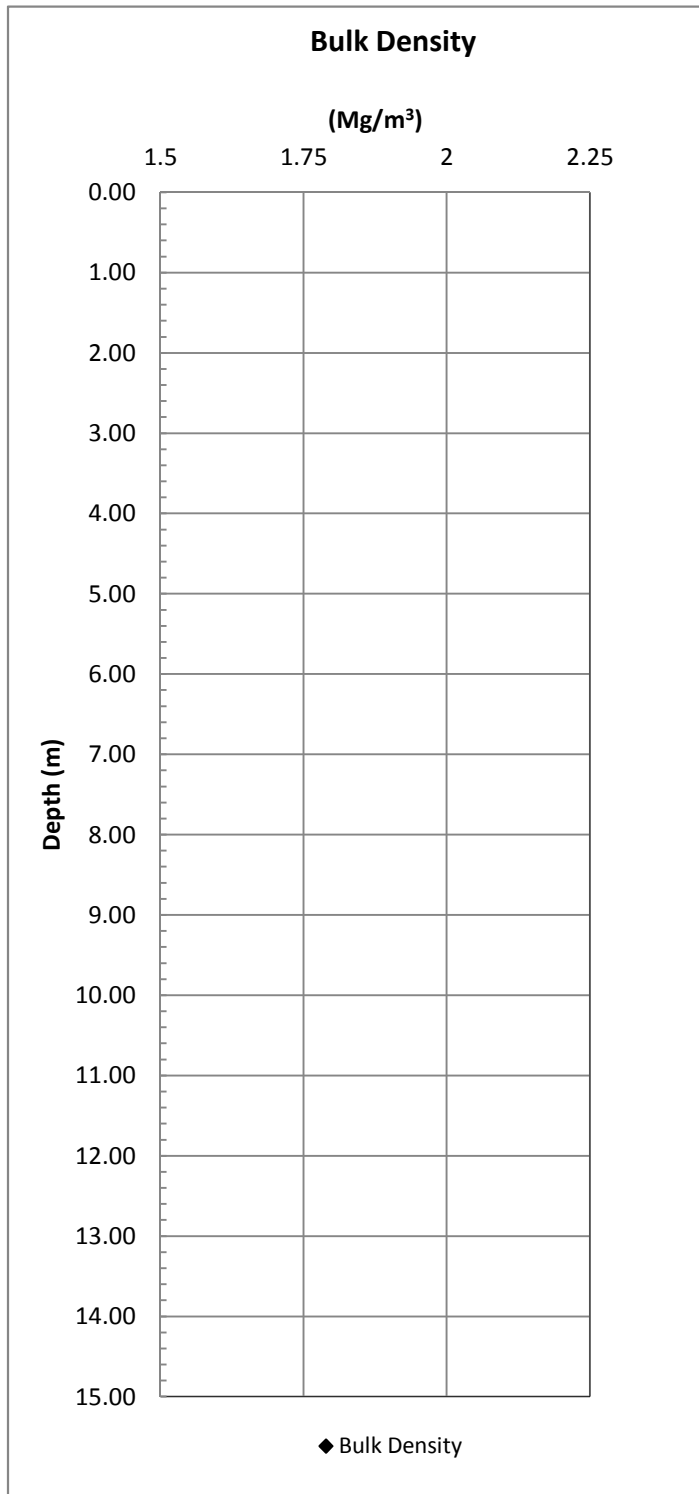


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Nayak 81-2

Figure C.3

10033 Beaufort Data

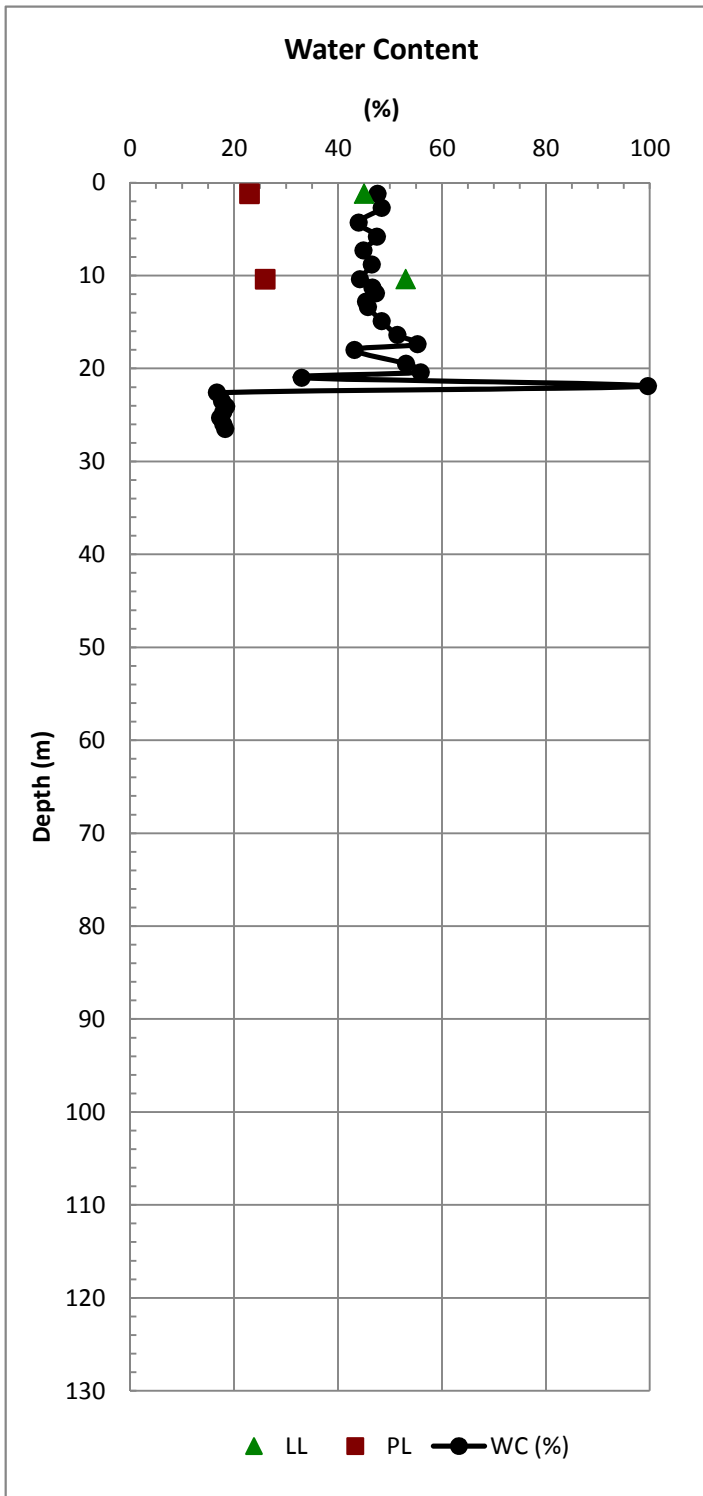
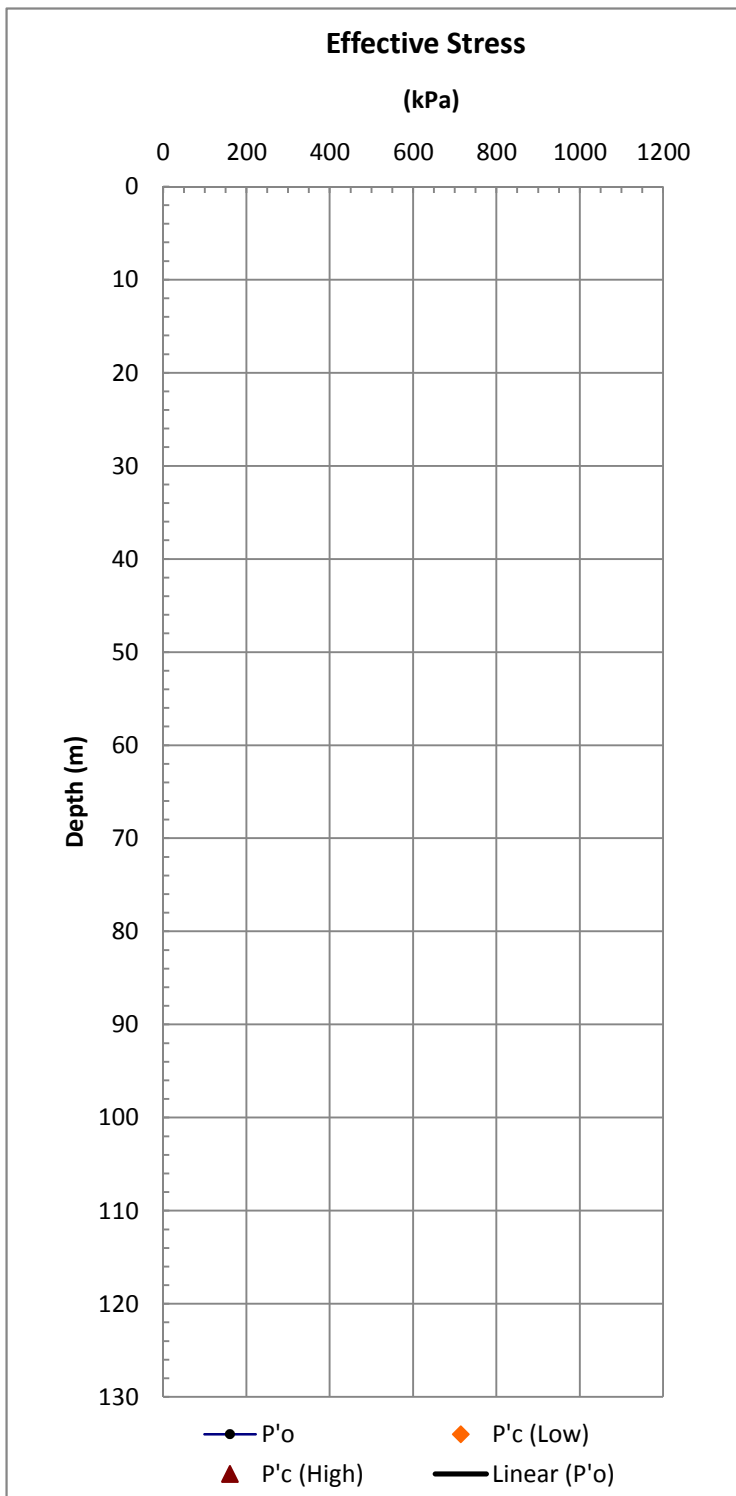
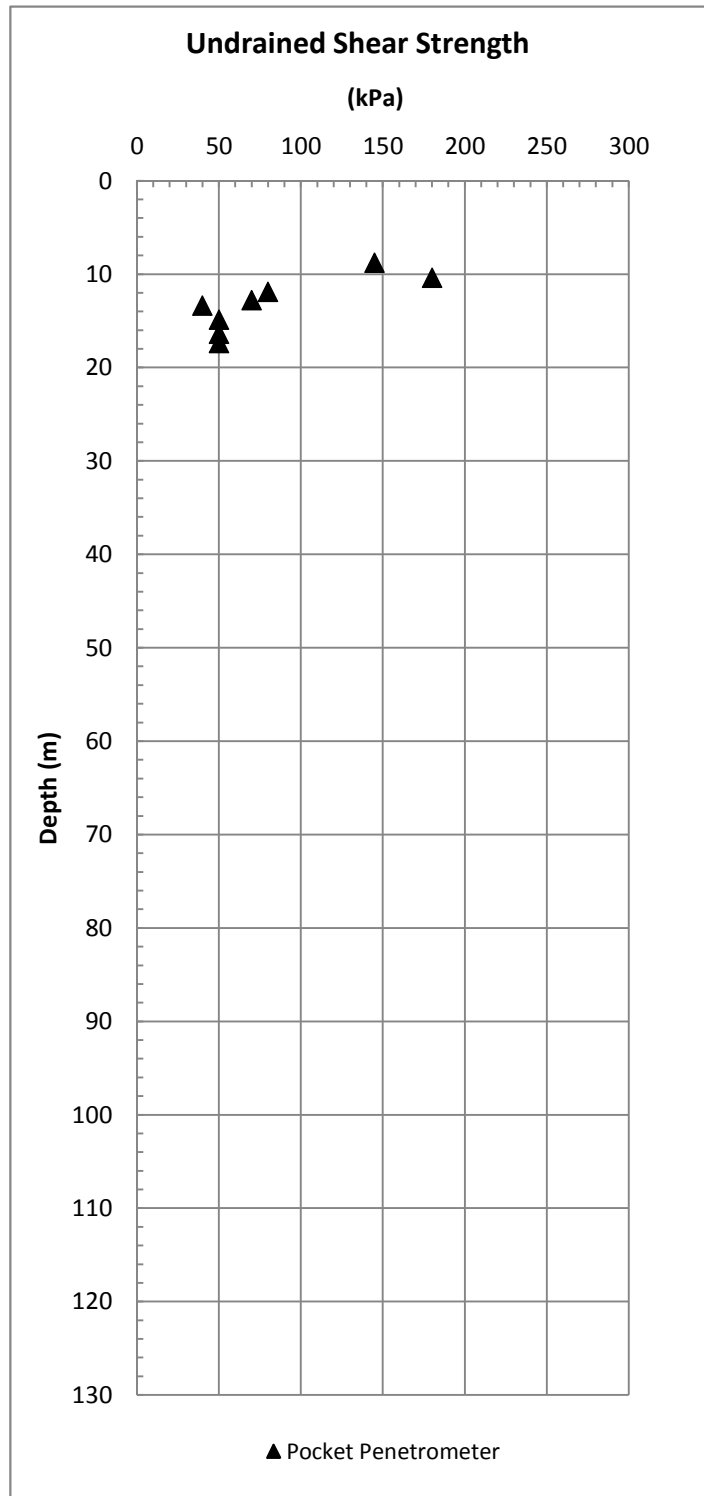
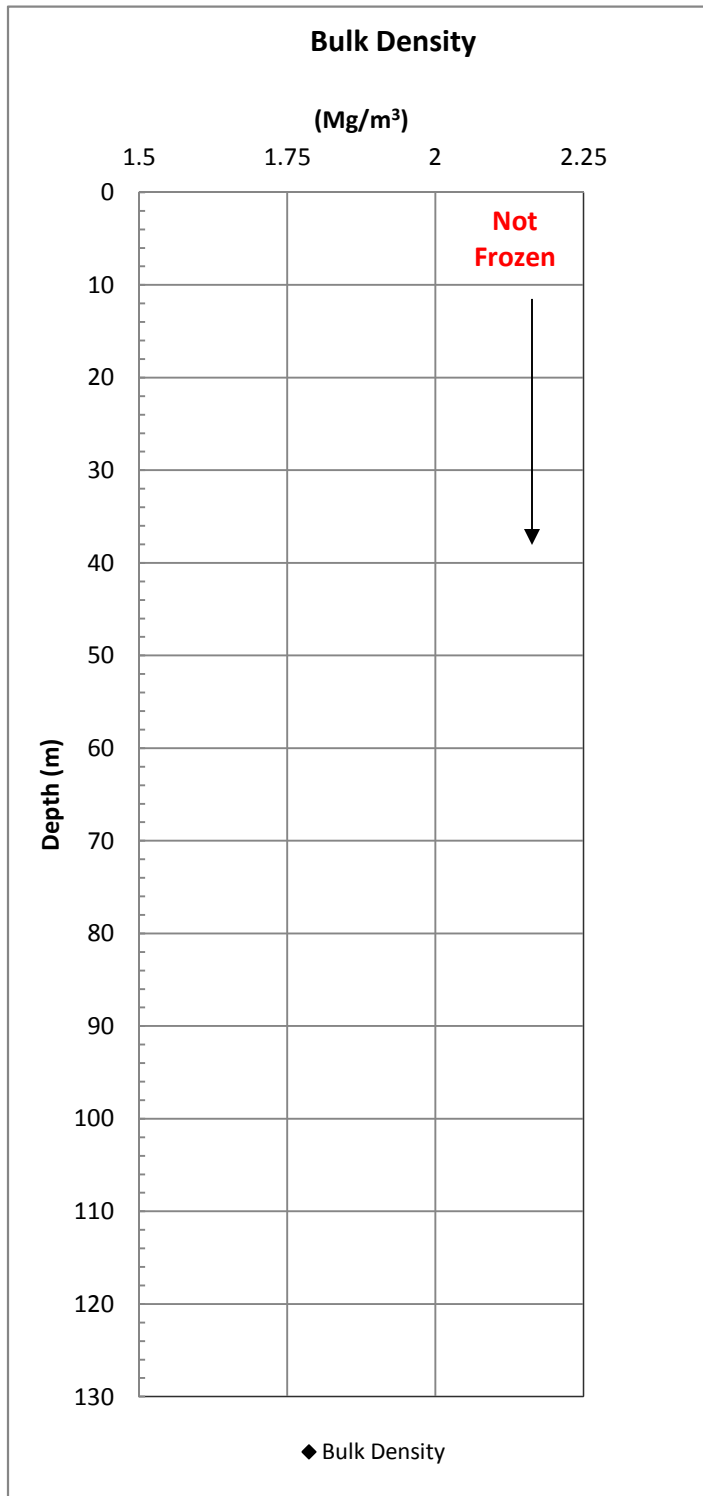


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Nayak 81-2

Figure C.3

10033 Beaufort Data

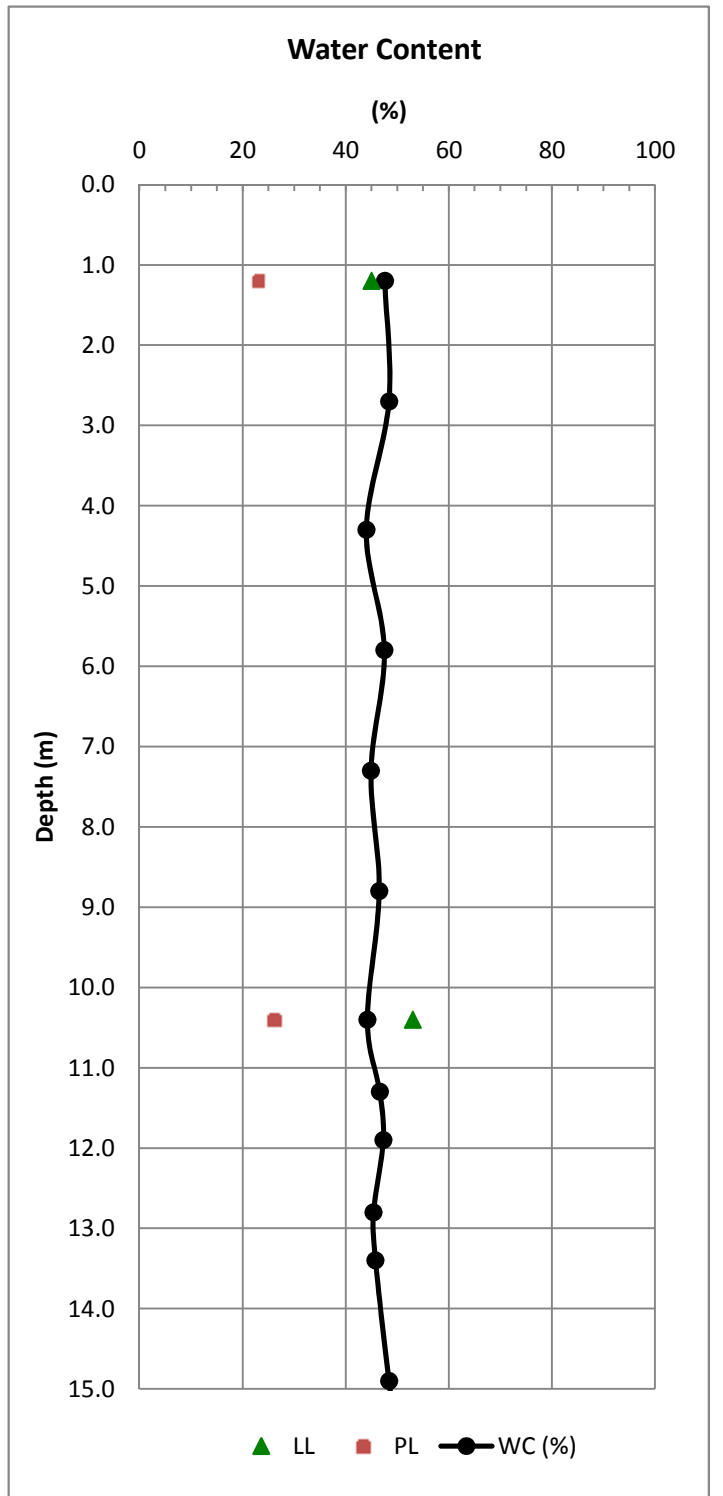
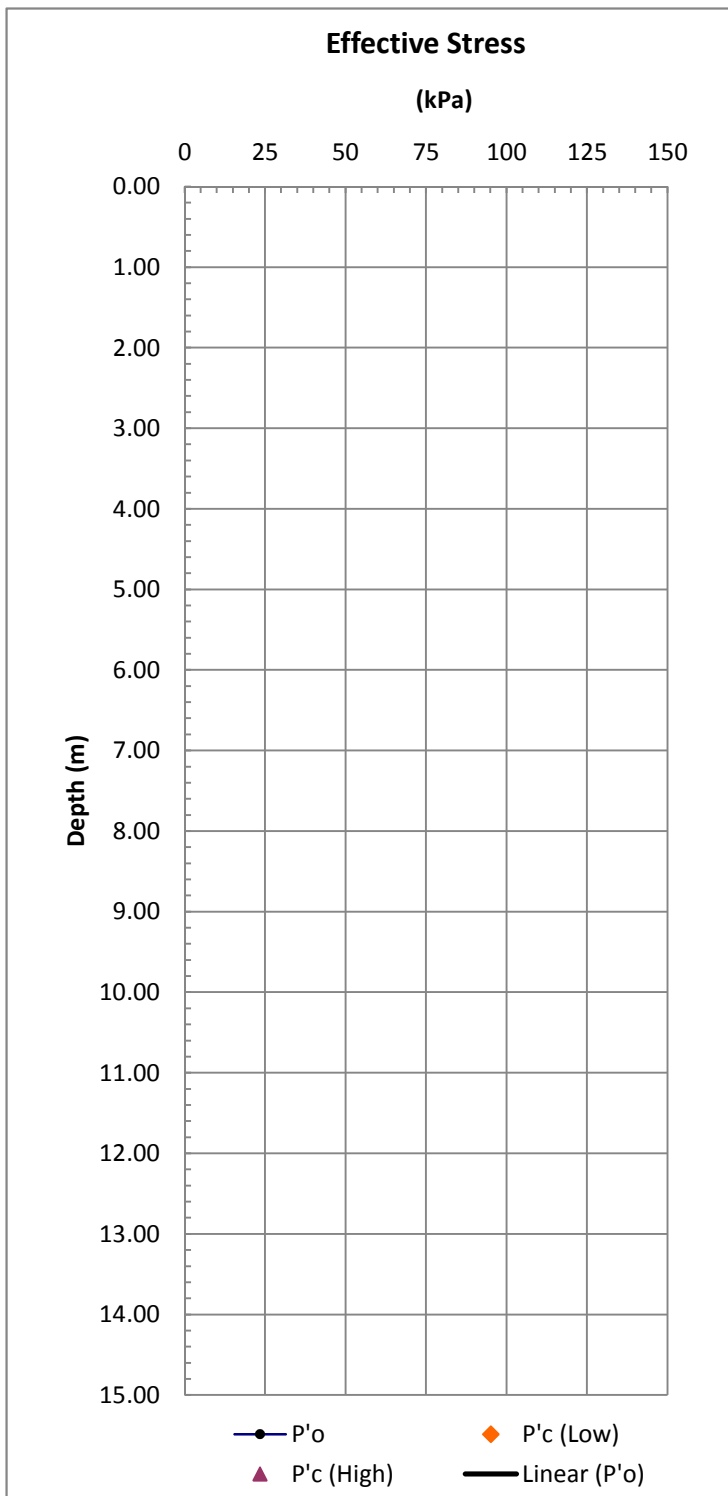
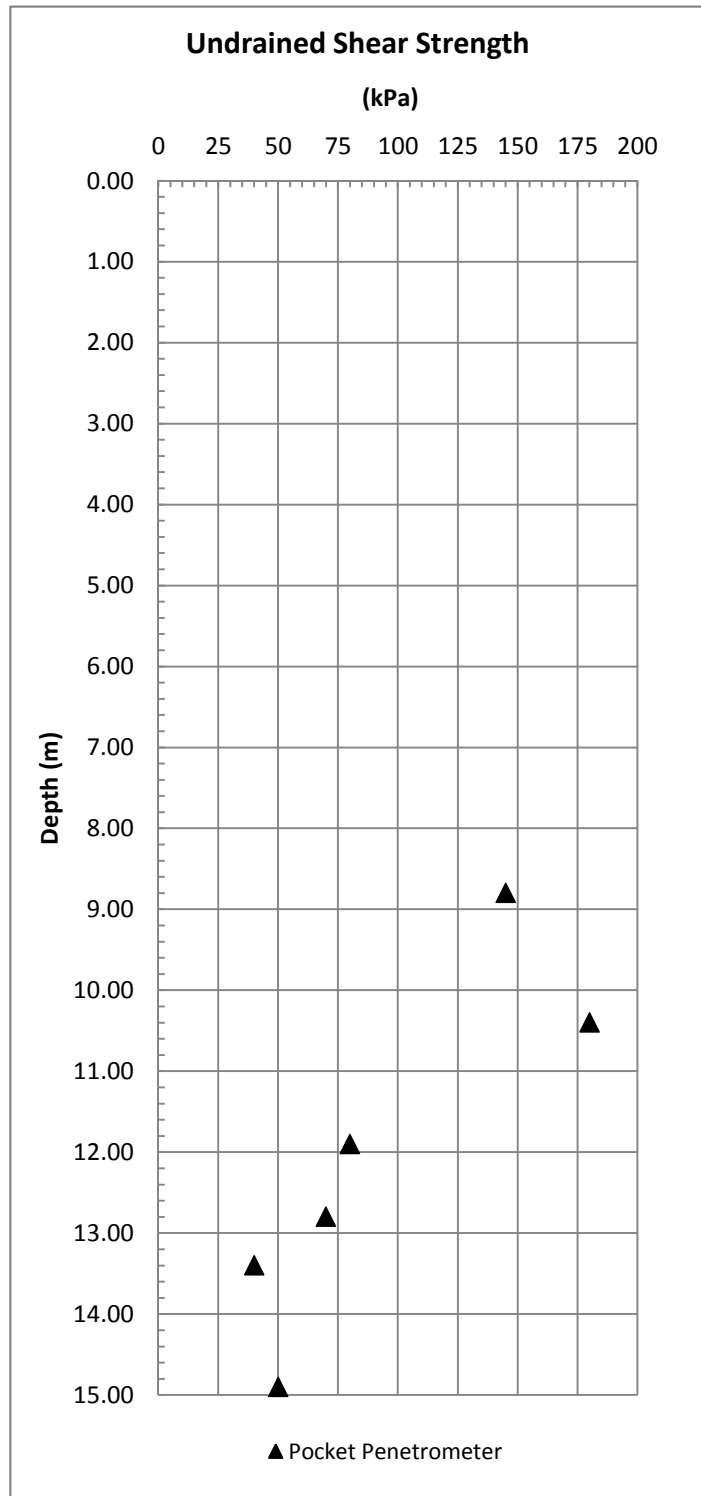
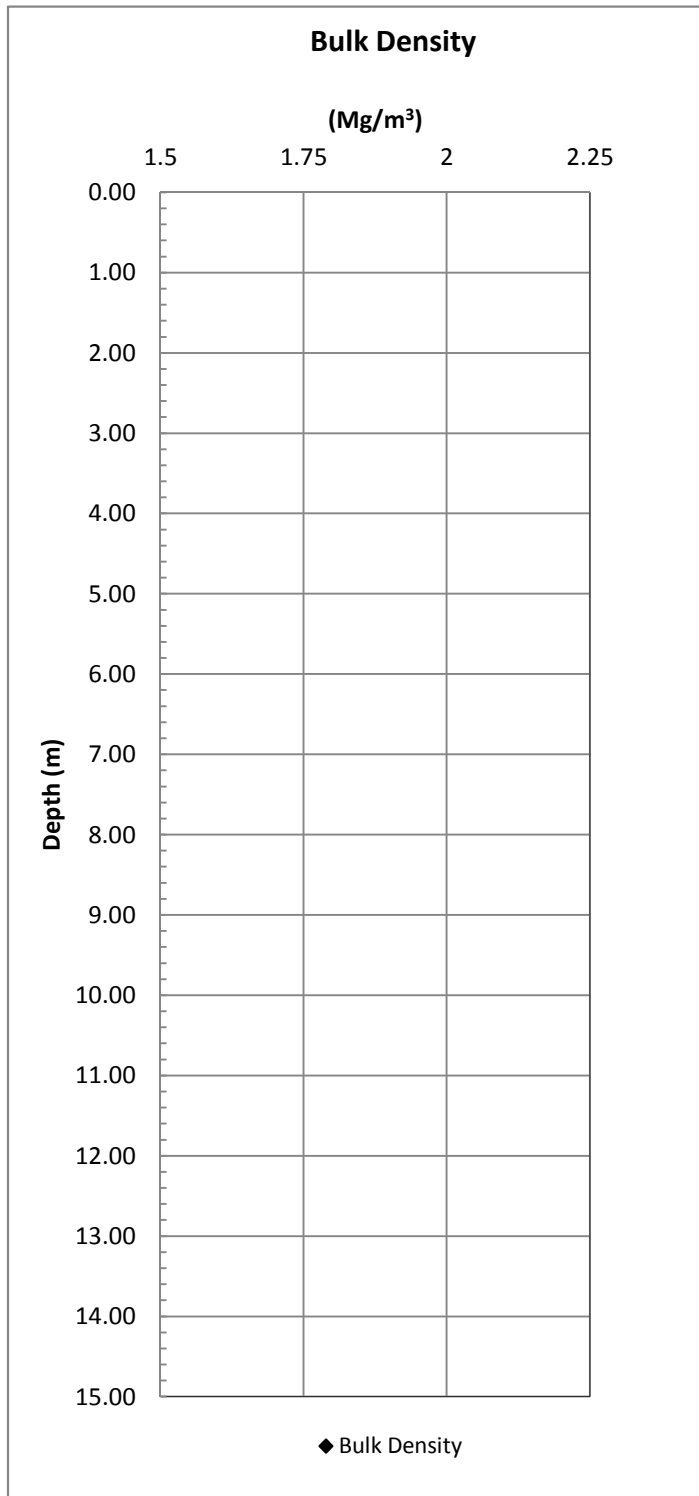


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Nayak 81-3

Figure C.3

10033 Beaufort Data

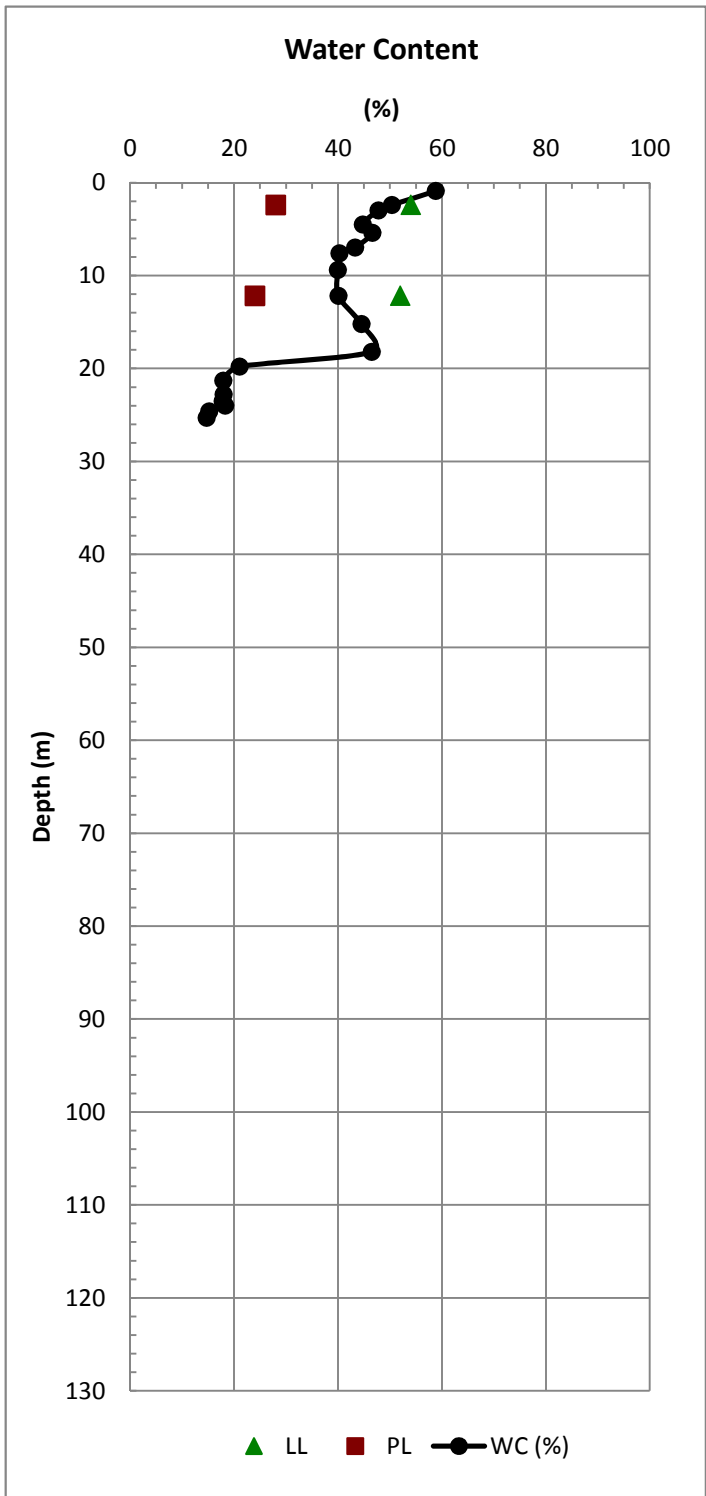
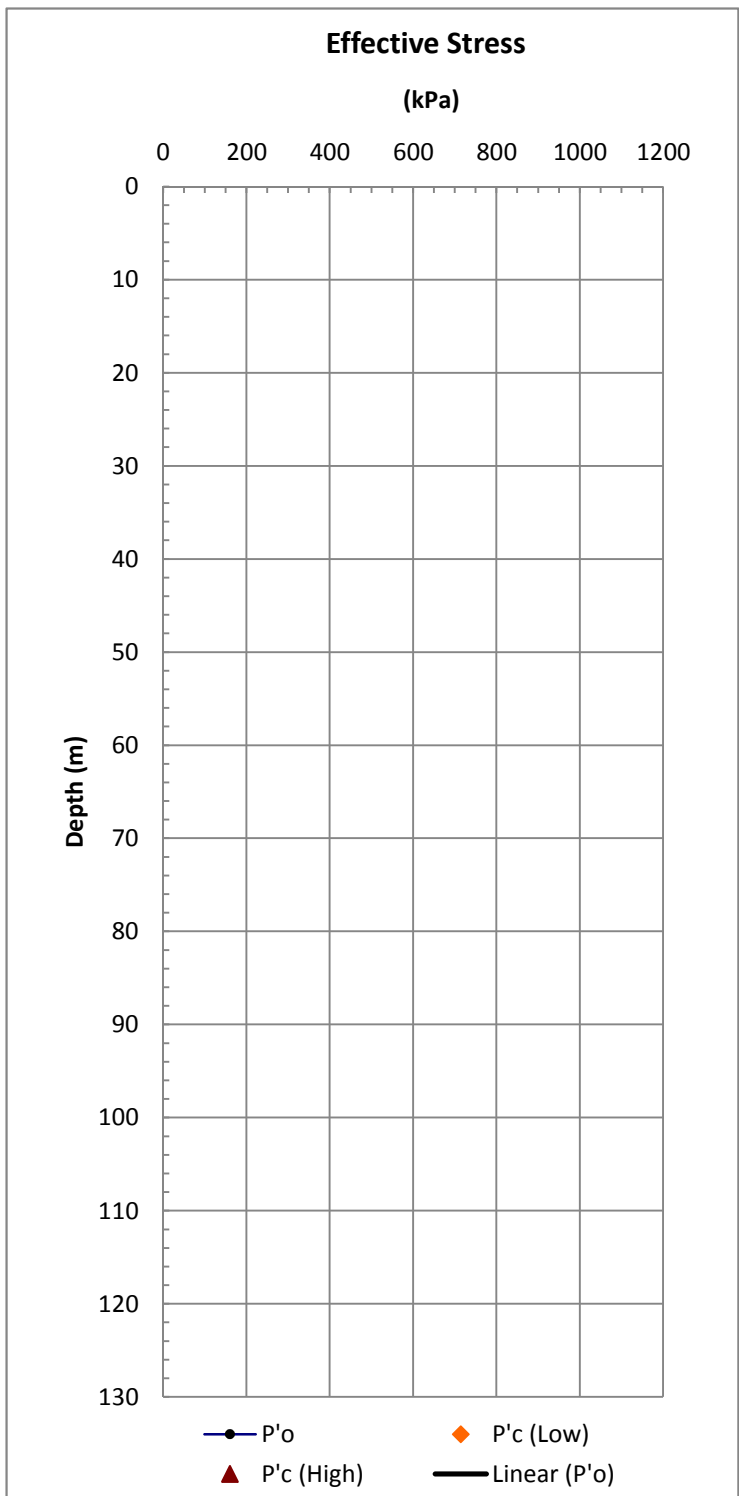
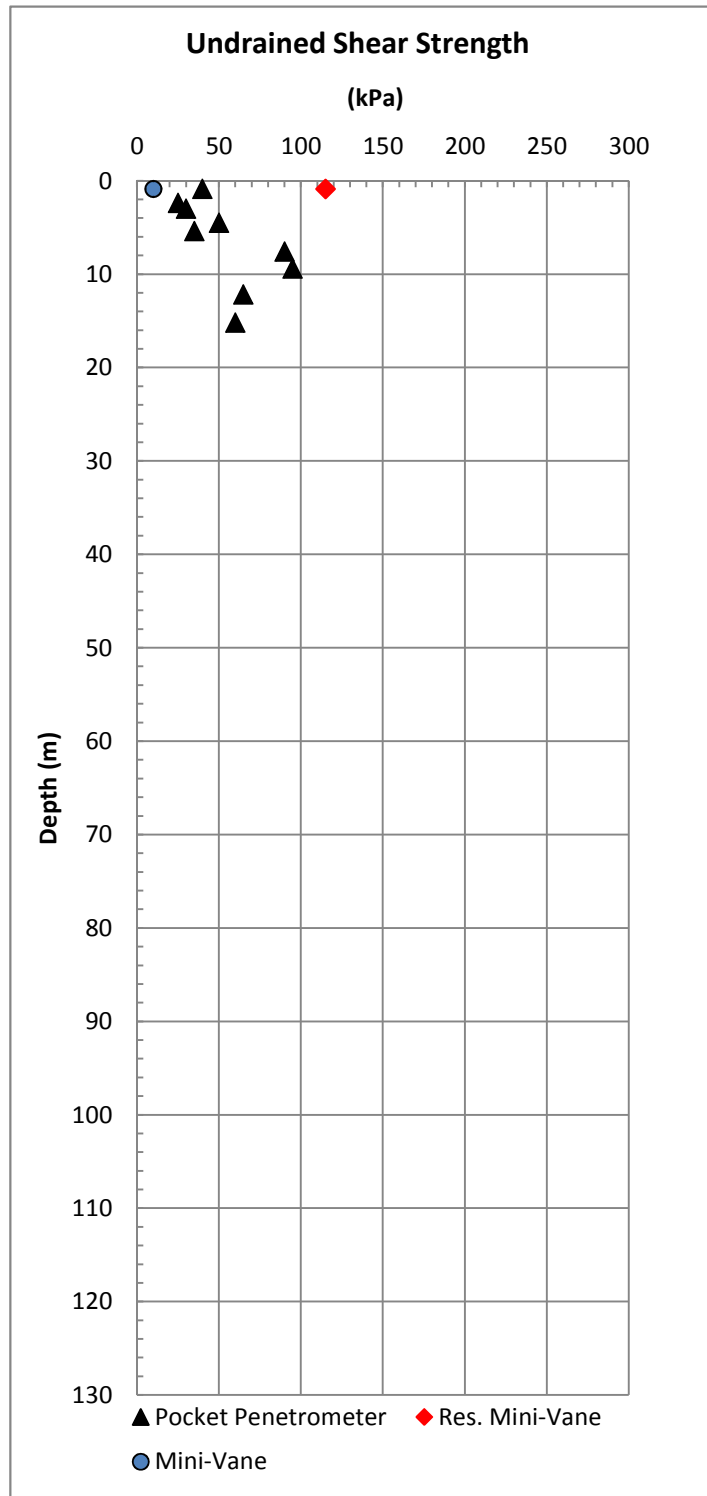
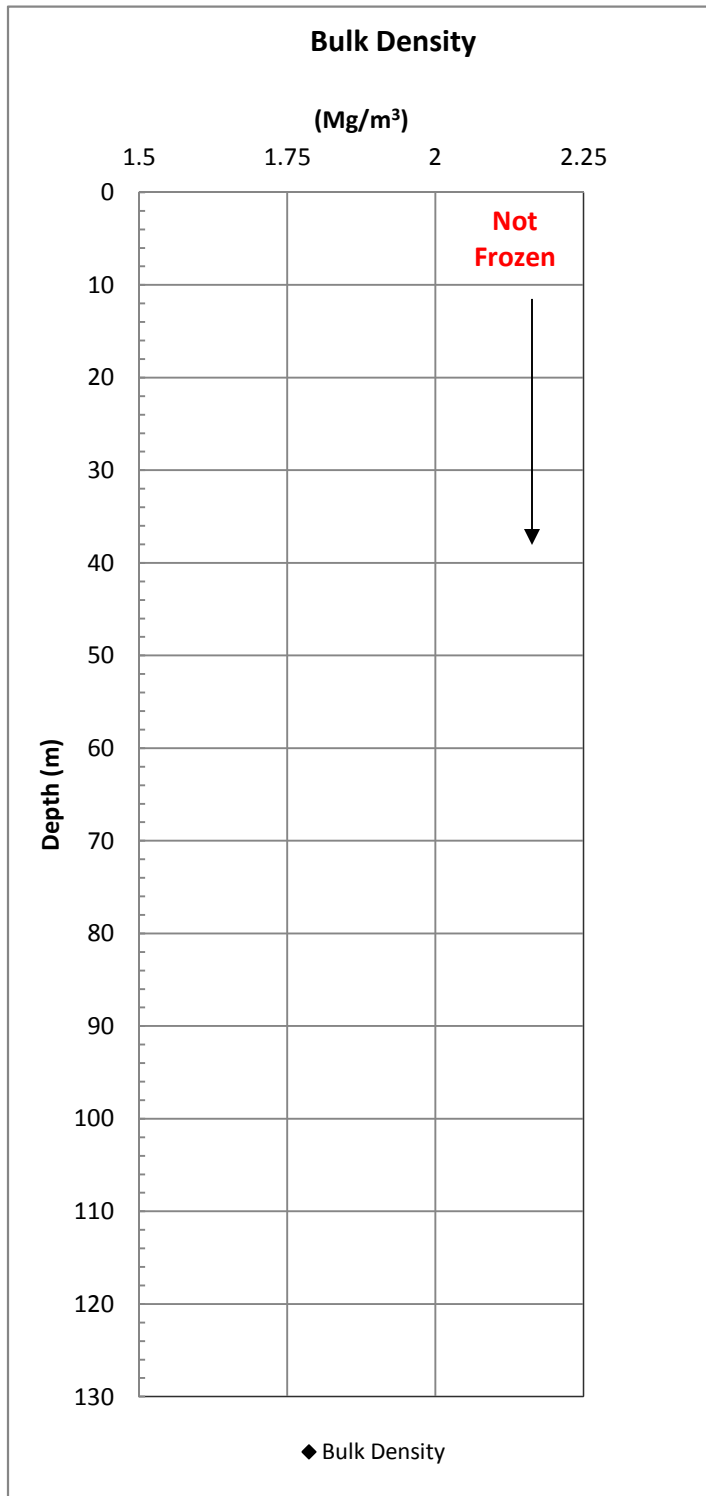


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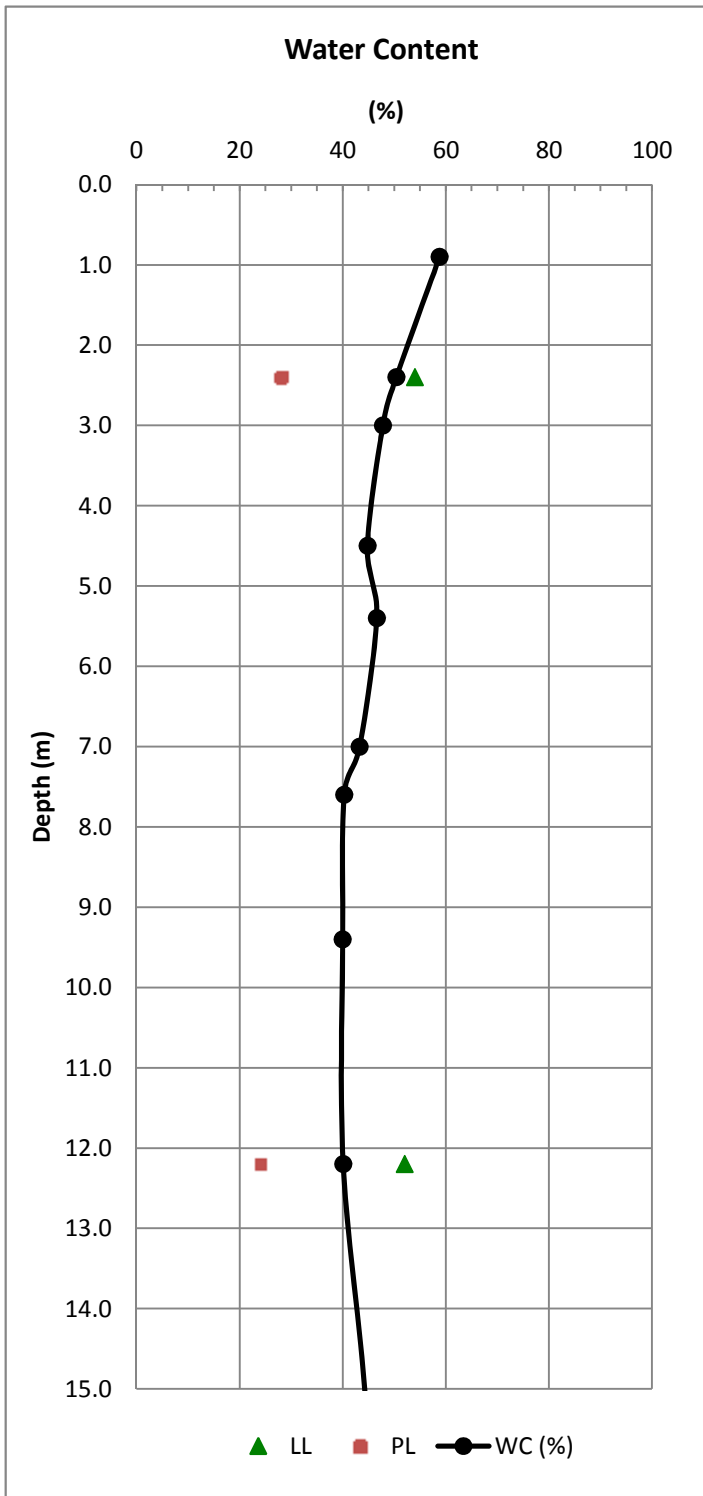
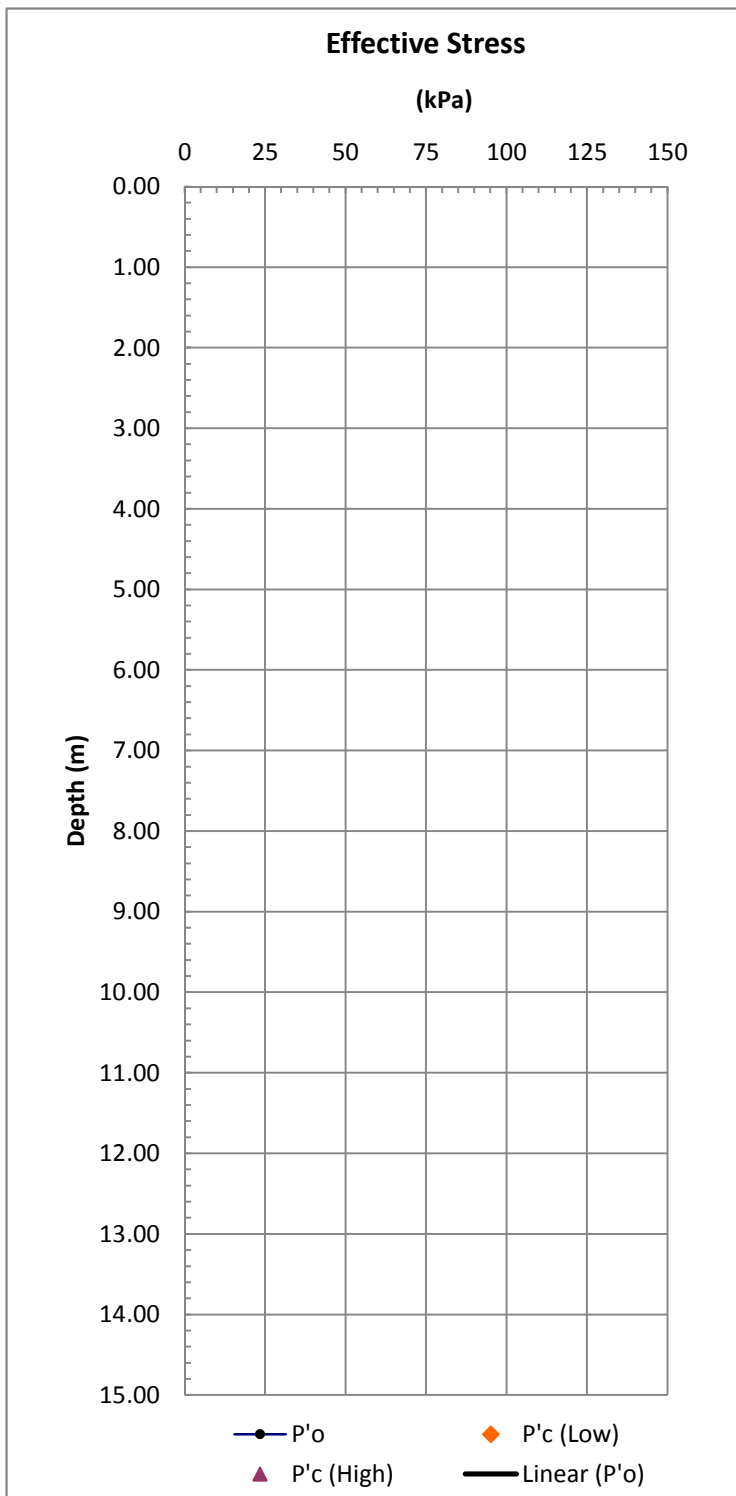
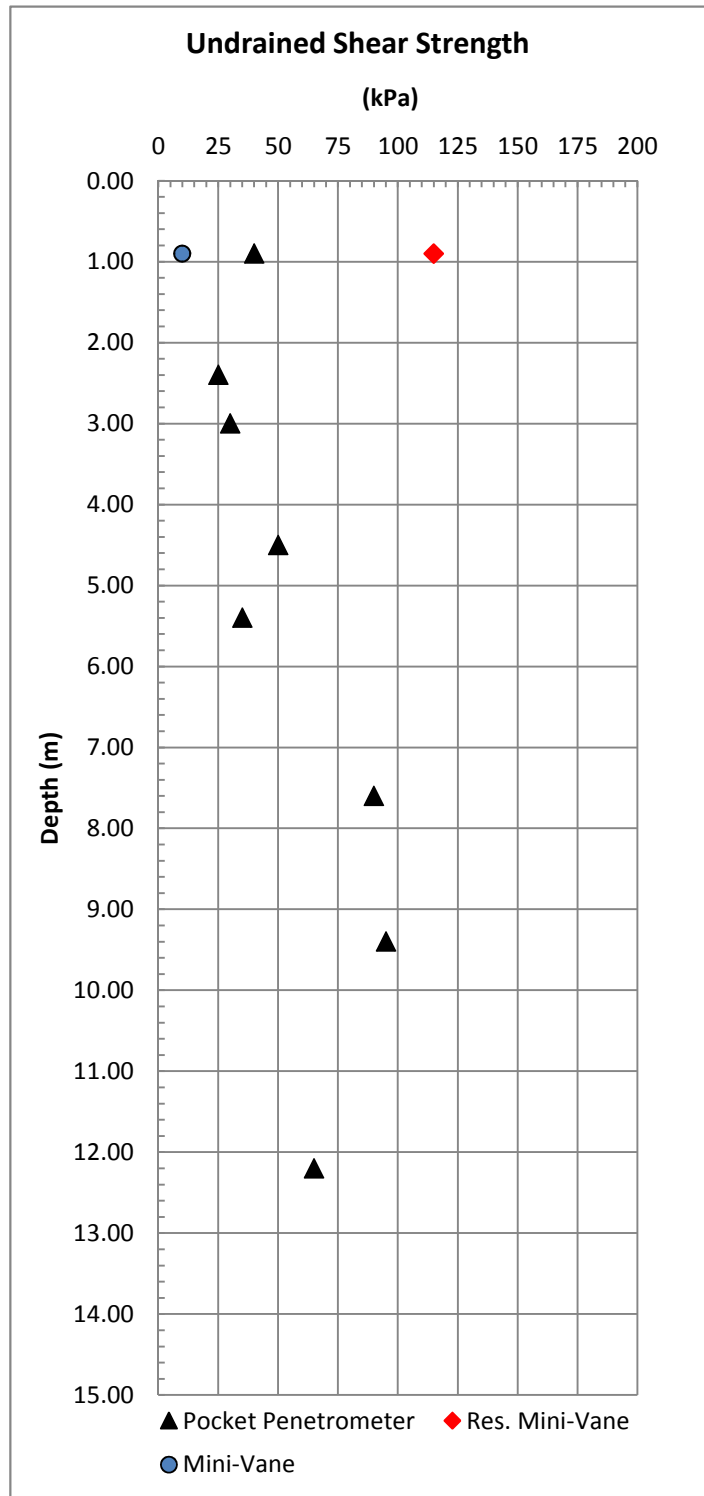
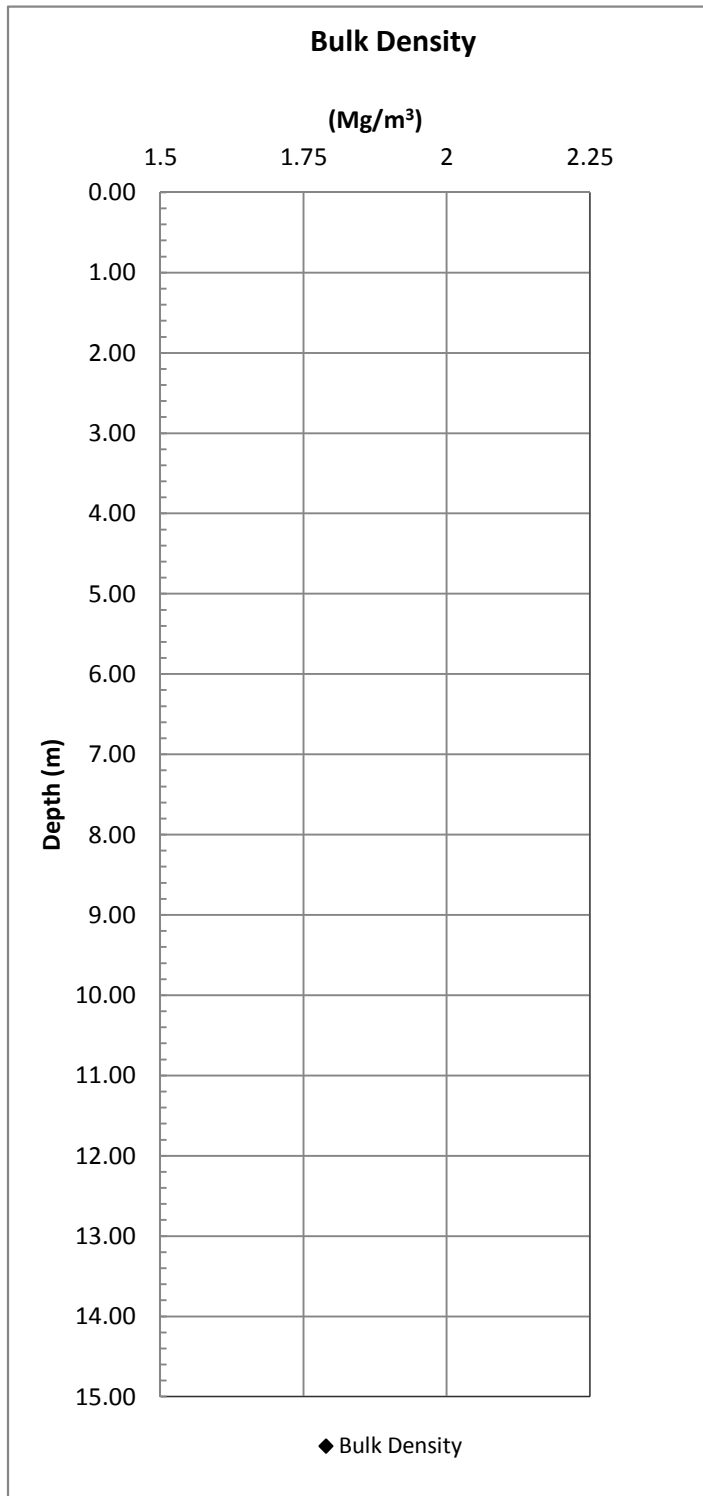
Figure C.3

10033 Beaufort Data



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Nayak 81-7
Figure C.3
10033 Beaufort Data

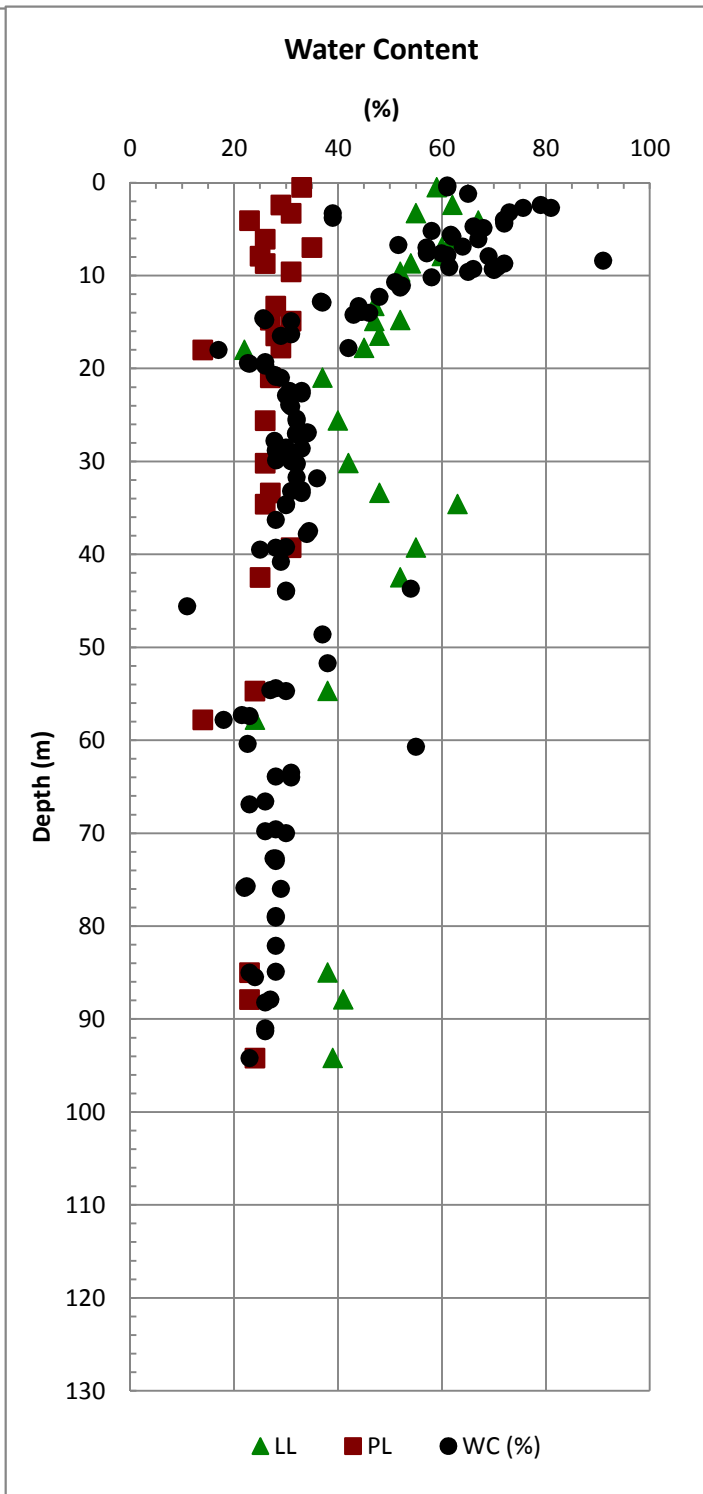
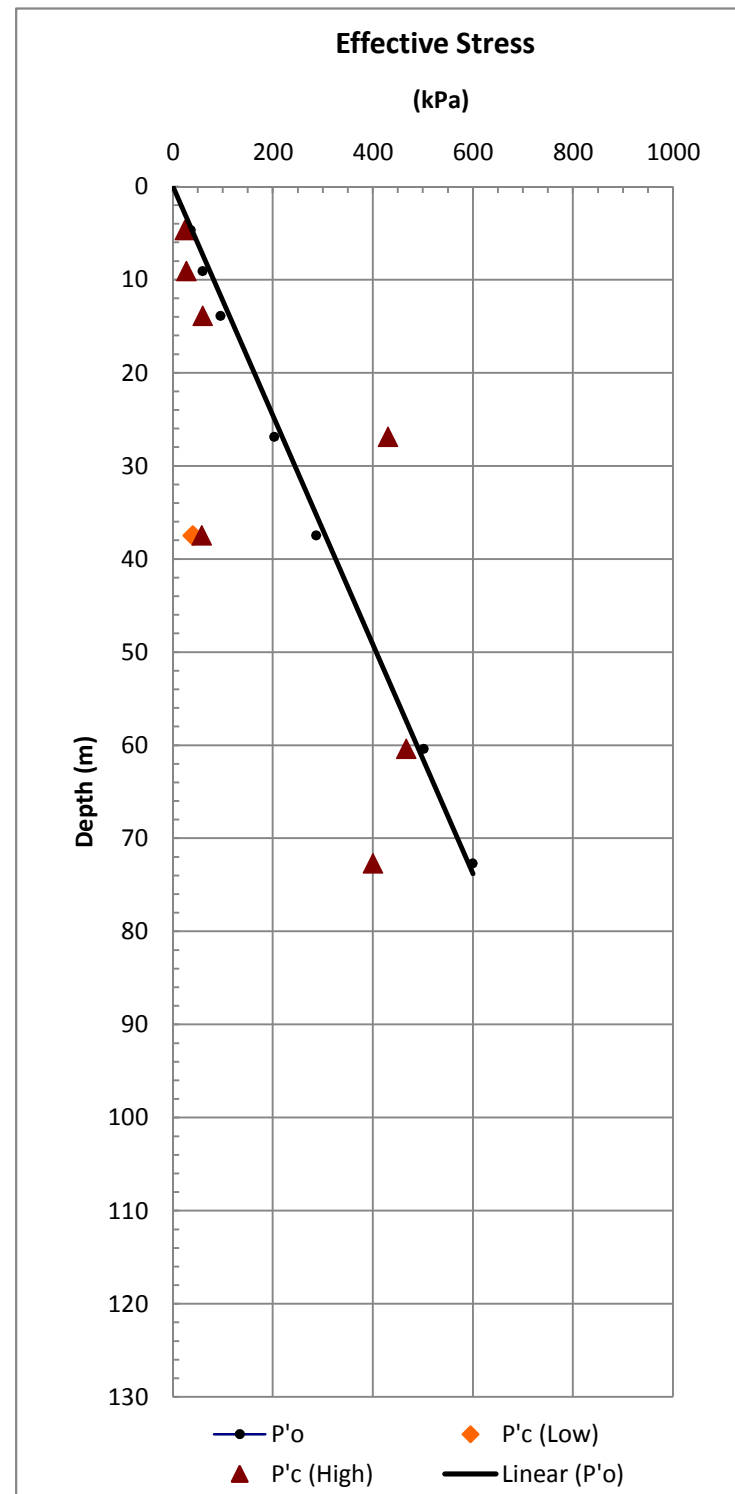
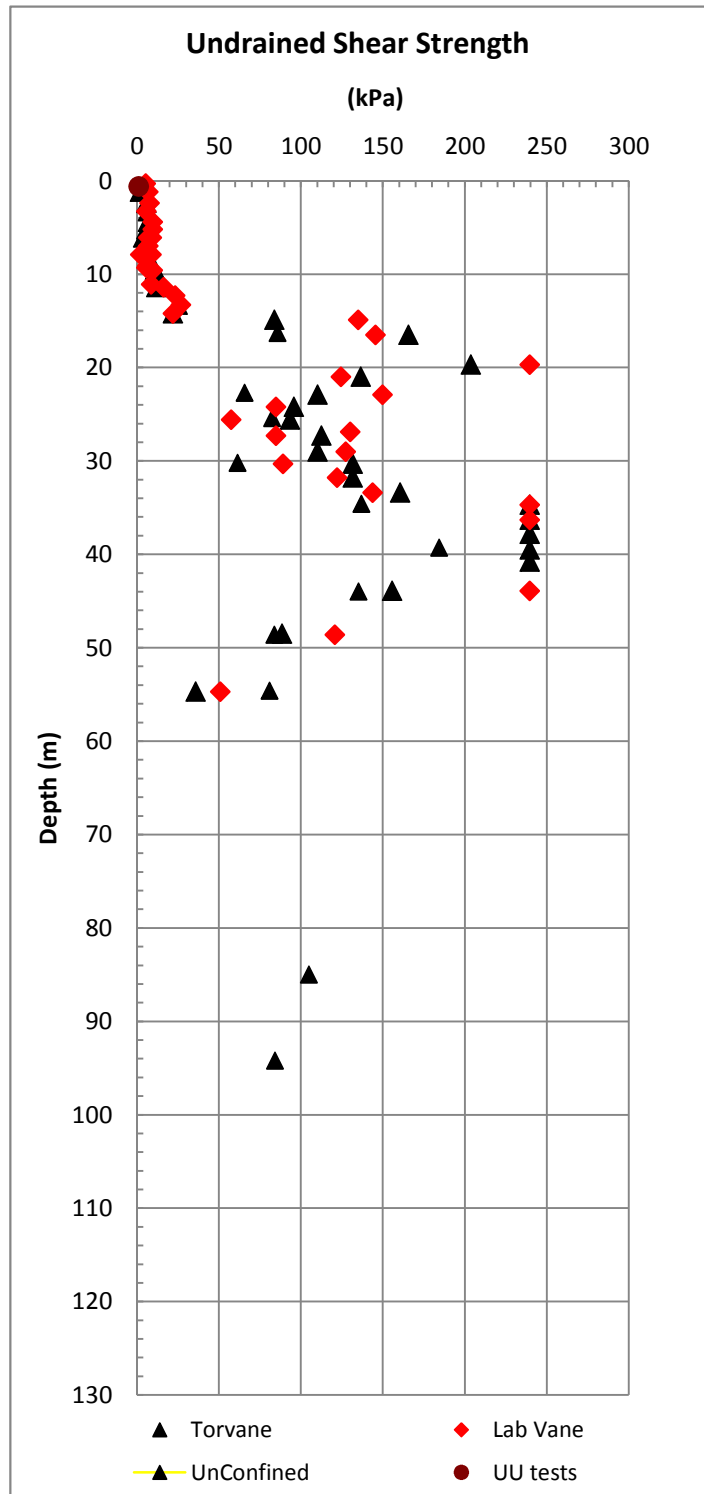
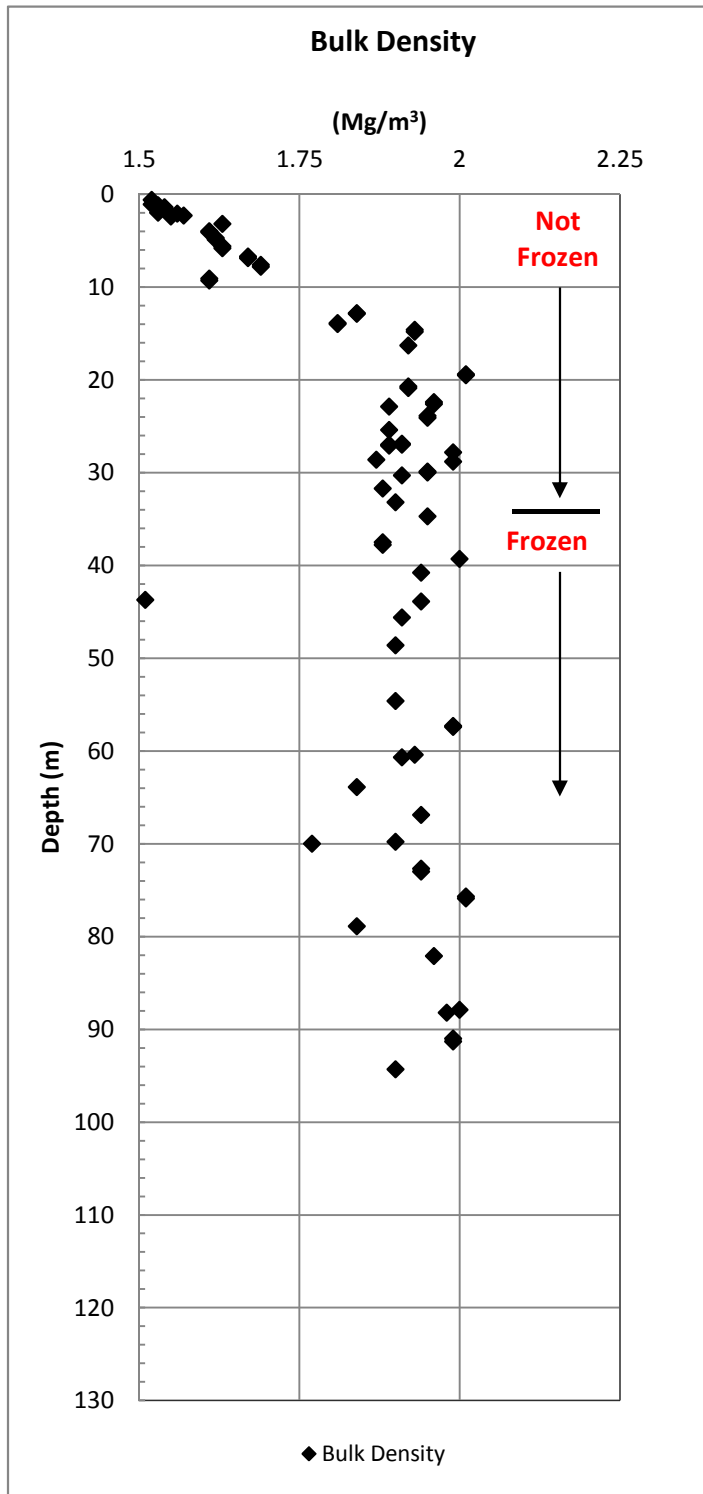


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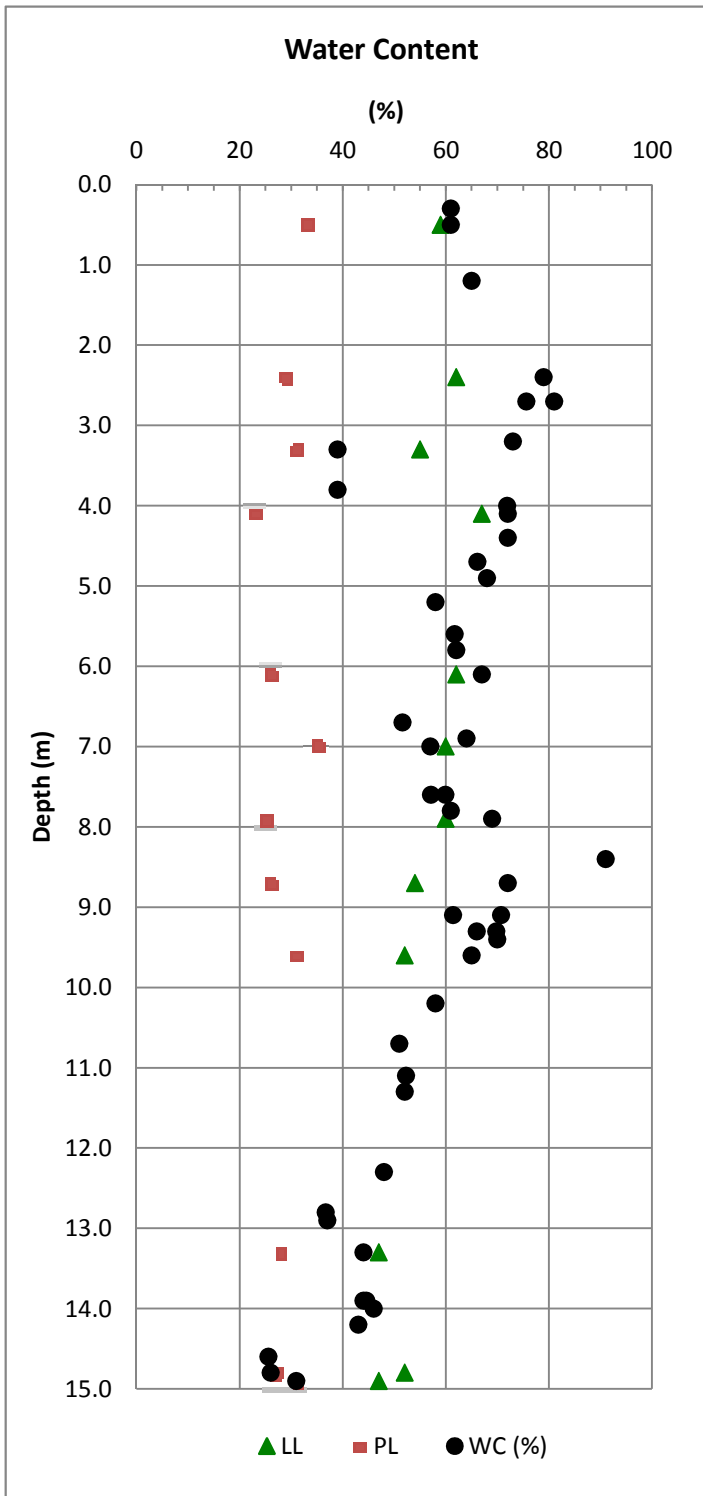
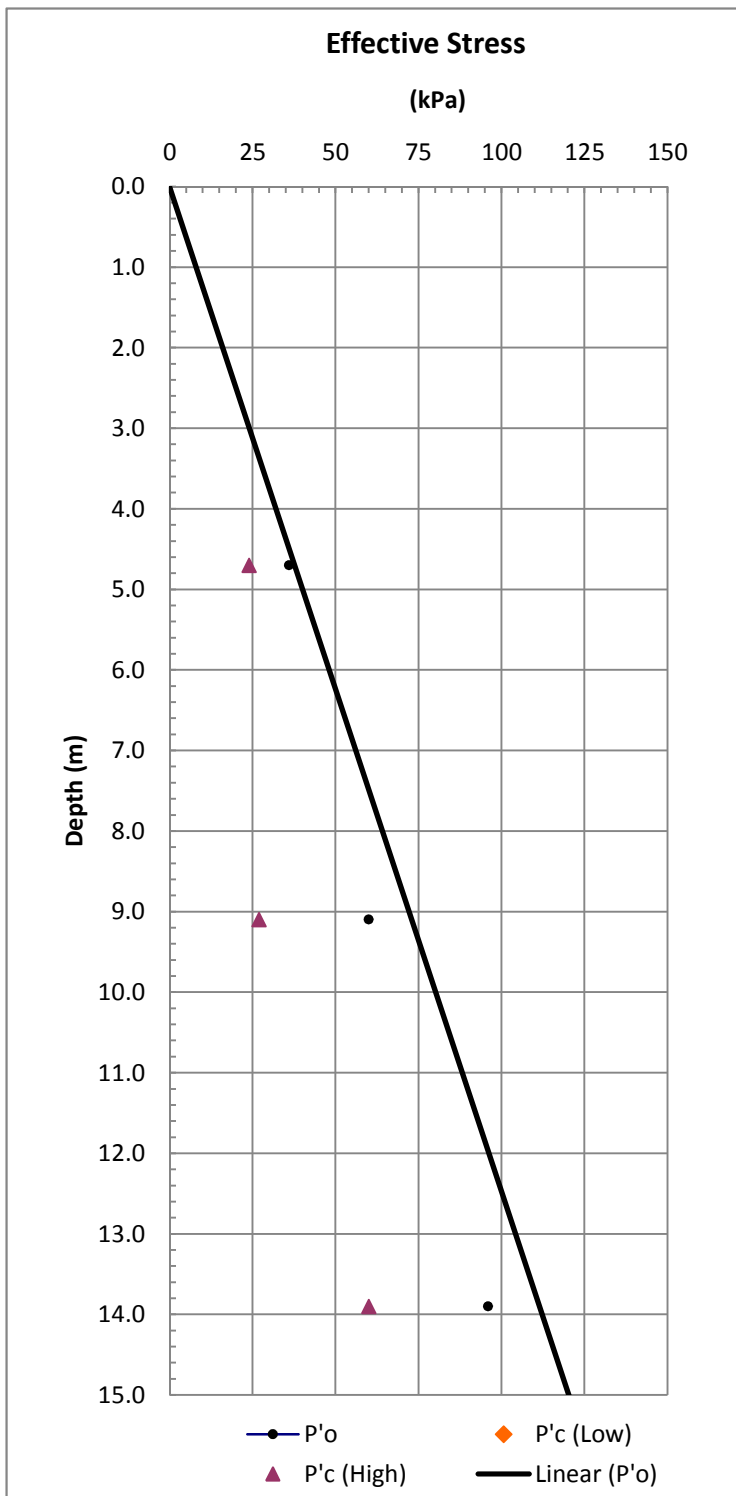
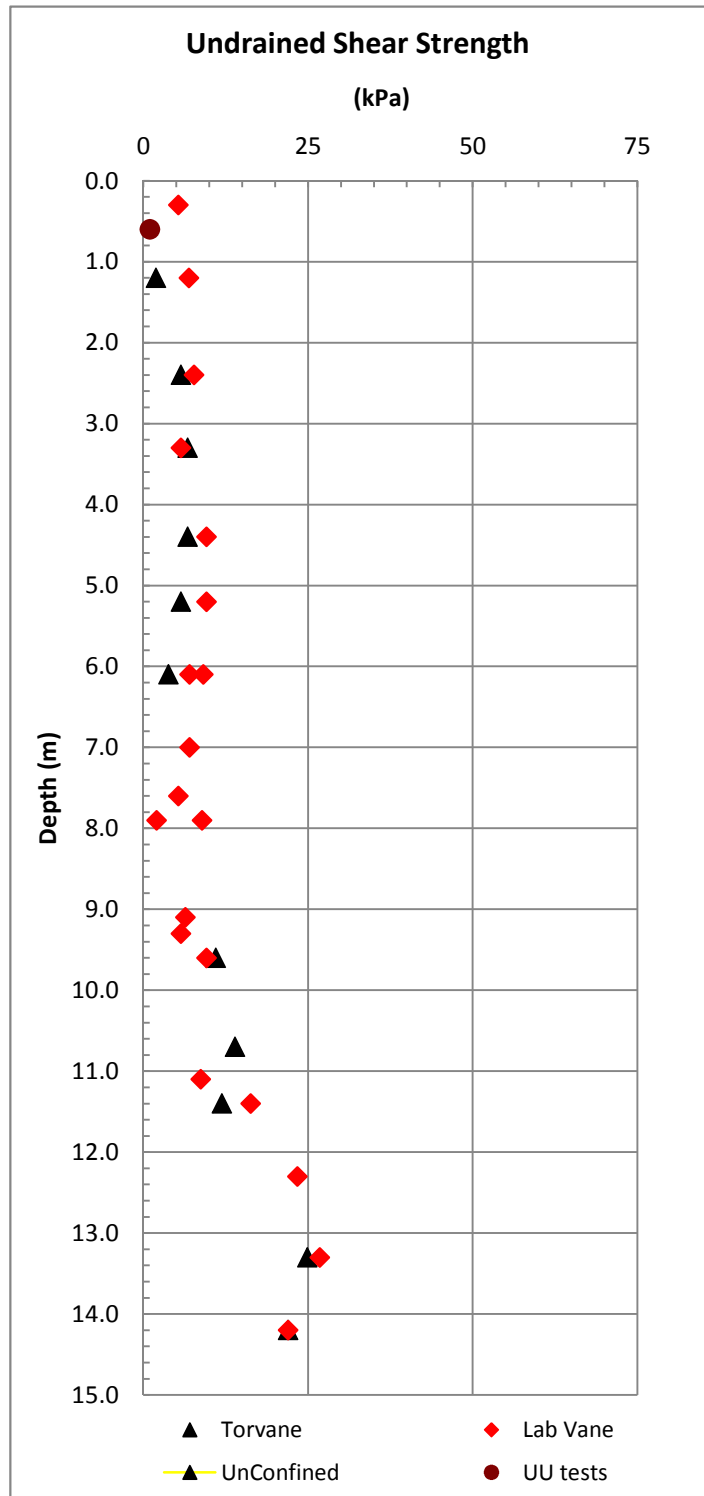
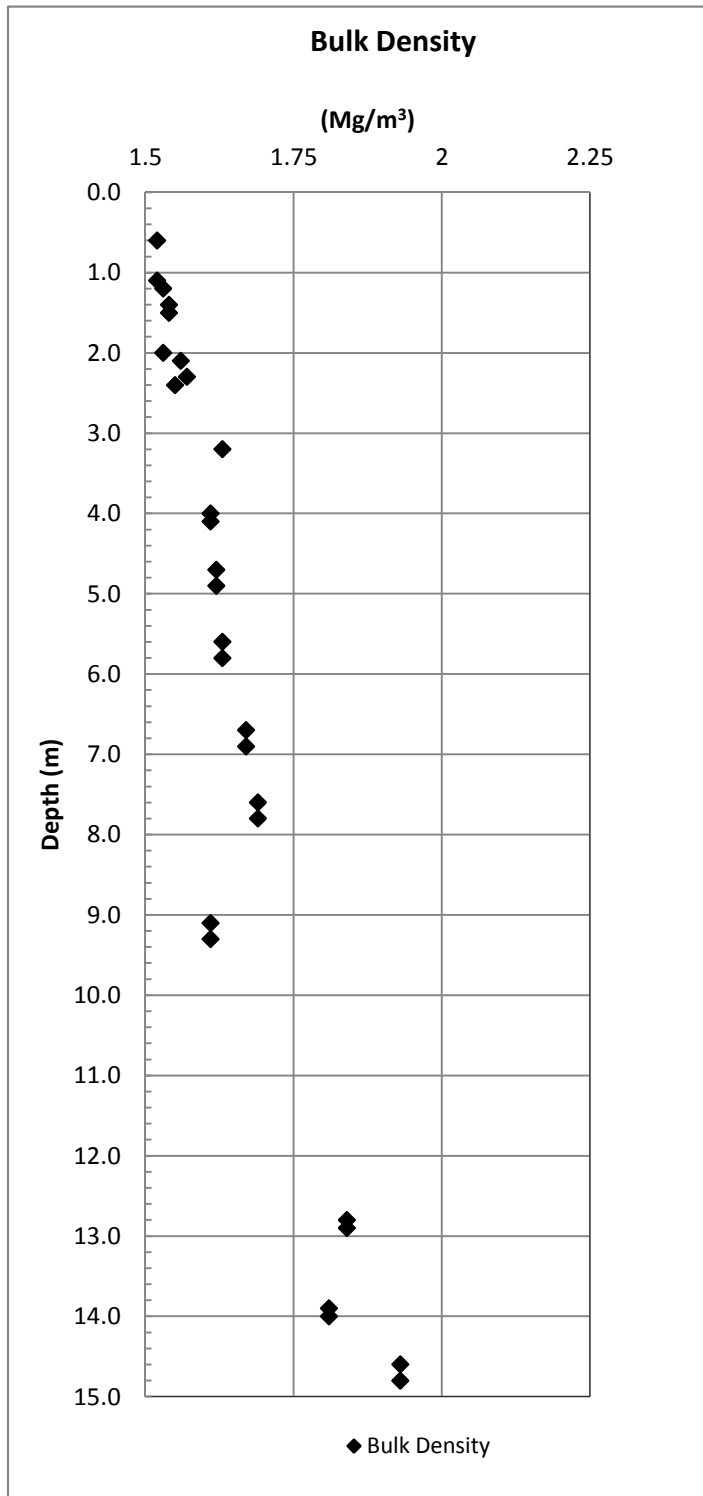


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Nektoratik H-28 Boring 8: Deep

Figure C.3

10033 Beaufort Data

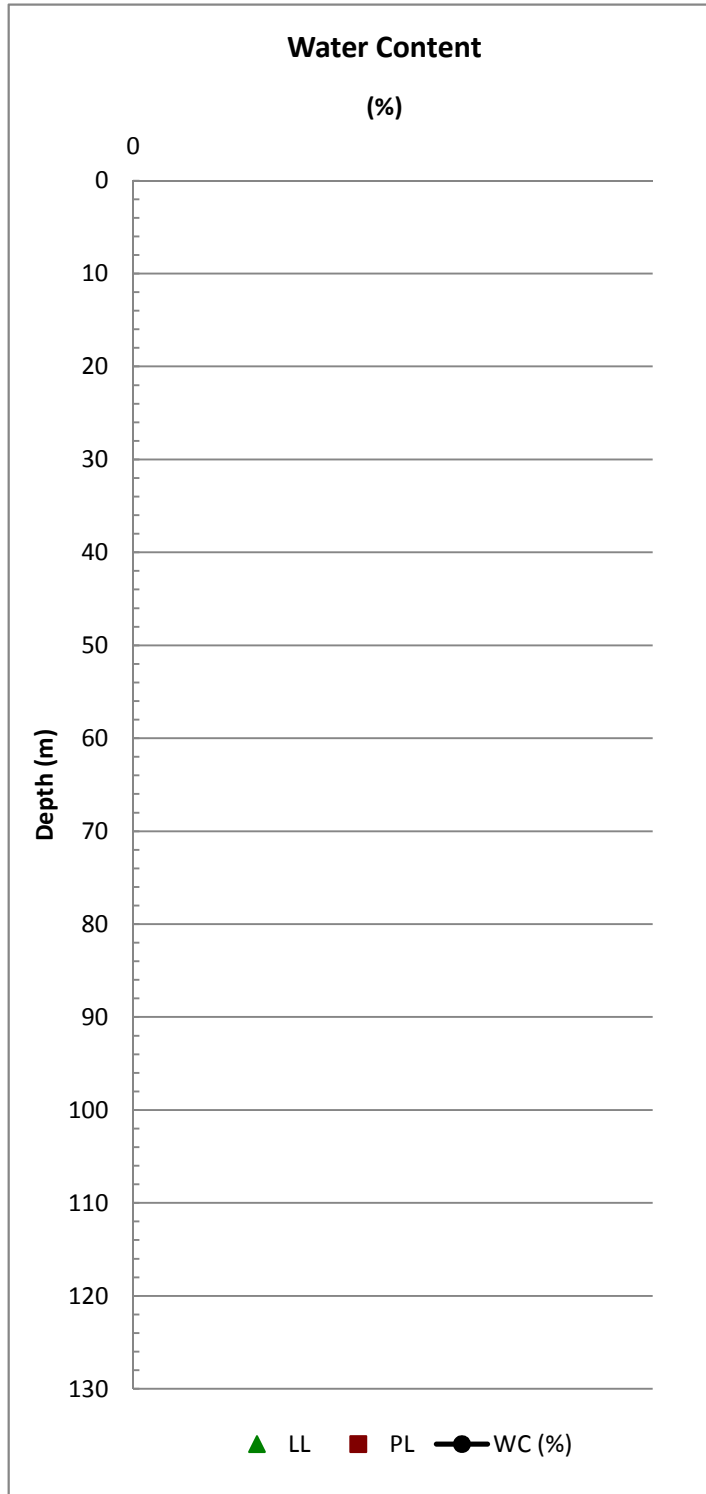
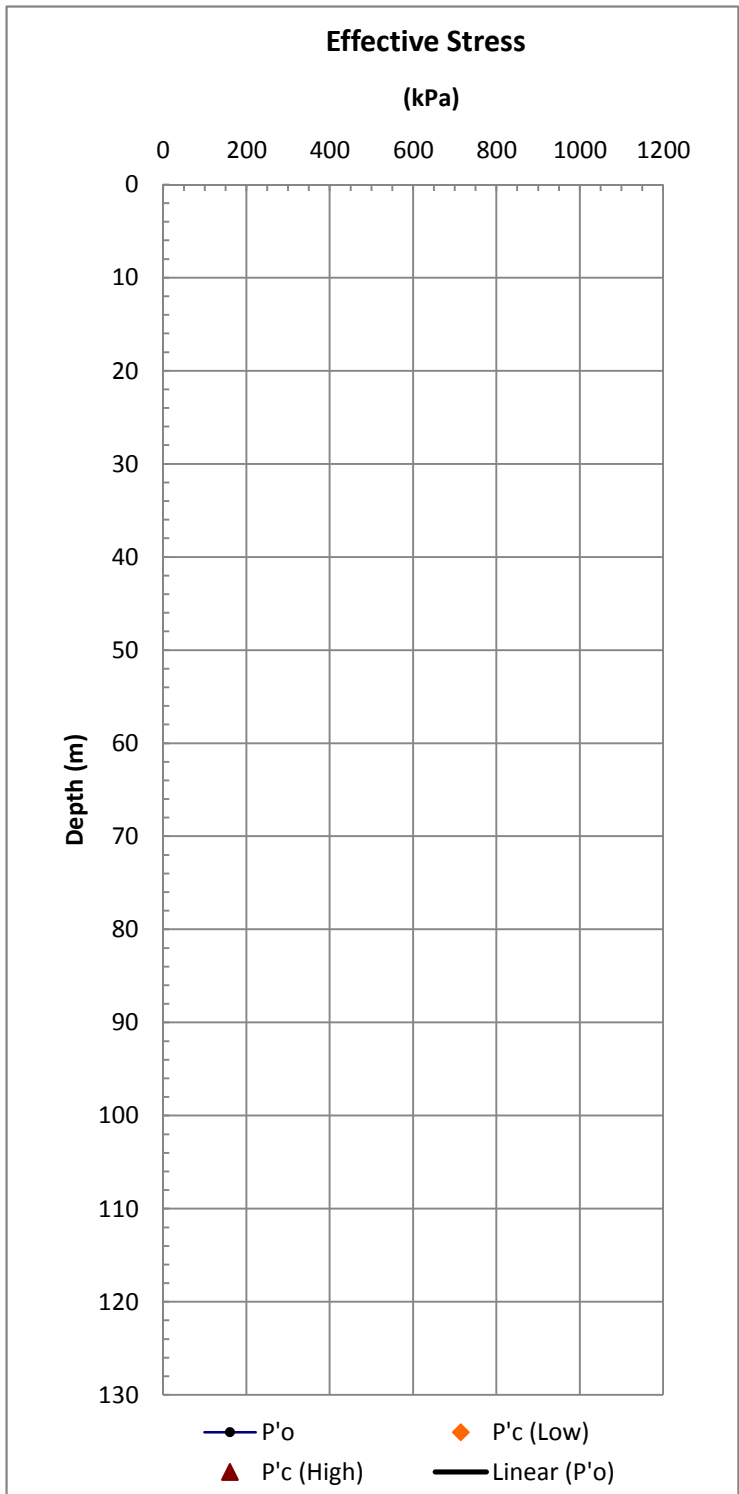
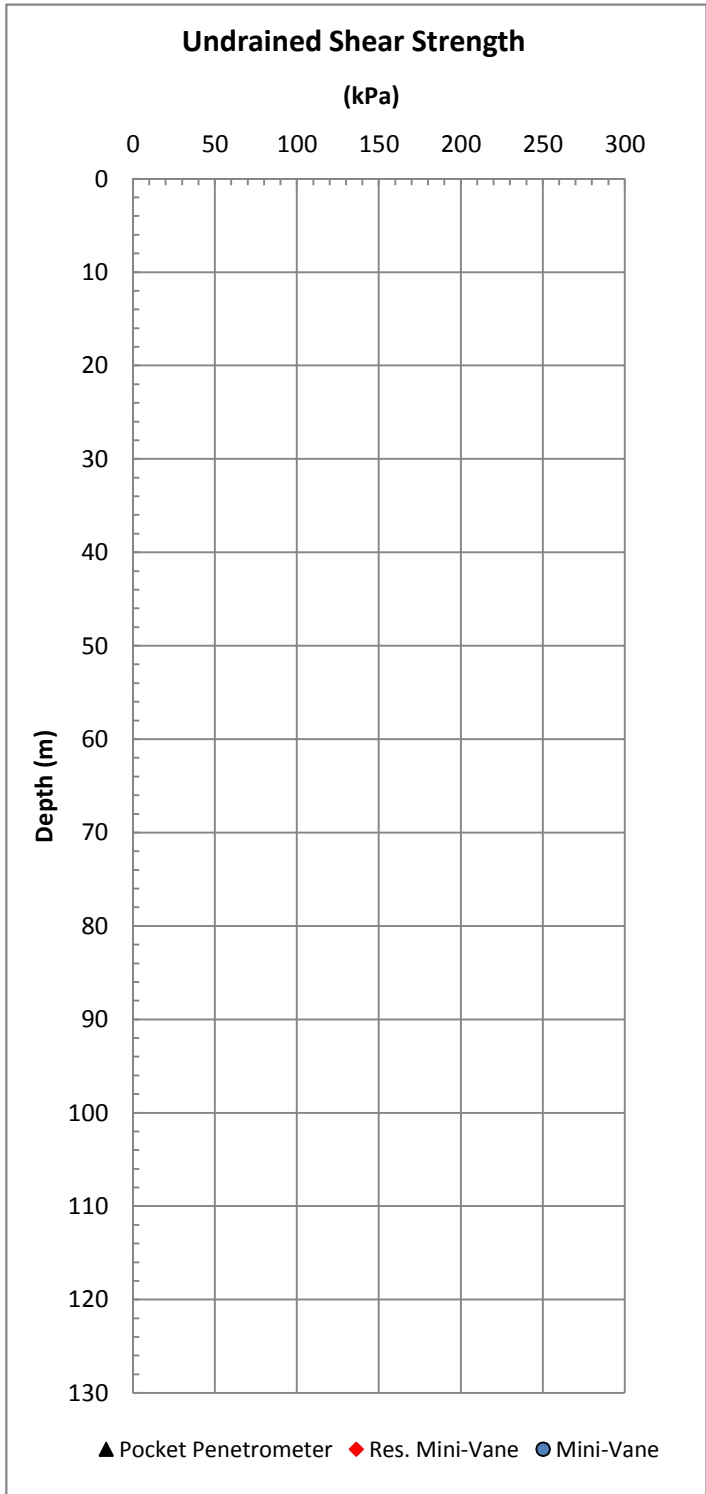
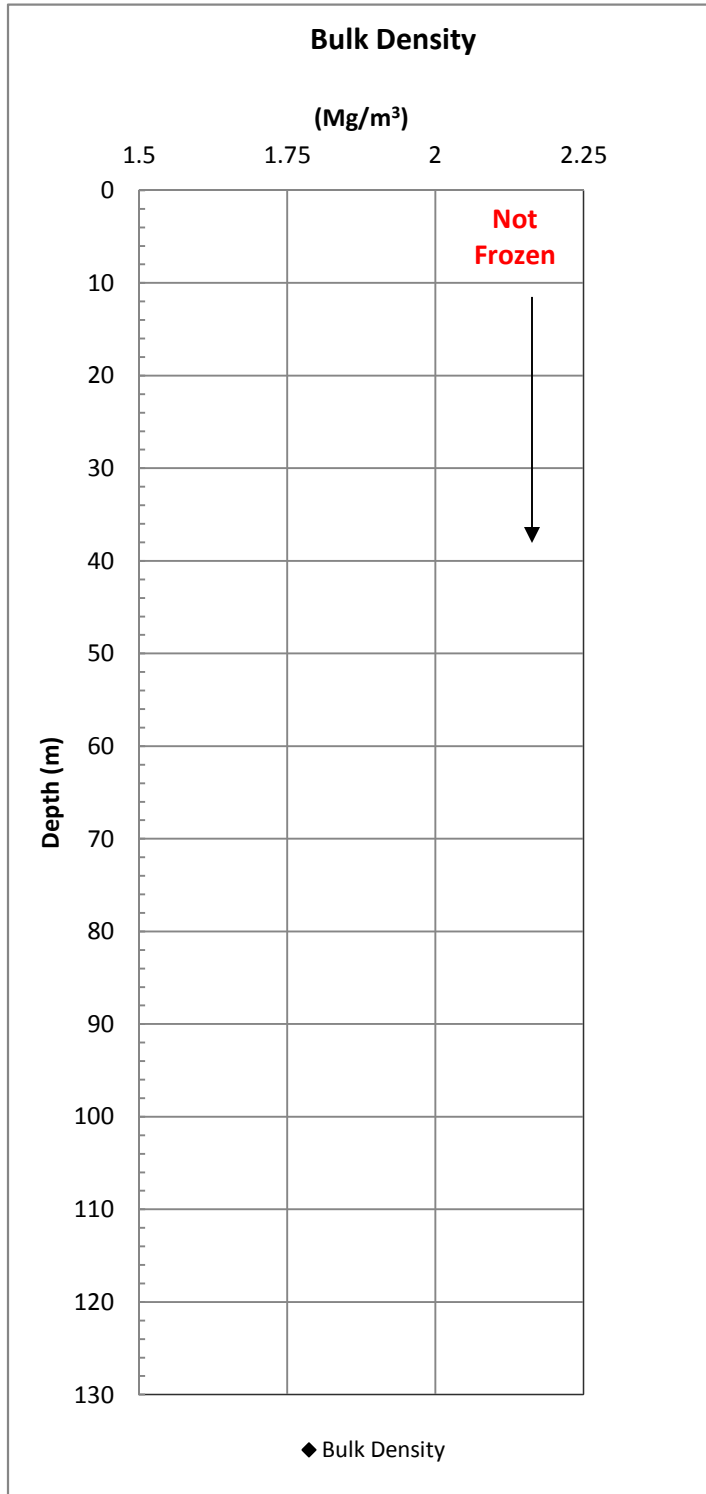


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Nektoratik H-28 Boring 8: Shallow

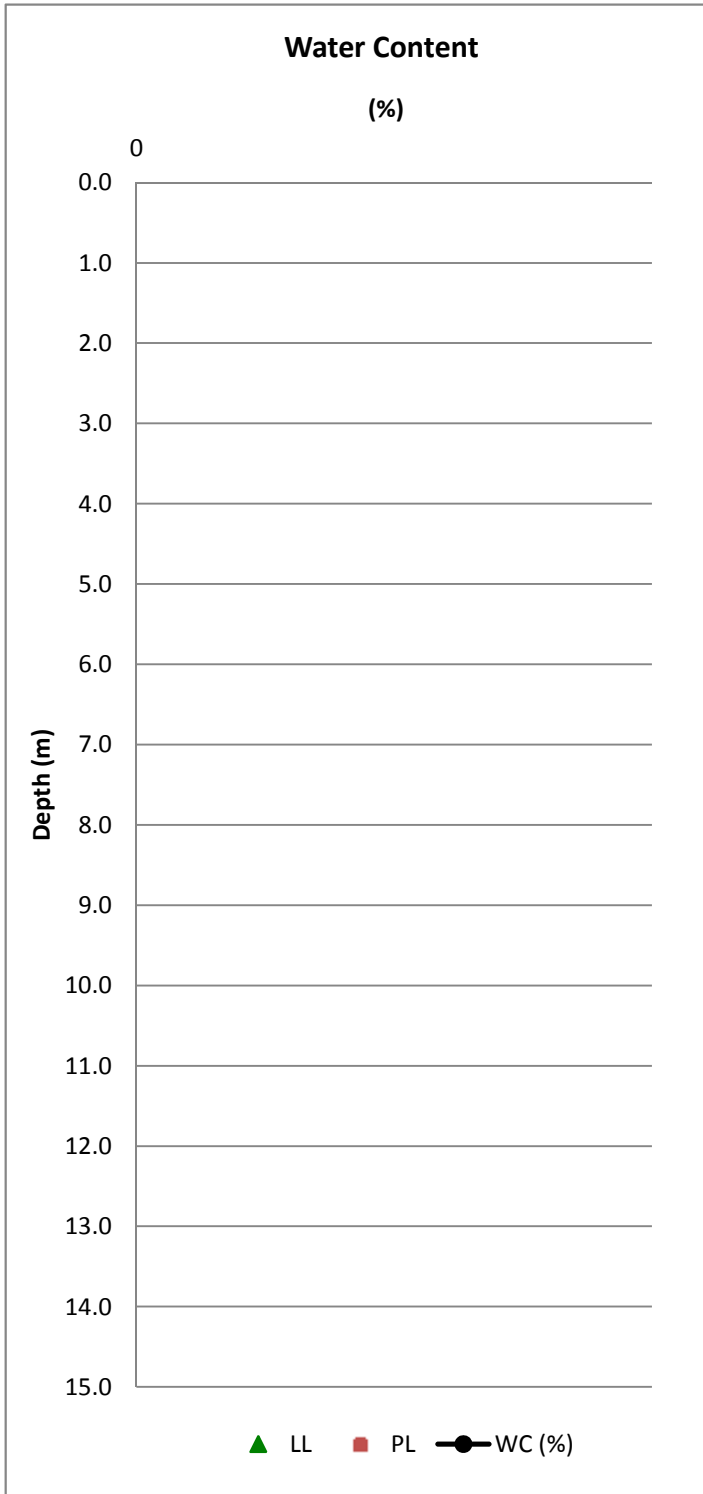
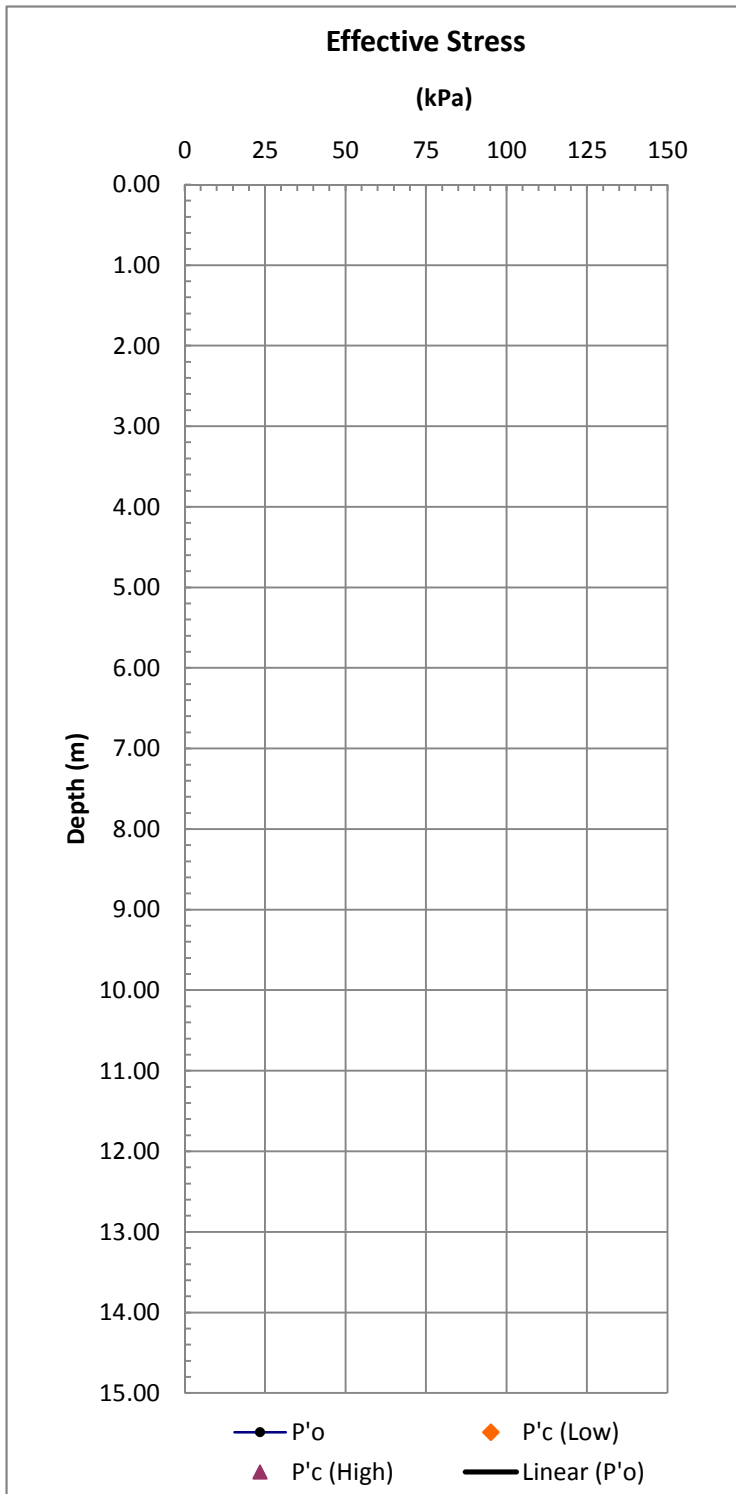
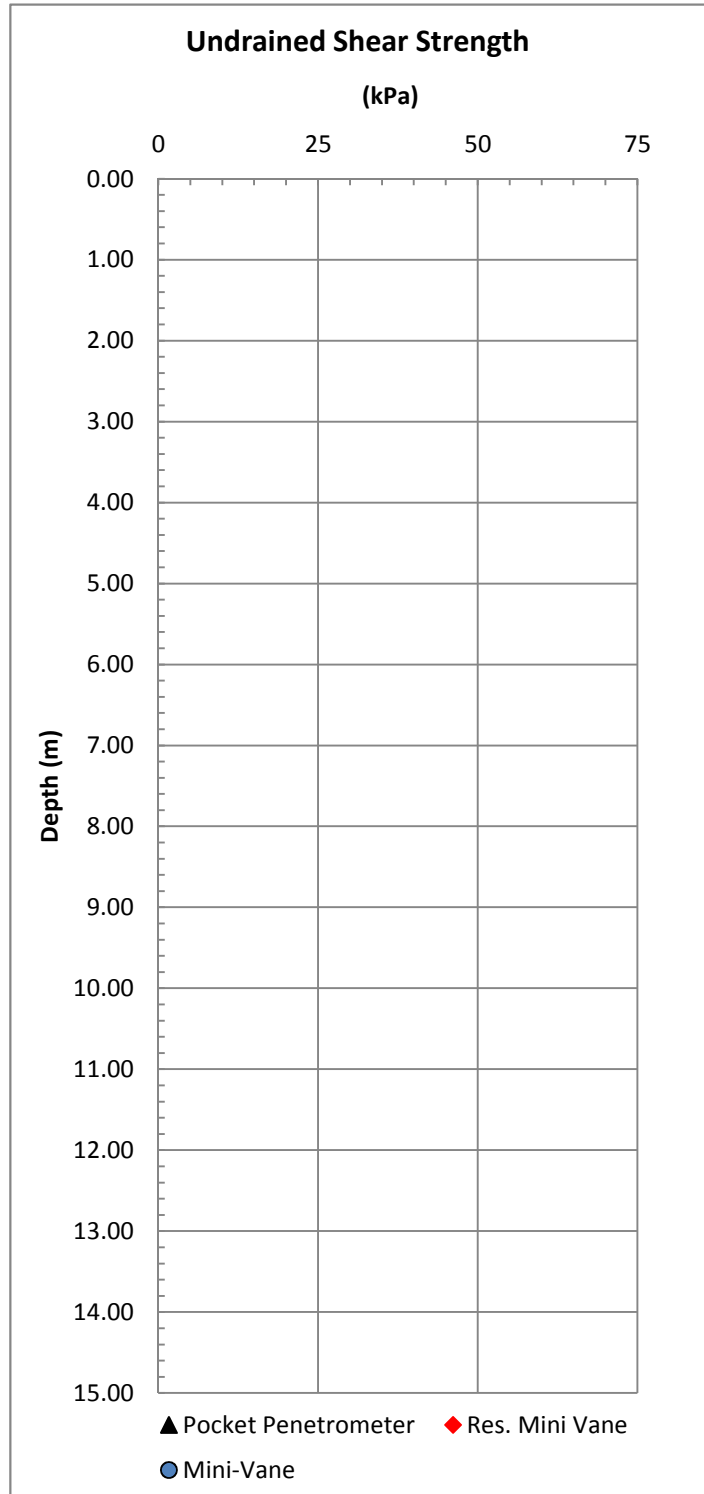
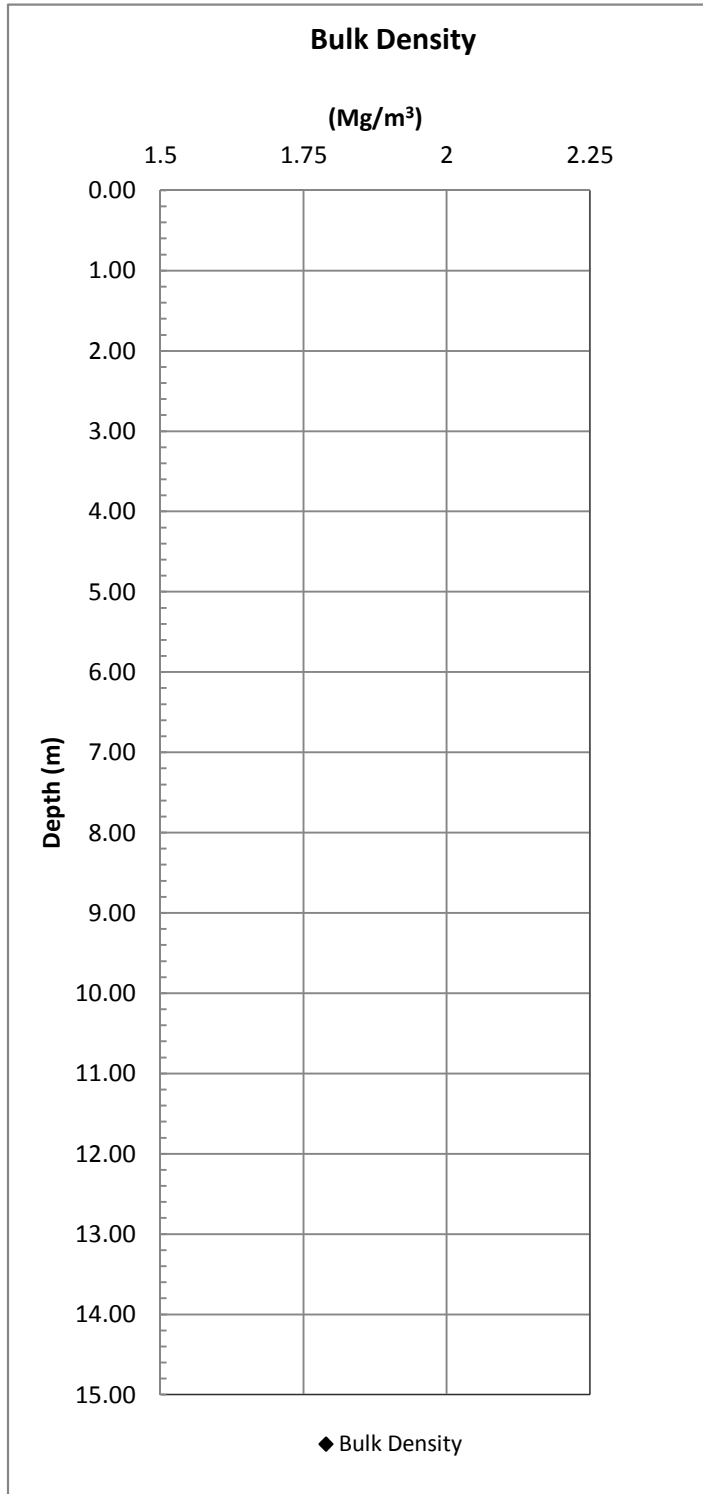
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10033 Beaufort Data



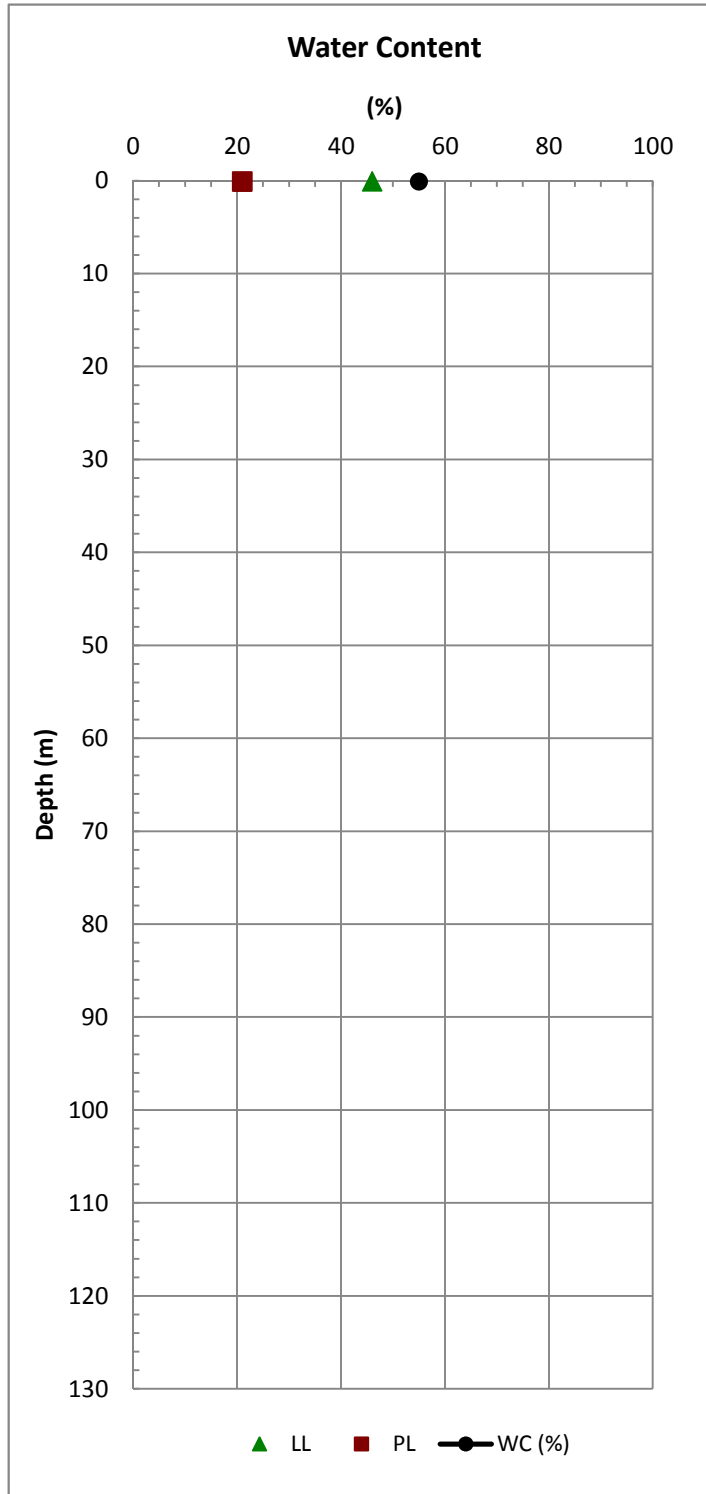
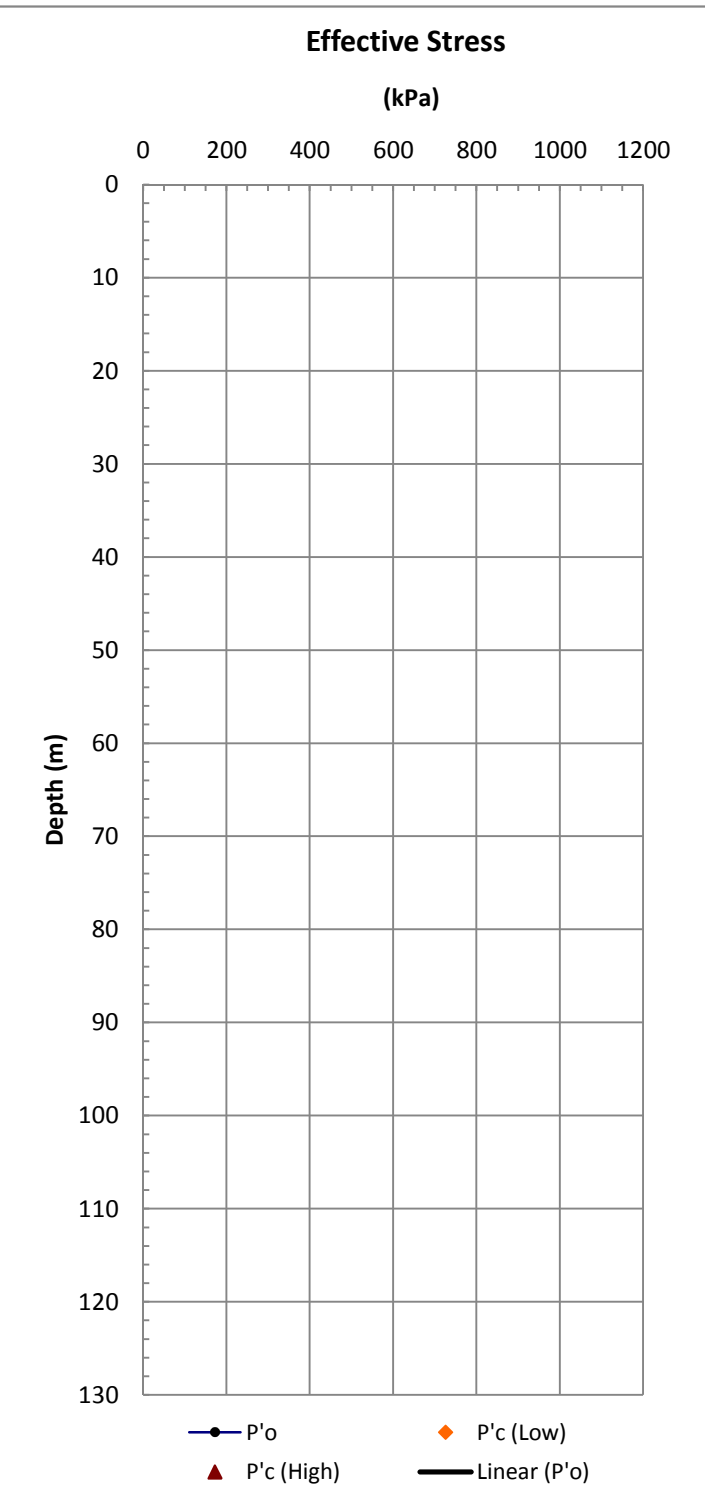
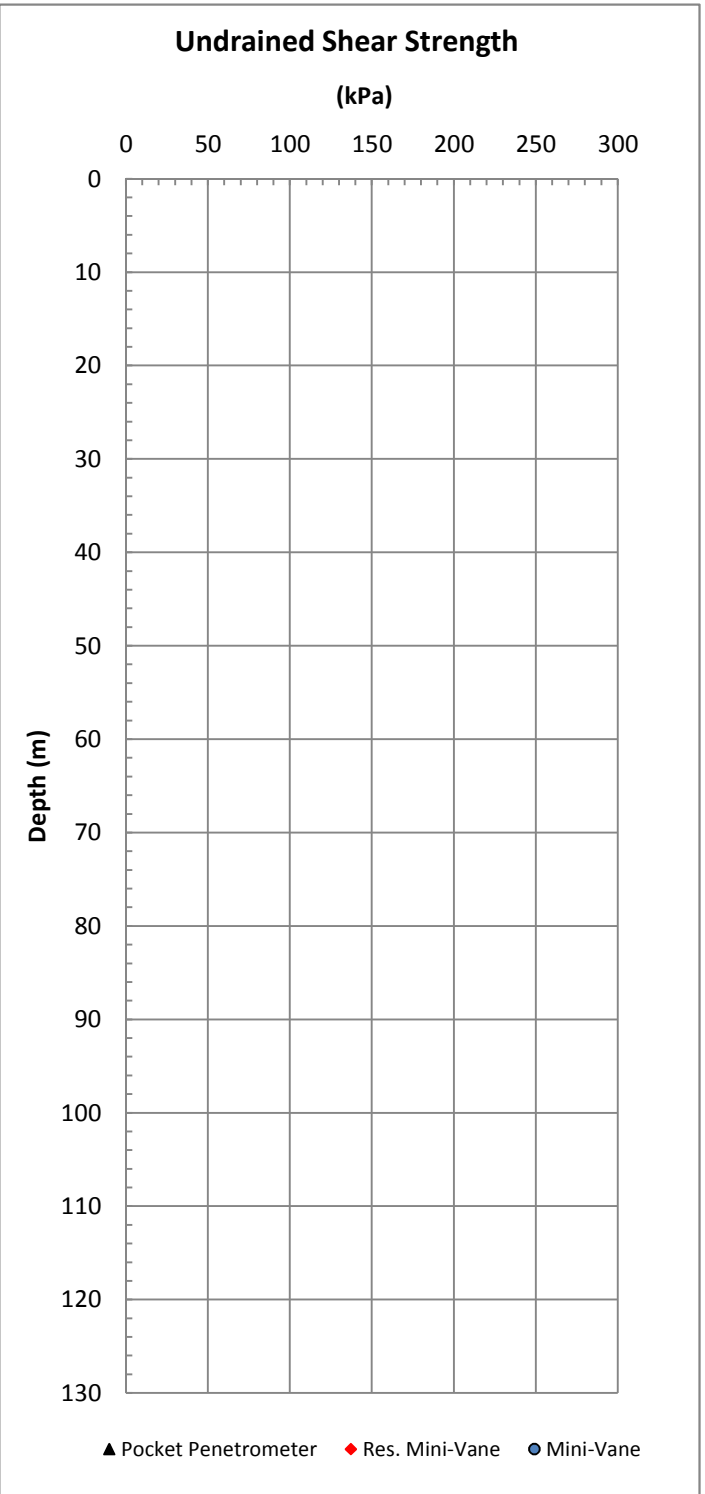
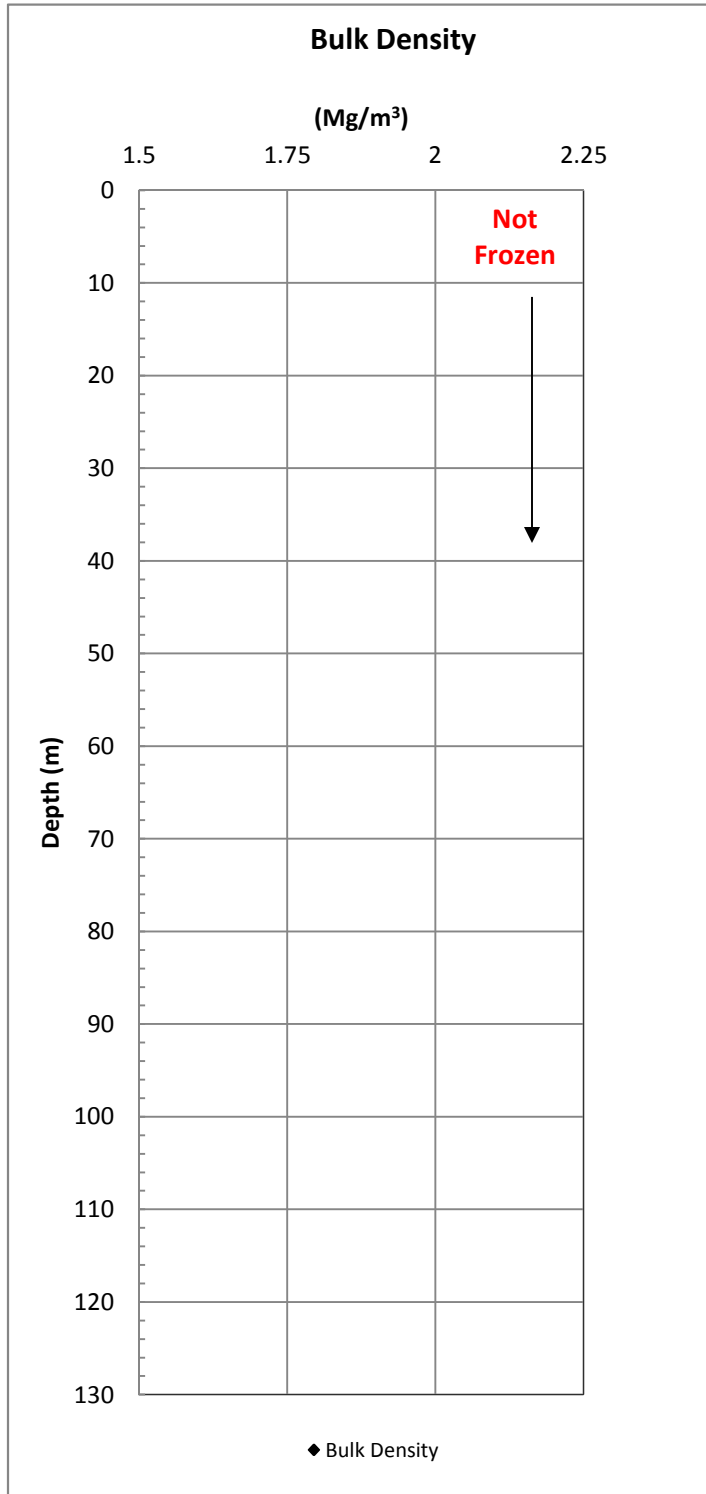
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Figure C.3
 10033 Beaufort Data



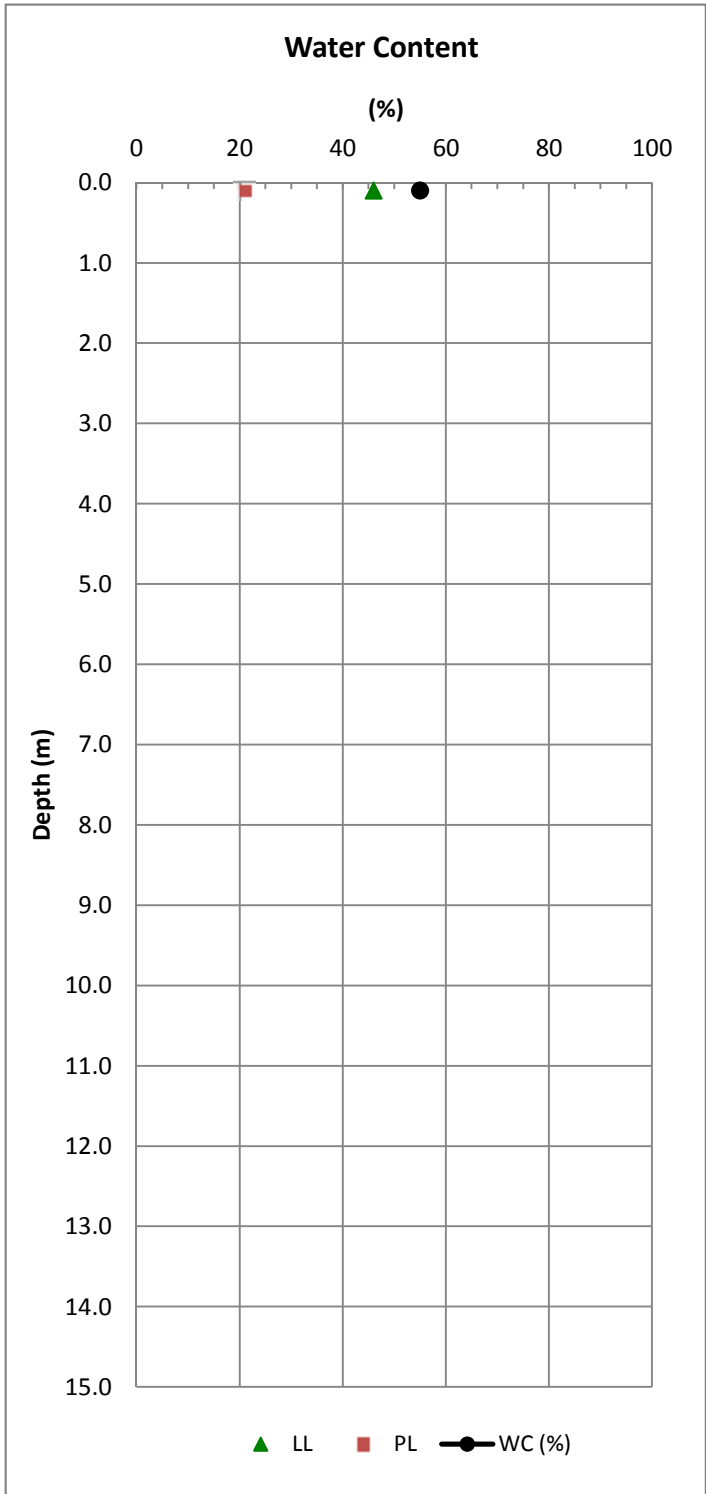
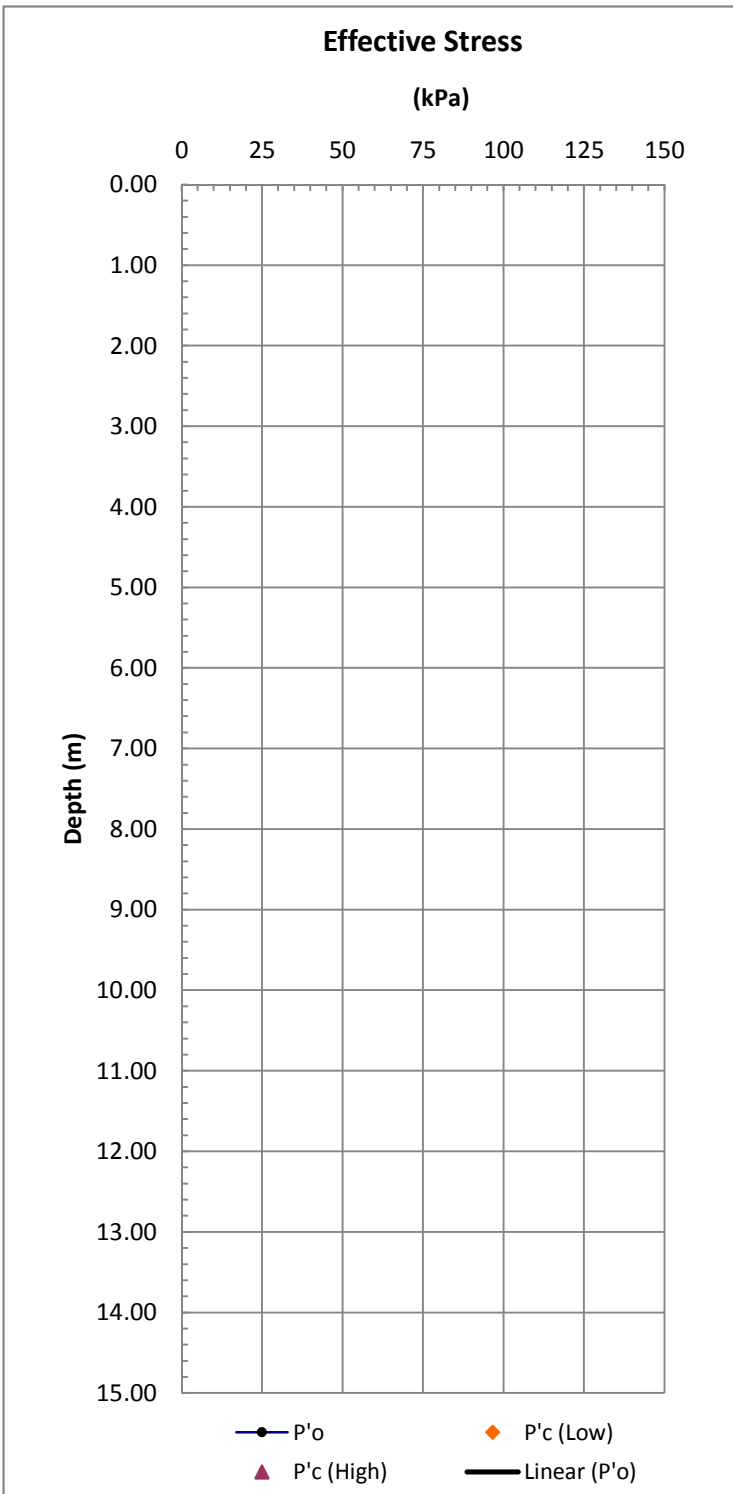
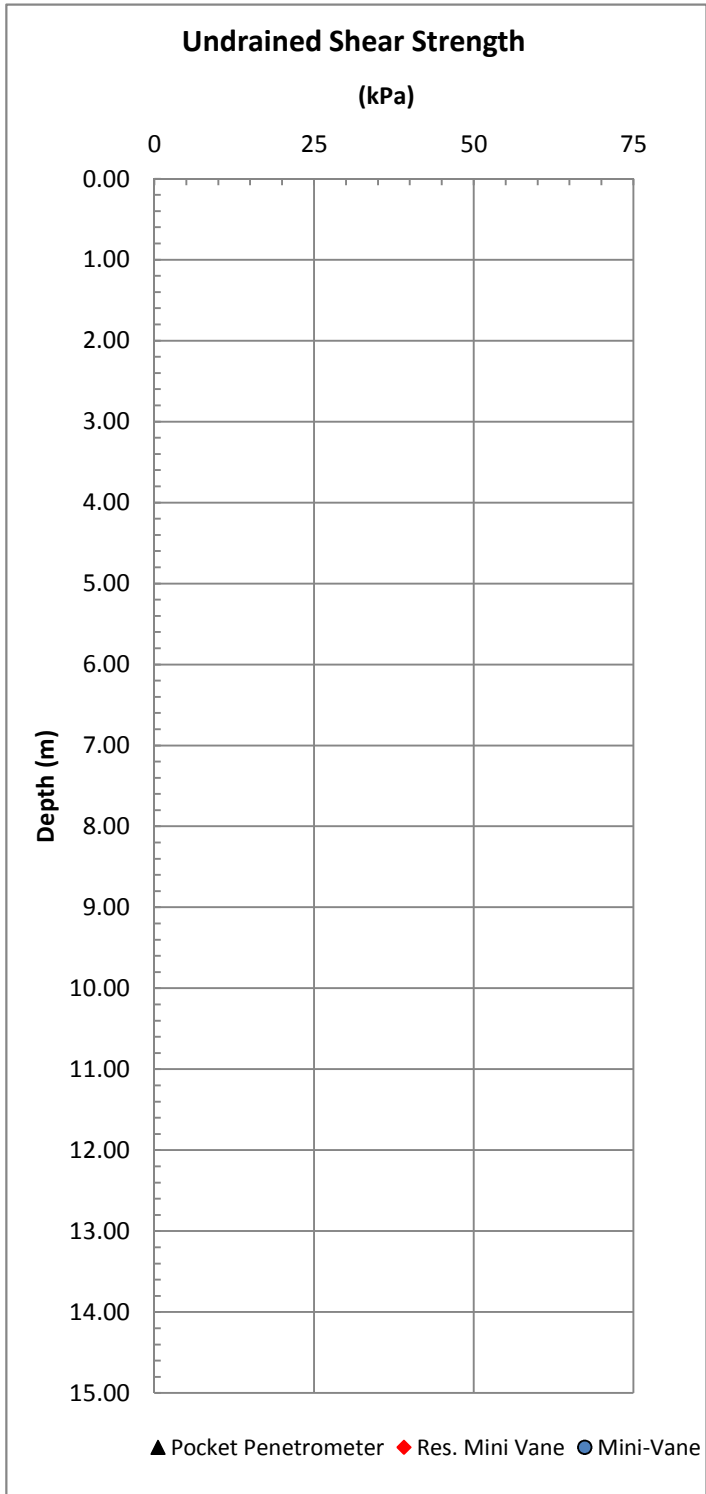
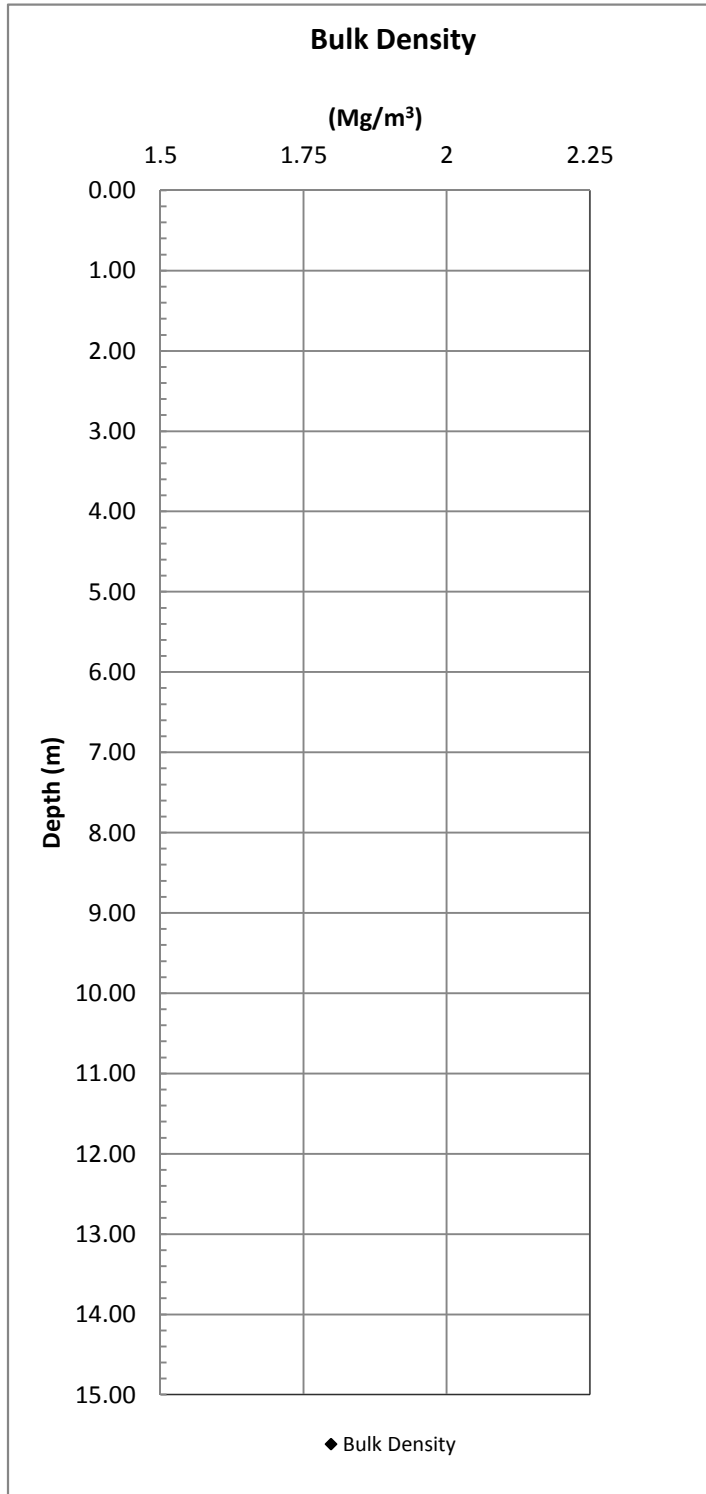
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Figure C.3
 10033 Beaufort Data



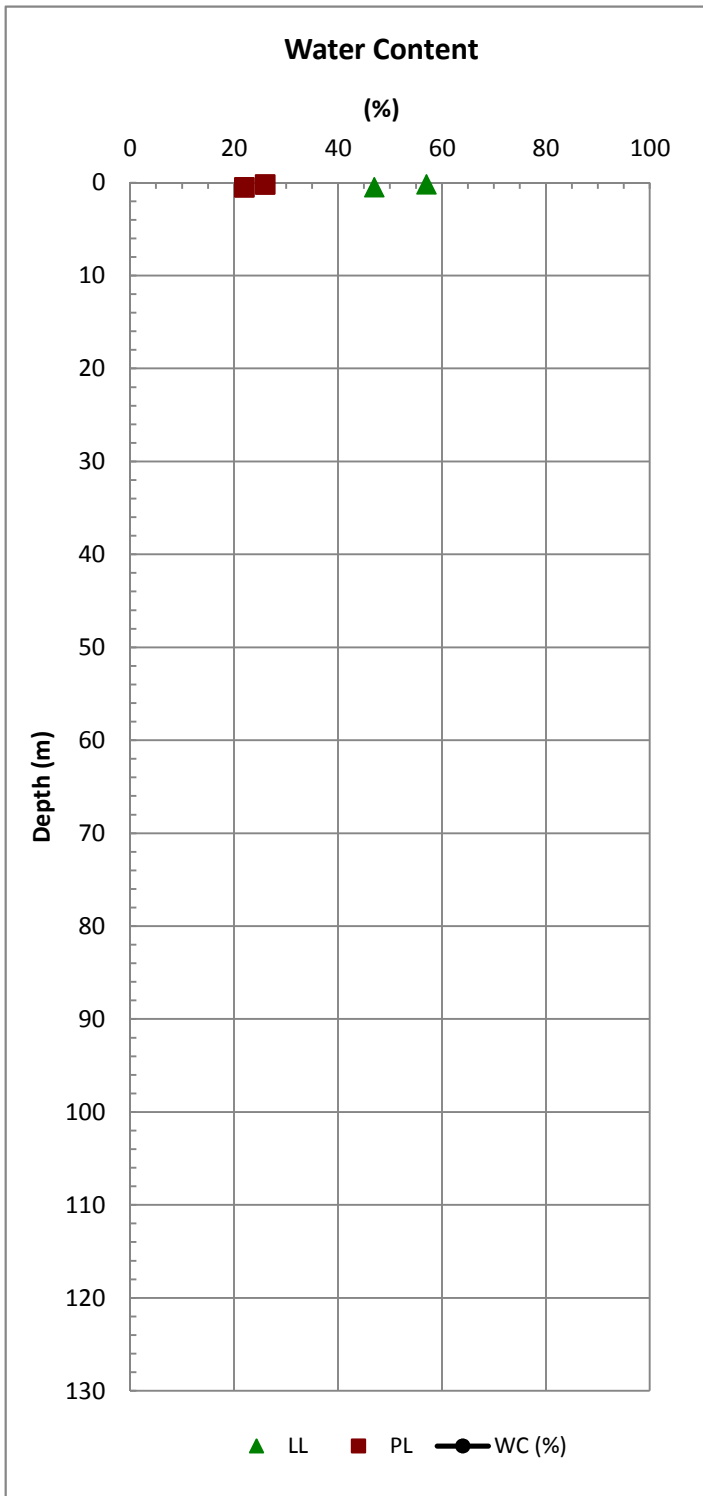
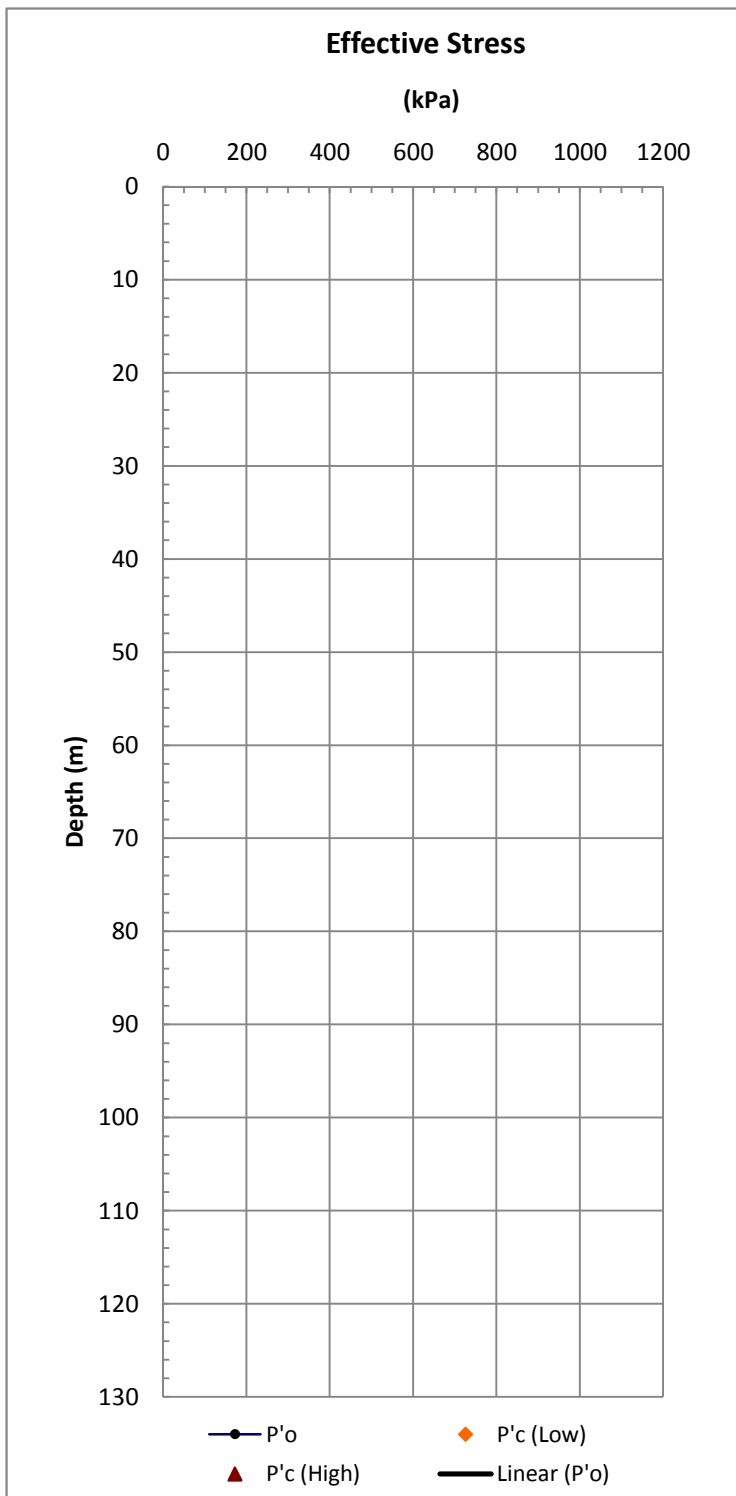
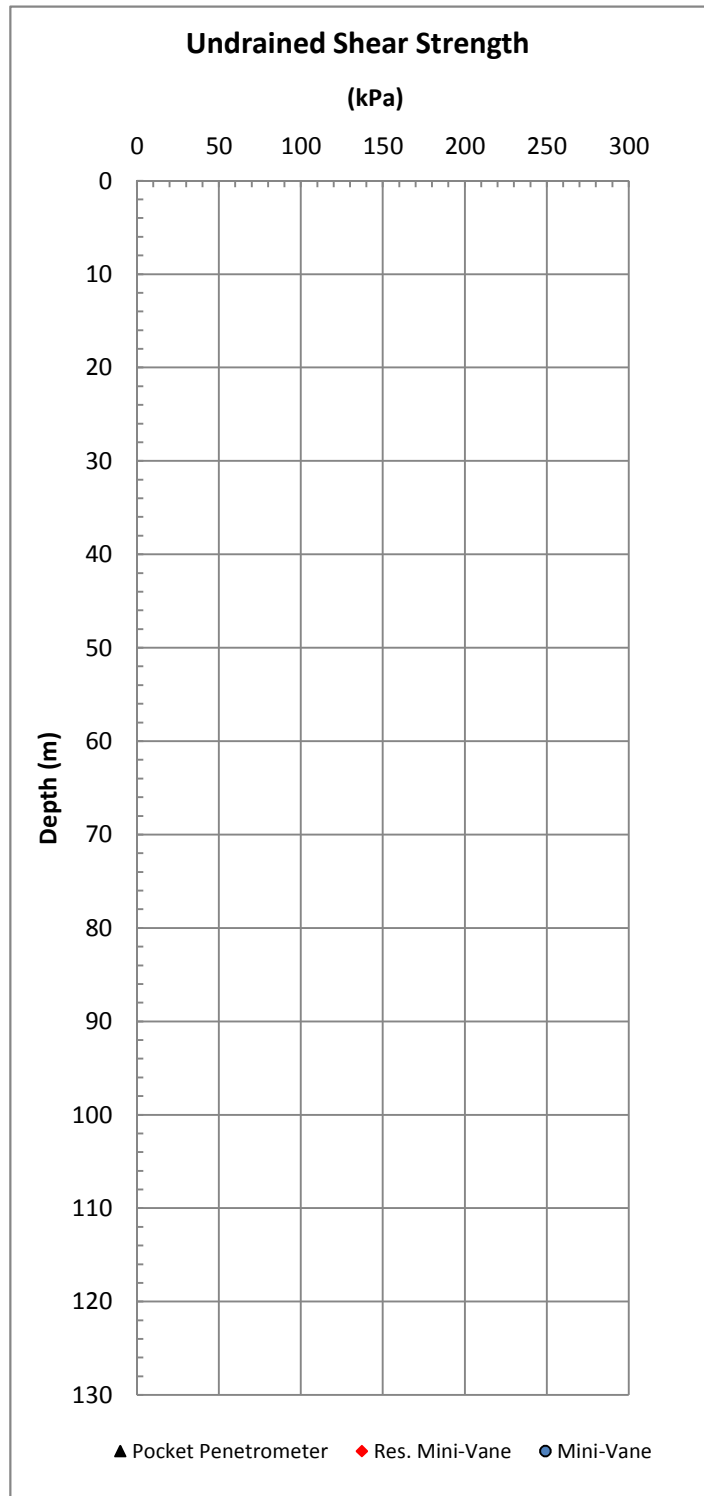
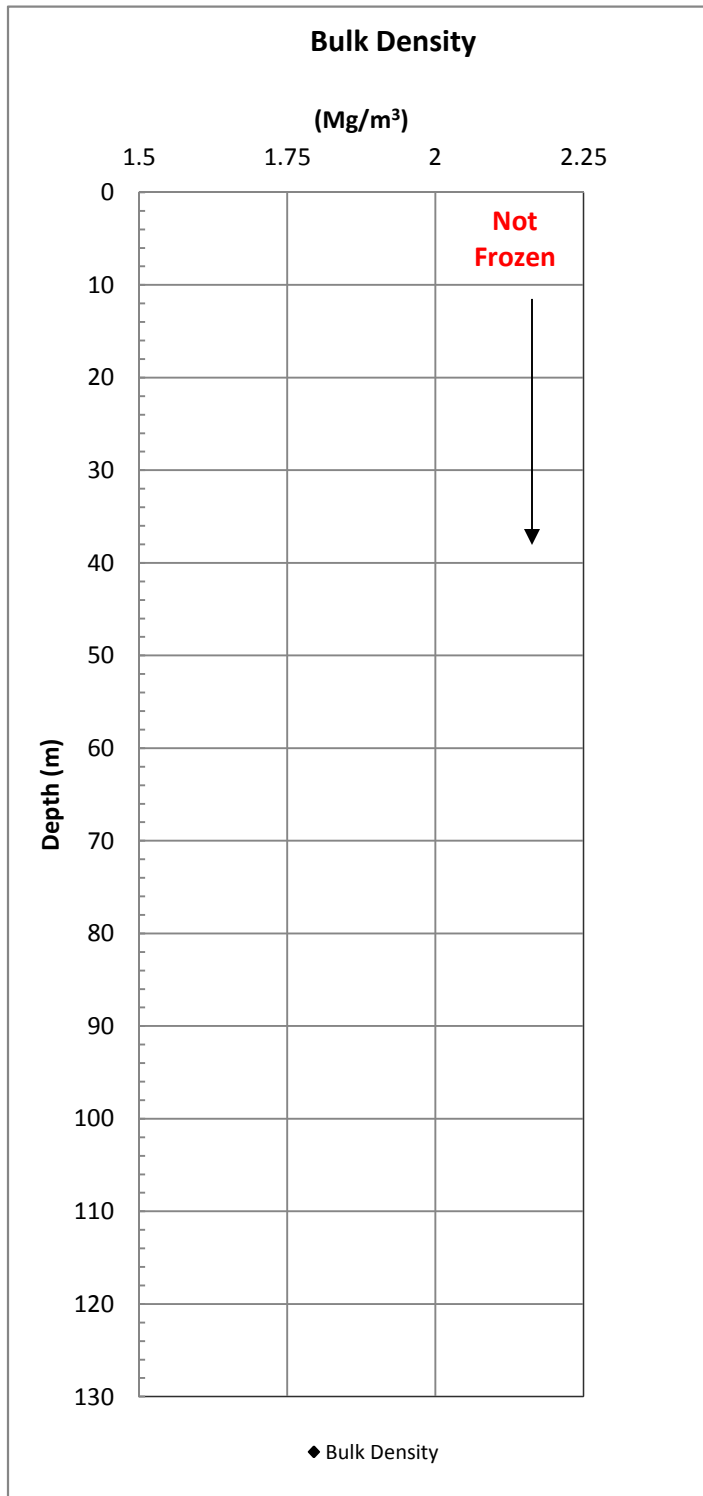
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Nerlerk B-Ner 1:2
Figure C.3
 10033 Beaufort Data



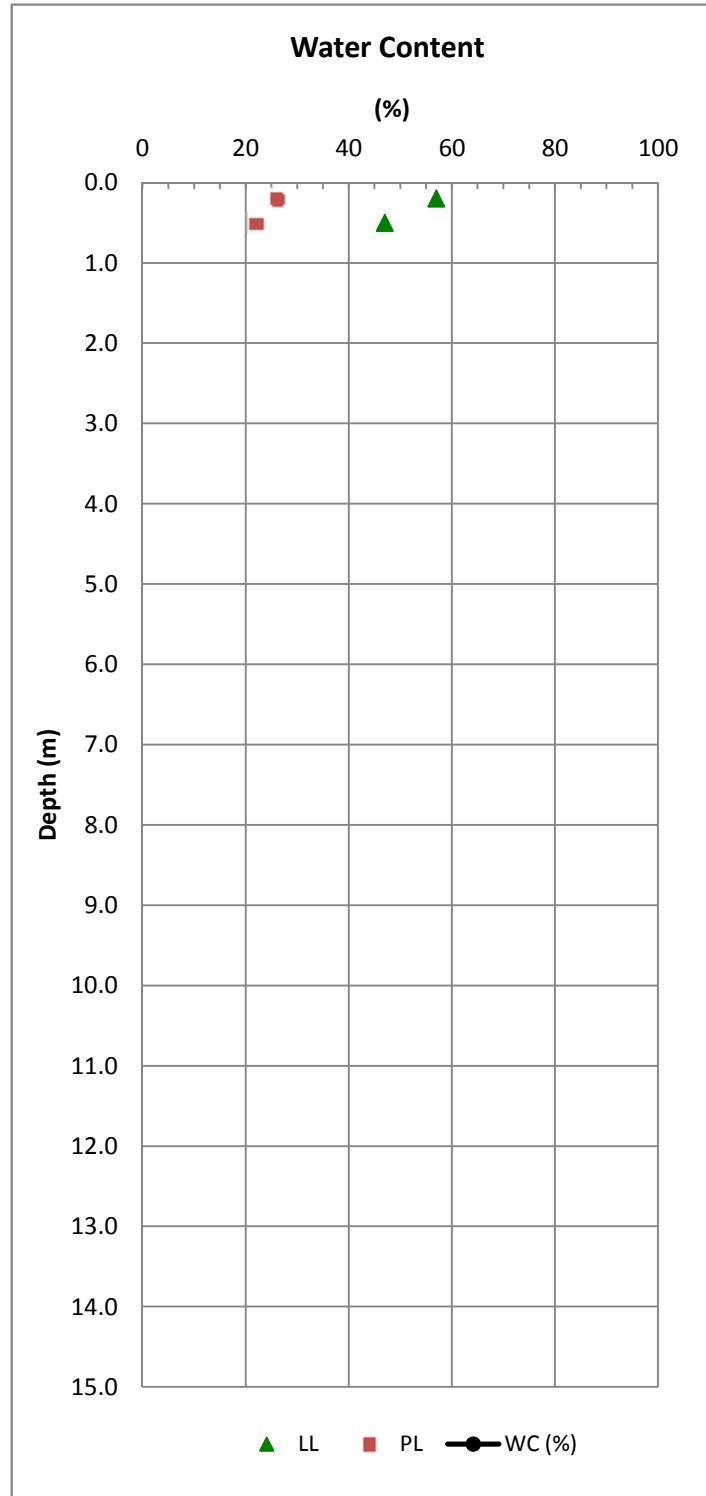
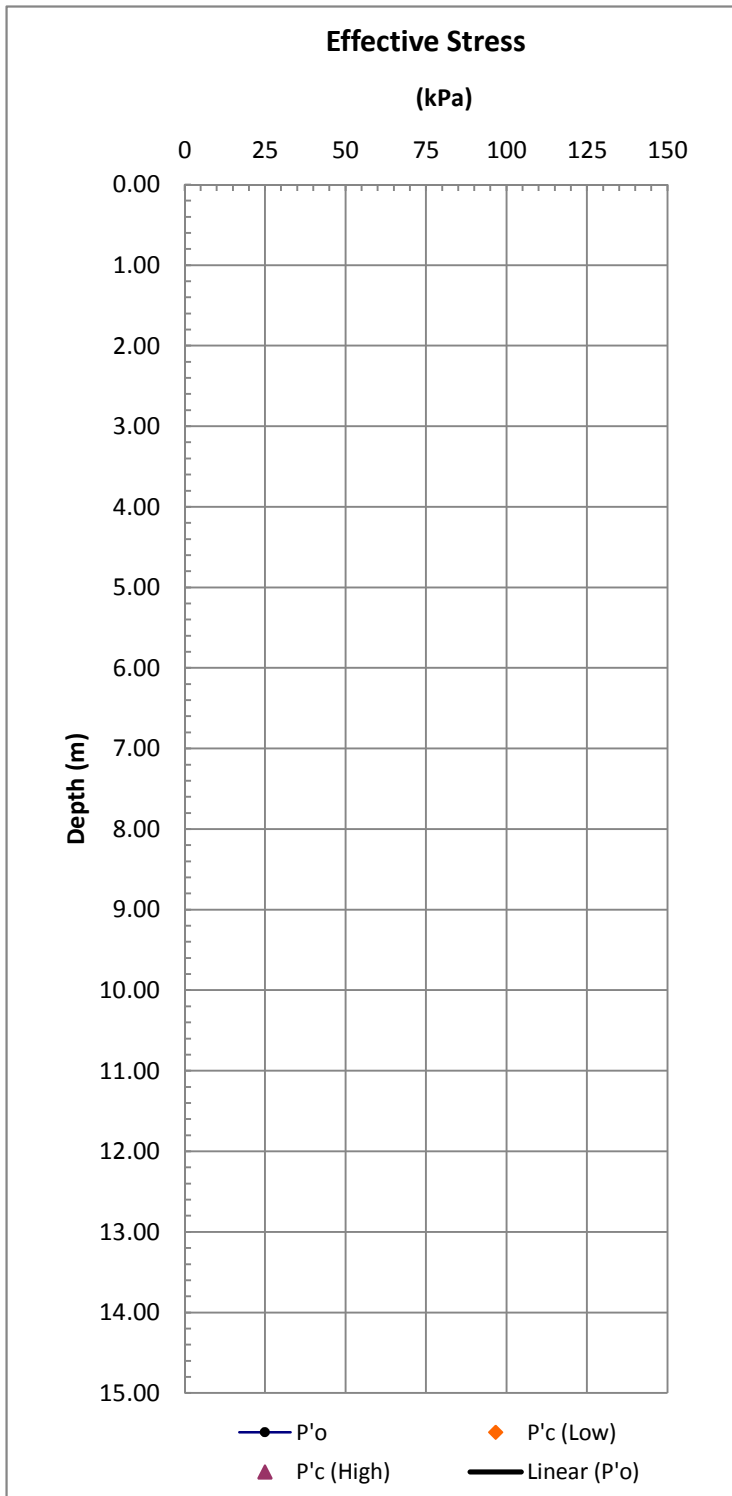
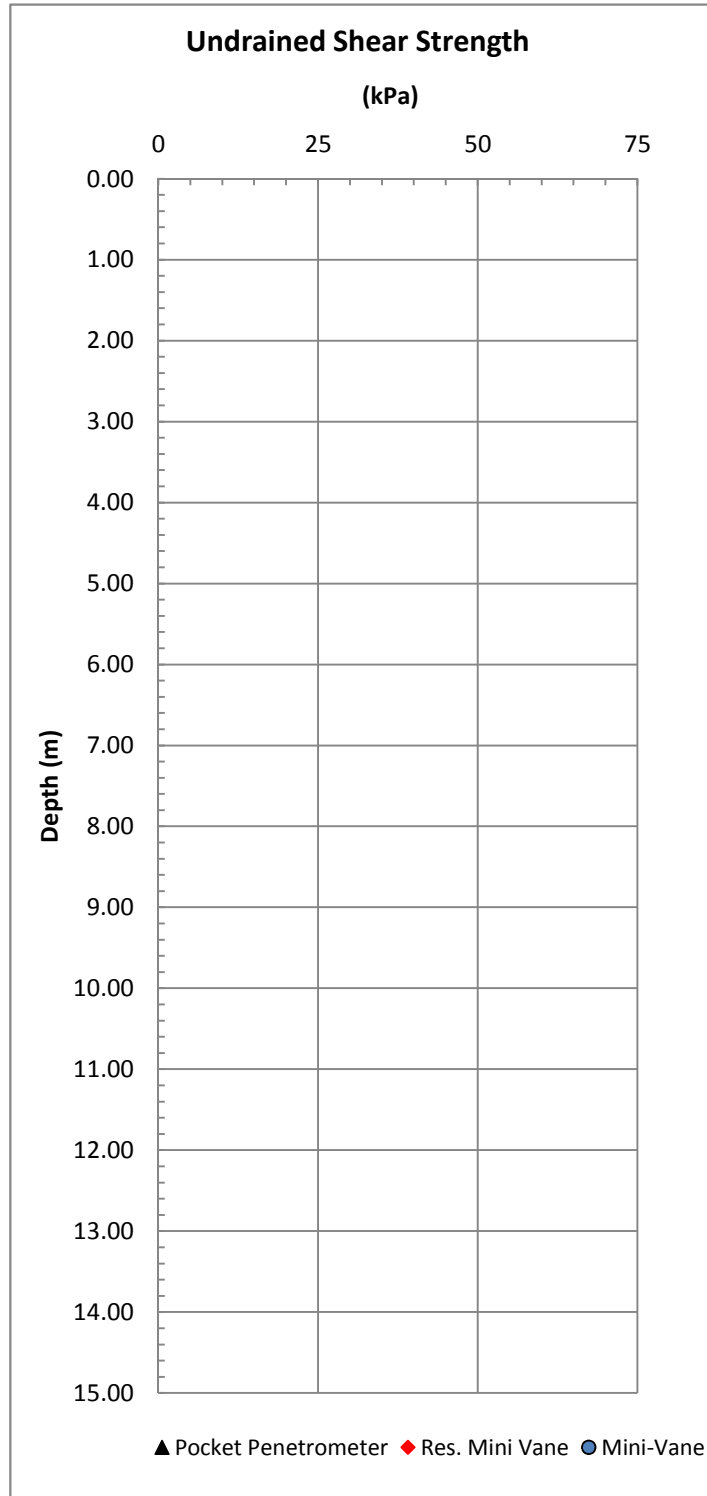
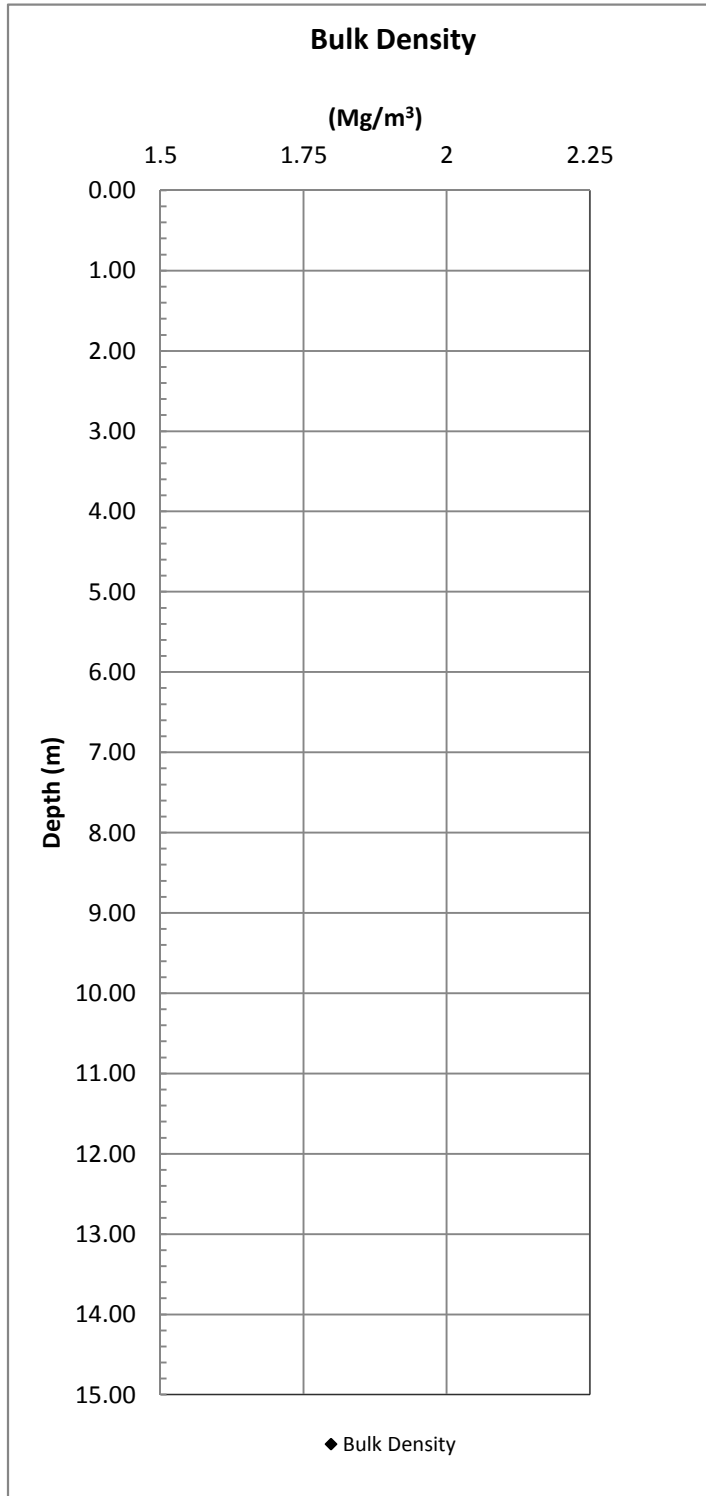
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Figure C.3
 10033 Beaufort Data



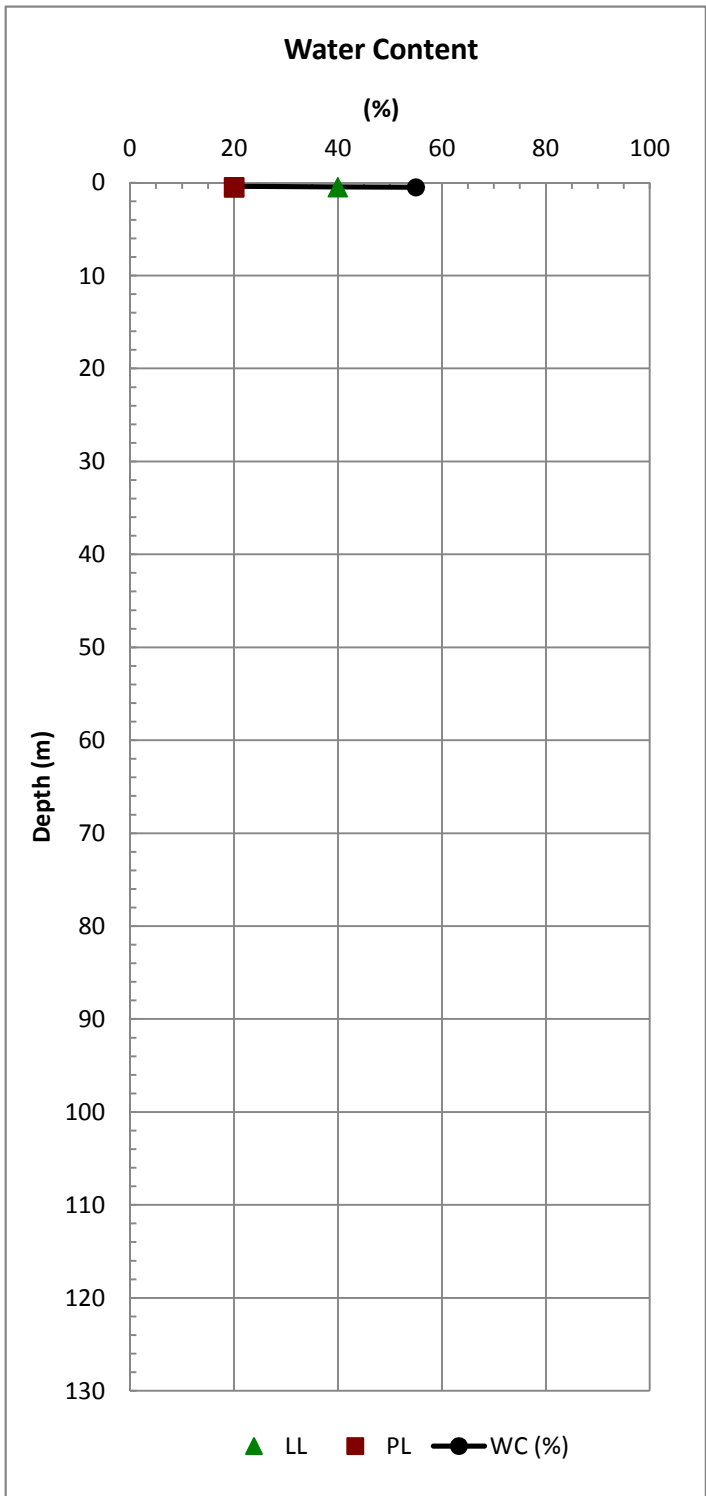
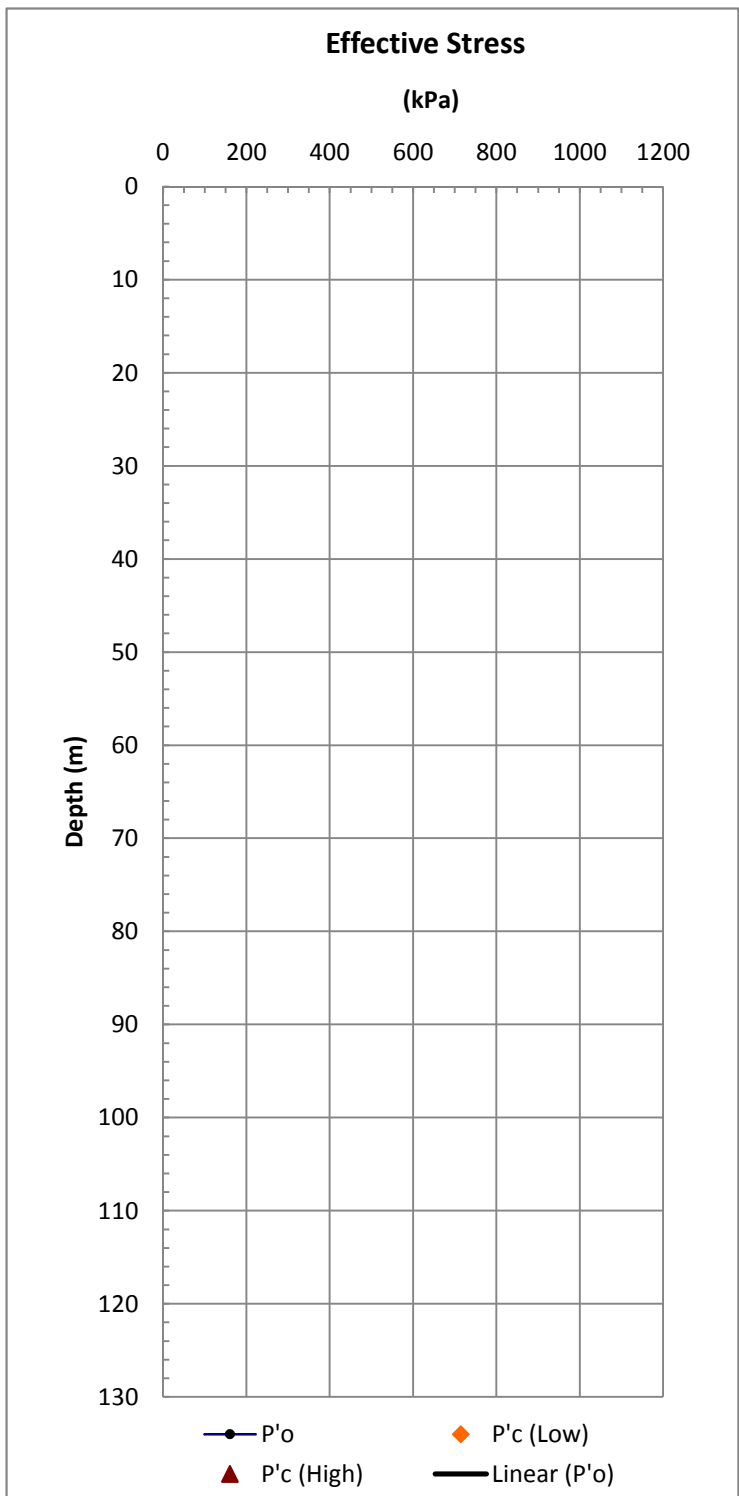
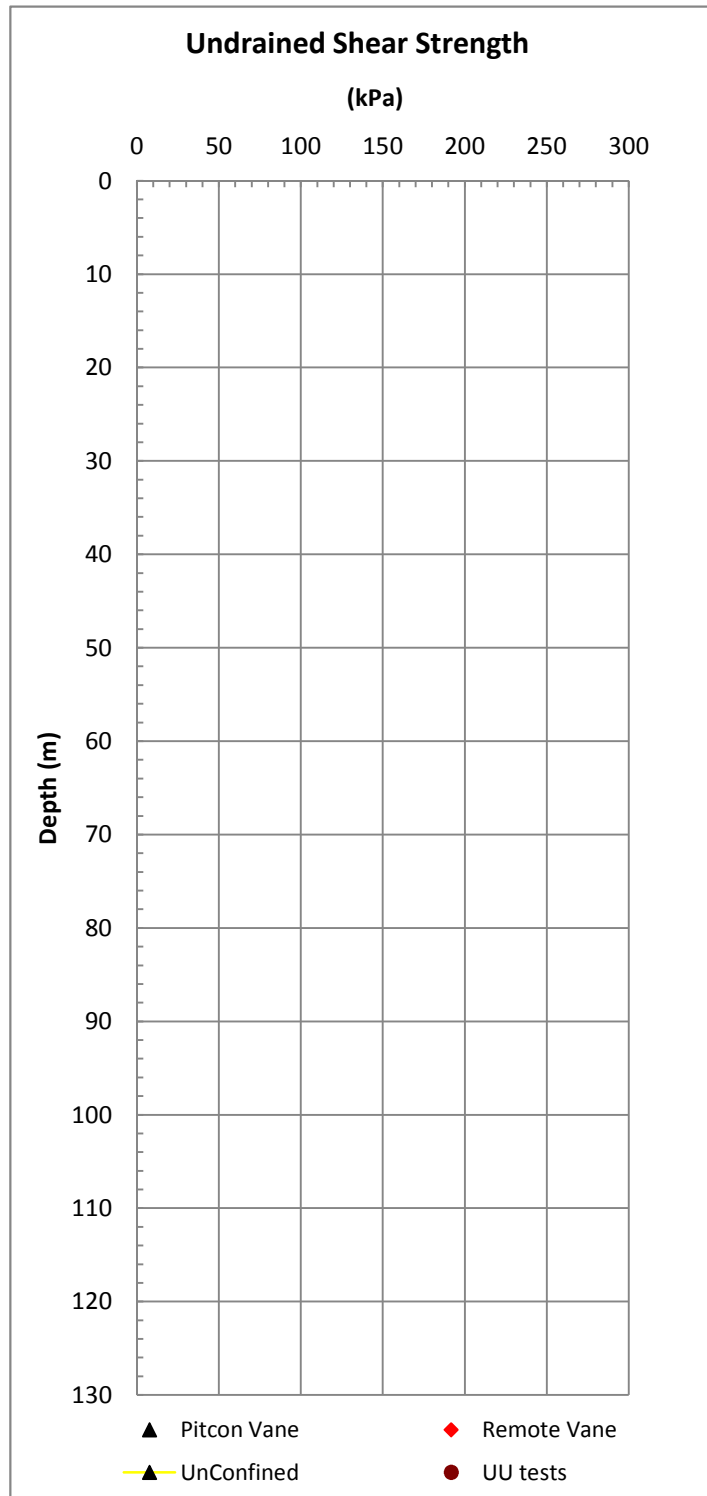
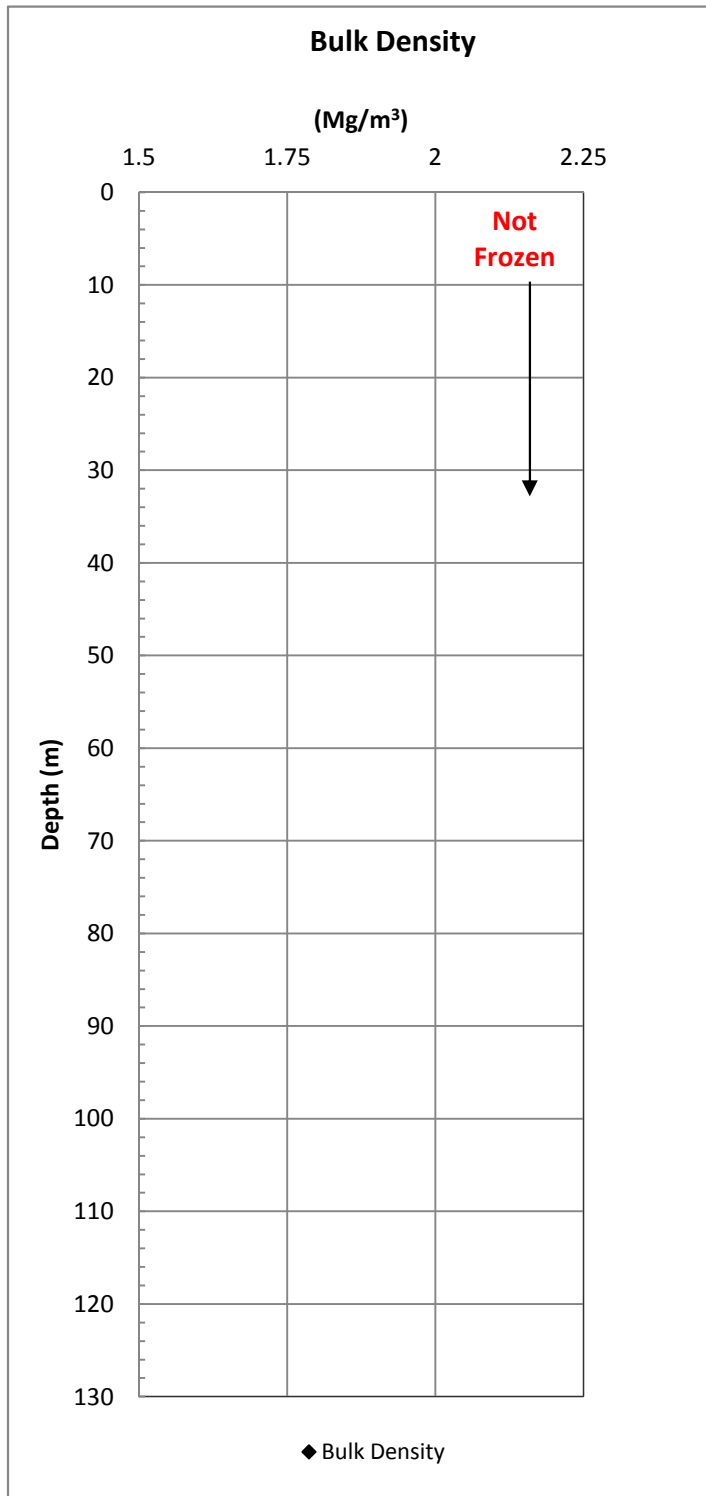
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Nerlerk B-Ner 1:3
Figure C.3
 10033 Beaufort Data



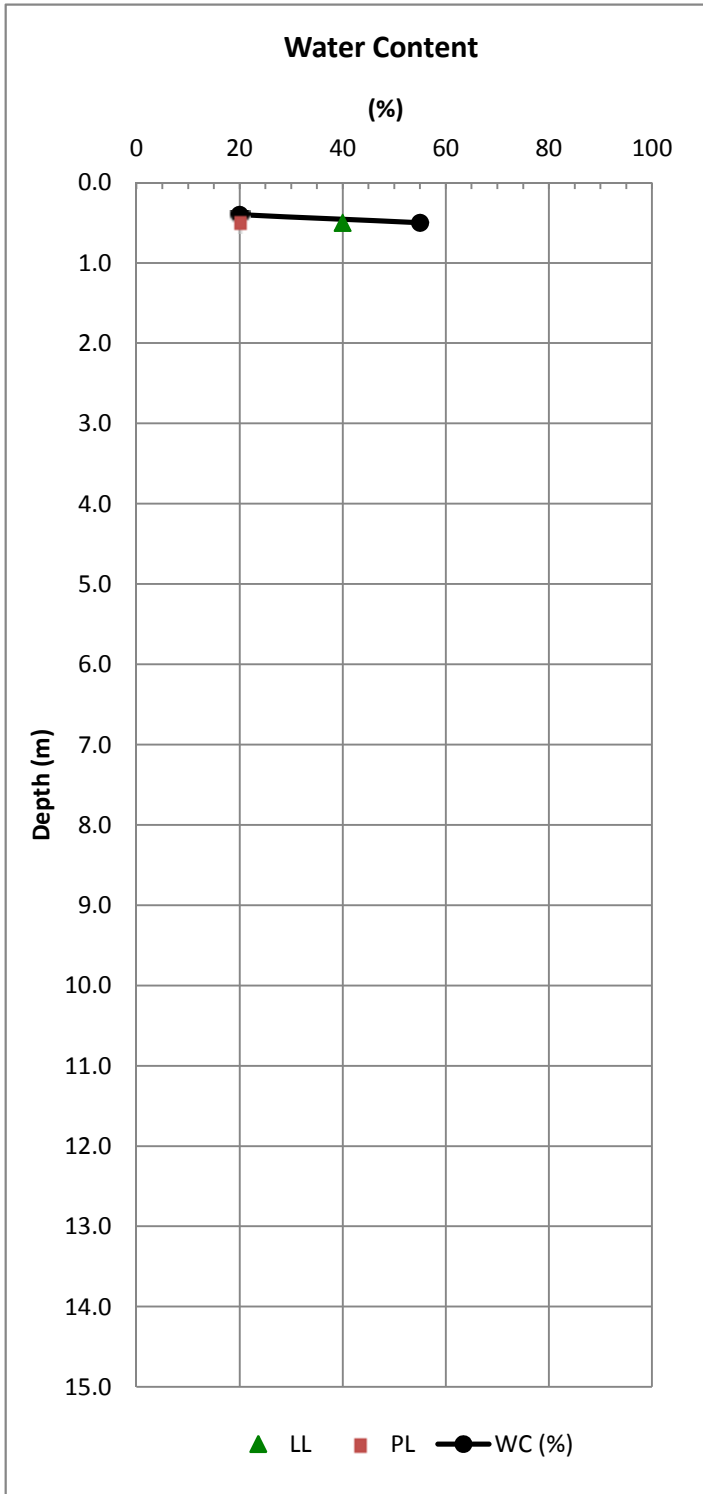
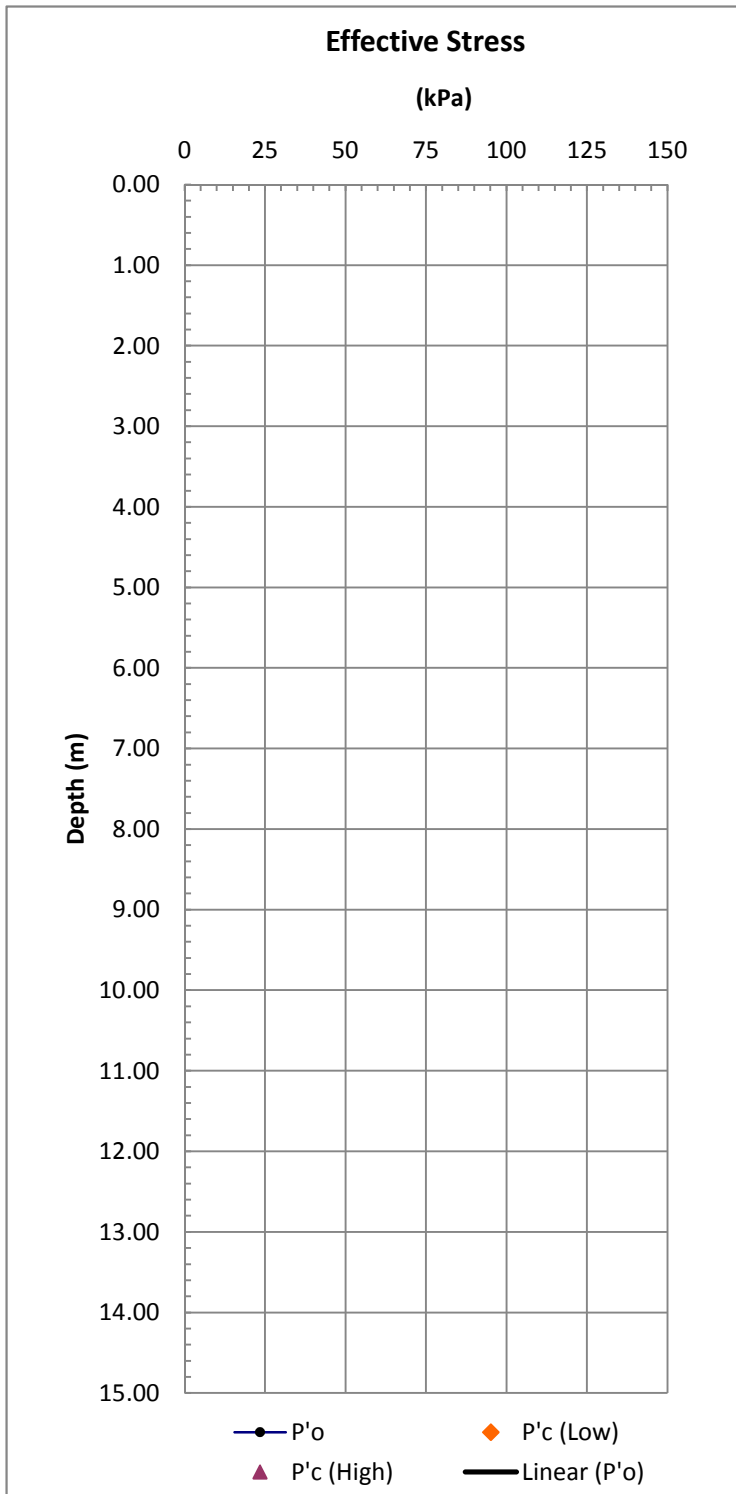
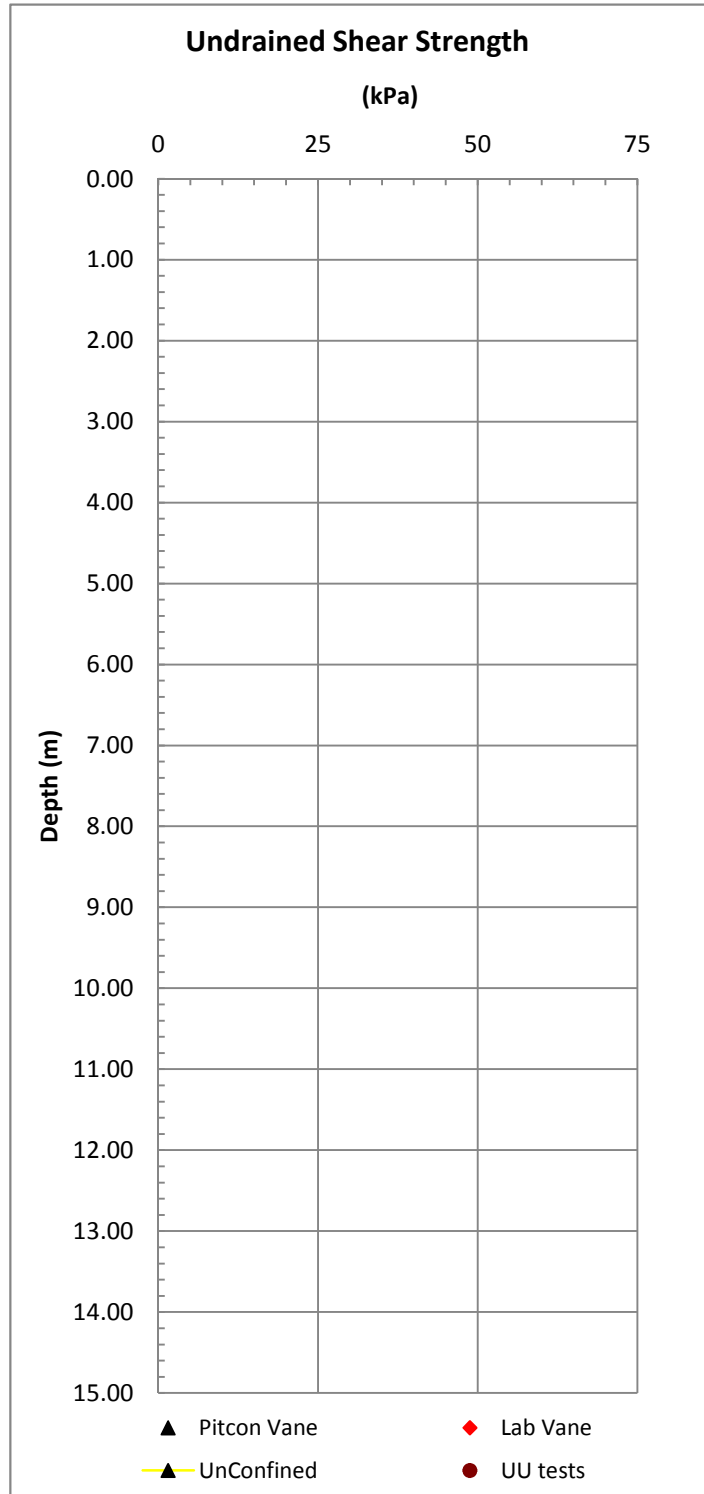
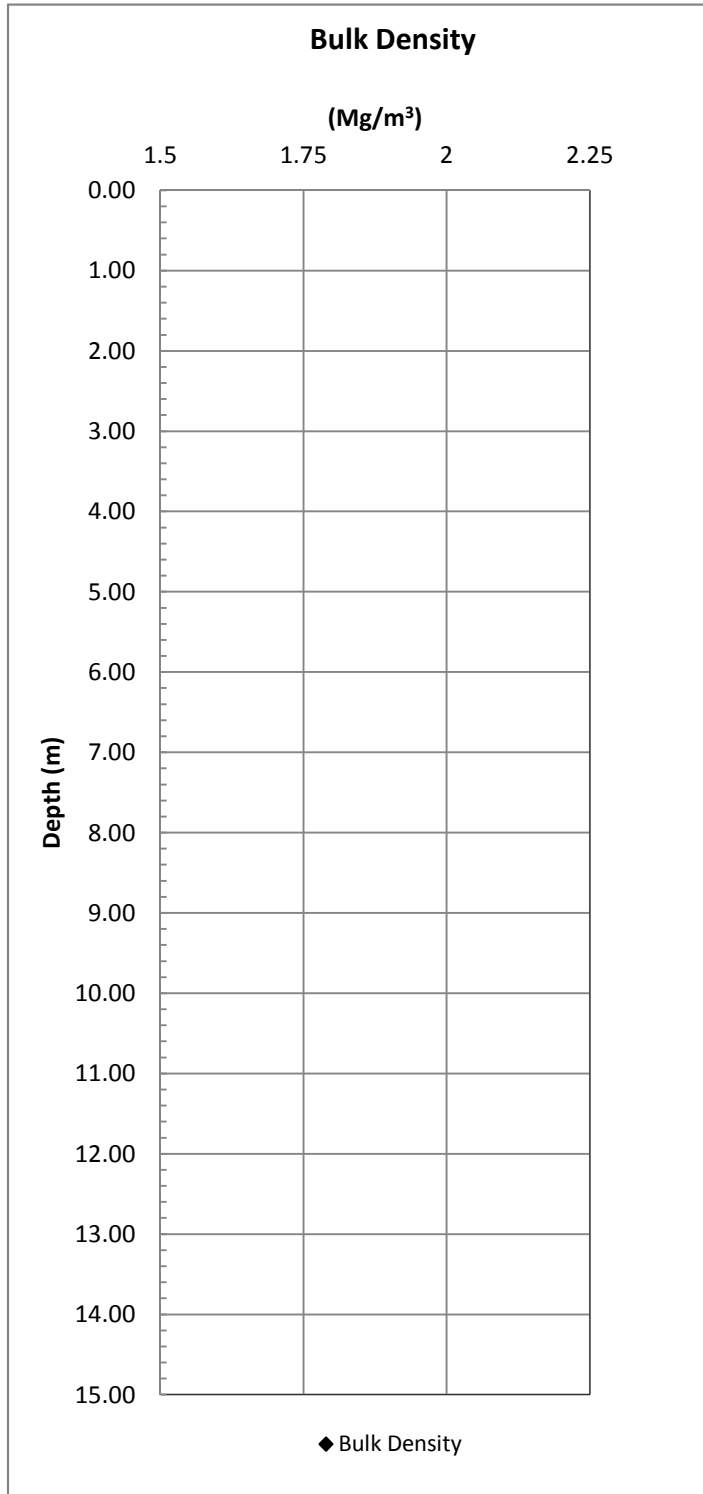
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Figure C.3
 10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

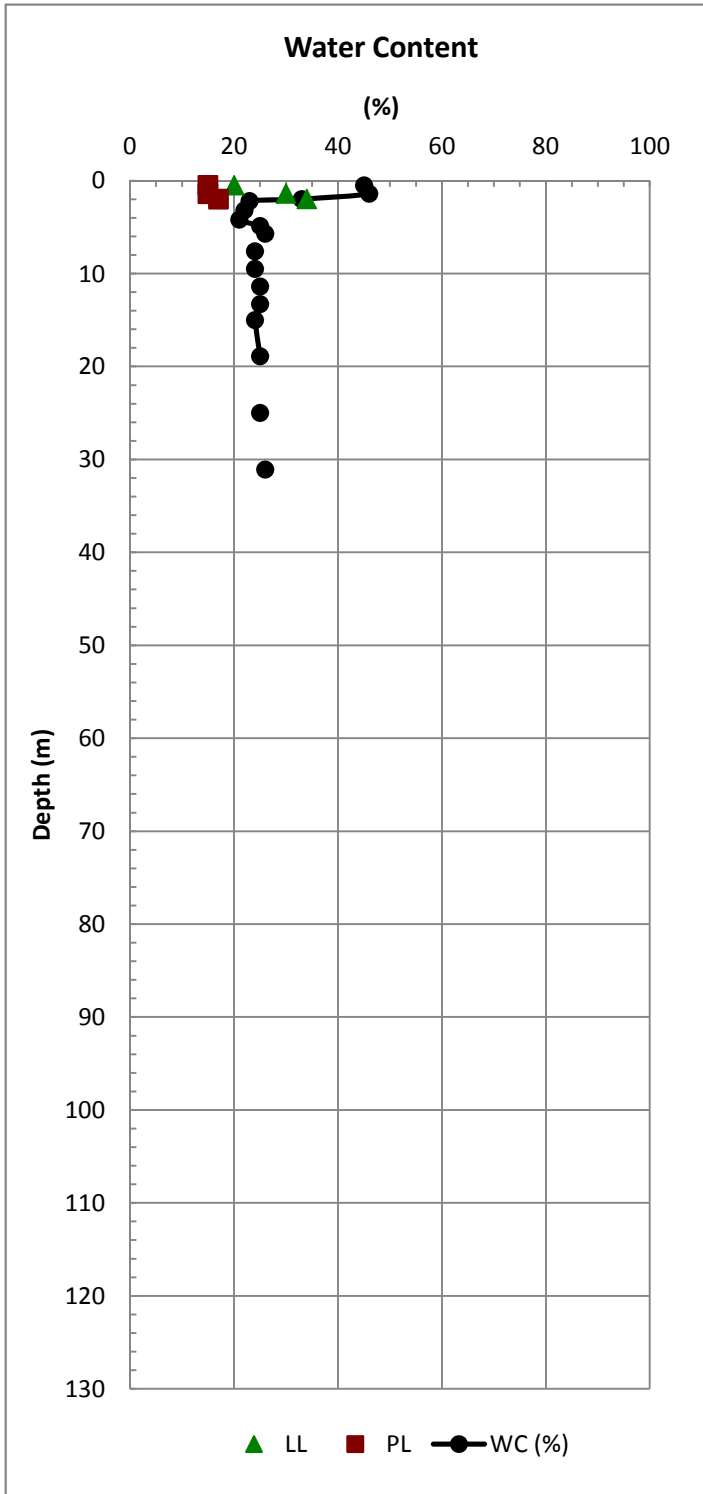
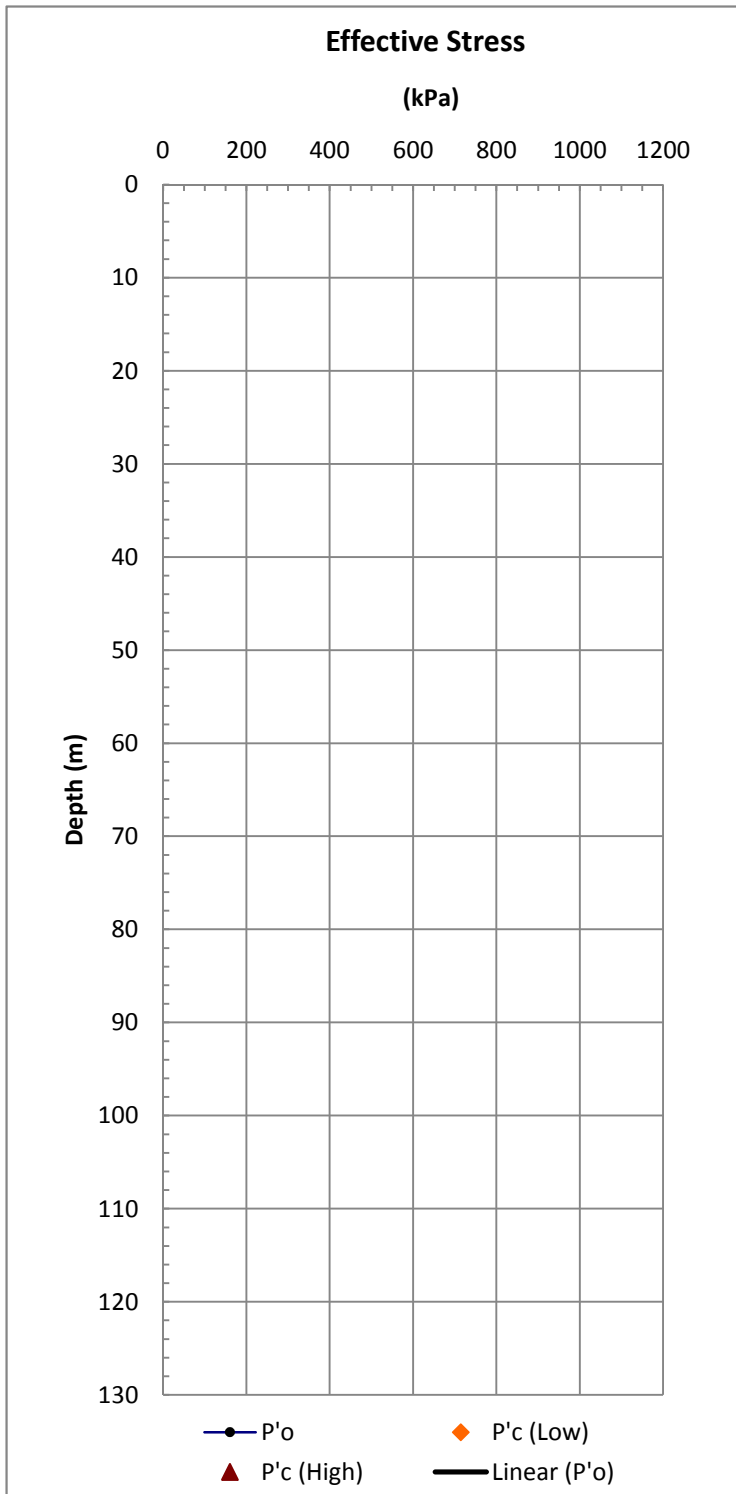
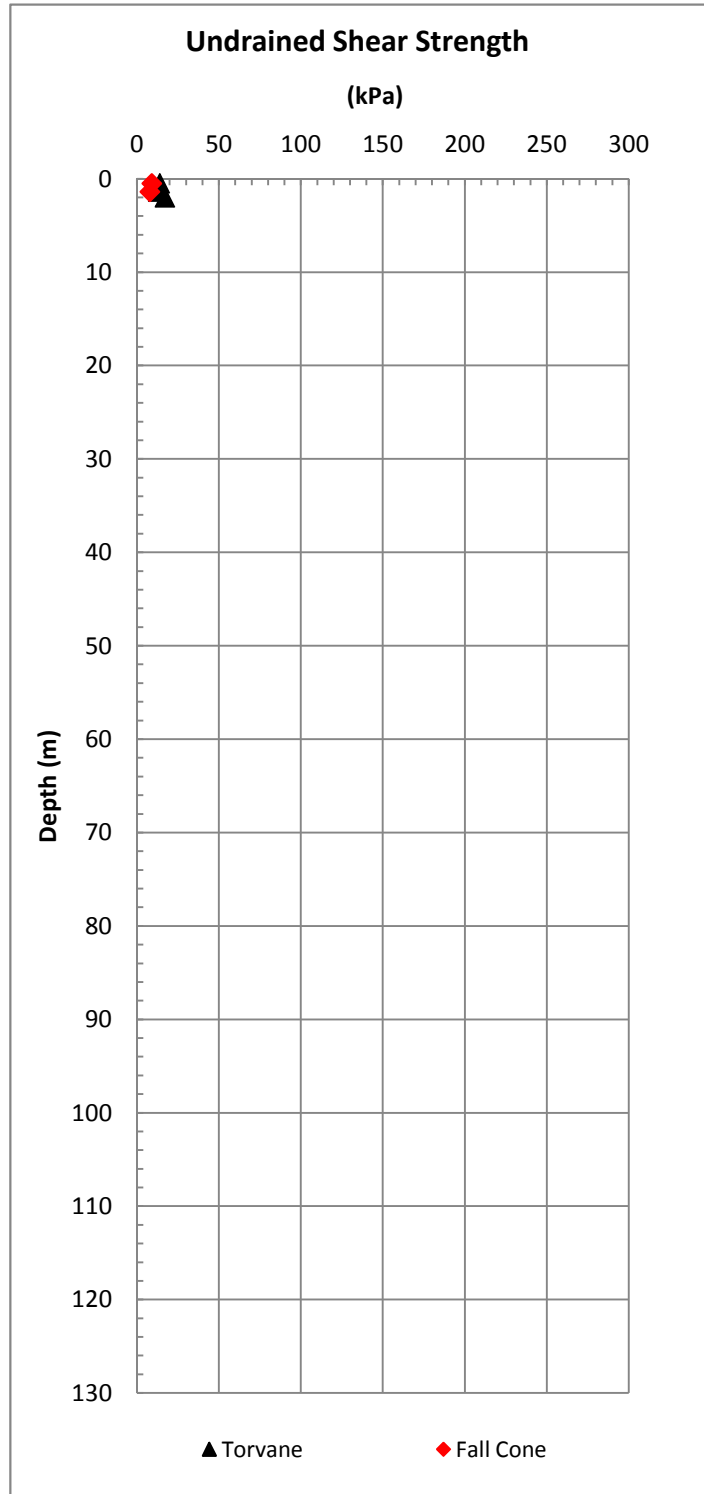
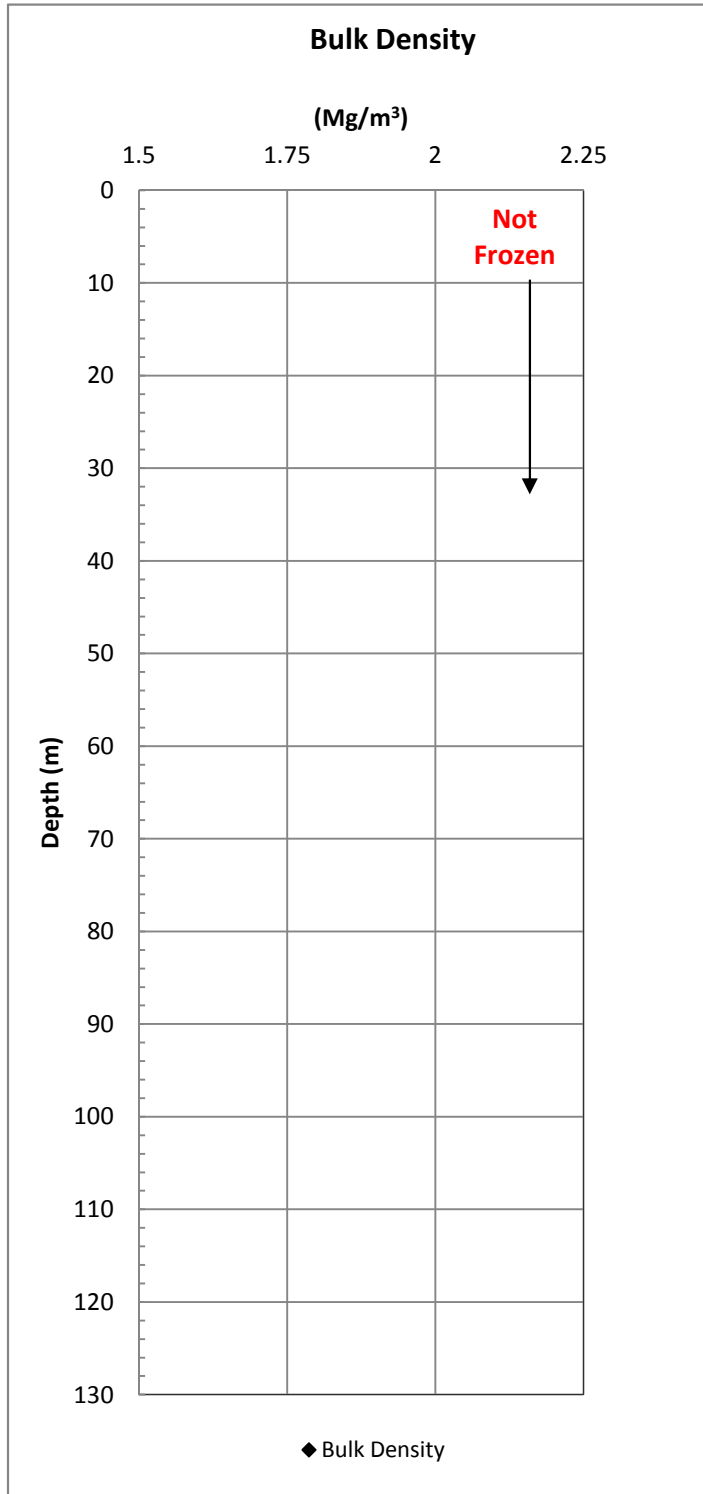


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Nerlerk B-Ner 1:5

Figure C.3

10033 Beaufort Data

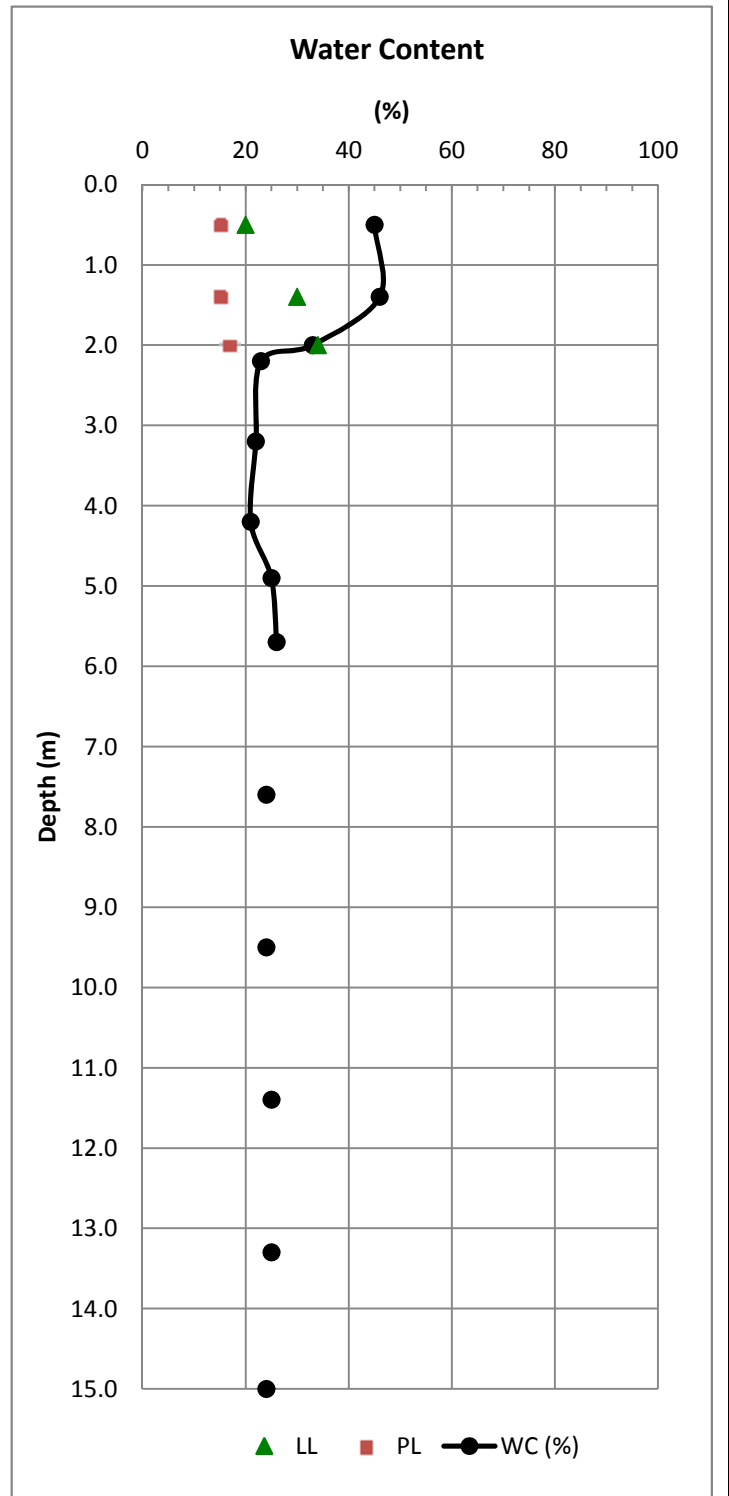
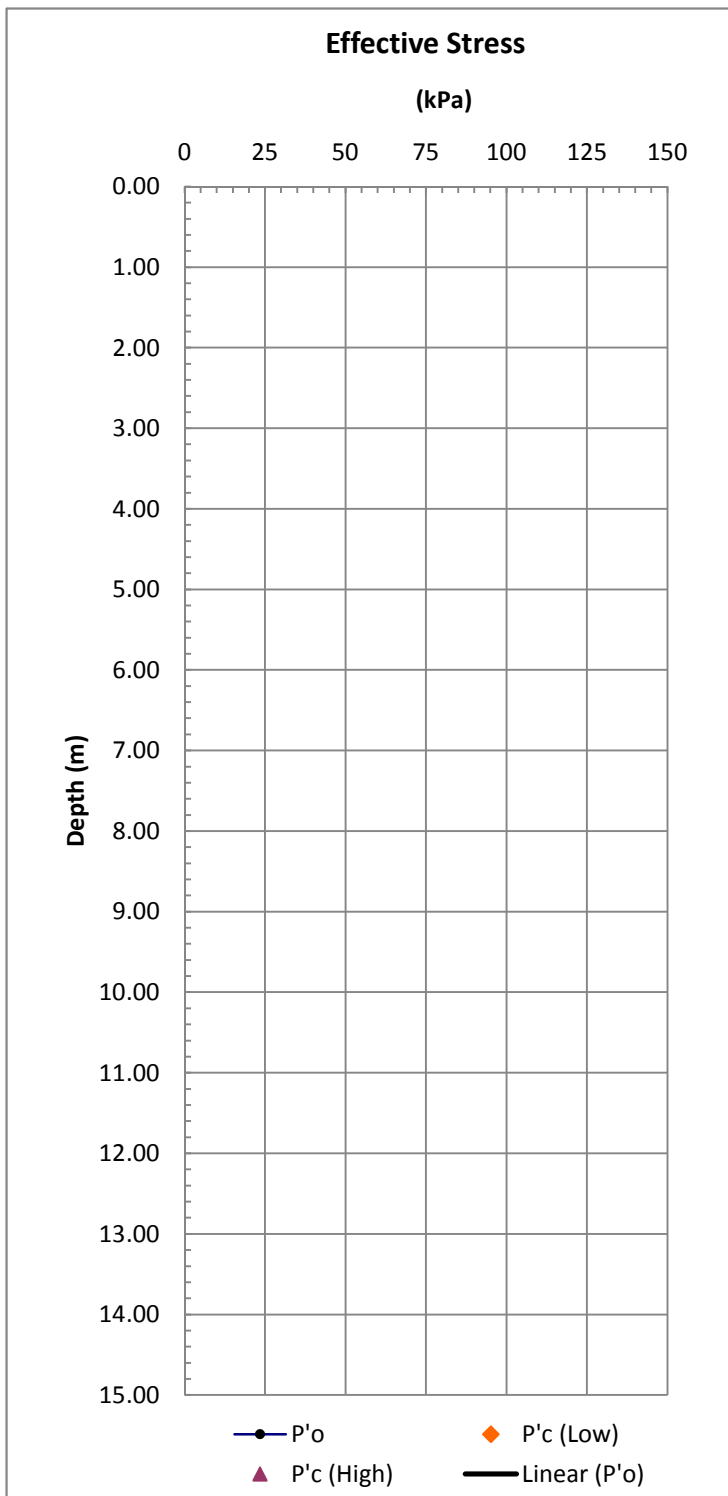
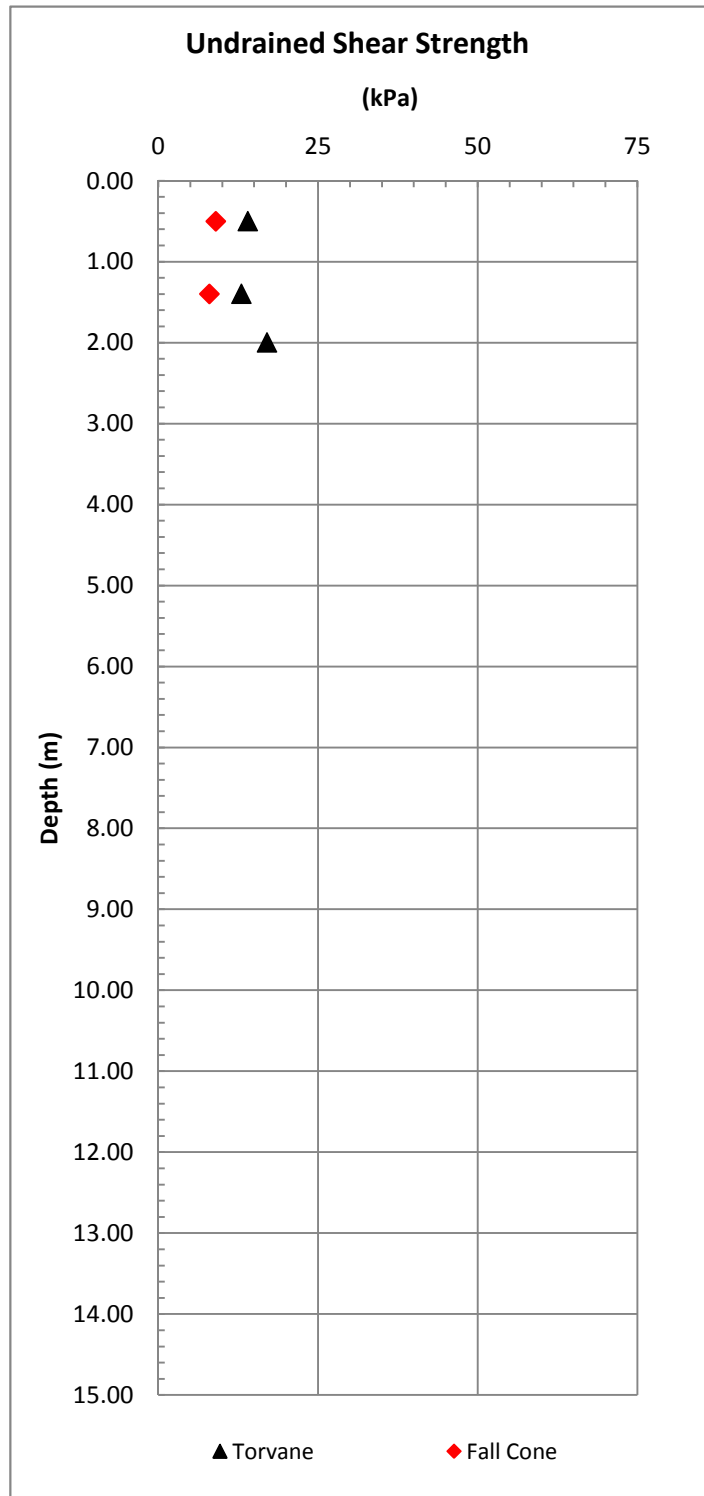
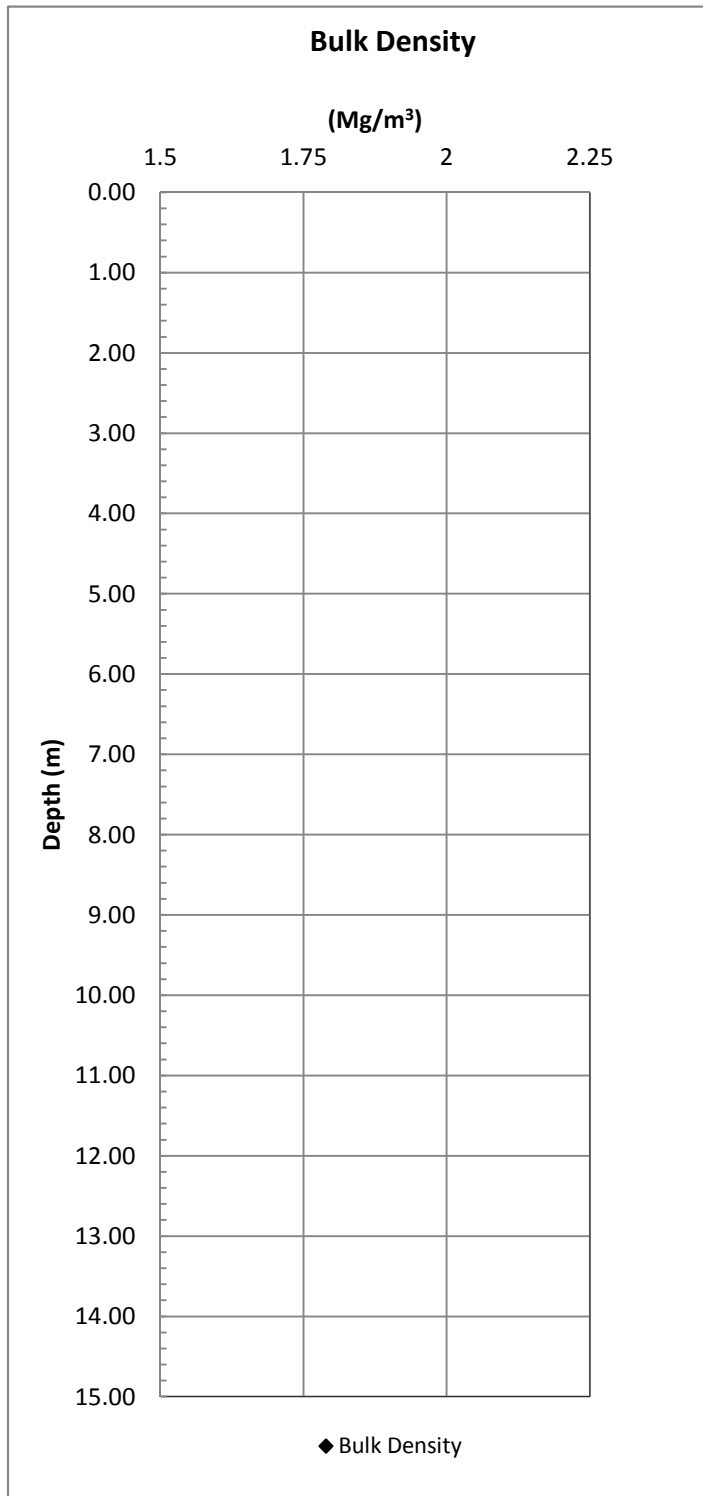


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Figure C.3

10033 Beaufort Data

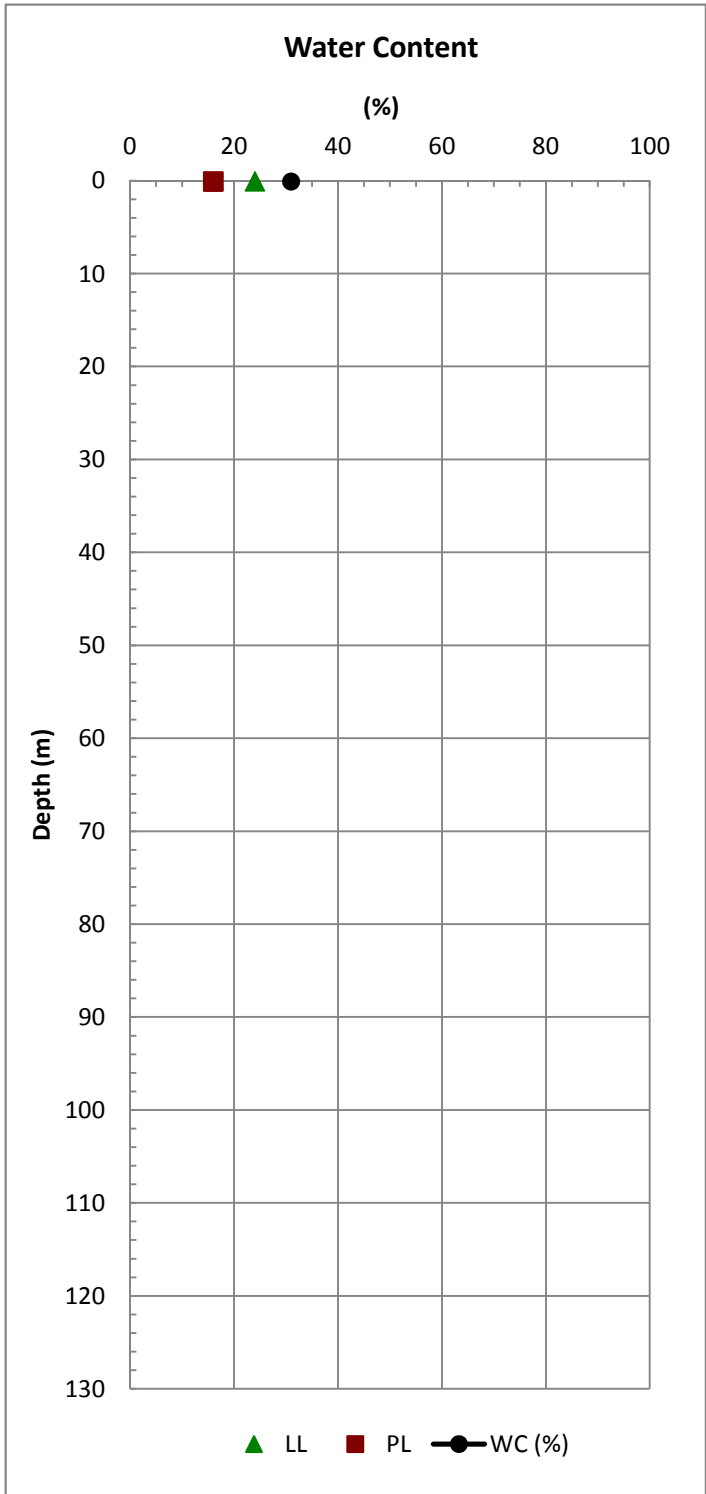
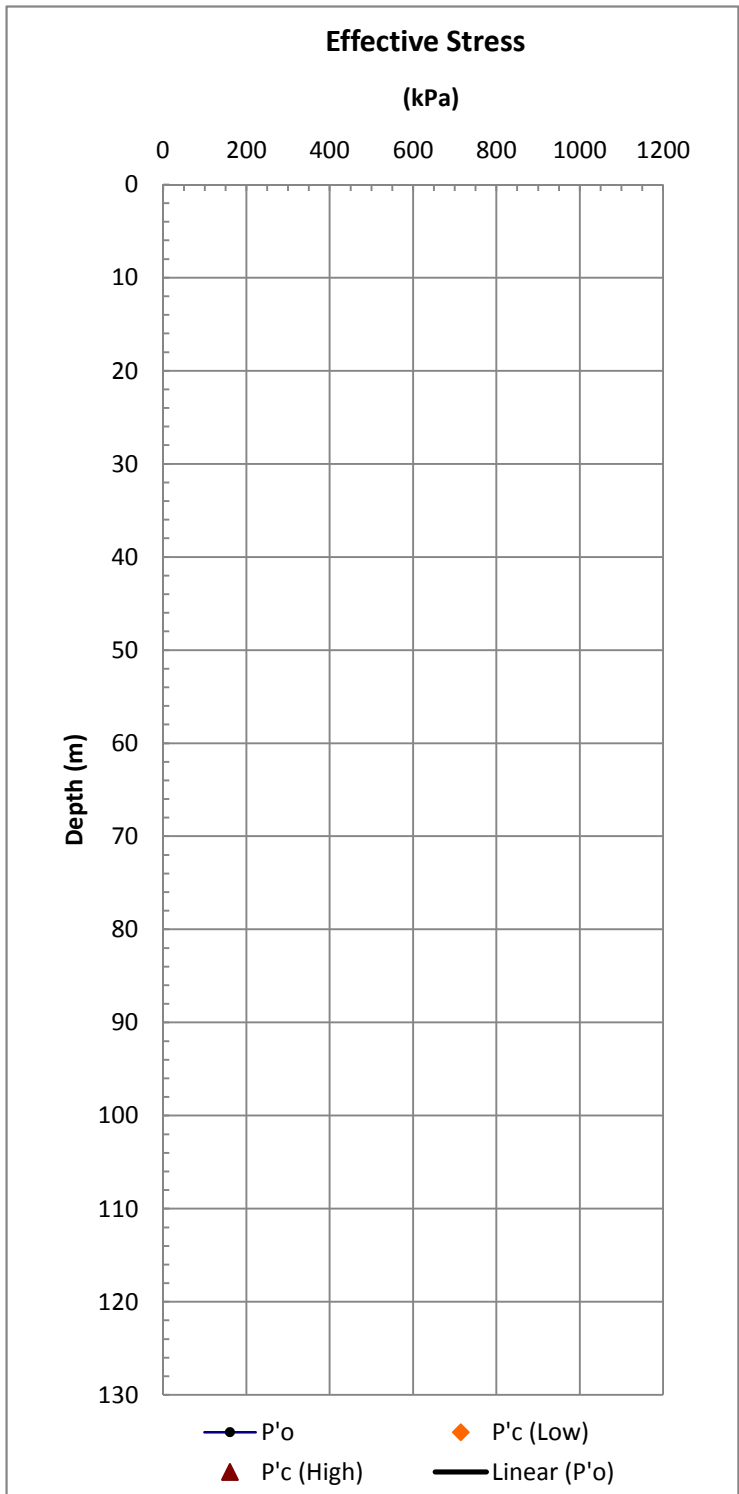
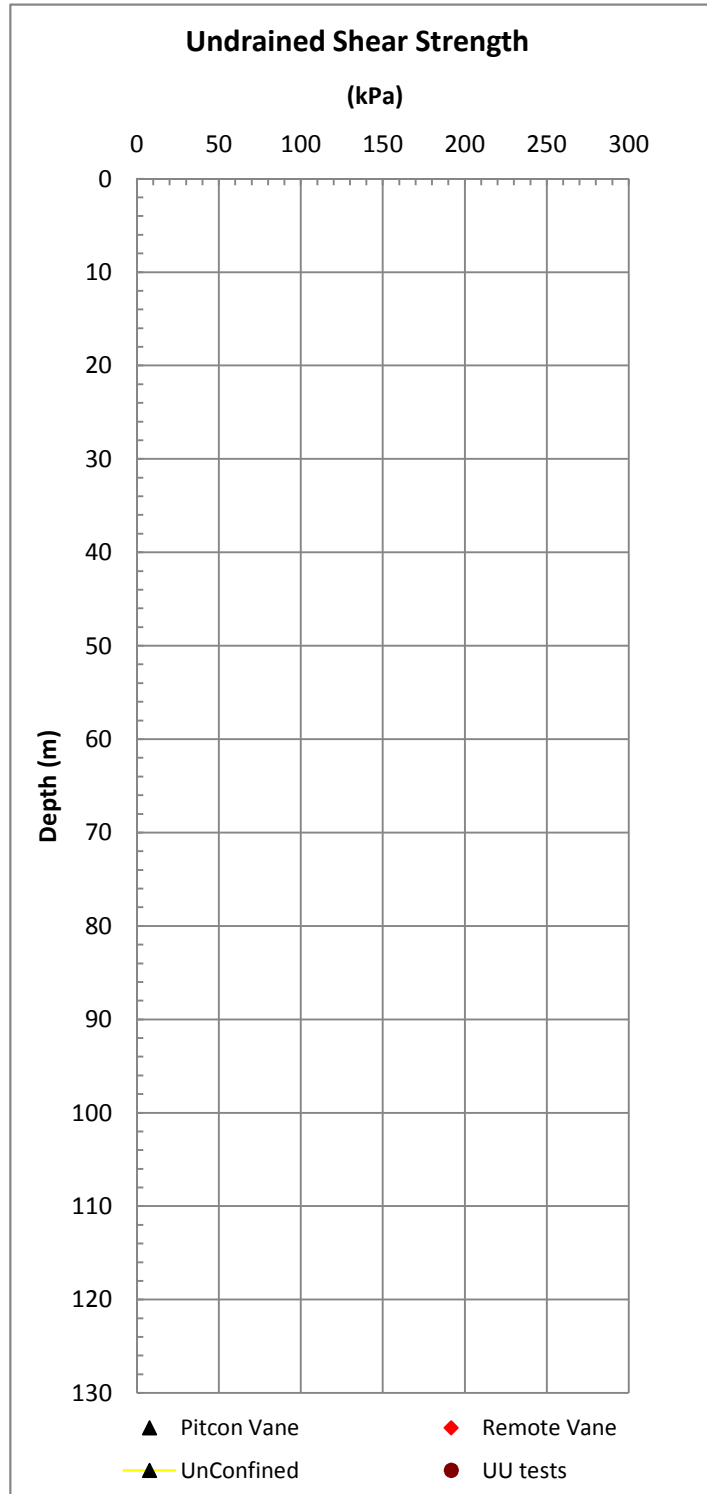
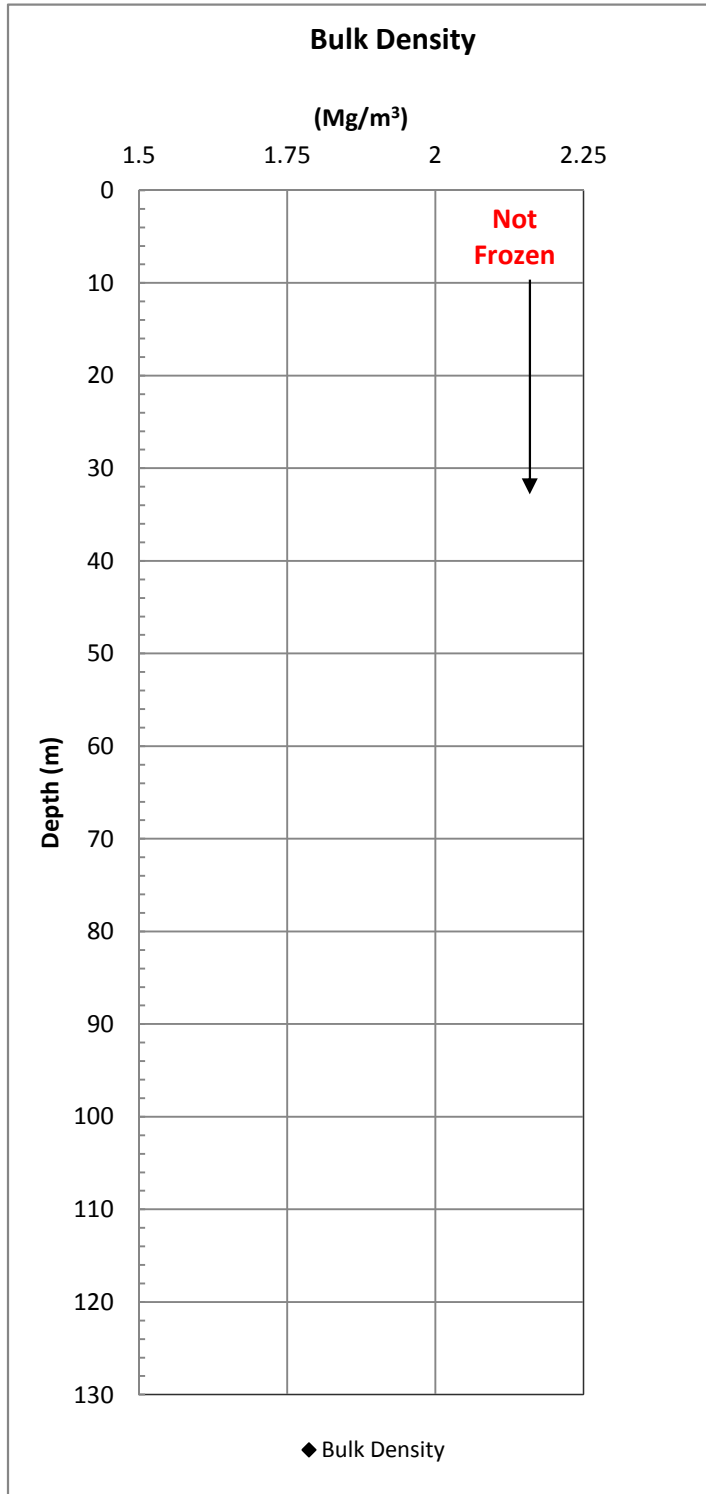


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Nerlerk B-Ner 2:10

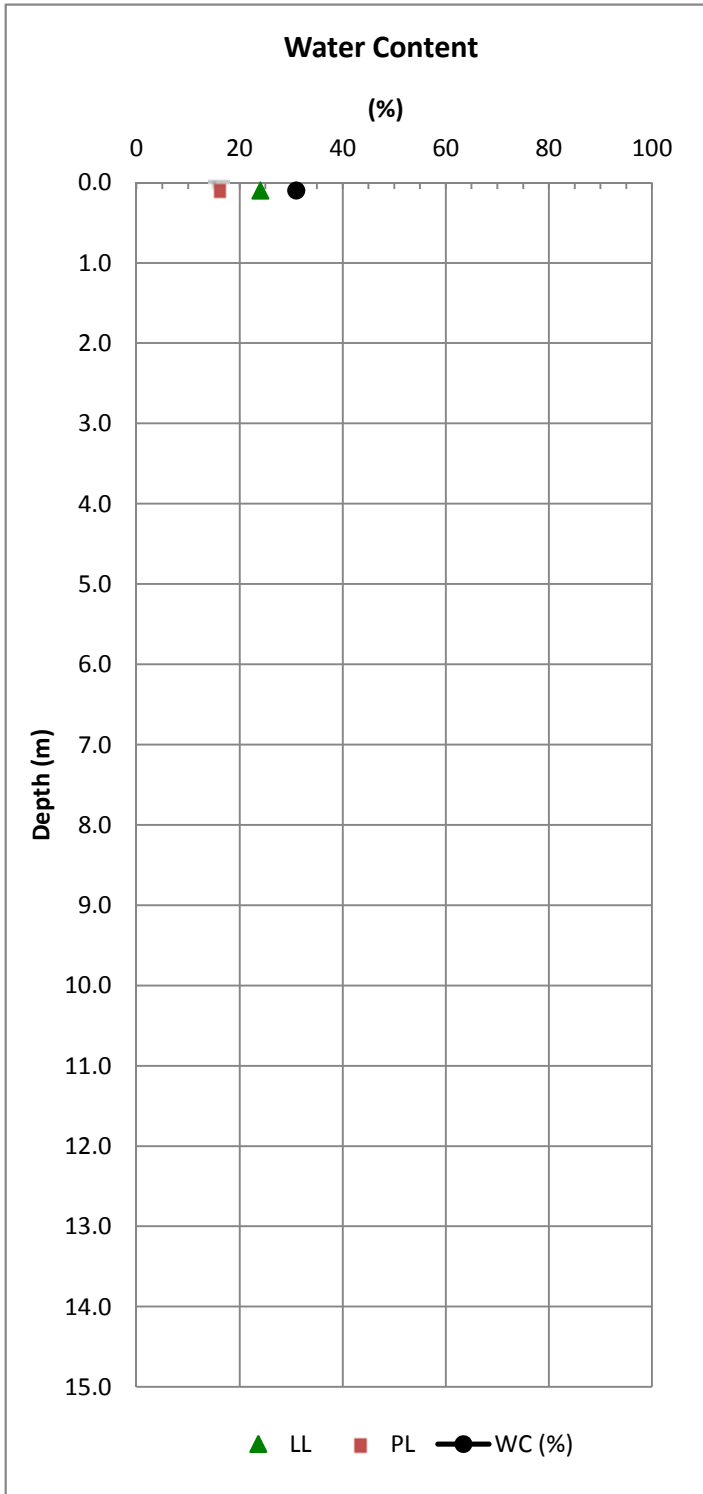
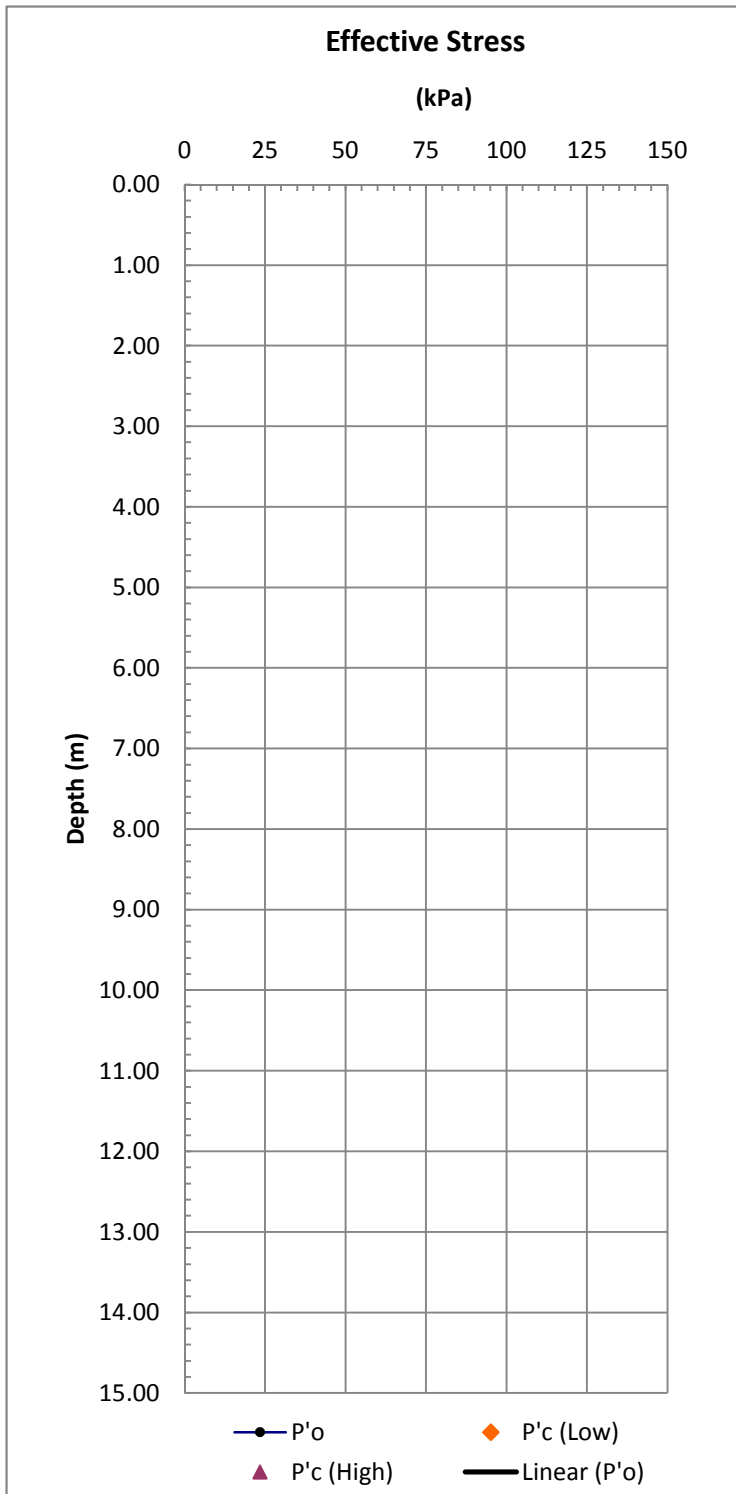
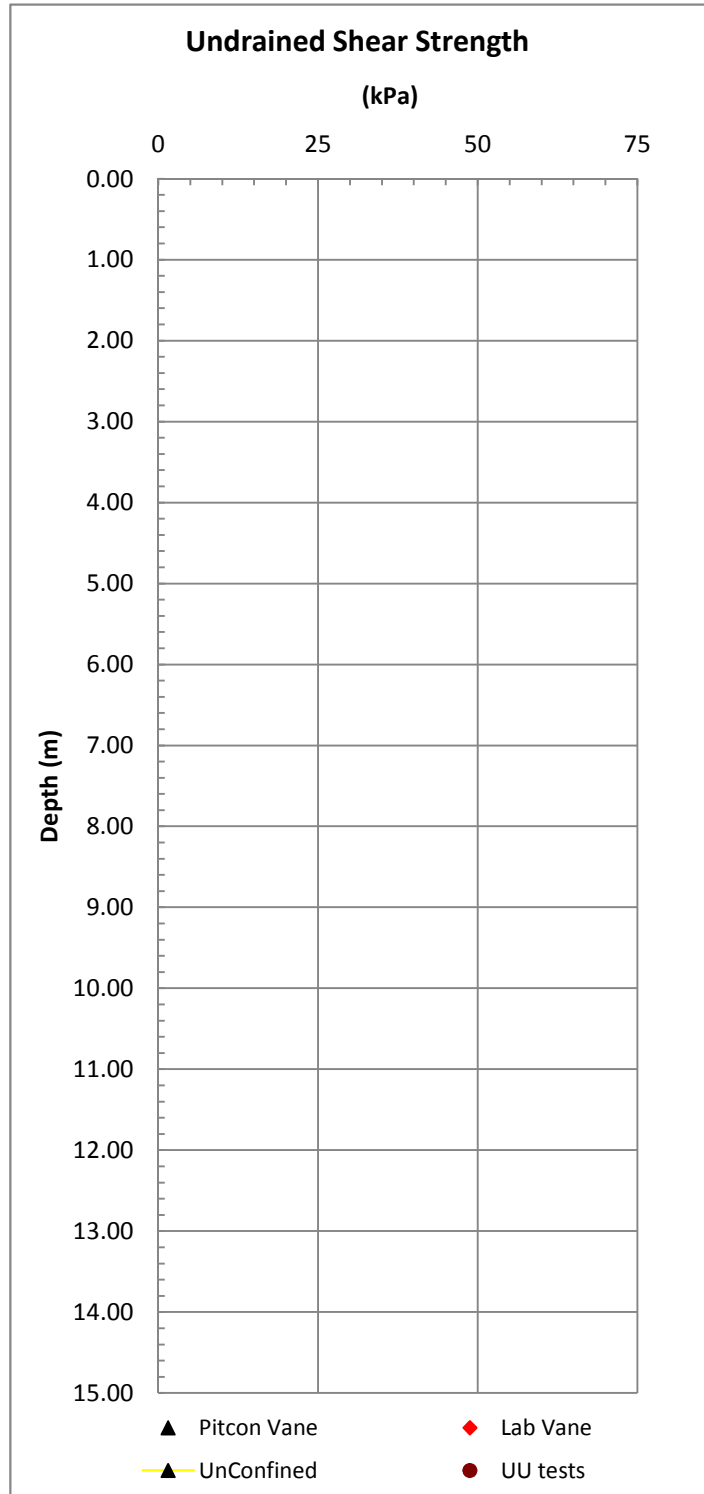
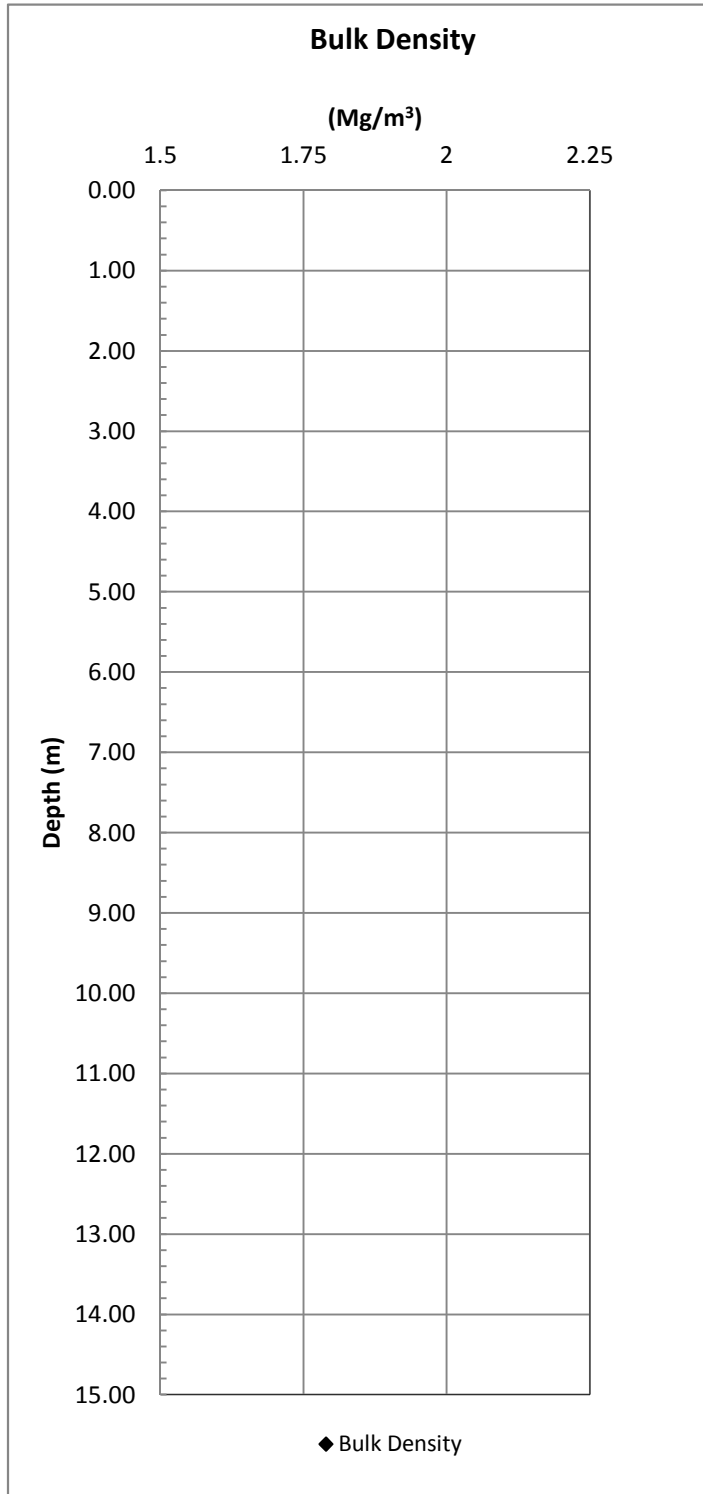
Figure C.3

10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

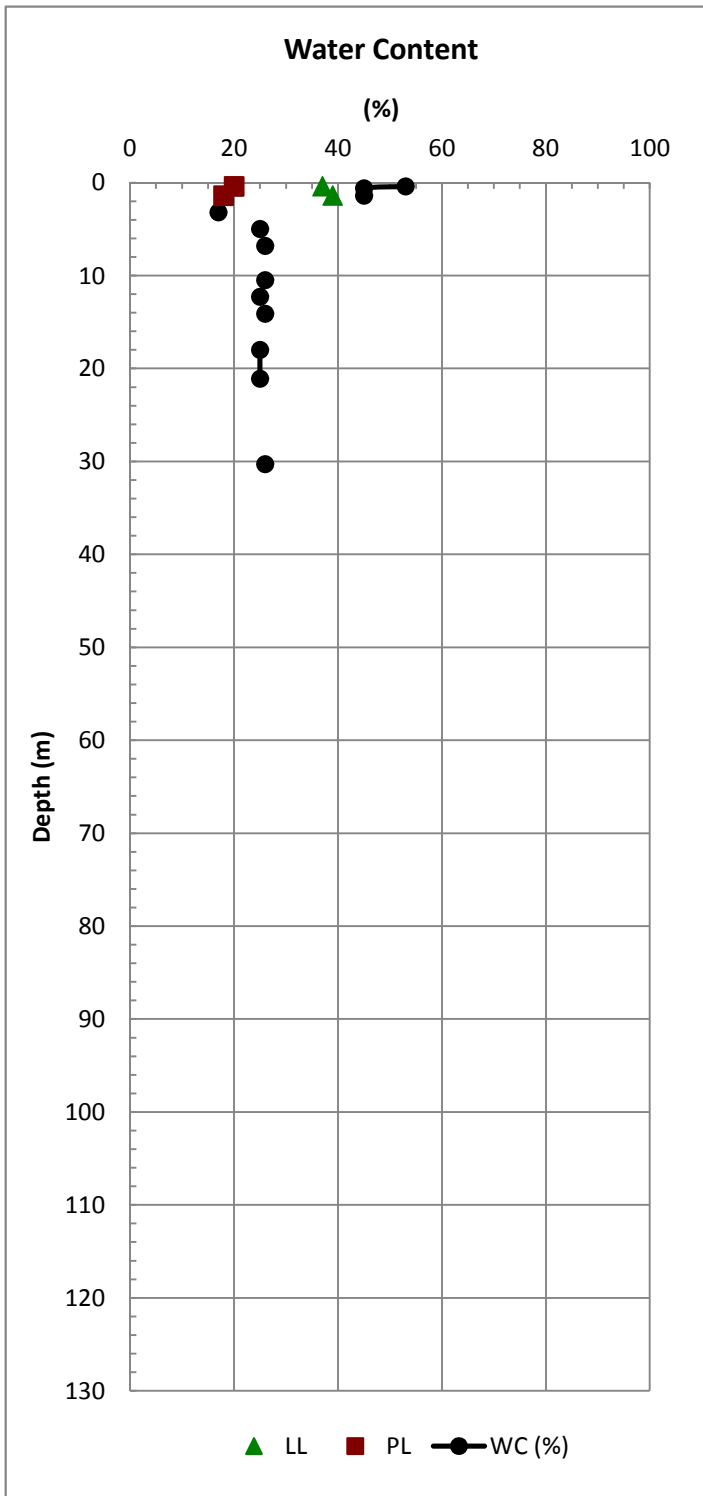
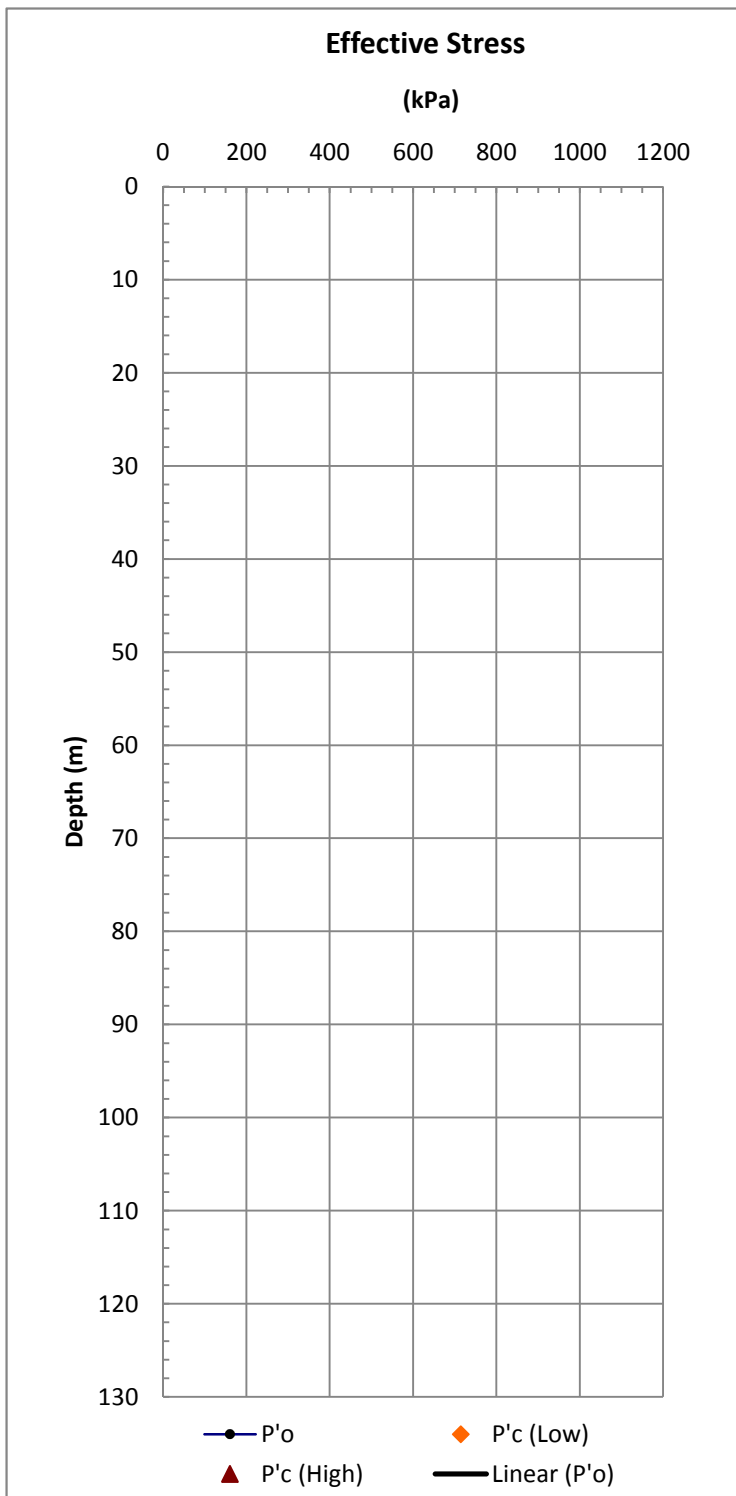
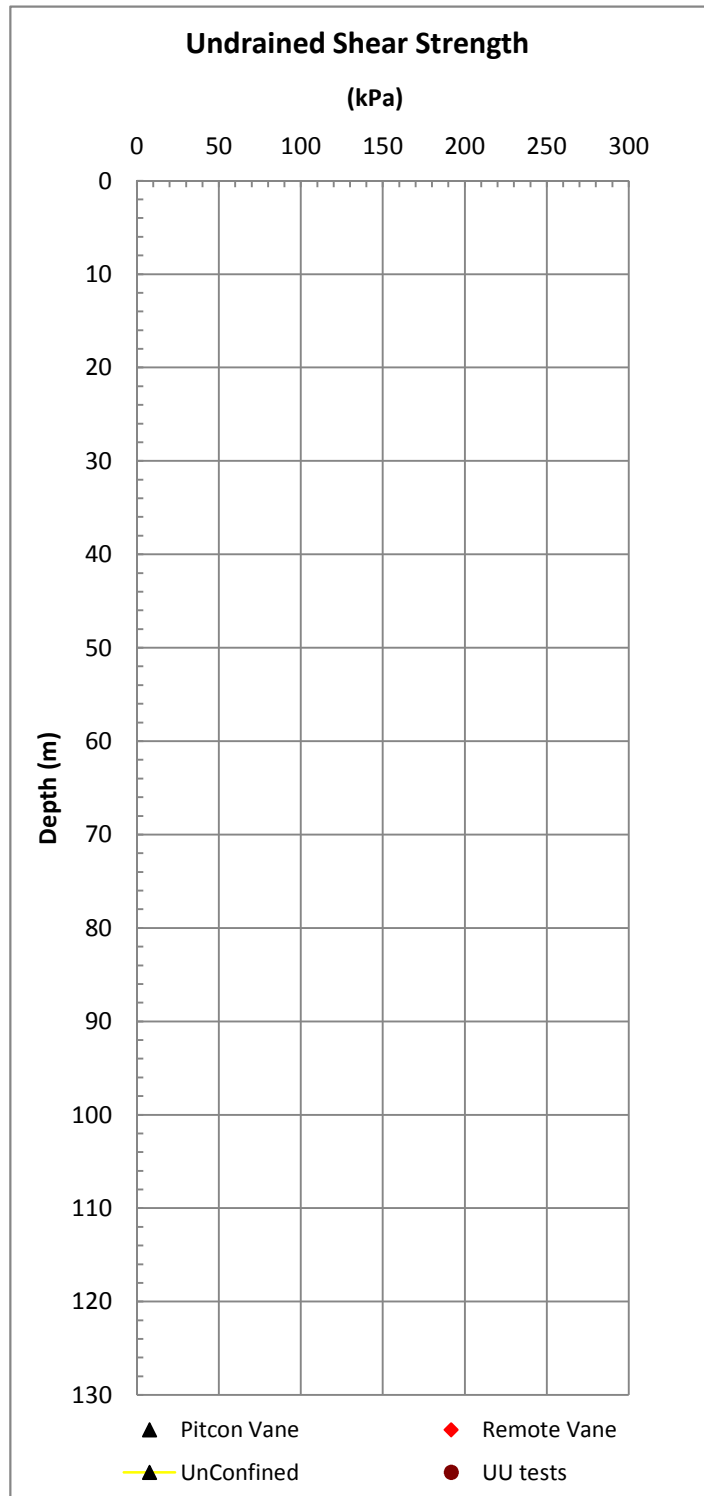
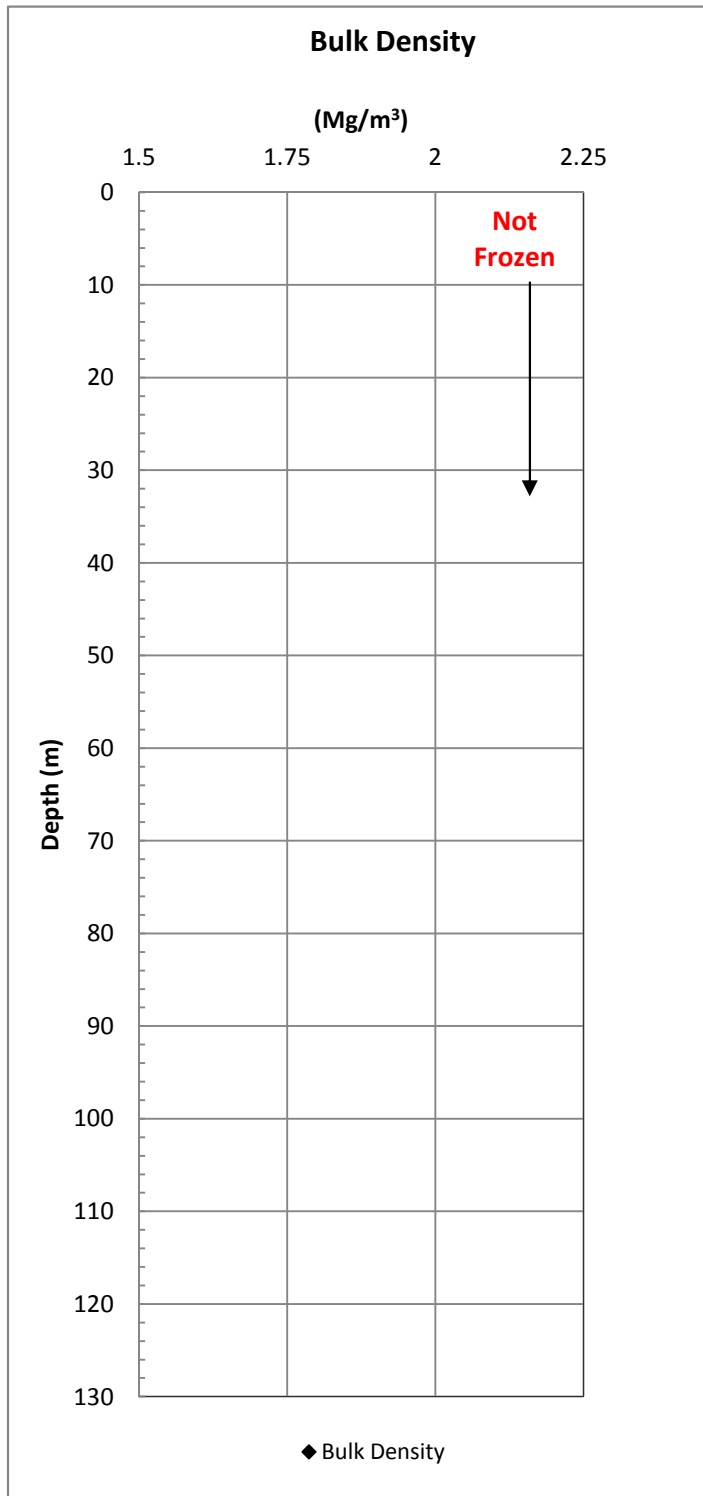


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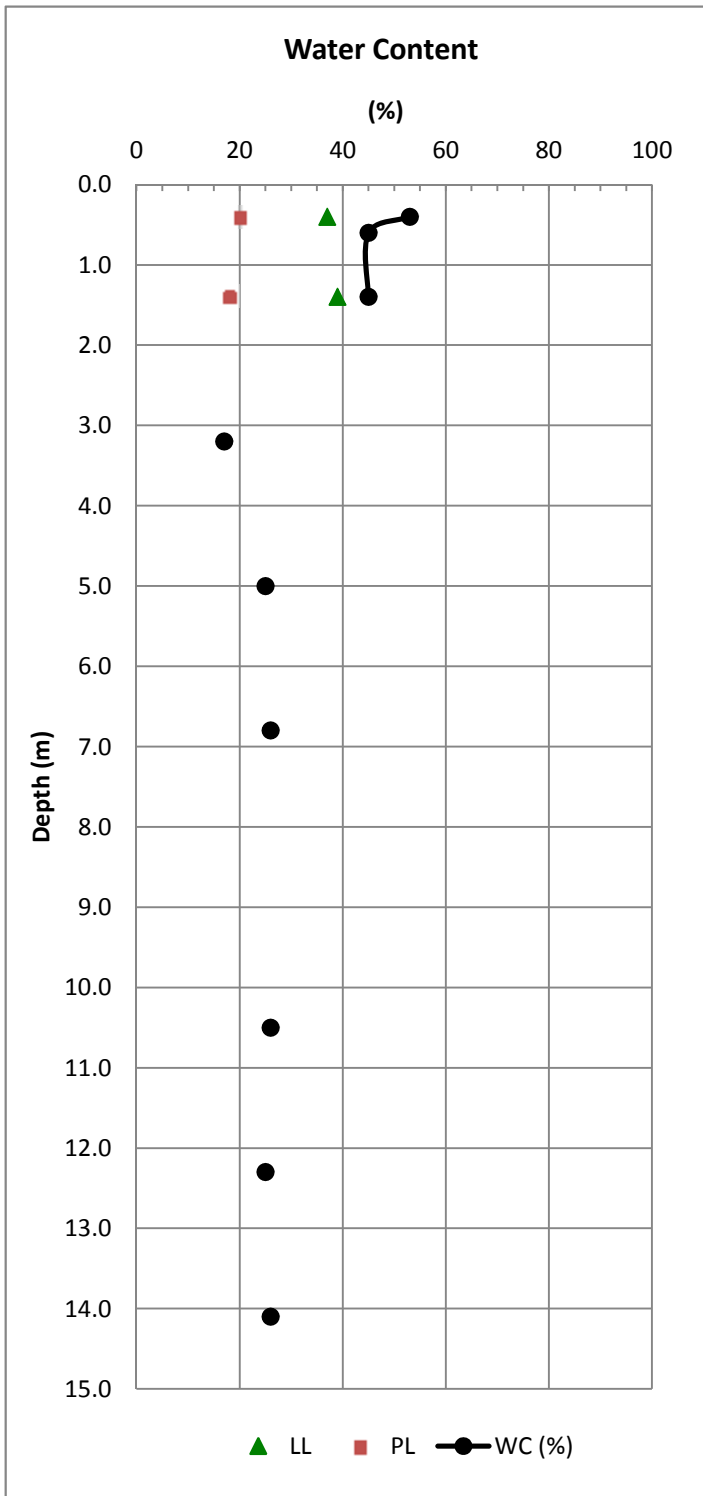
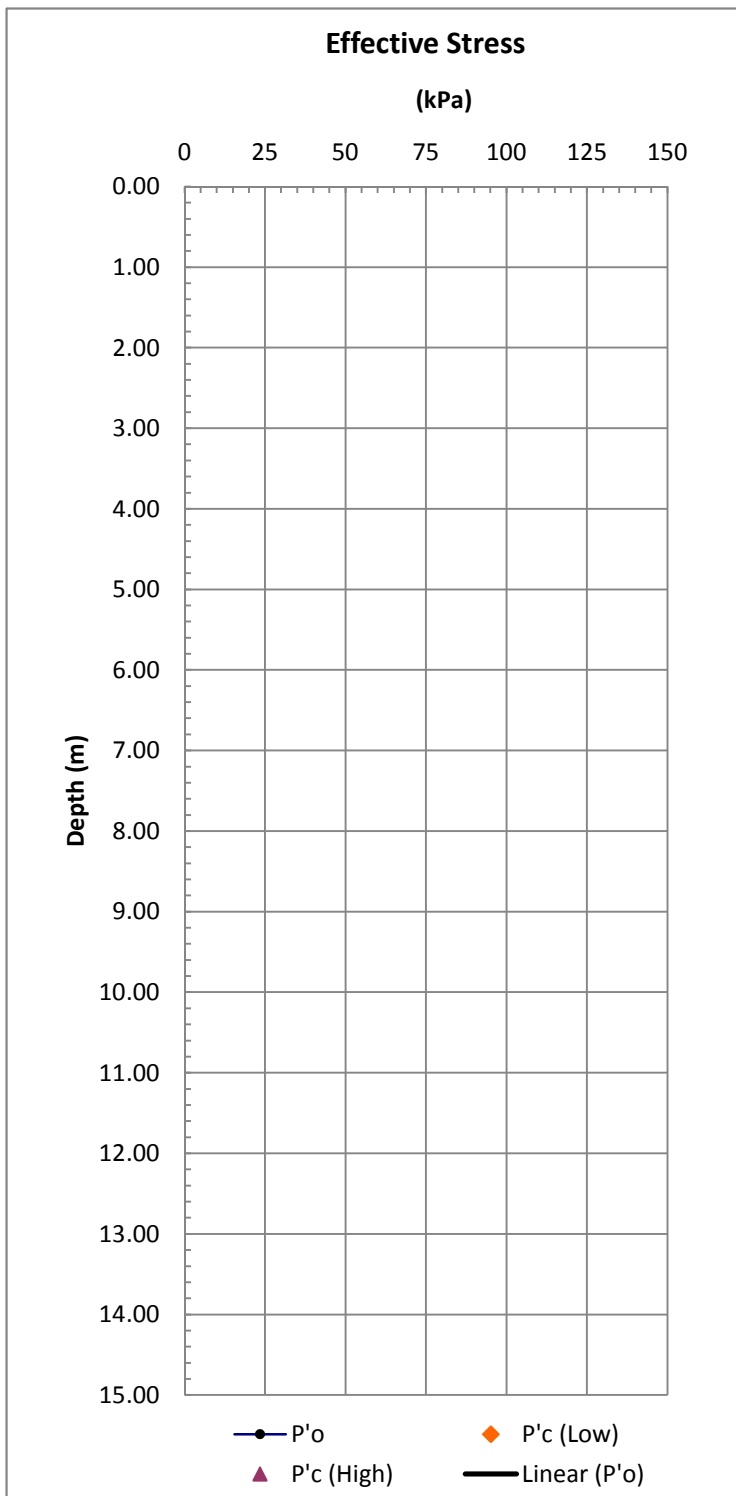
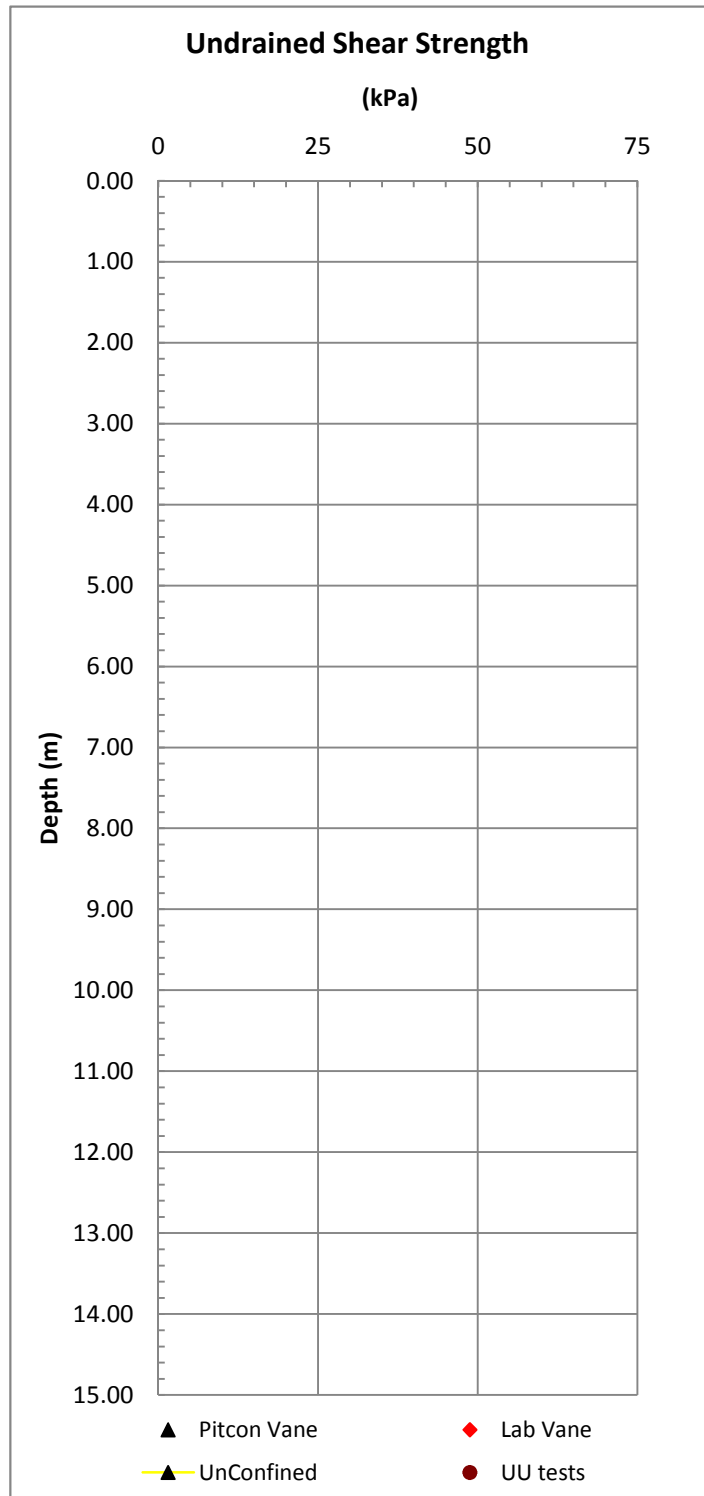
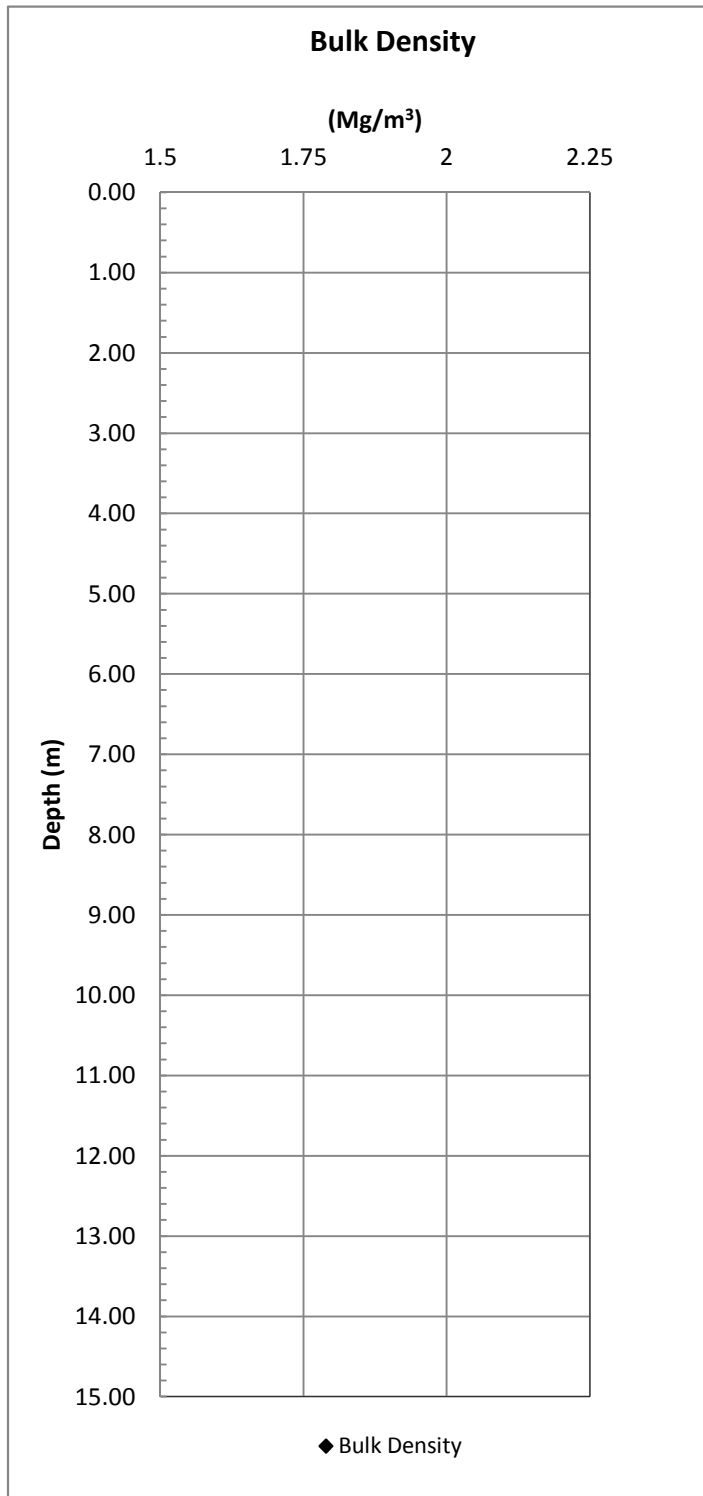
Figure C.3

10033 Beaufort Data



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Nerlerk B-Ner 2:2
Figure C.3
 10033 Beaufort Data

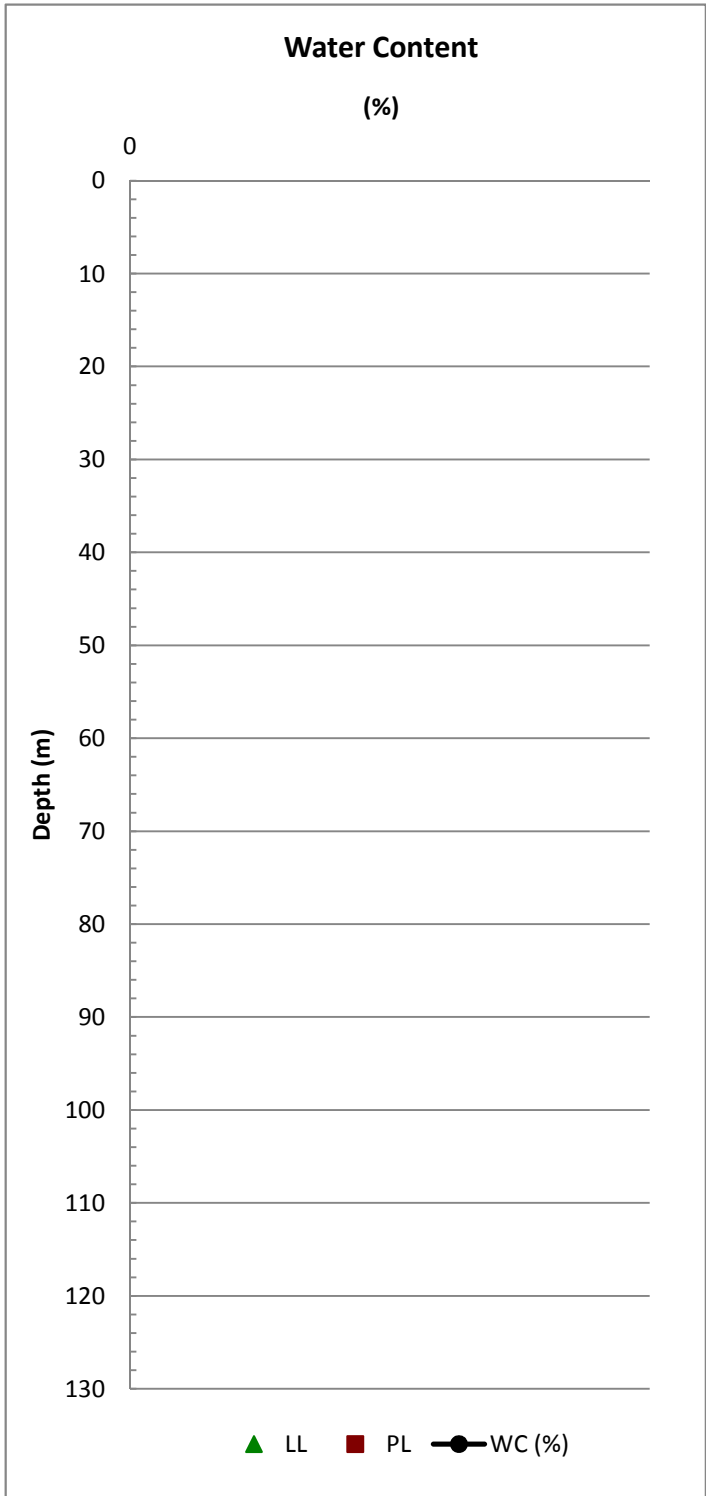
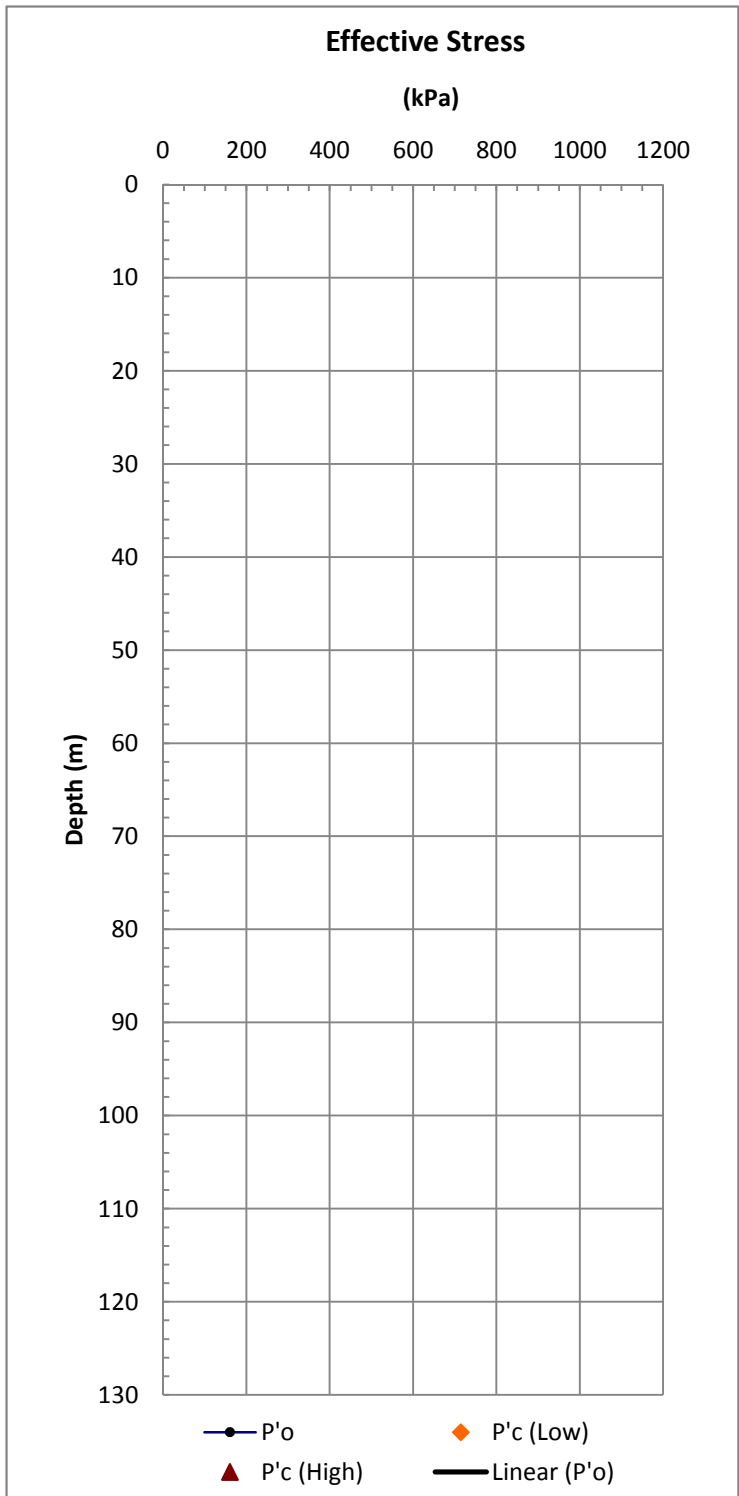
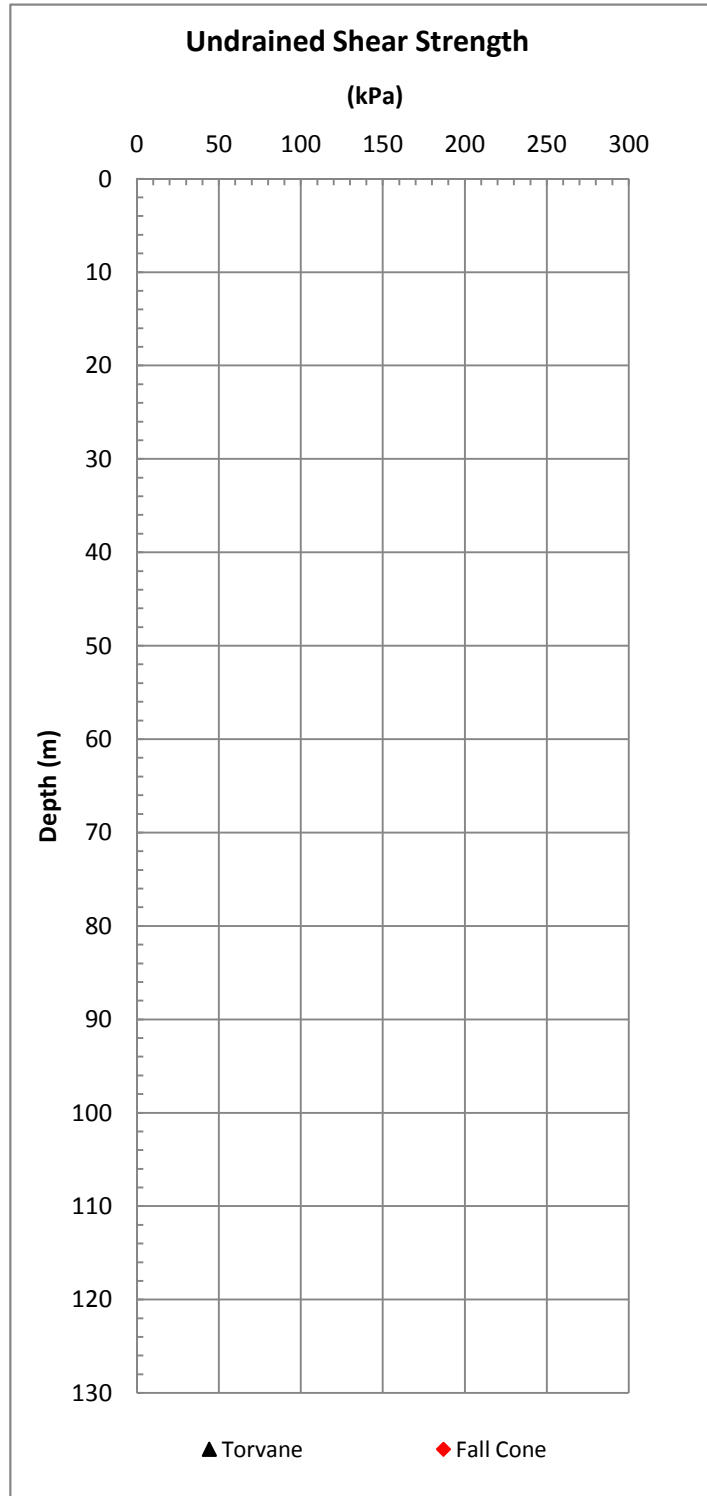
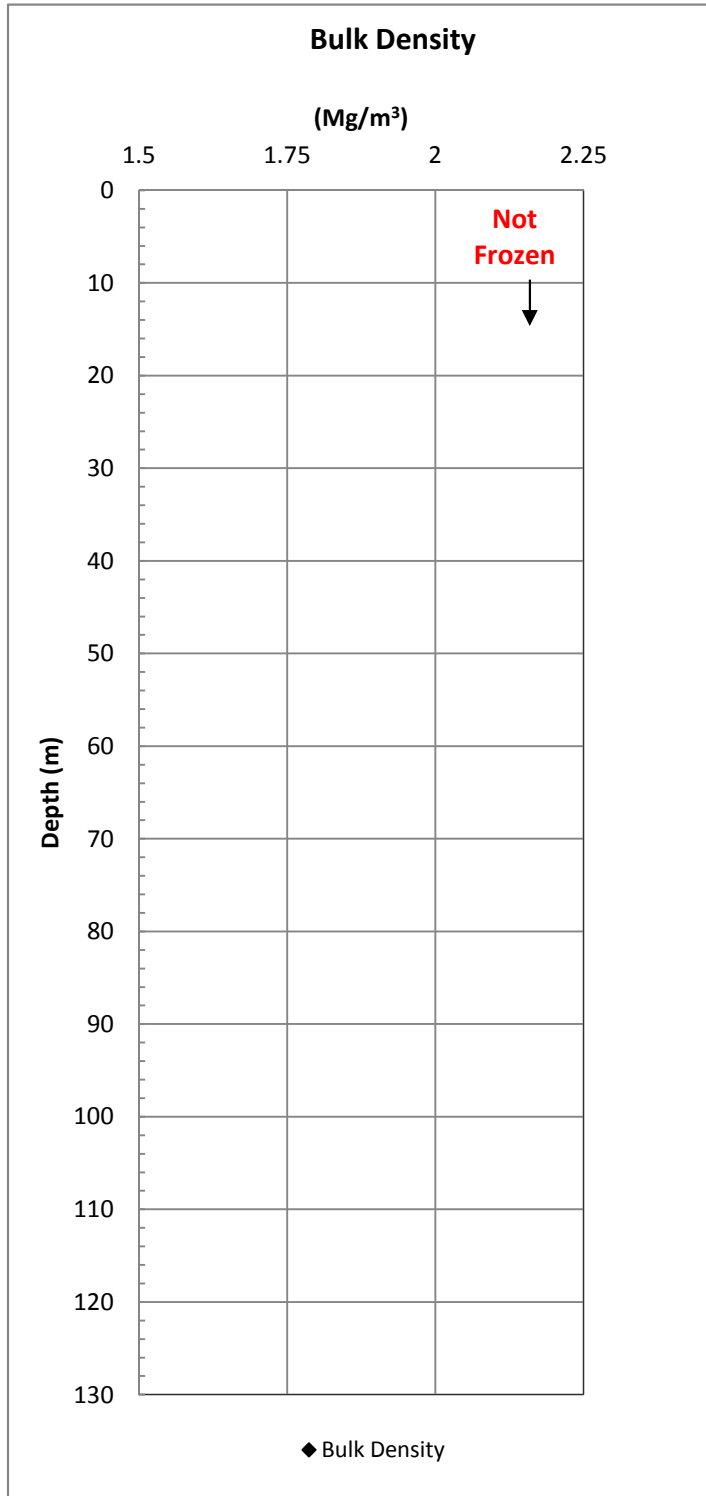


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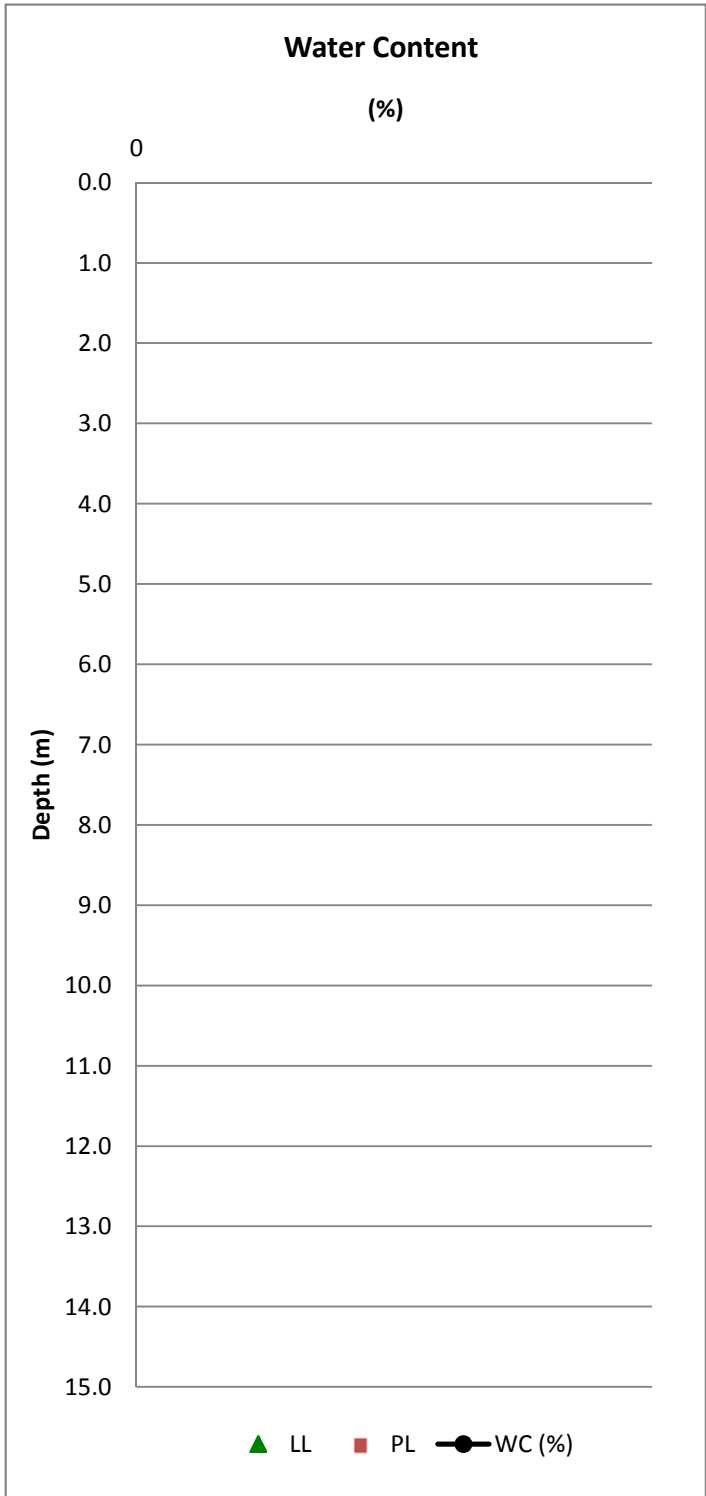
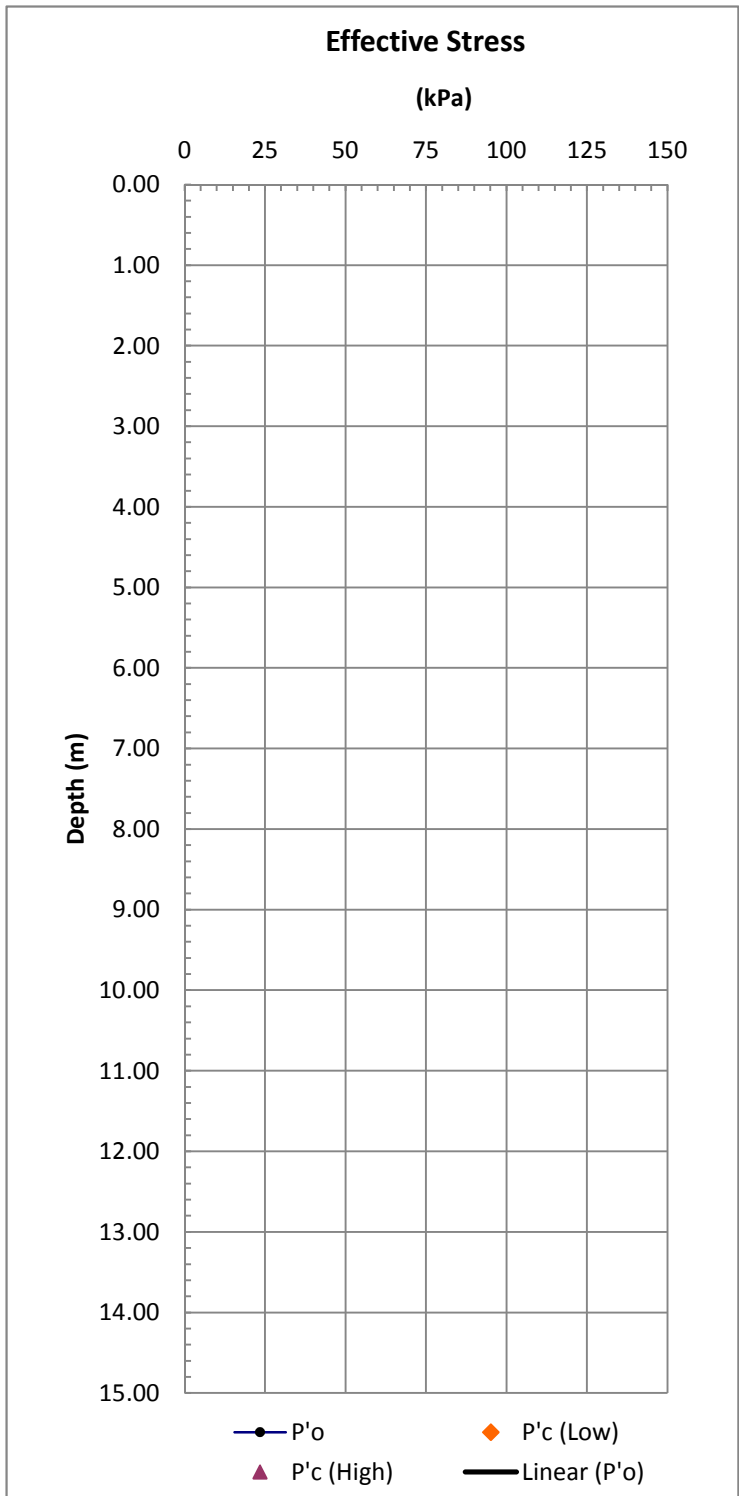
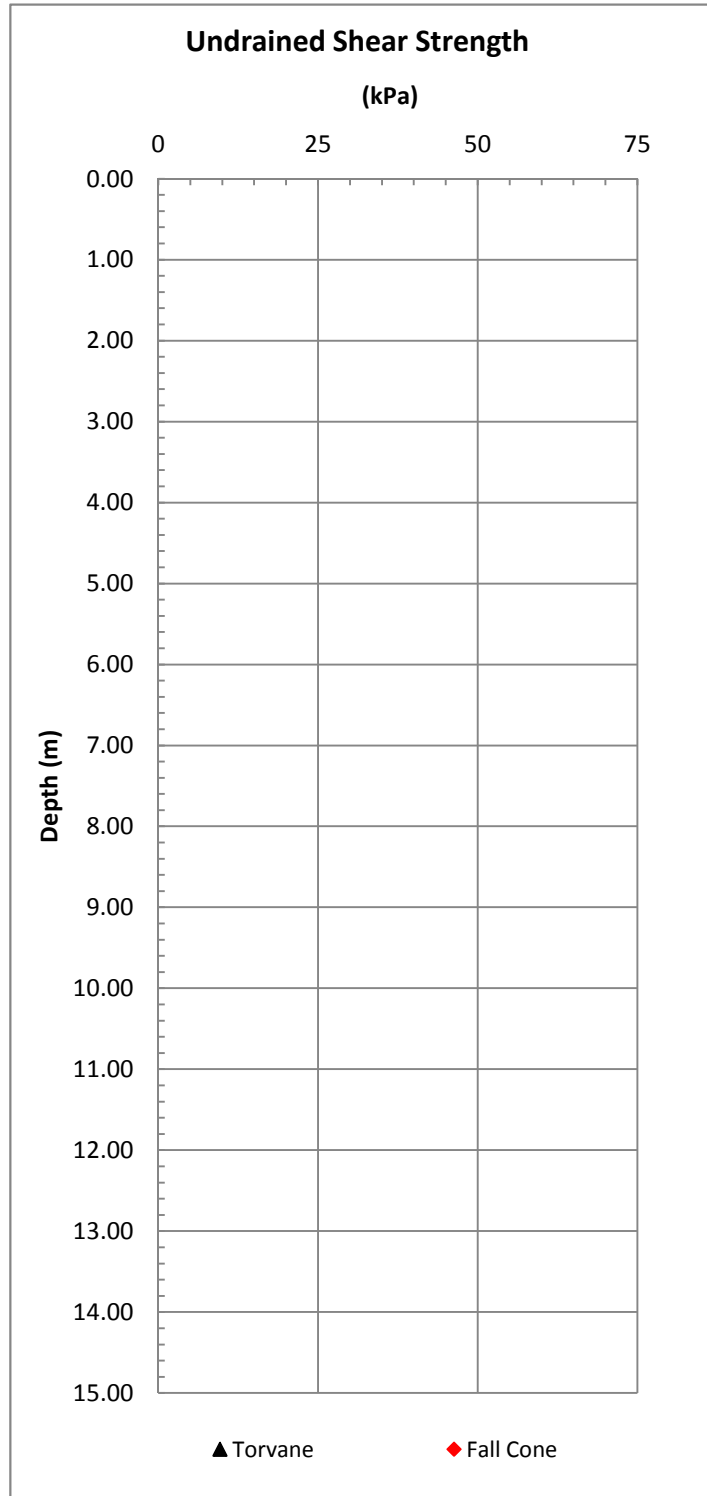
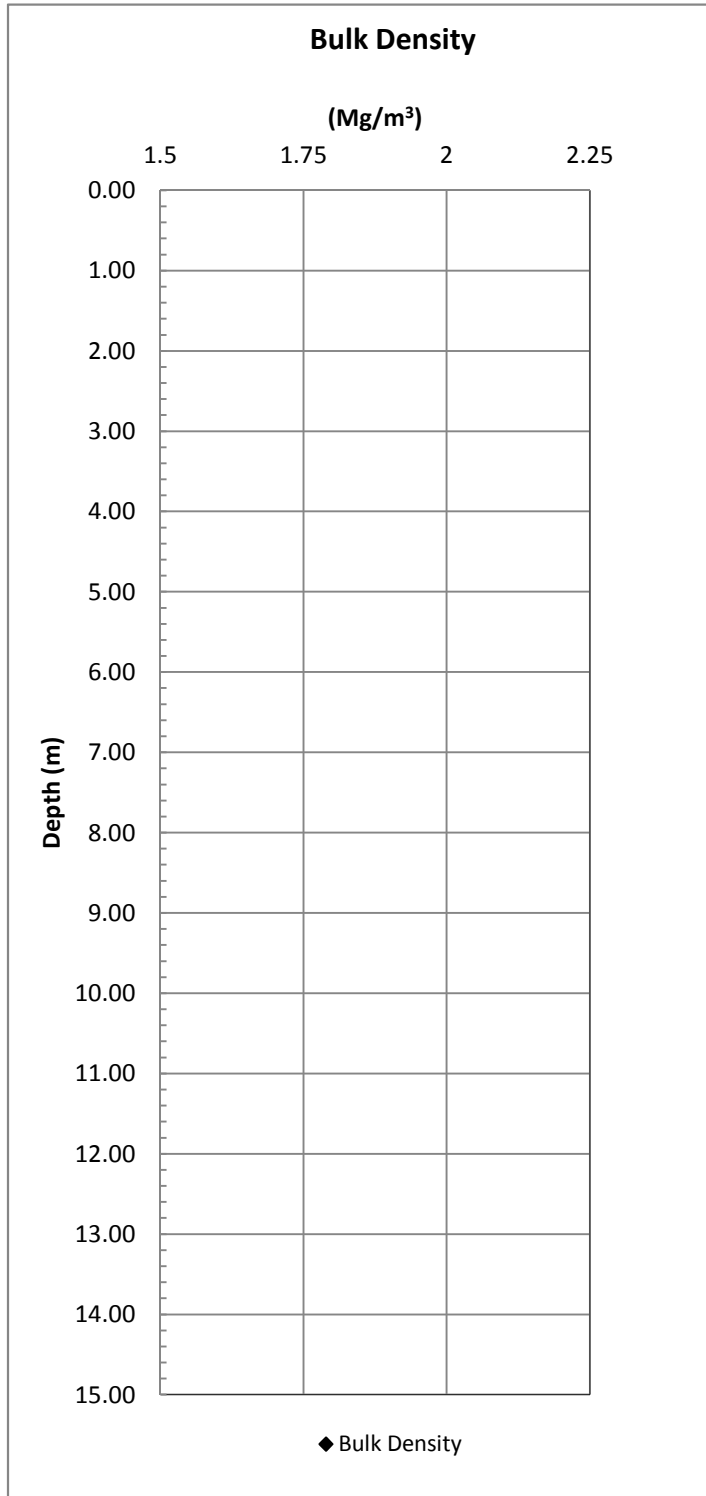
Figure C.3

10033 Beaufort Data



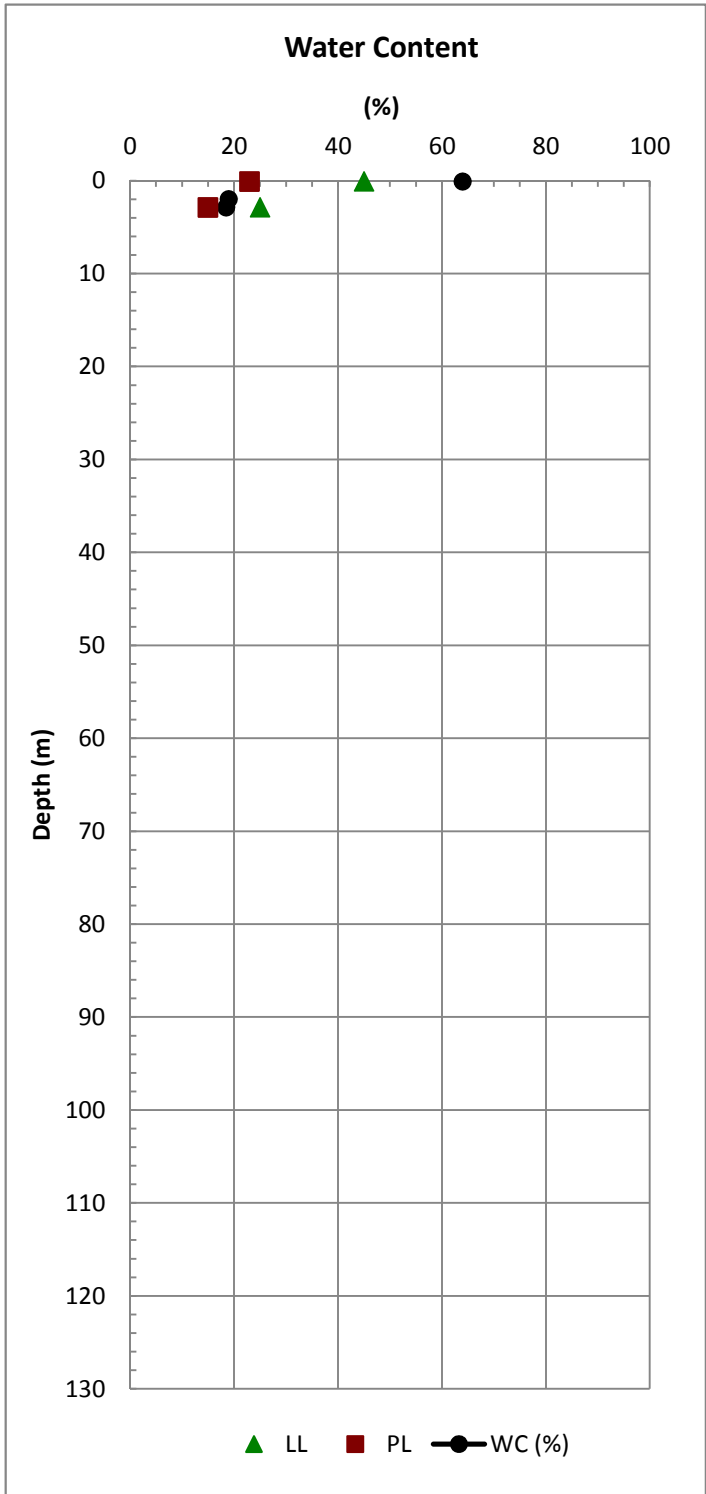
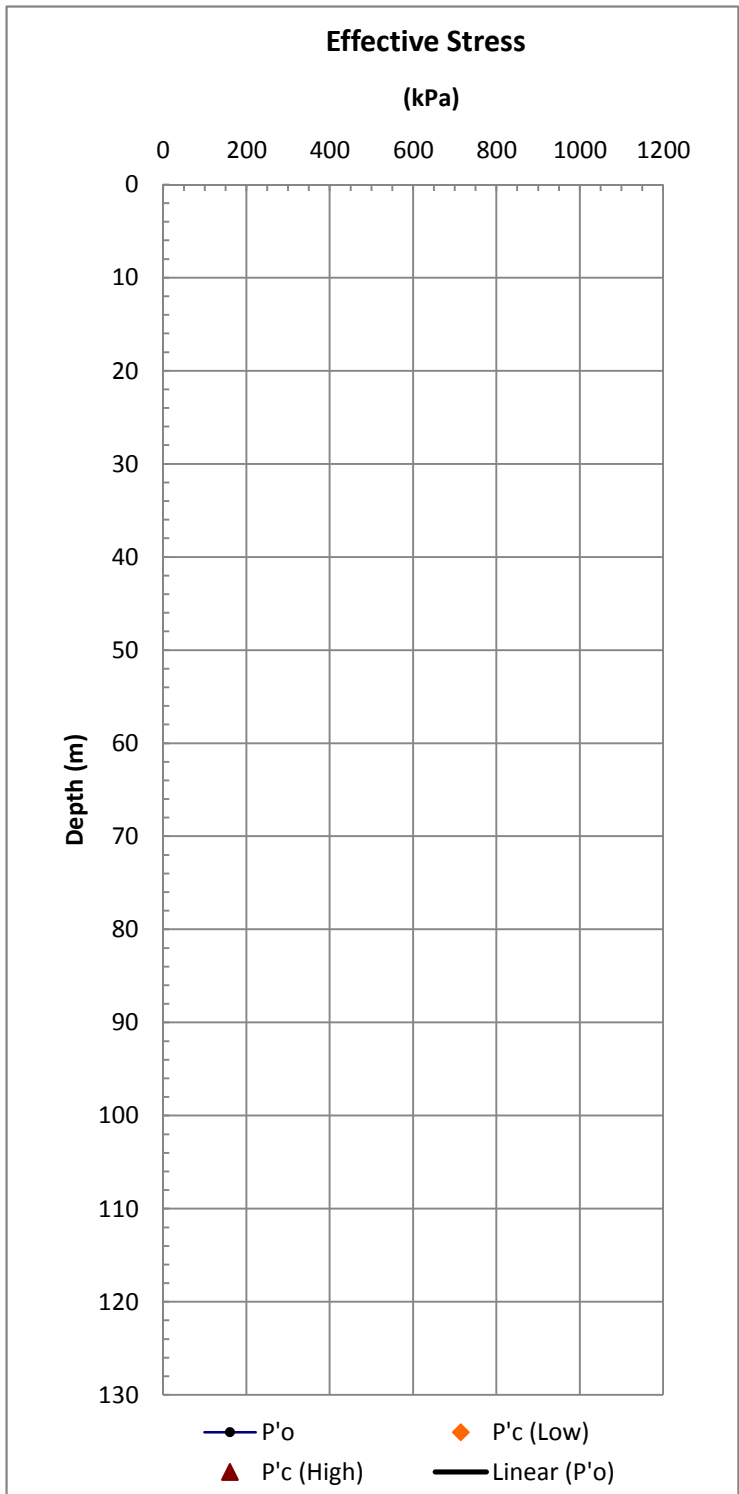
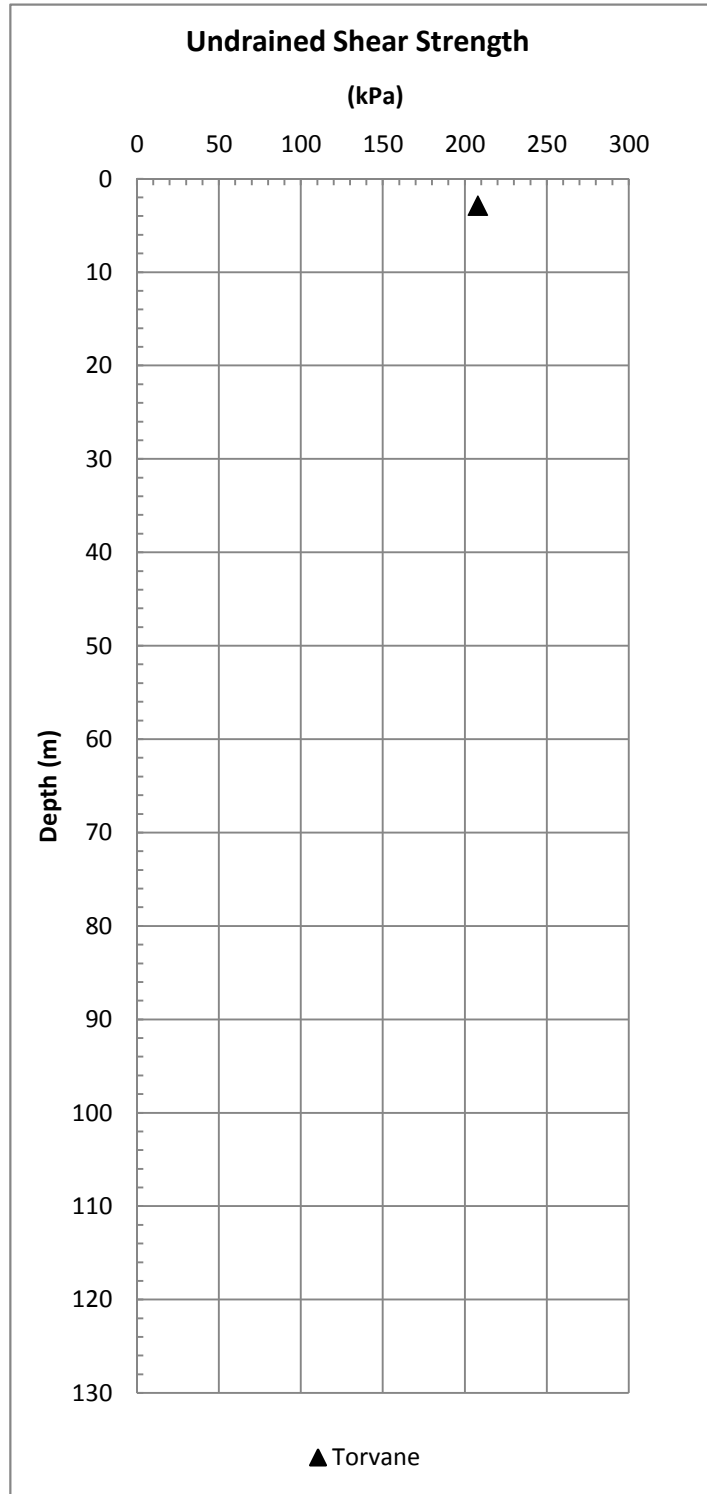
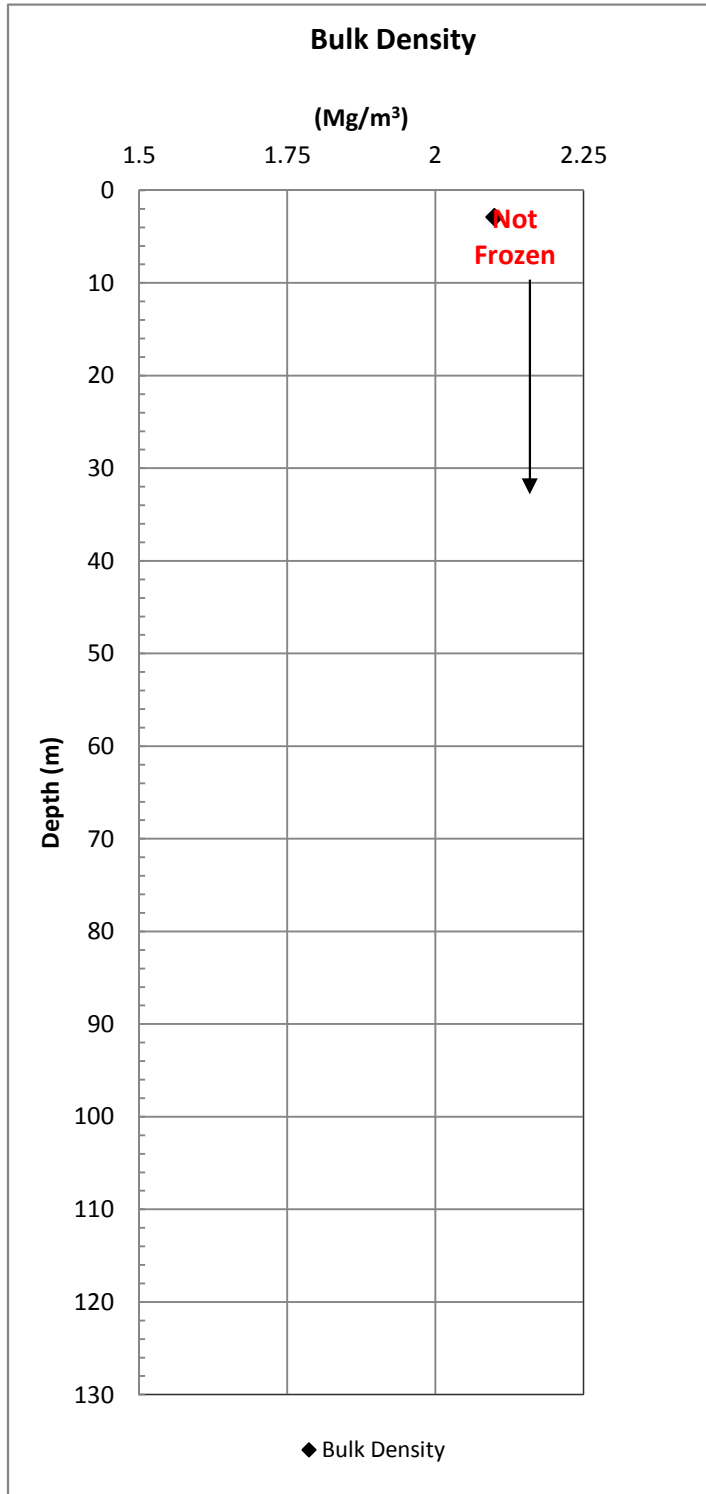
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Nerlerk B-Ner 3:1
Figure C.3
 10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

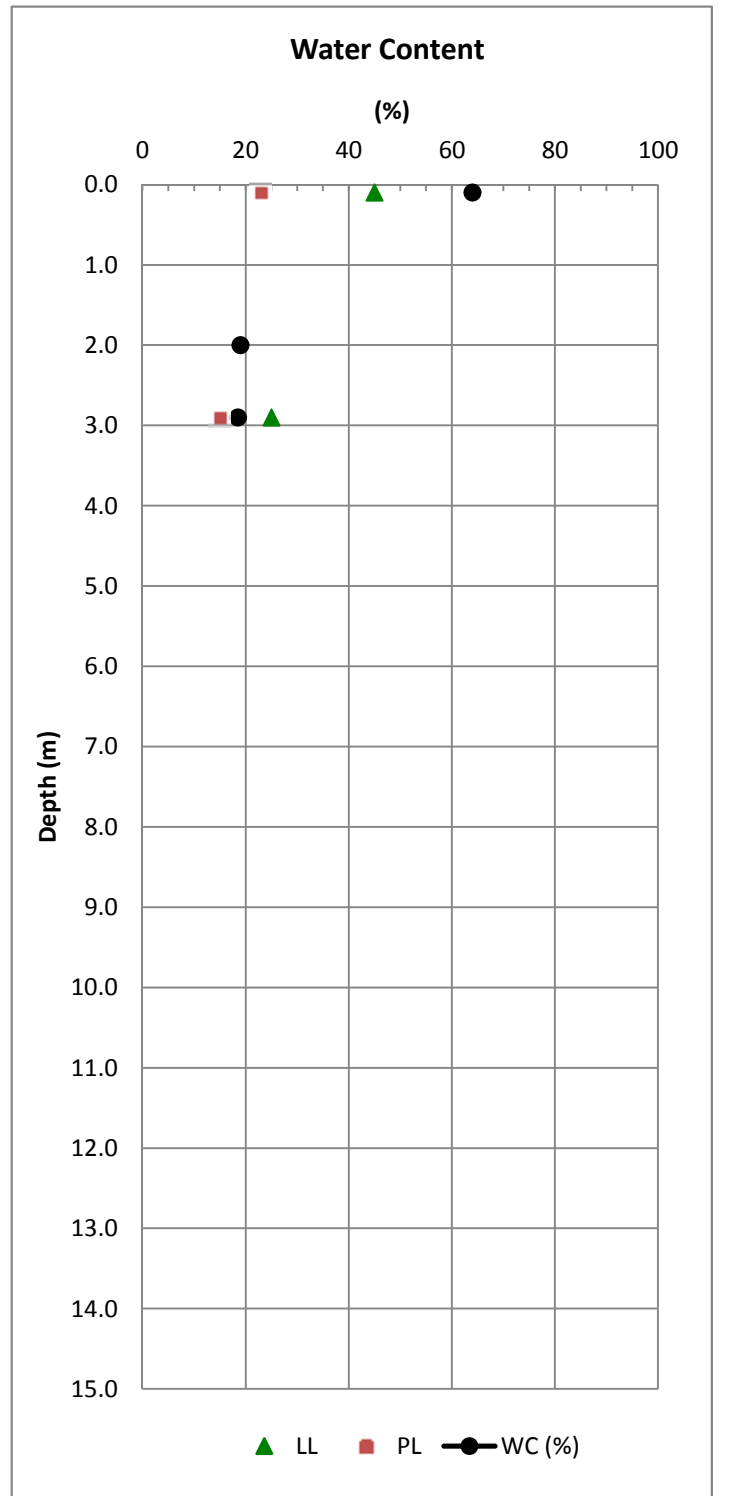
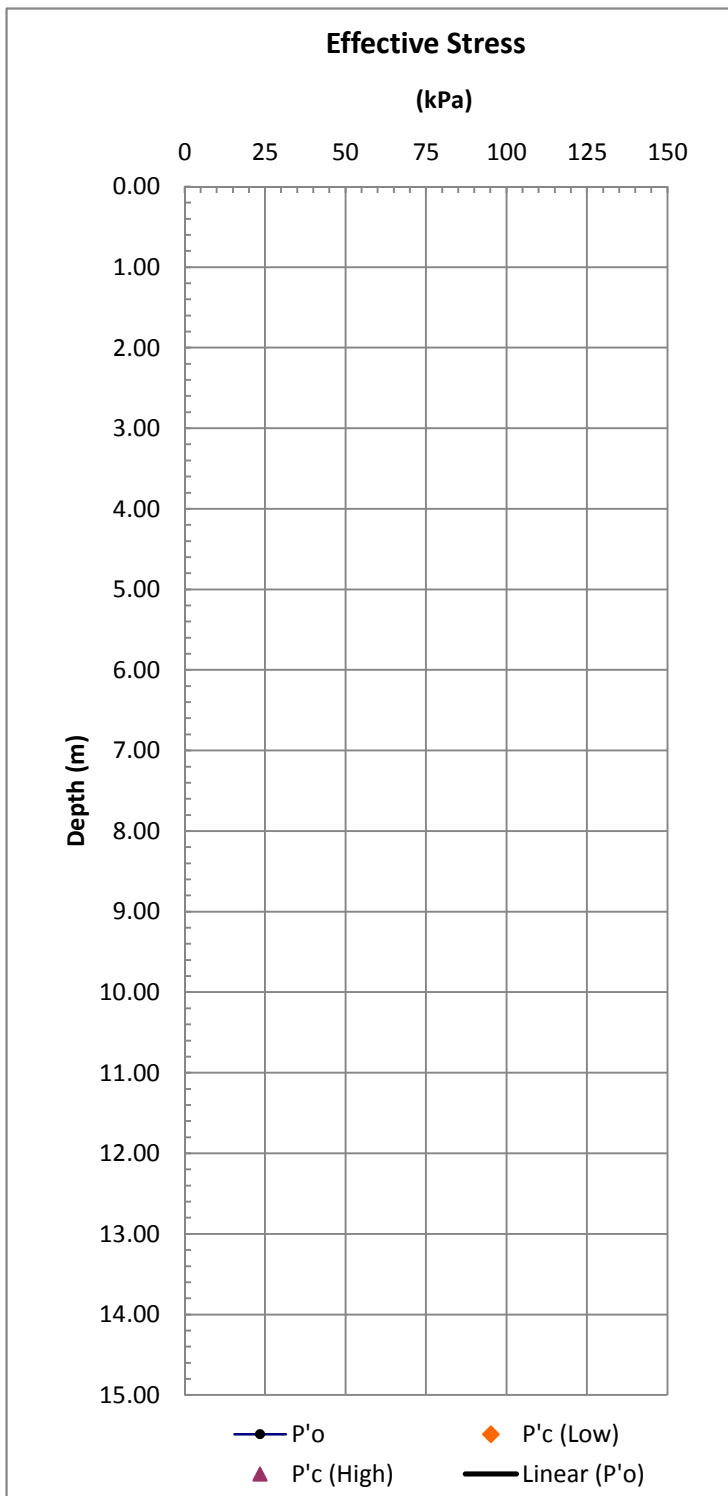
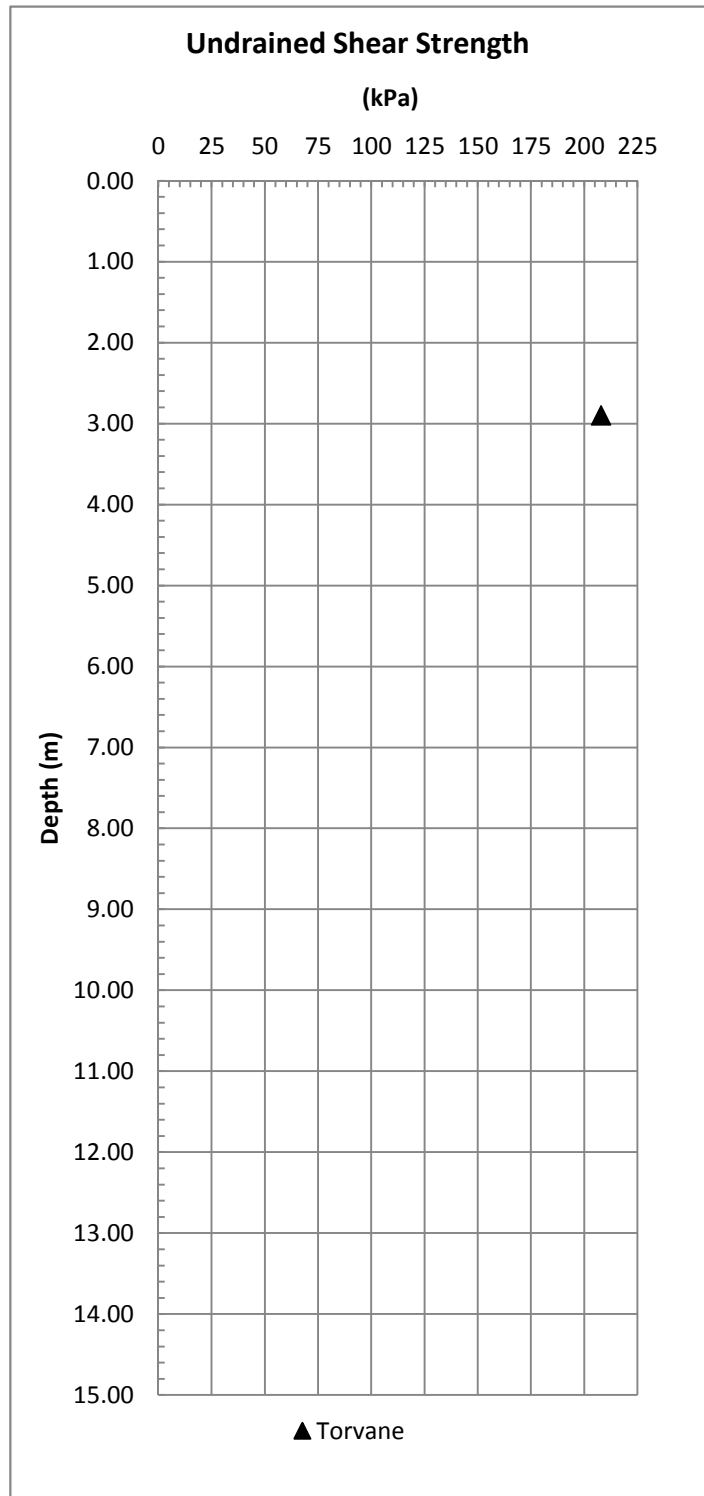
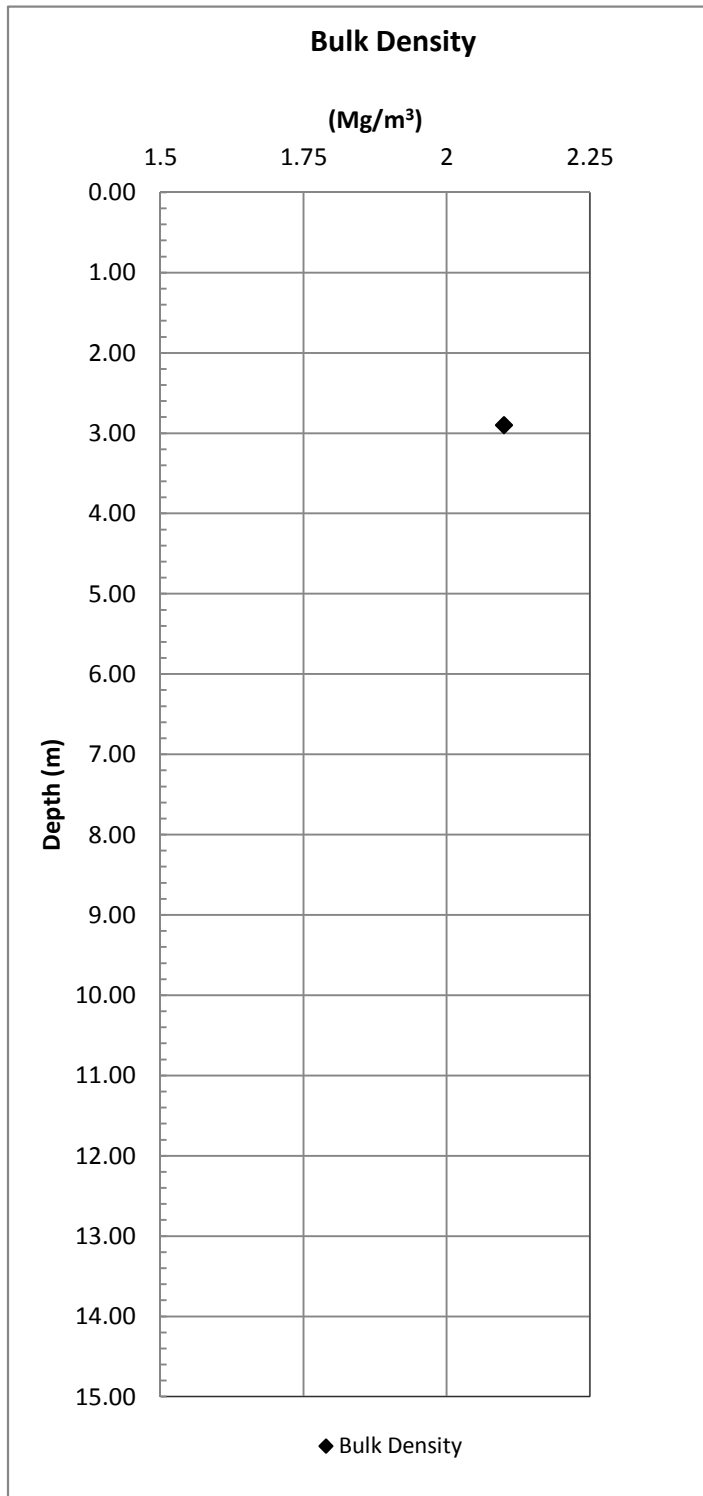


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Figure C.3

10033 Beaufort Data

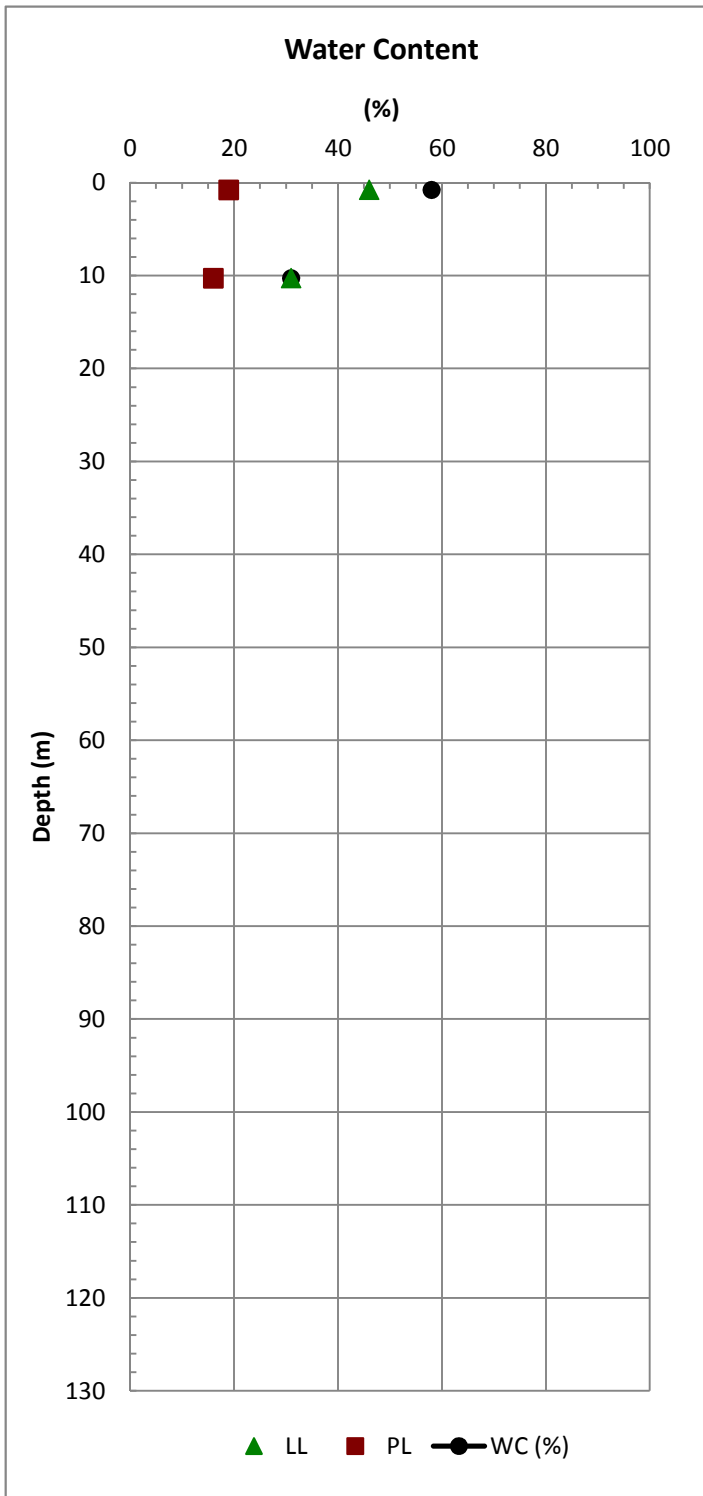
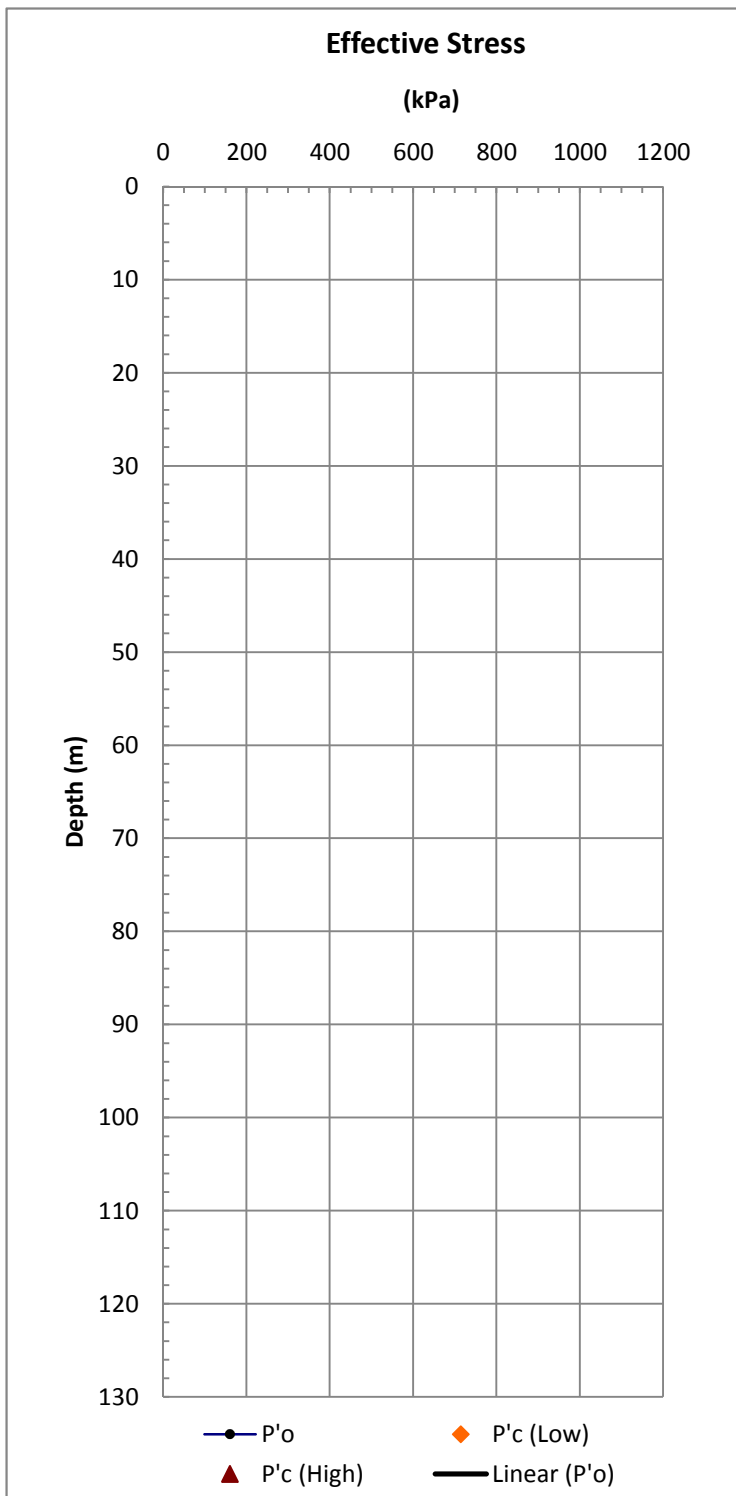
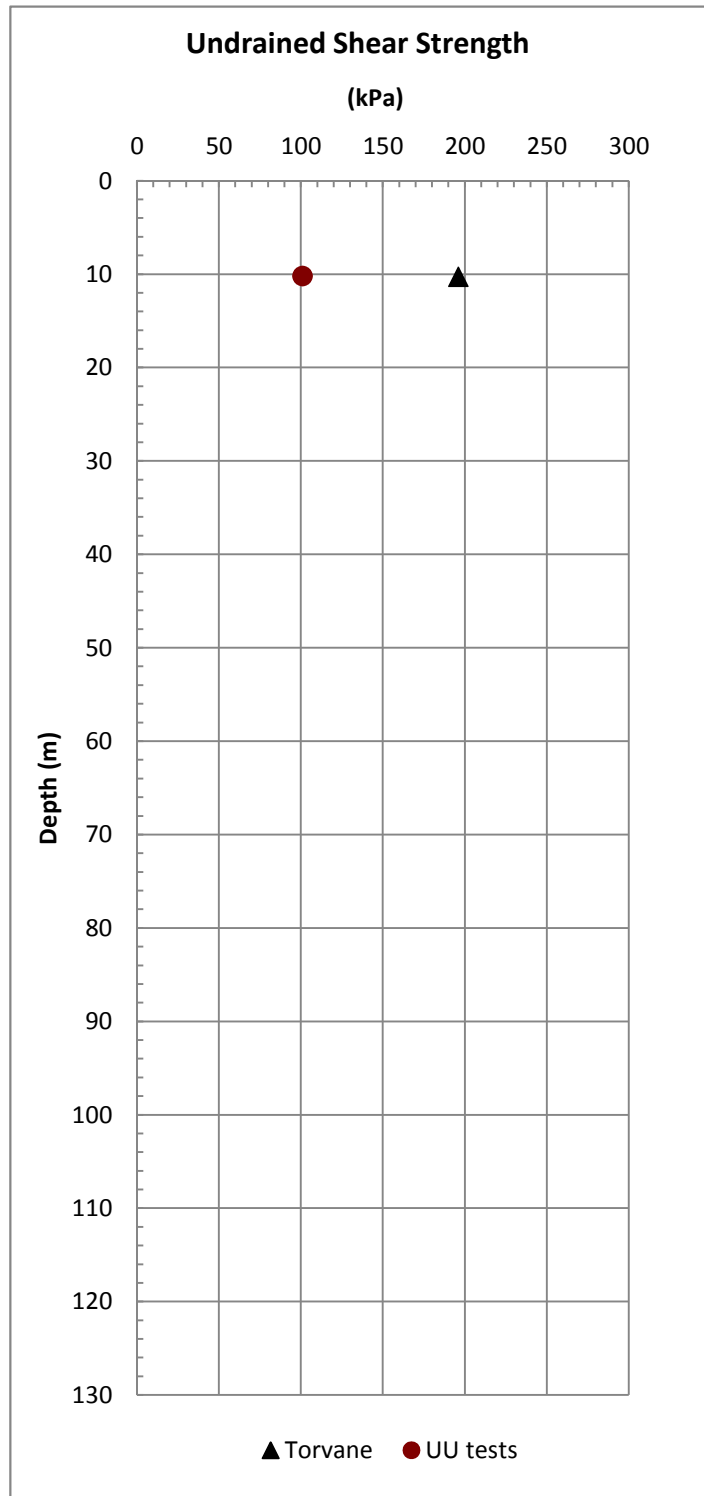
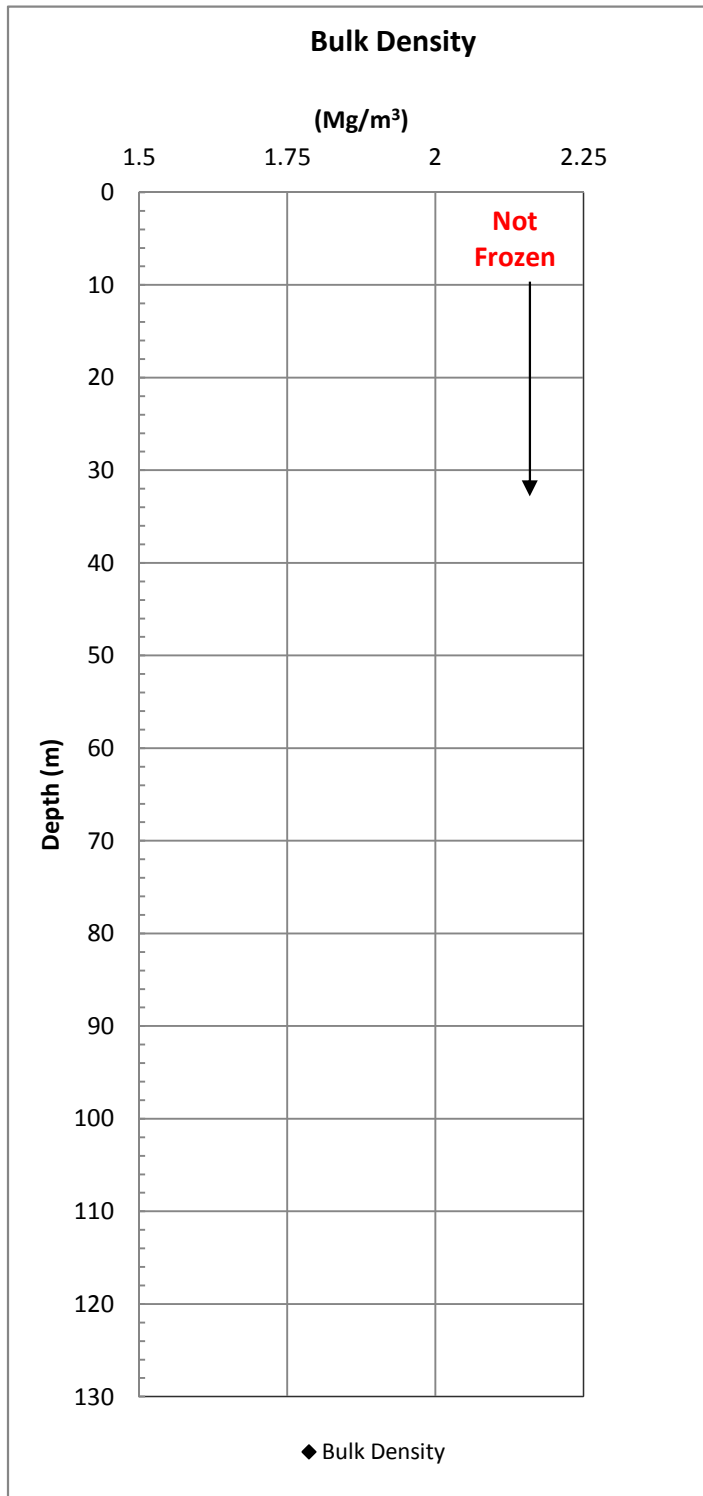


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Figure C.3

10033 Beaufort Data

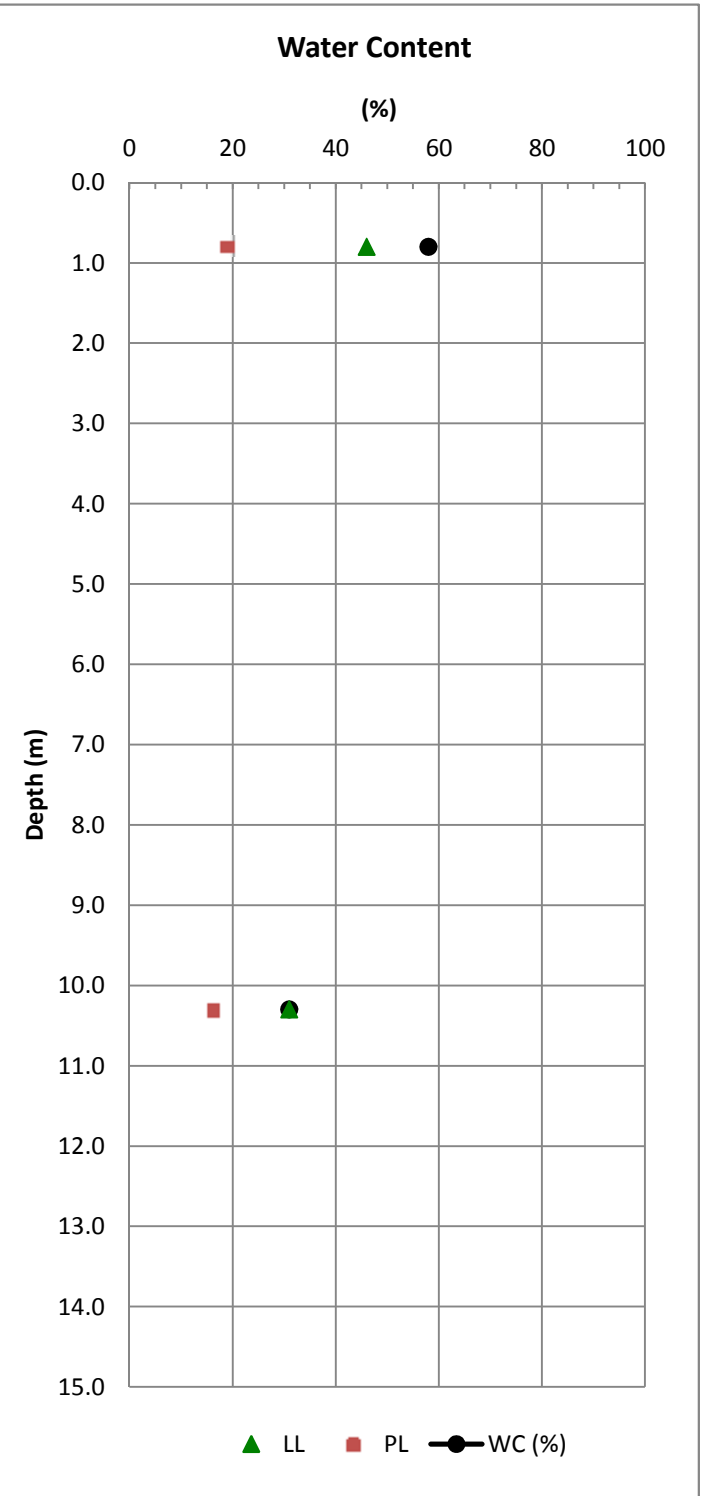
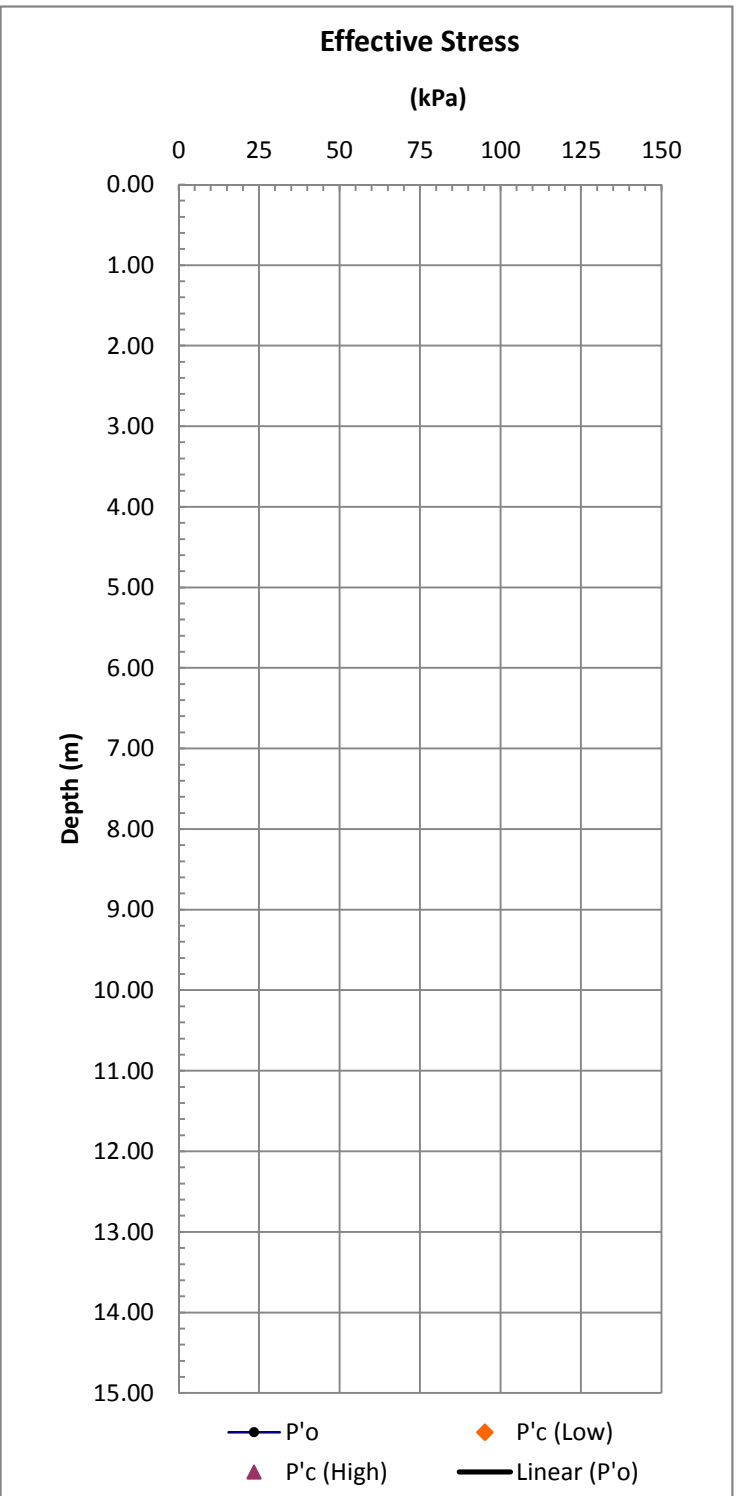
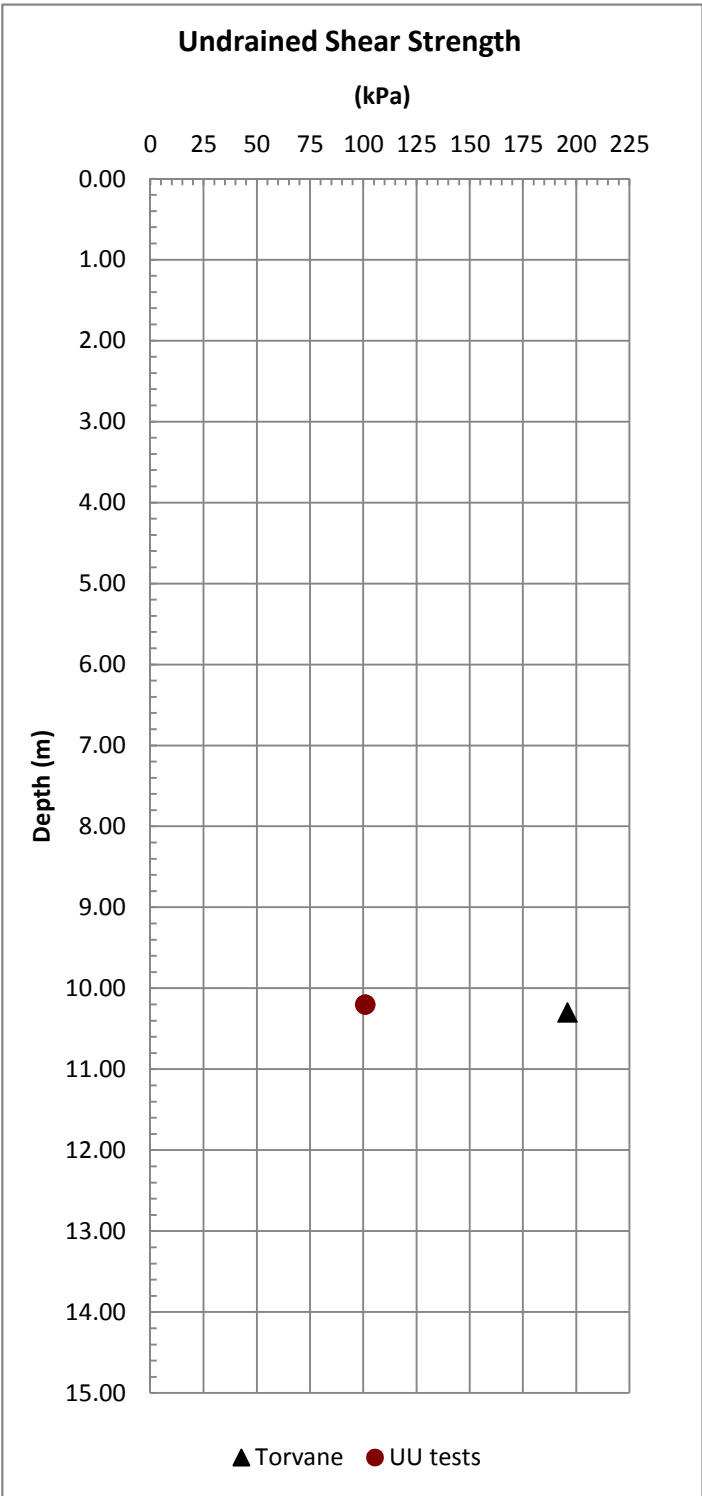
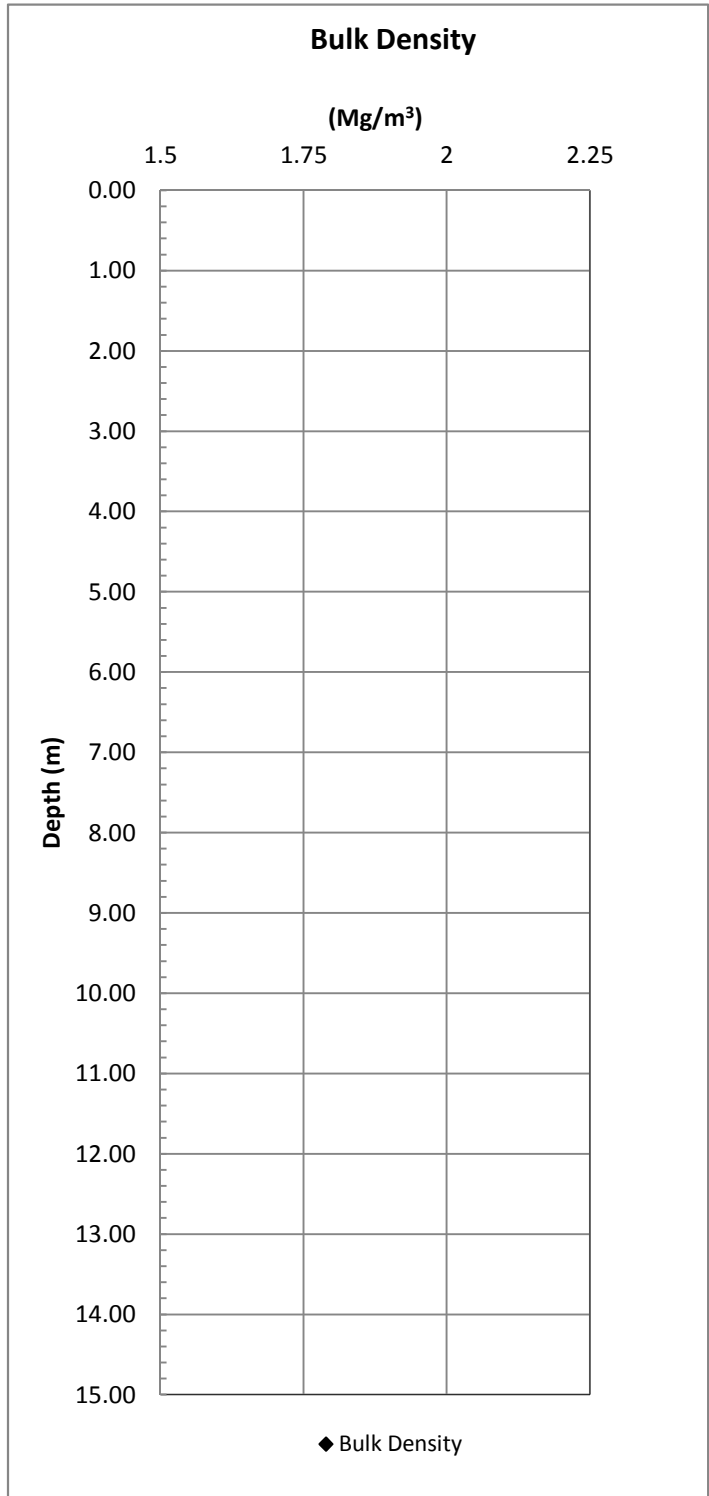


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Figure C.3

10033 Beaufort Data

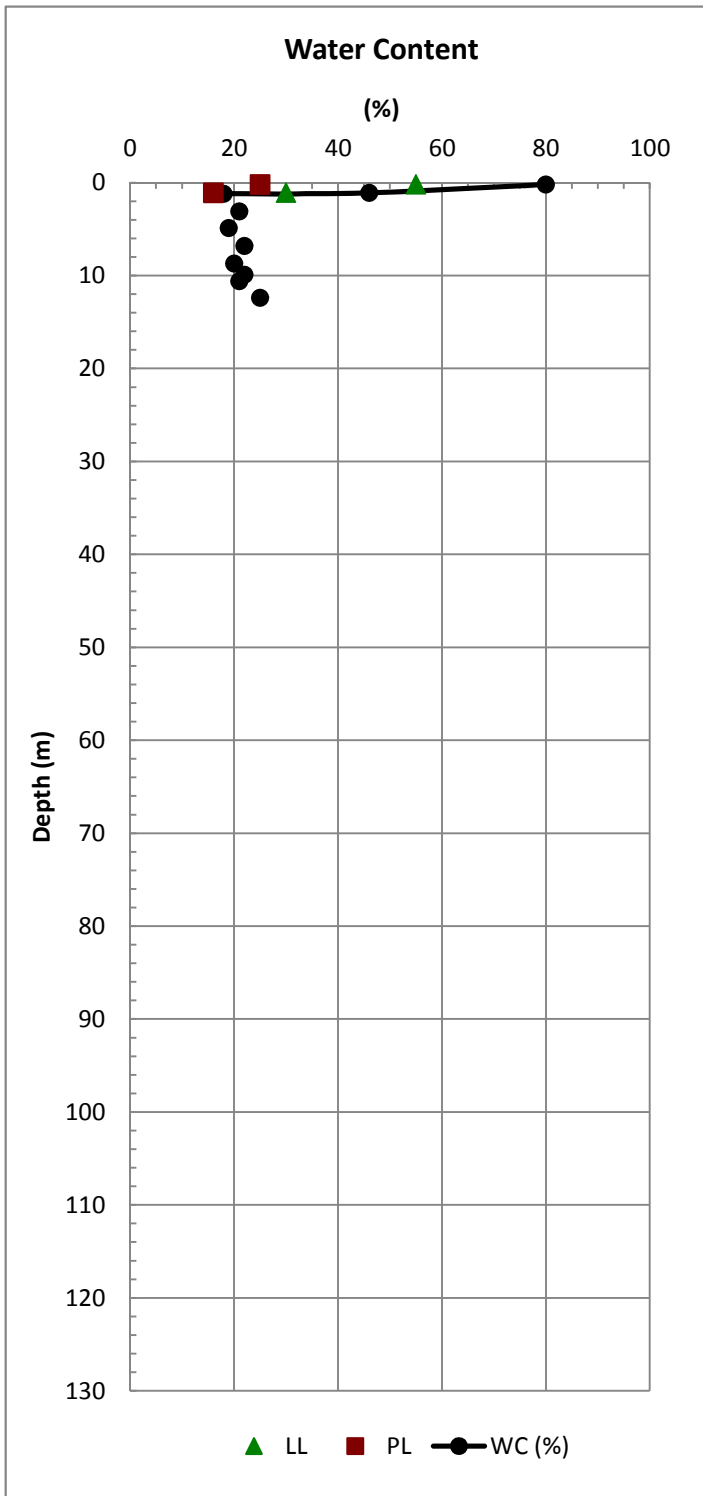
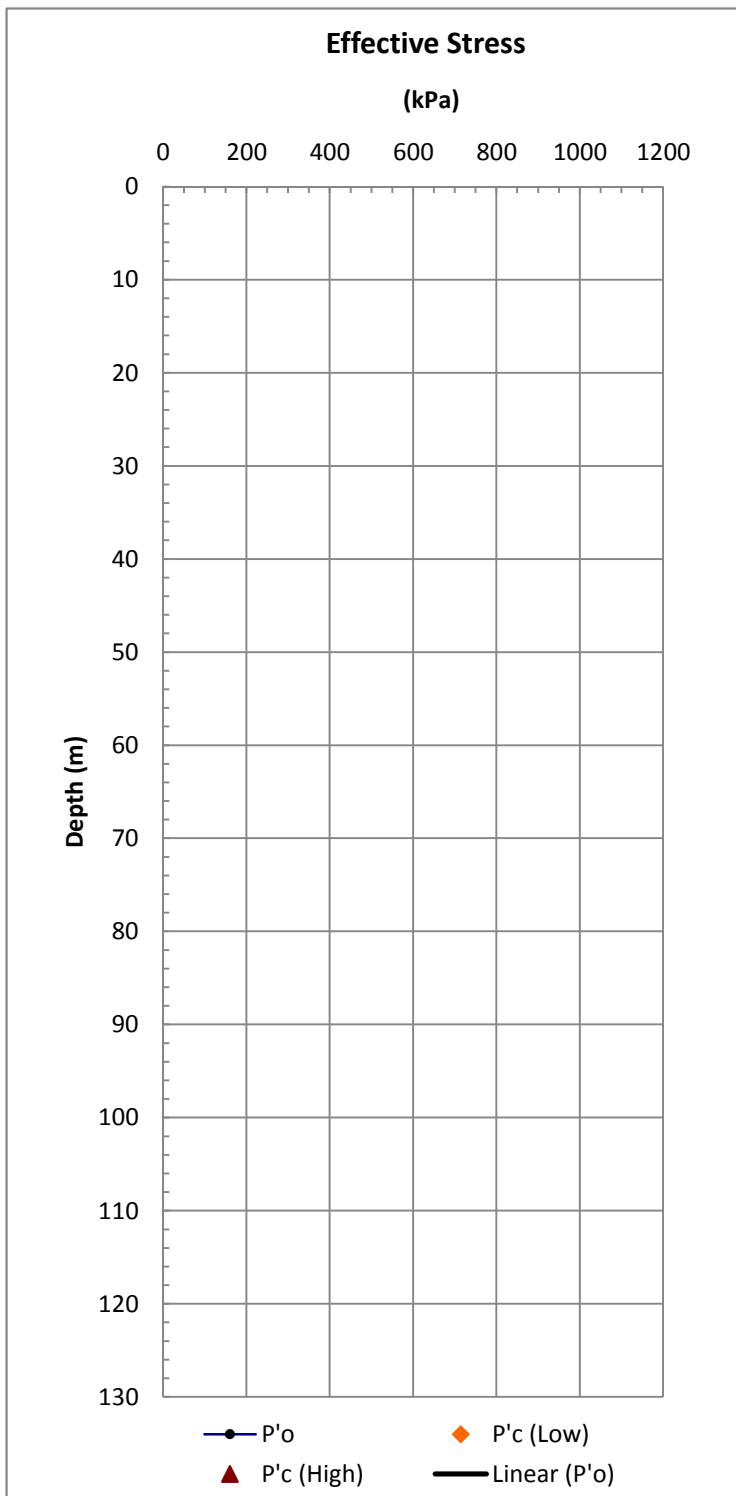
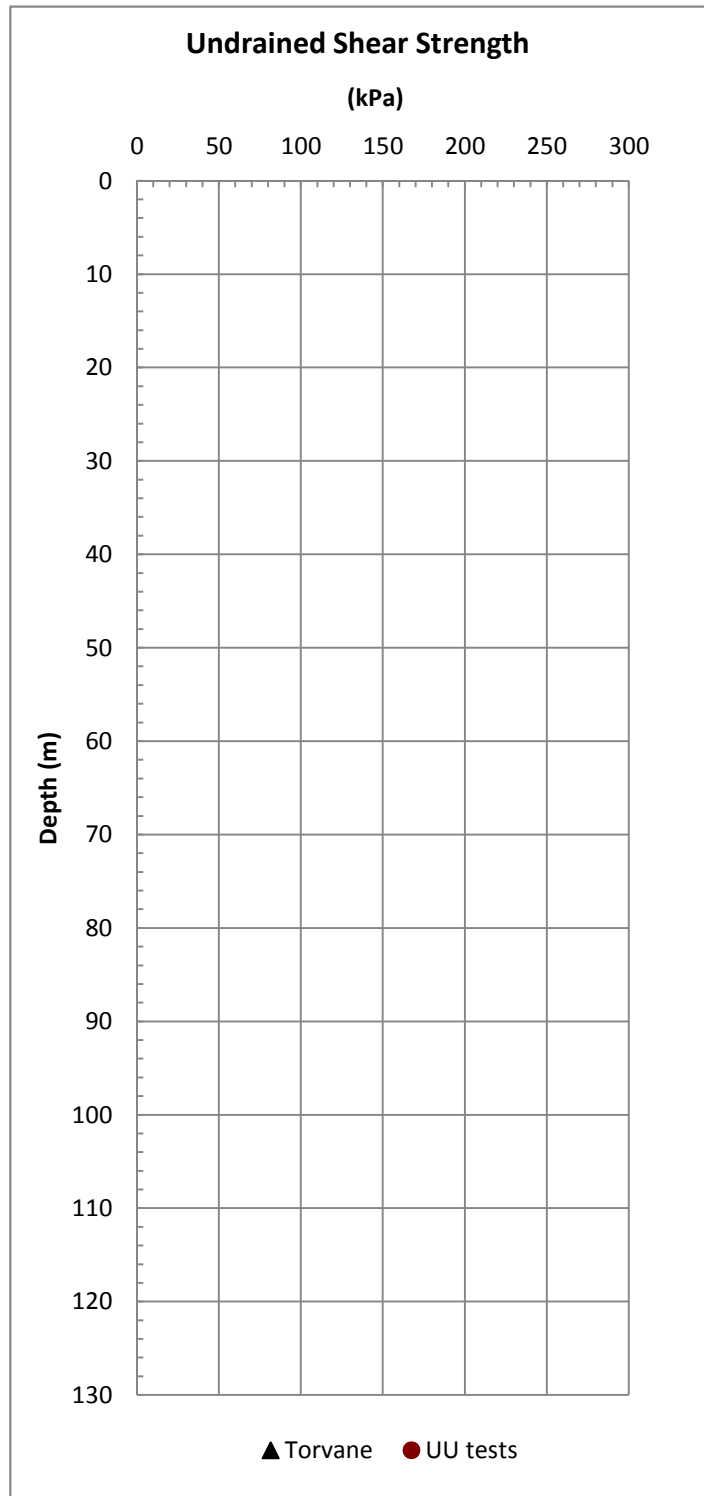
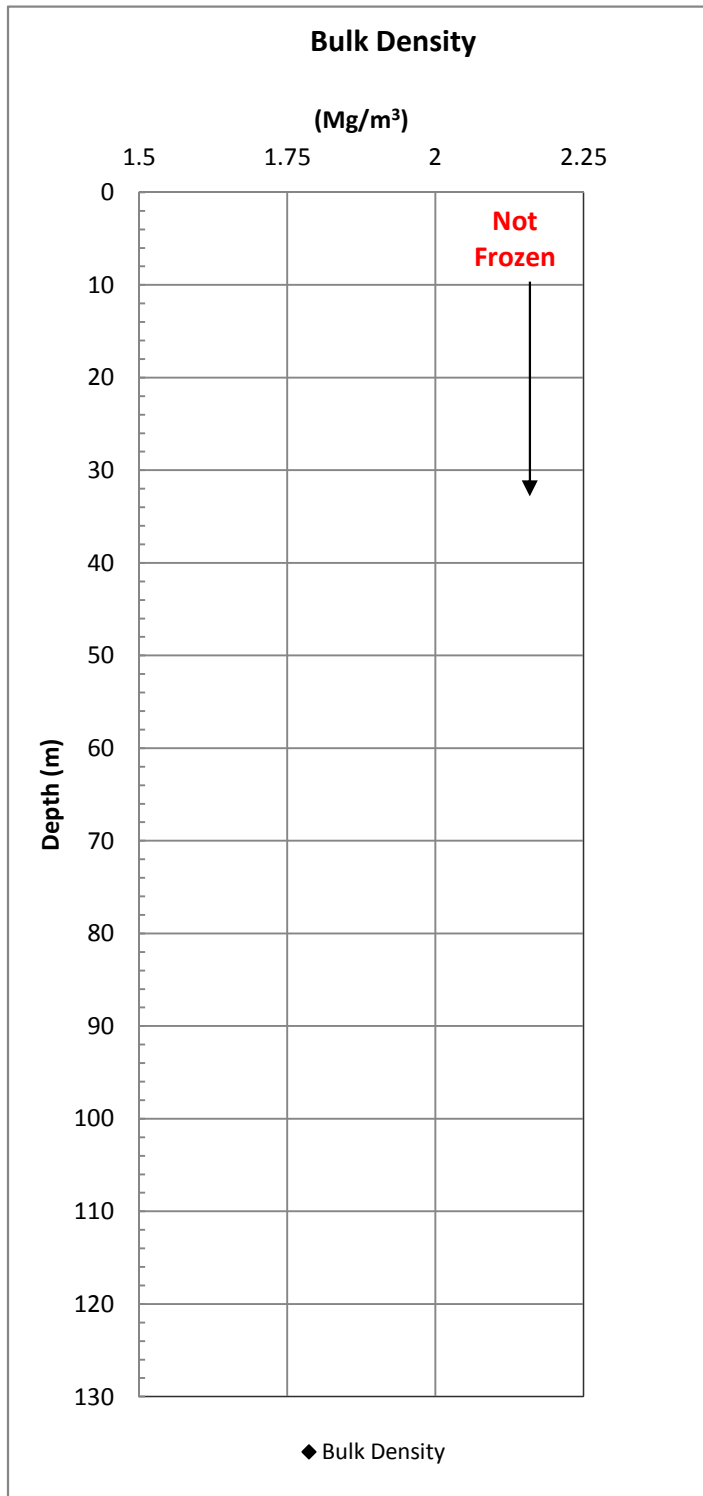


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Figure C.3

10033 Beaufort Data

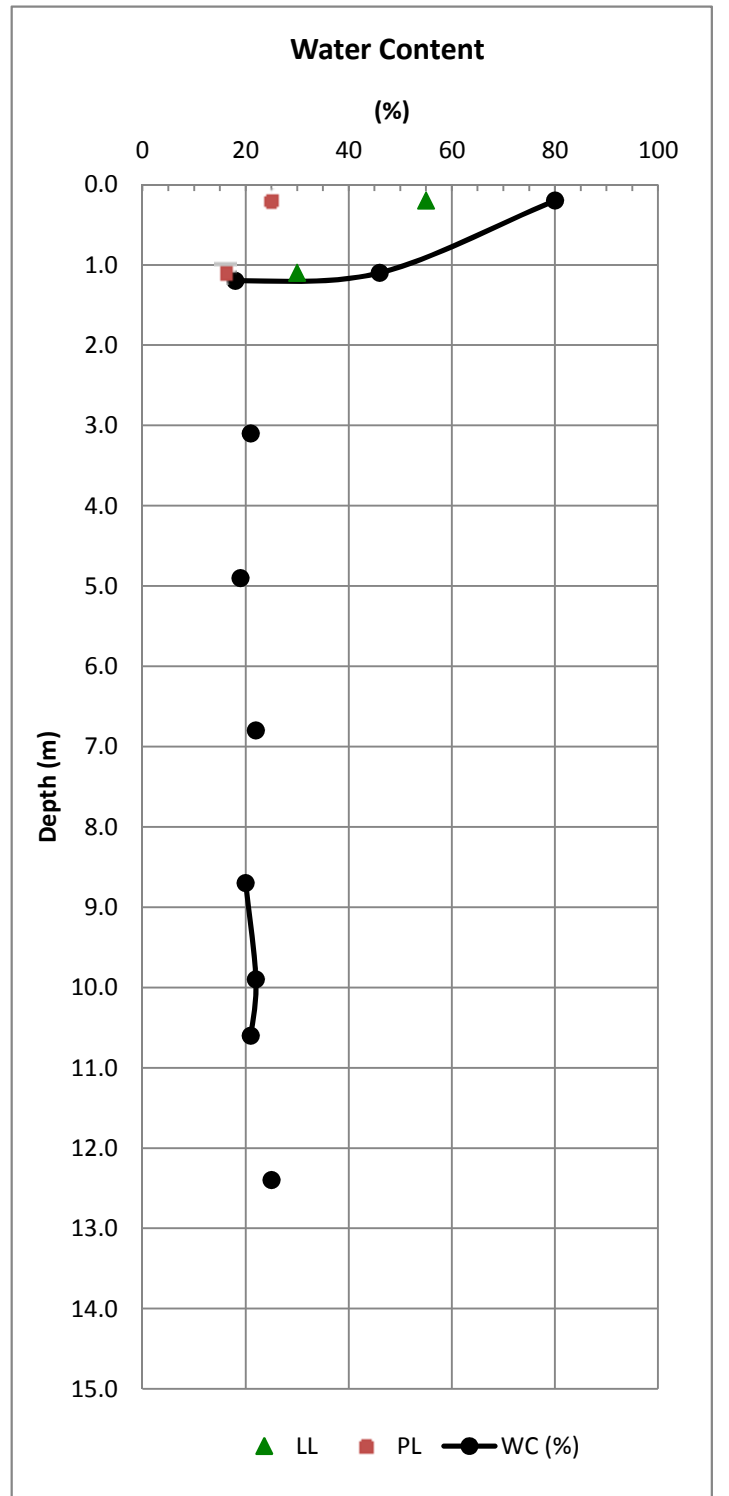
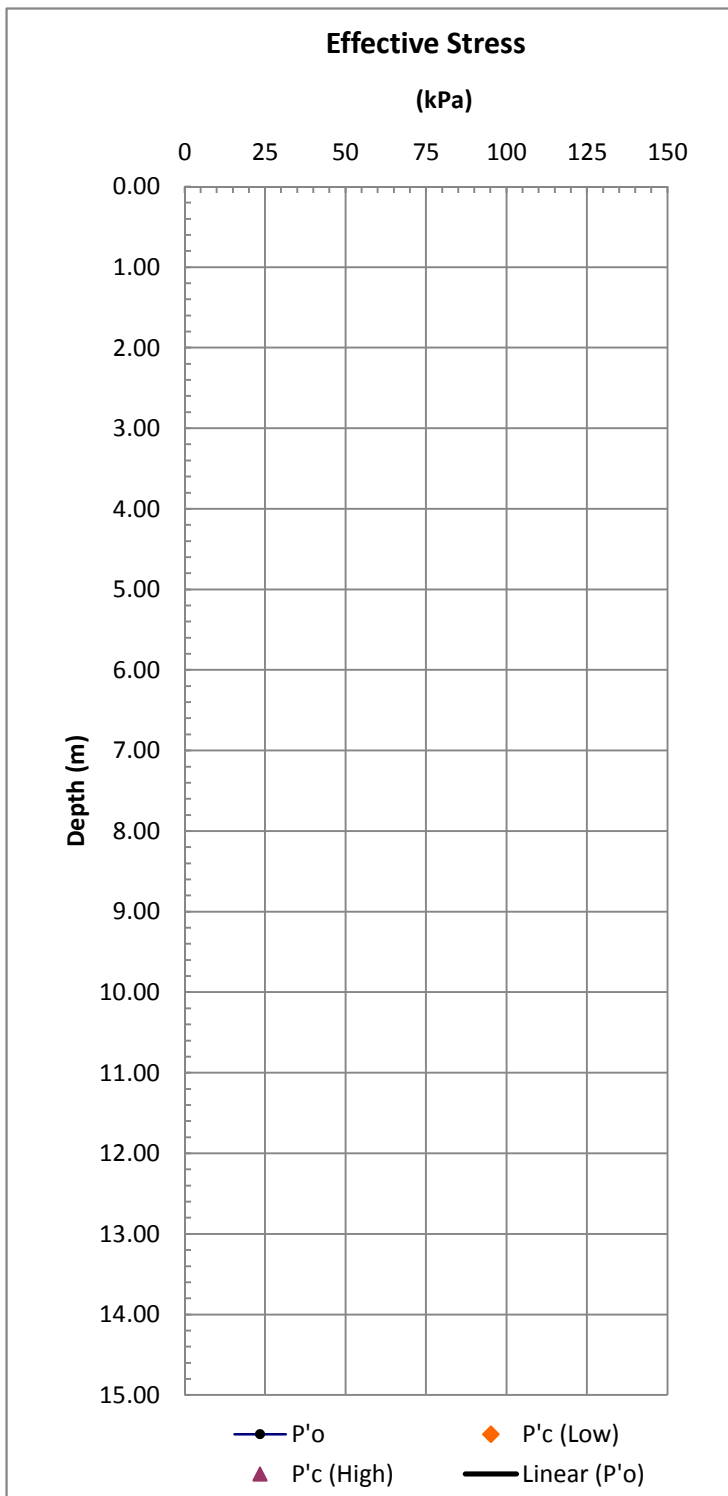
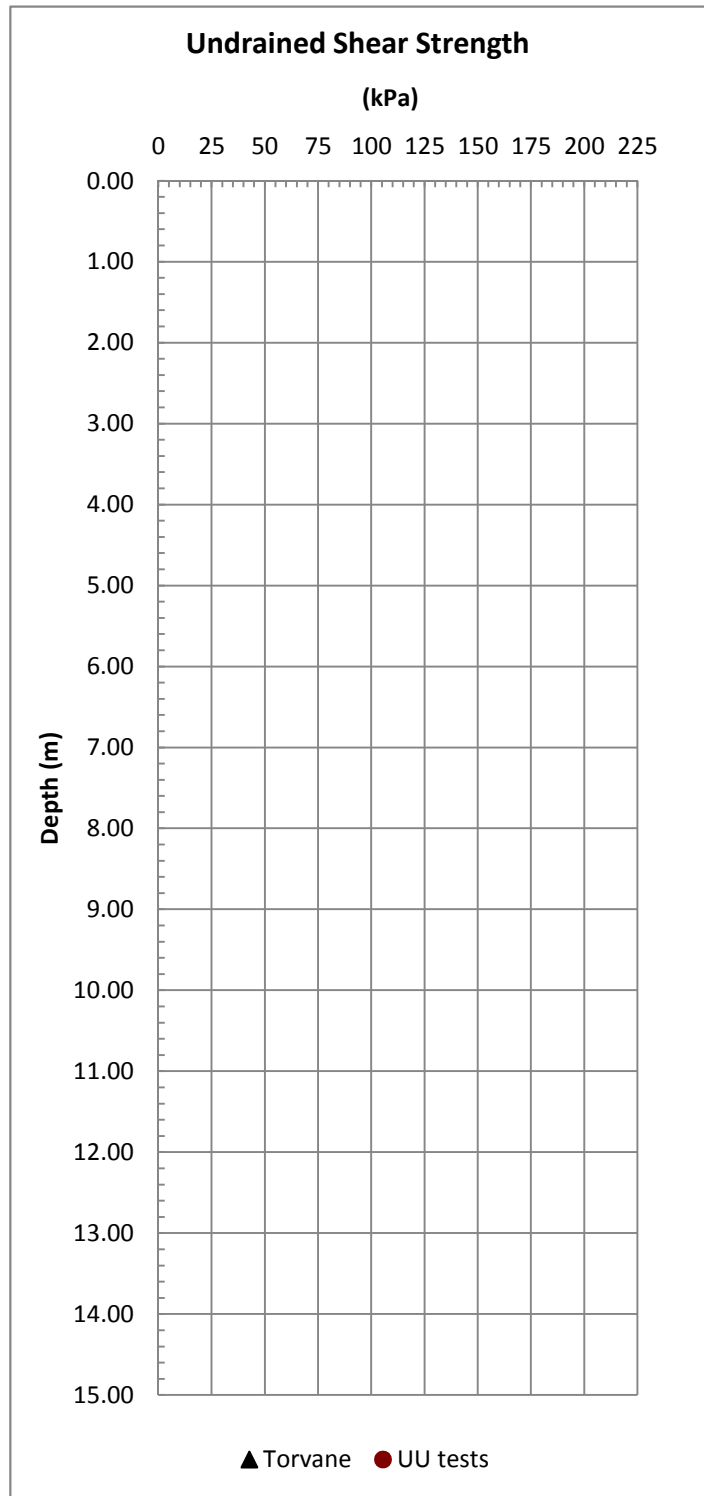
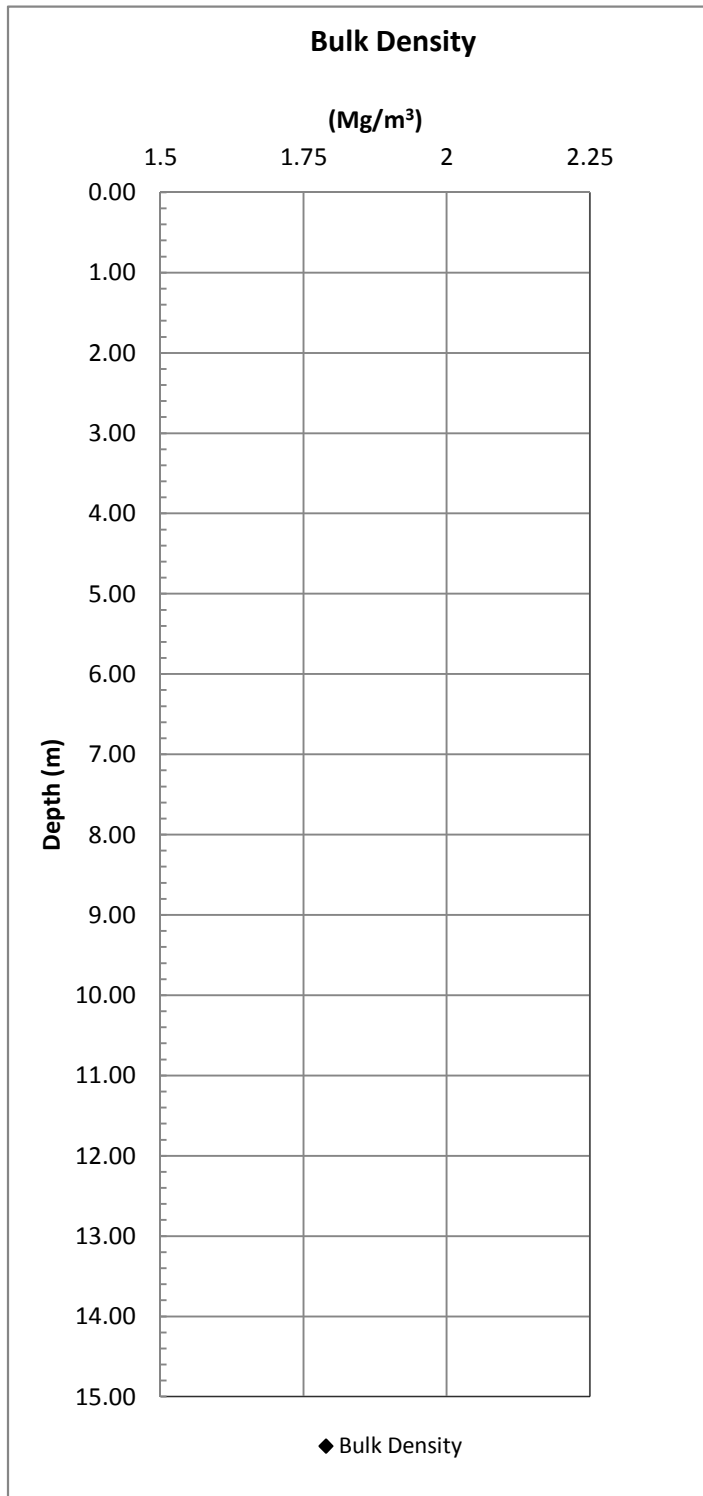


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Figure C.3

10033 Beaufort Data

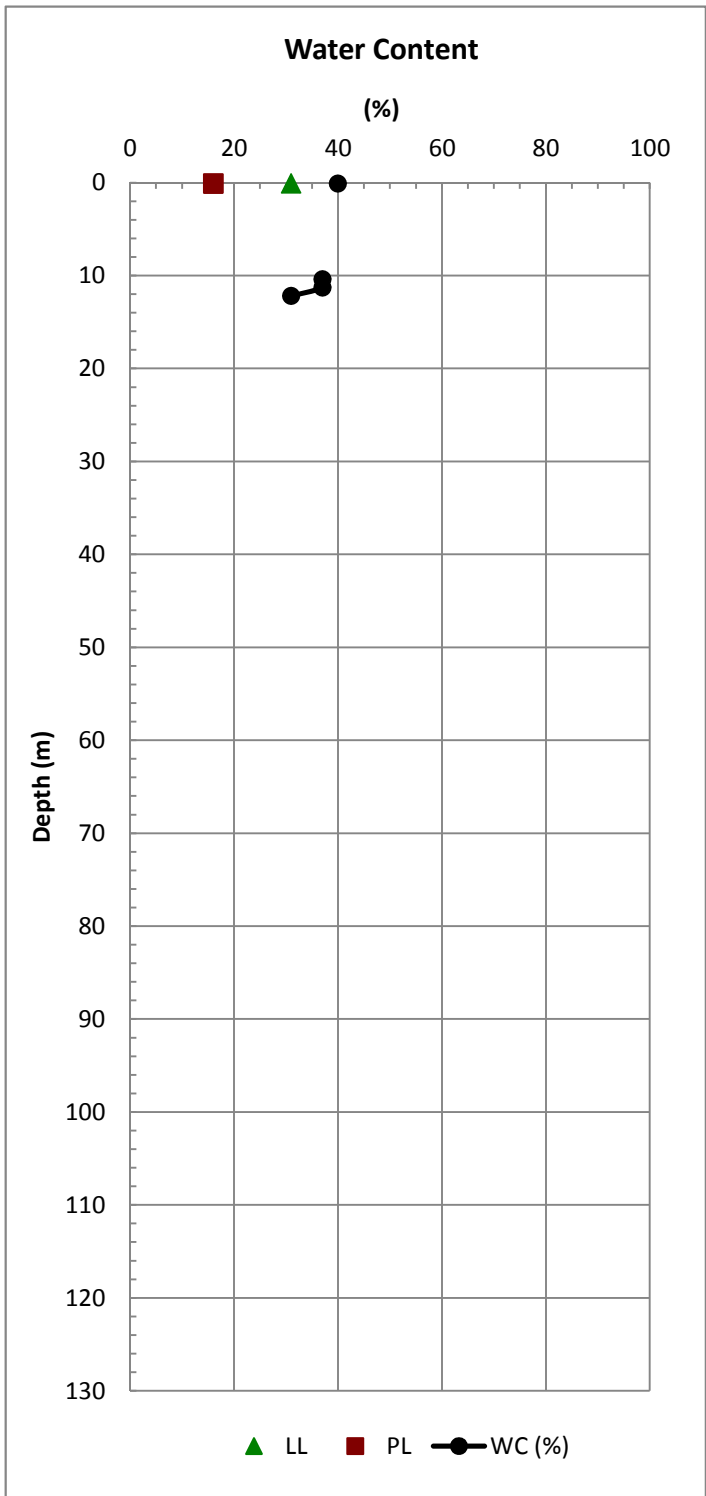
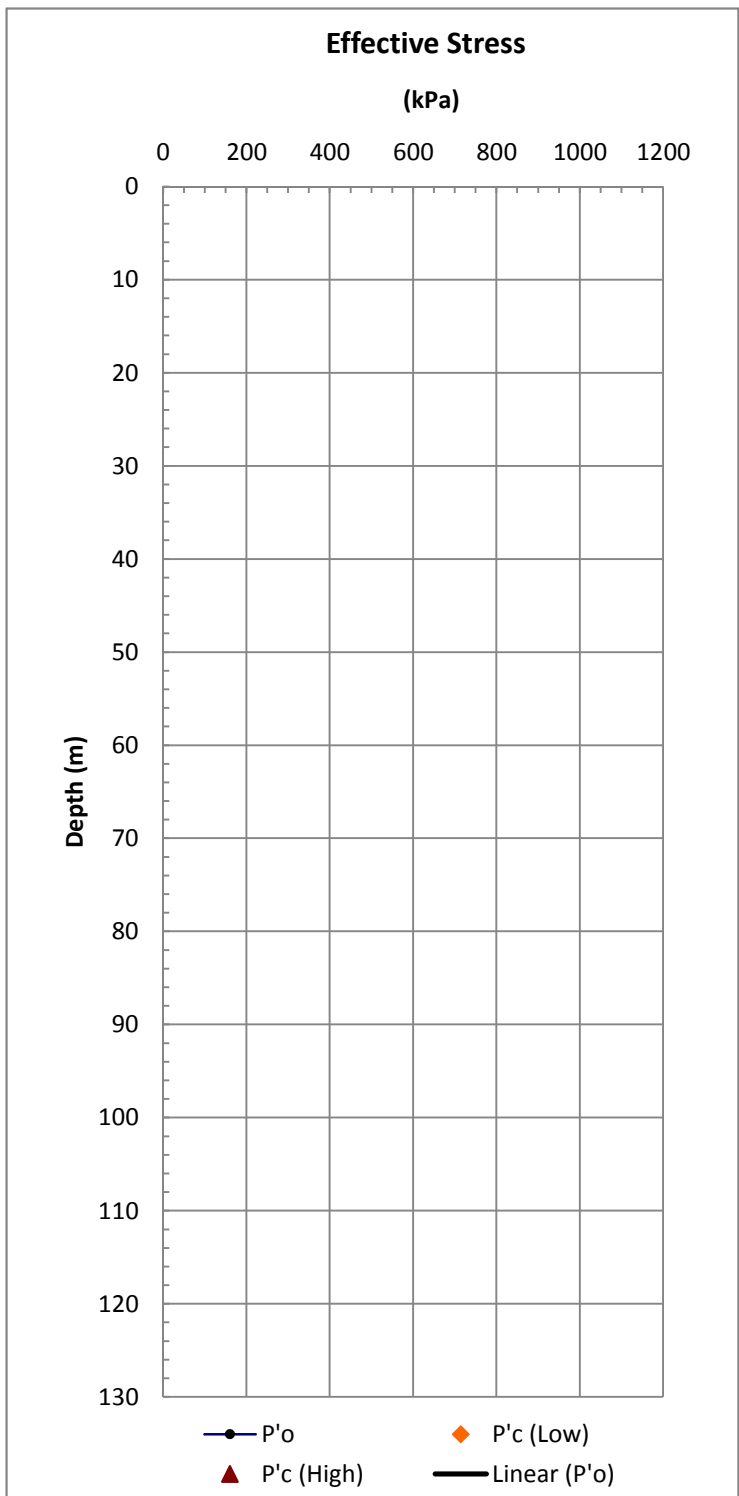
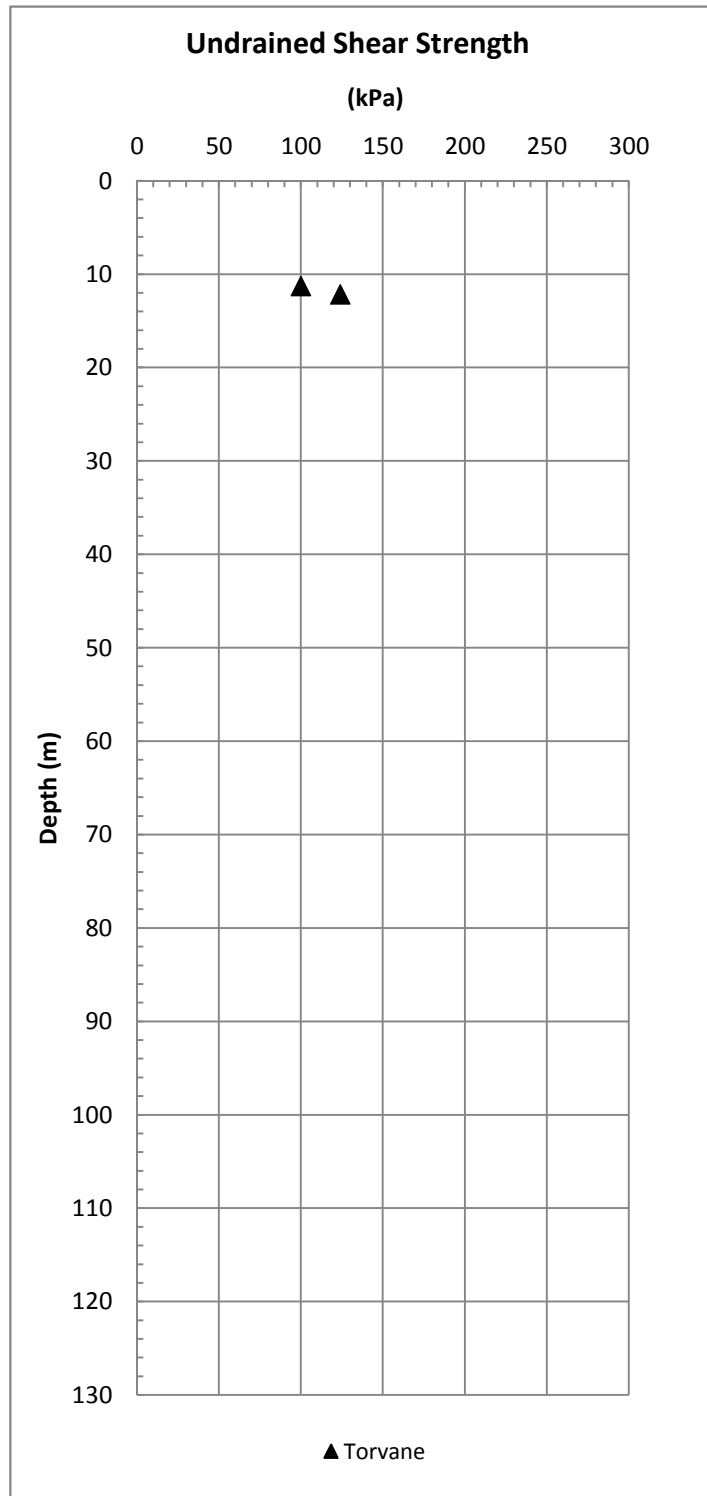
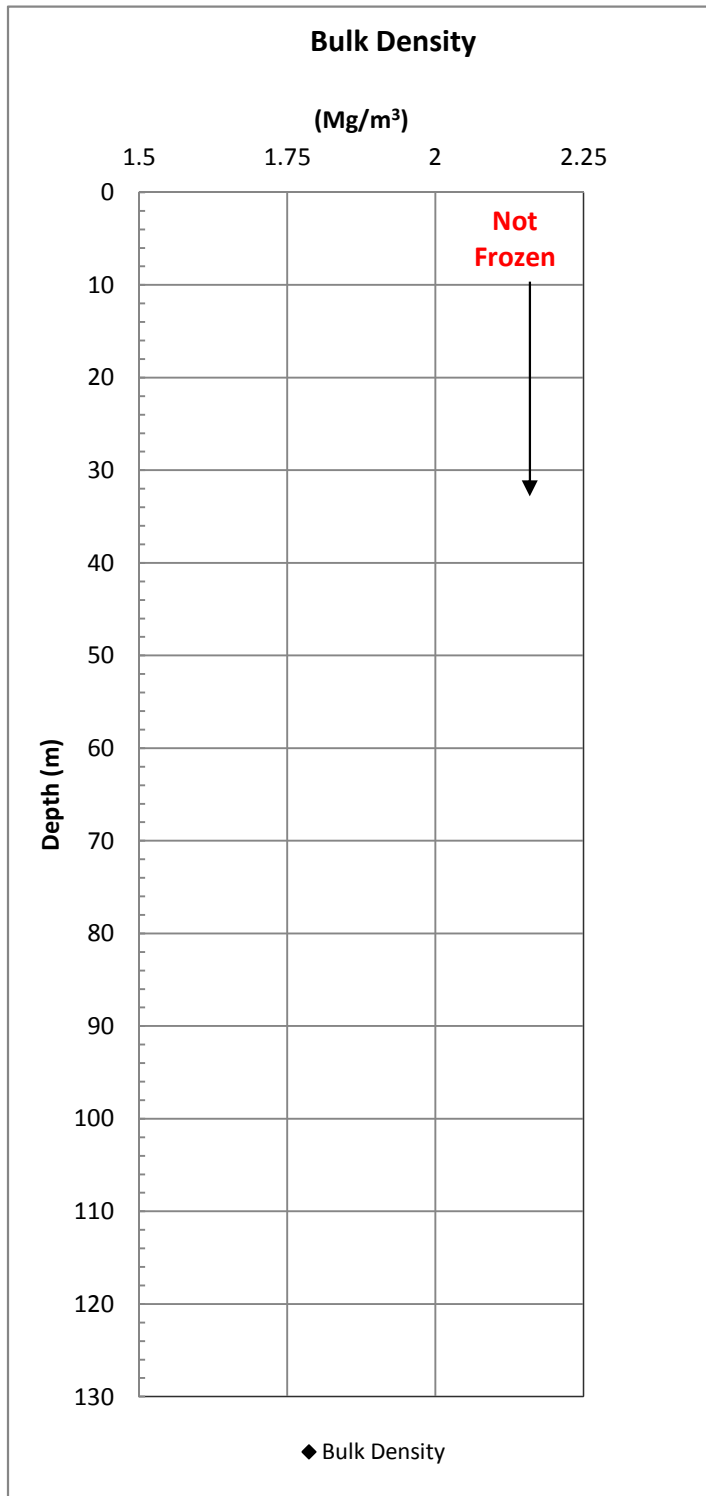


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Nerlerk B-Ner 3:12

Figure C.3

10033 Beaufort Data

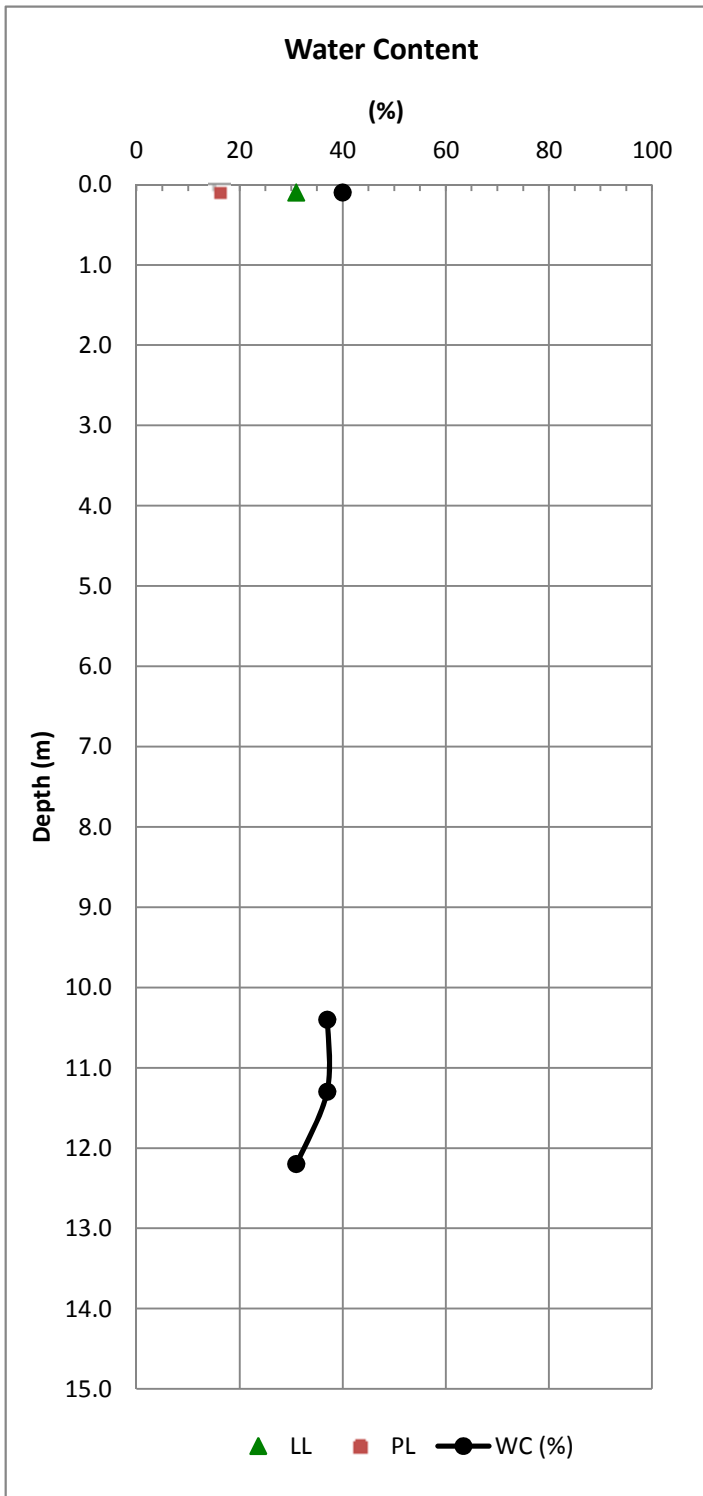
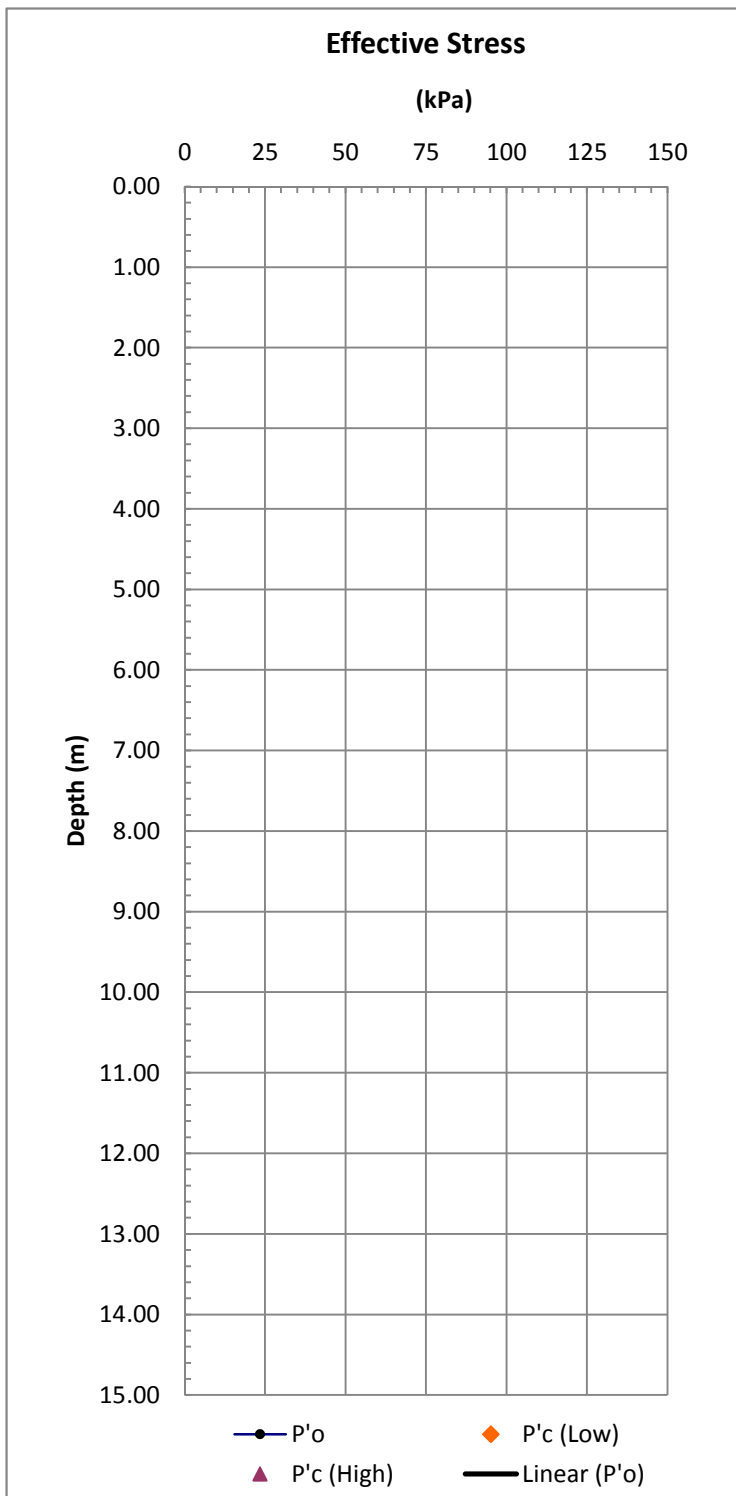
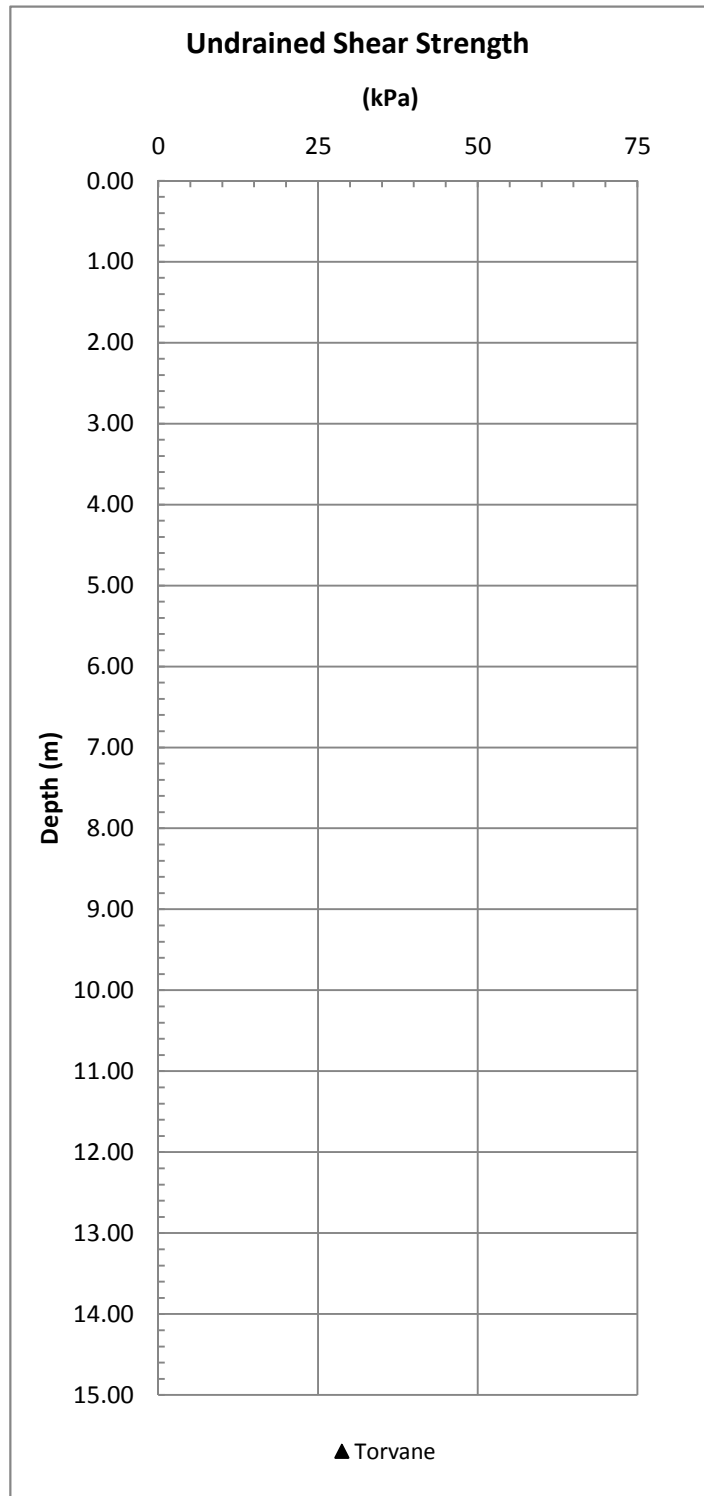
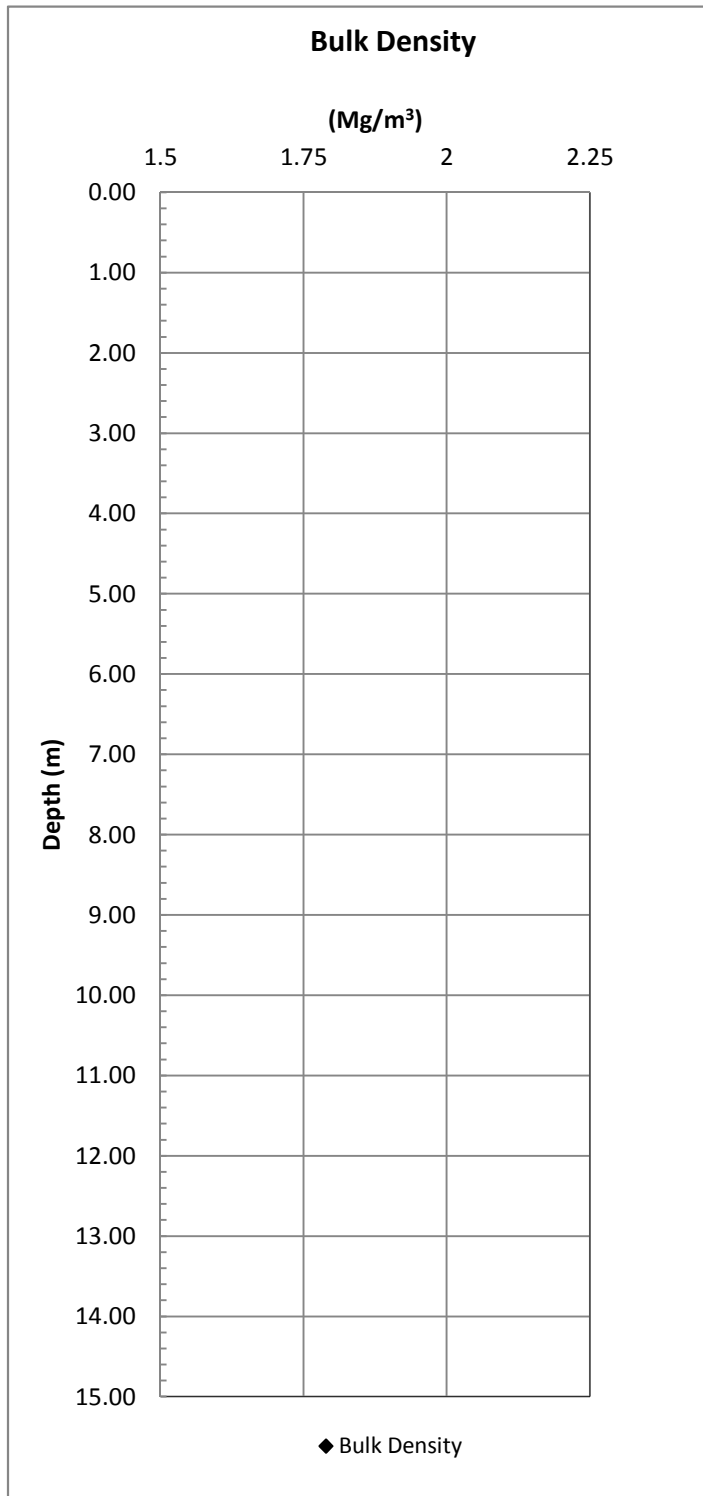


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Figure C.3

10033 Beaufort Data

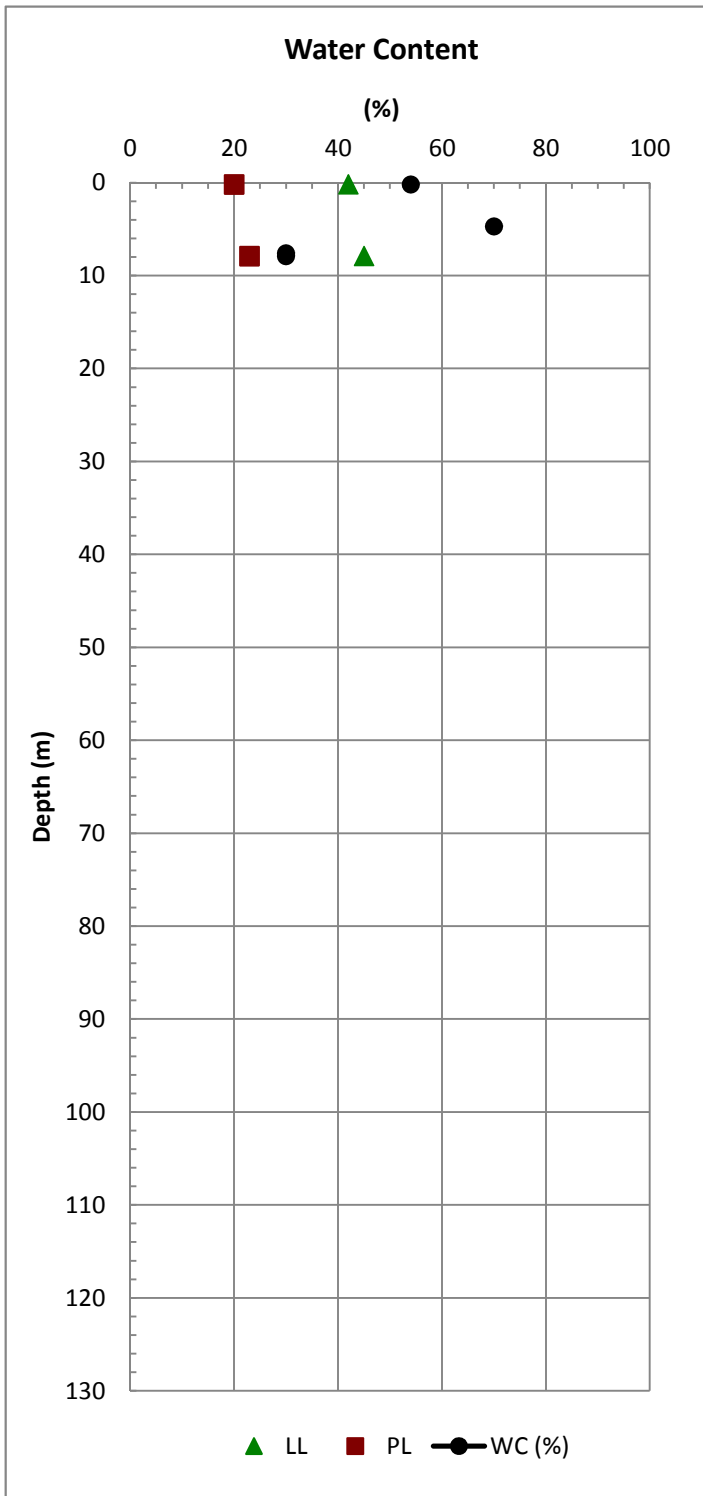
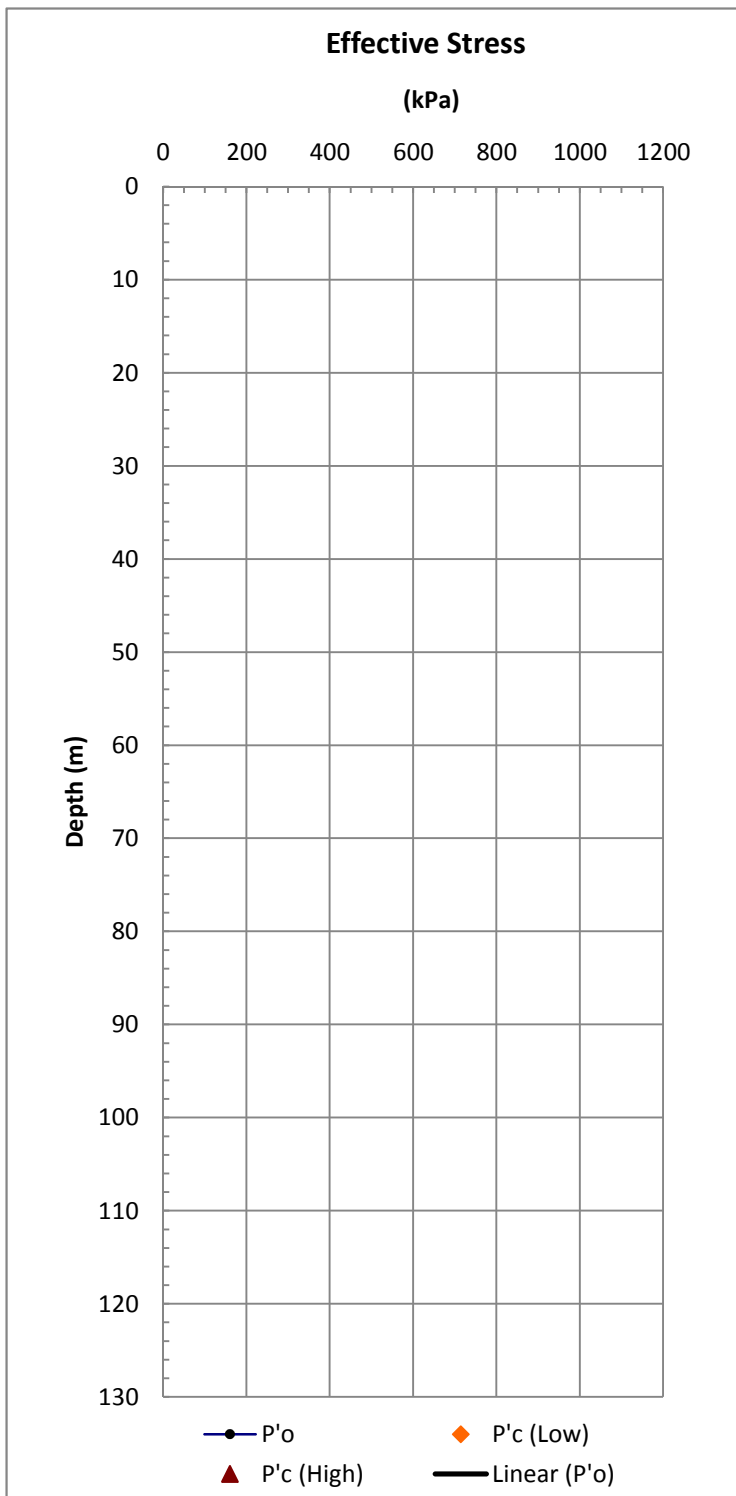
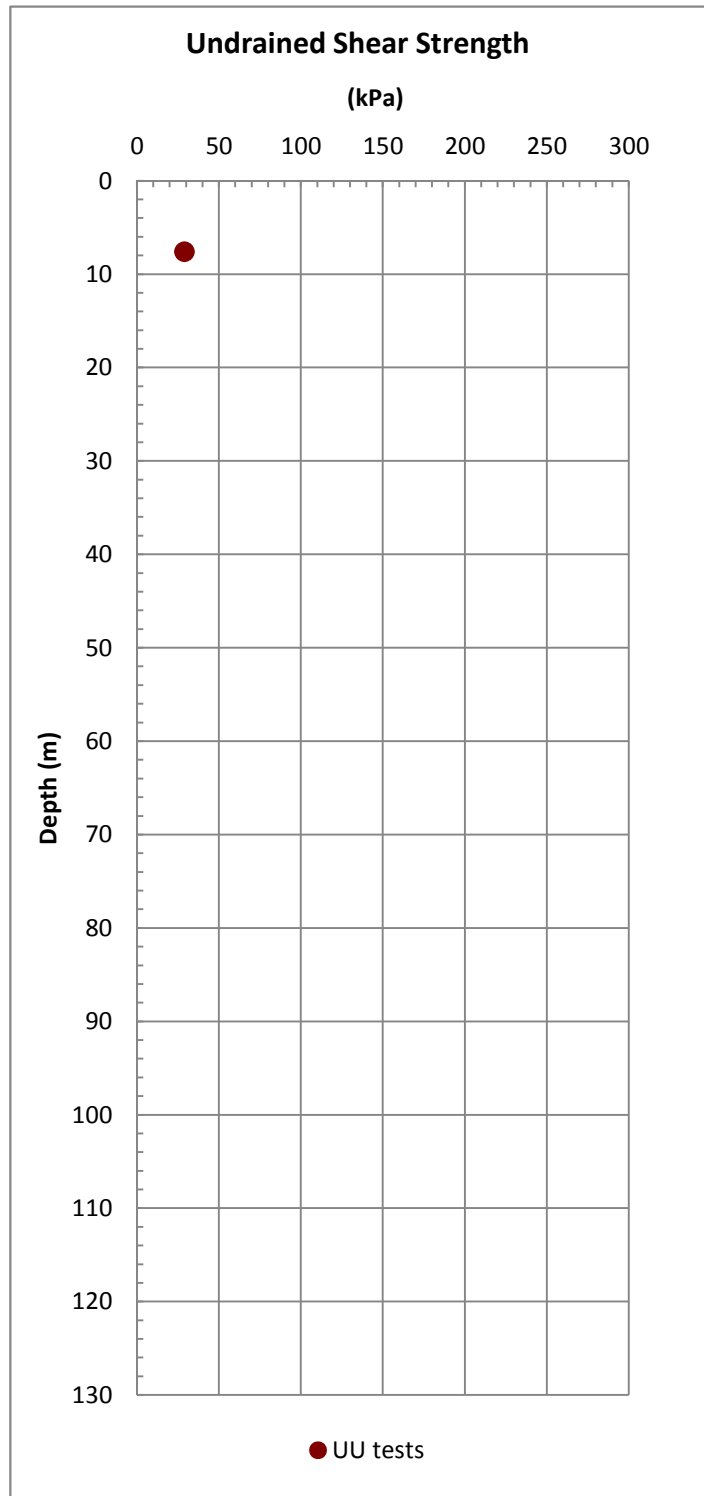
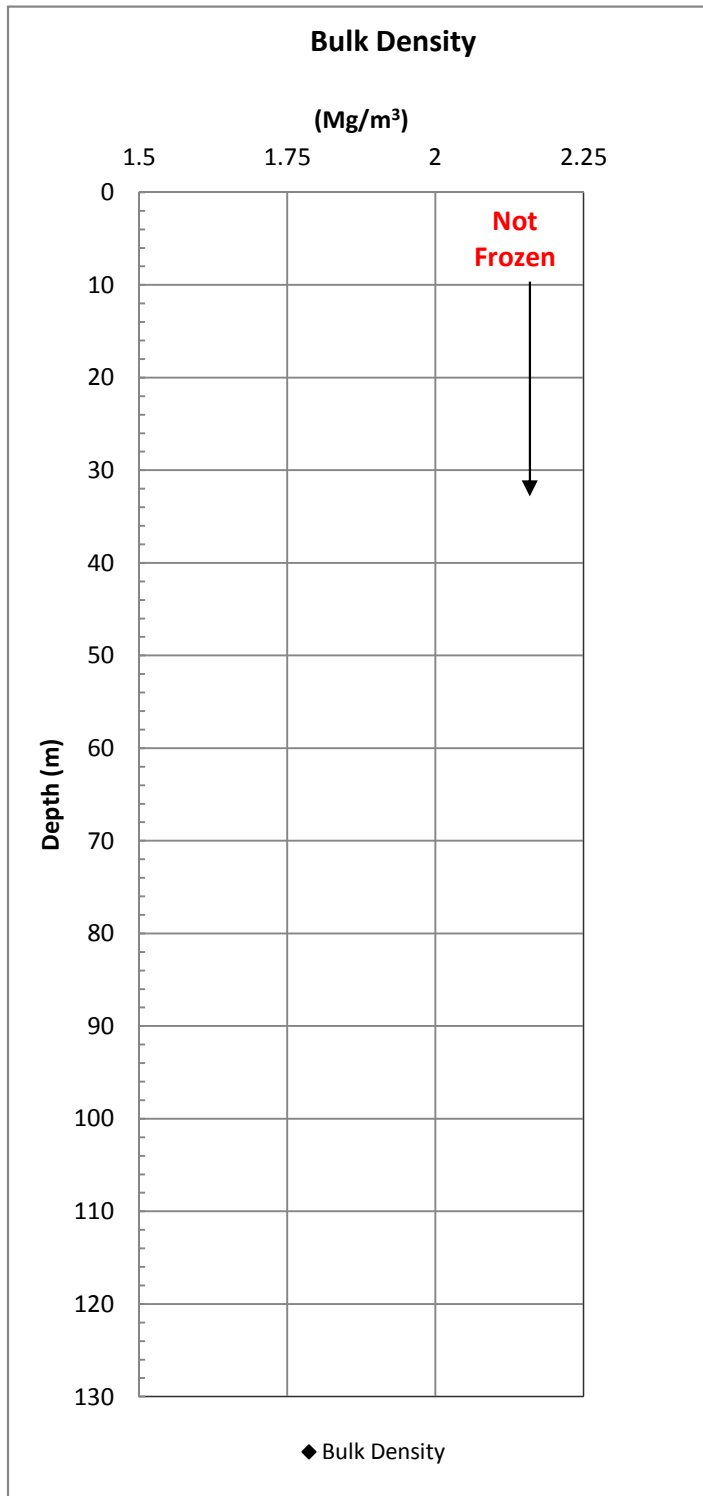


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Nerlerk B-Ner 3:1B

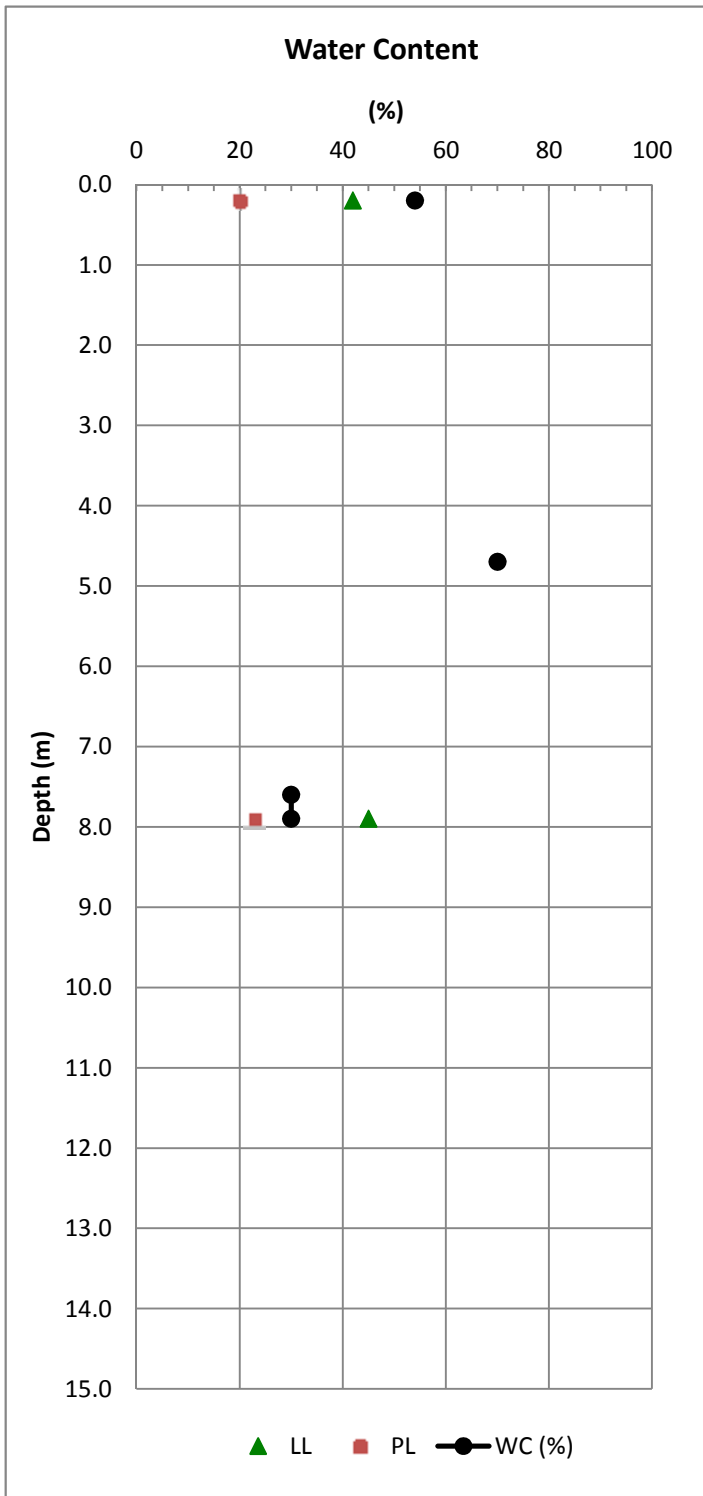
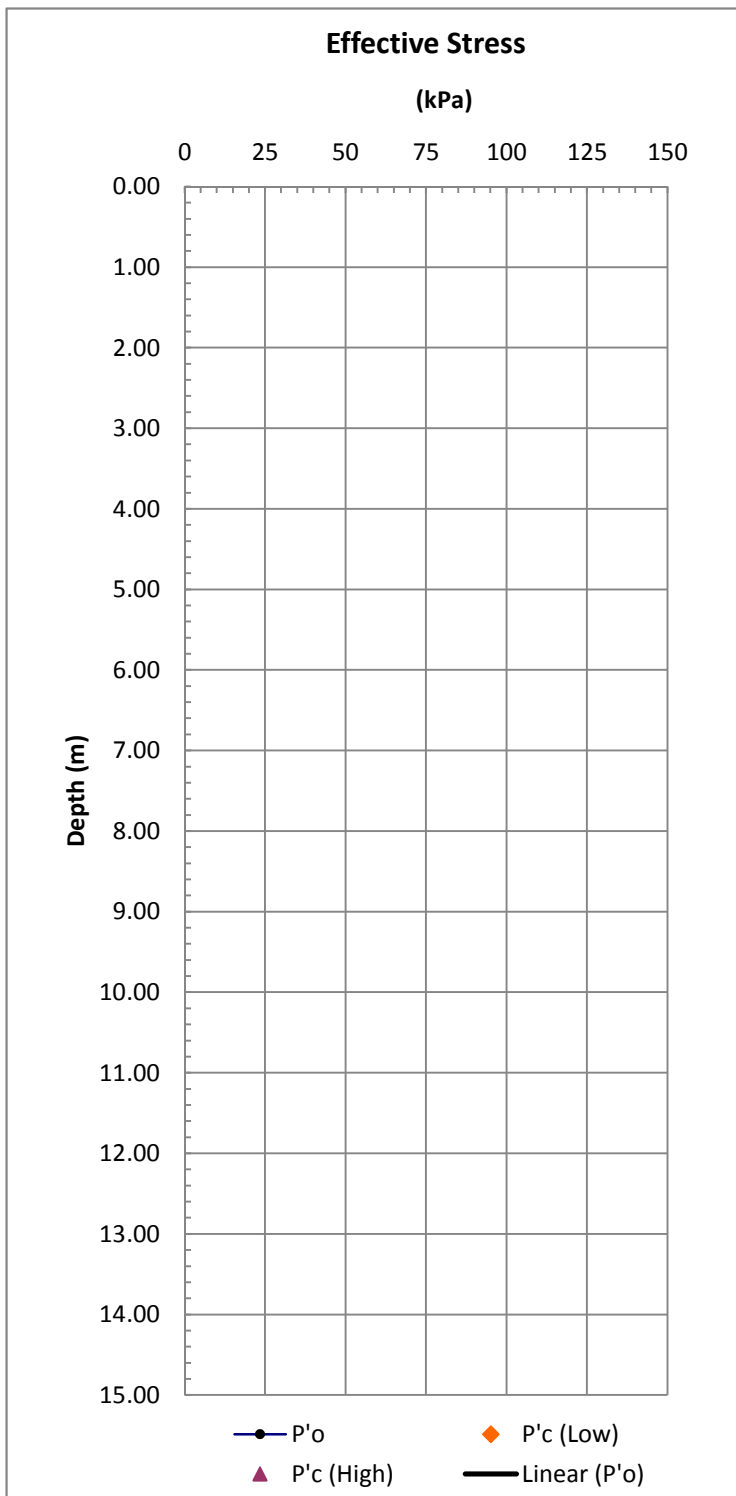
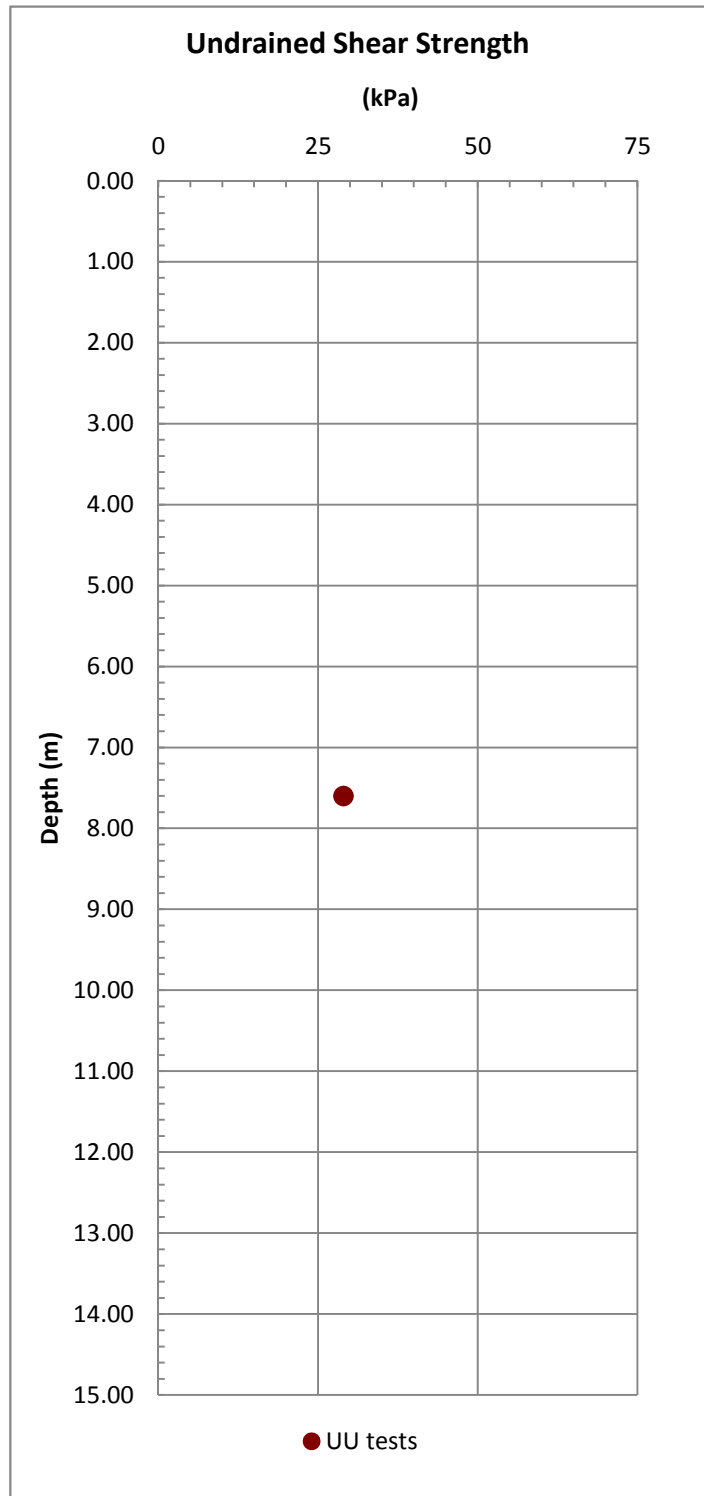
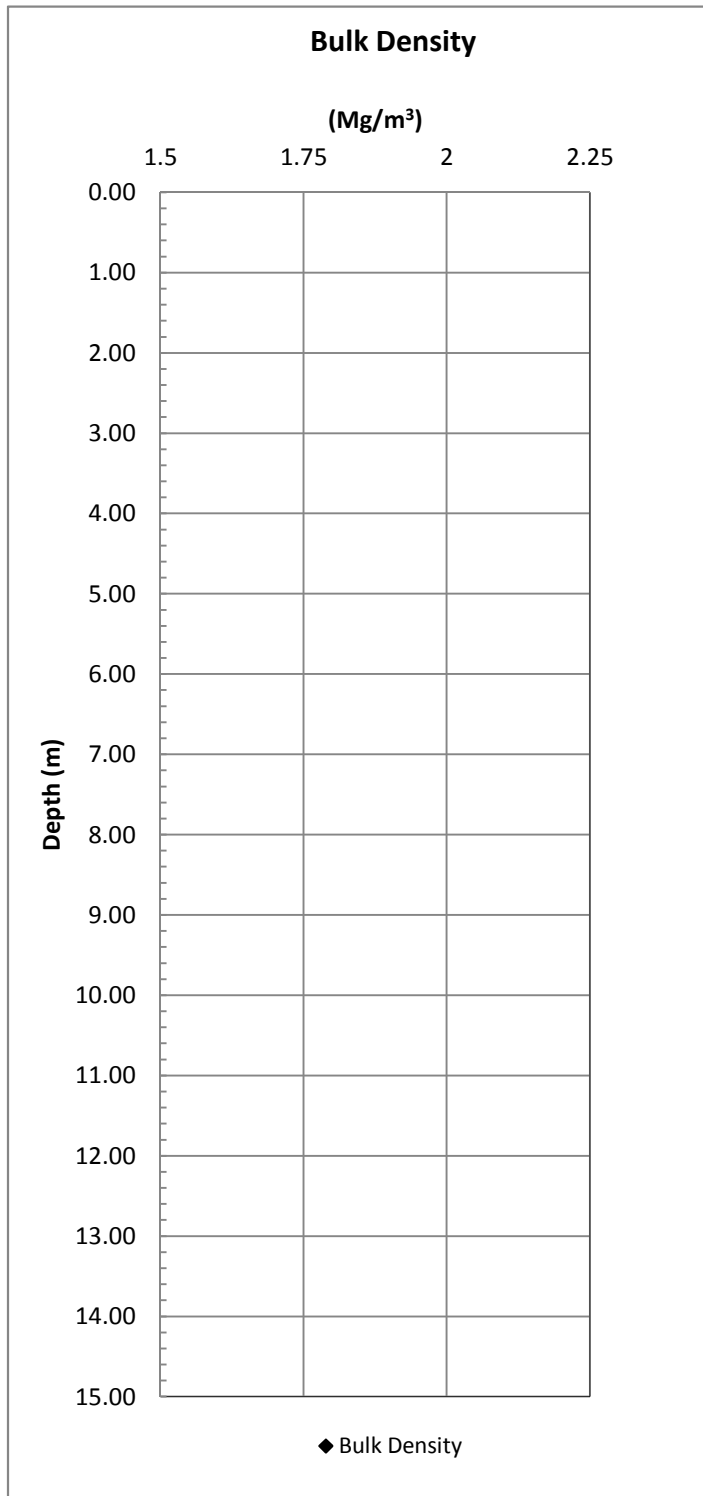
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10033 Beaufort Data



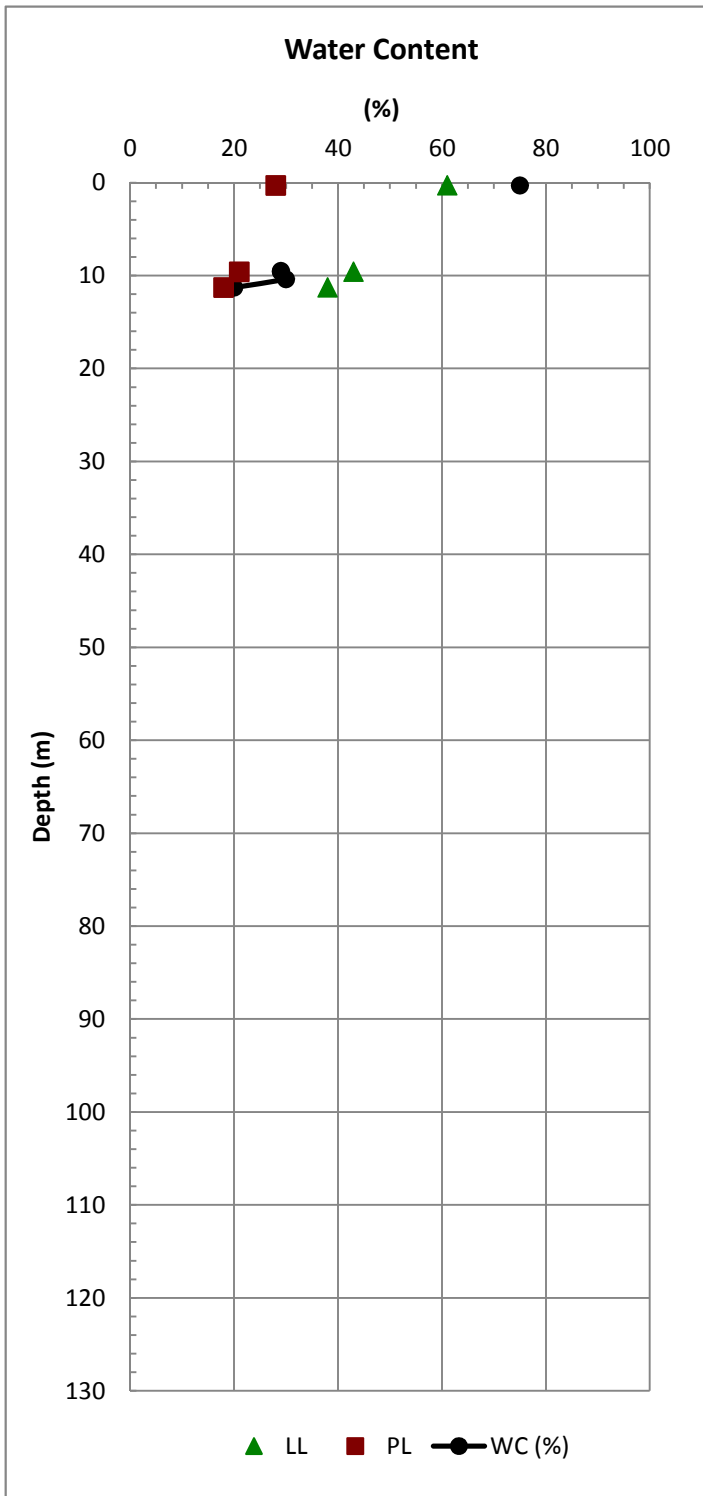
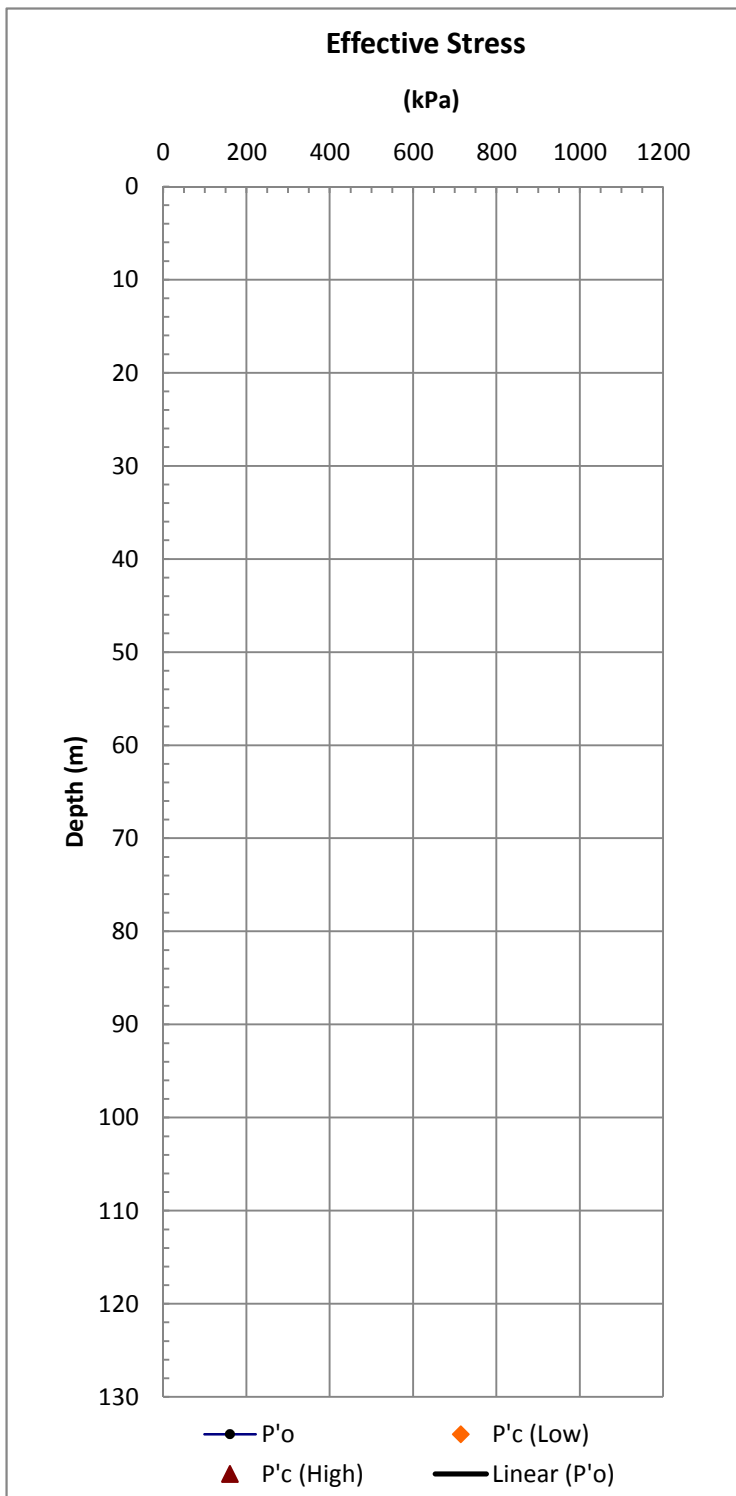
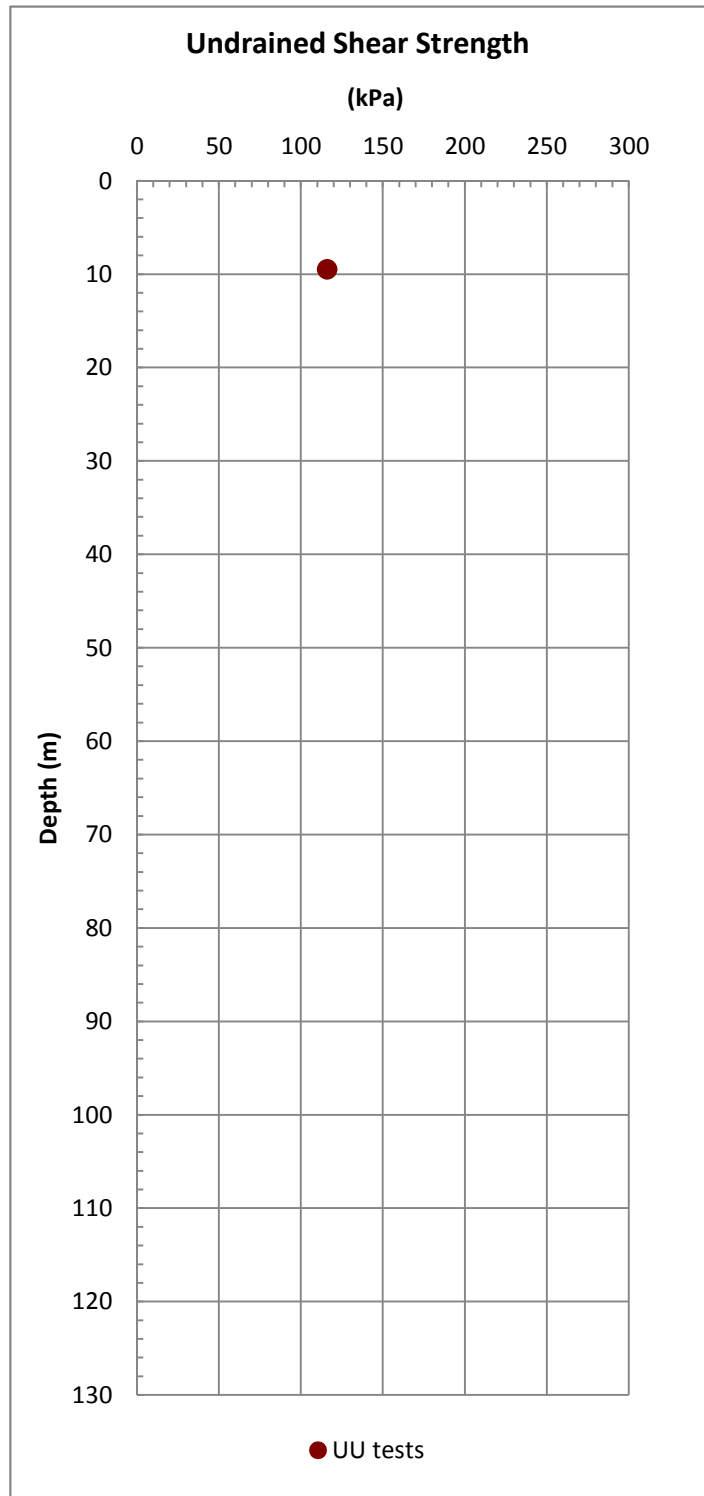
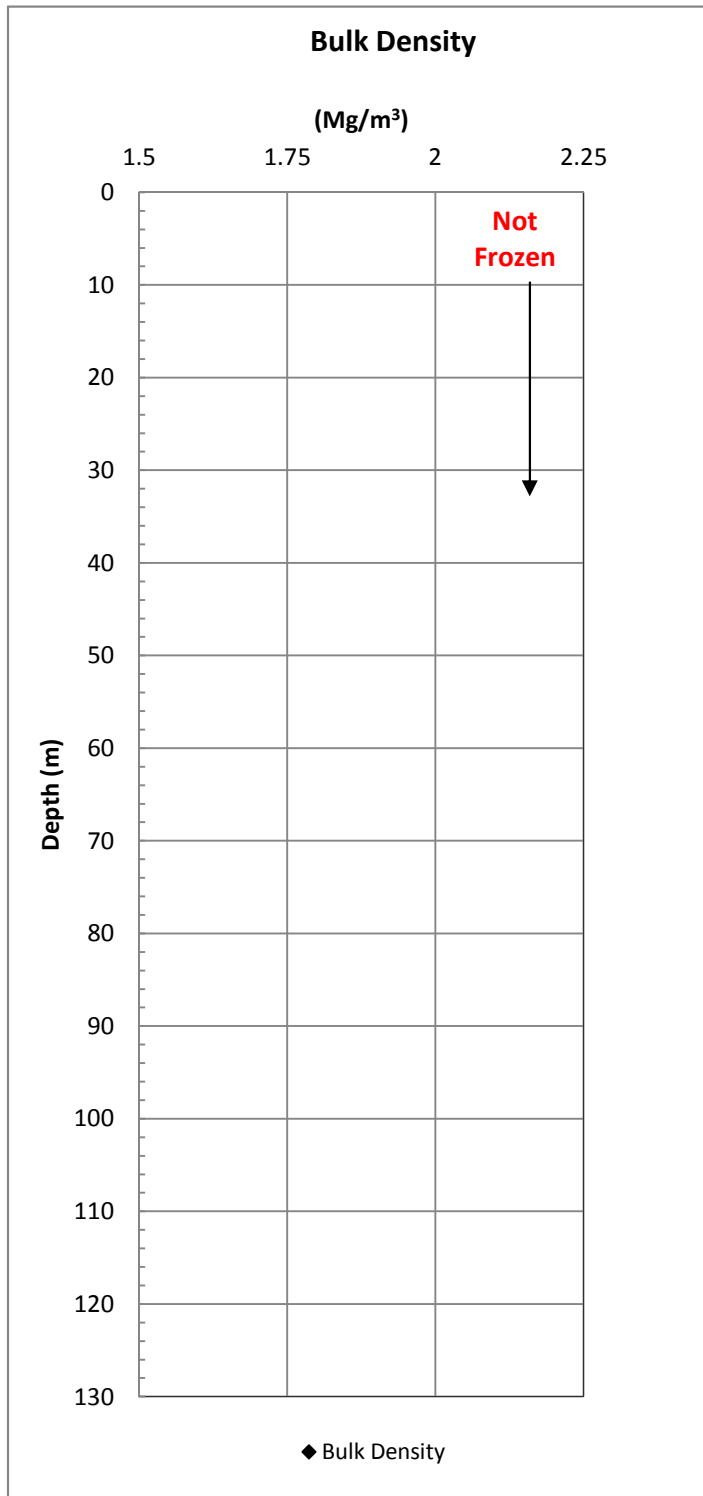
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Figure C.3
 10033 Beaufort Data



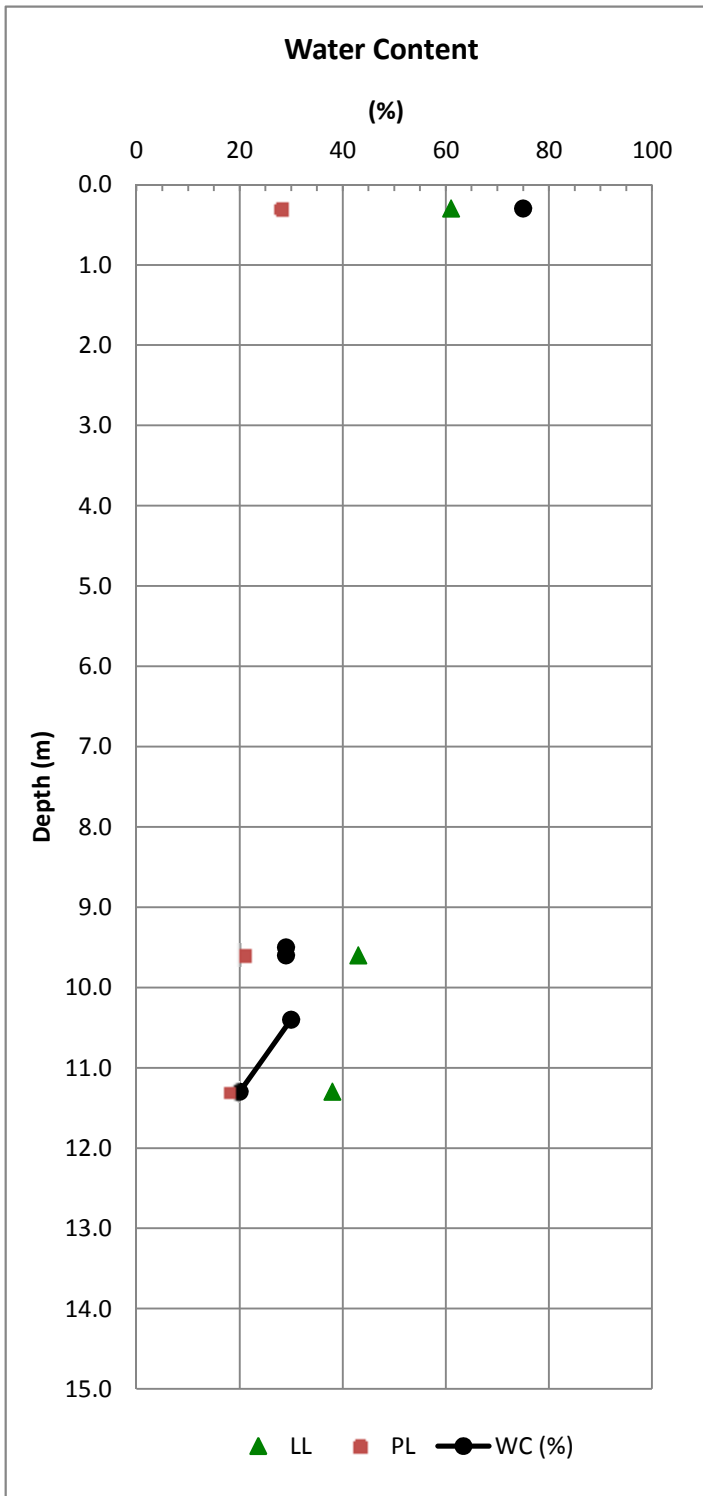
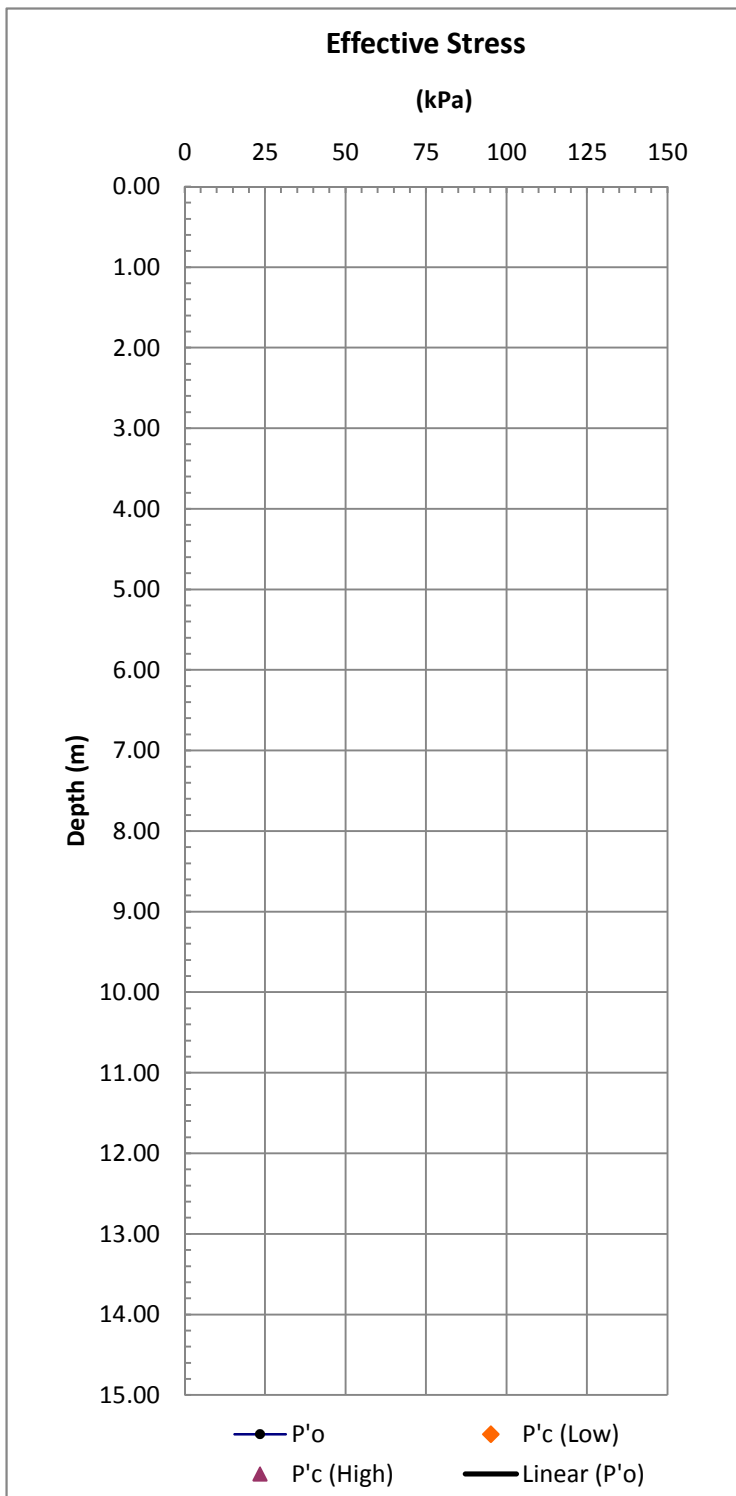
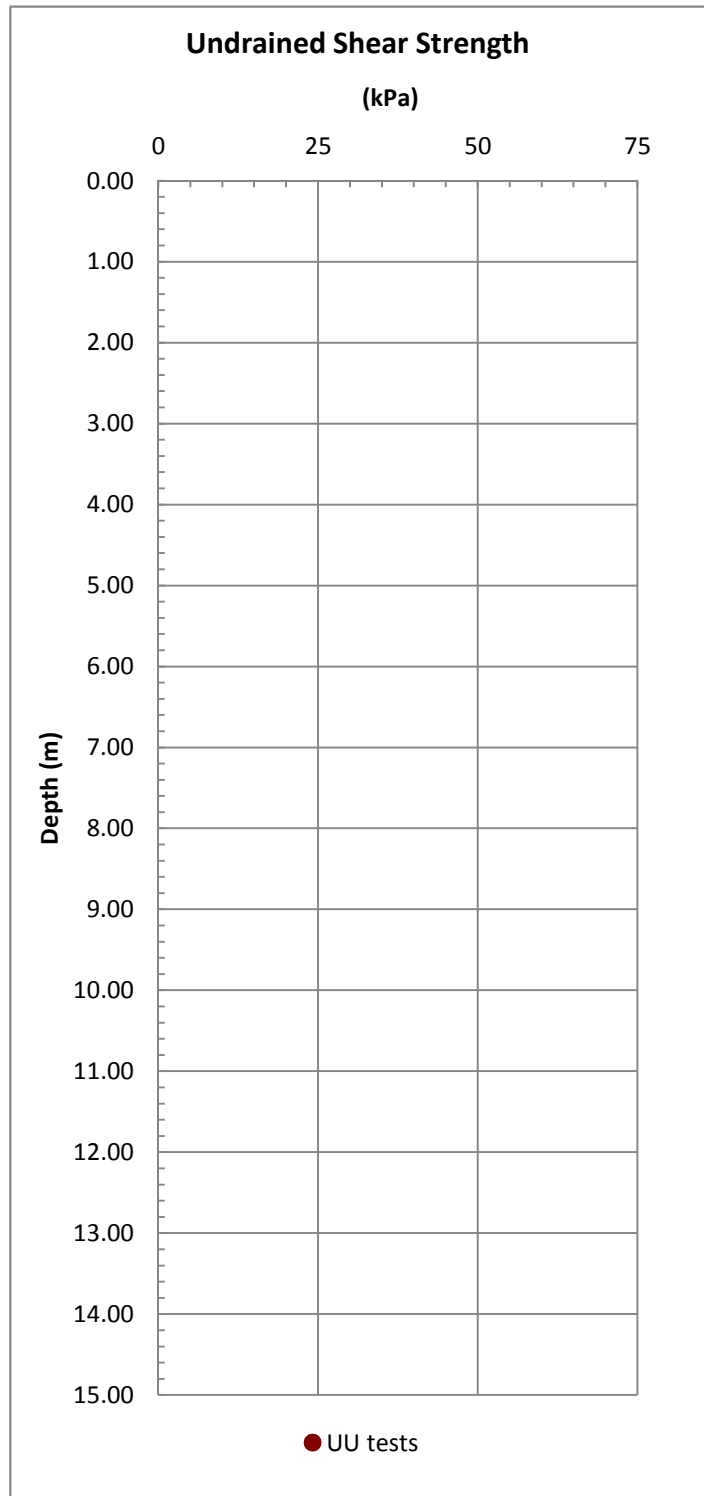
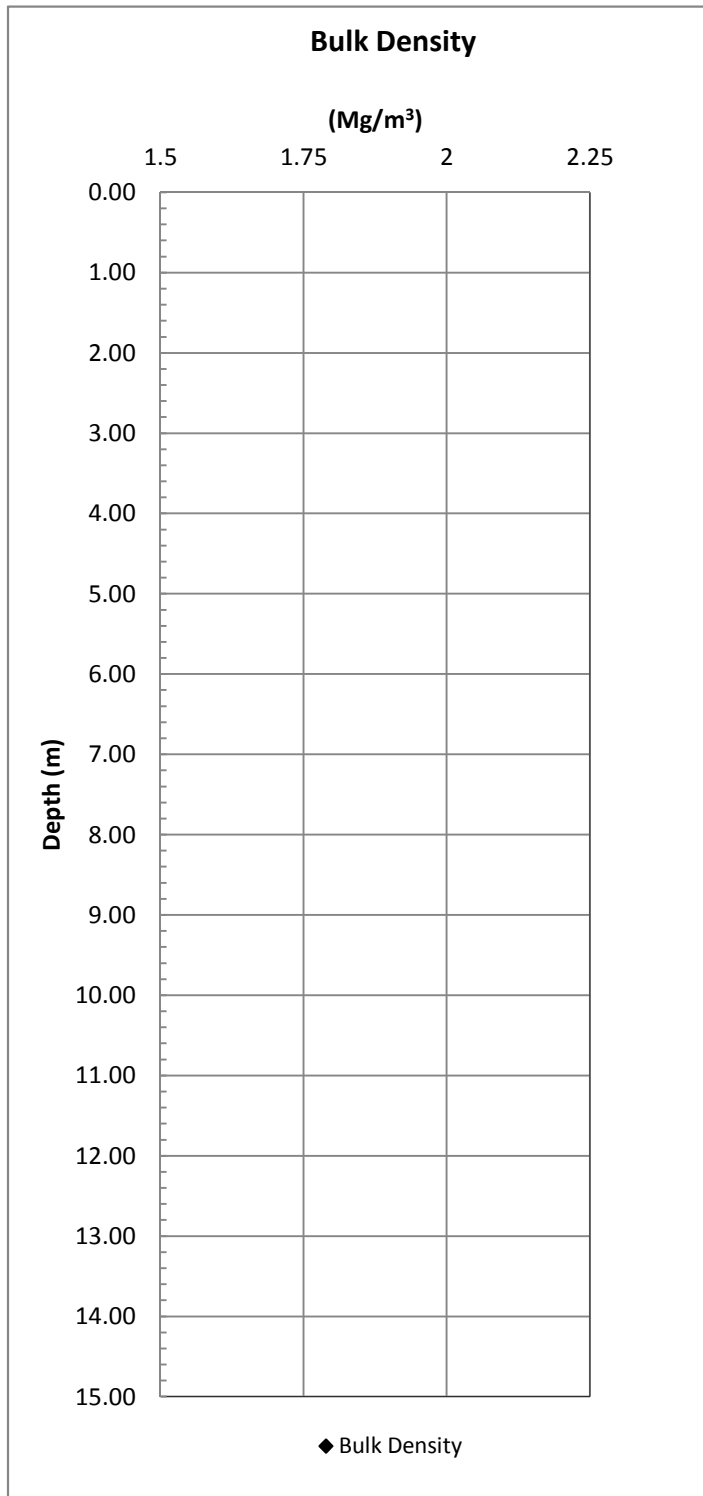
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Figure C.3
 10033 Beaufort Data



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Nerlerk B-Ner 3:3
Figure C.3
 10033 Beaufort Data

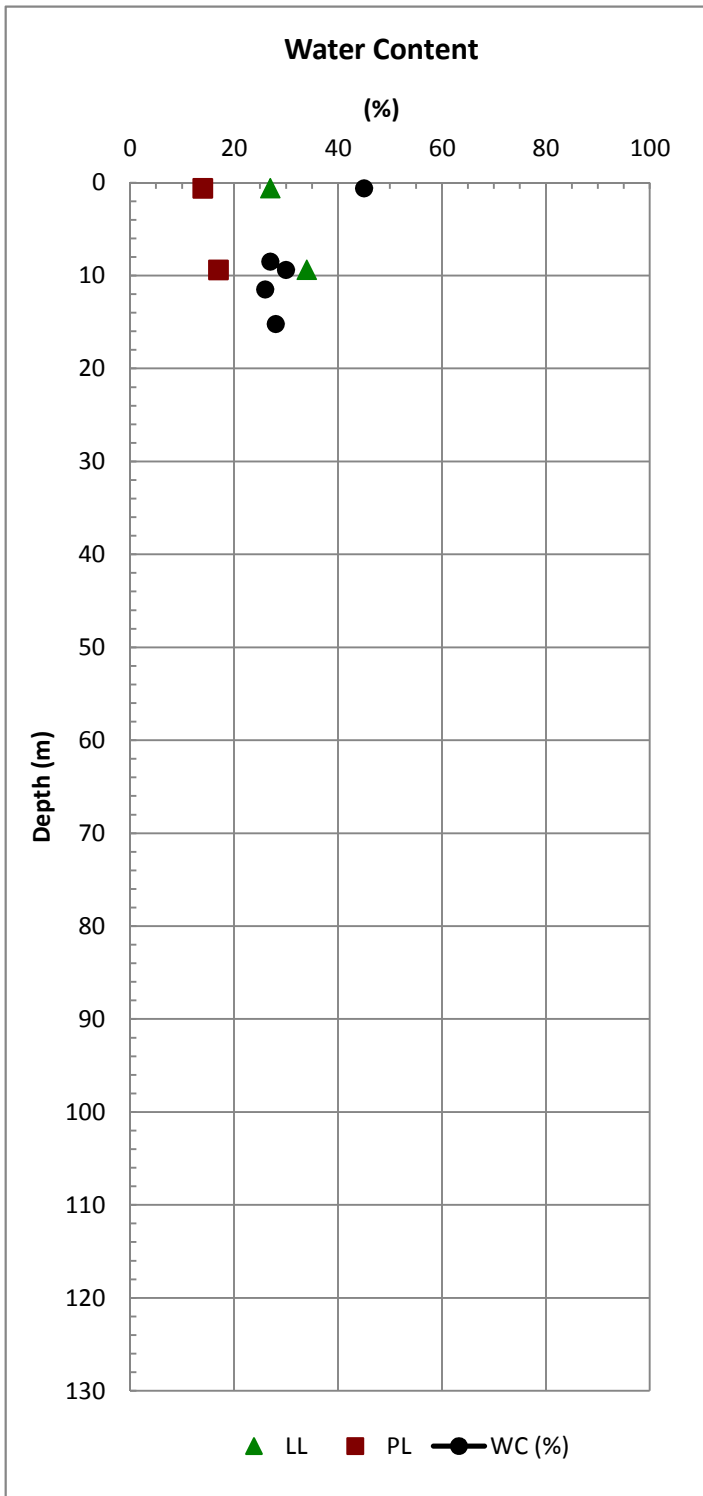
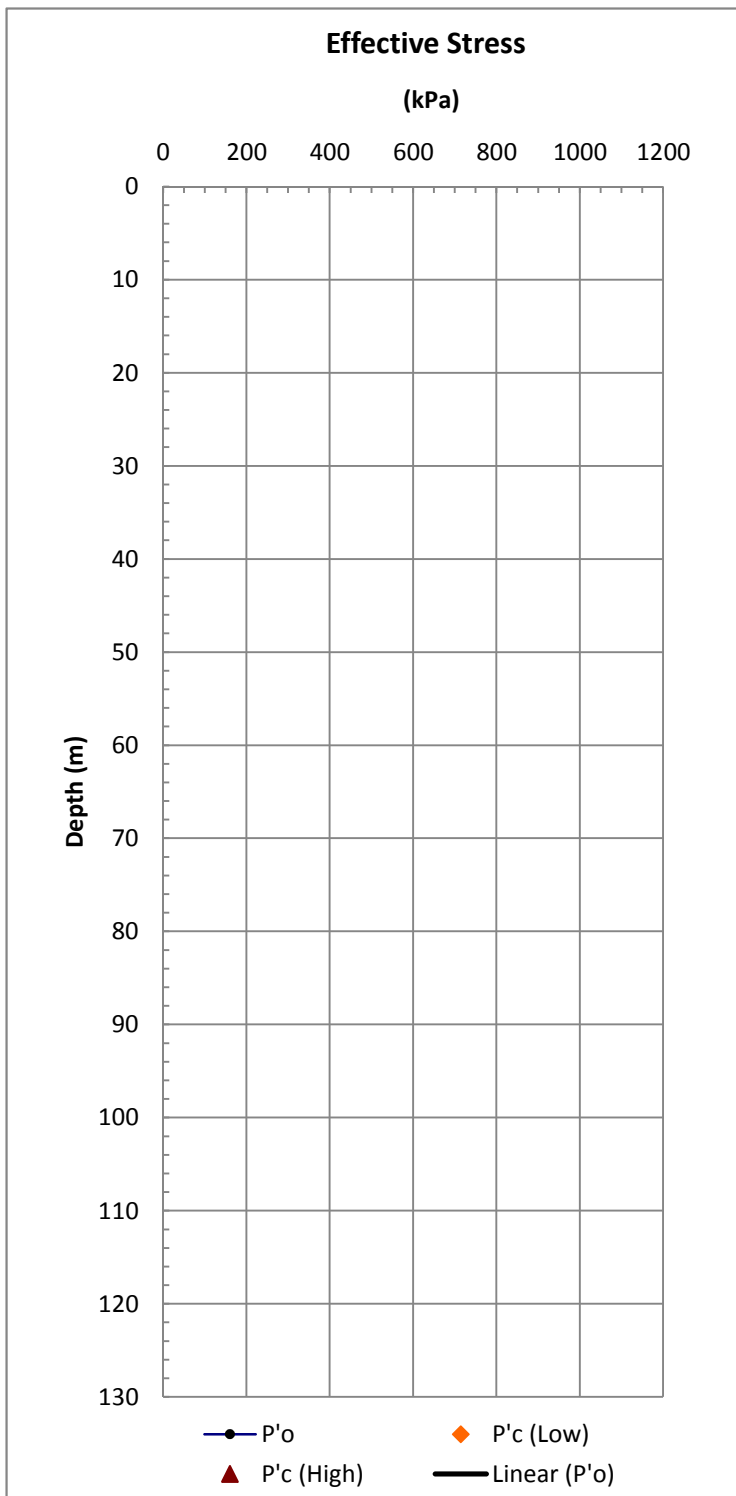
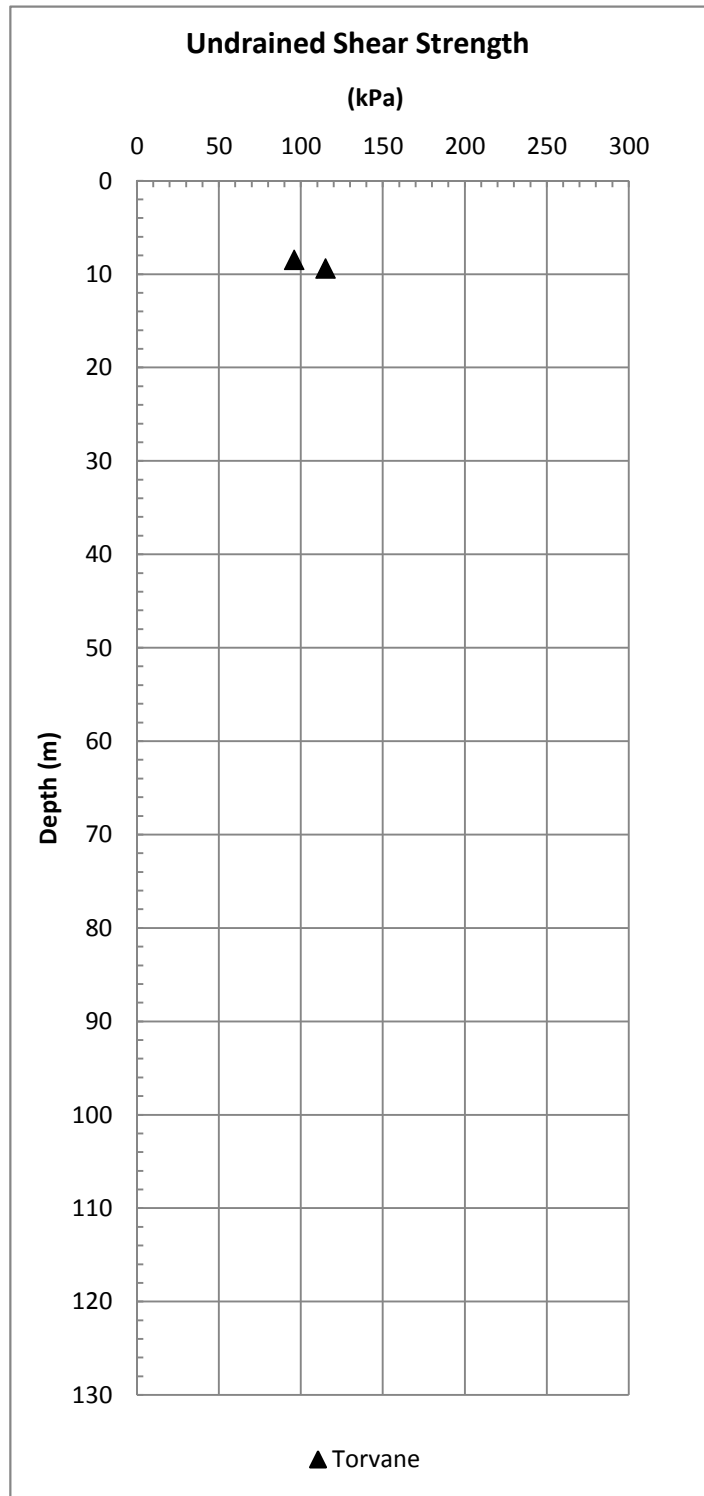
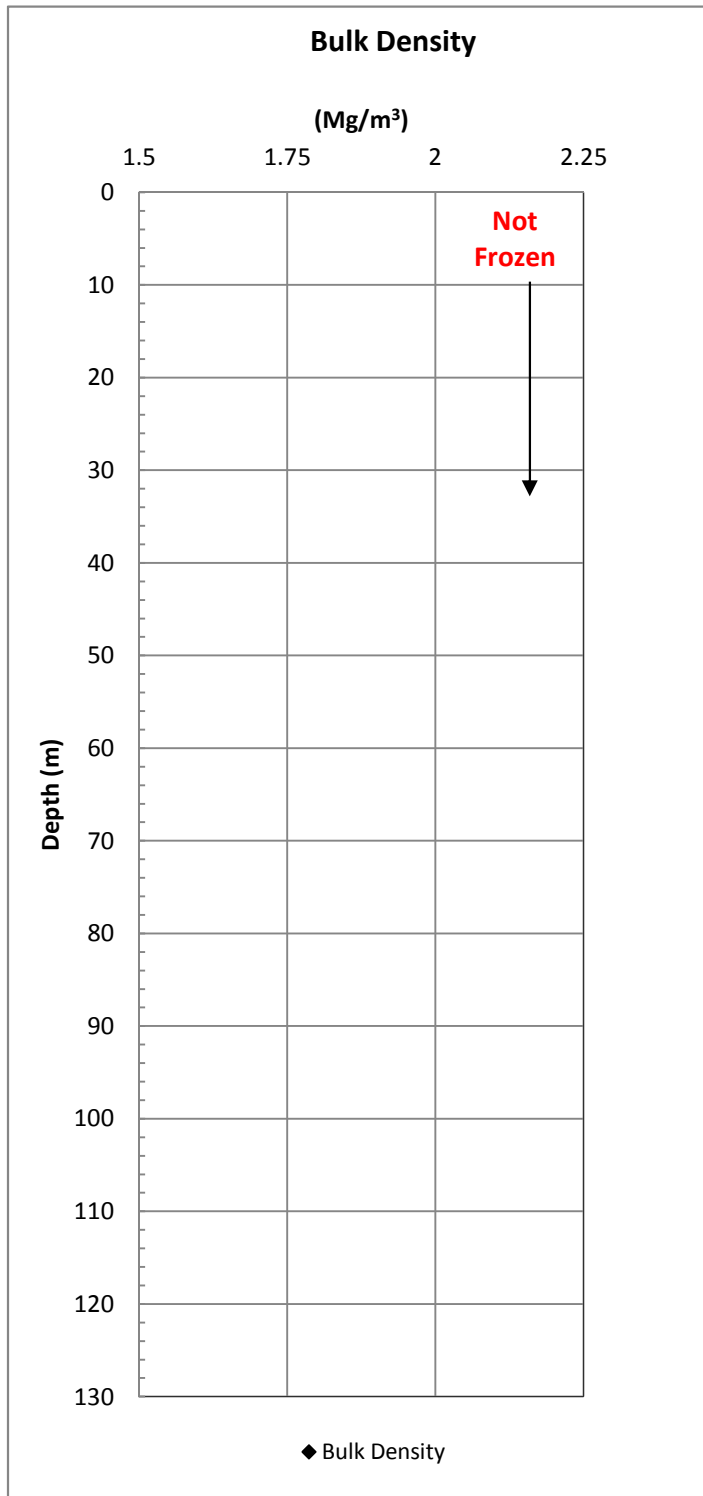


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Nerlerk B-Ner 3:3

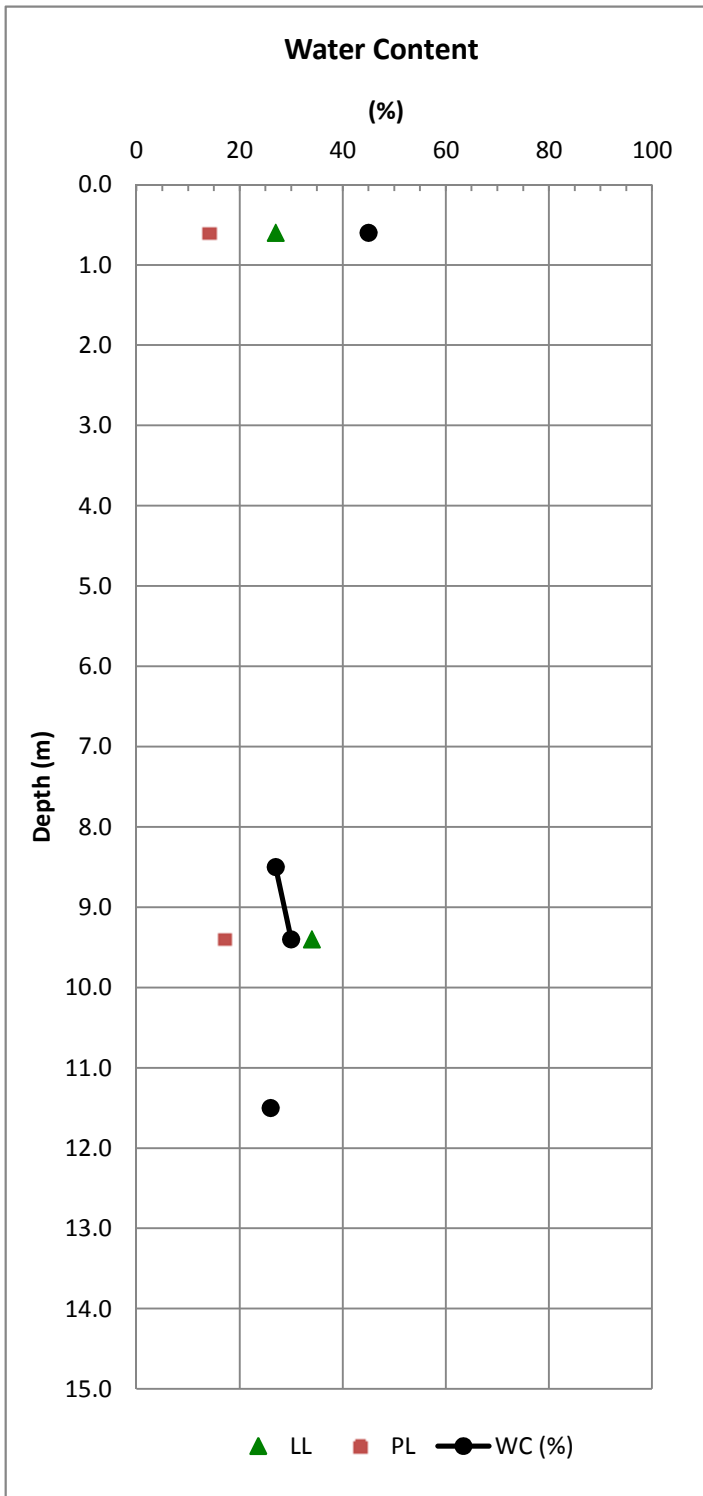
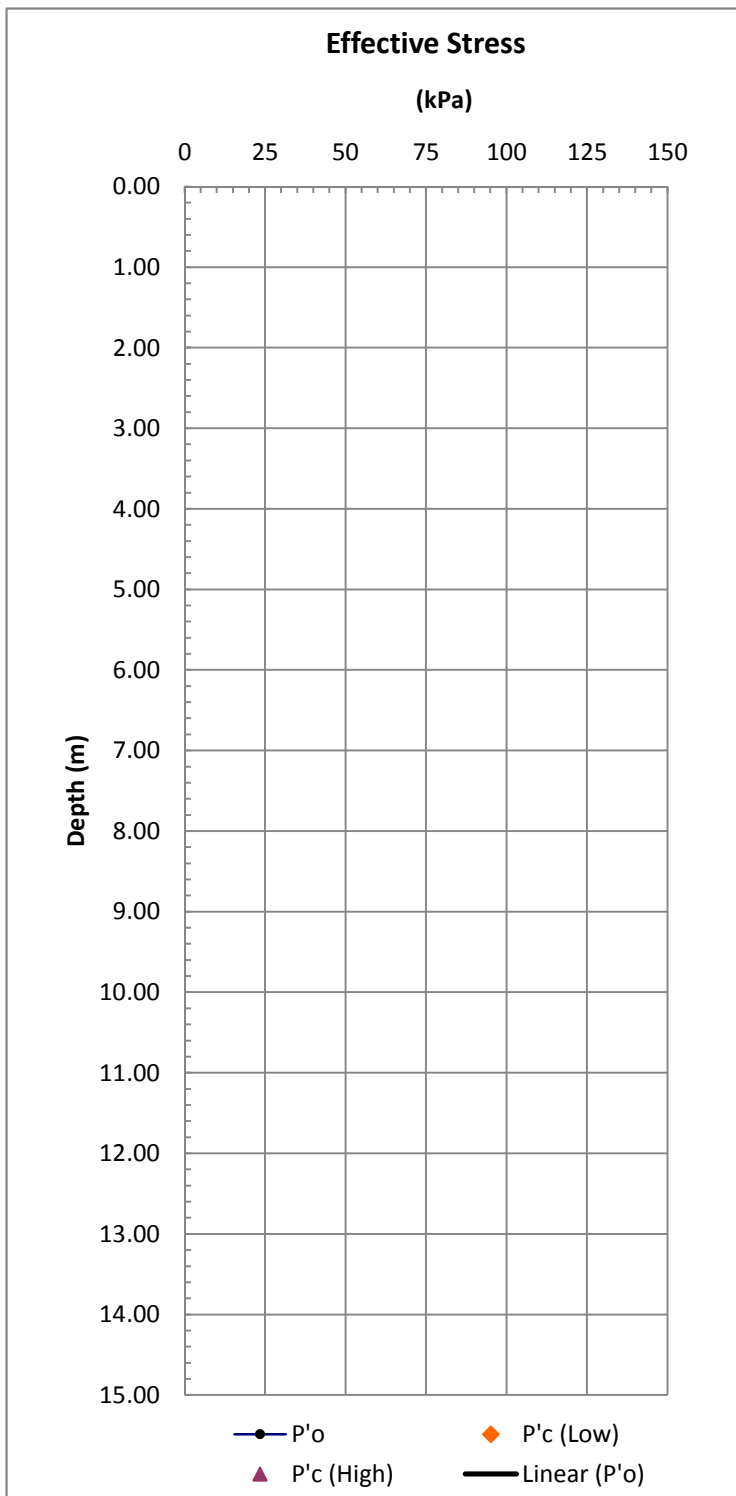
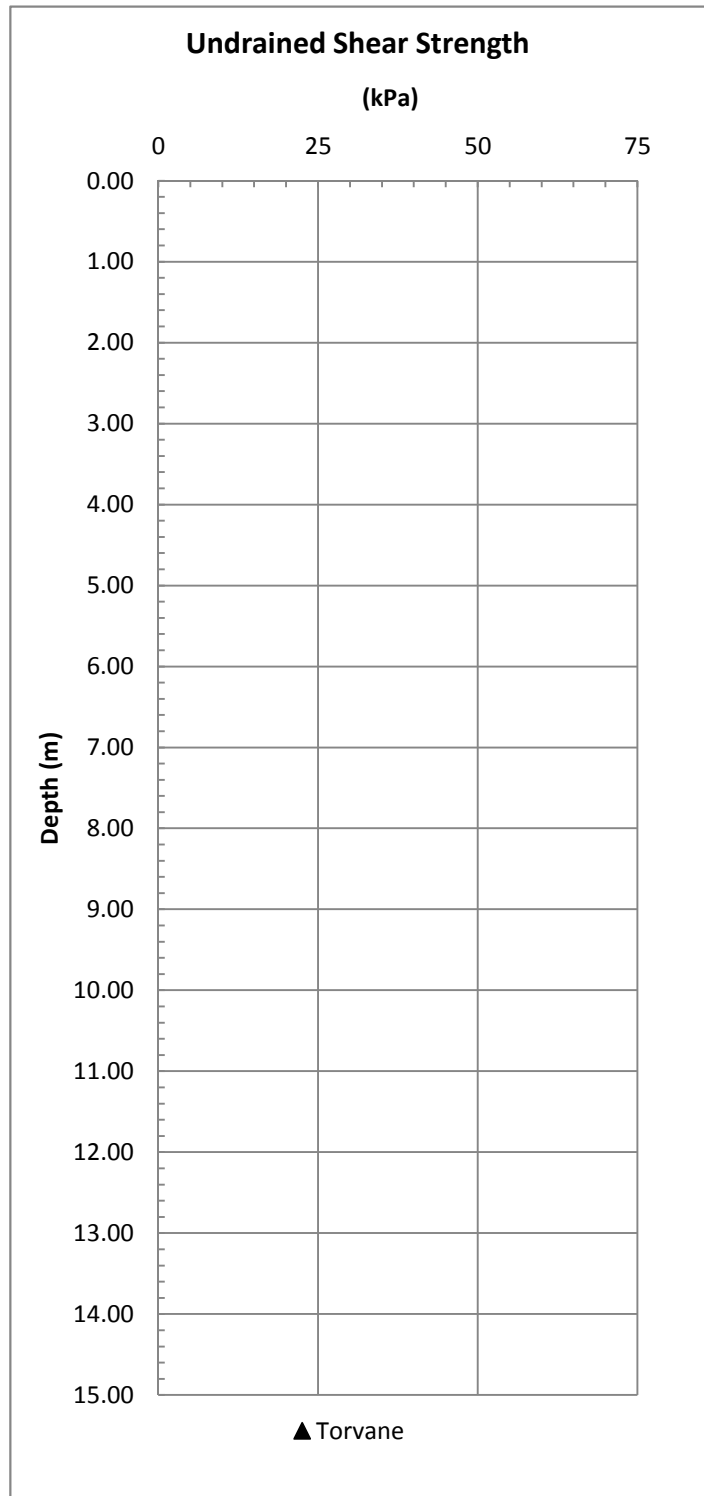
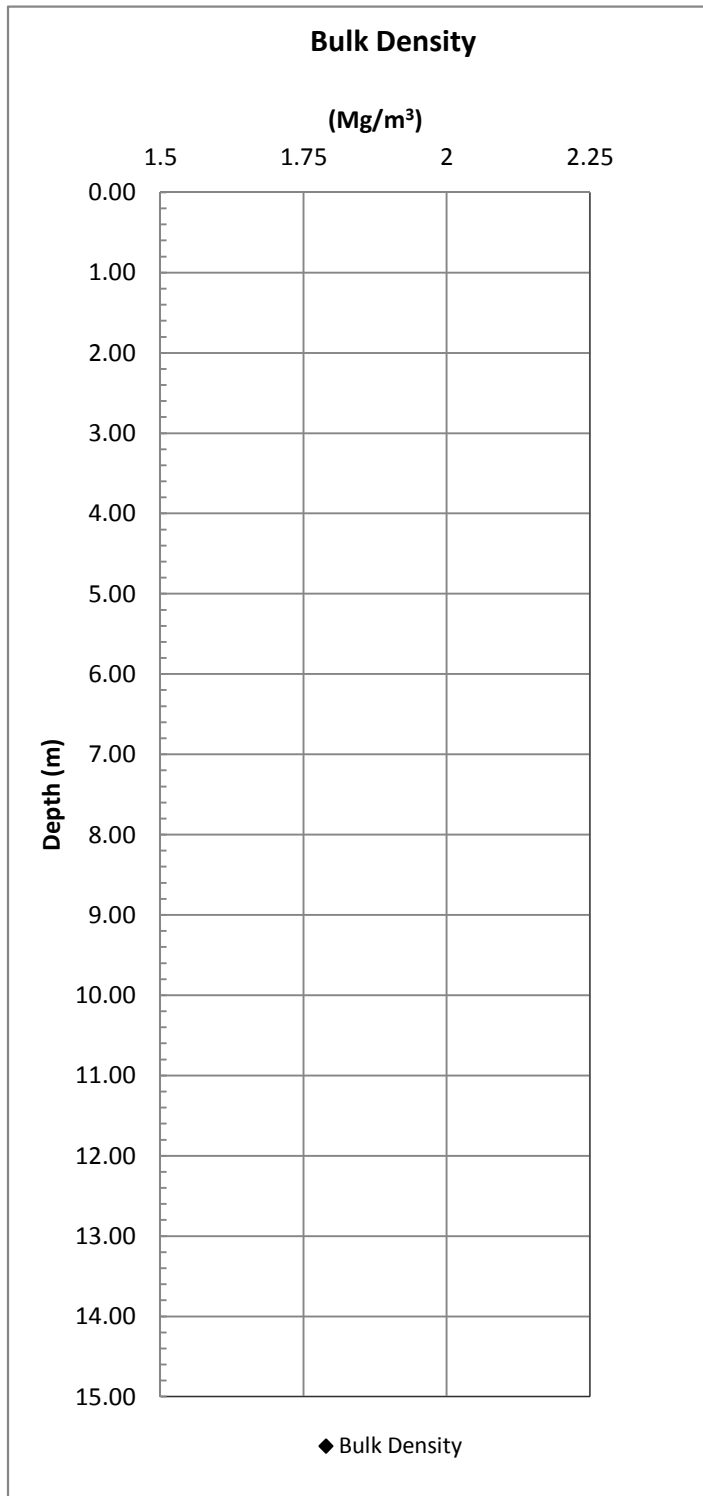
Figure C.3

10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

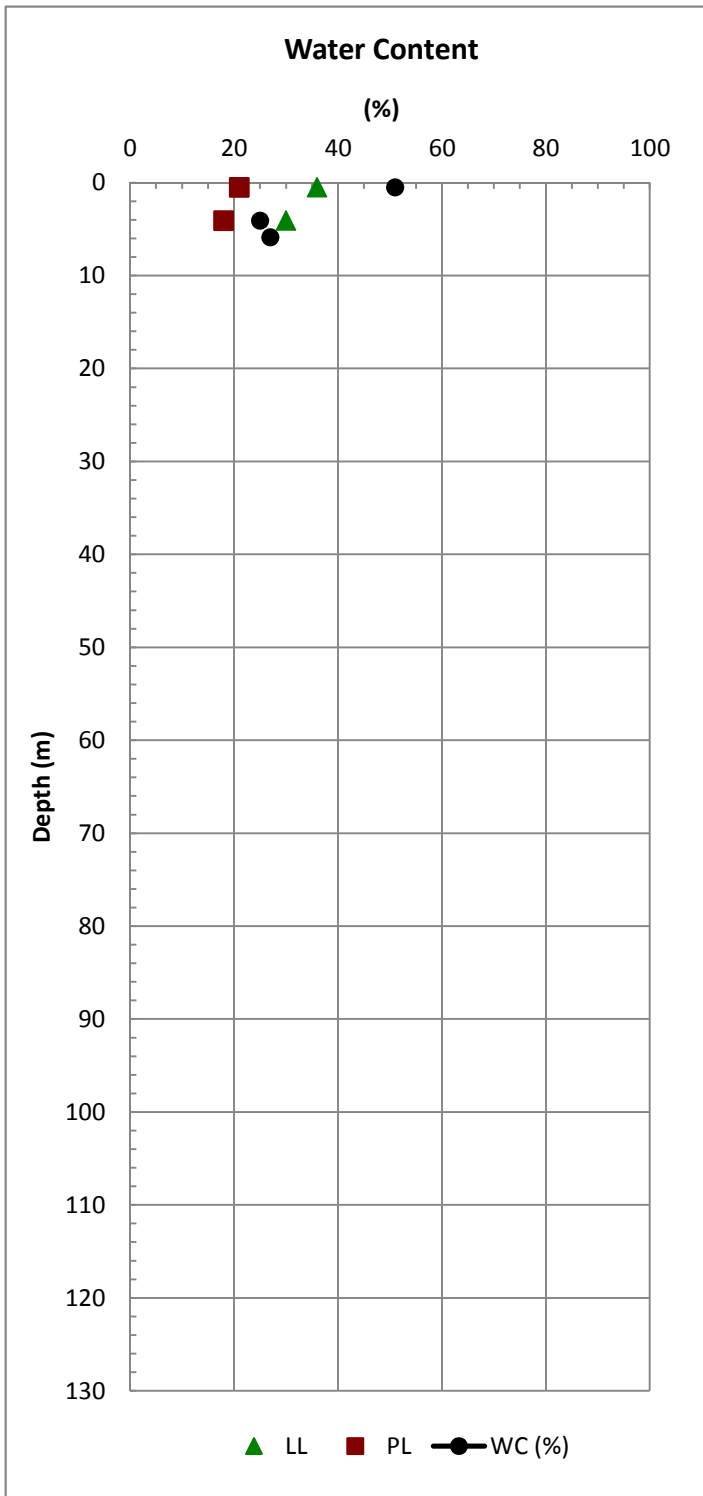
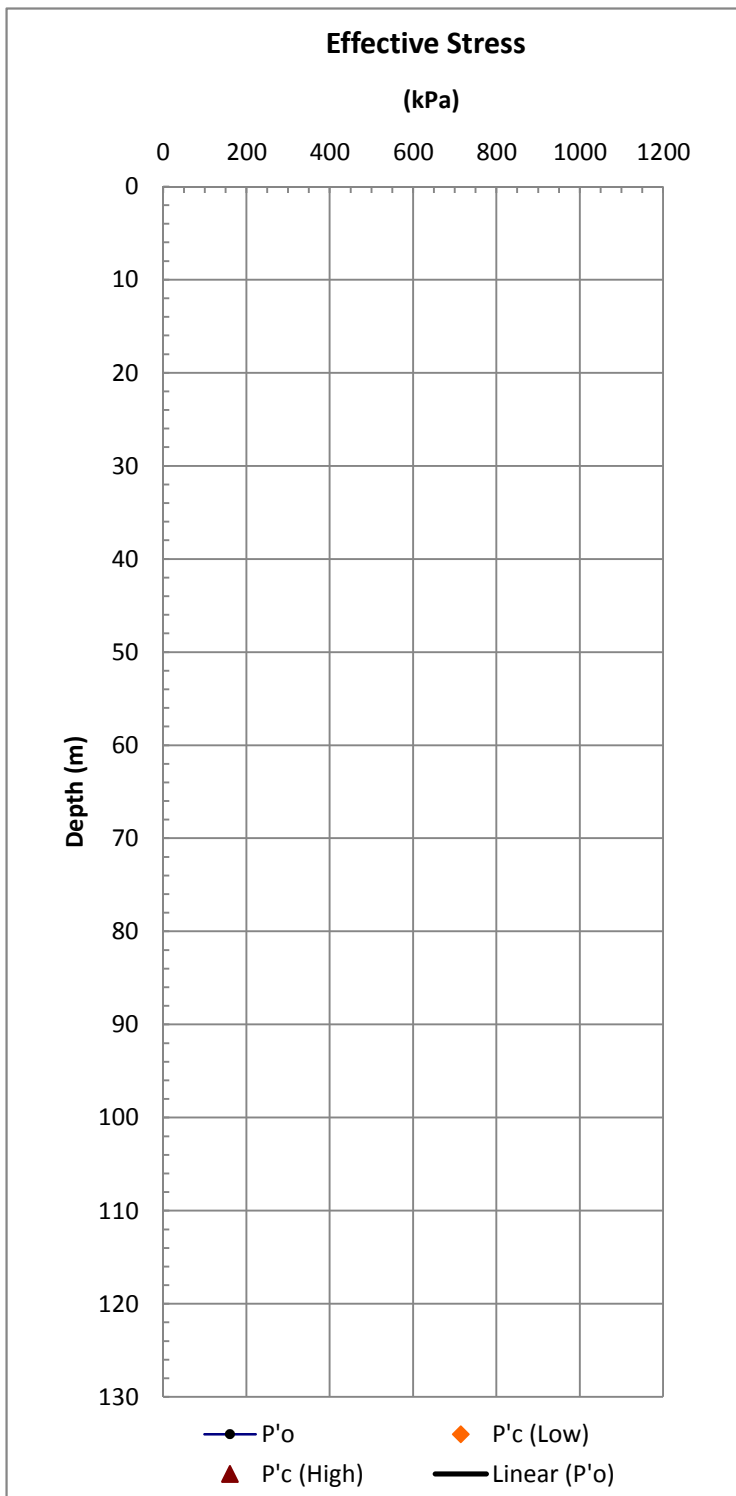
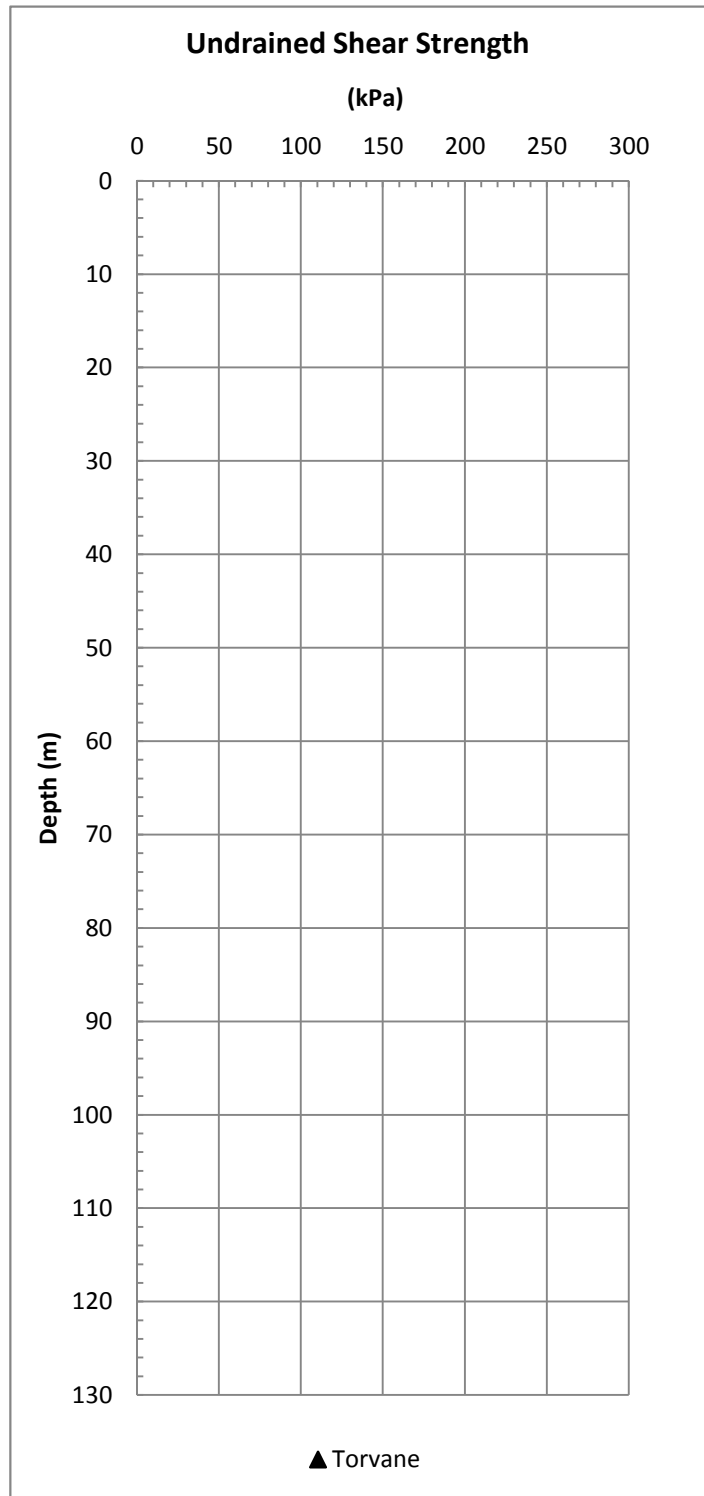
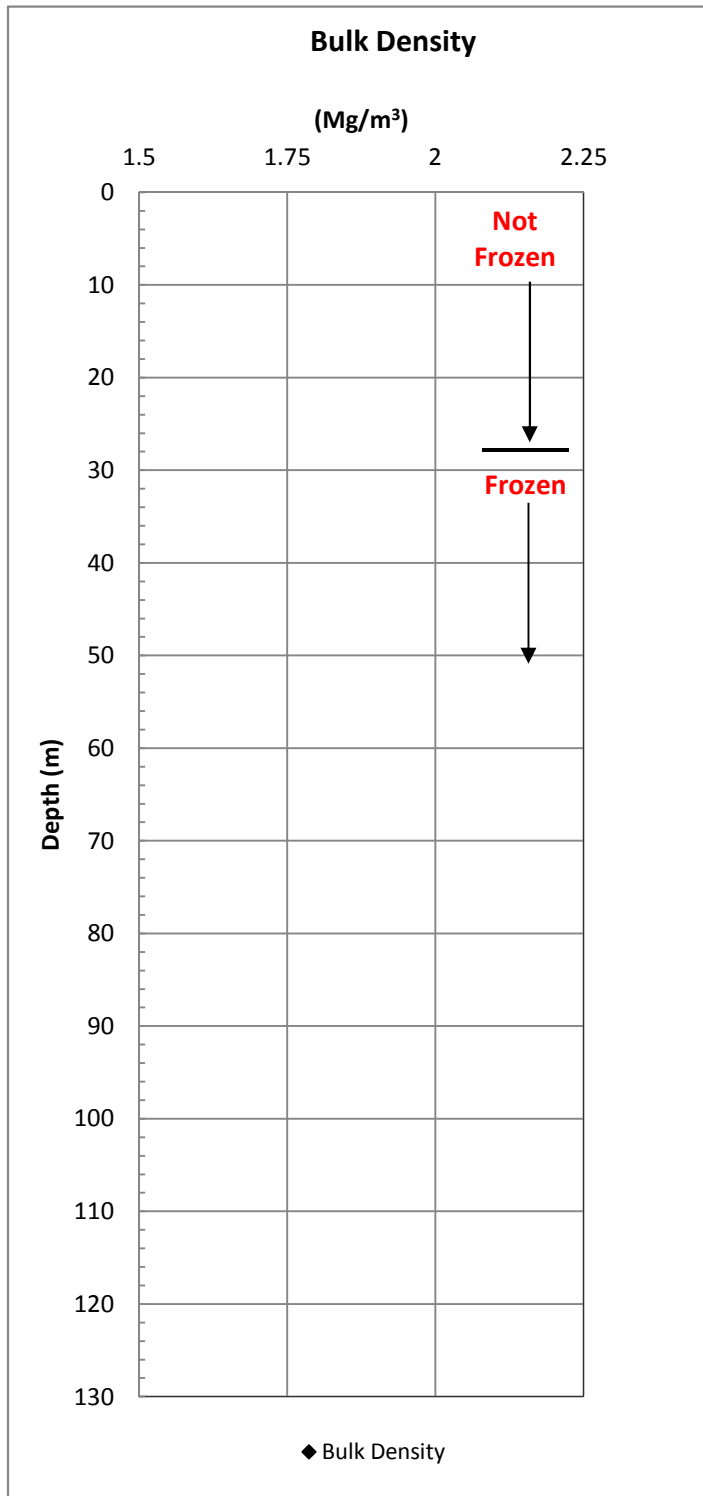


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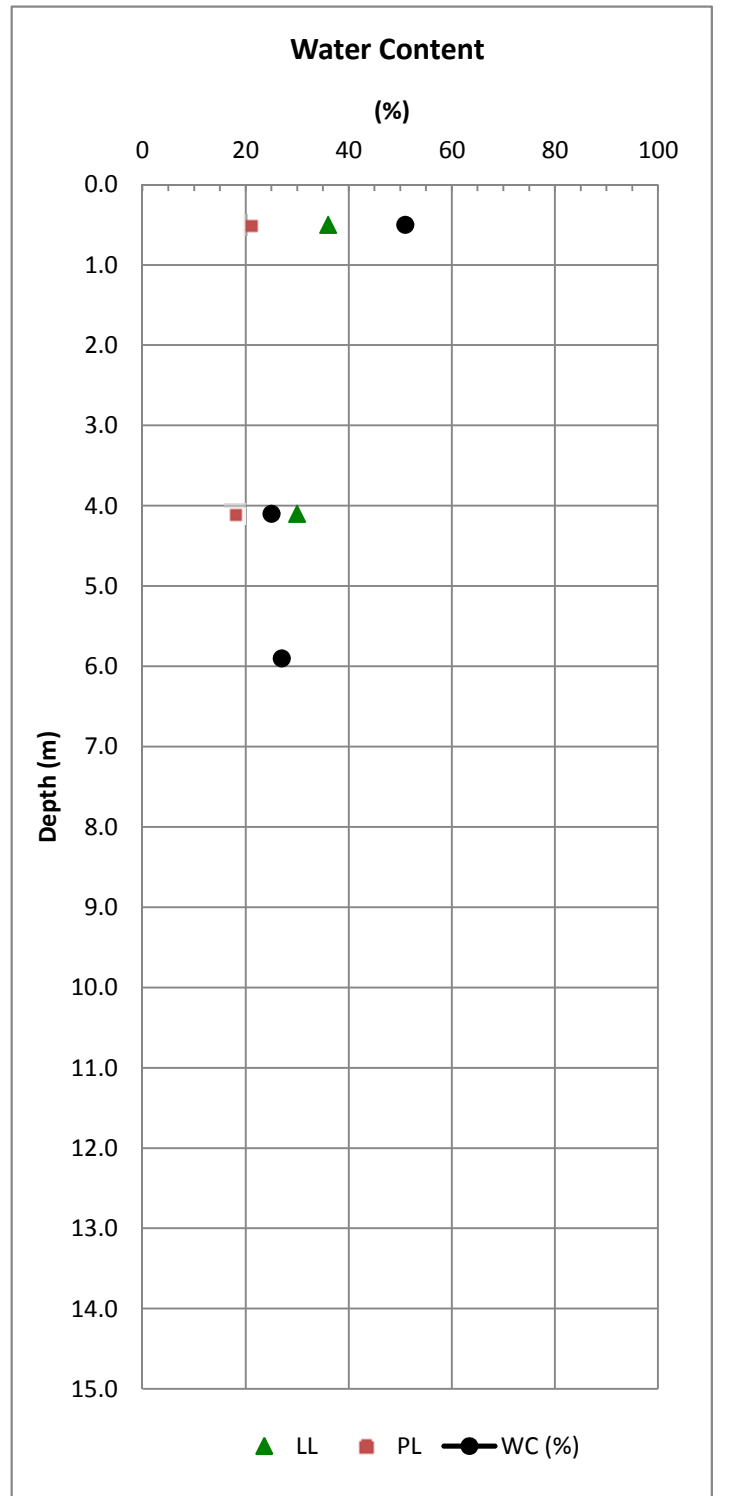
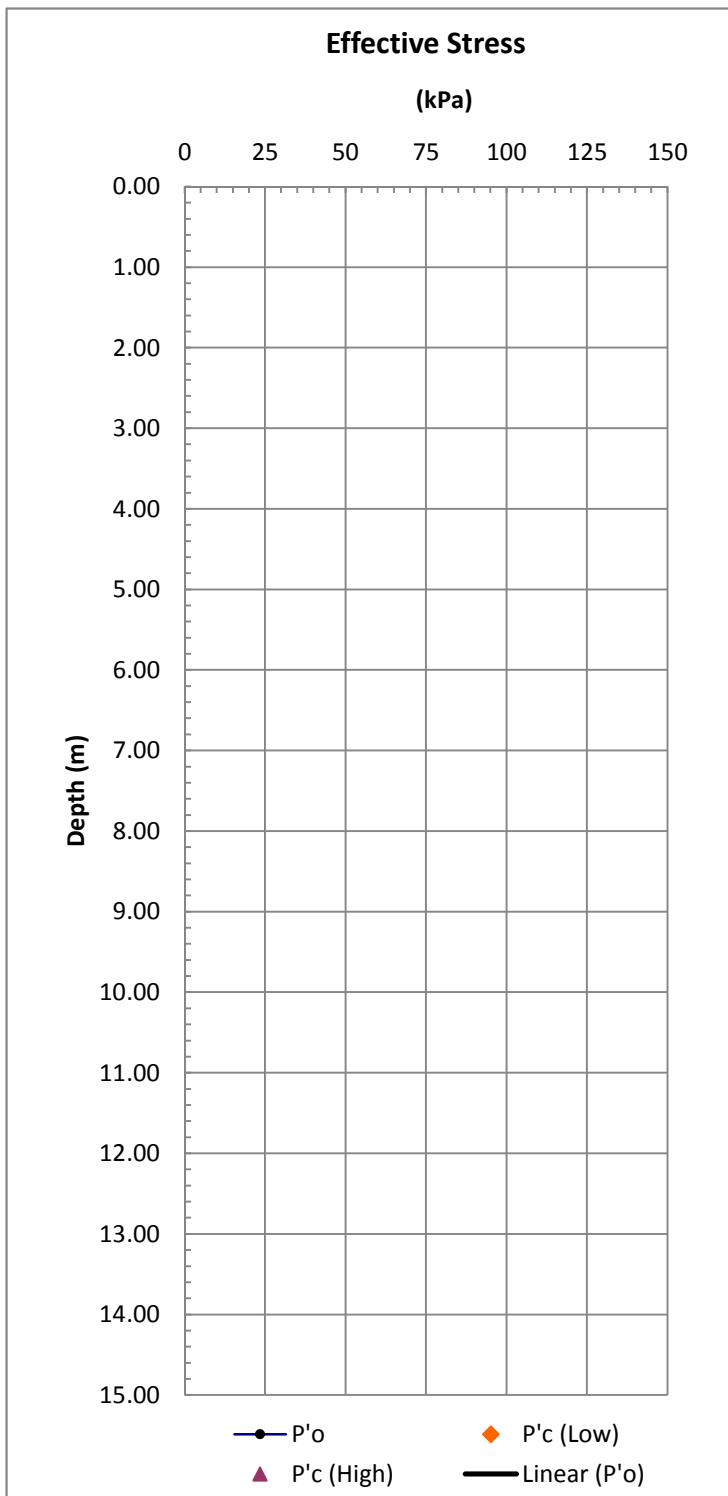
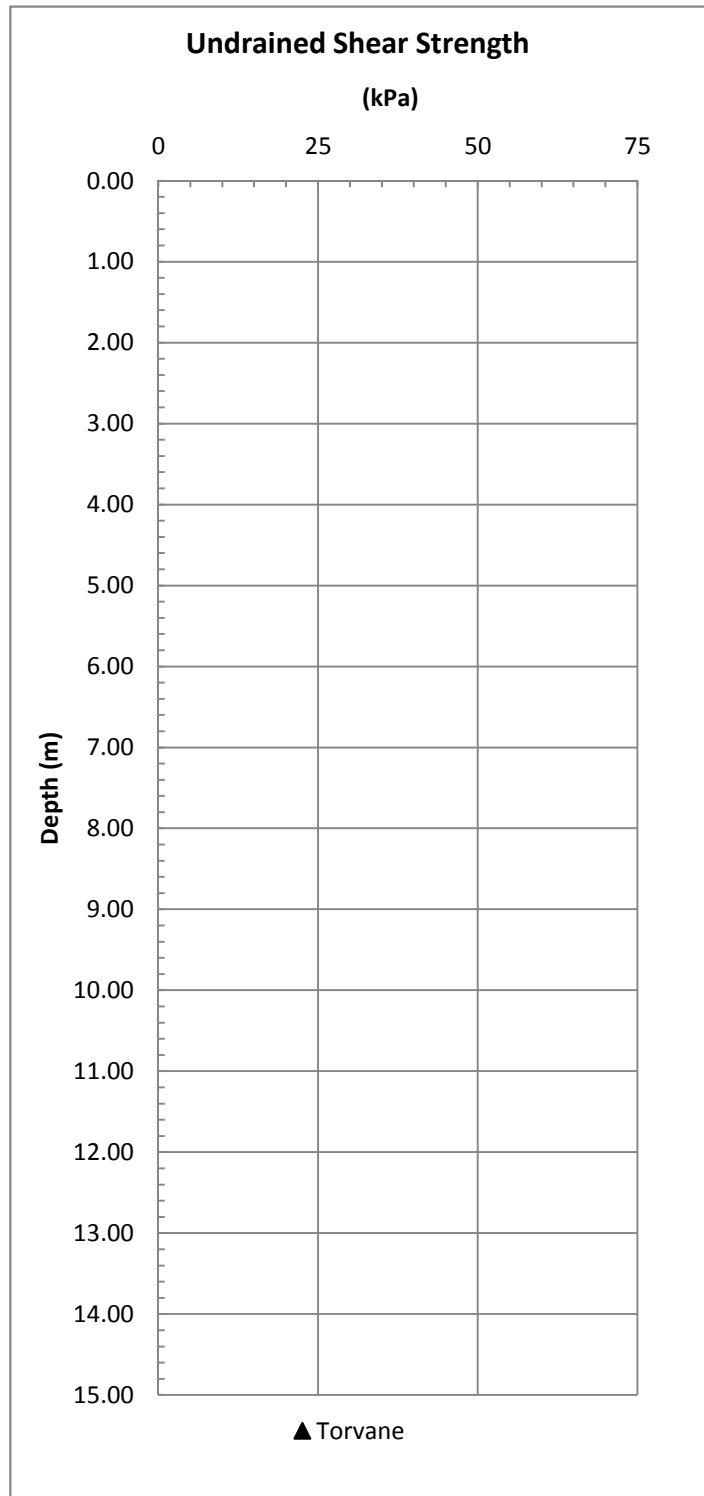
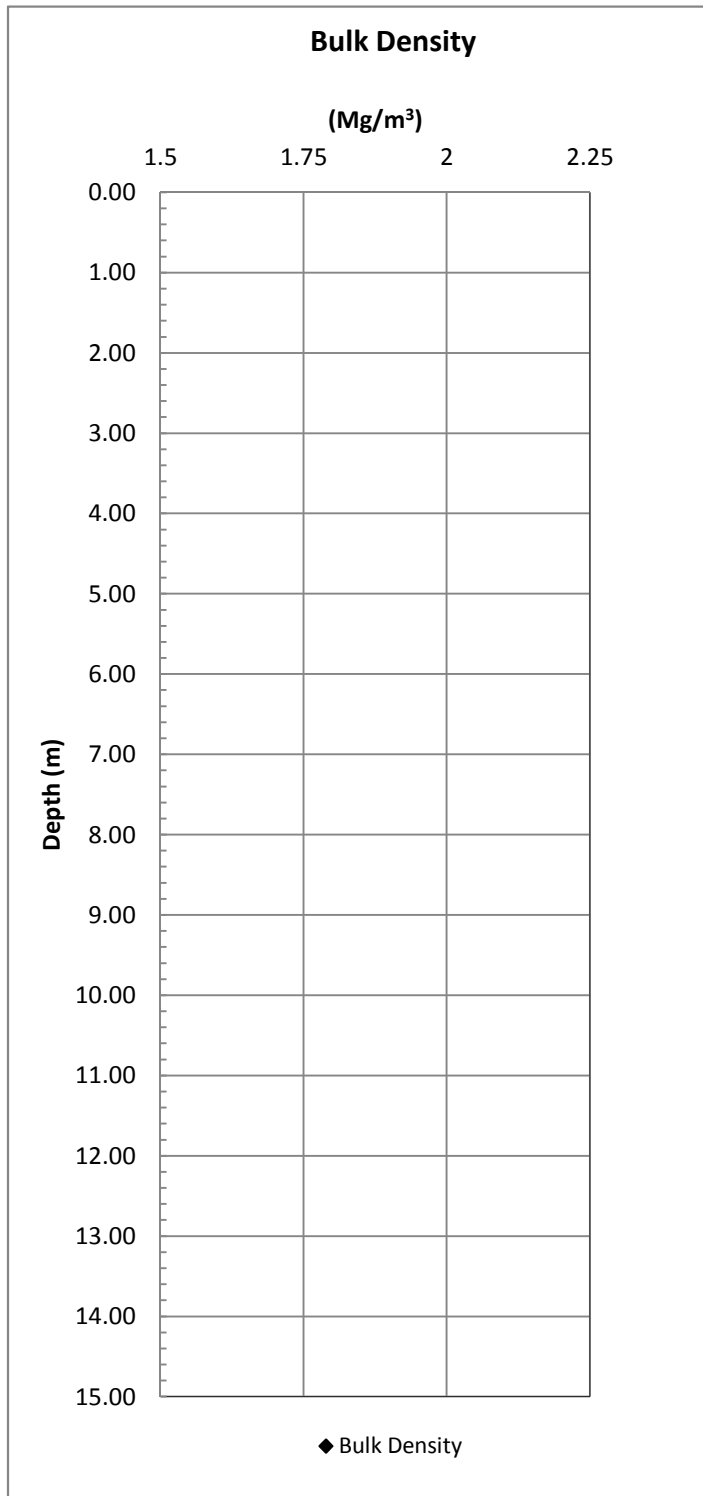
Figure C.3

10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

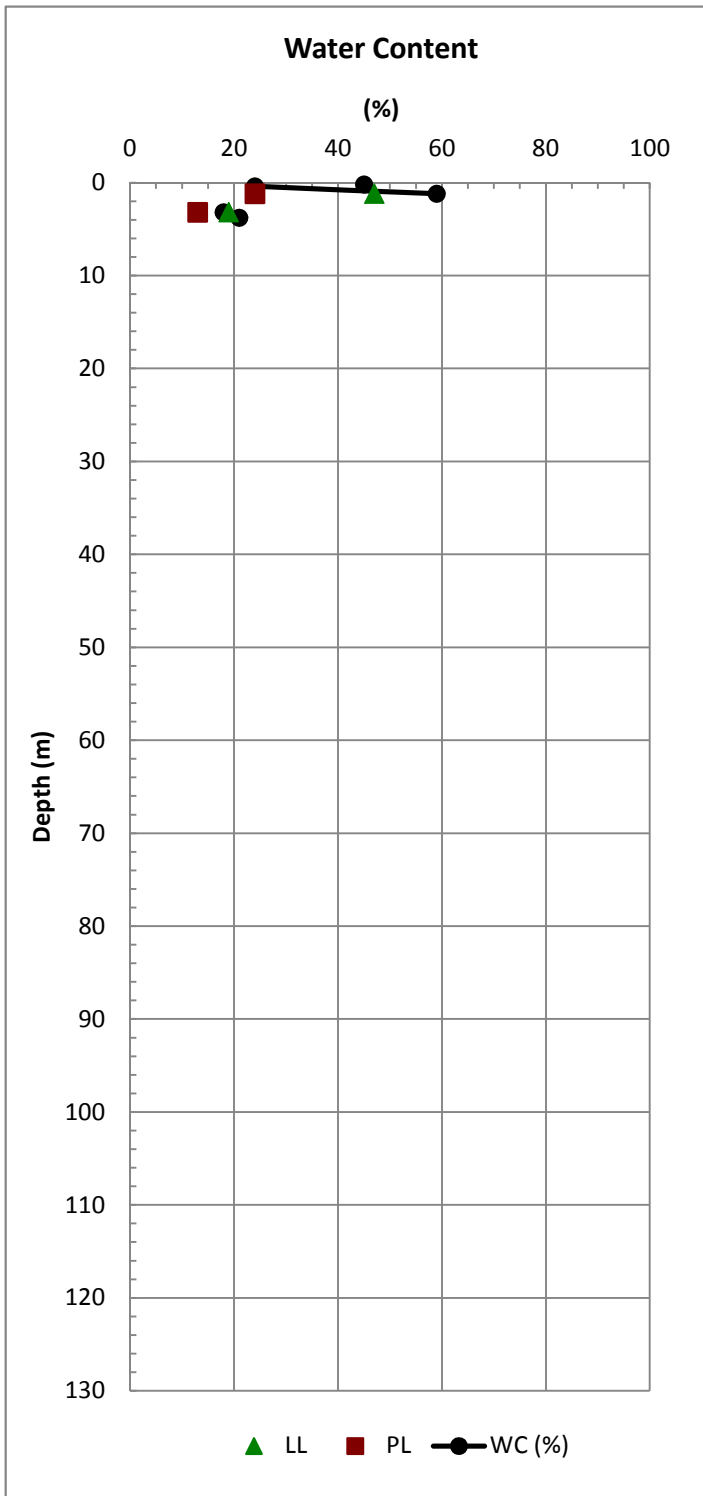
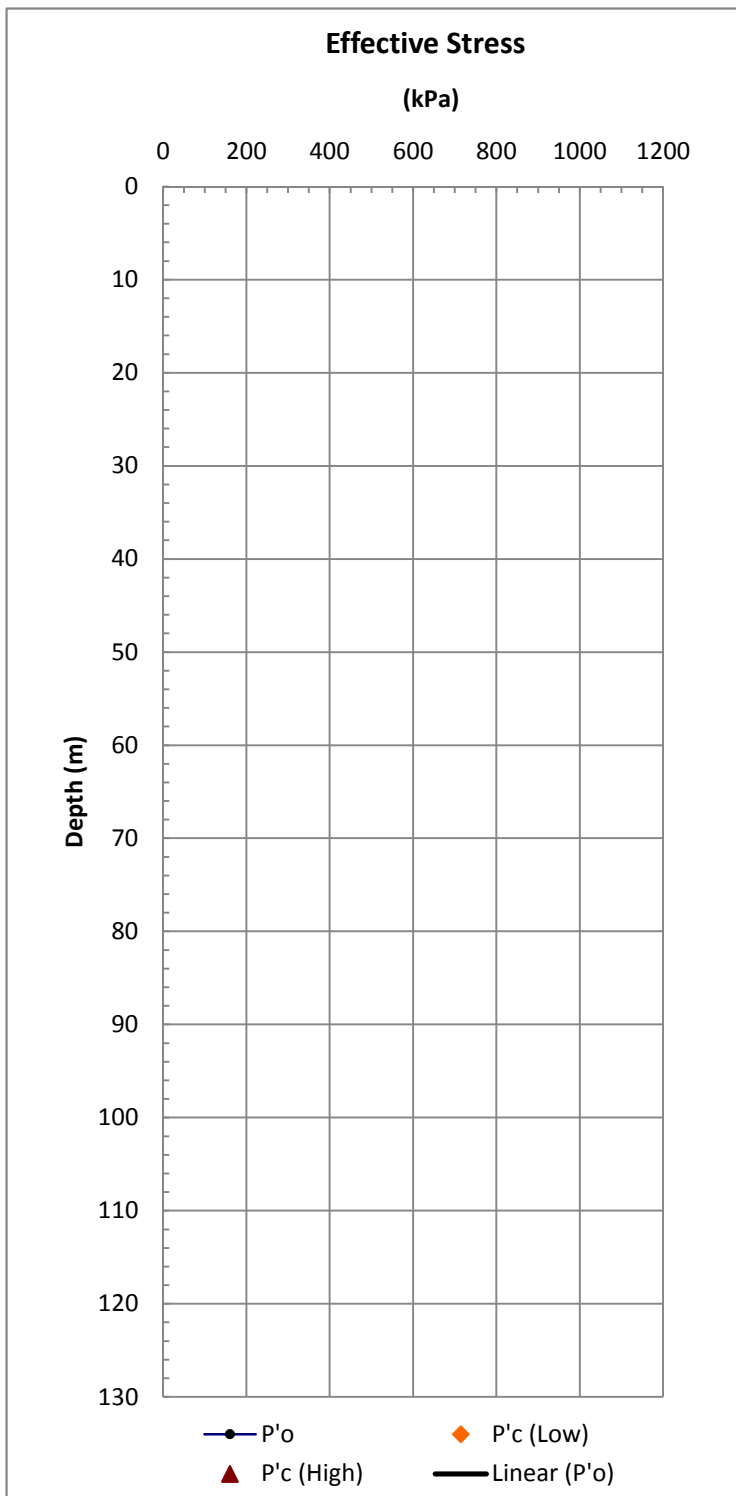
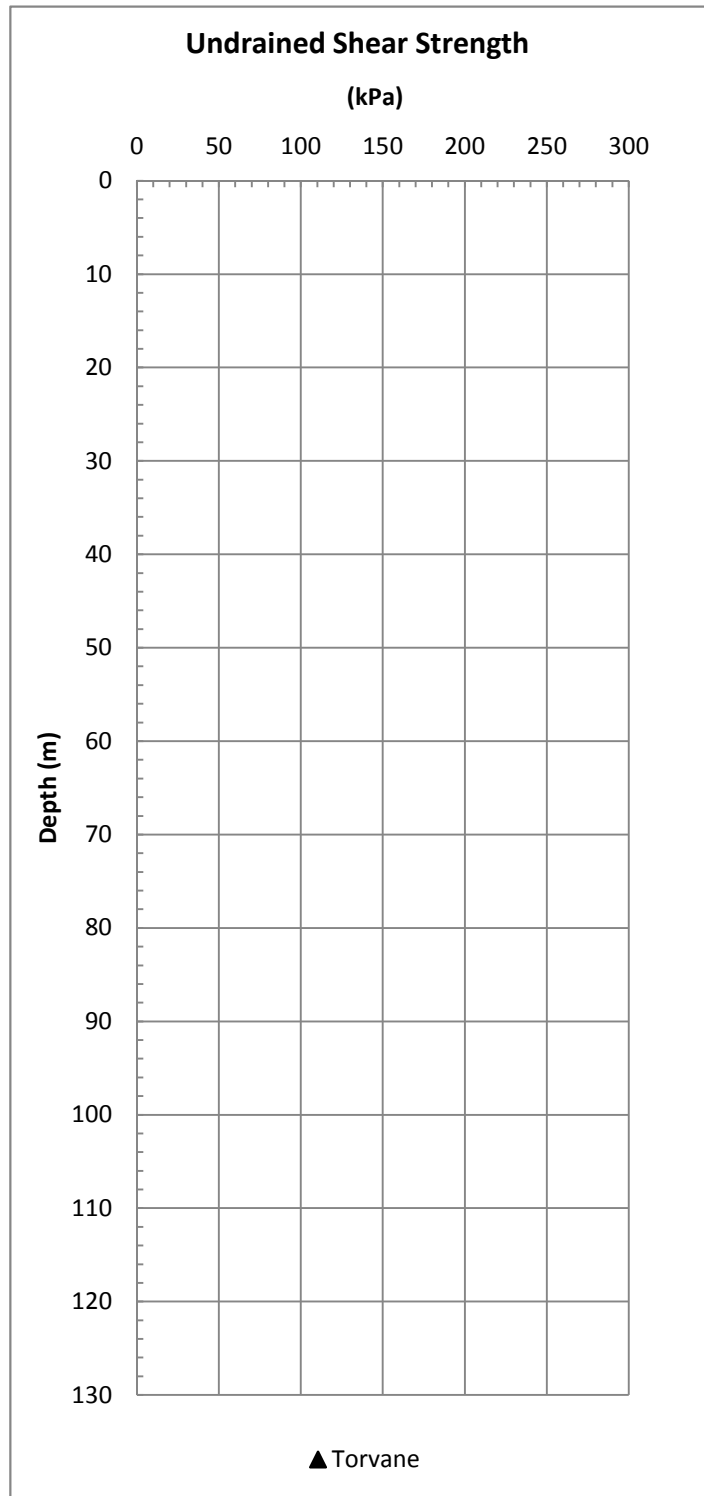
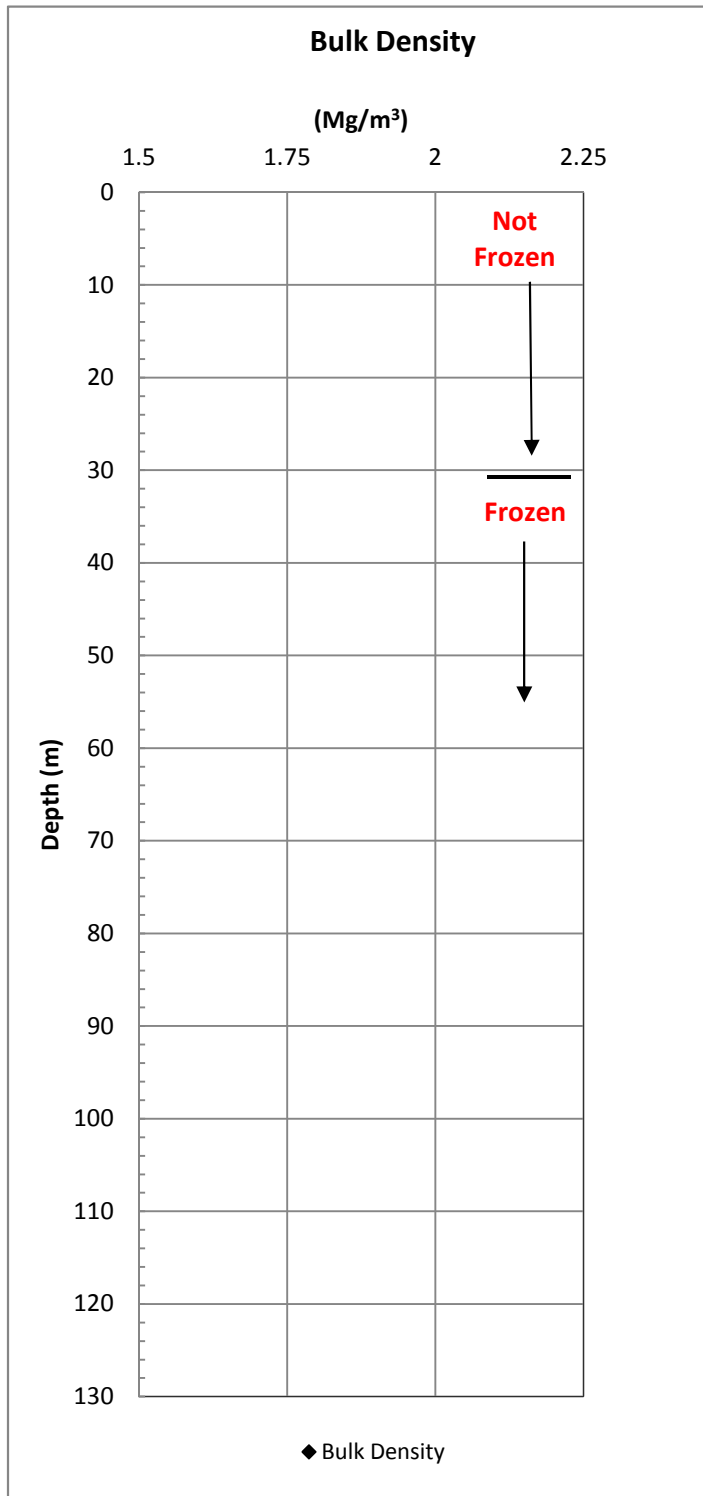


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Figure C.3

10033 Beaufort Data

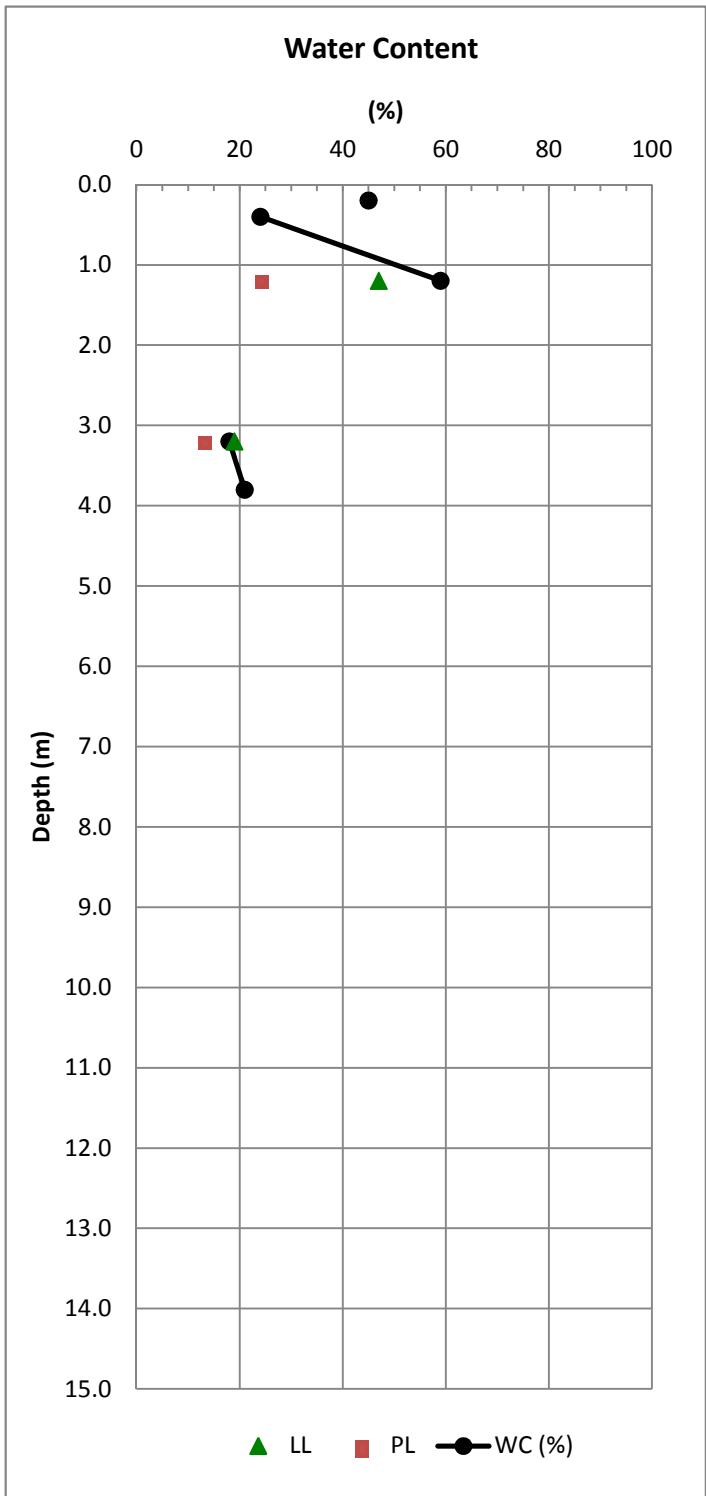
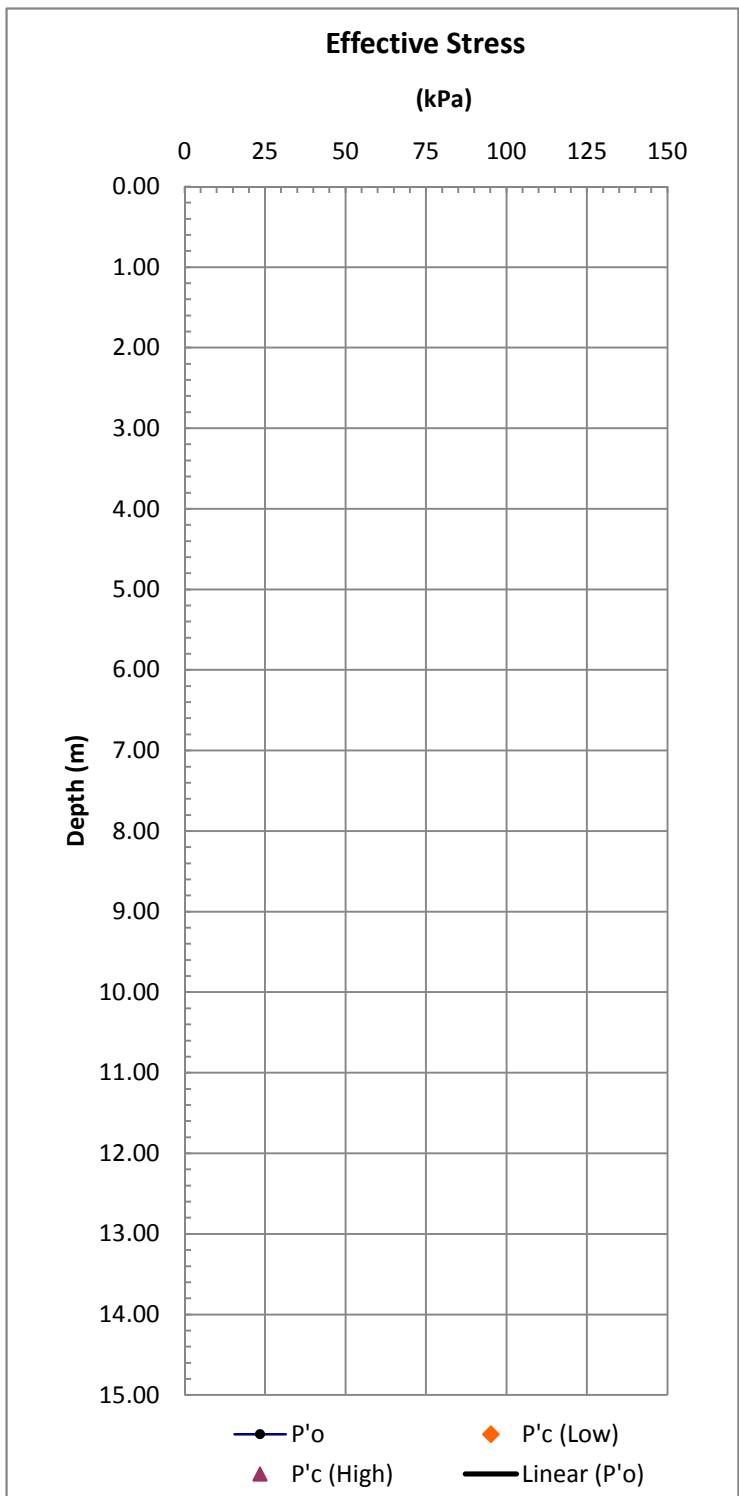
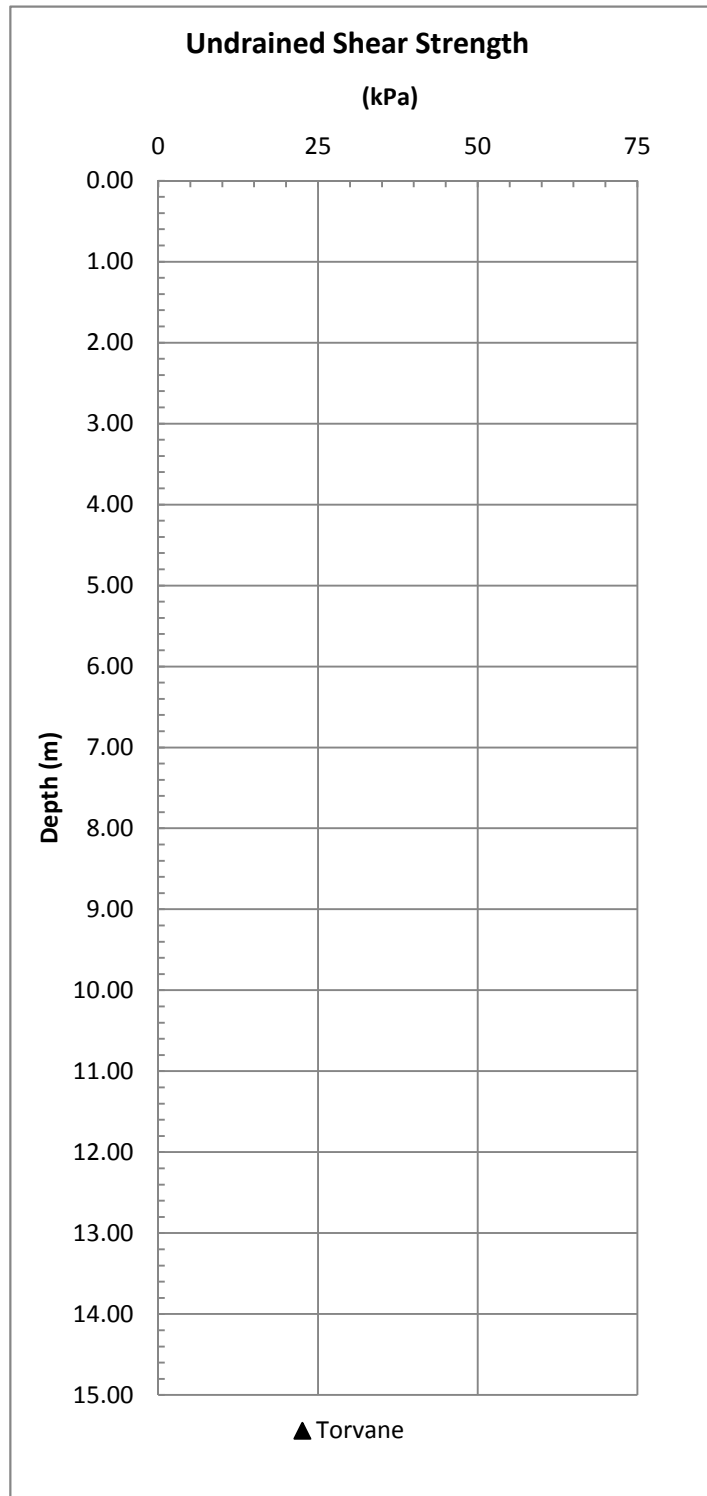
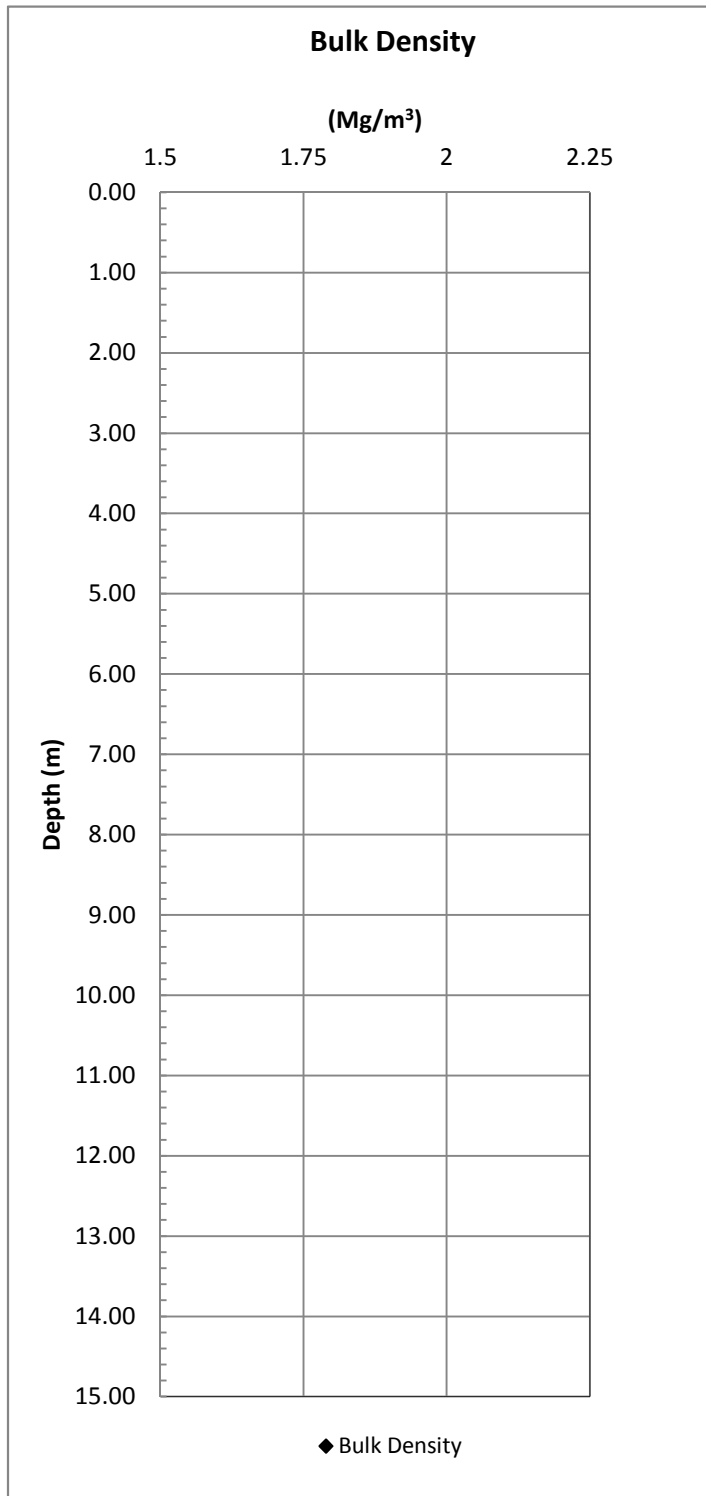


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Nerlerk B-Ner 3:6

Figure C.3

10033 Beaufort Data

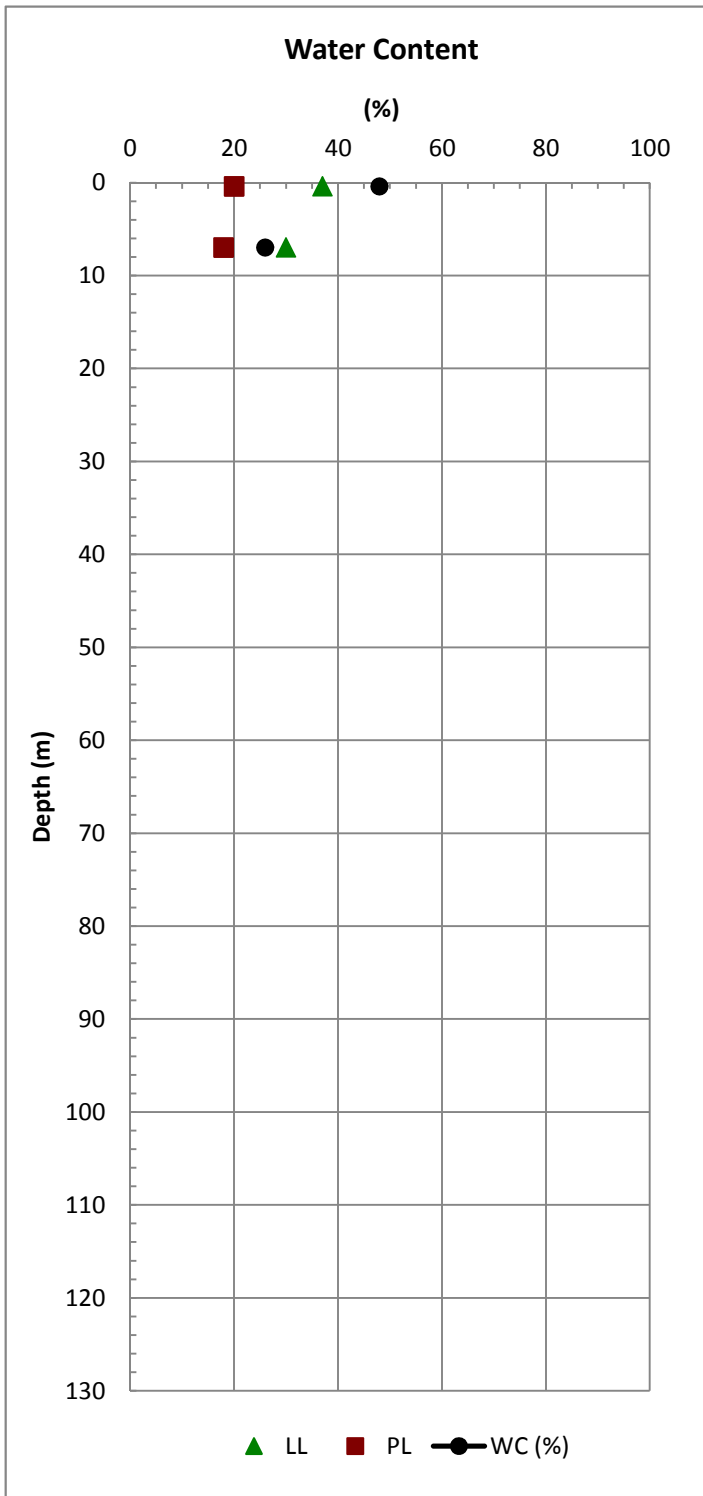
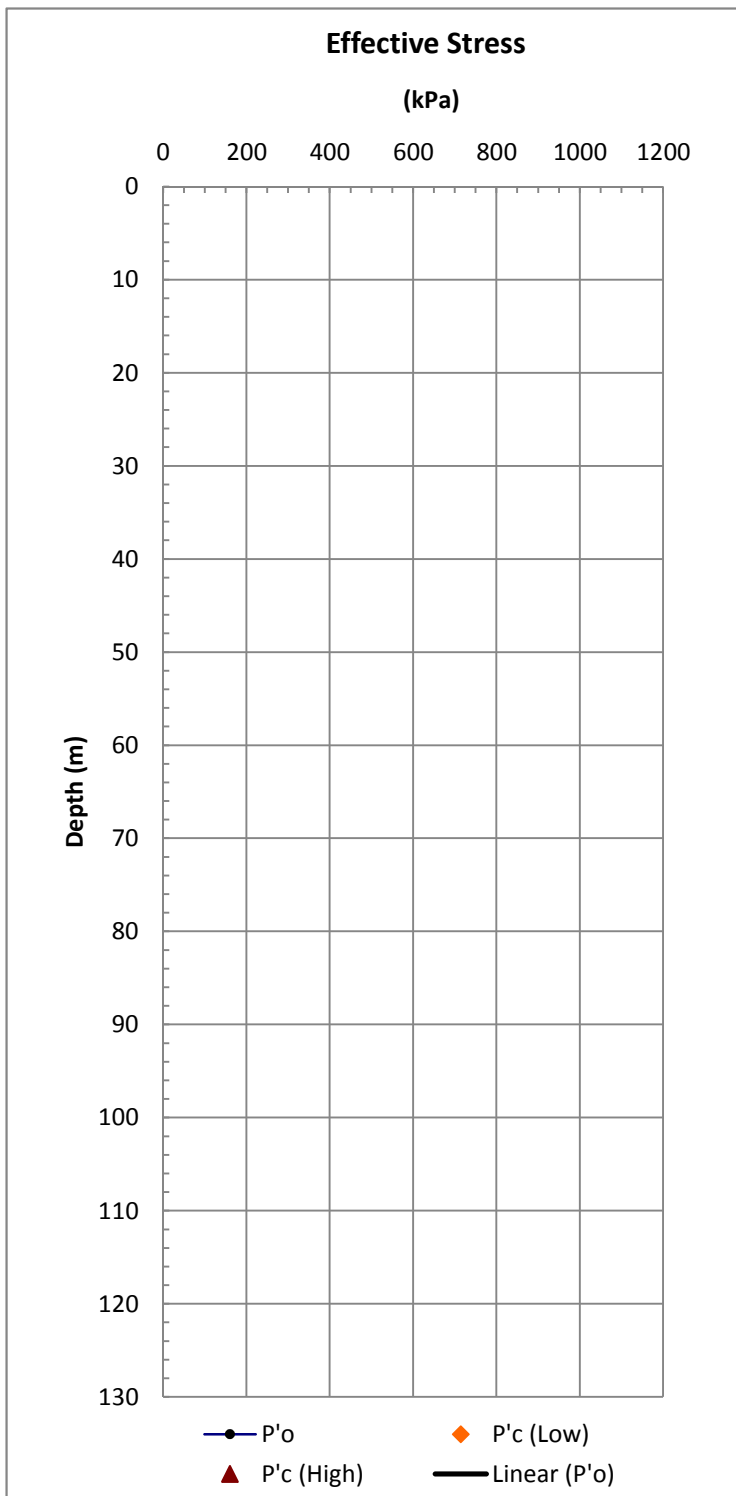
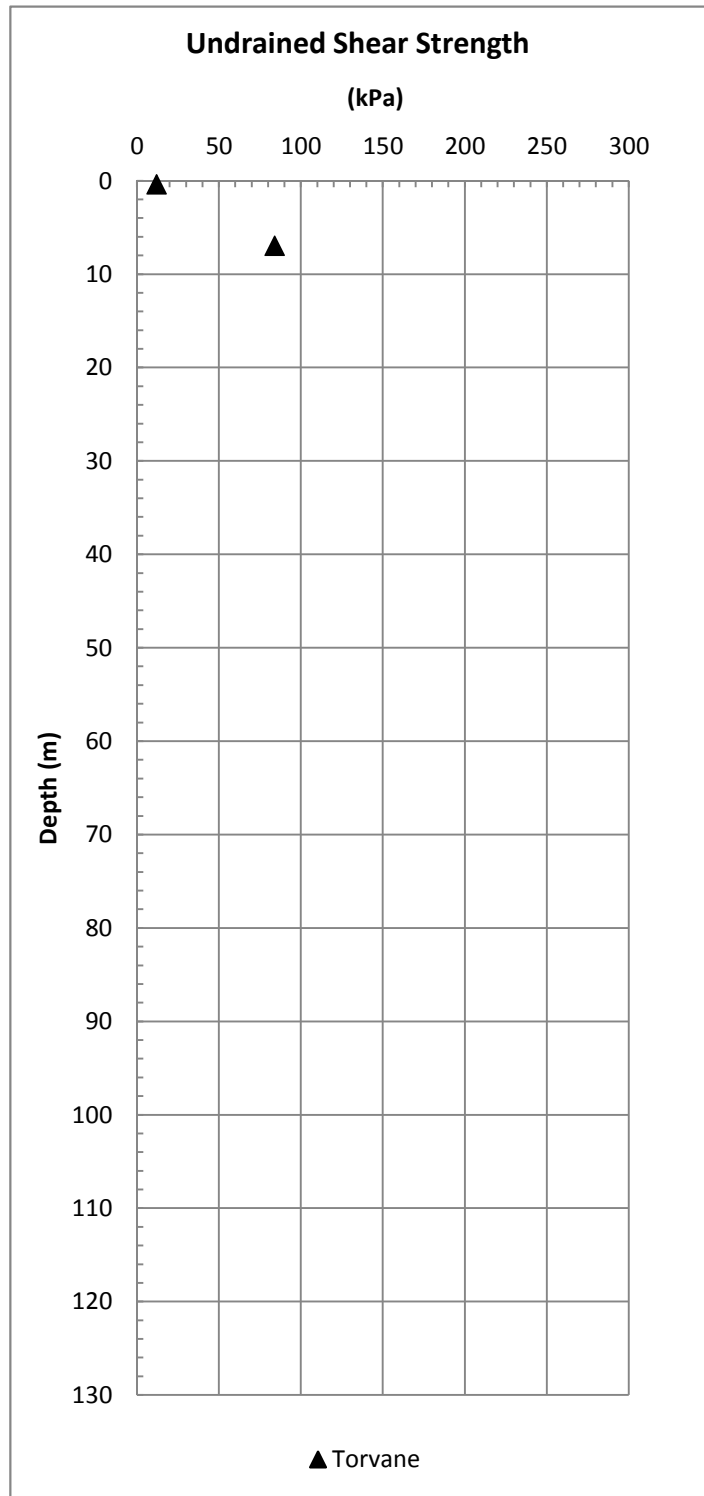
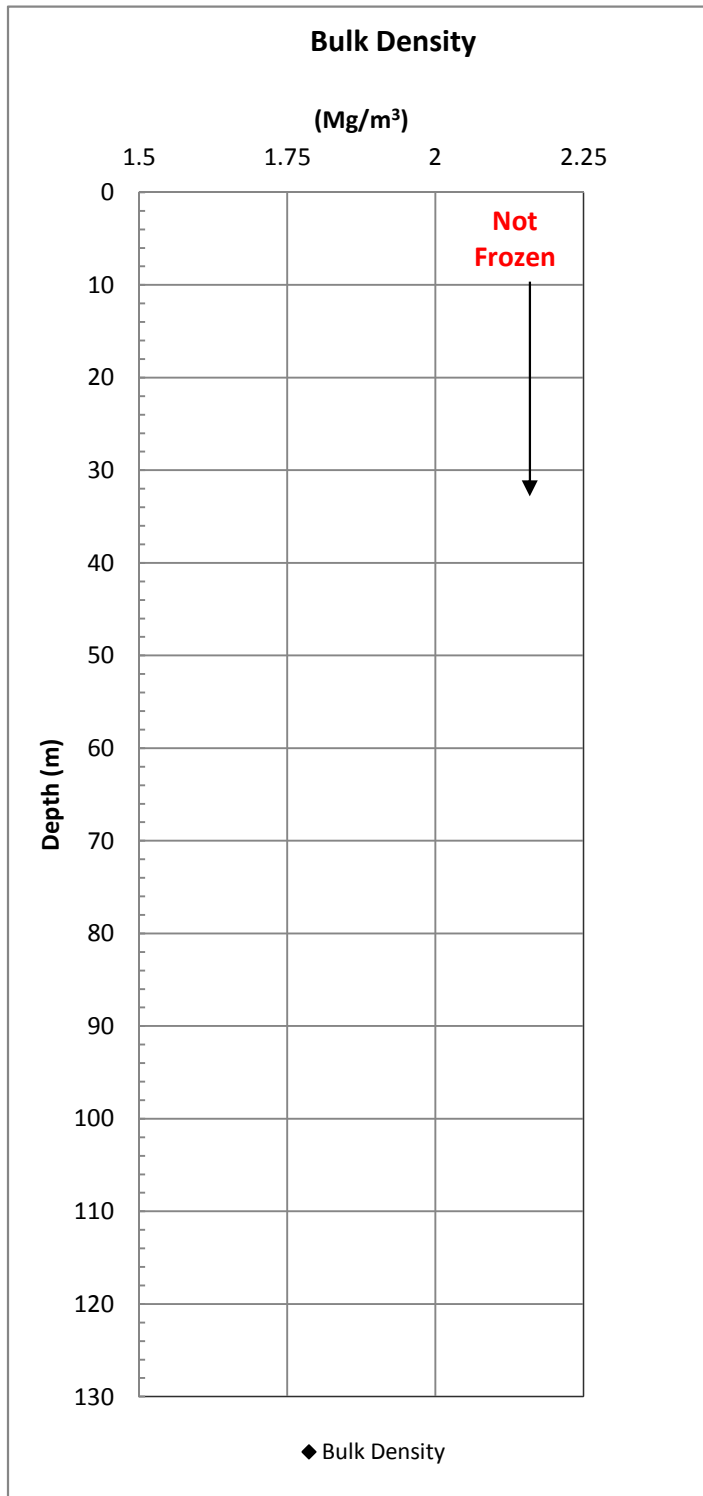


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Nerlerk B-Ner 3:6

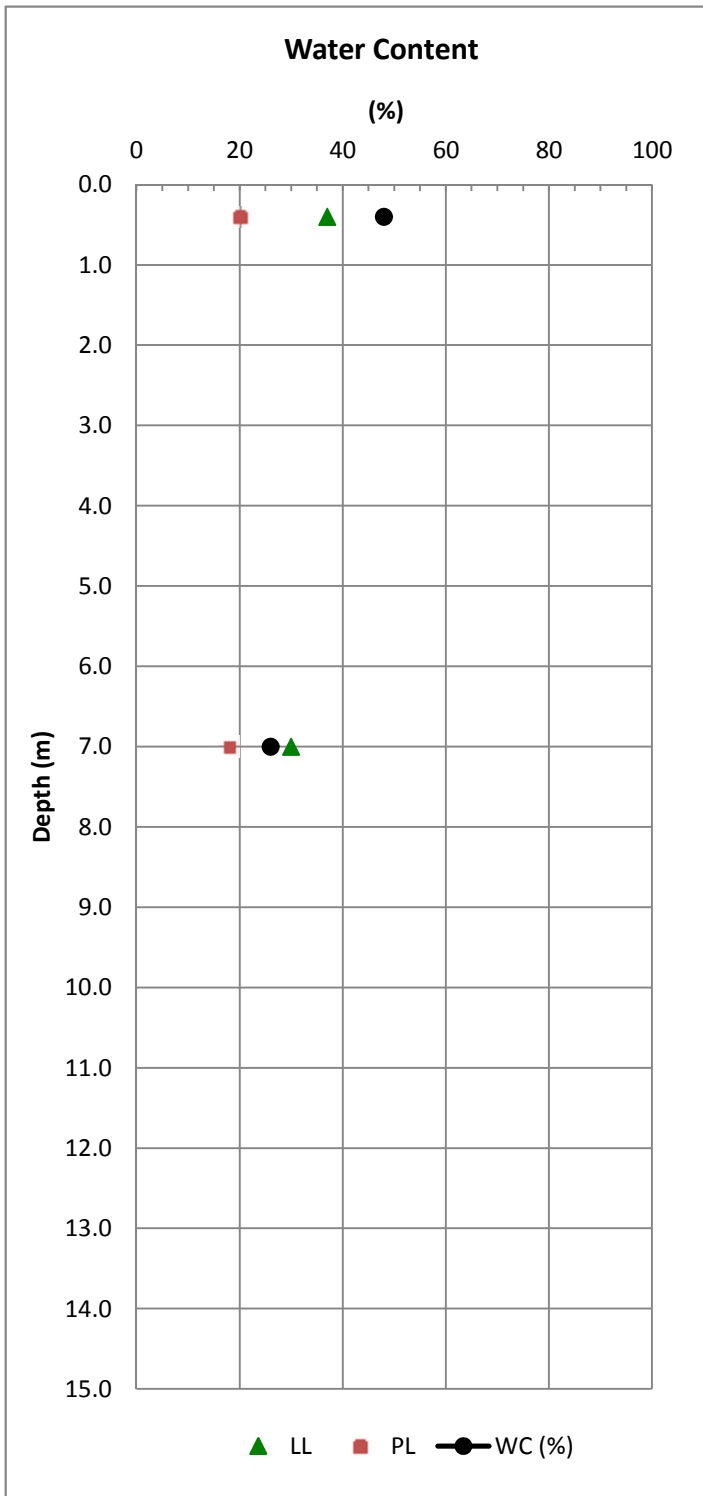
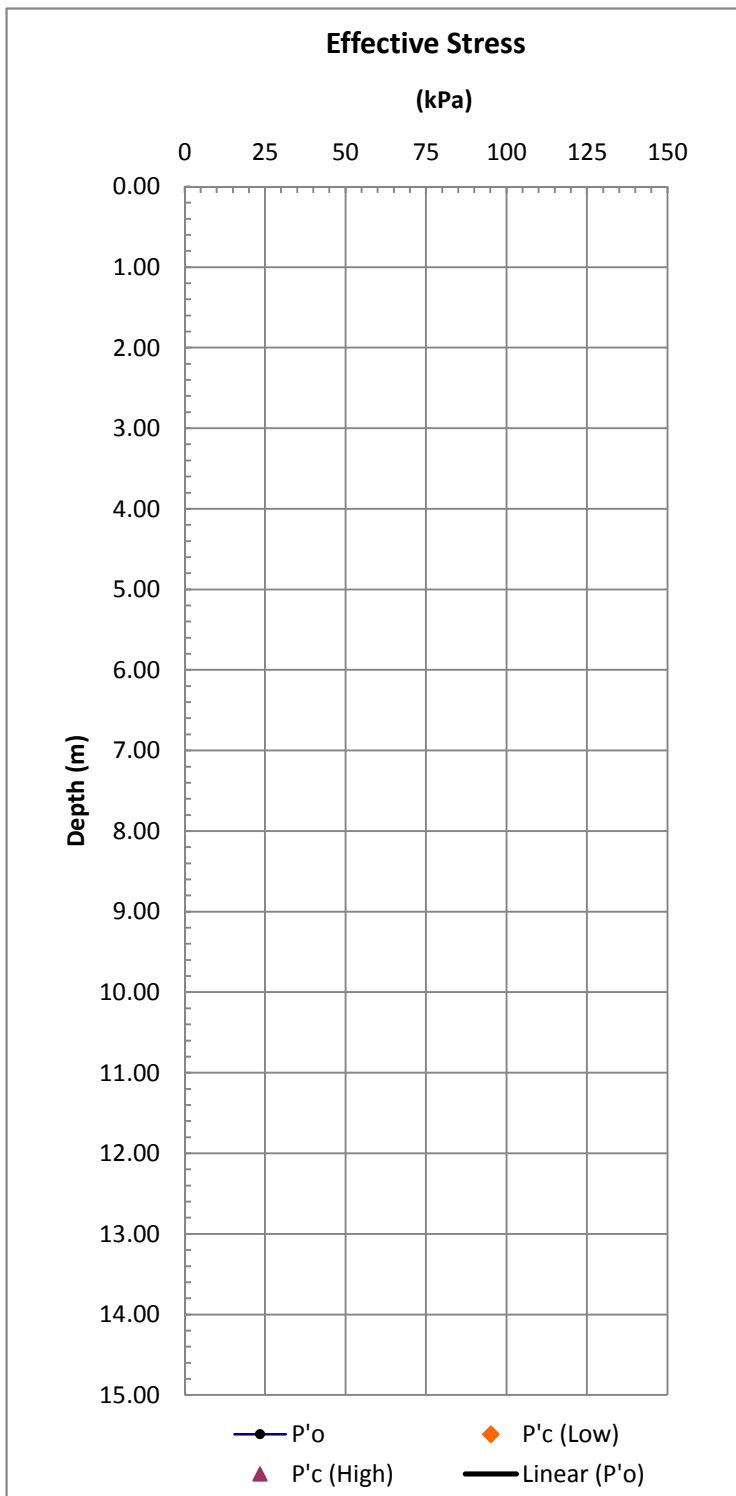
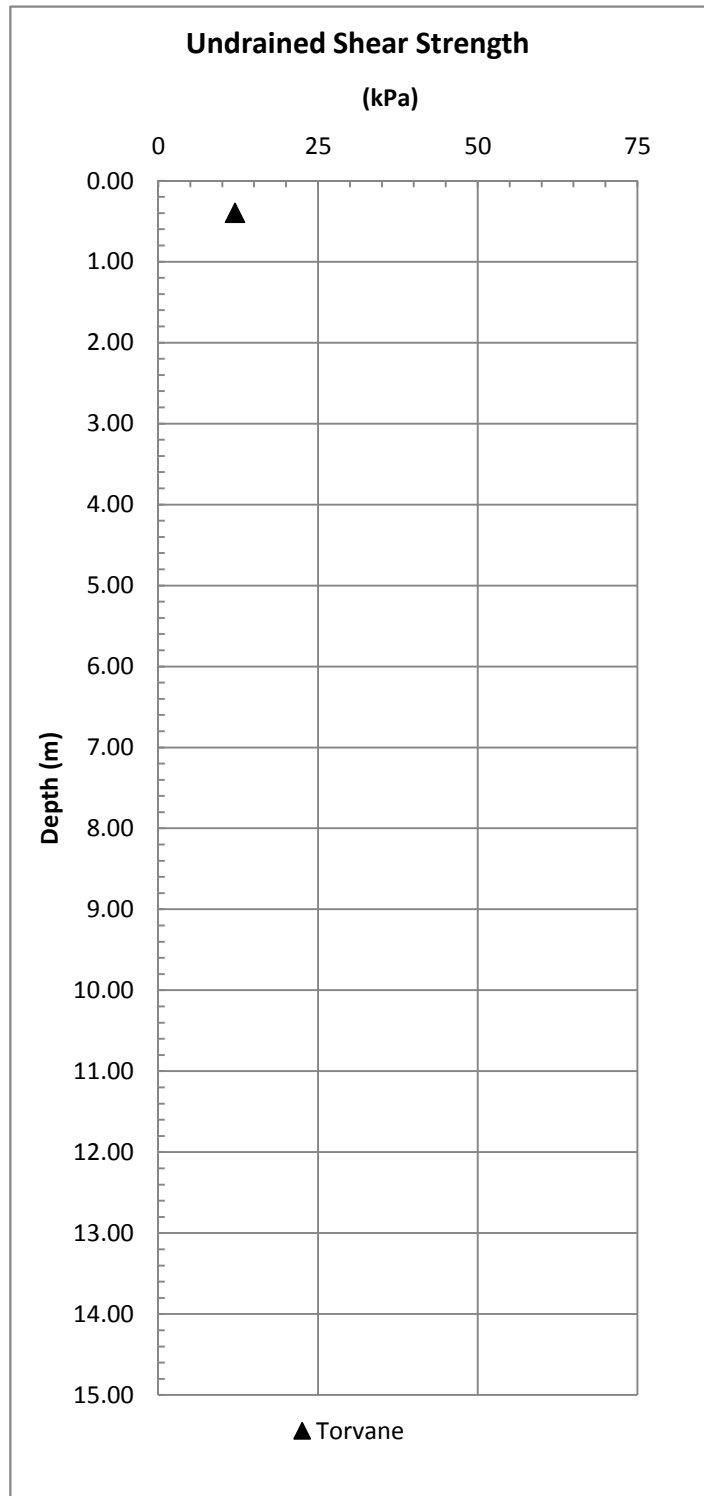
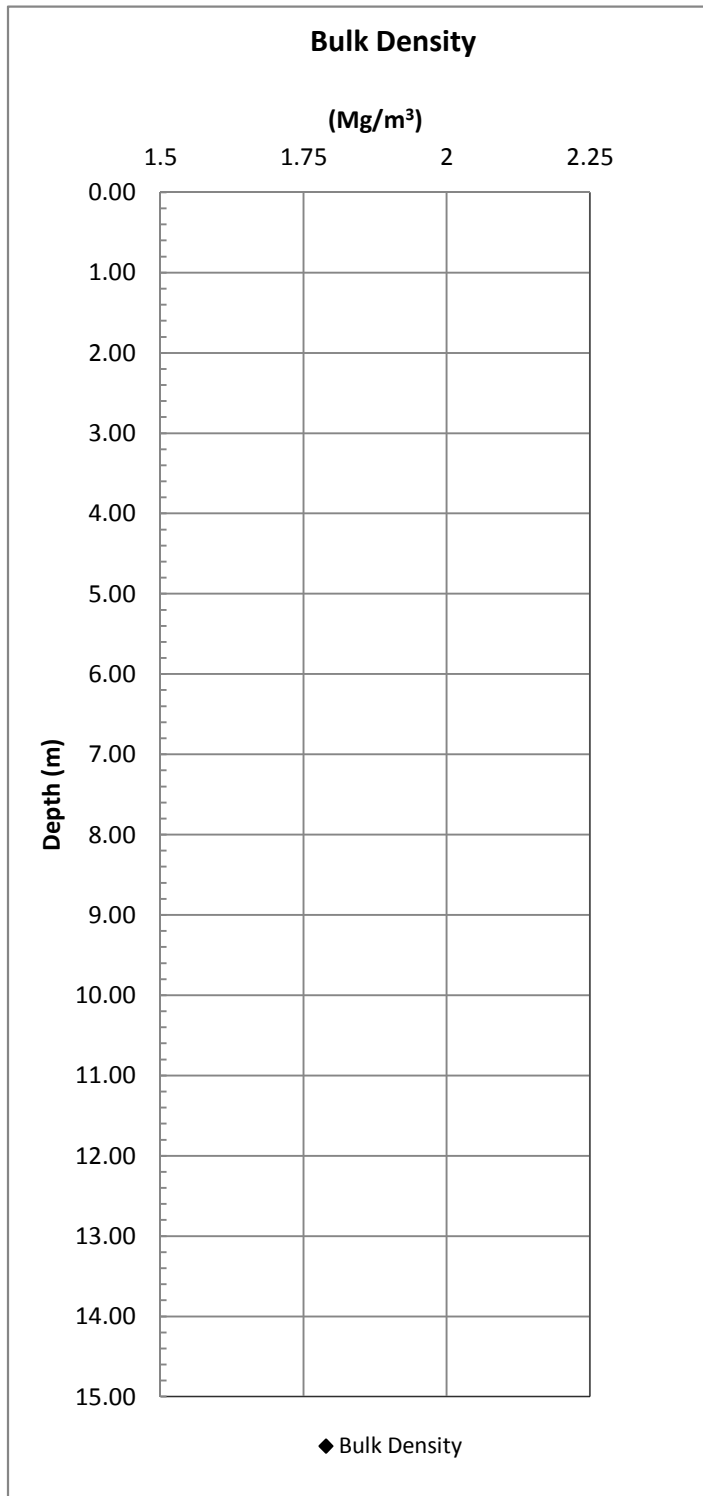
Figure C.3

10033 Beaufort Data



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Nerlerk B-Ner 3:7
Figure C.3
 10033 Beaufort Data

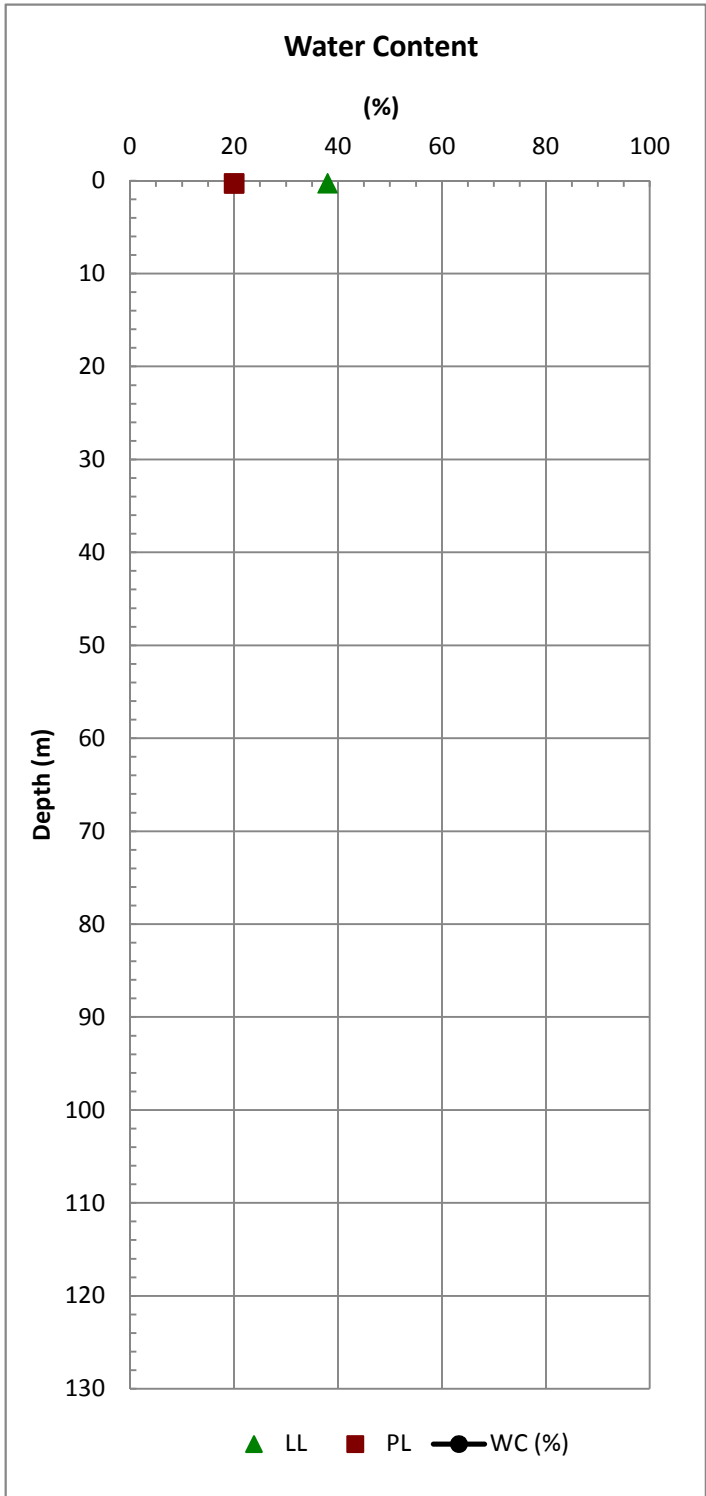
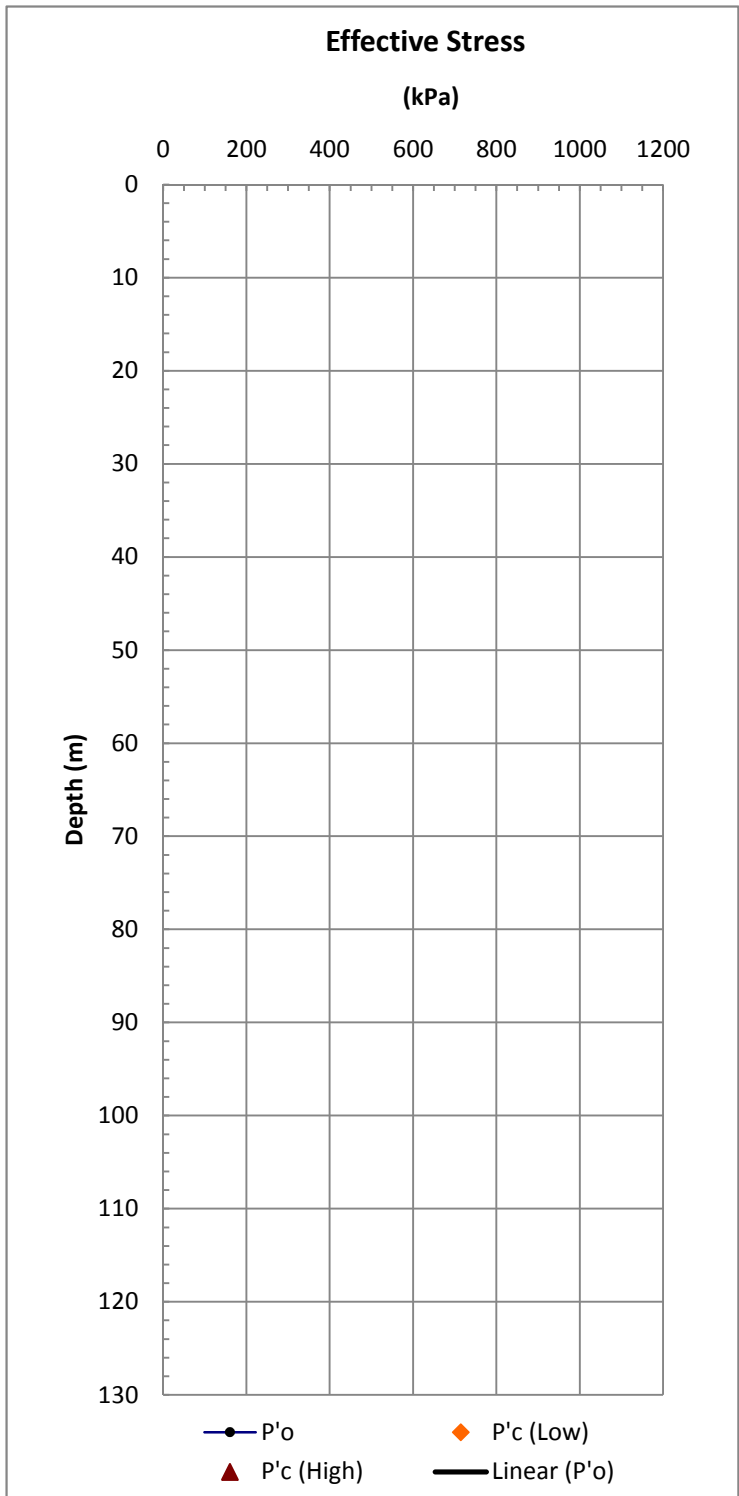
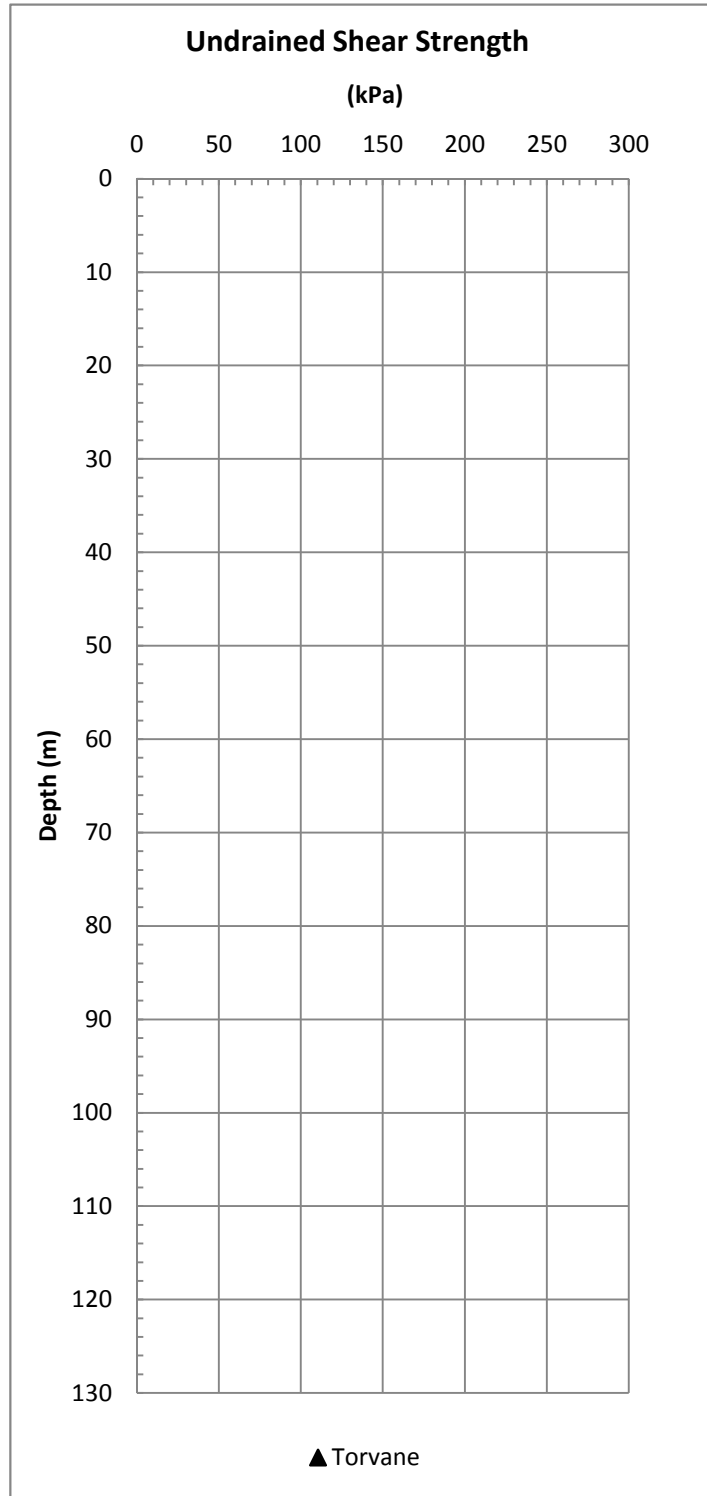
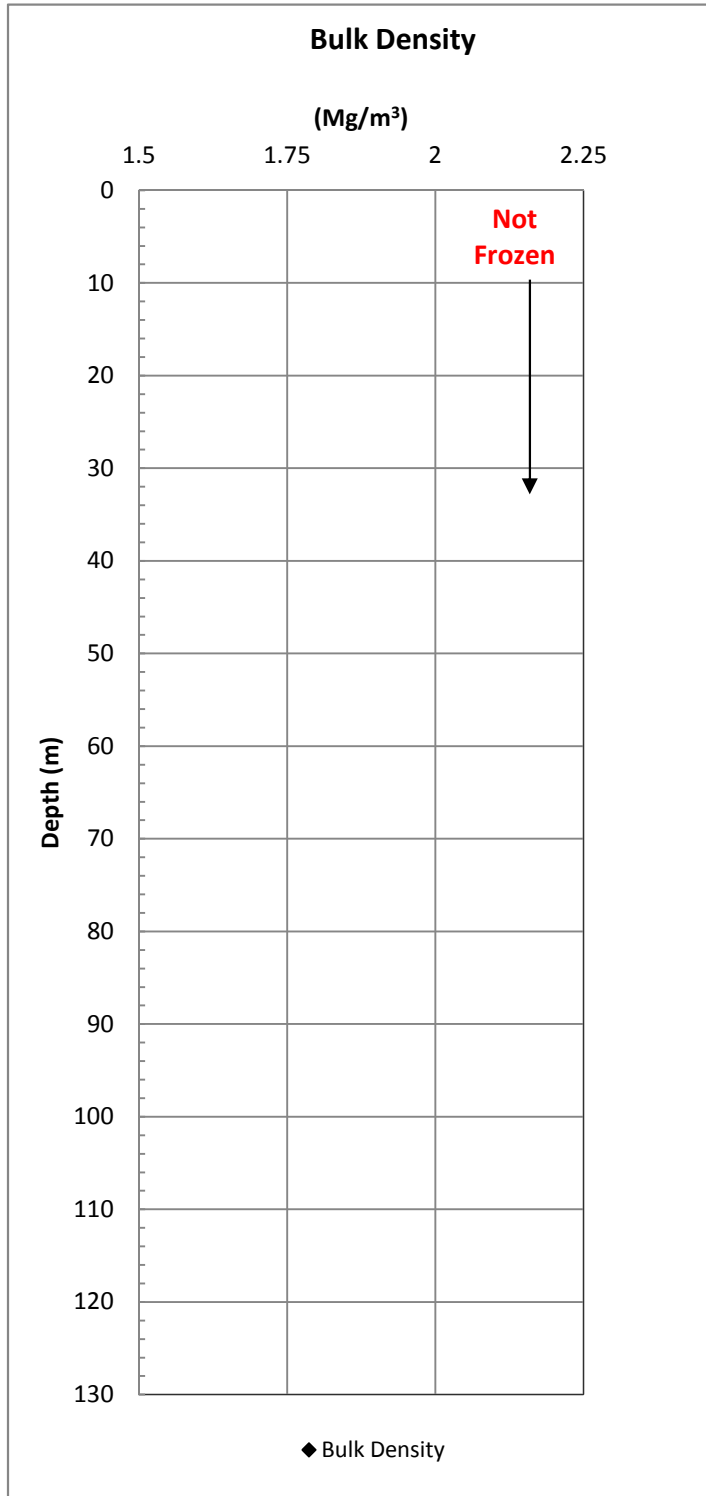


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Nerlerk B-Ner 3:7

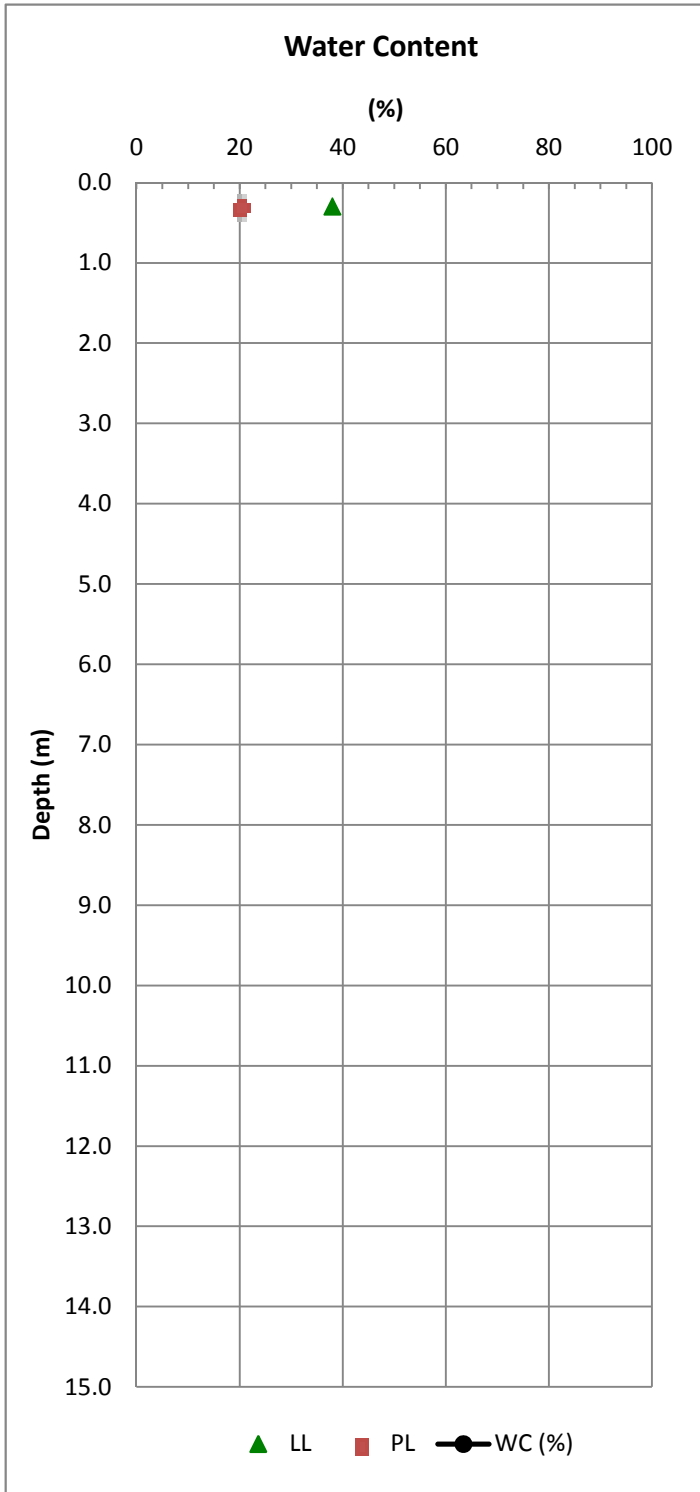
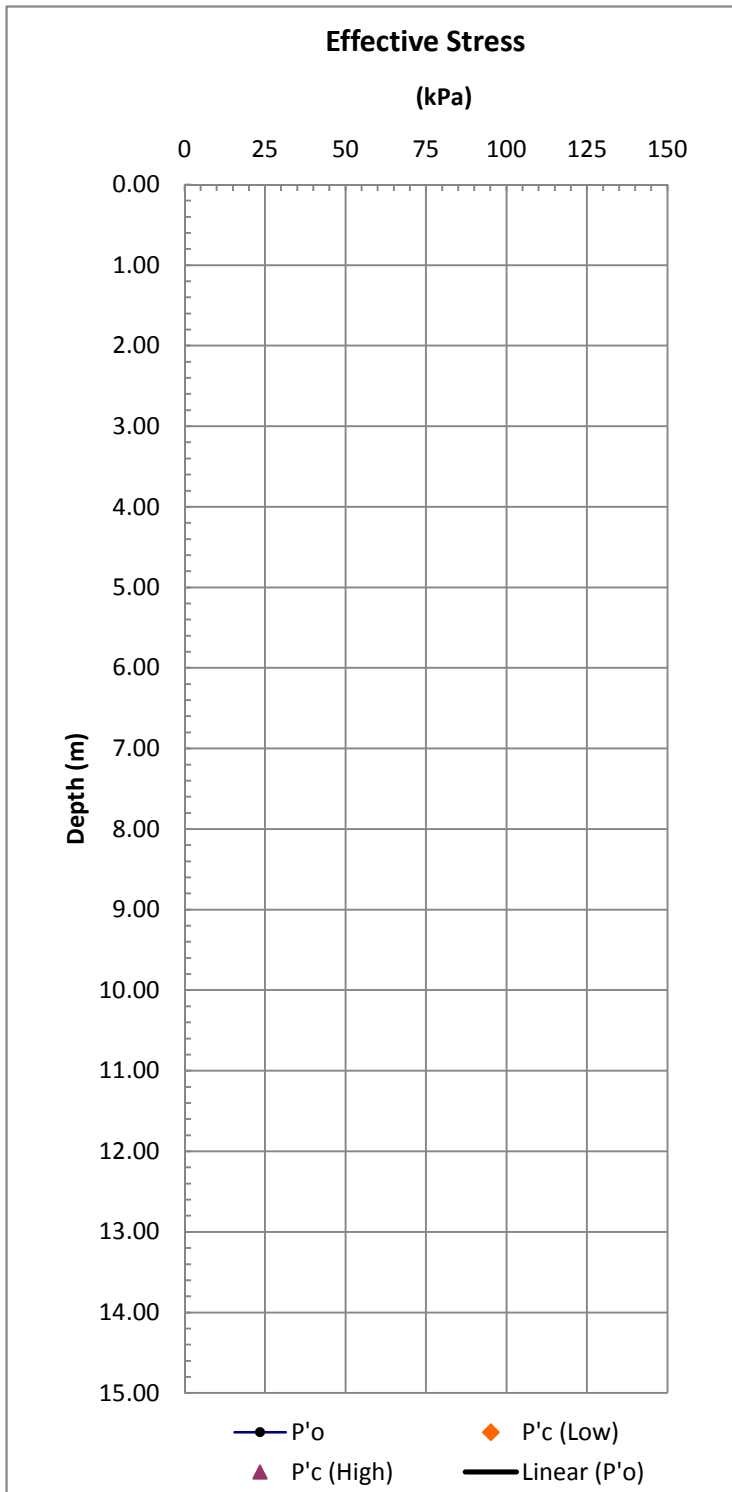
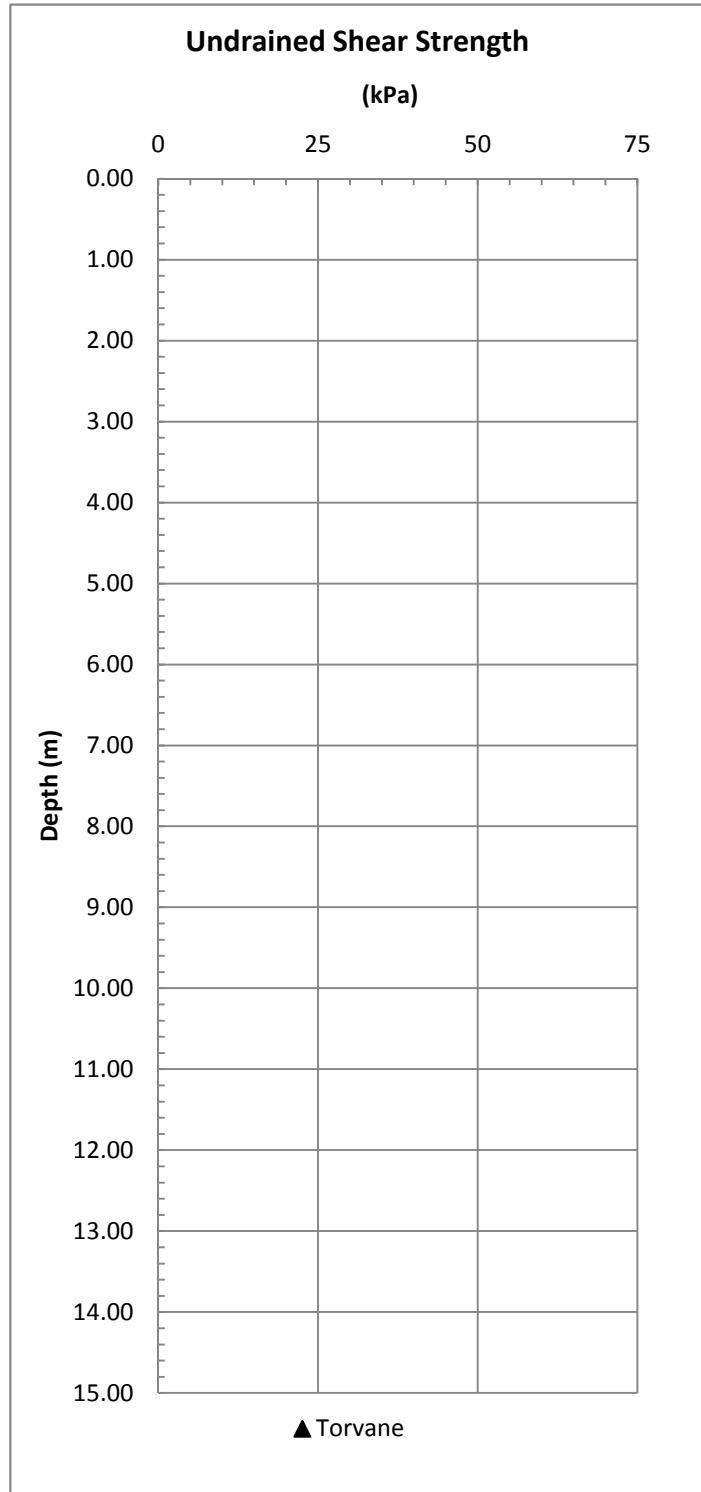
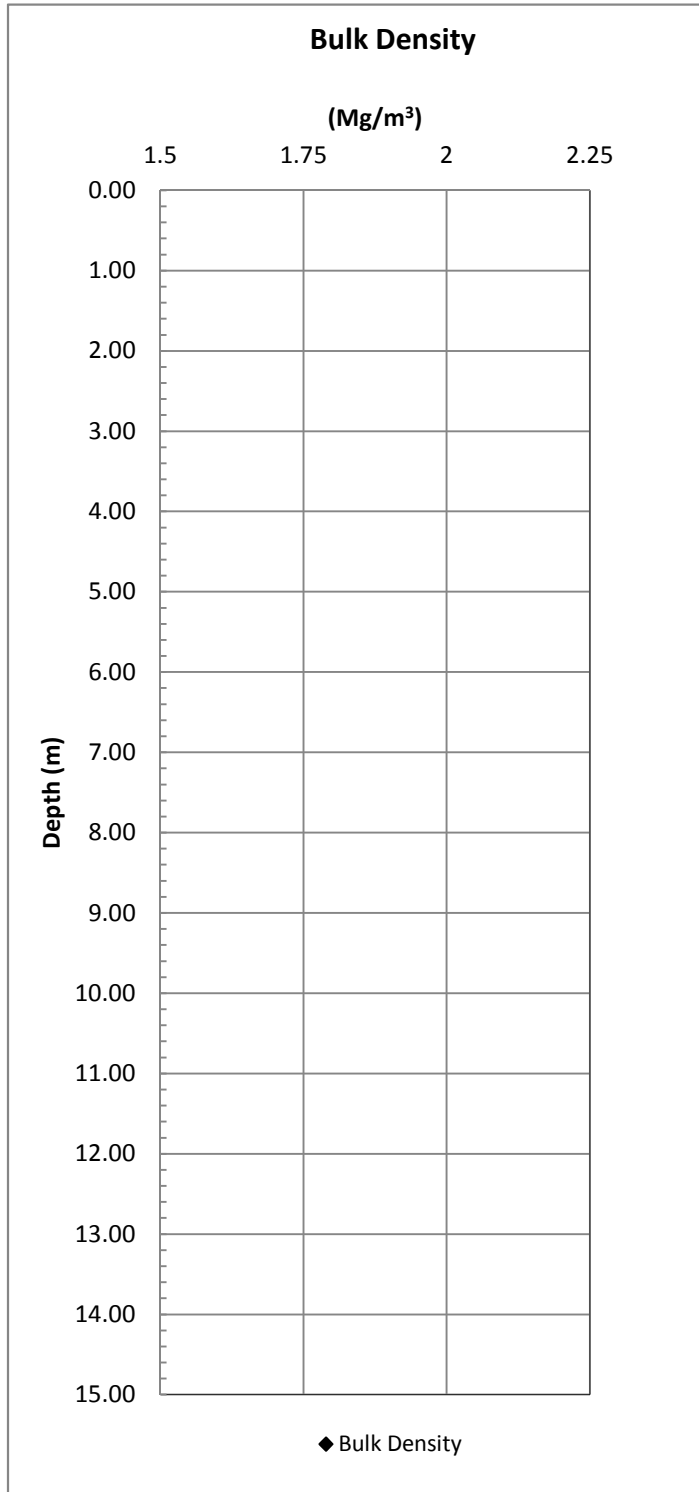
Figure C.3

10033 Beaufort Data



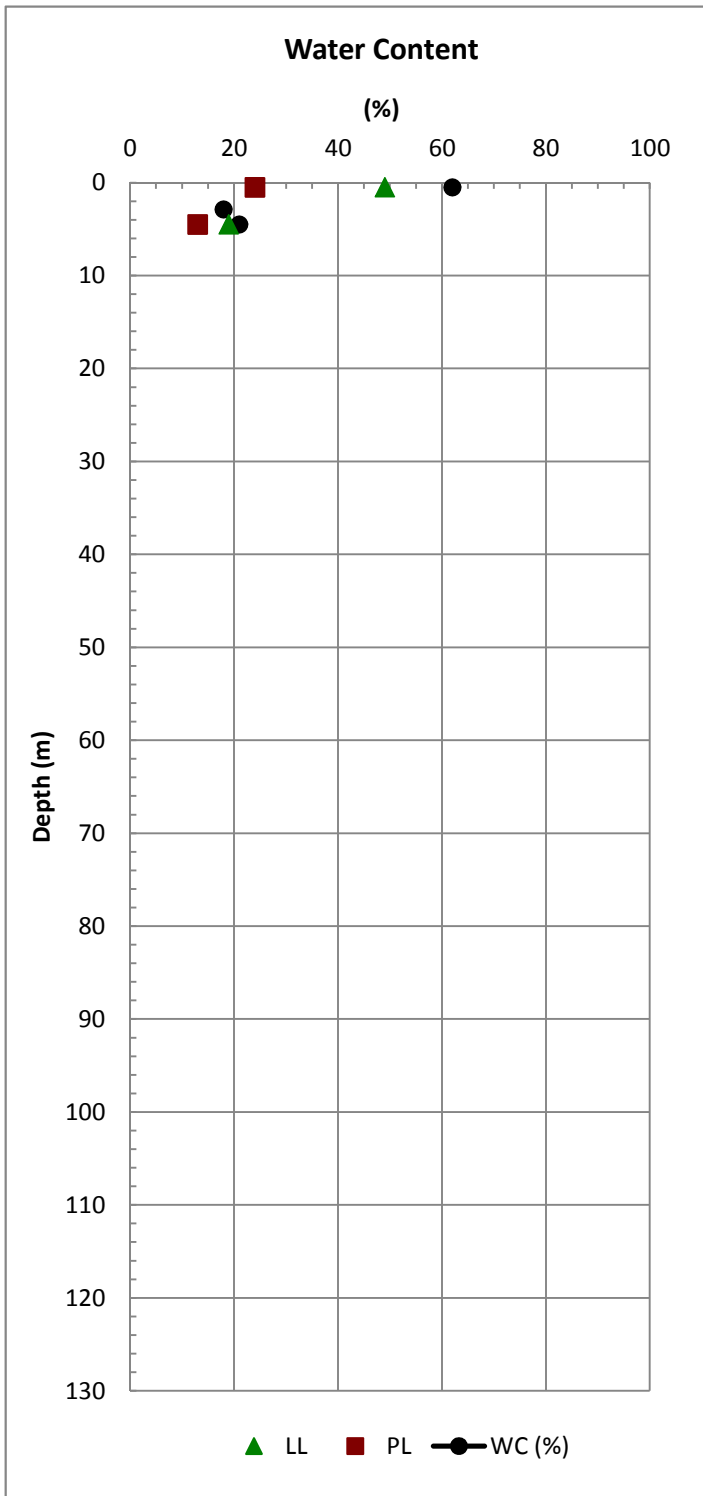
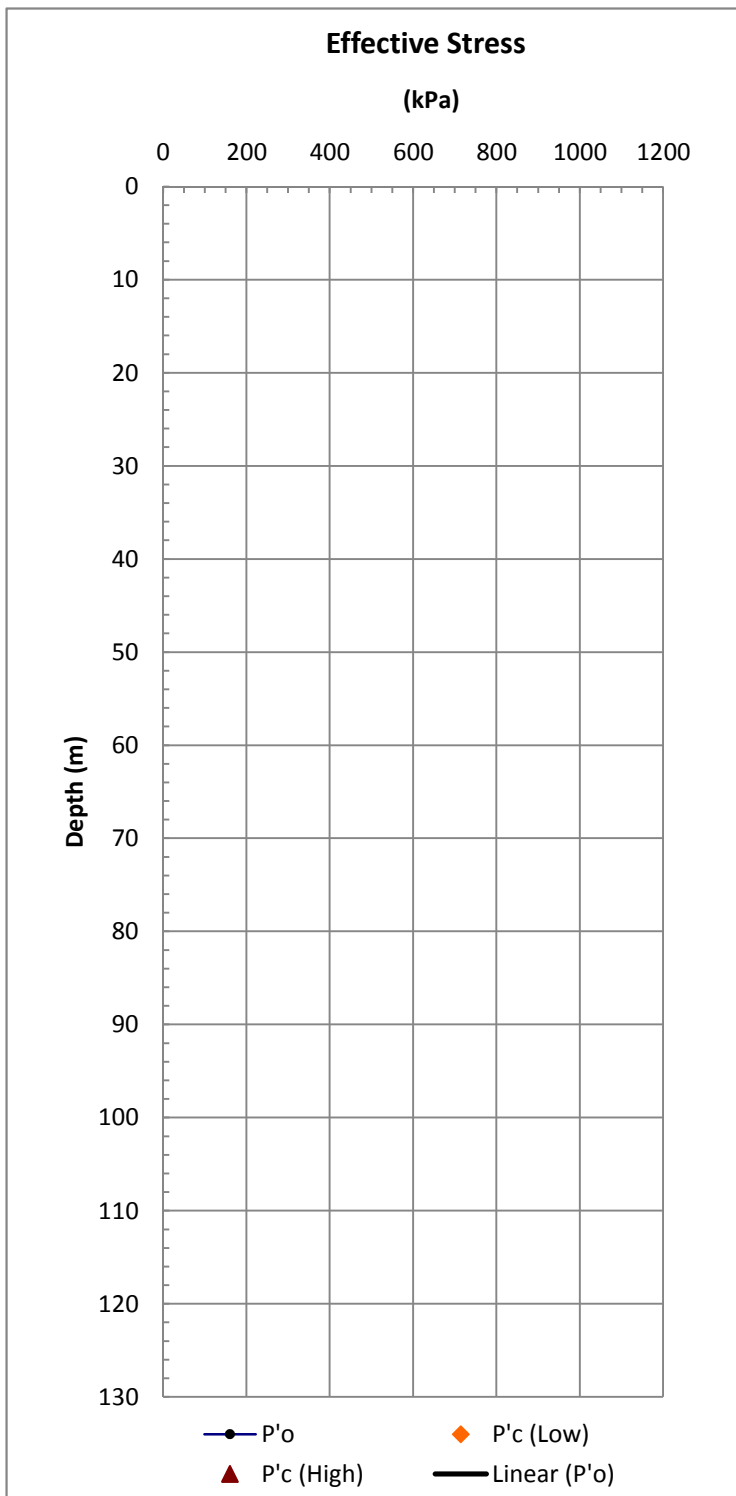
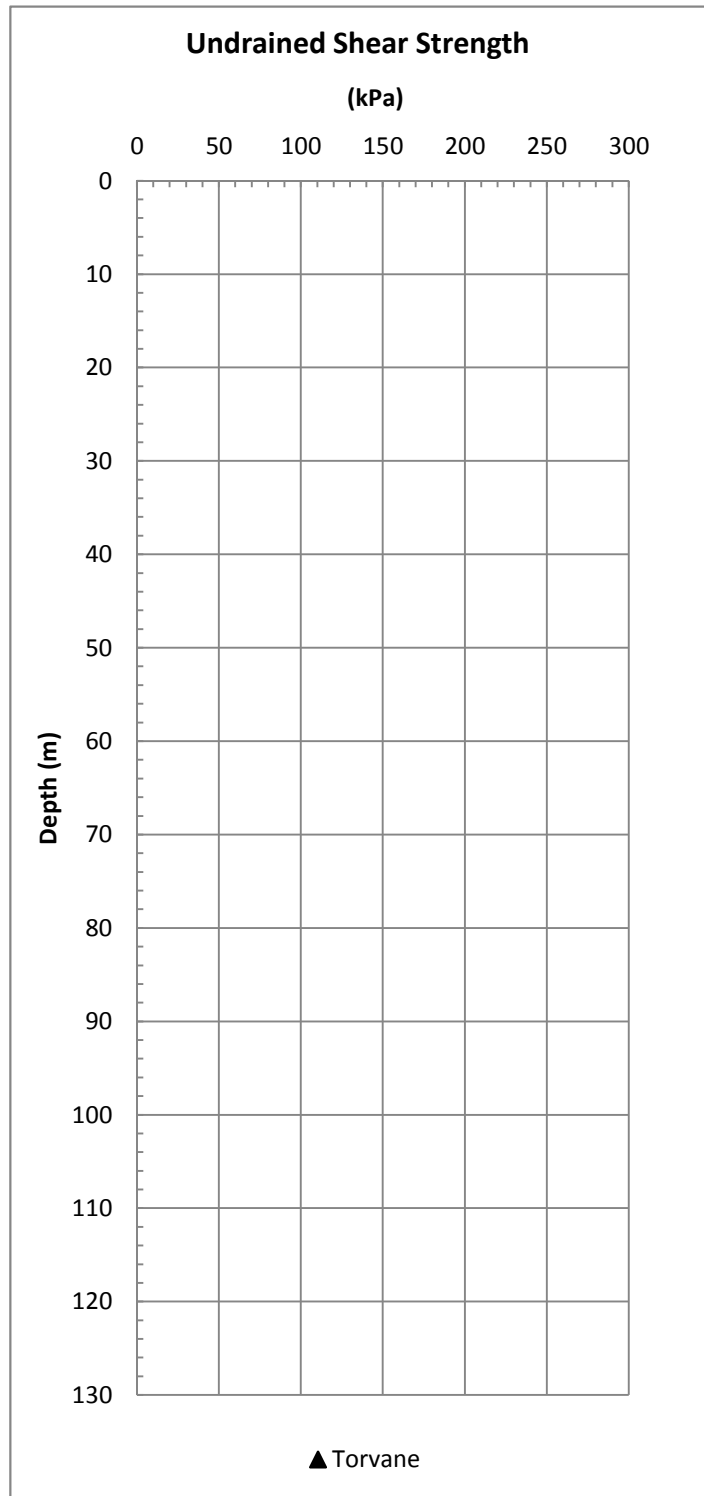
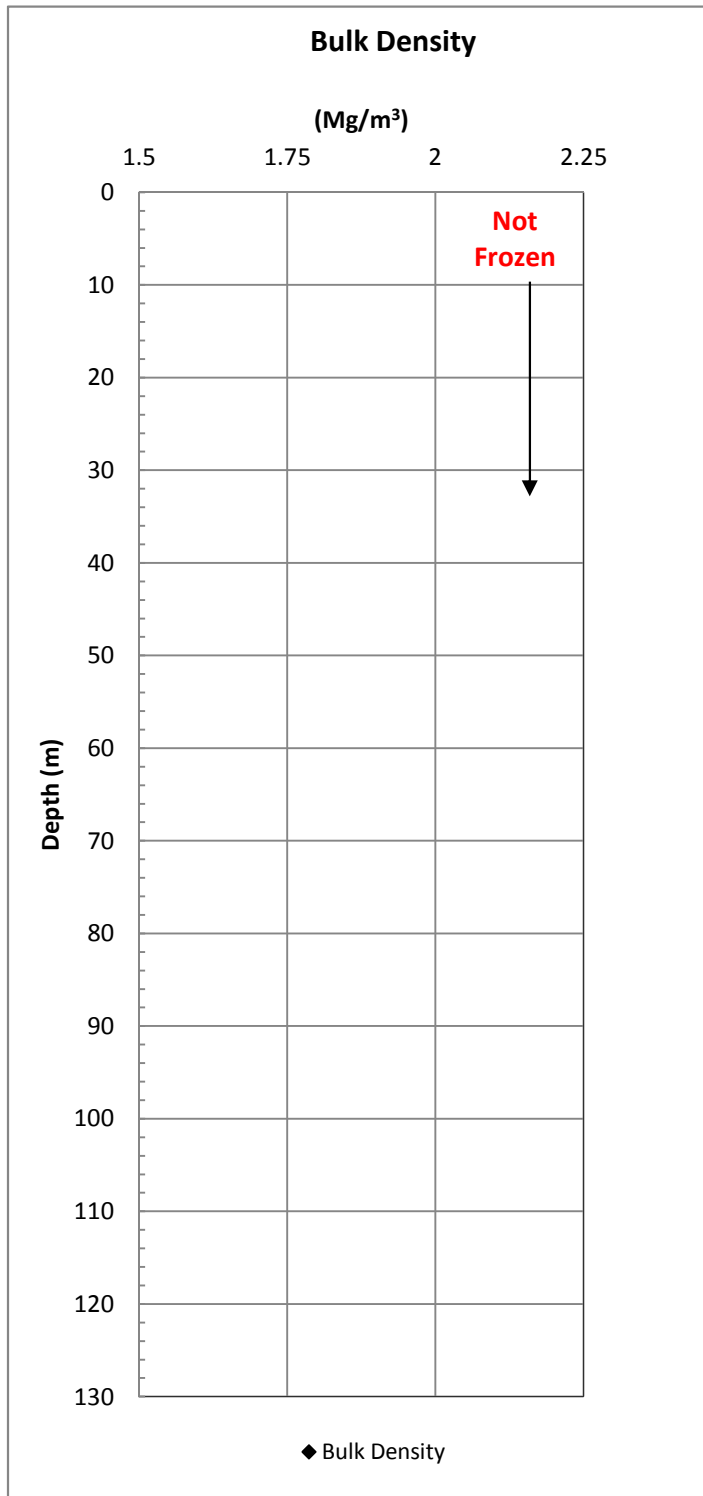
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Nerlerk B-Ner 3:8
Figure C.3
 10033 Beaufort Data



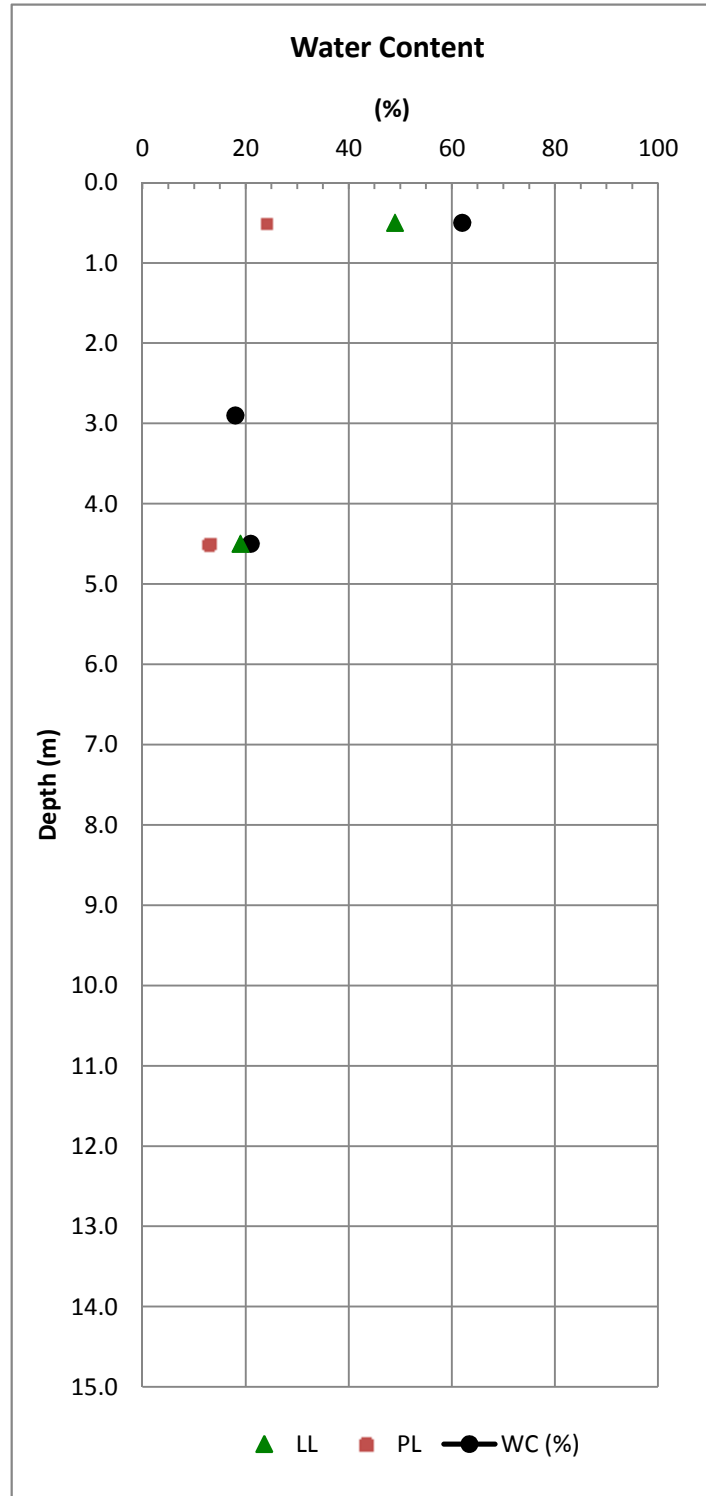
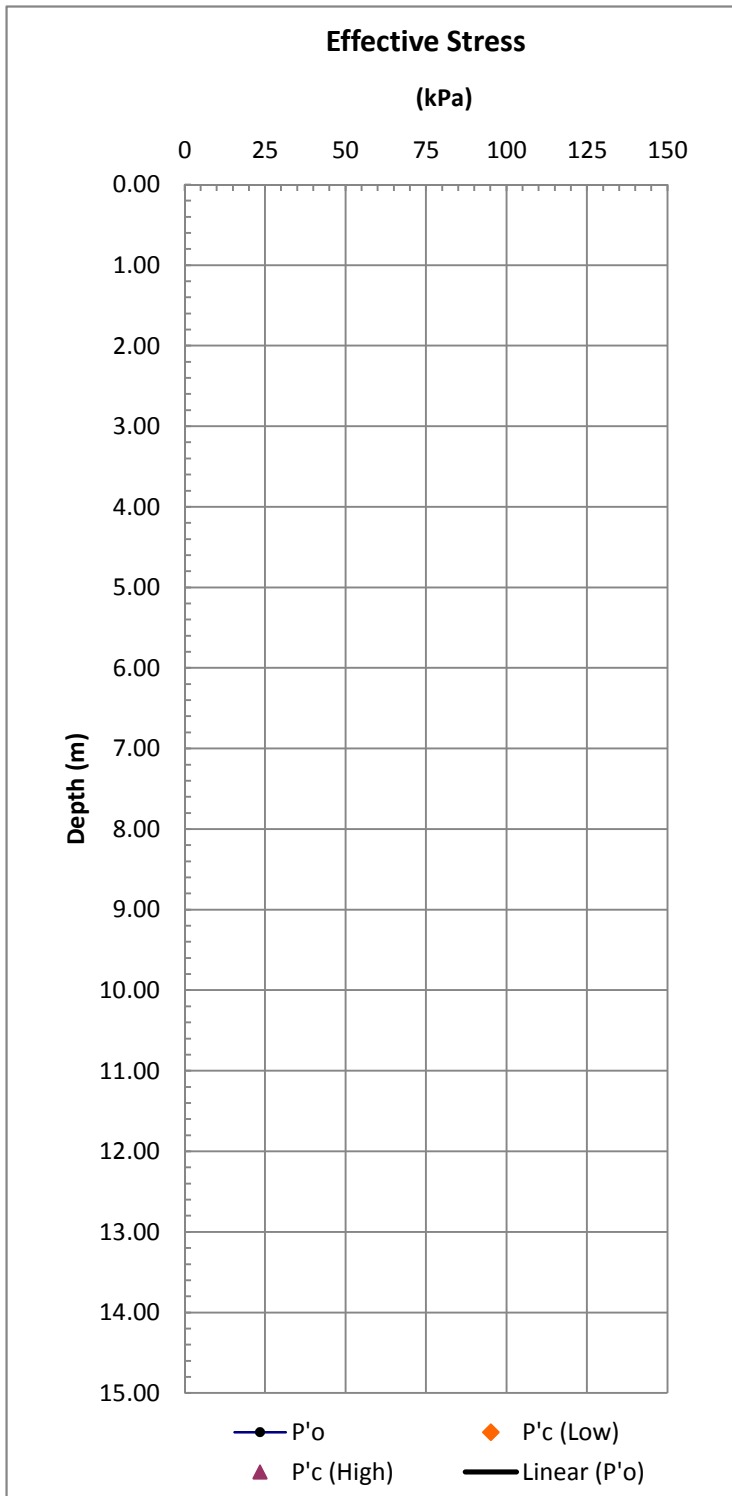
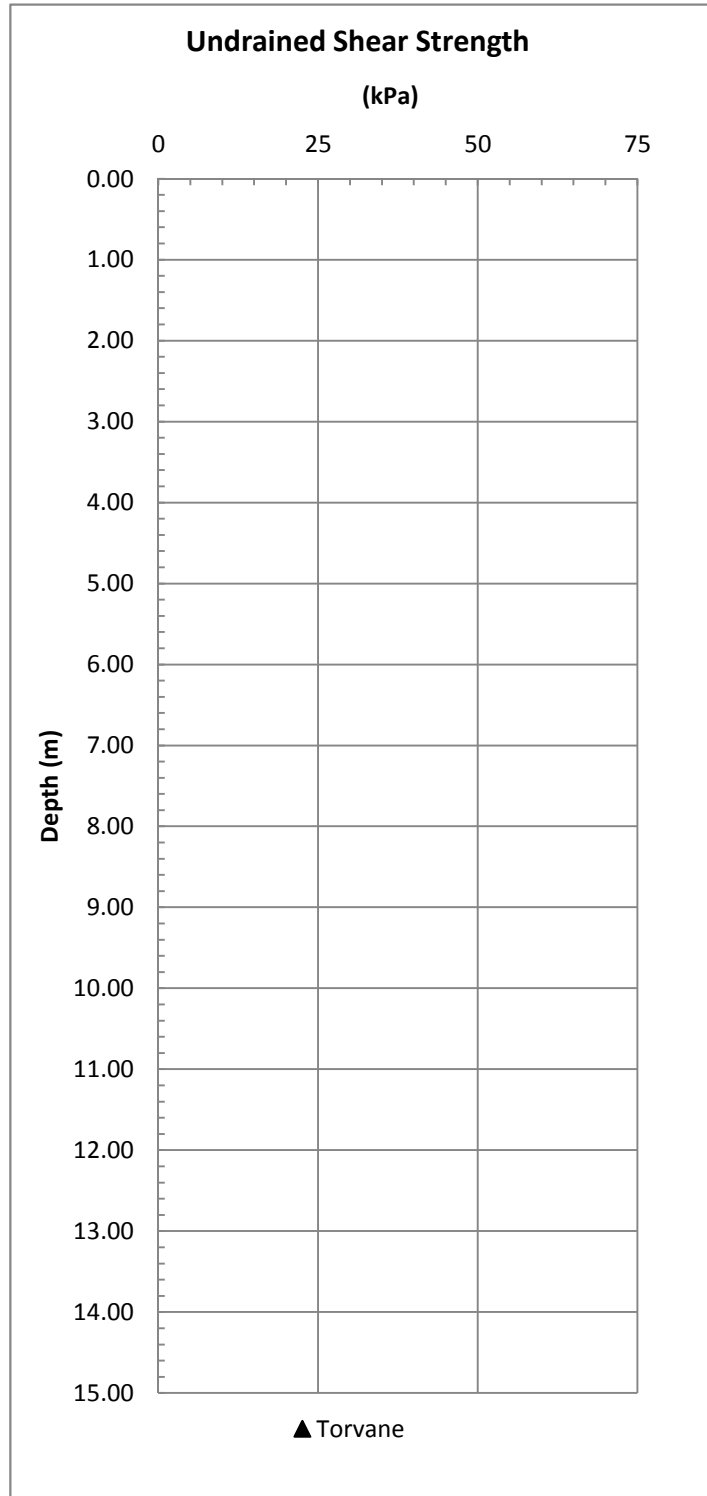
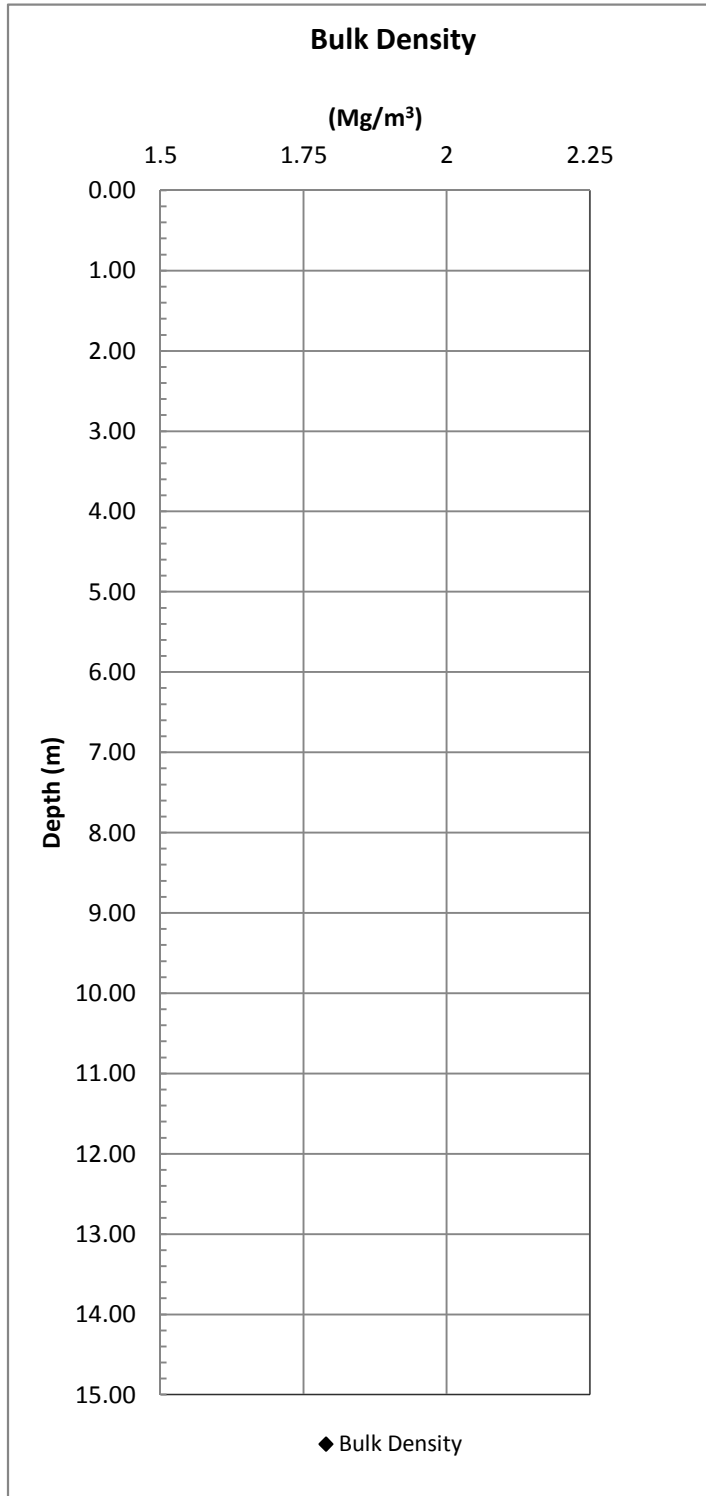
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Nerlerk B-Ner 3:8
Figure C.3
 10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

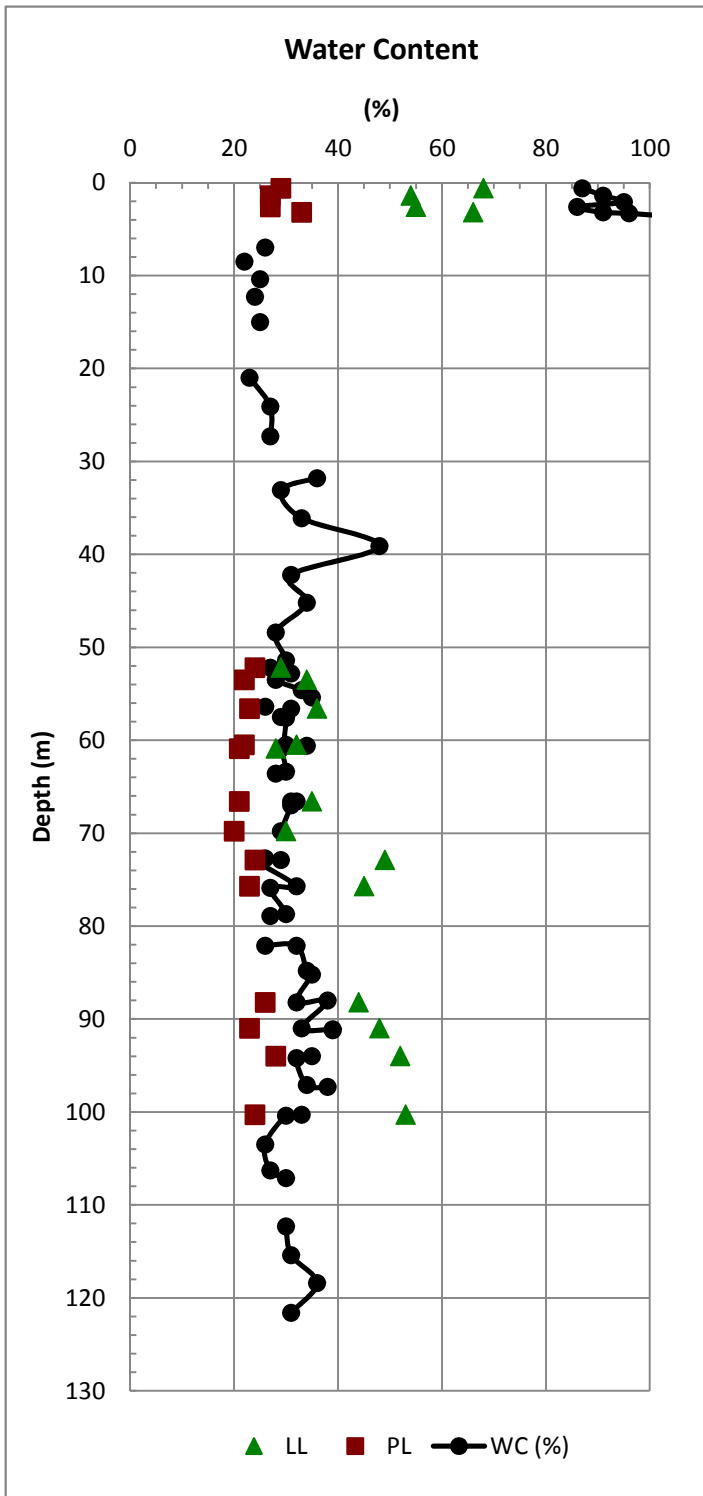
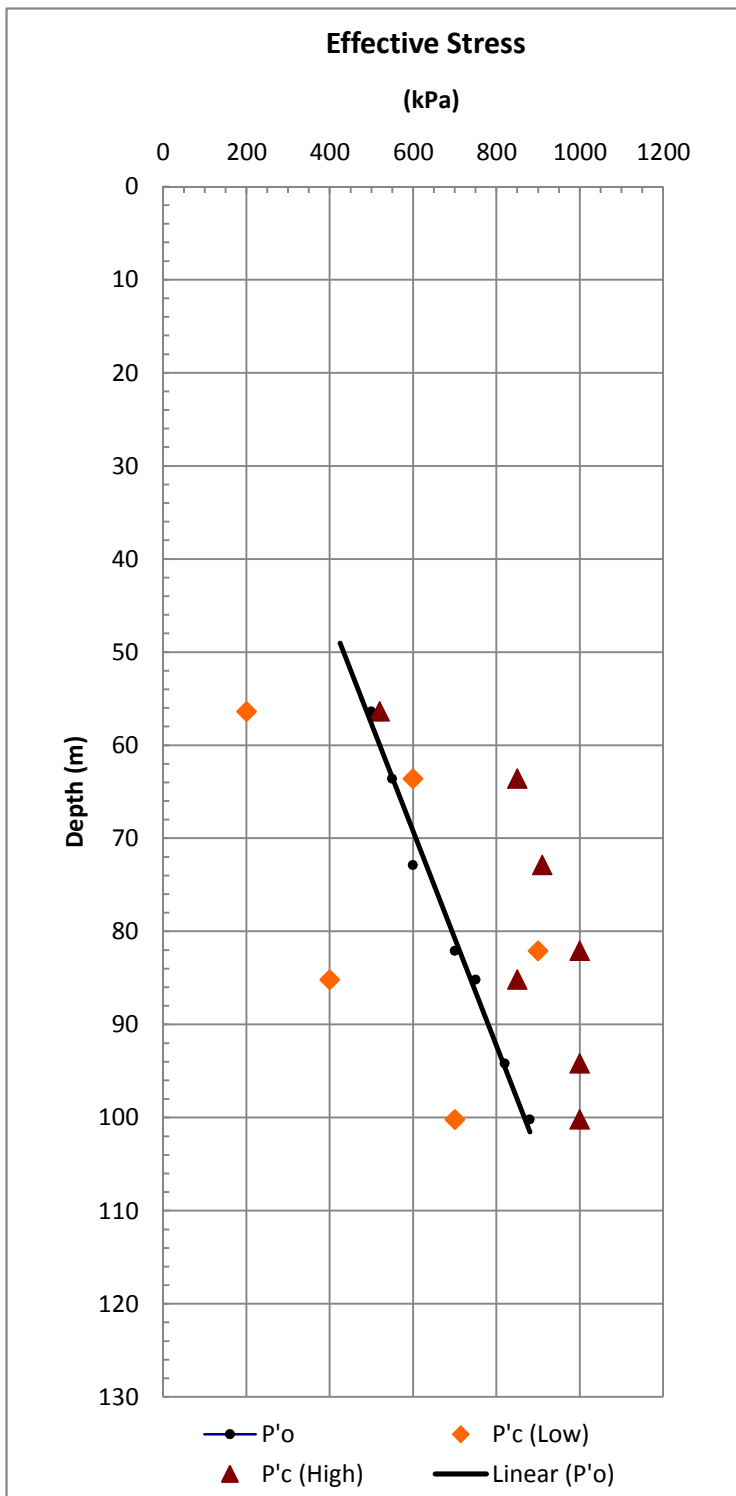
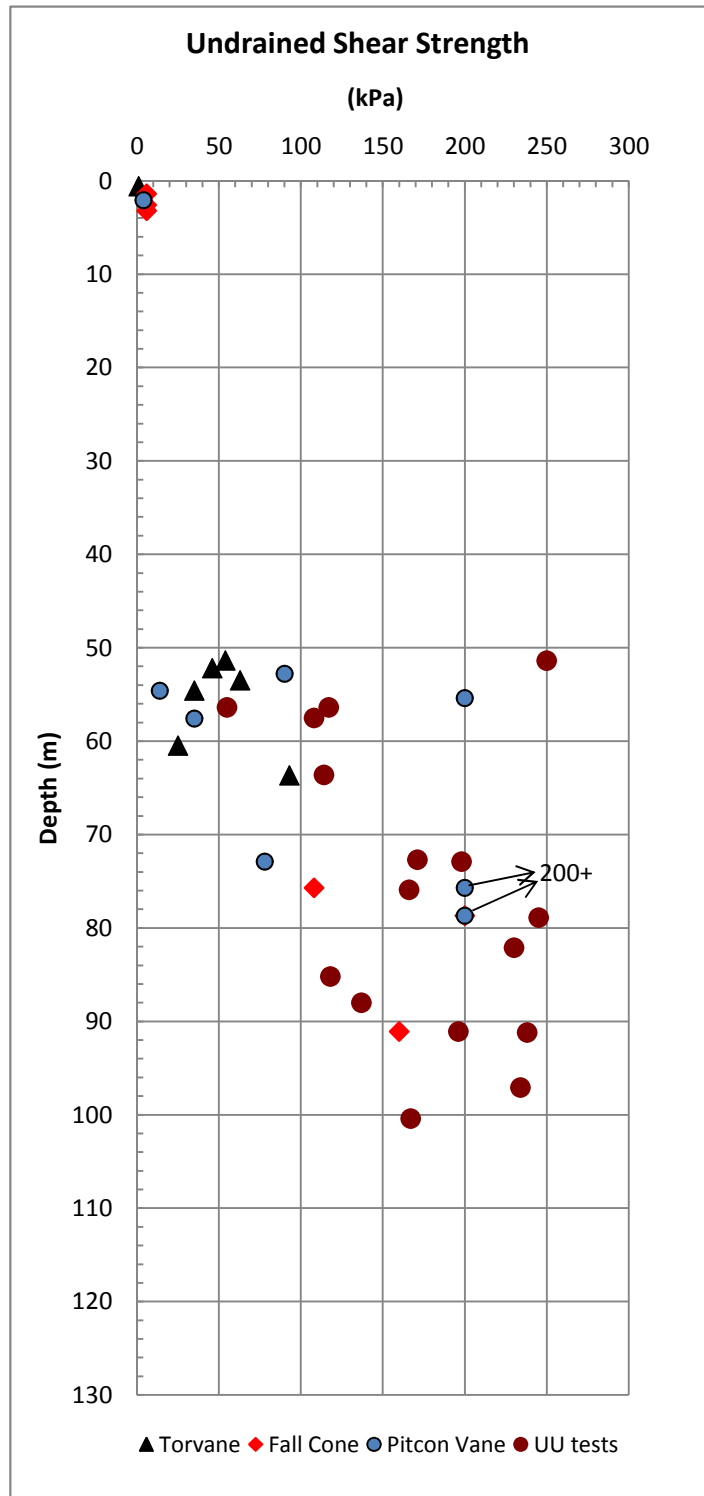
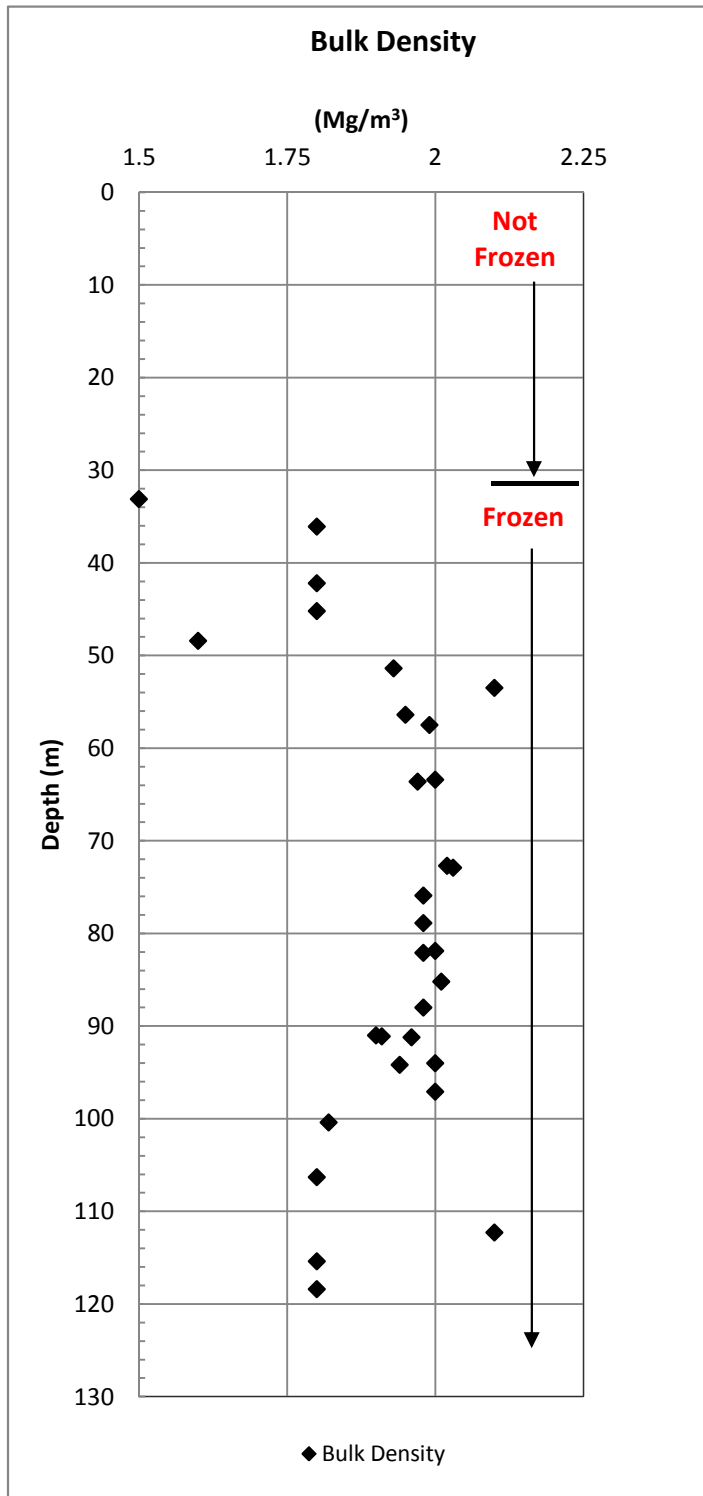


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Nerlerk B-Ner 3:9

Figure C.3

10033 Beaufort Data

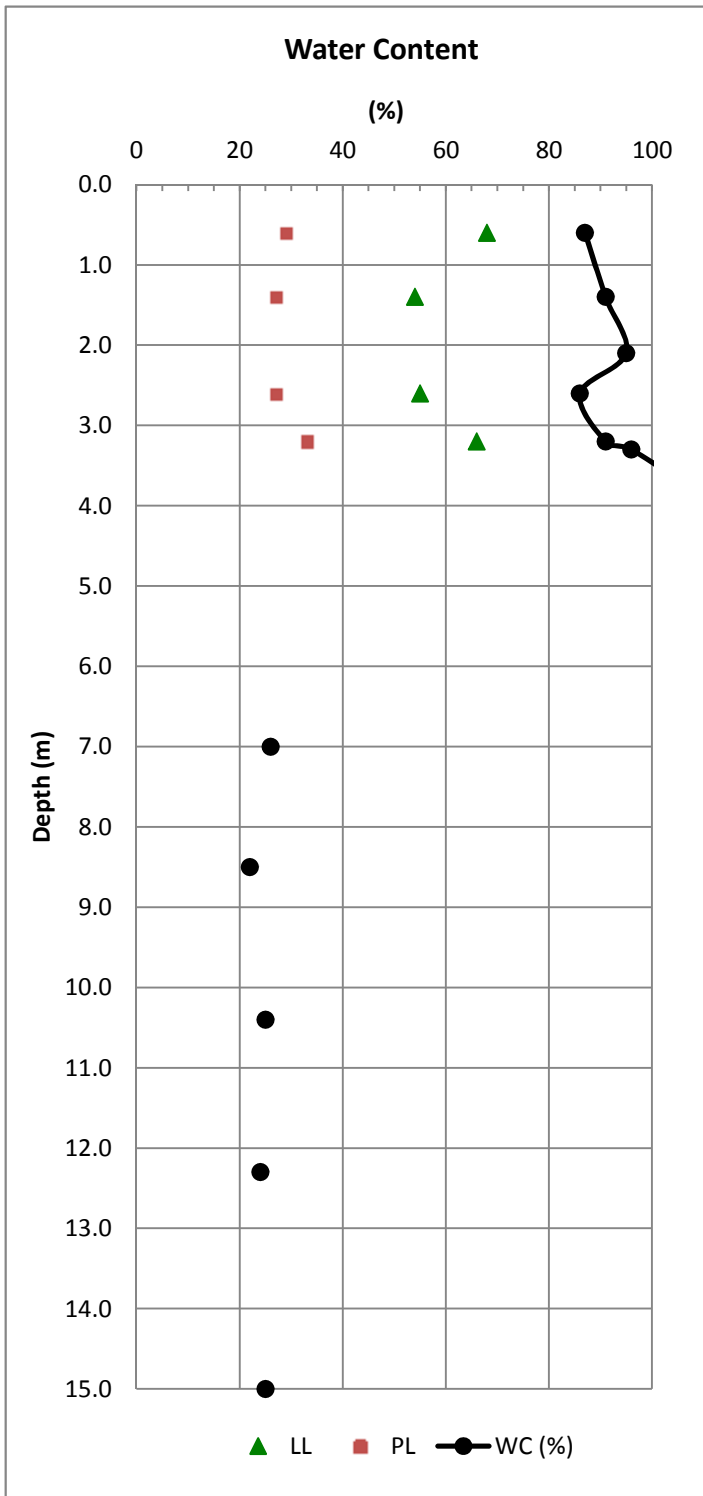
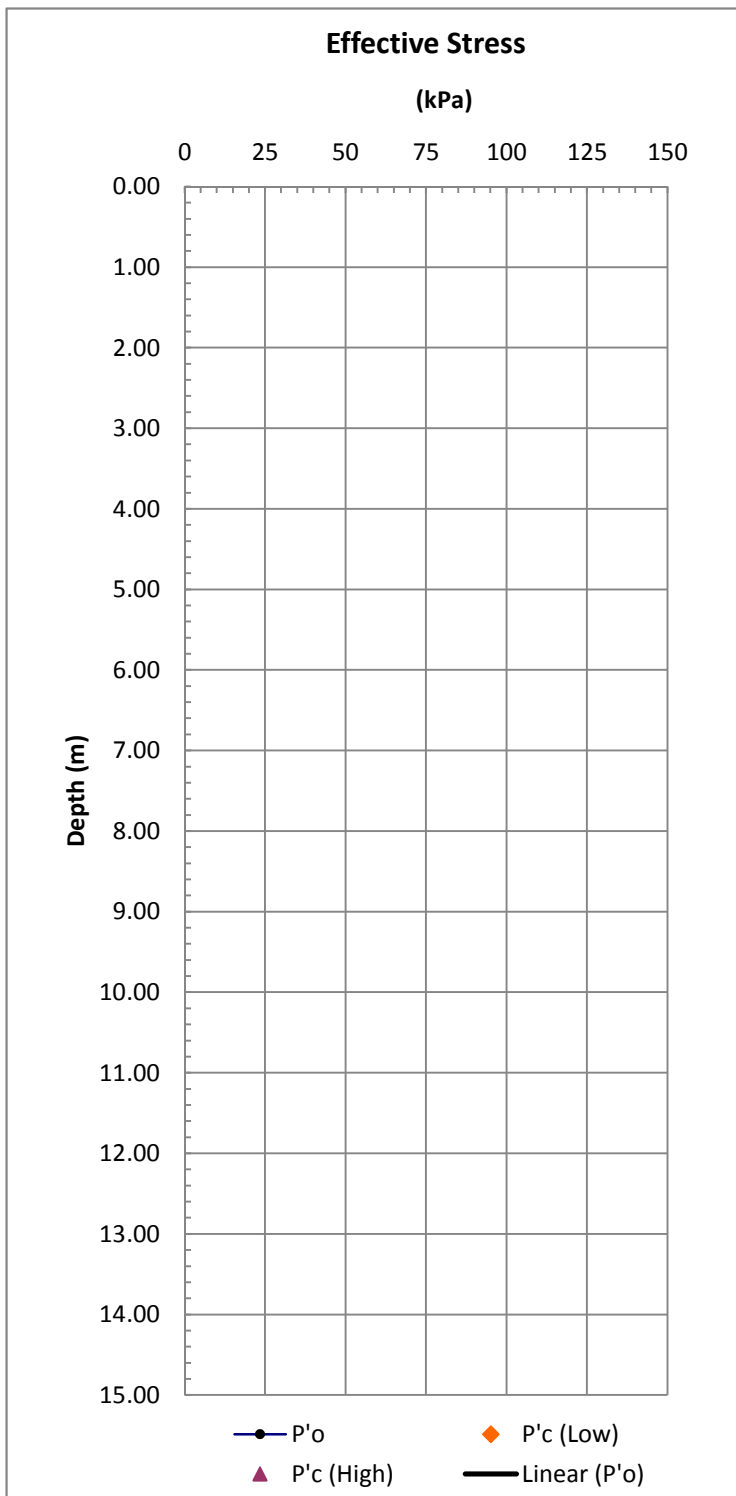
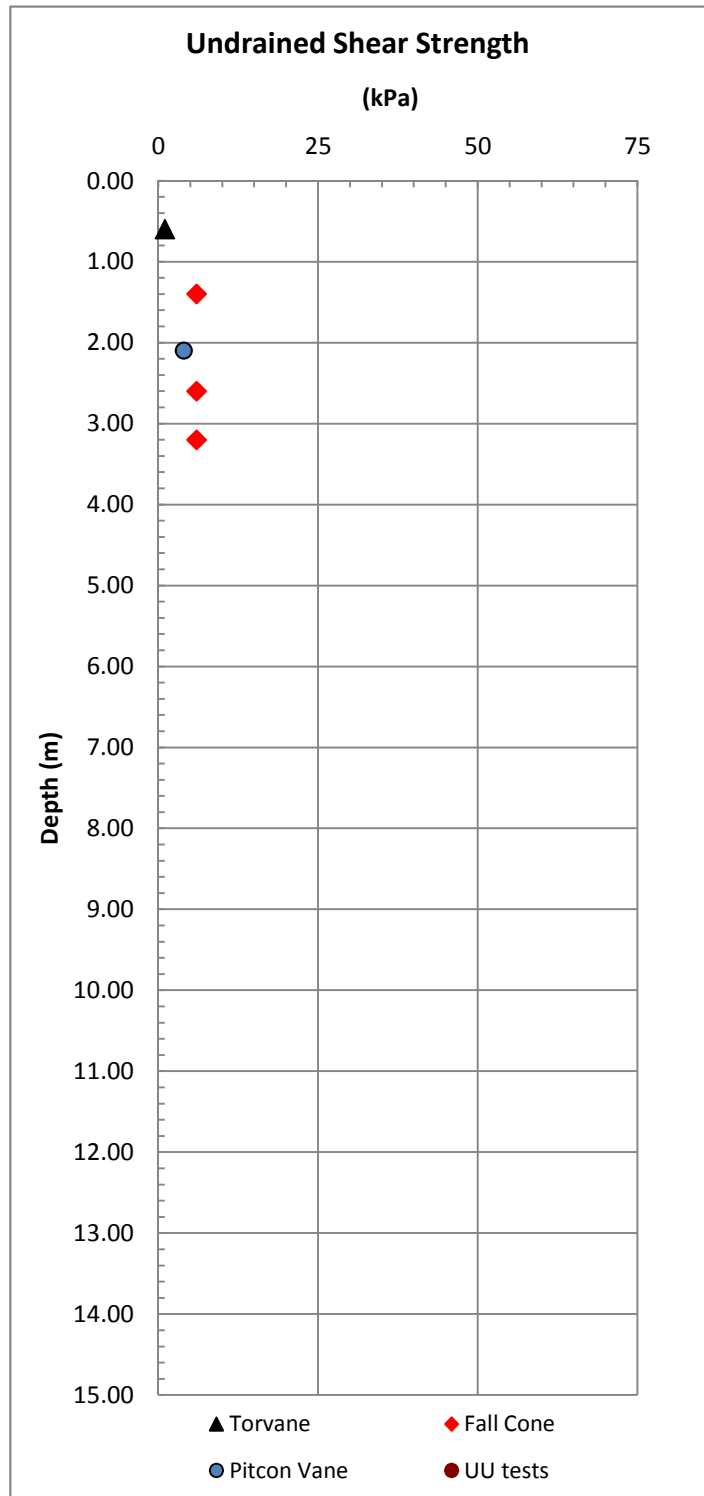
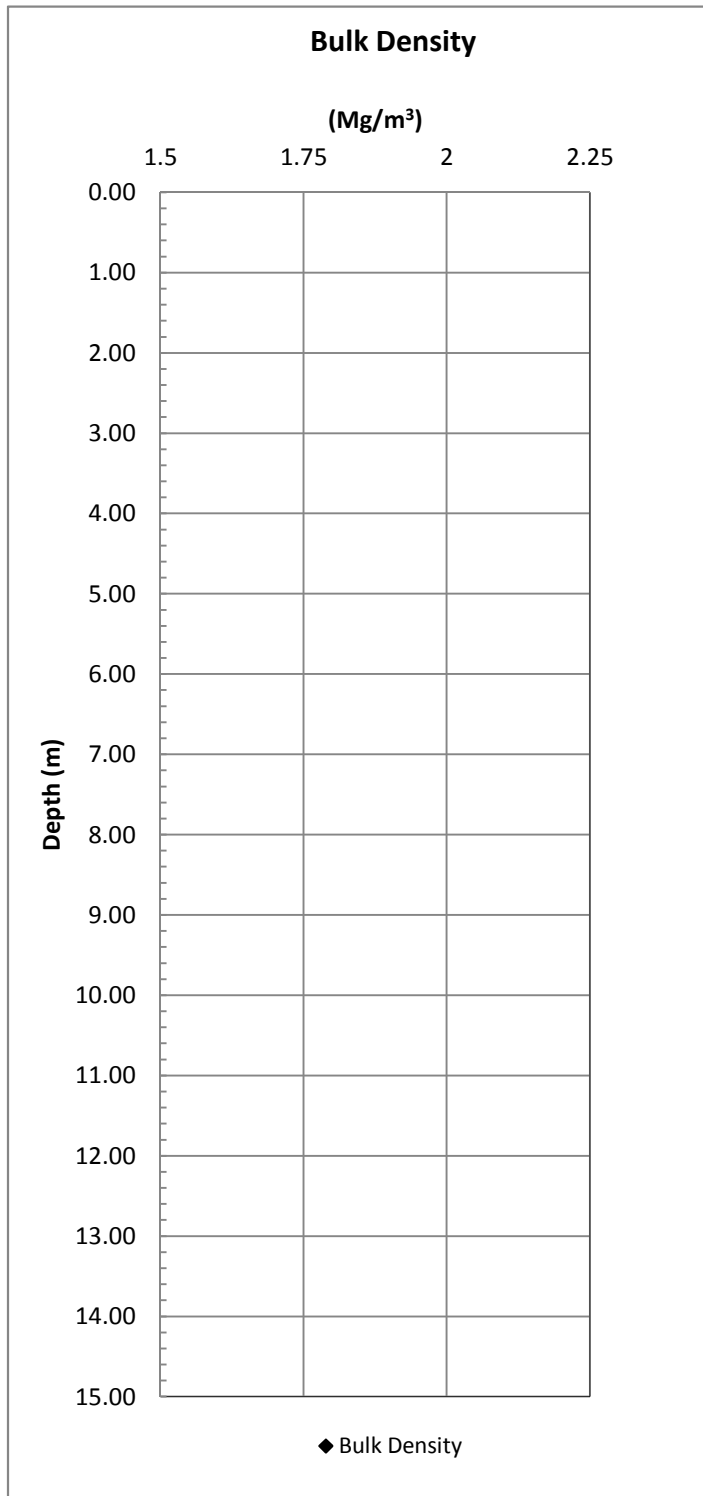


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Figure C.3

10033 Beaufort Data

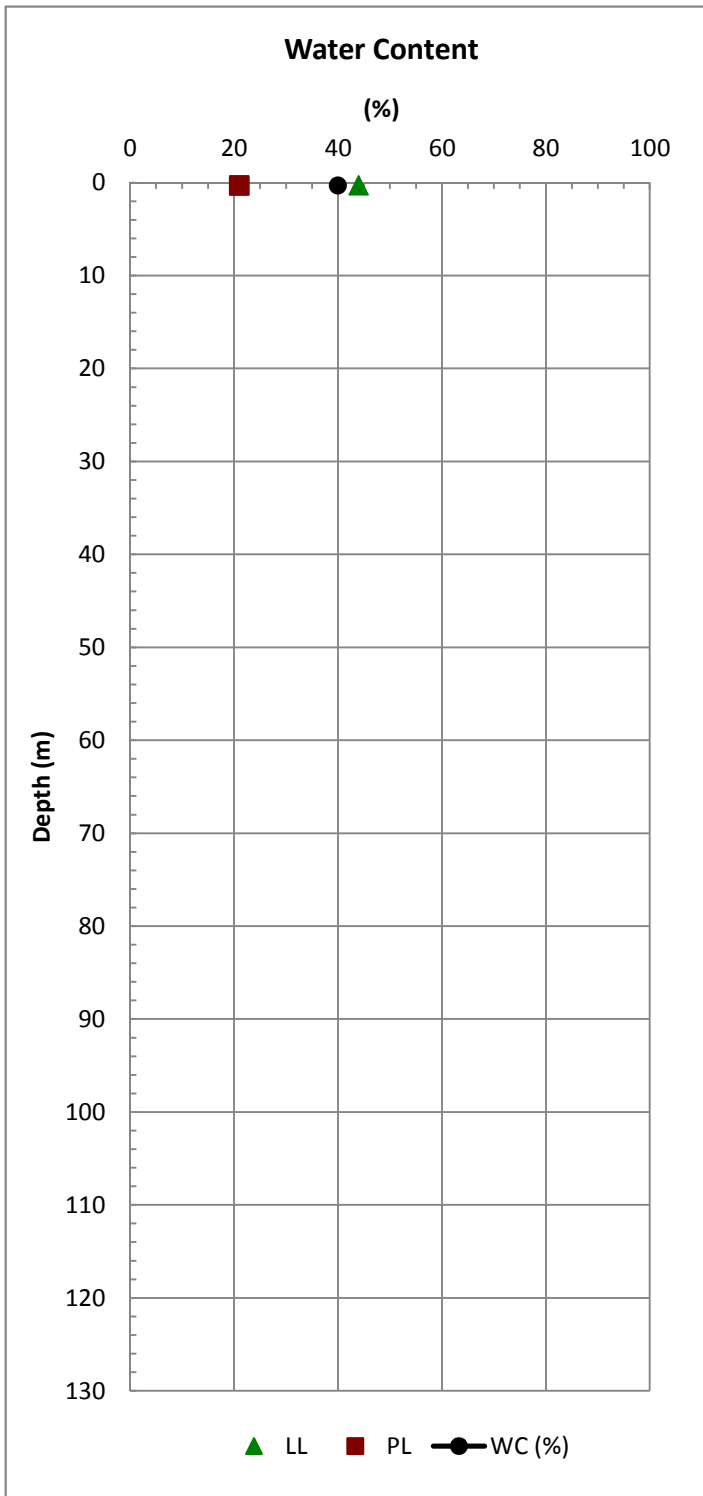
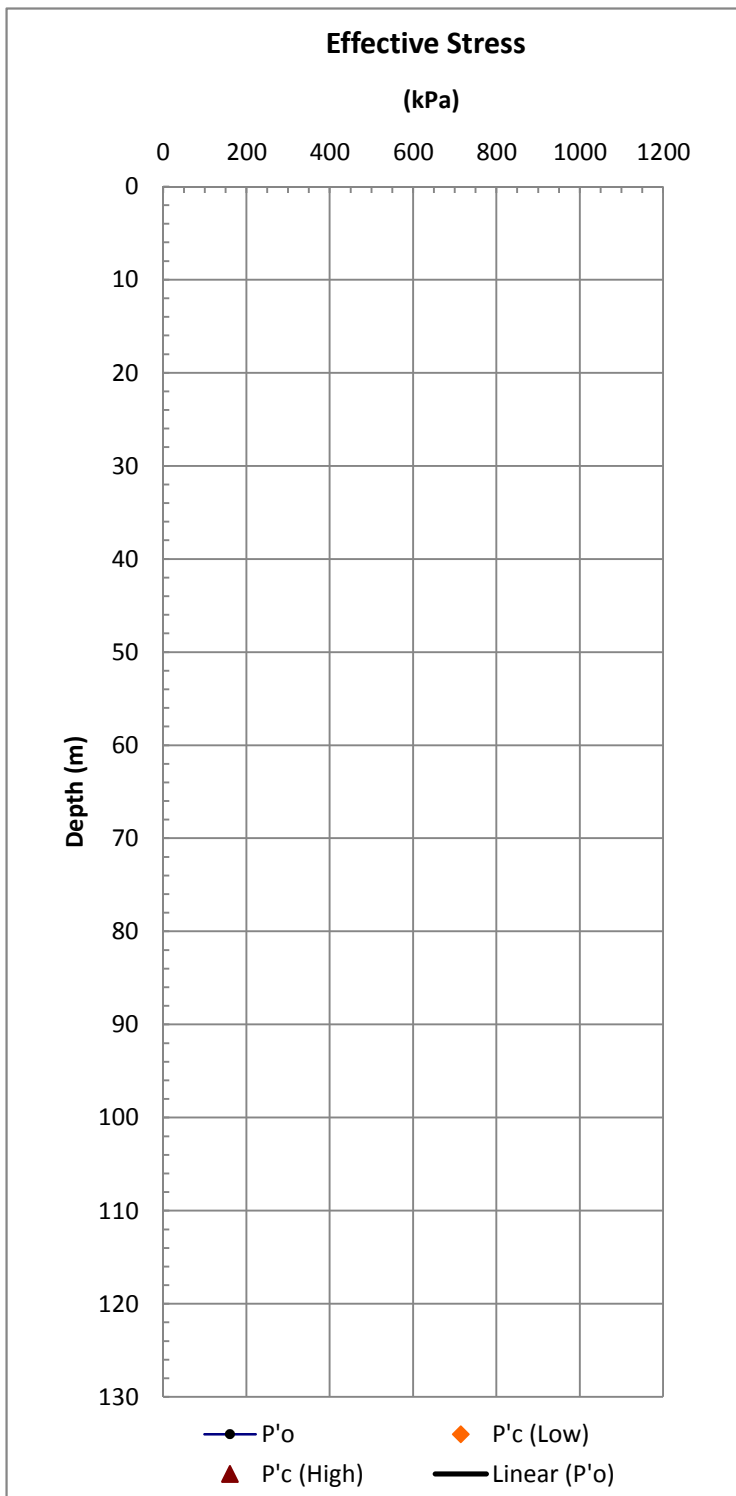
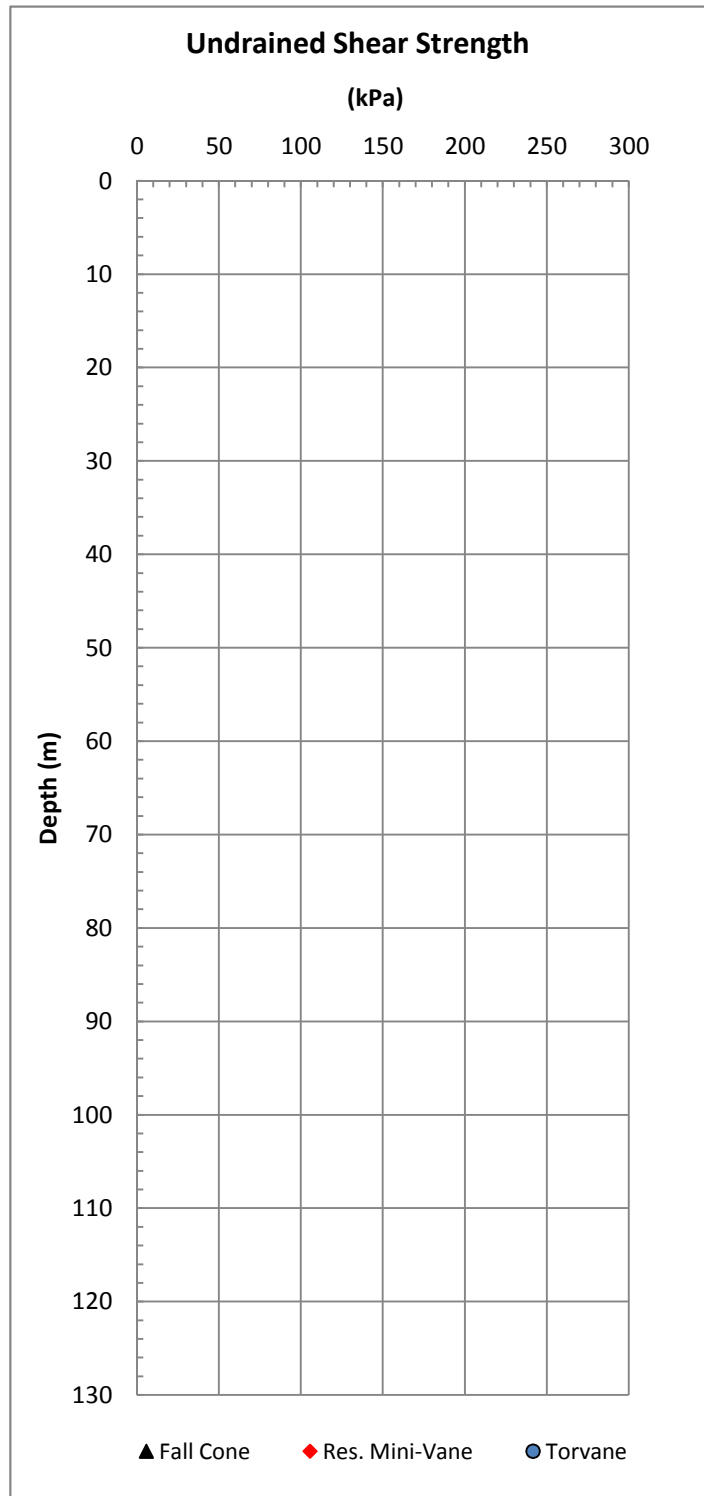
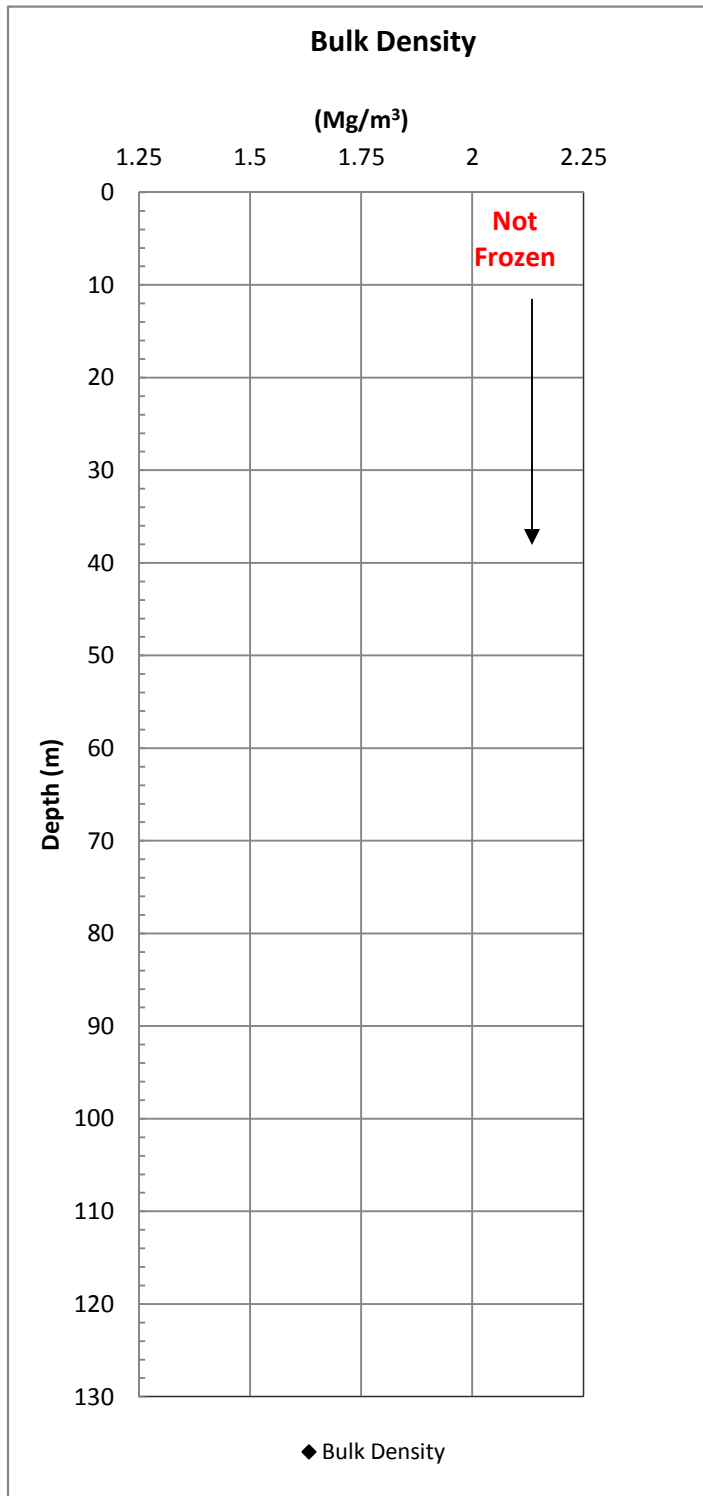


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Figure C.3

10033 Beaufort Data

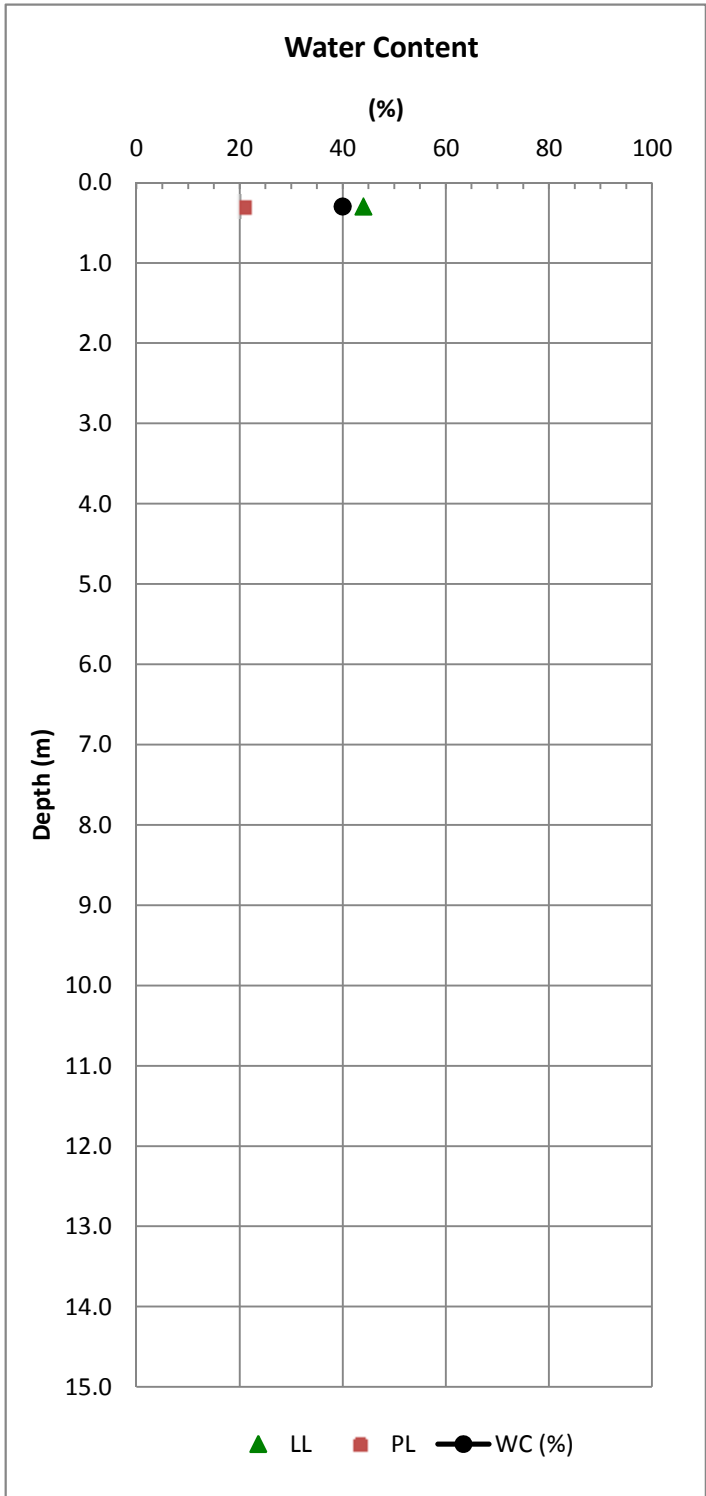
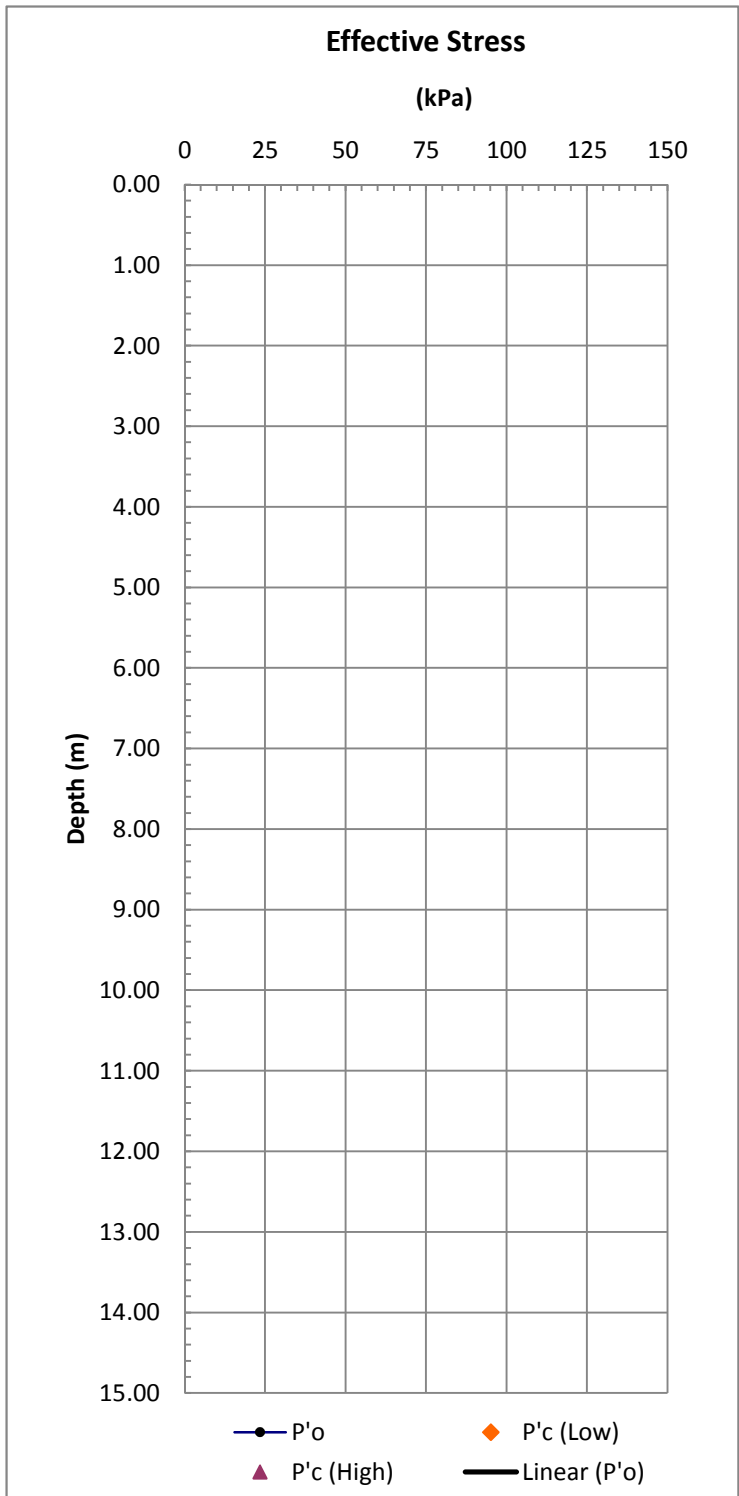
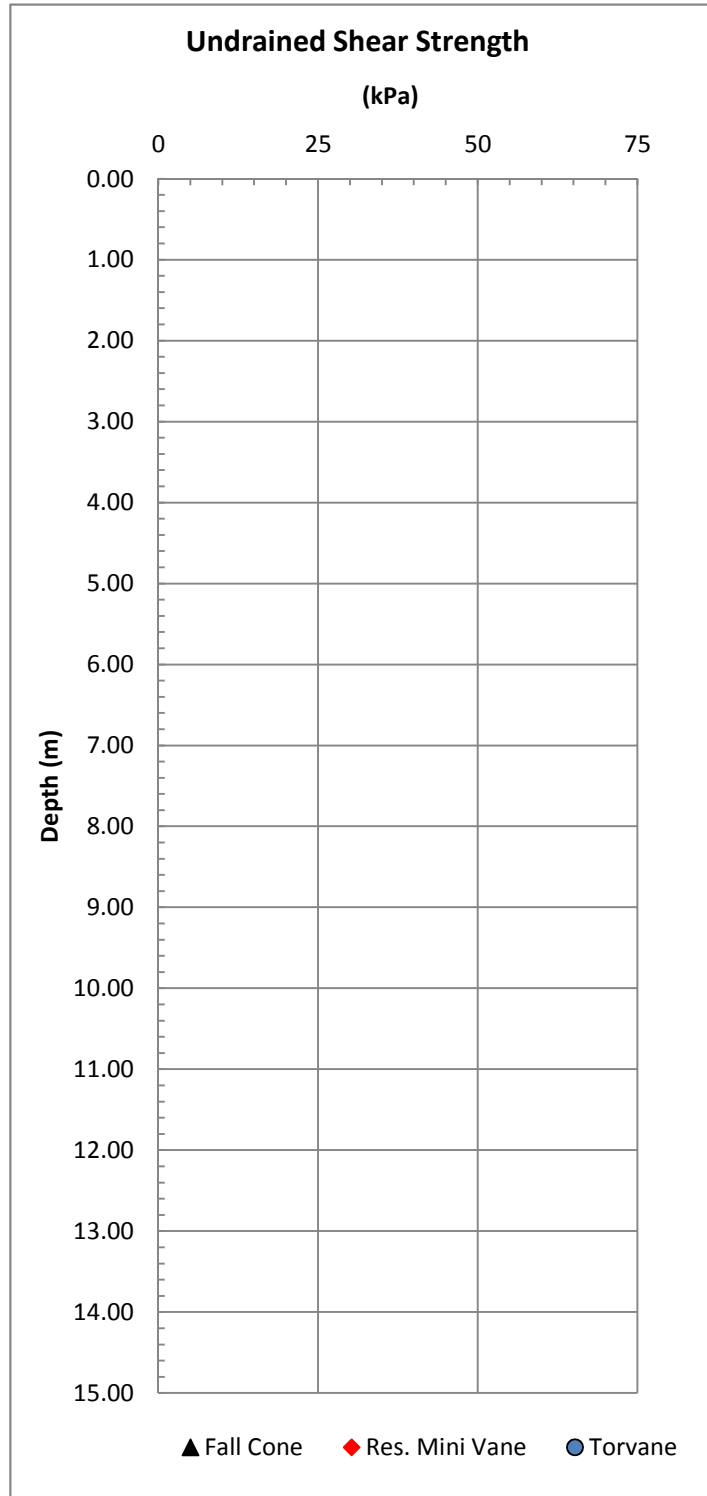
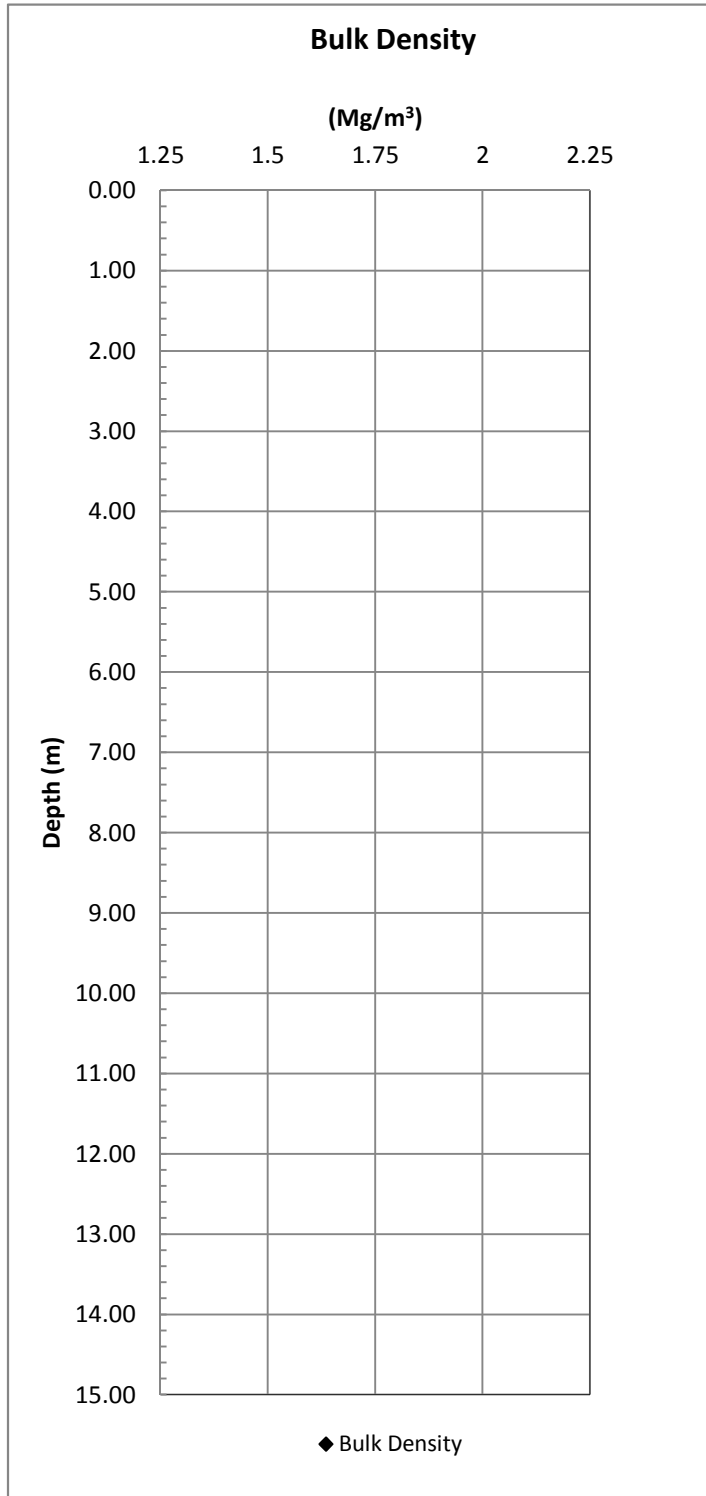


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Figure C.3

10033 Beaufort Data

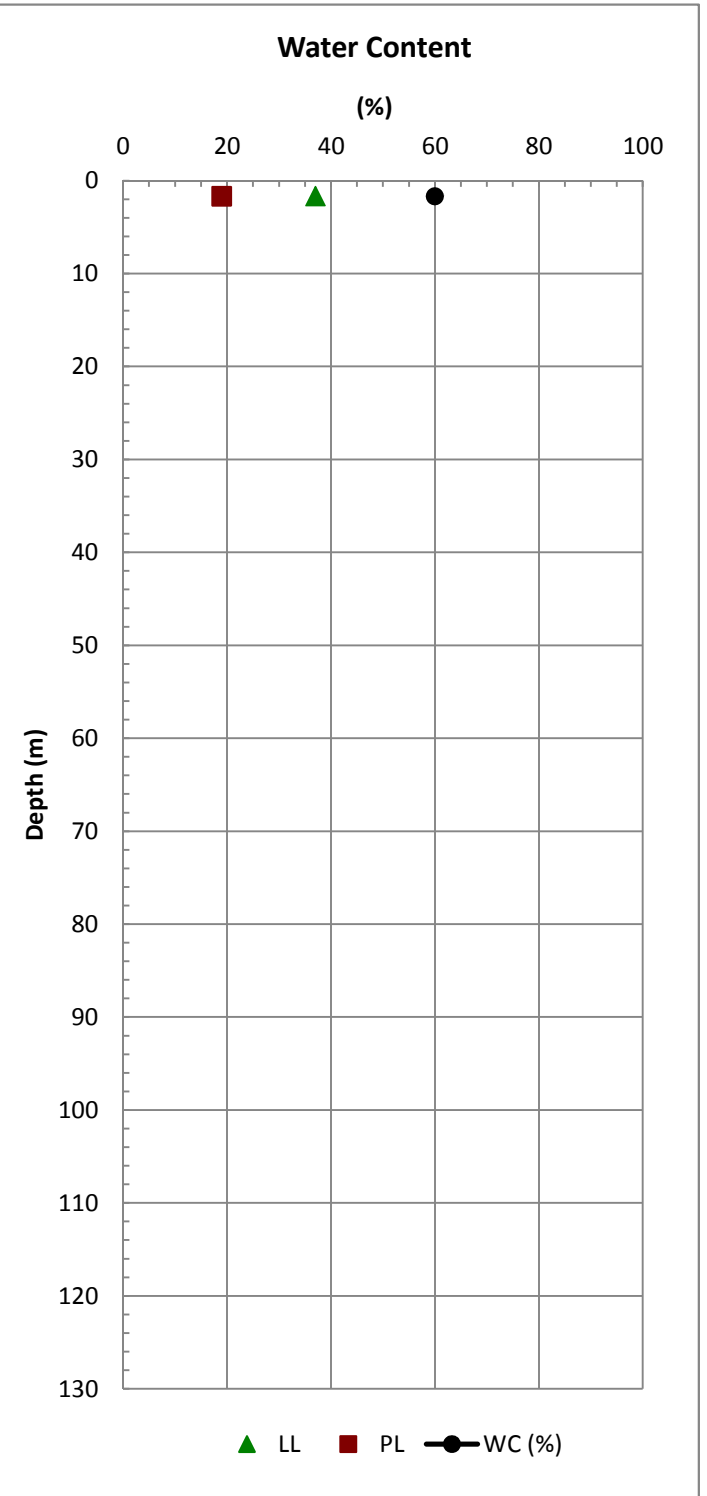
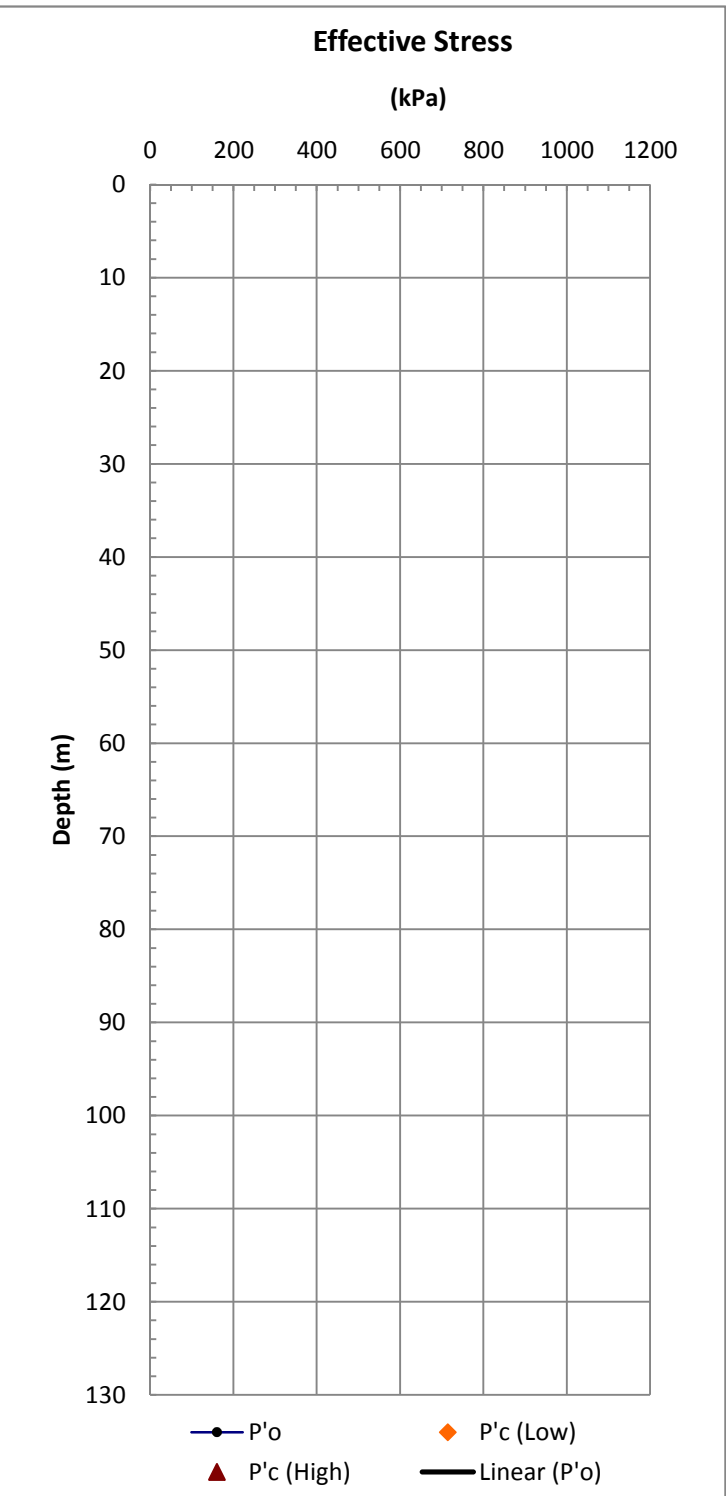
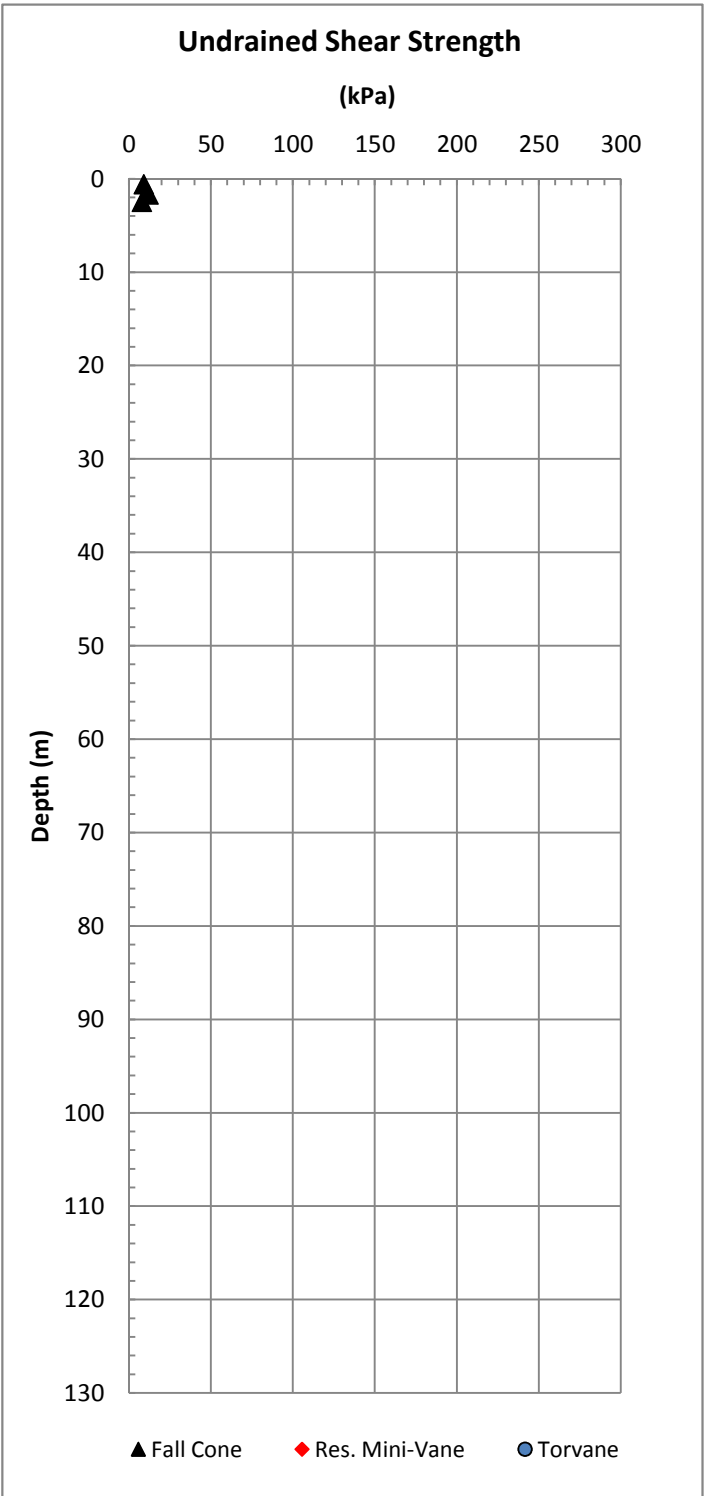
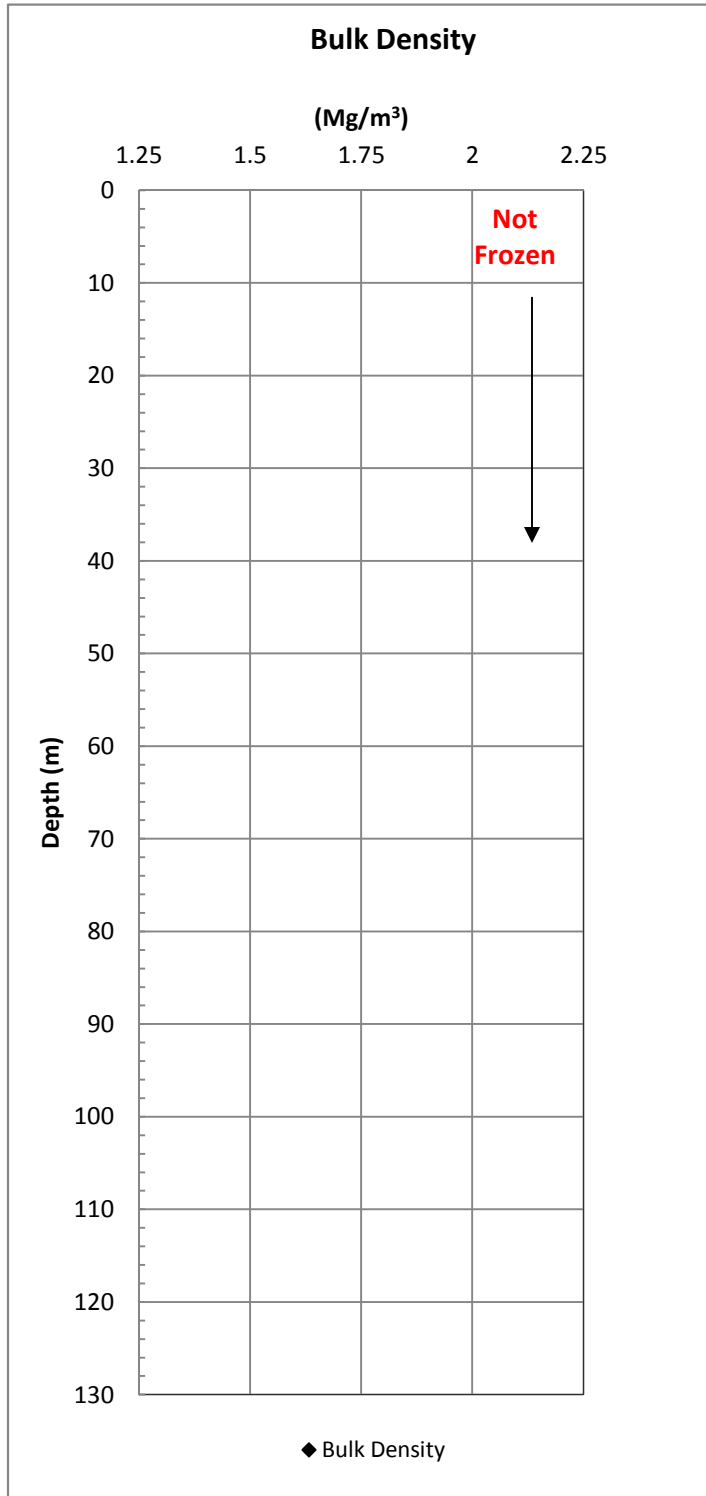


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Figure C.3

10033 Beaufort Data

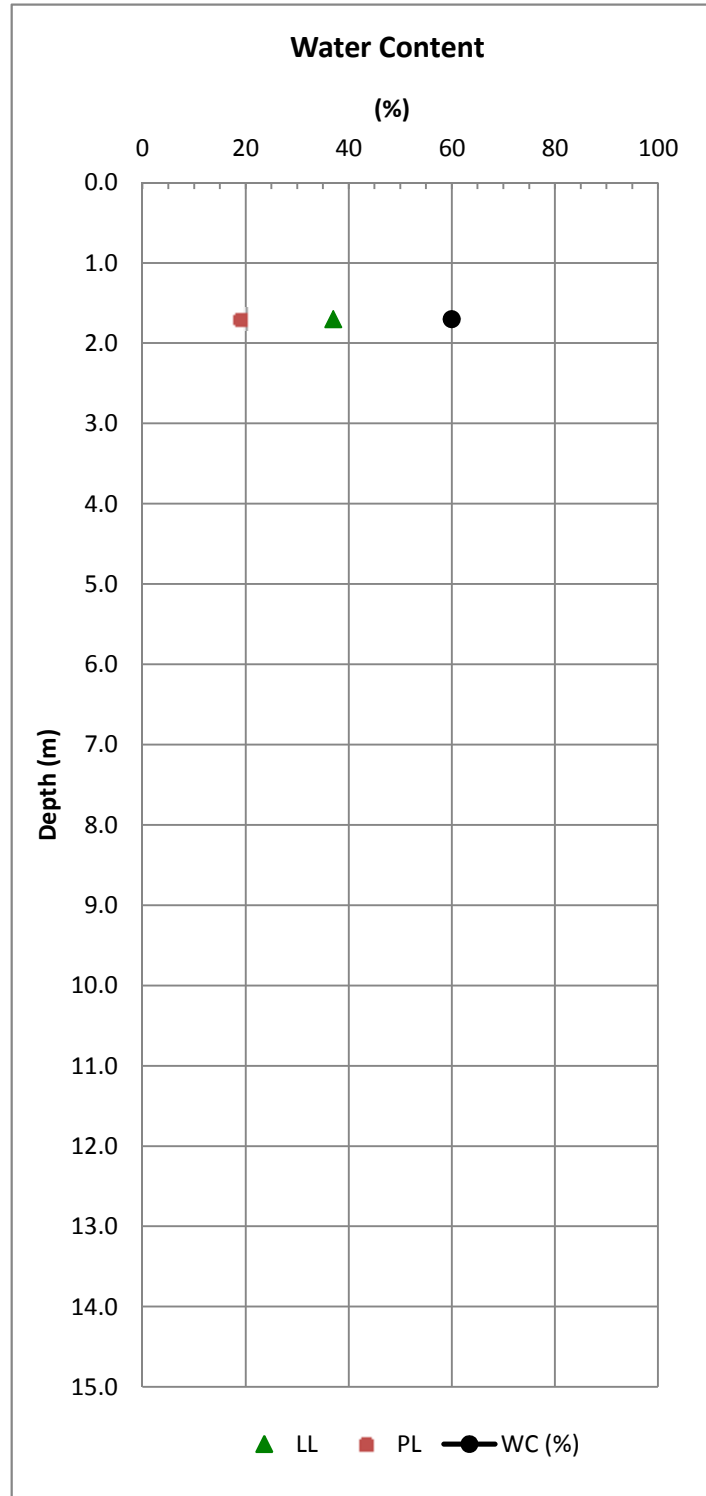
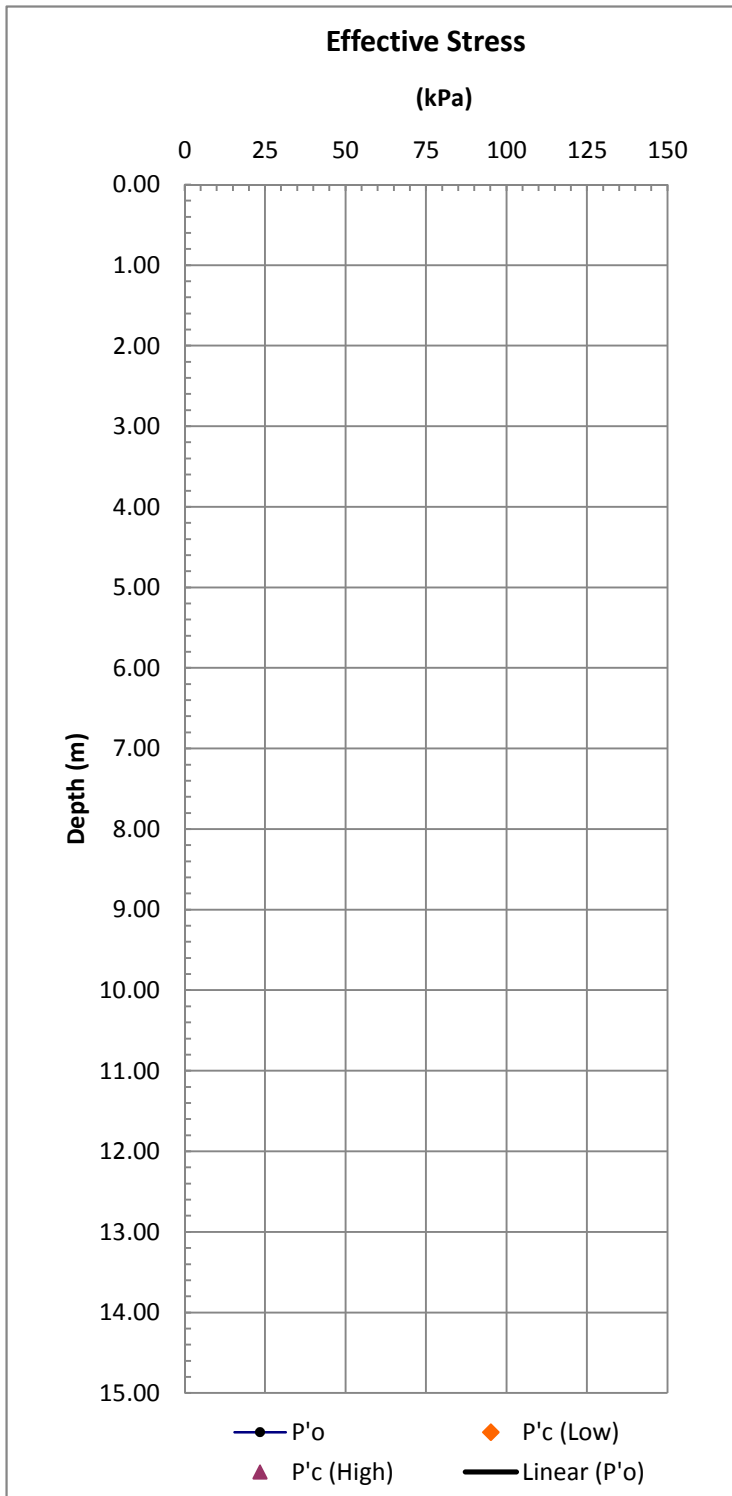
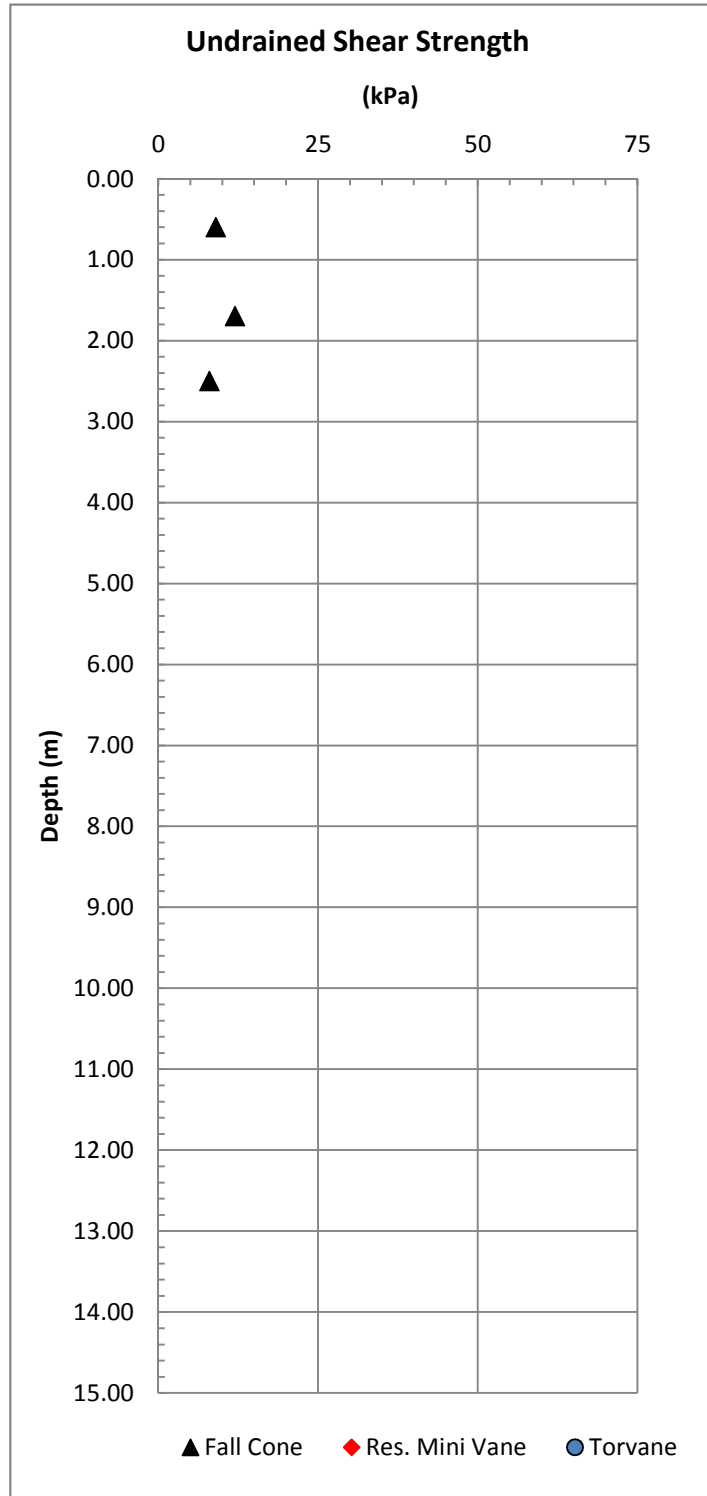
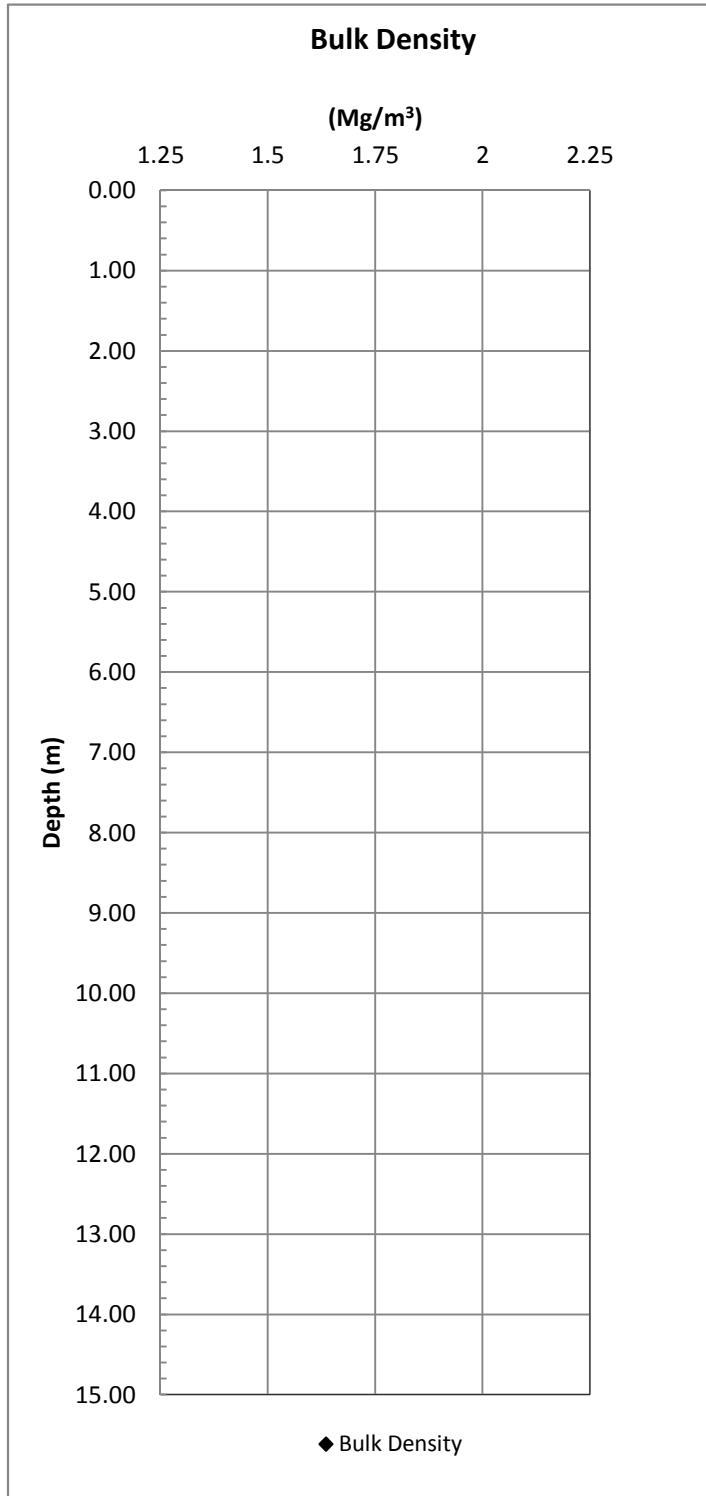


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Figure C.3

10033 Beaufort Data

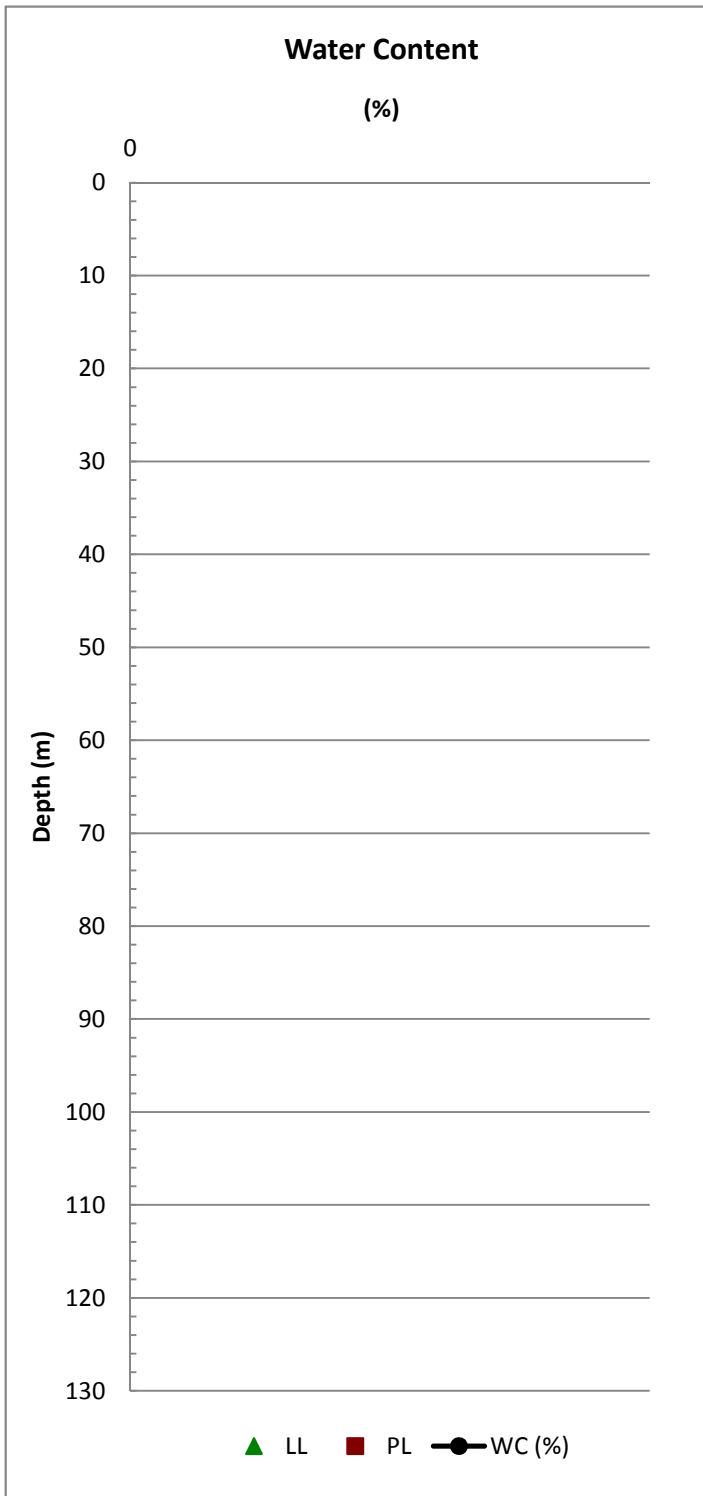
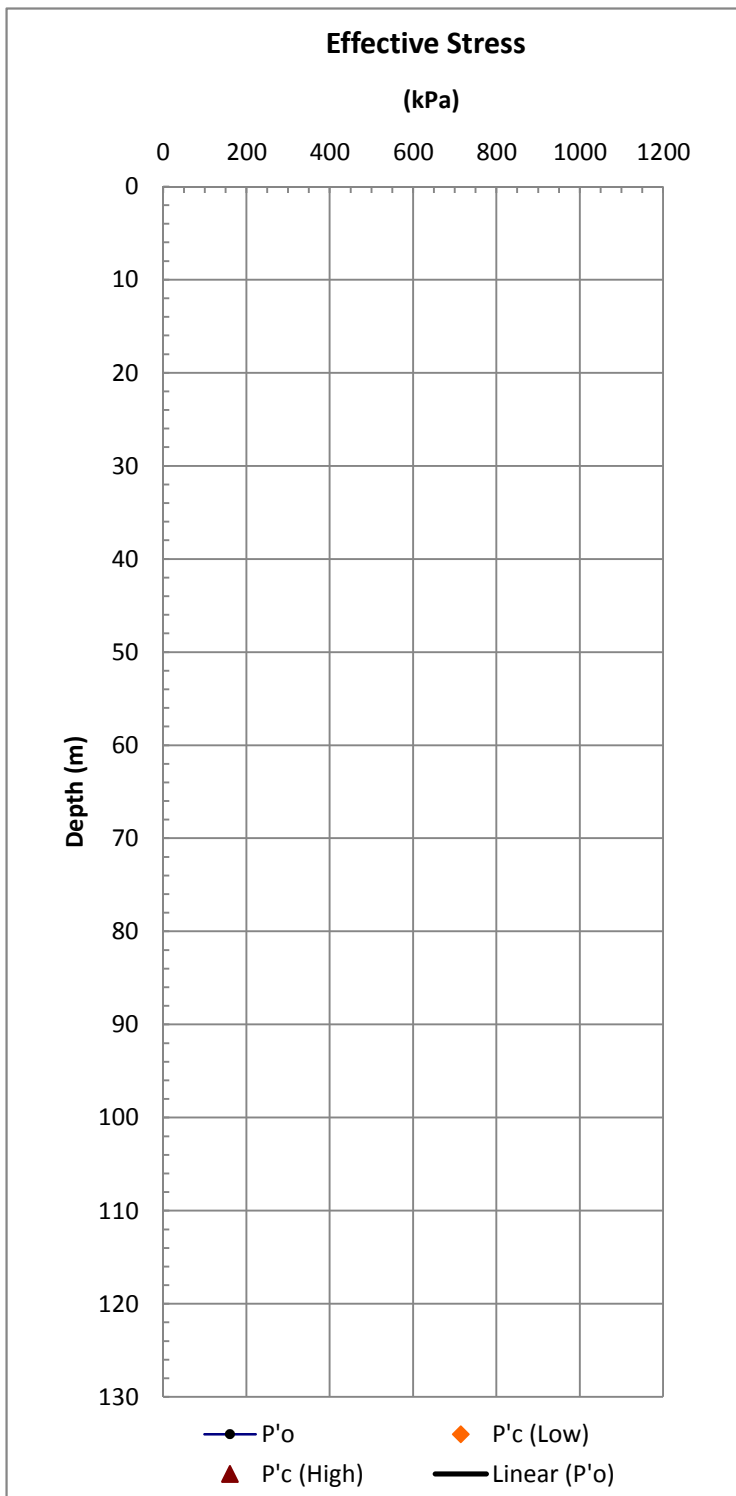
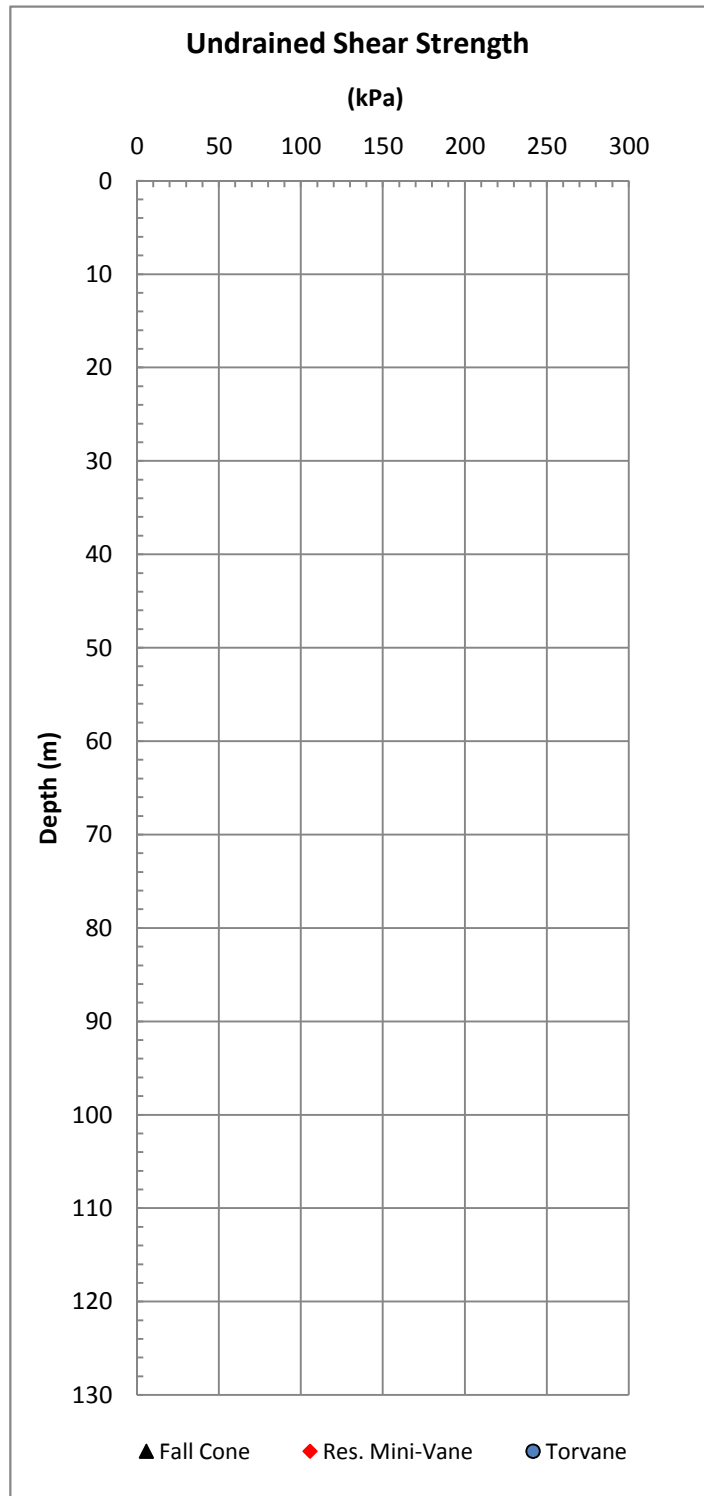
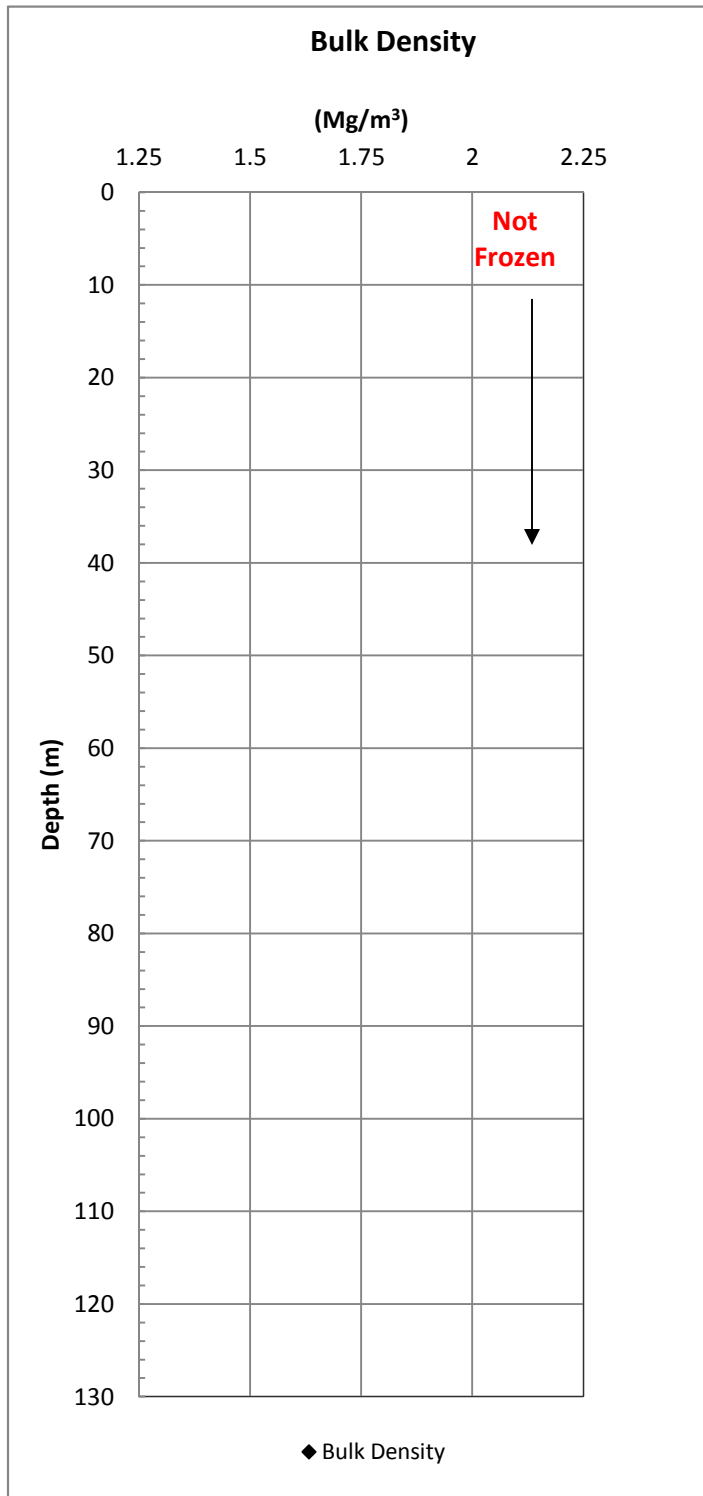


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Figure C.3

10033 Beaufort Data

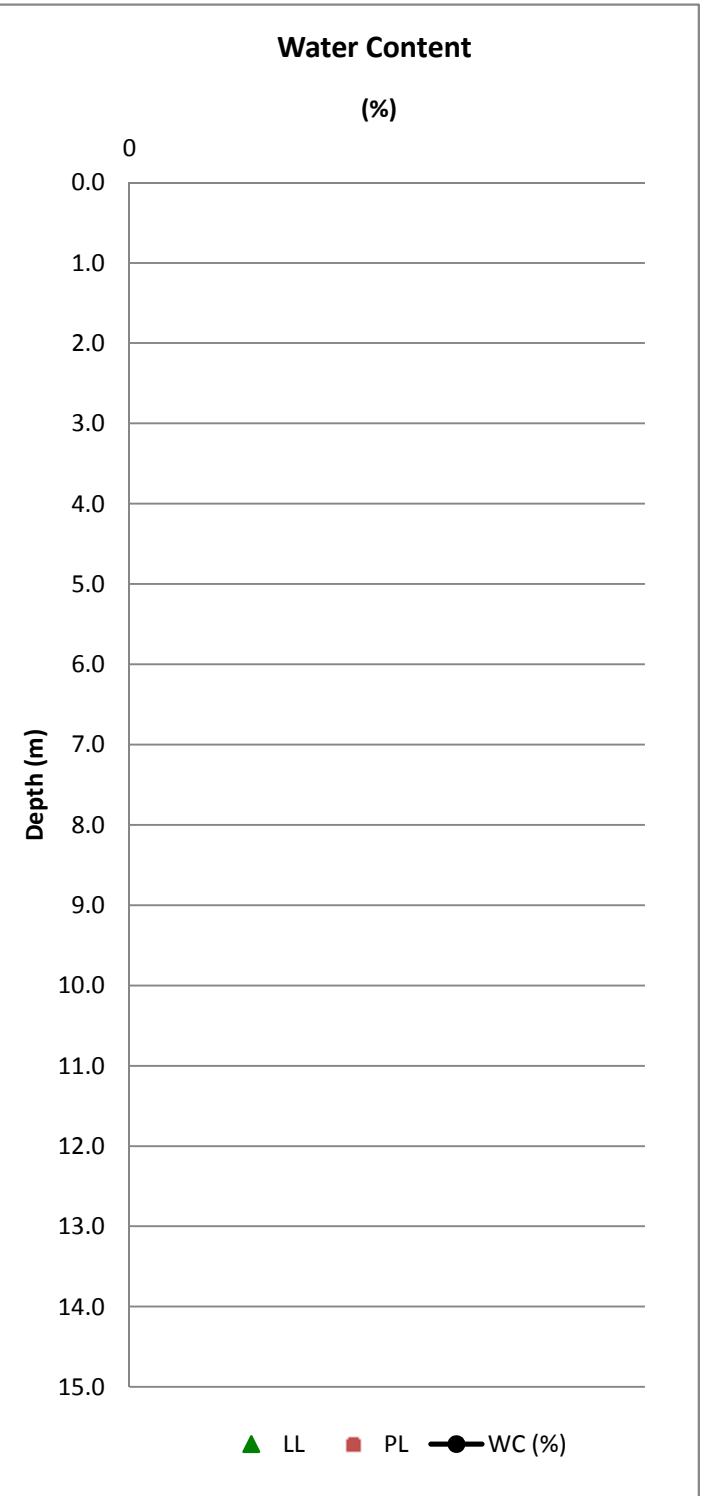
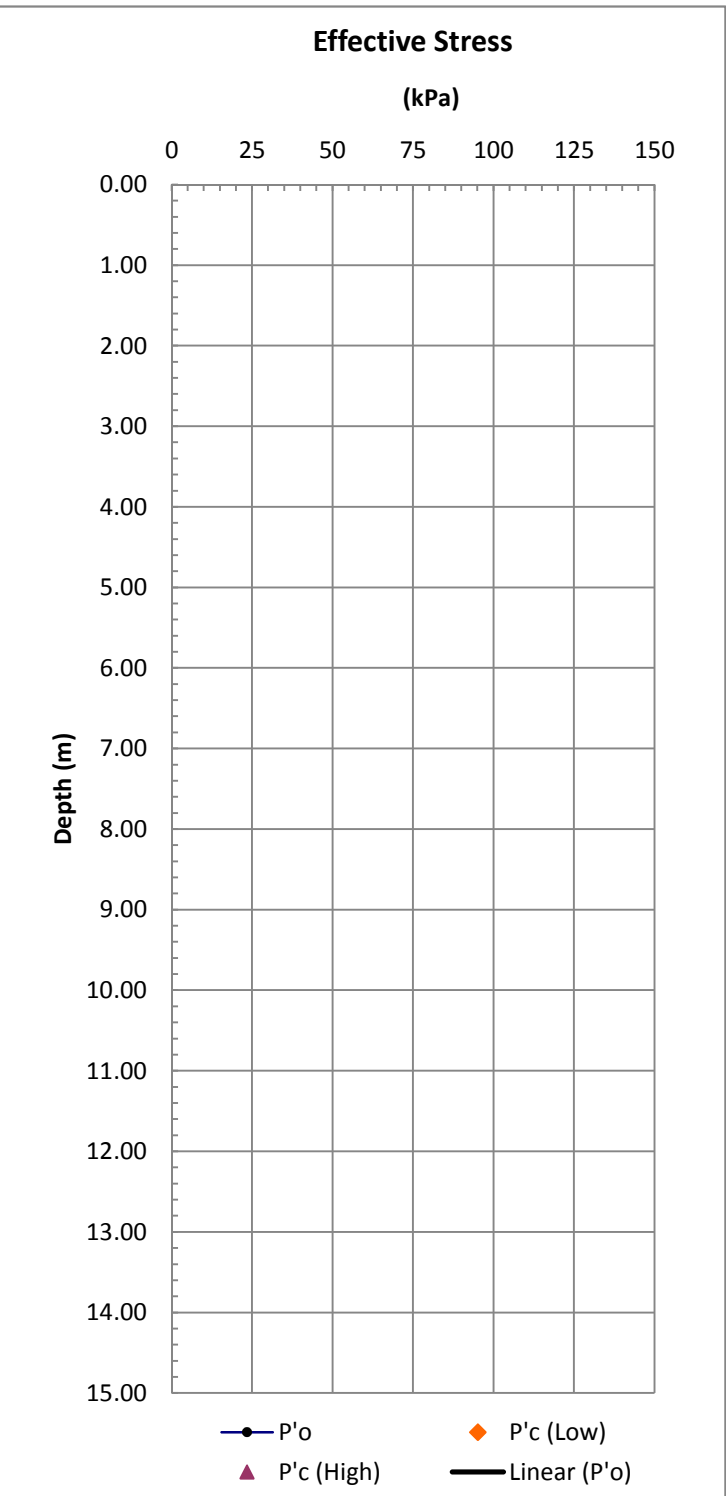
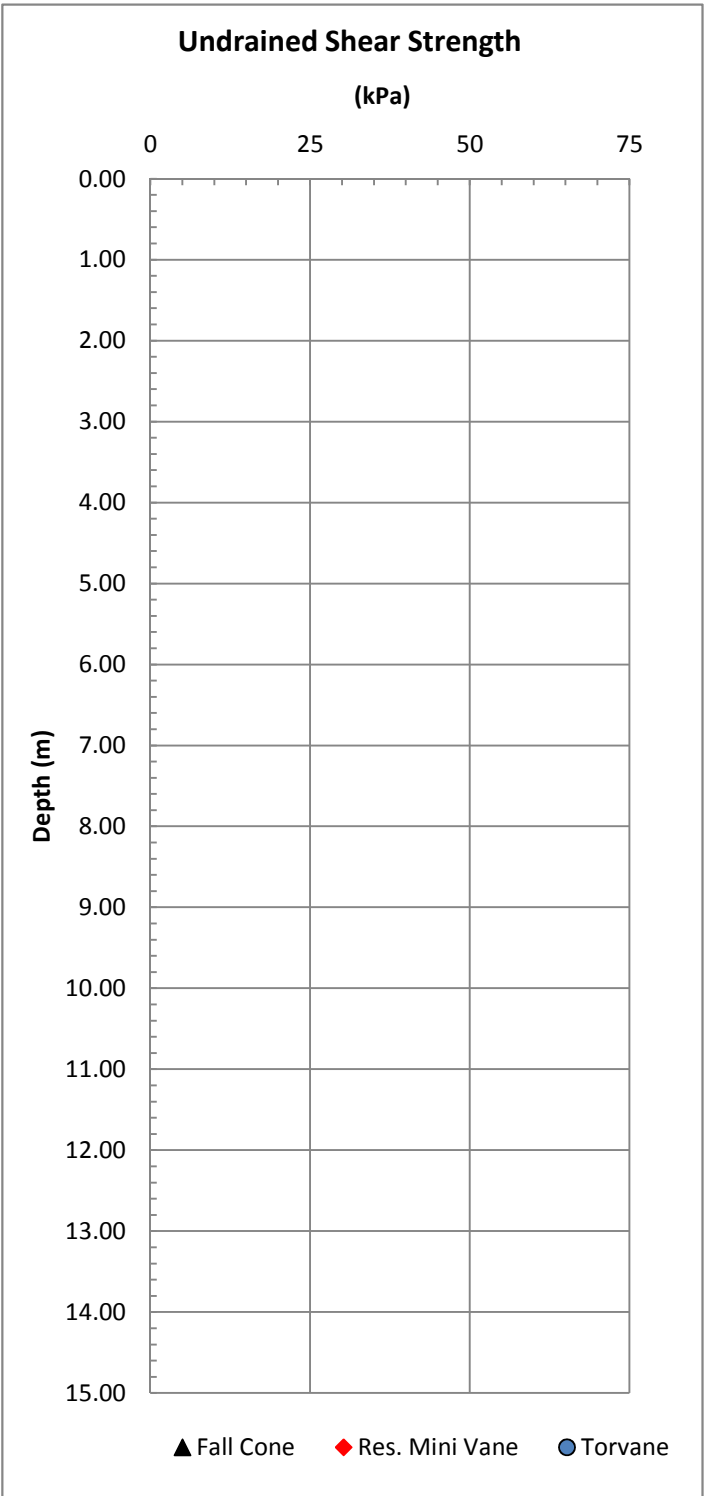
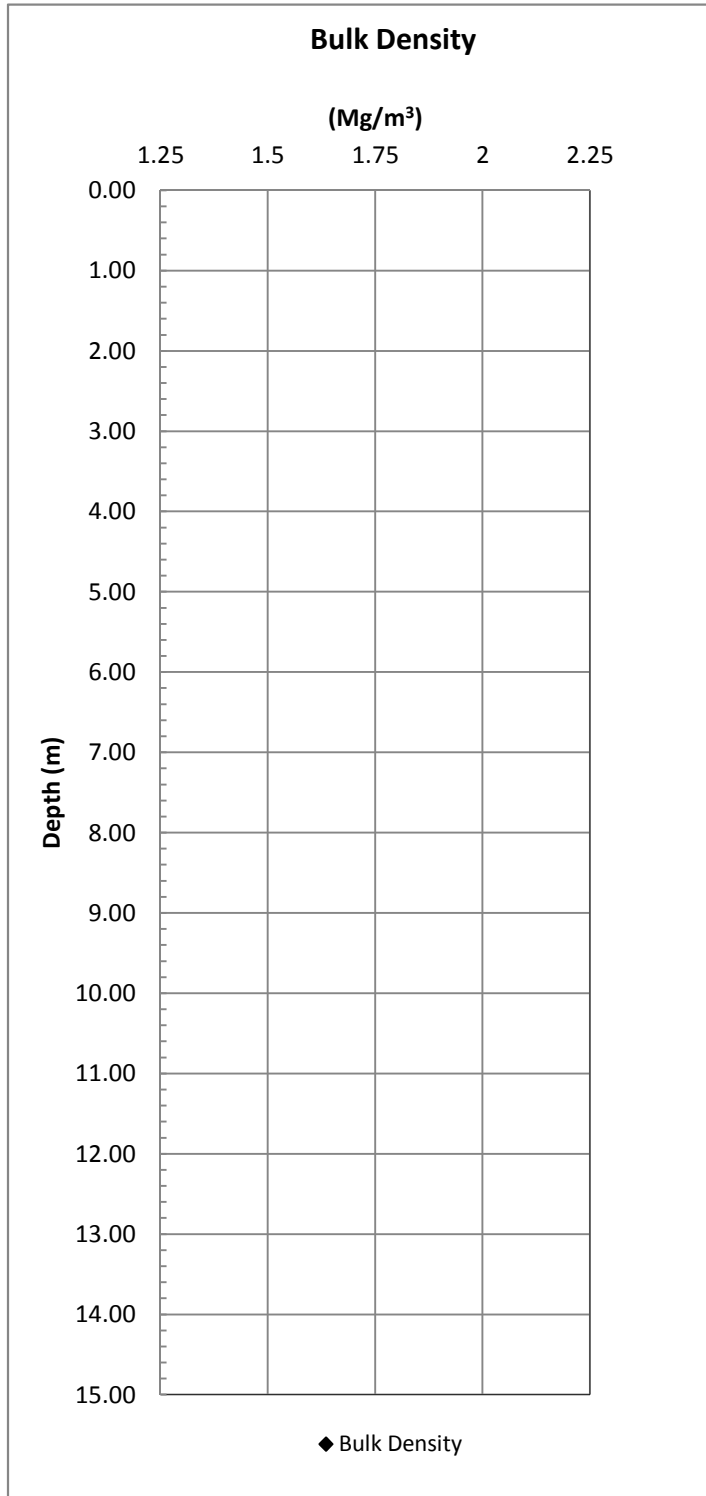


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Figure C.3

10033 Beaufort Data

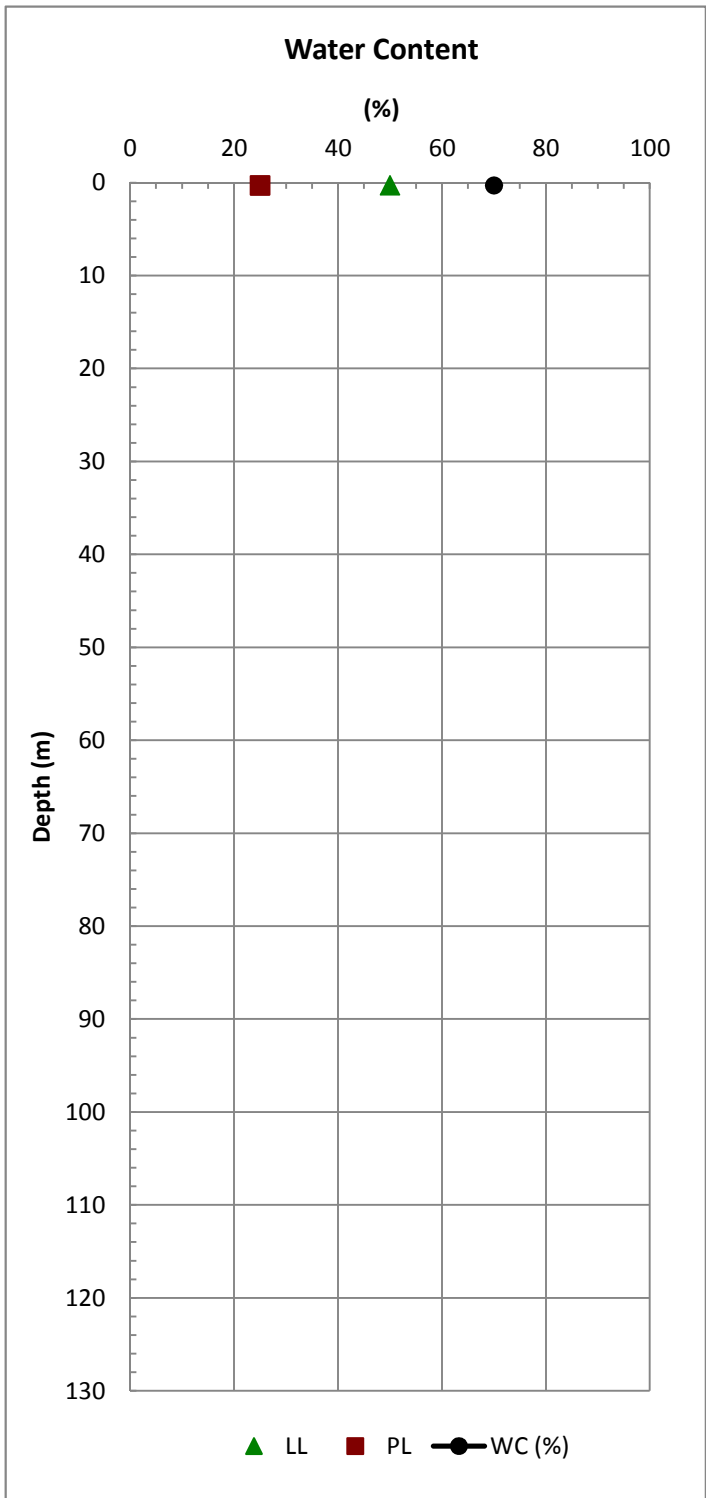
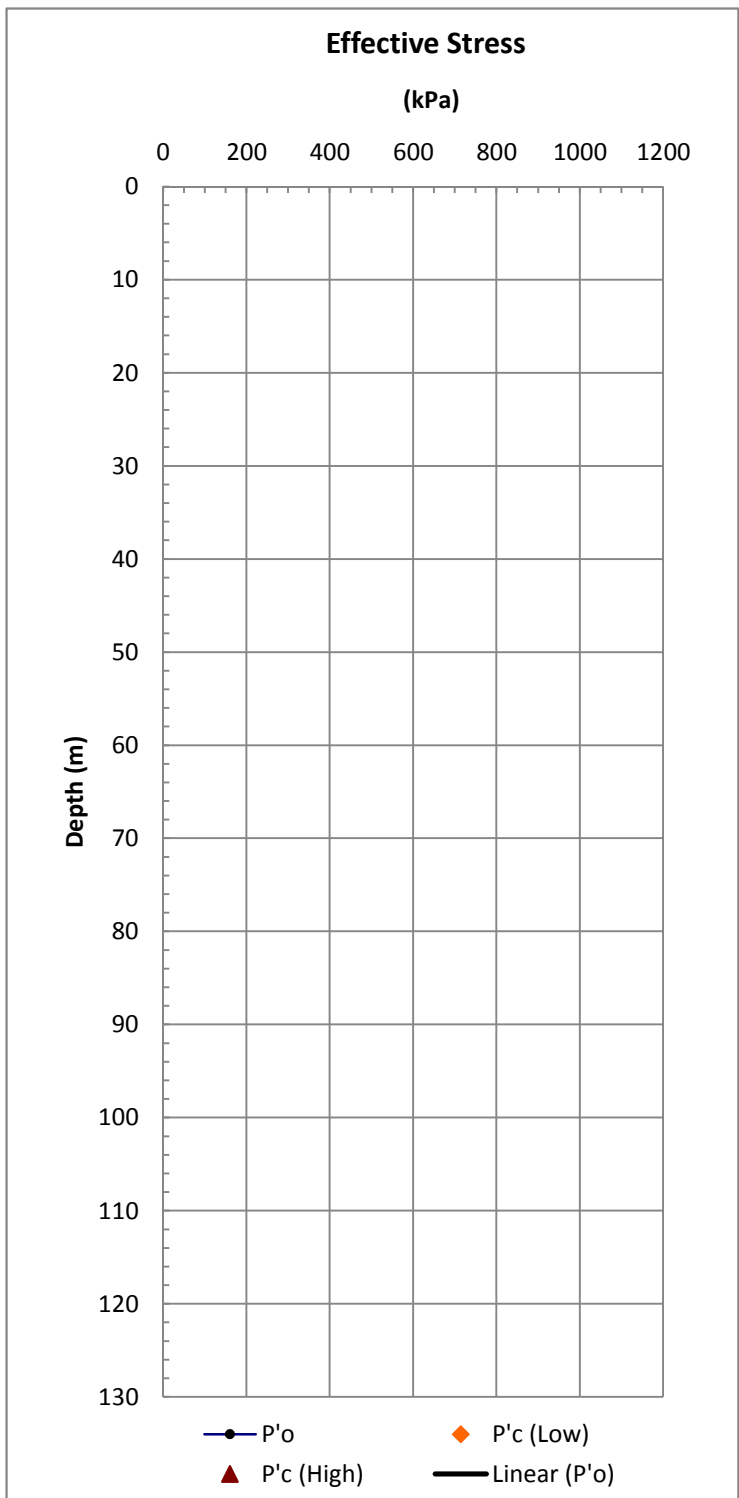
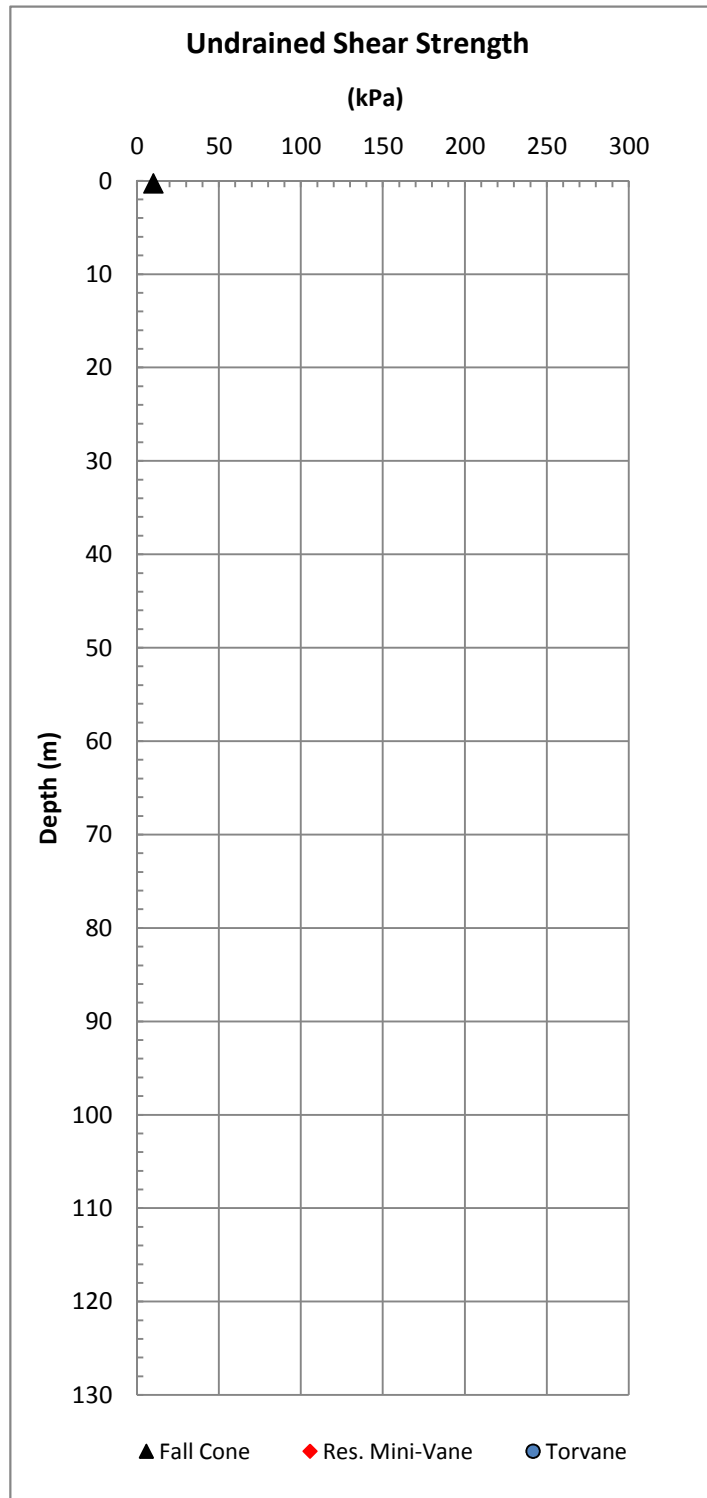
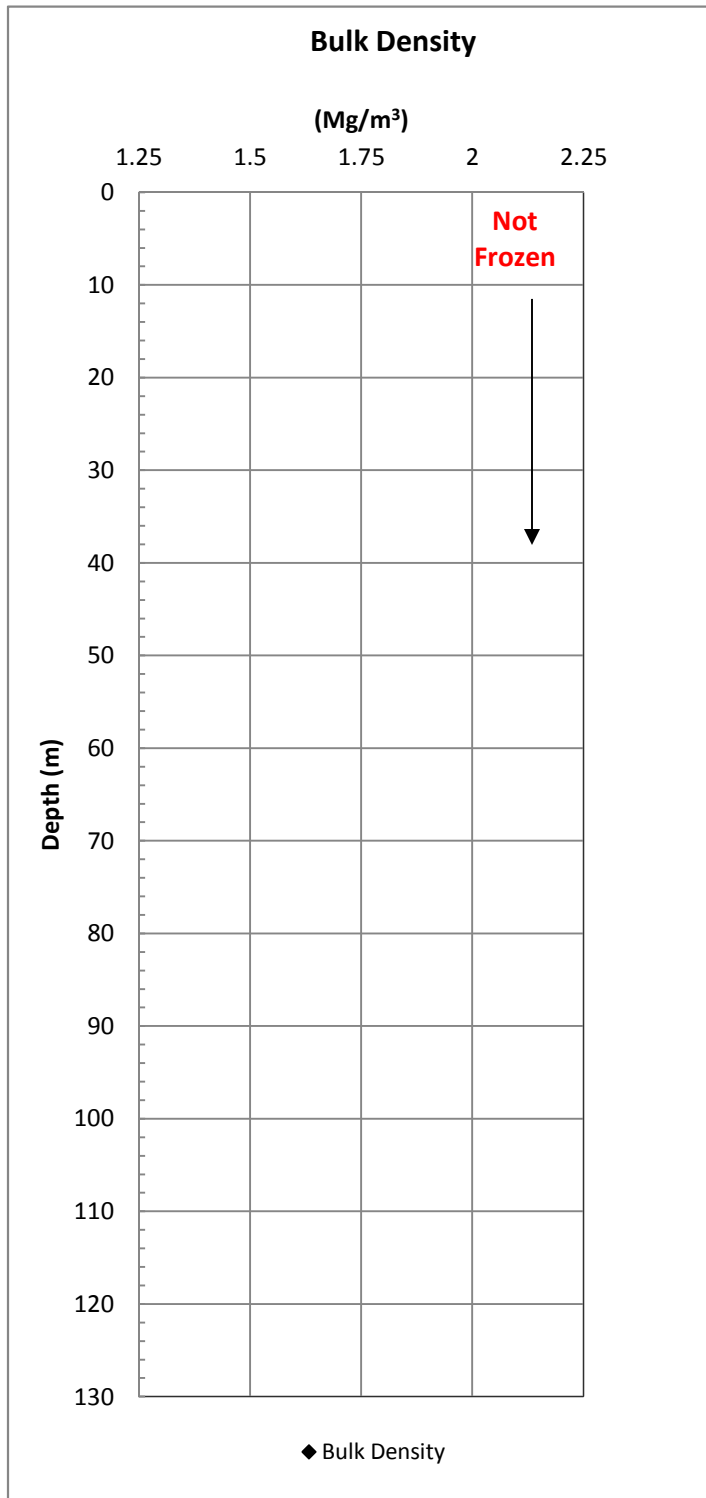


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Figure C.3

10033 Beaufort Data

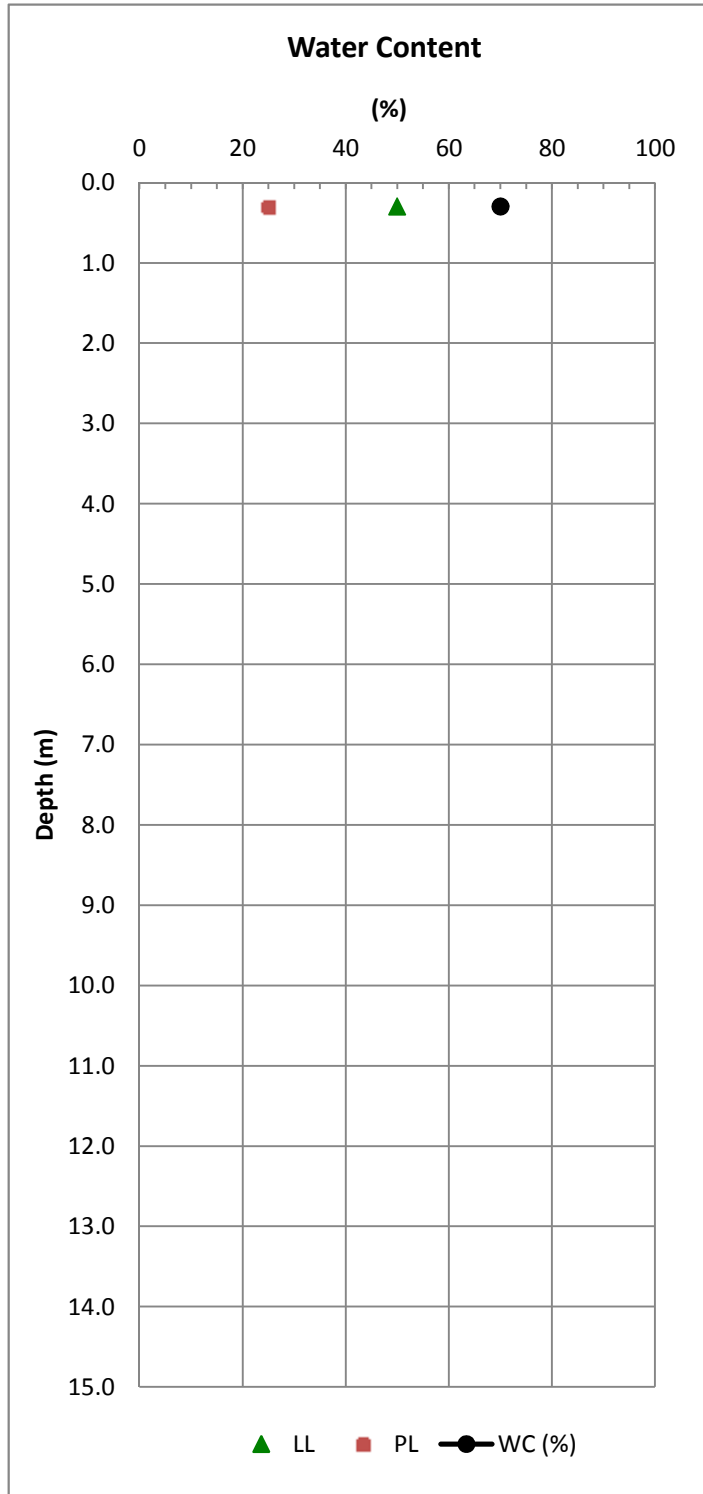
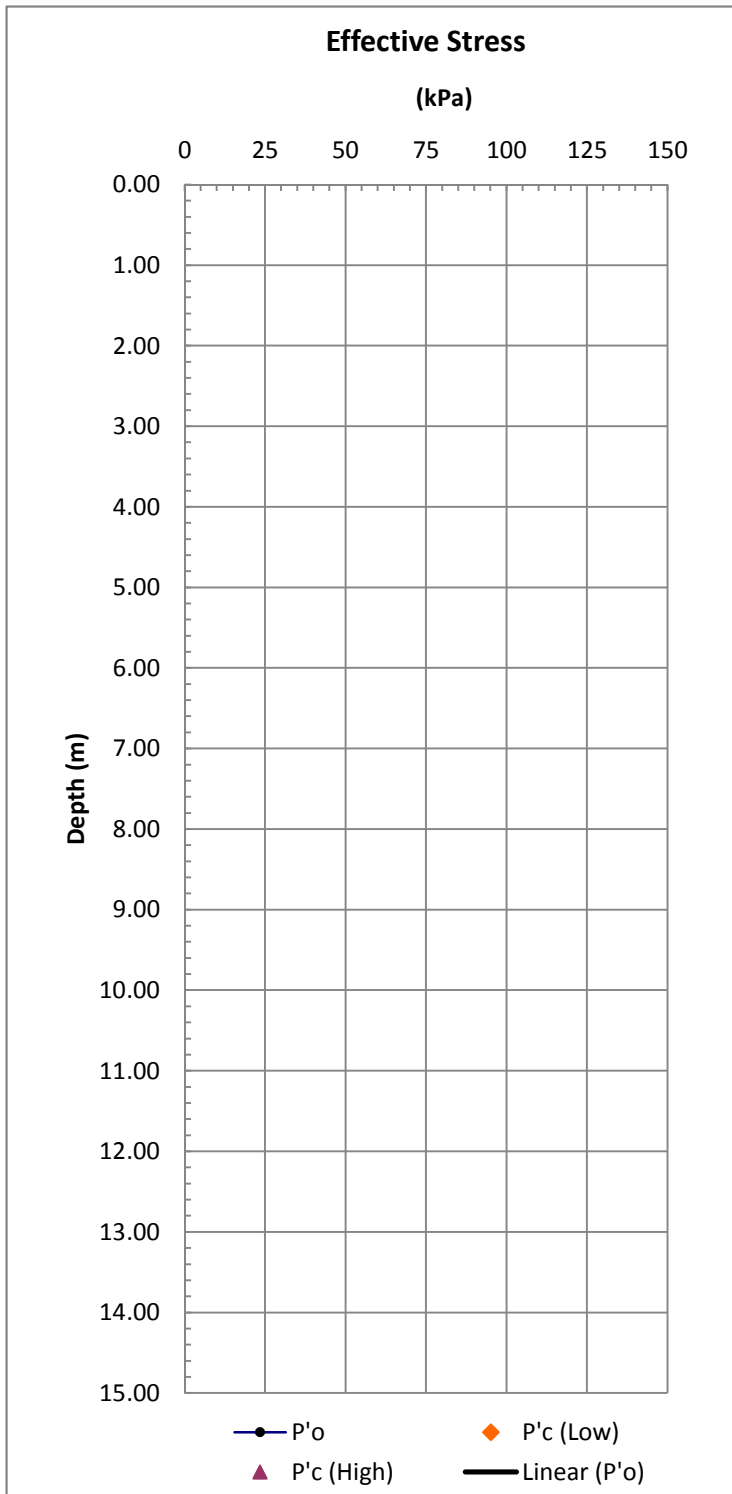
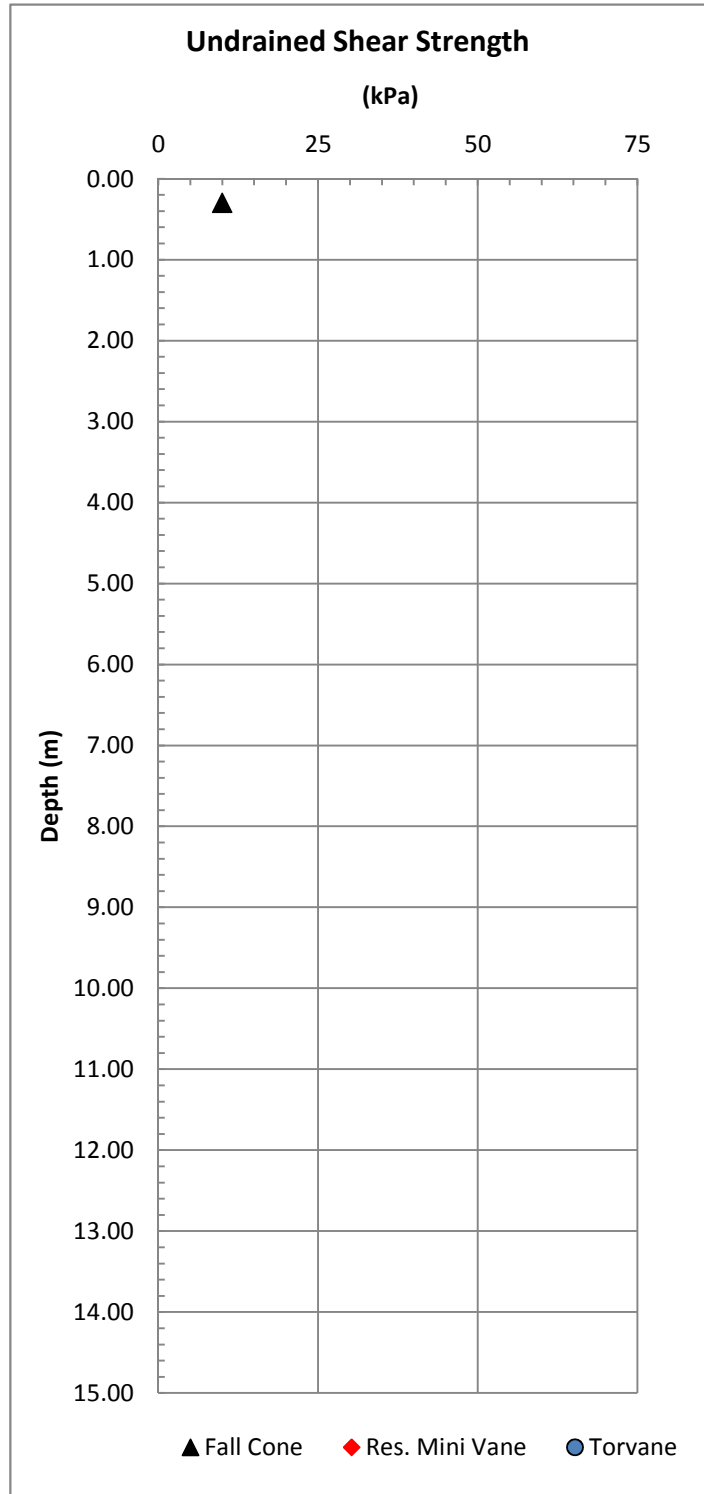
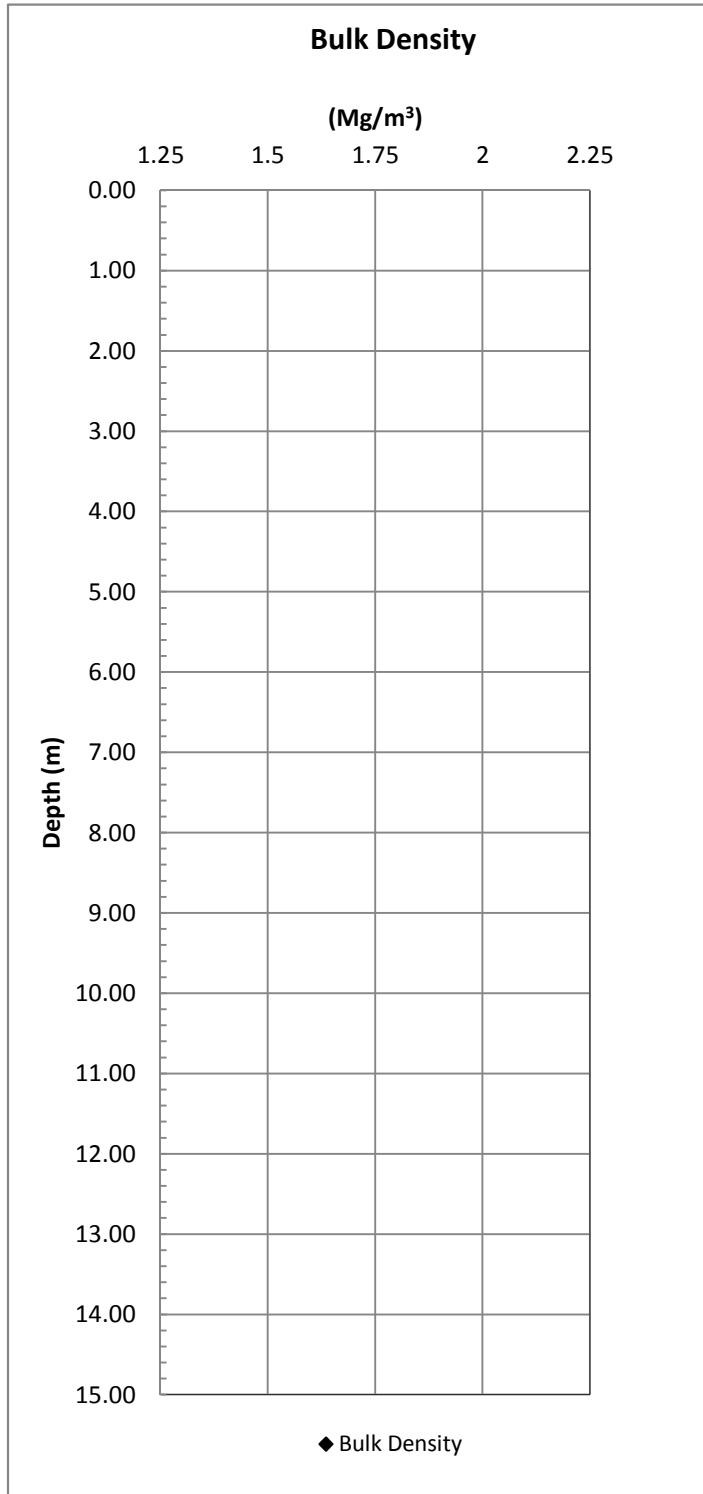


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Figure C.3

10033 Beaufort Data

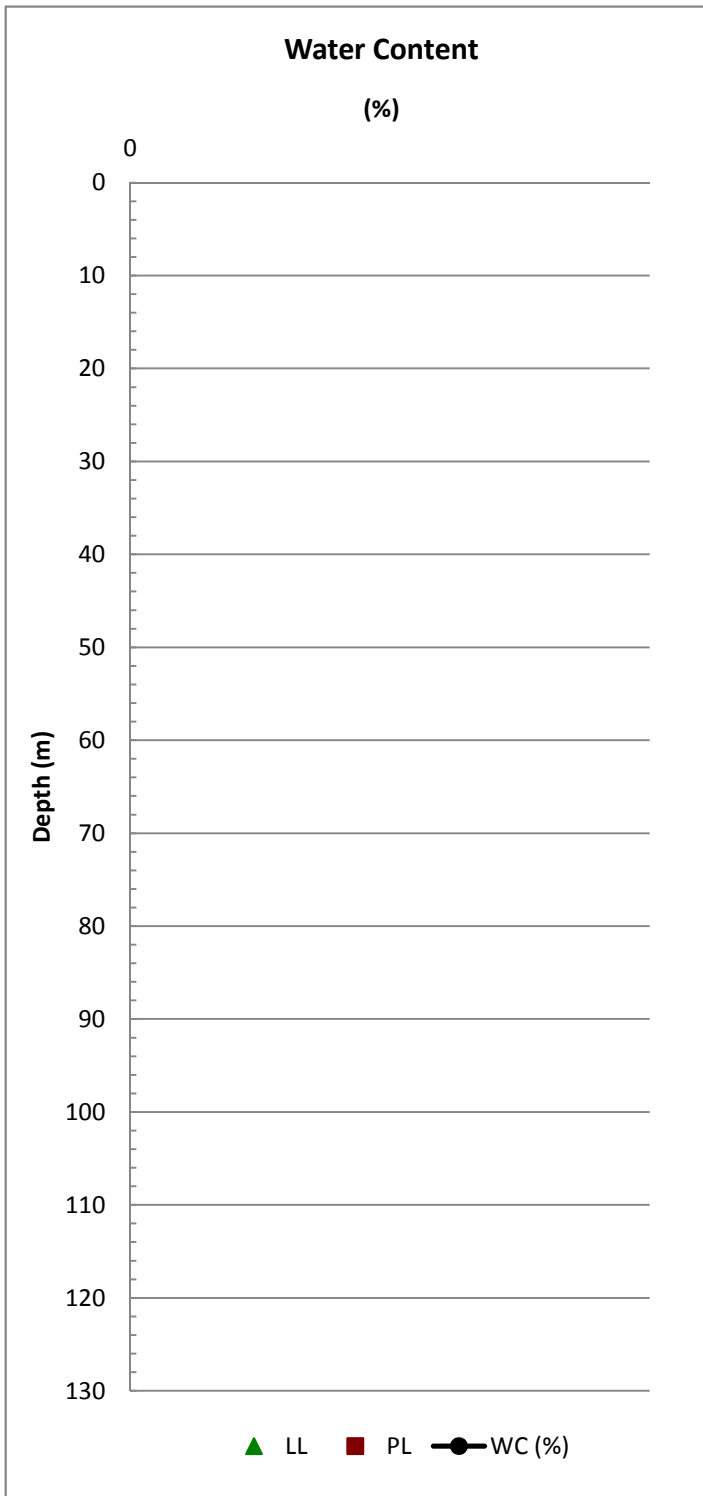
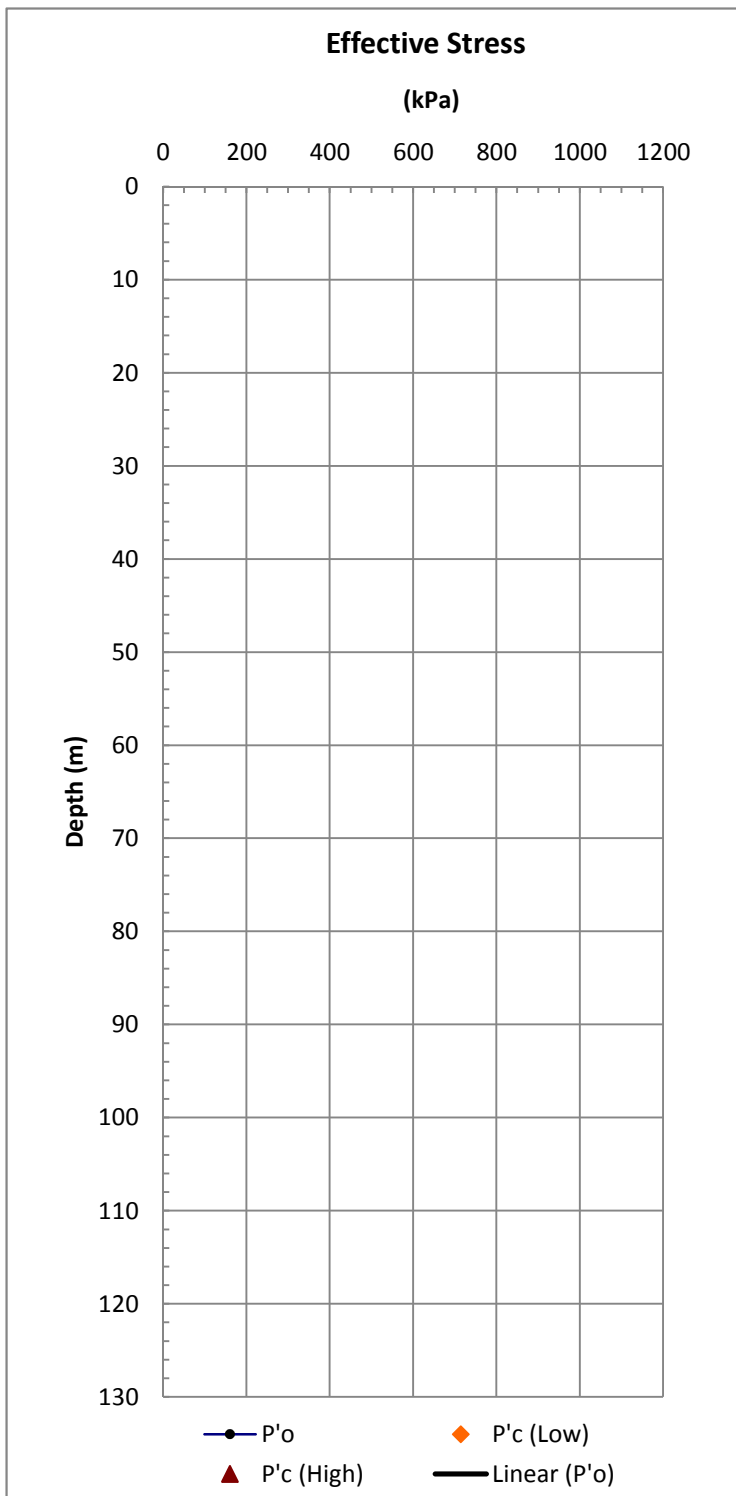
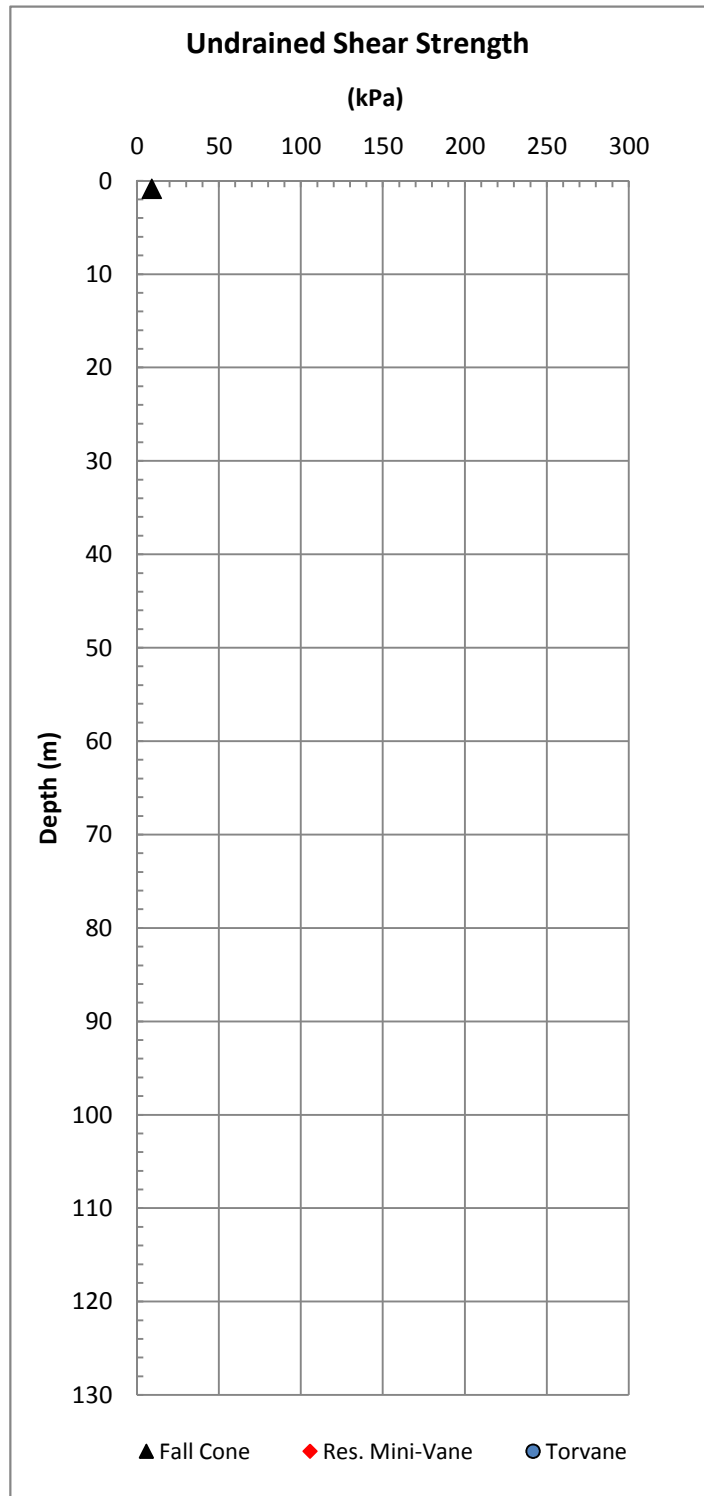
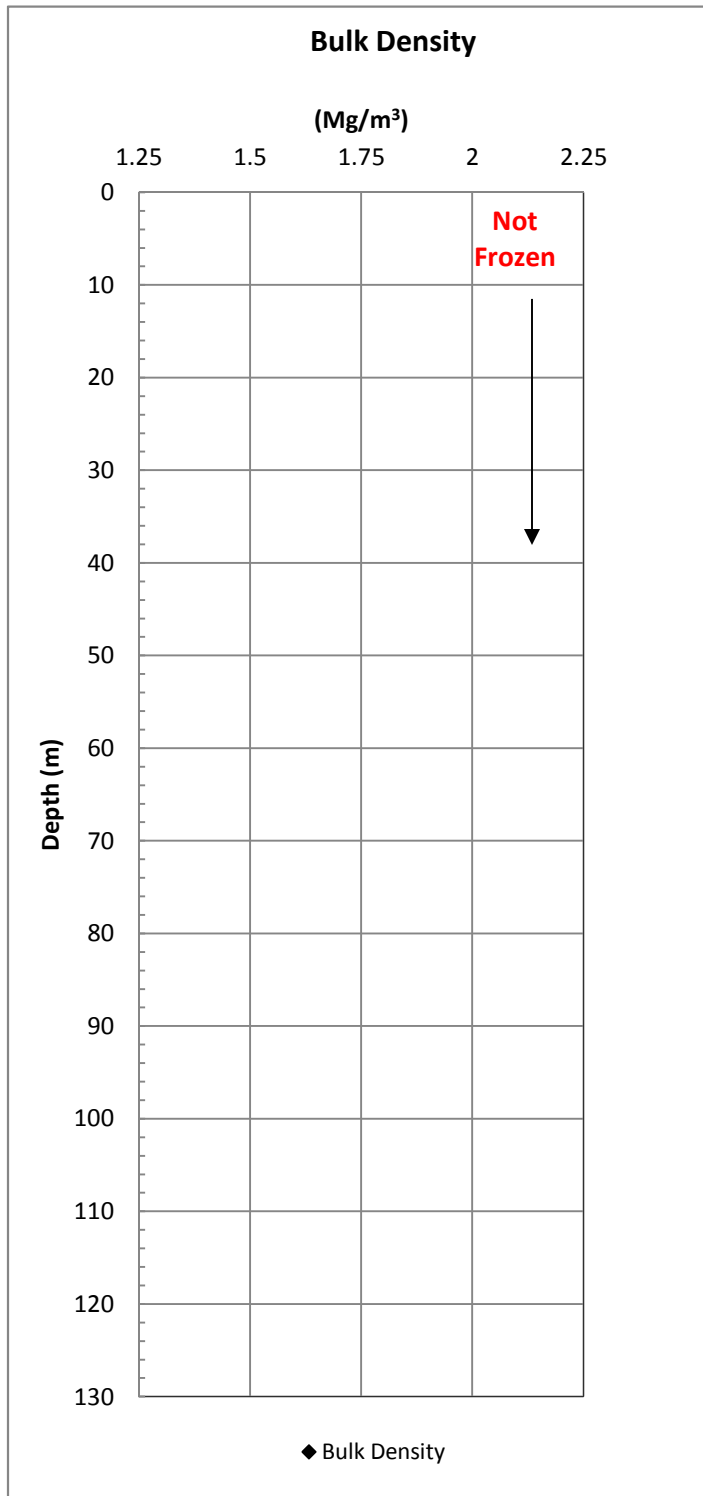


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Figure C.3

10033 Beaufort Data

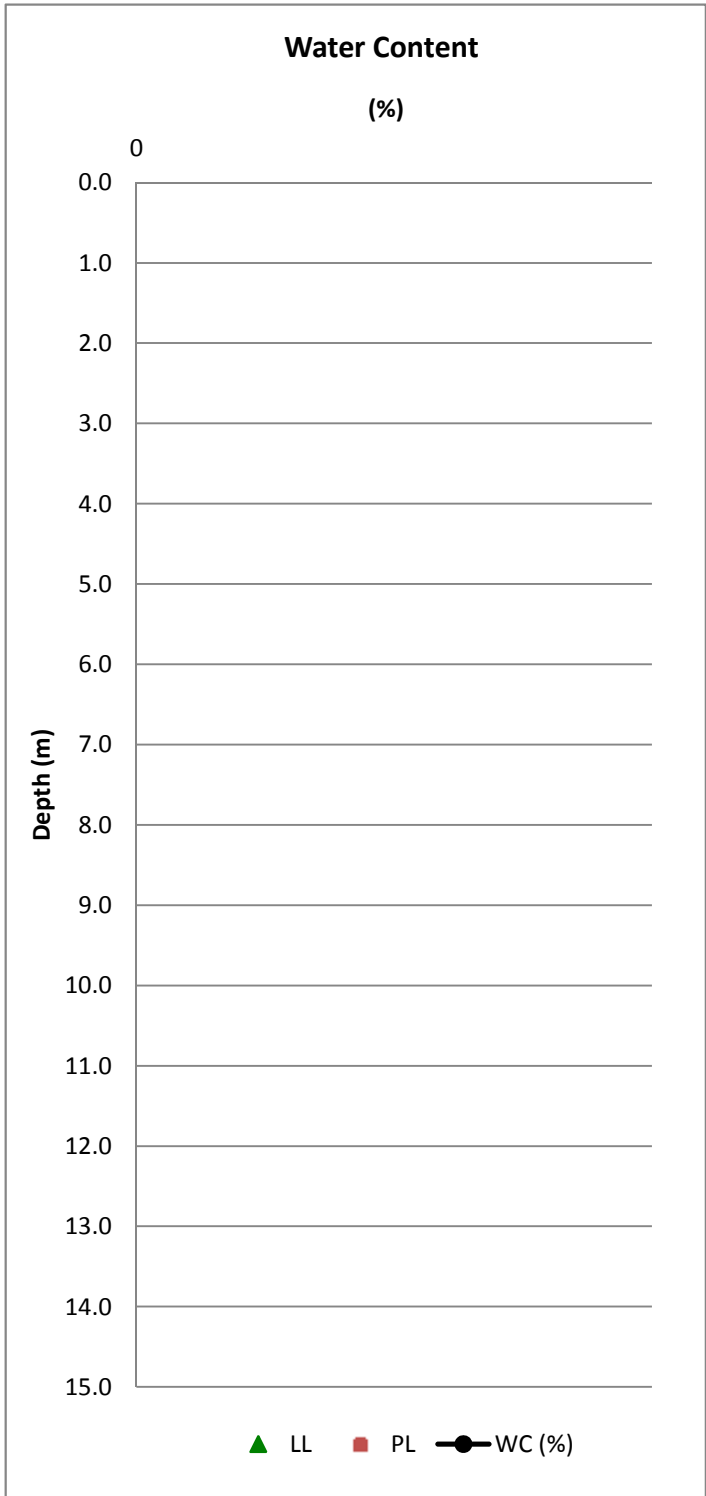
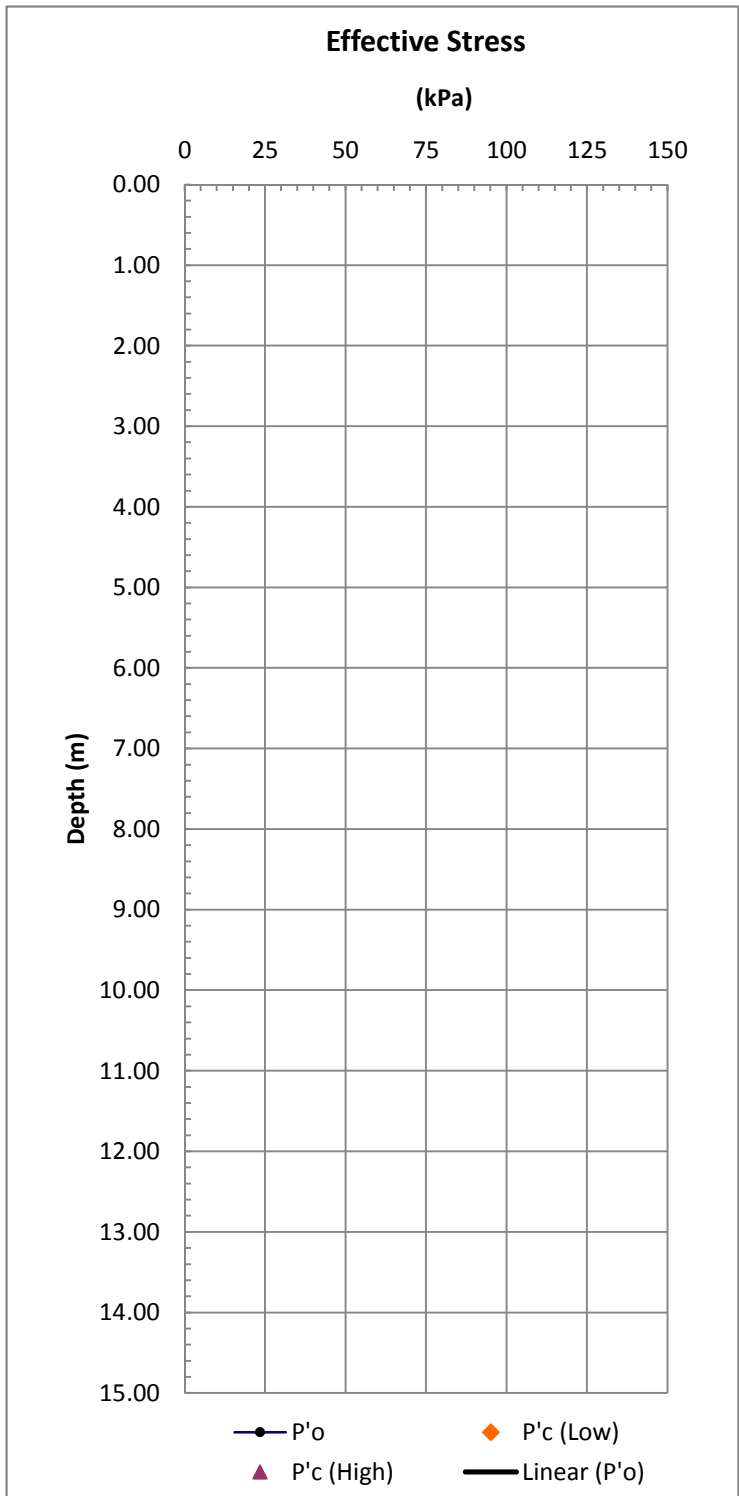
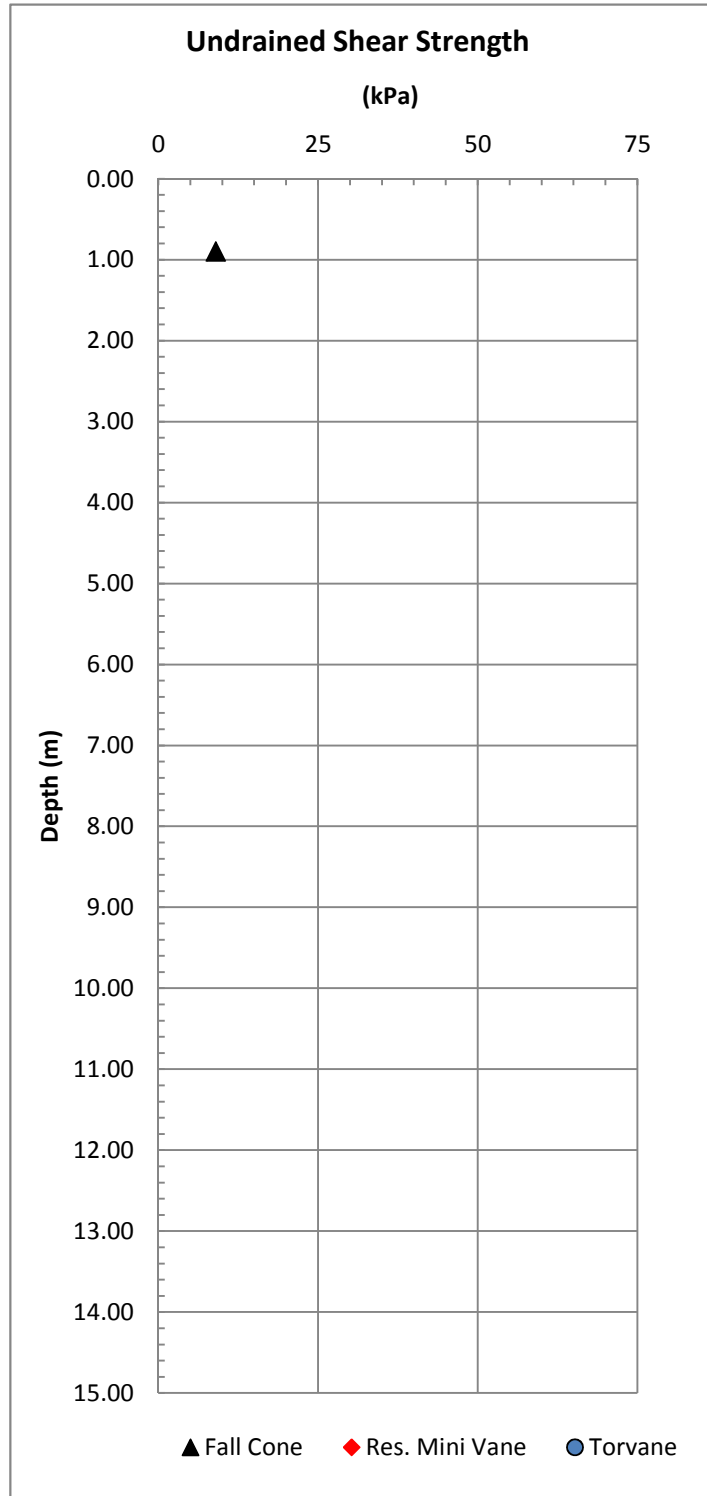
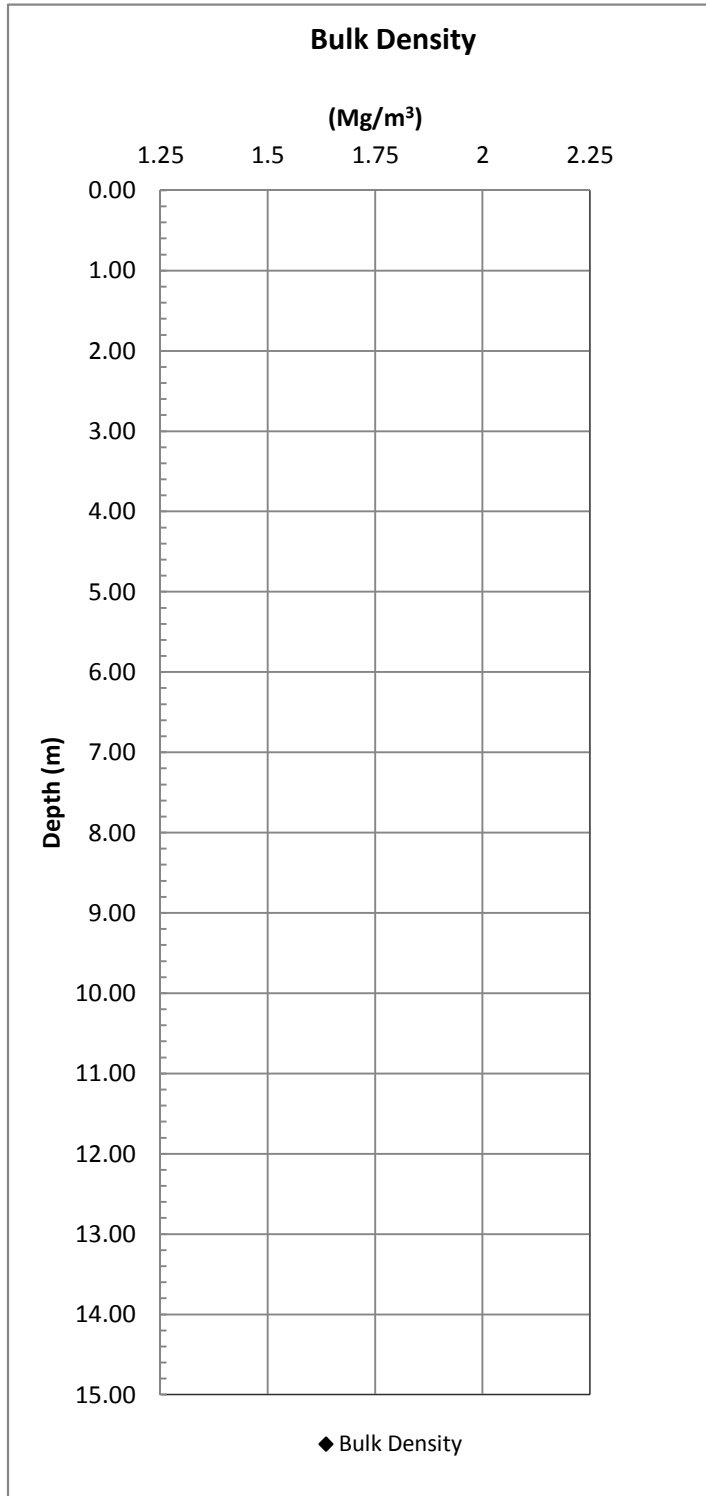


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Figure C.3

10033 Beaufort Data

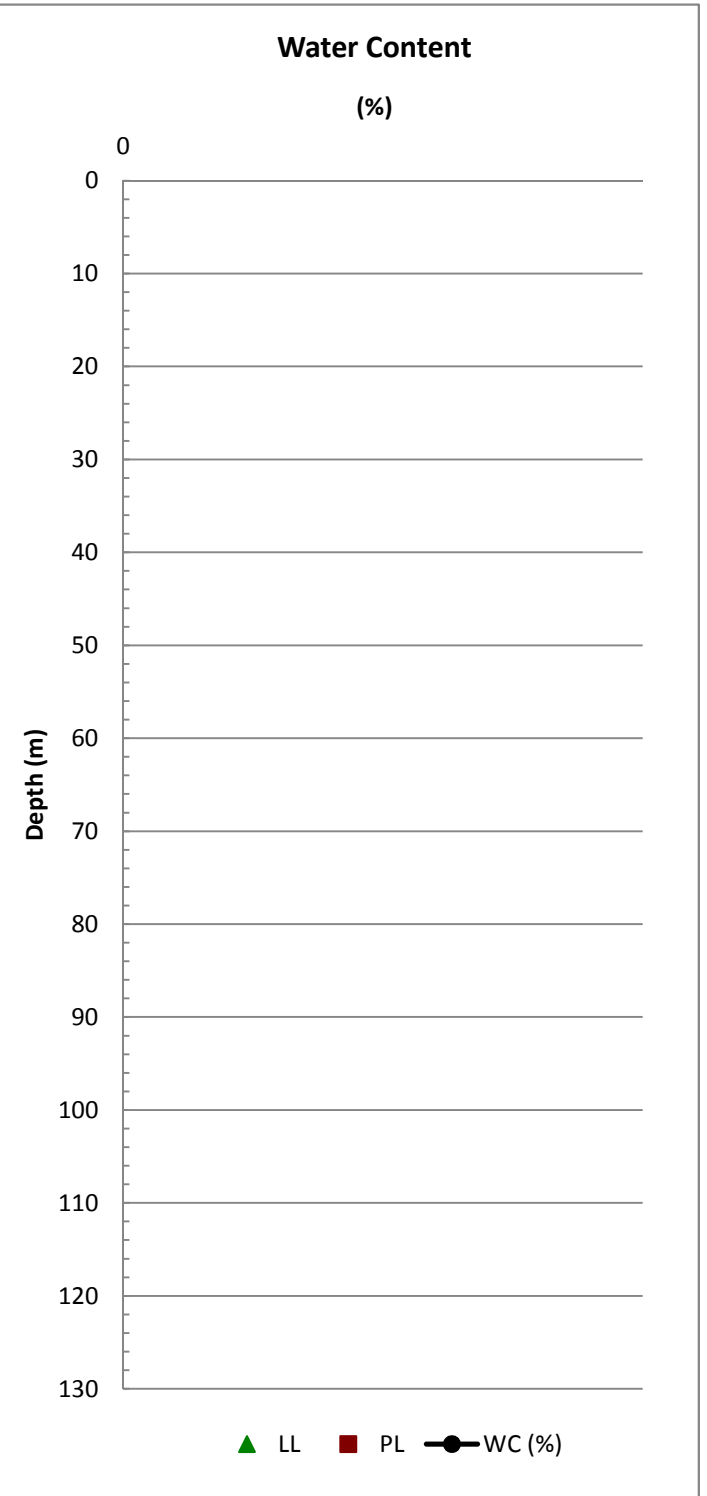
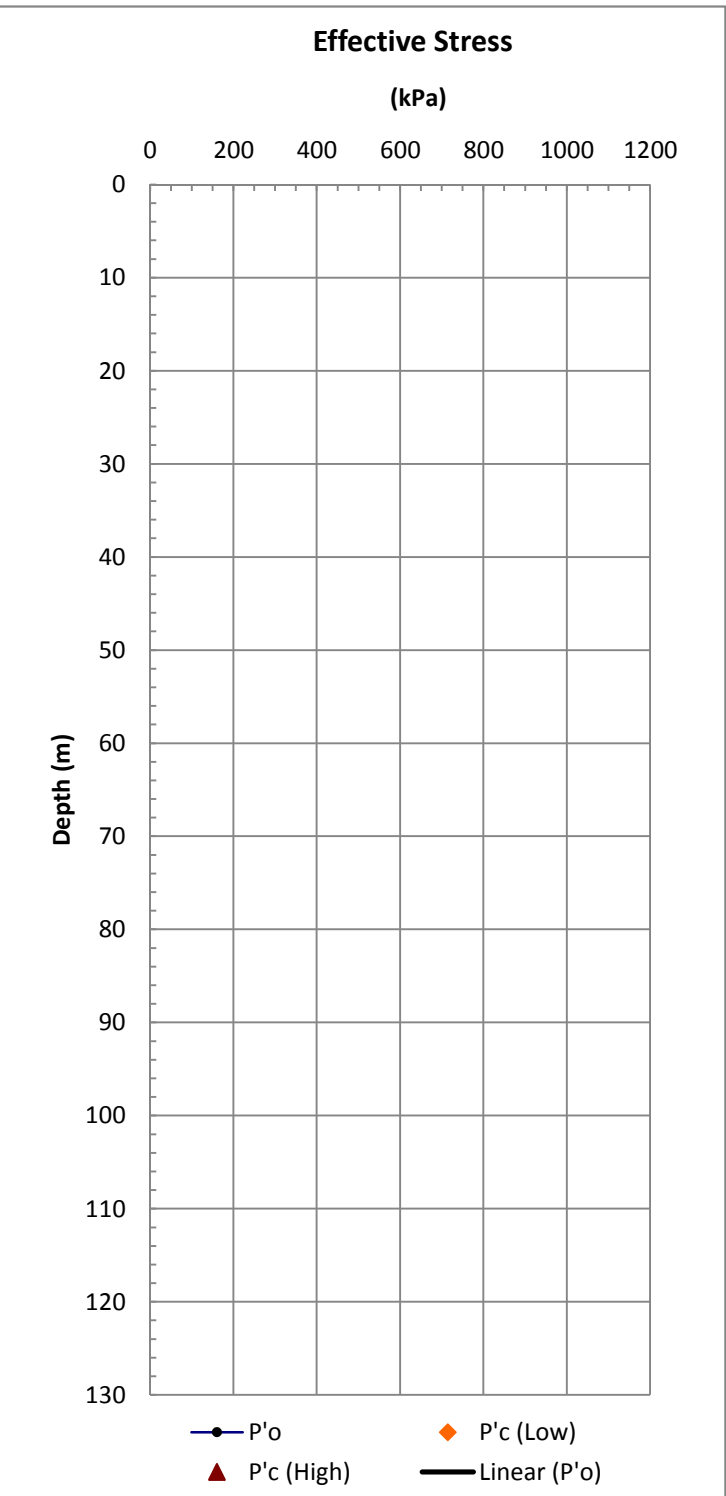
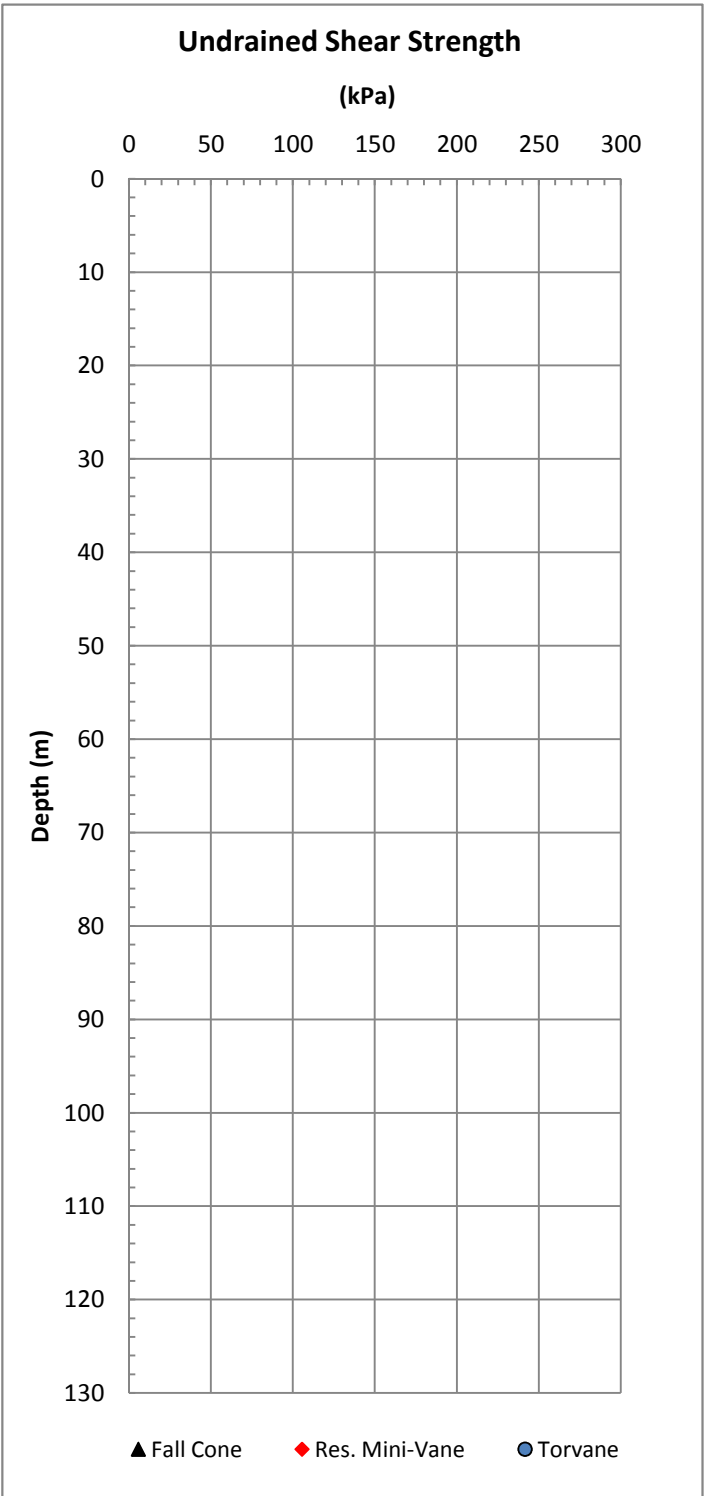
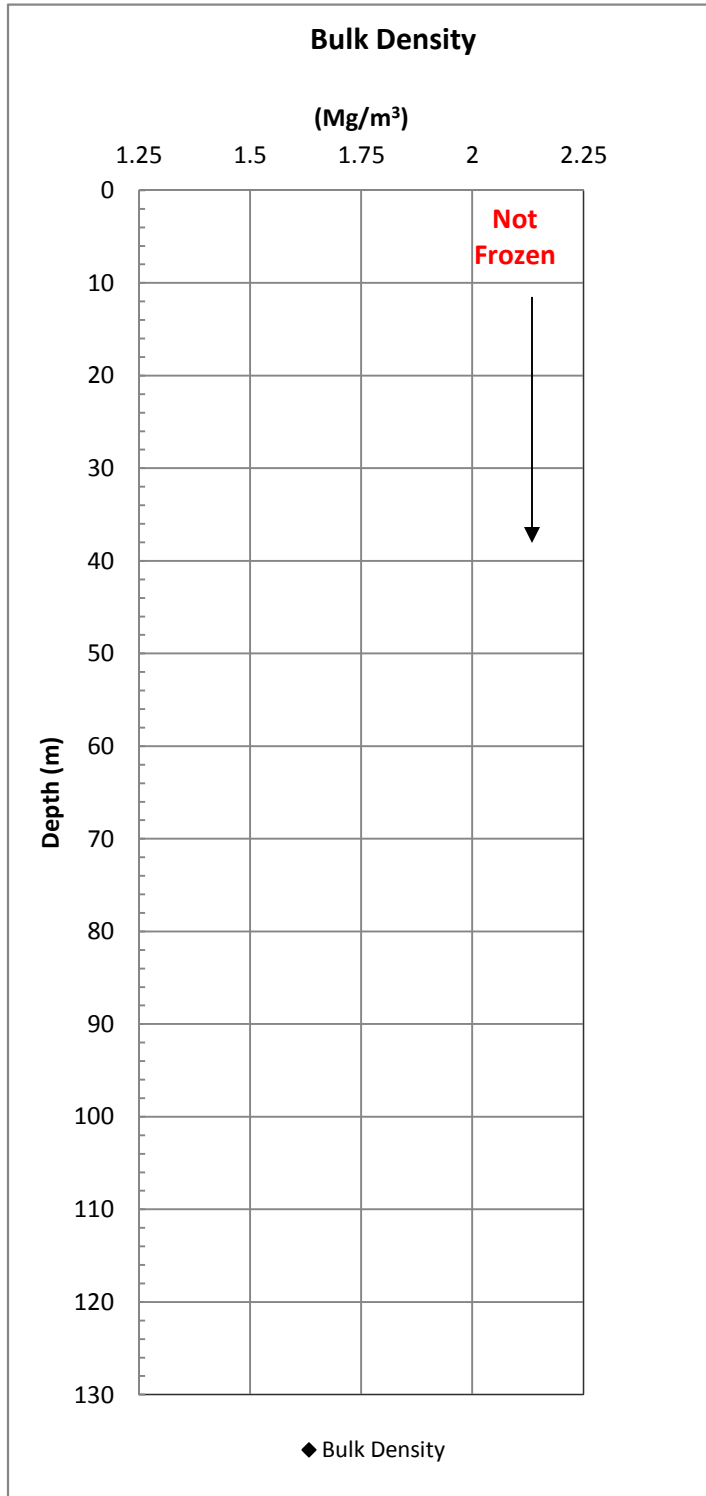


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Figure C.3

10033 Beaufort Data

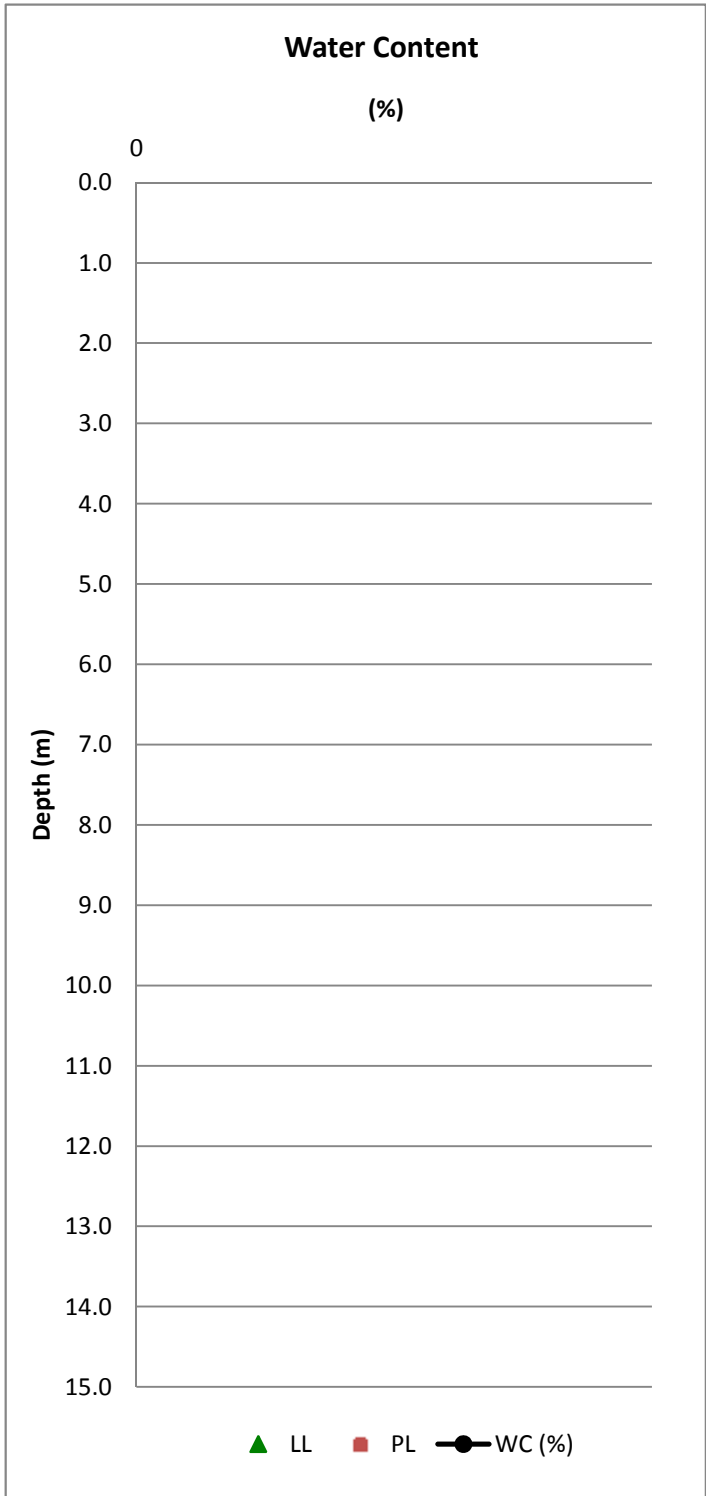
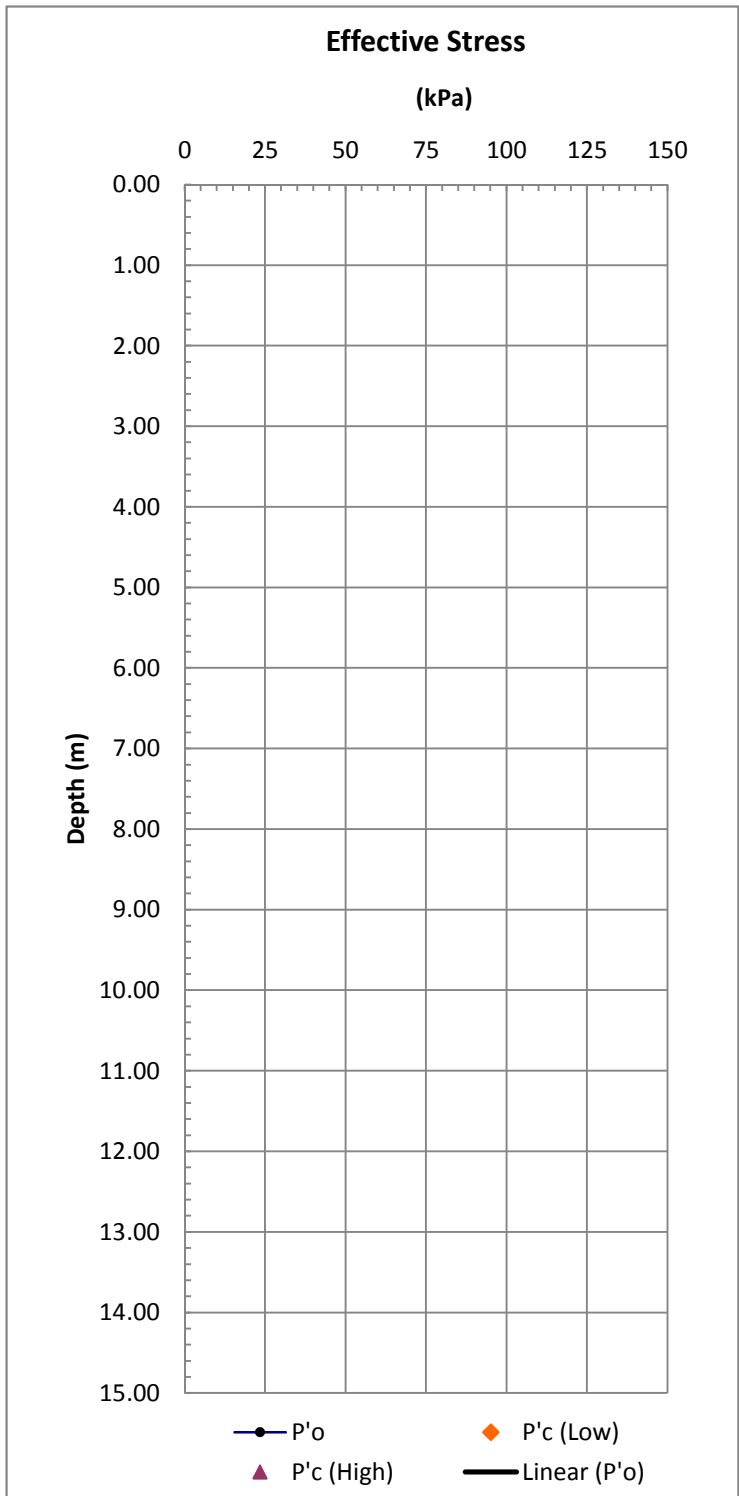
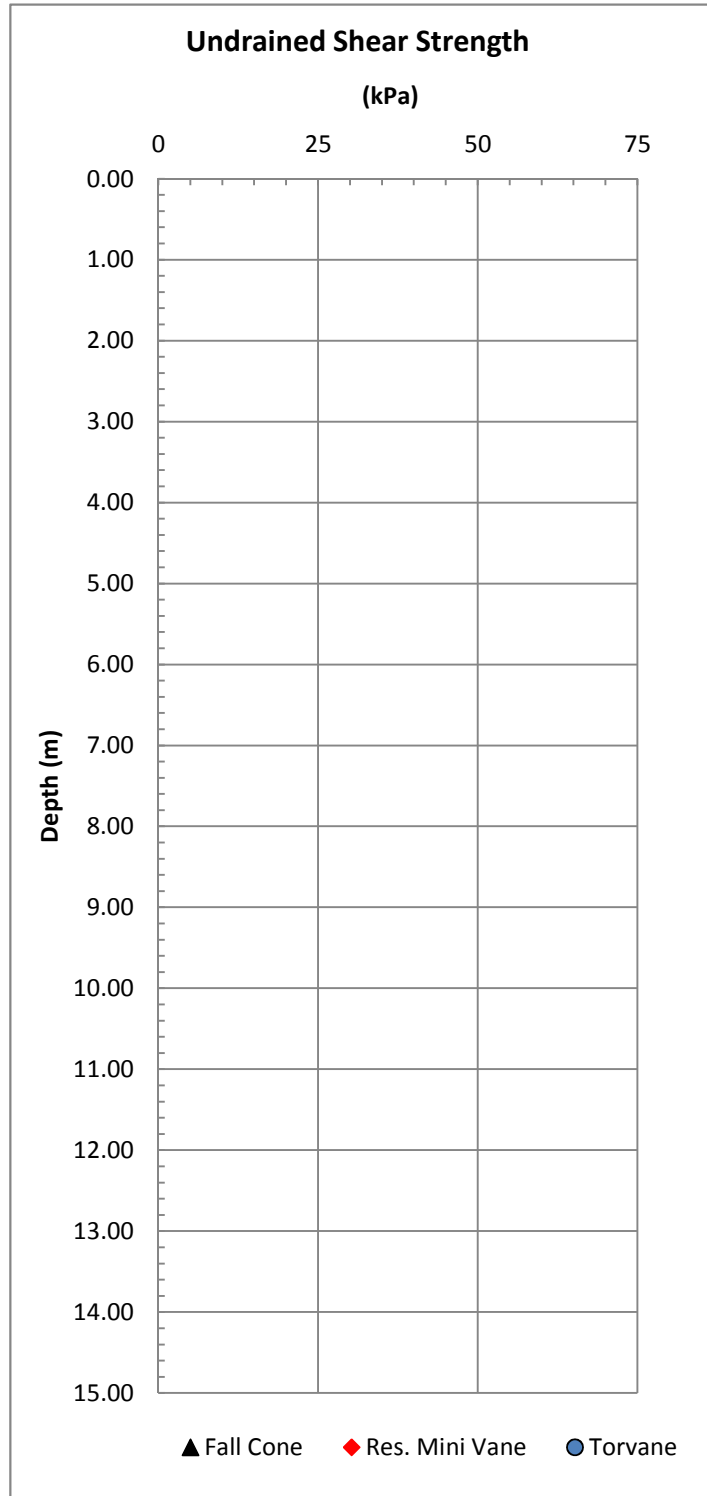
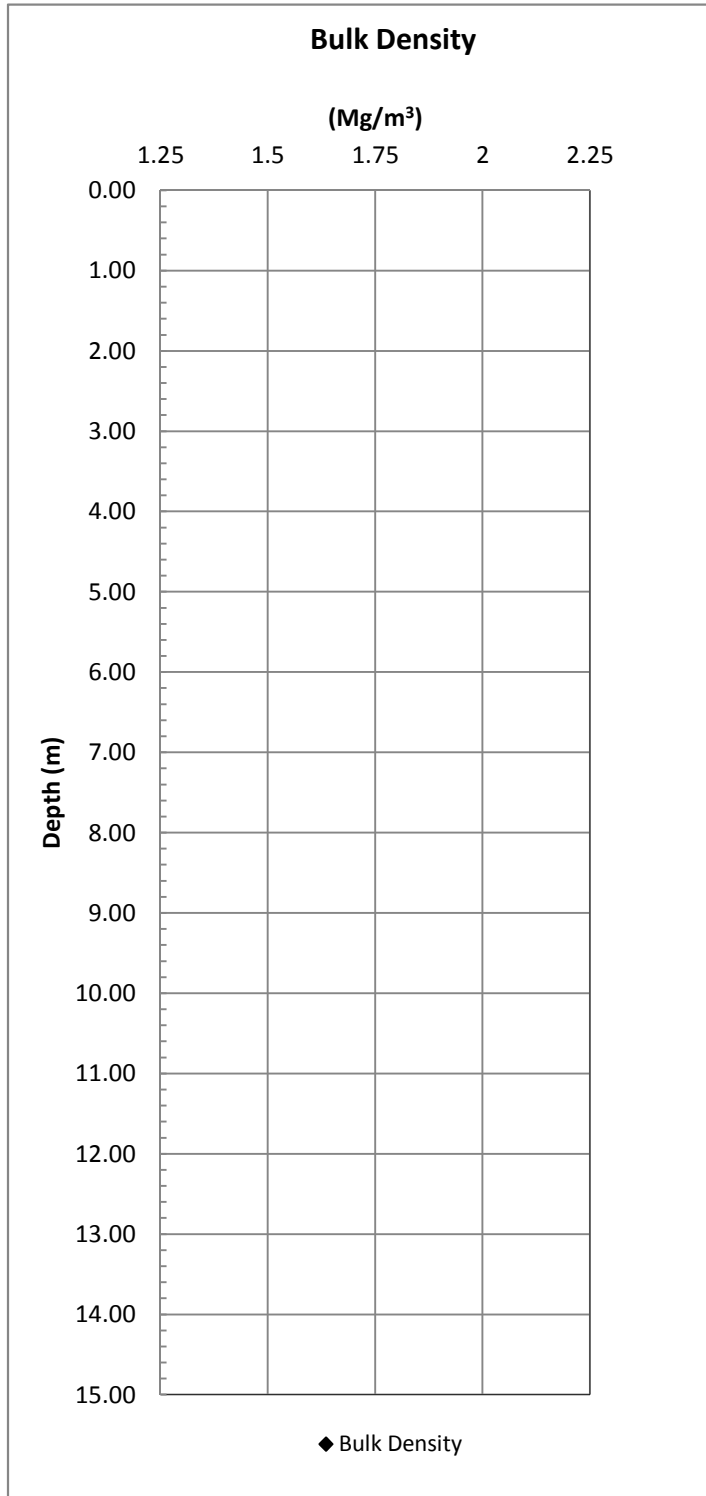


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Figure C.3

10033 Beaufort Data

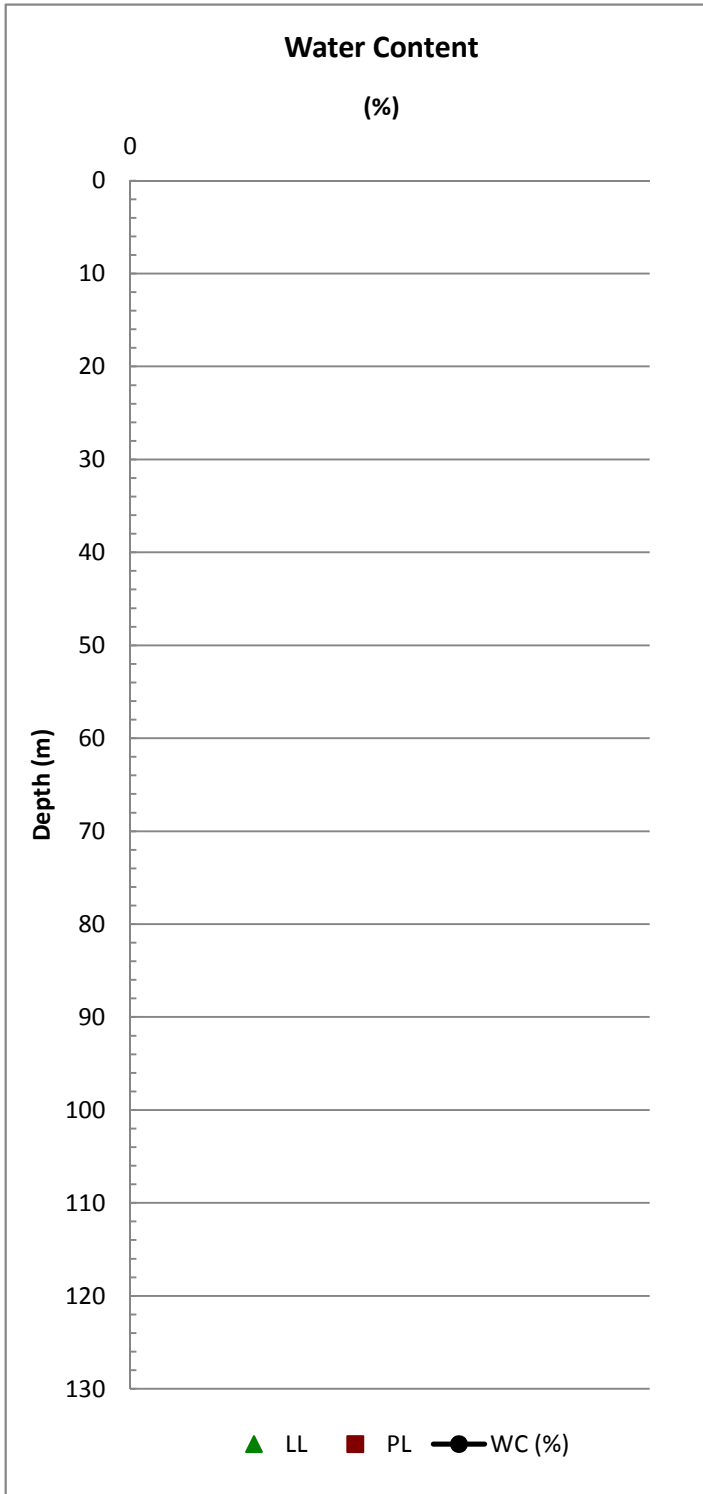
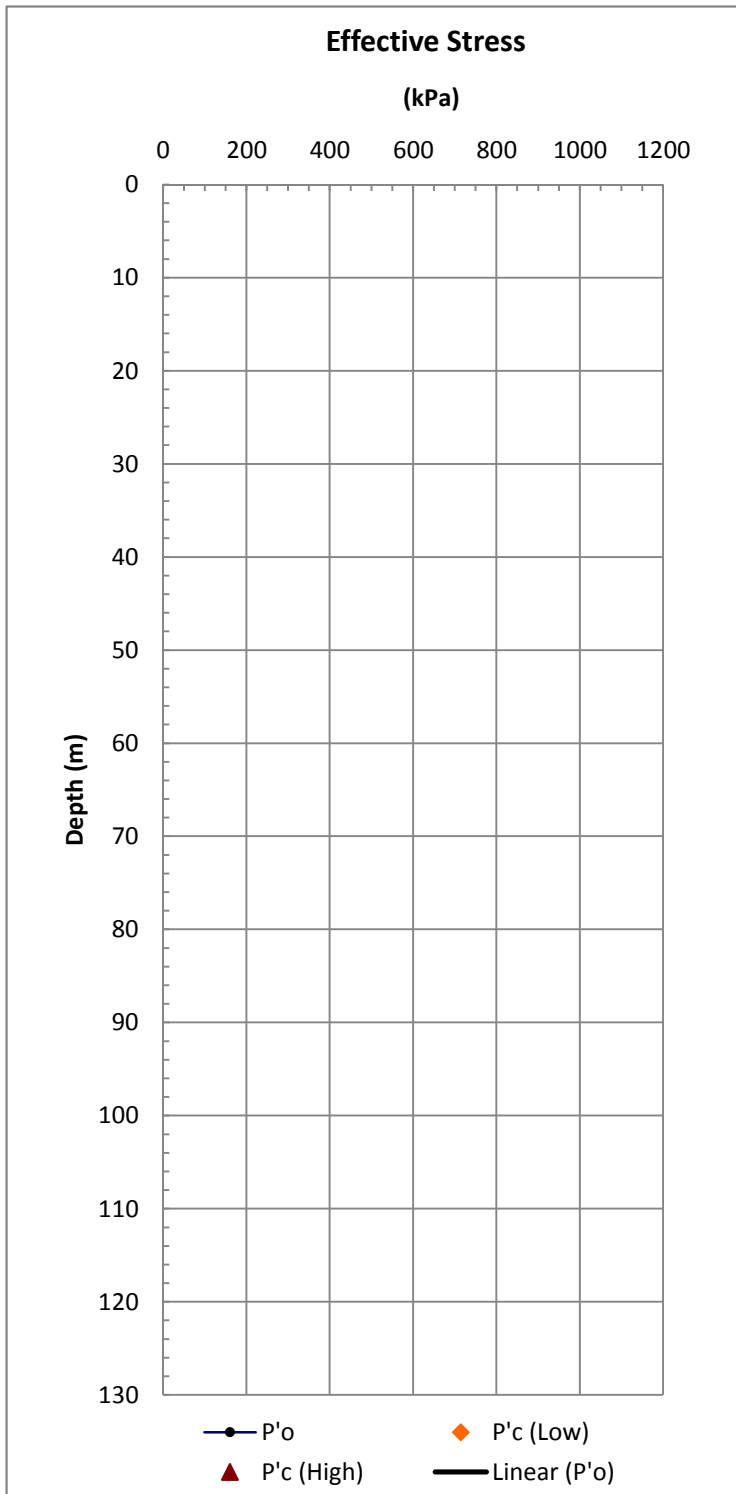
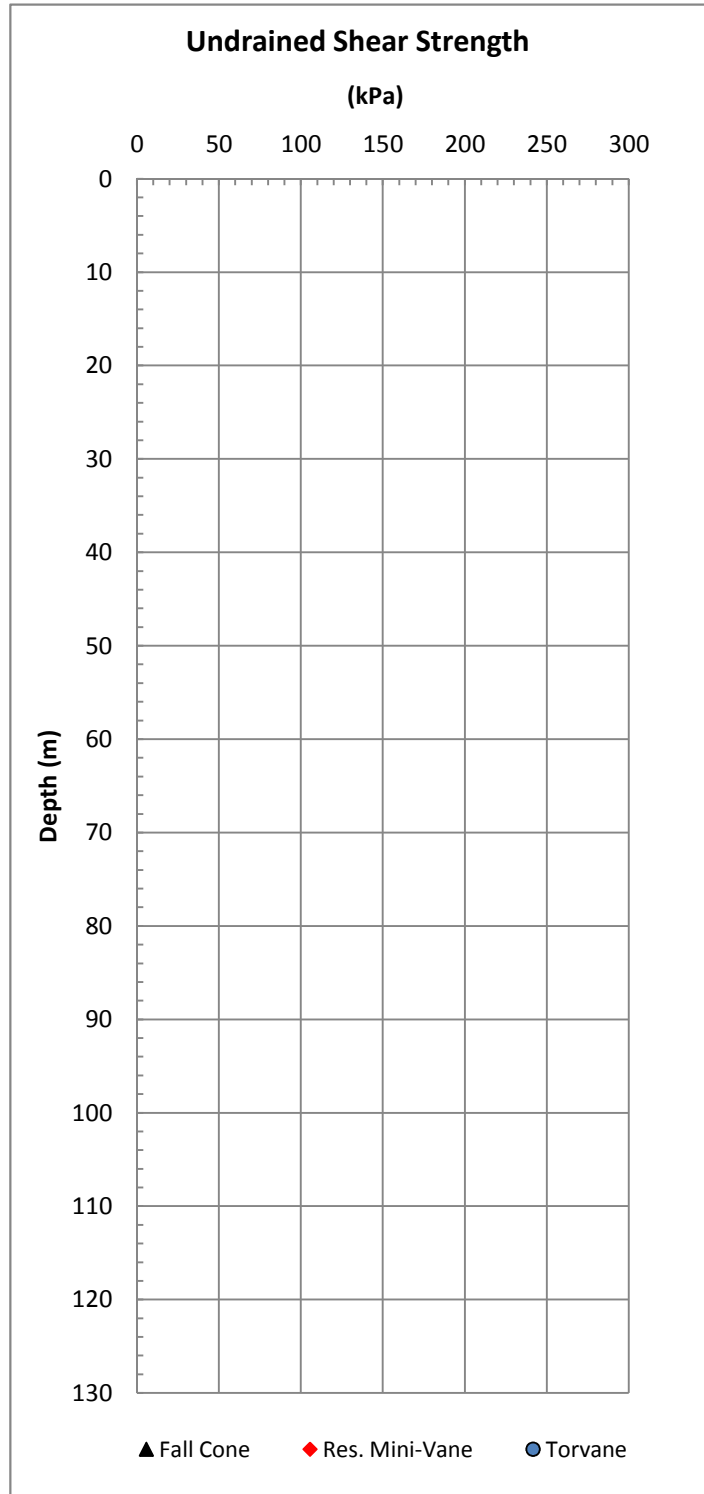
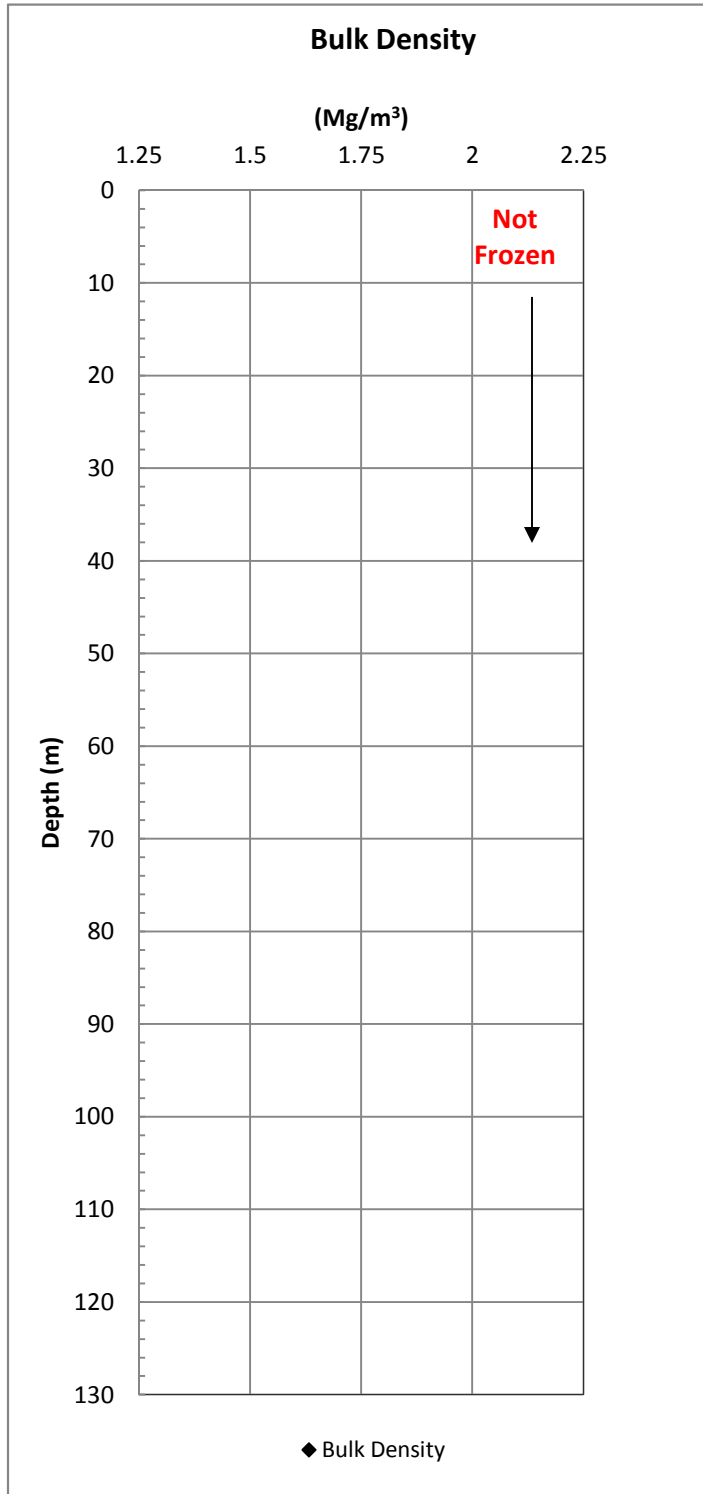


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Figure C.3

10033 Beaufort Data

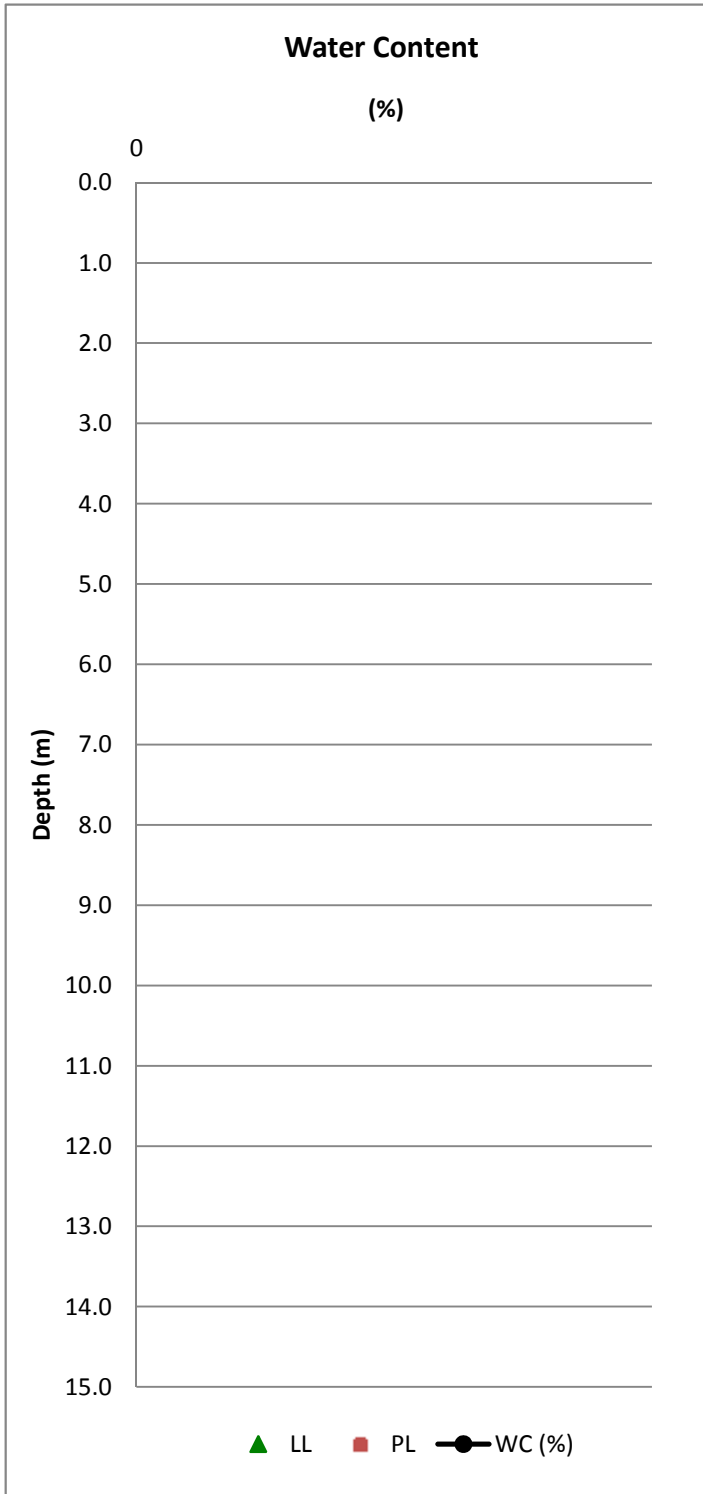
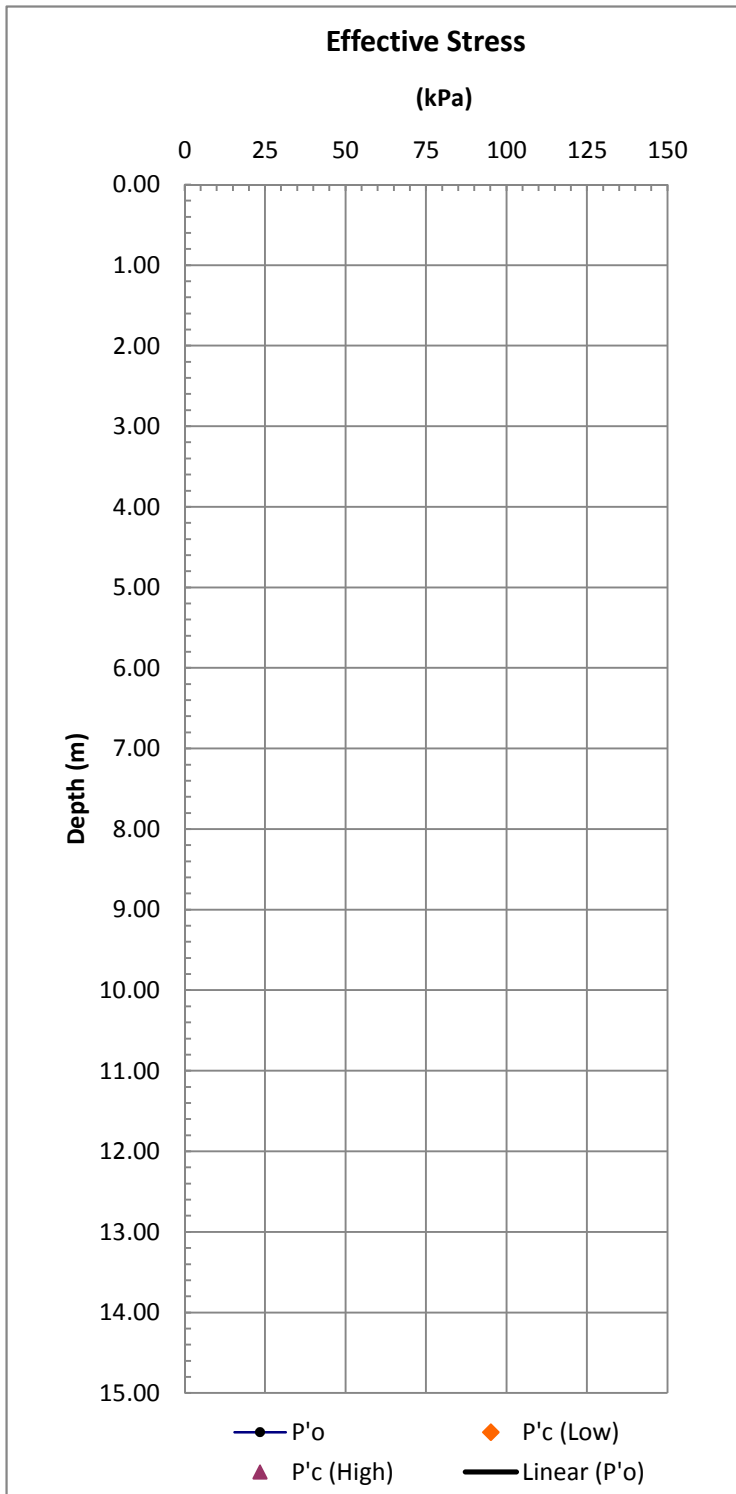
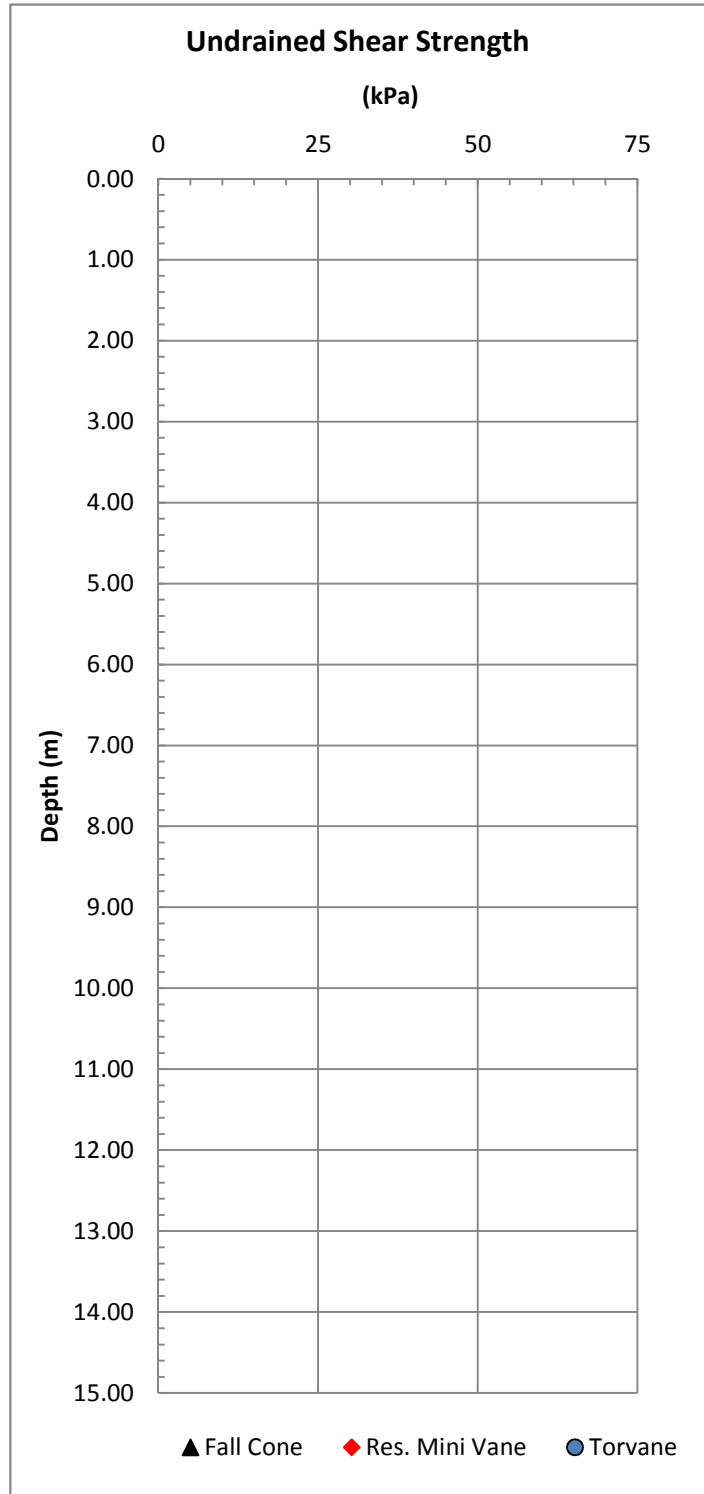
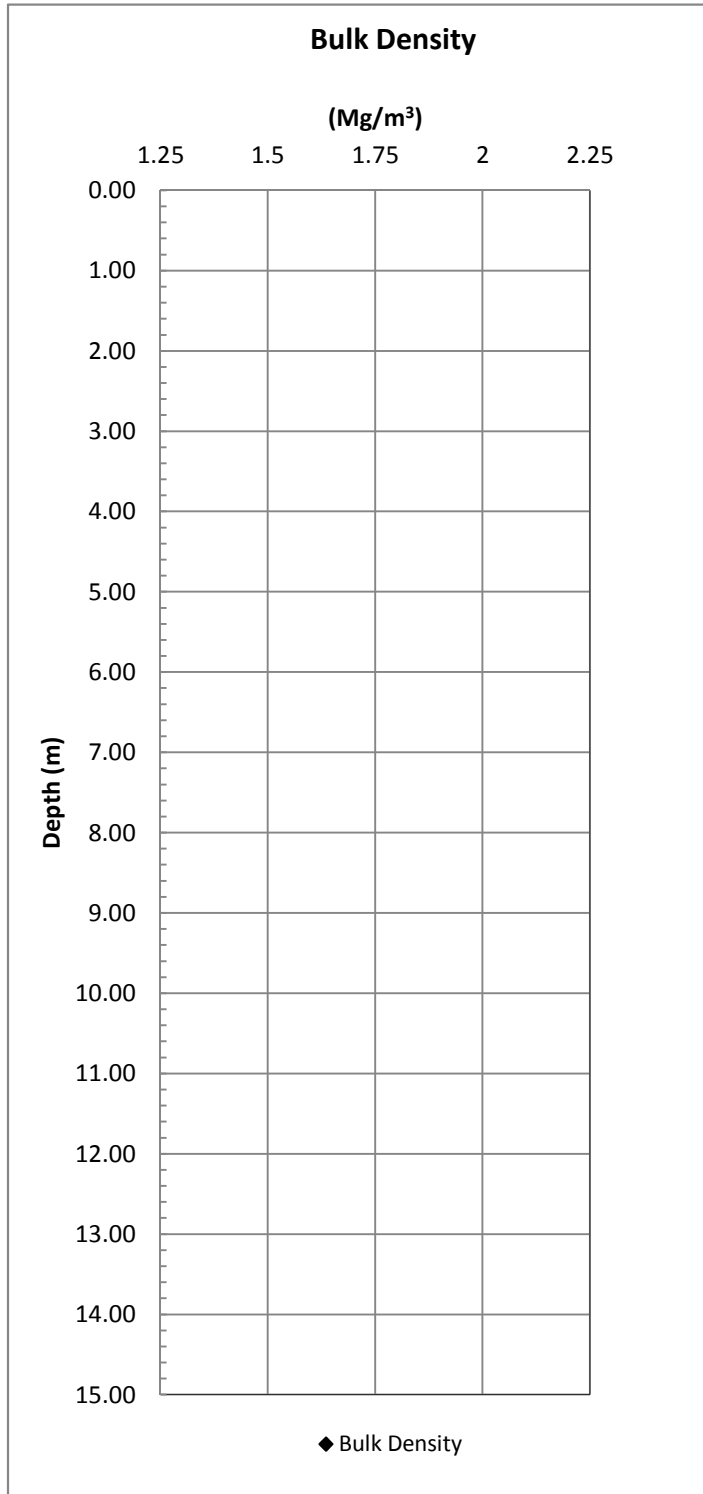


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Figure C.3

10033 Beaufort Data

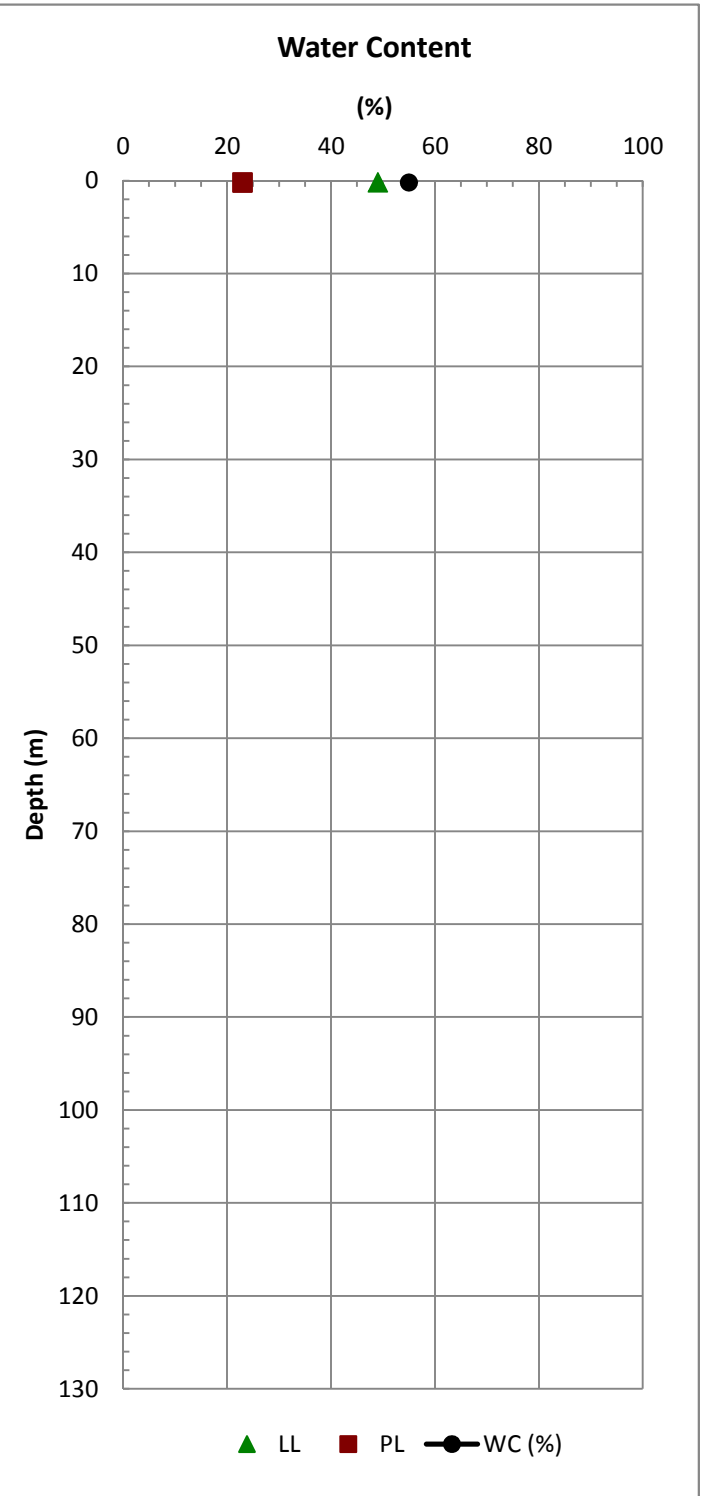
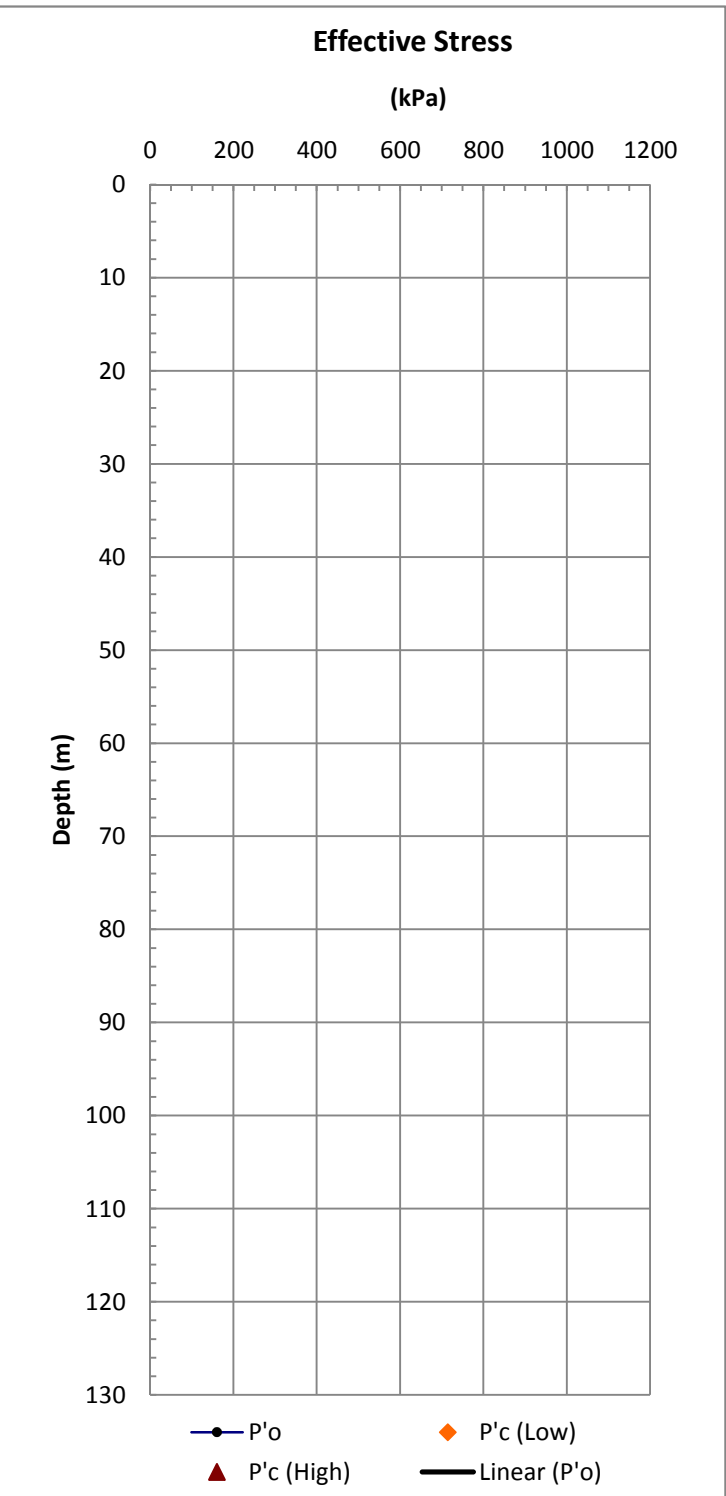
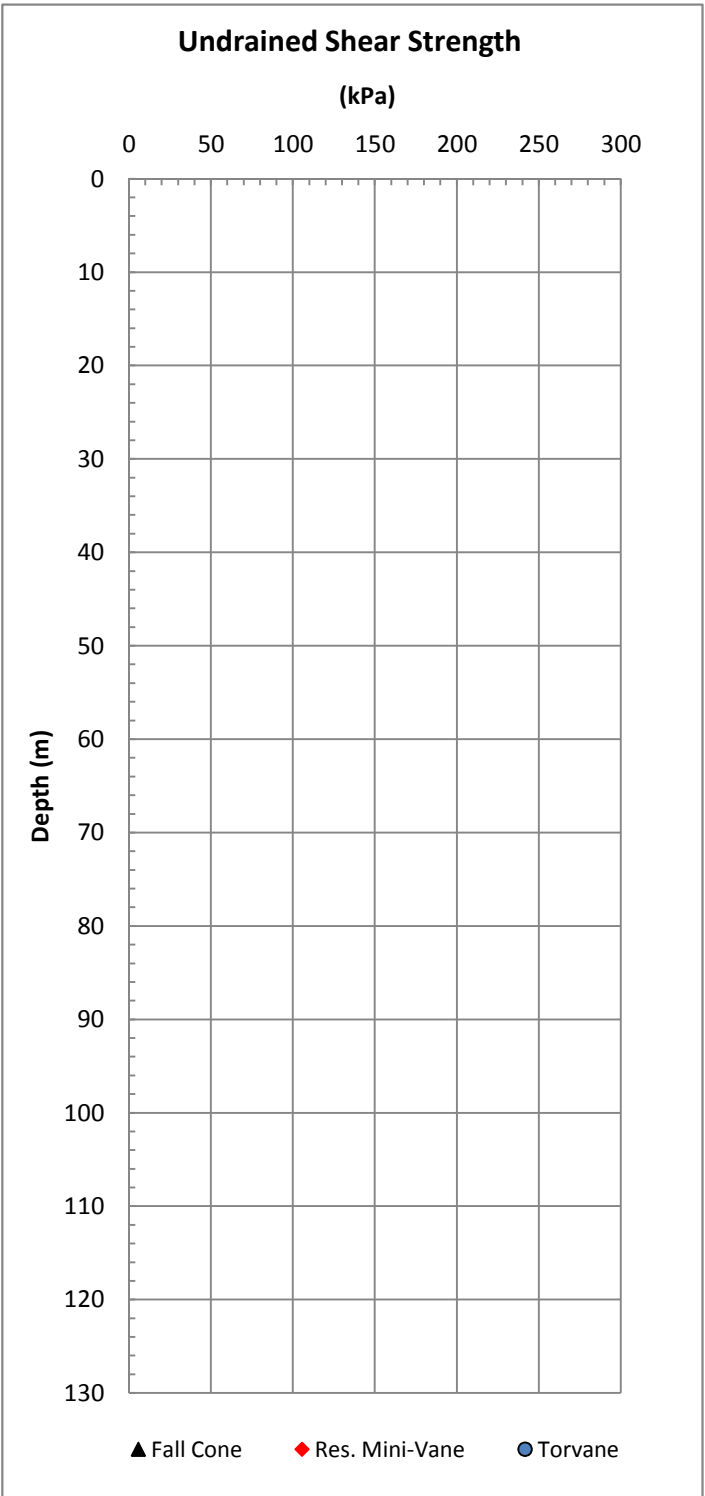
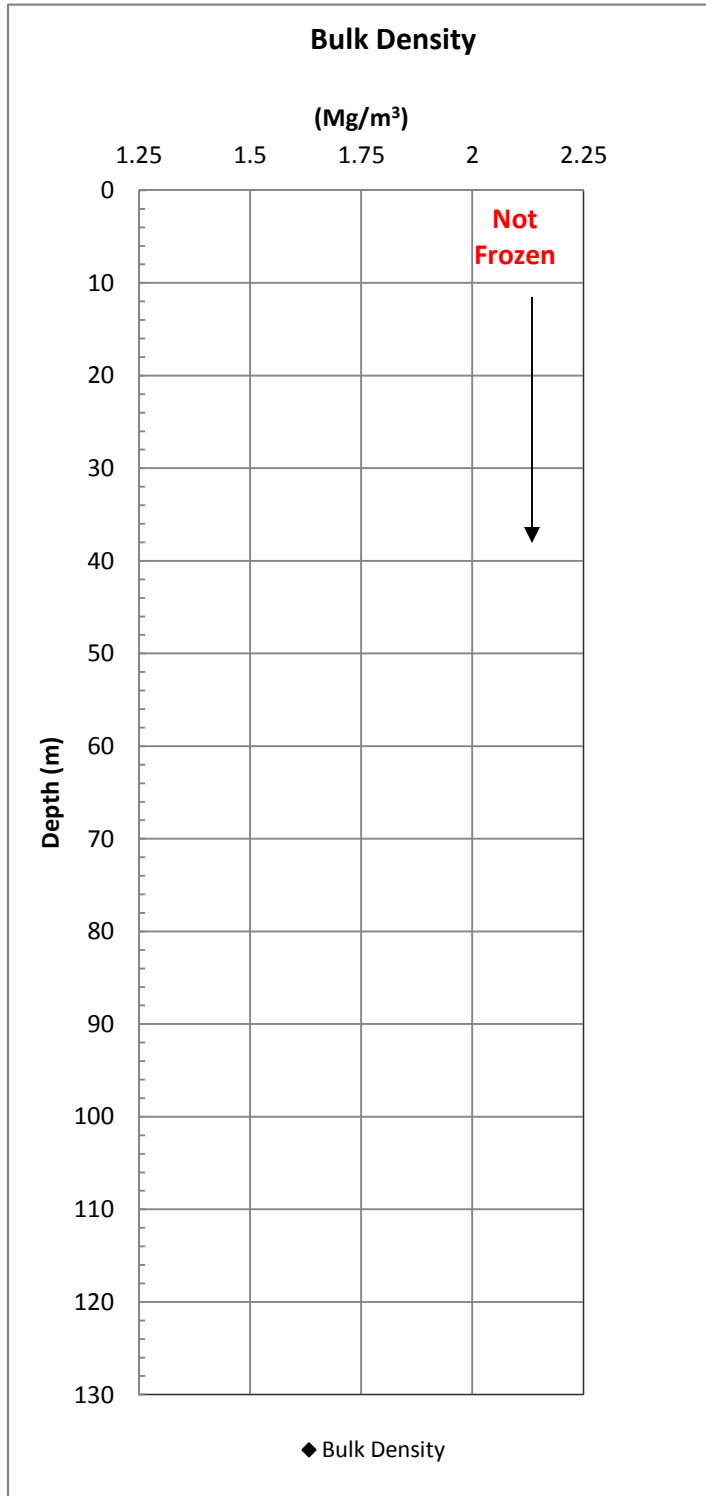


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Figure C.3

10033 Beaufort Data

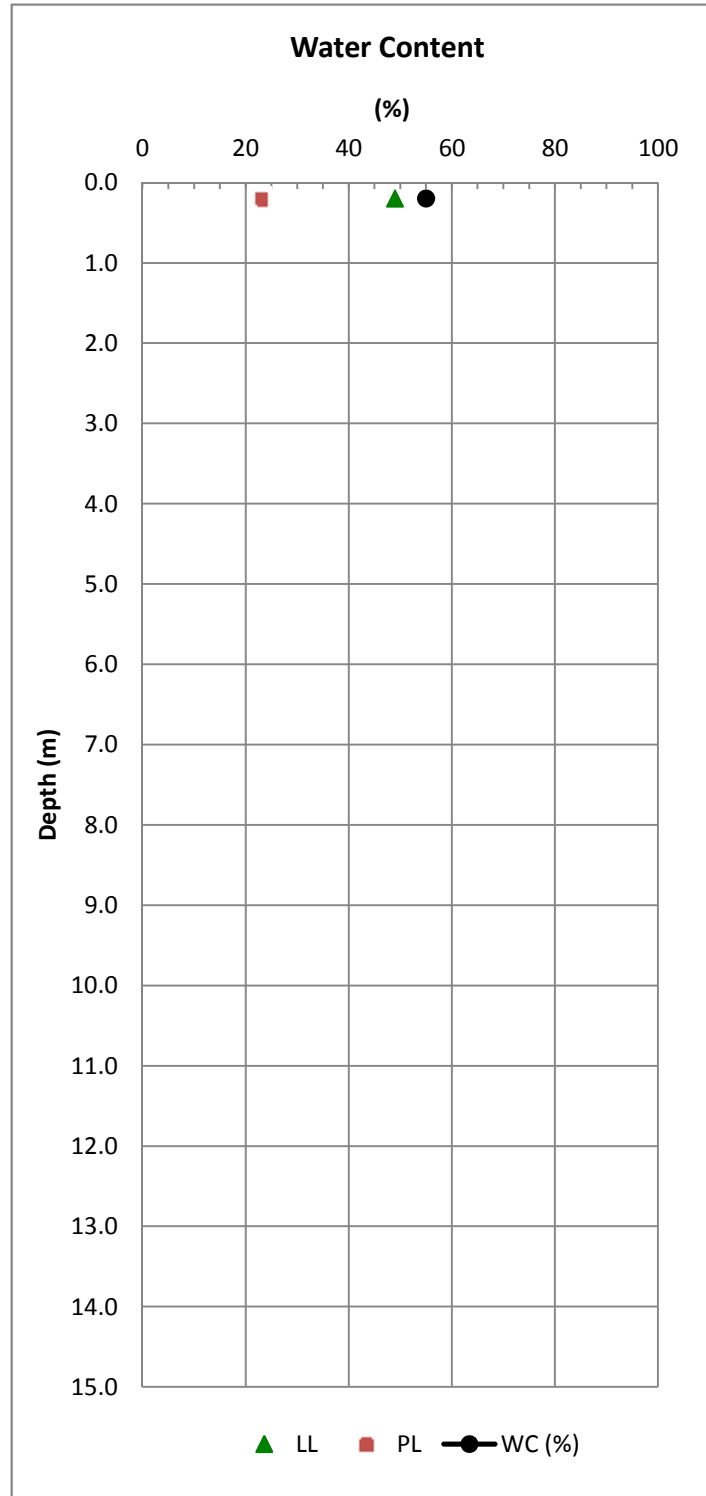
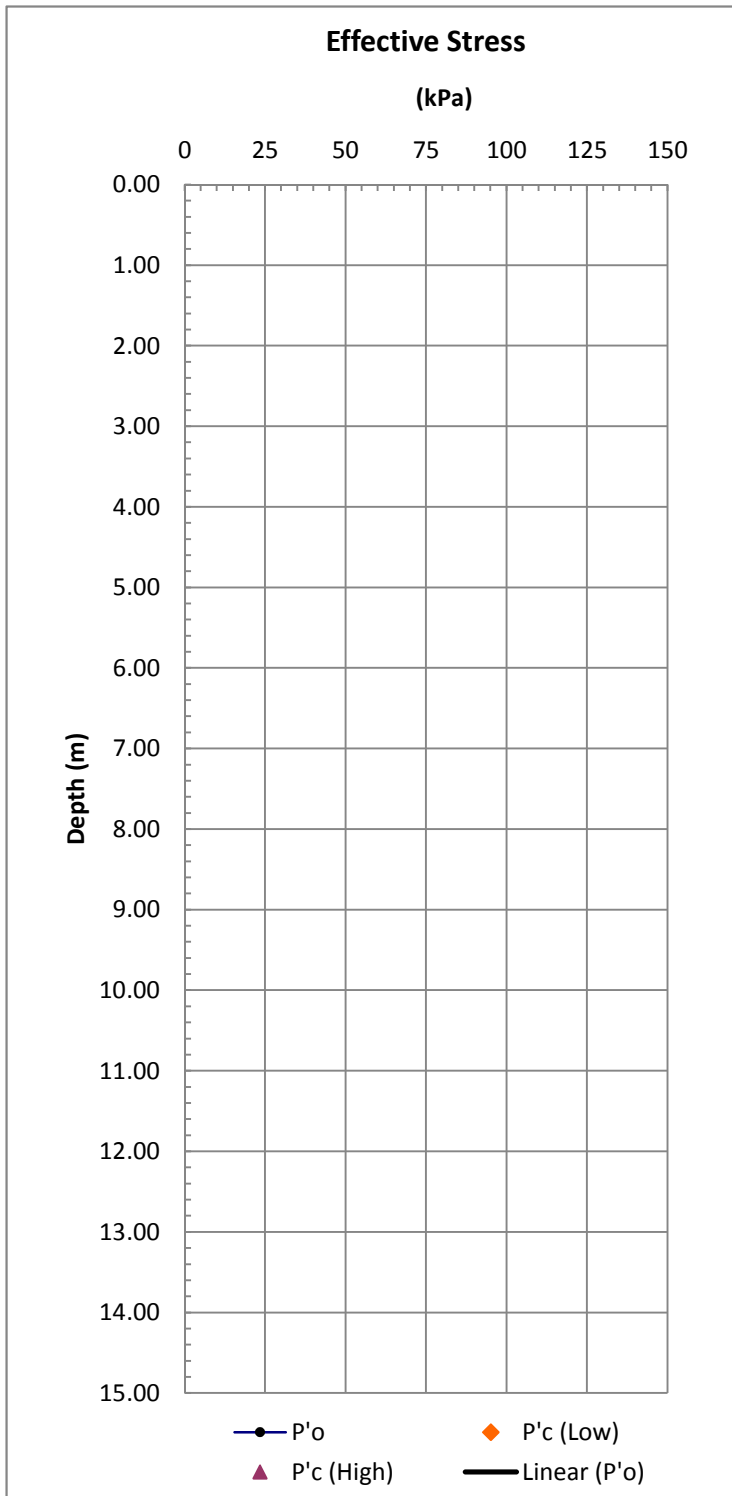
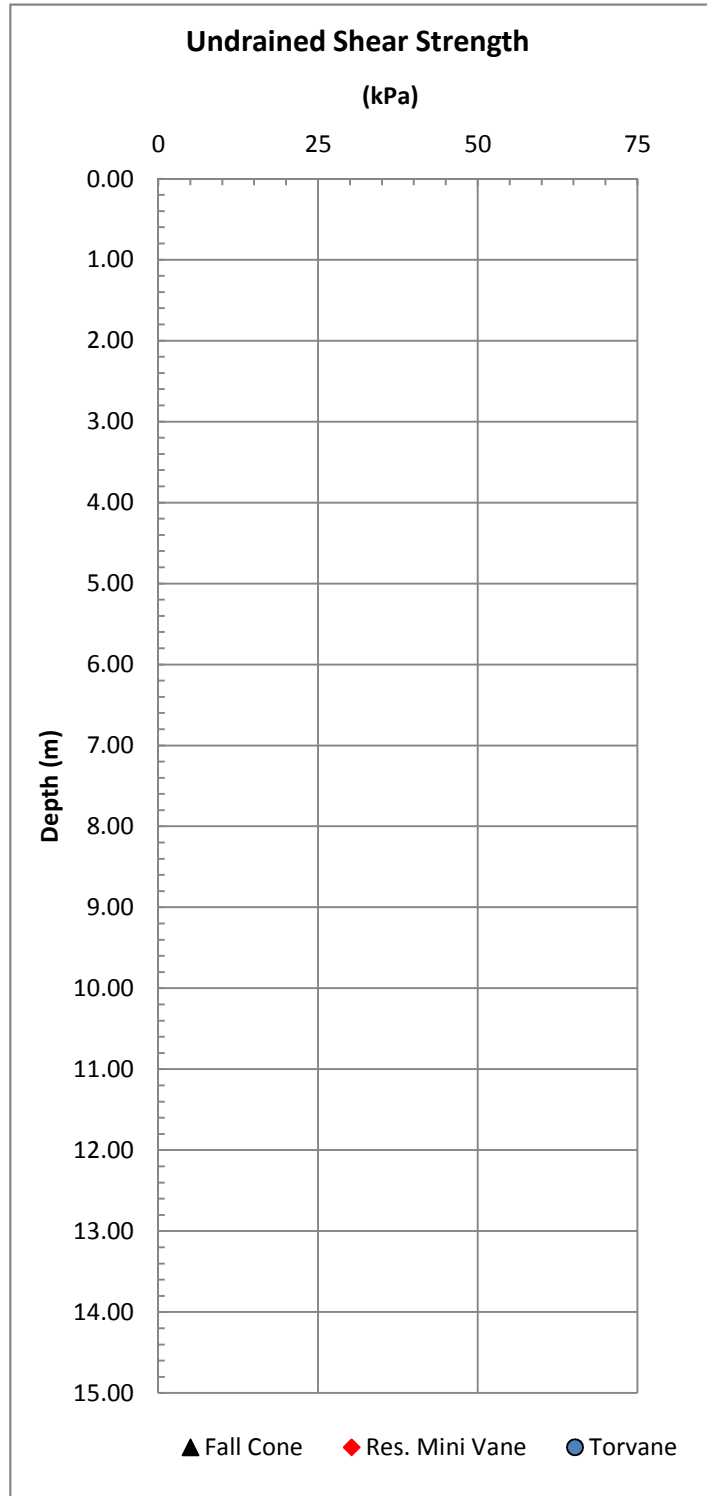
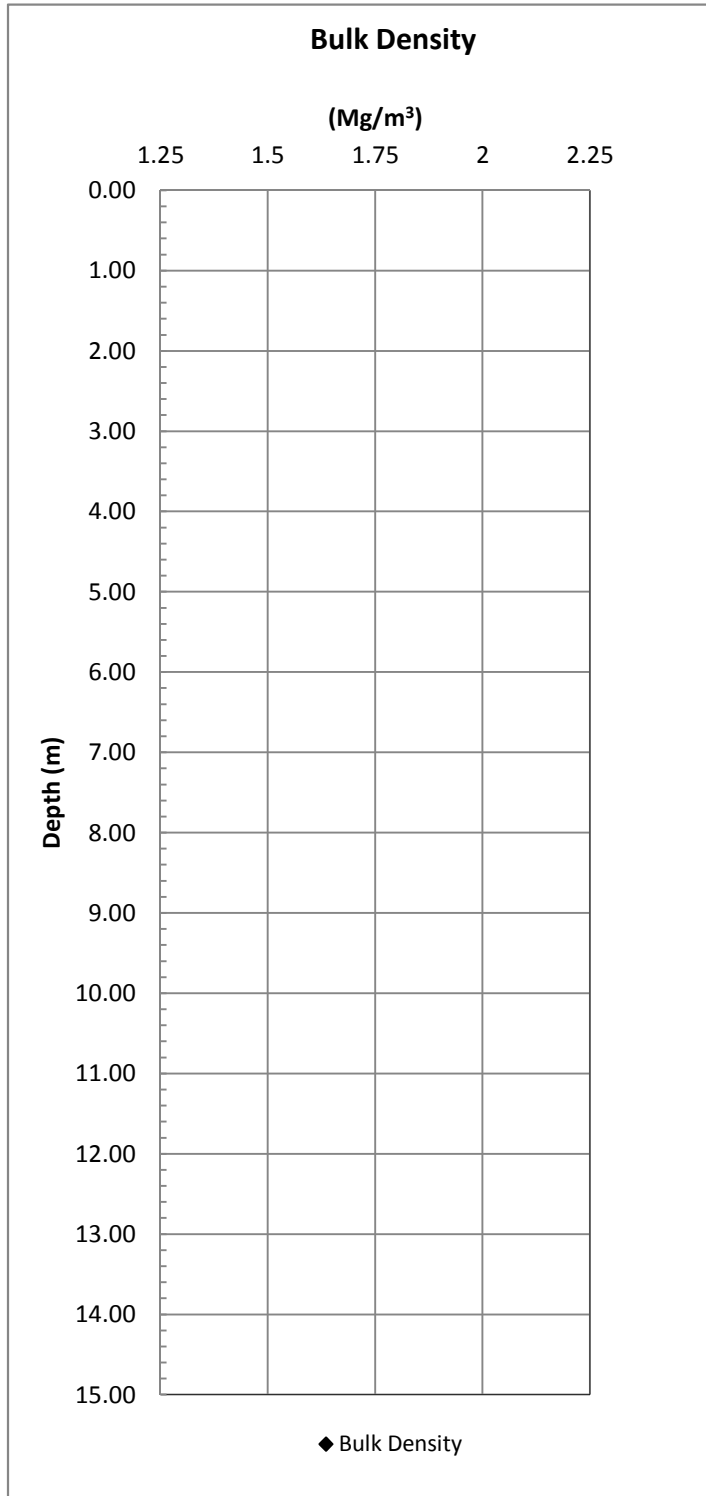


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Figure C.3

10033 Beaufort Data

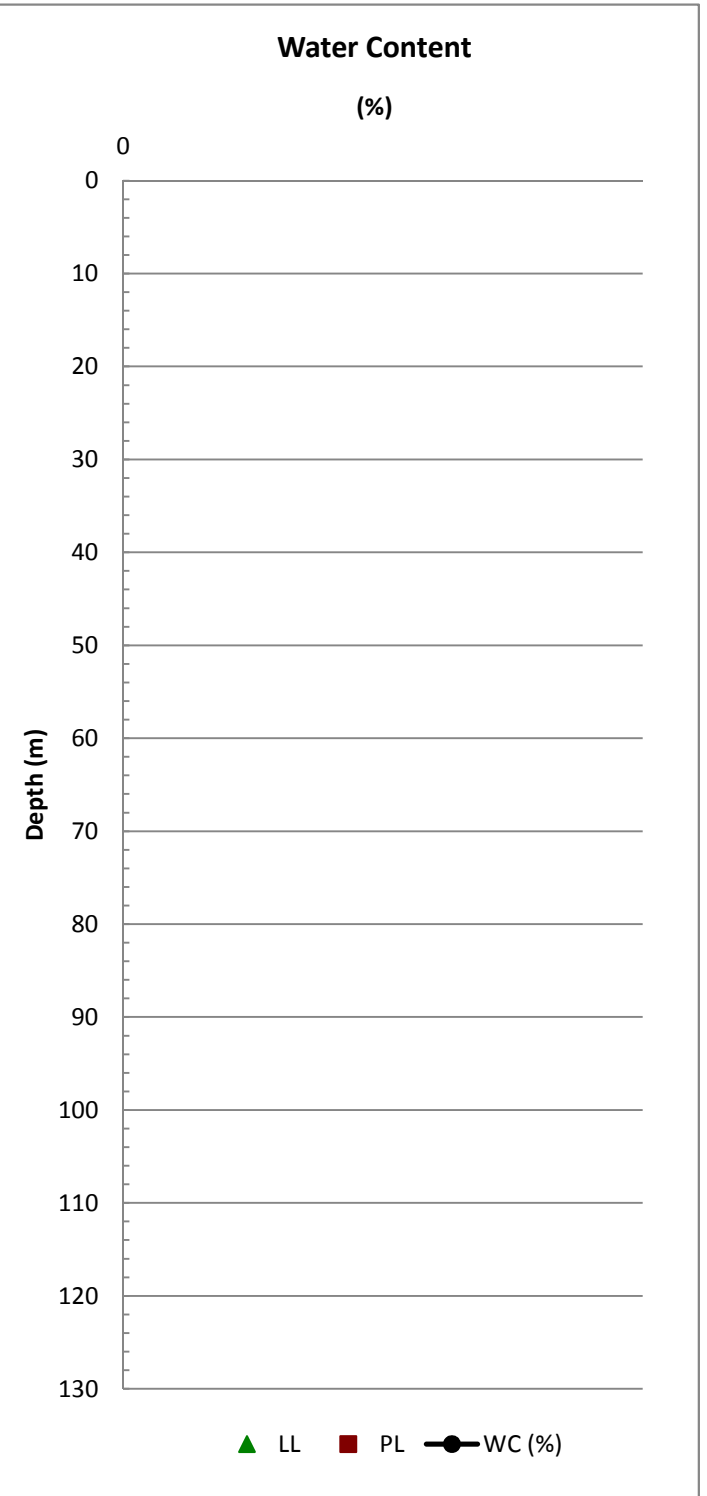
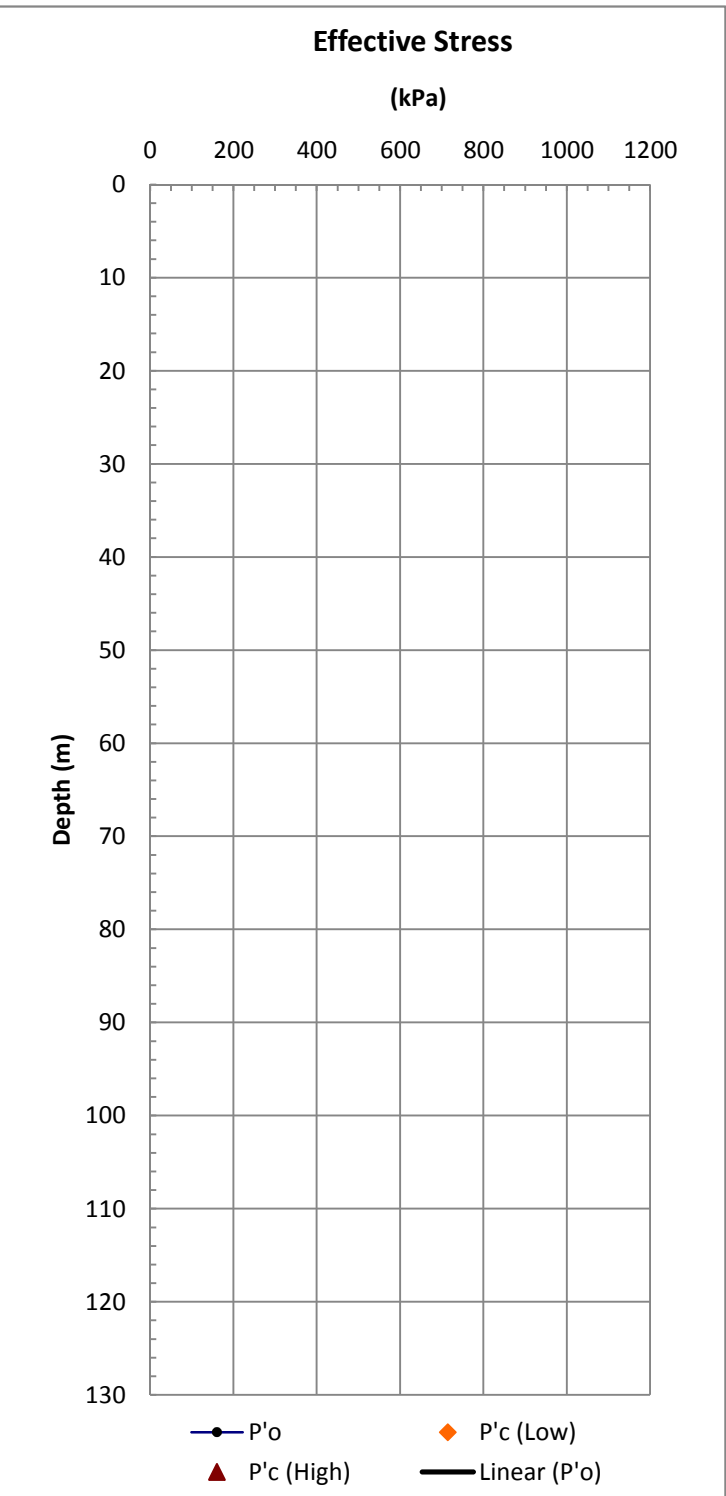
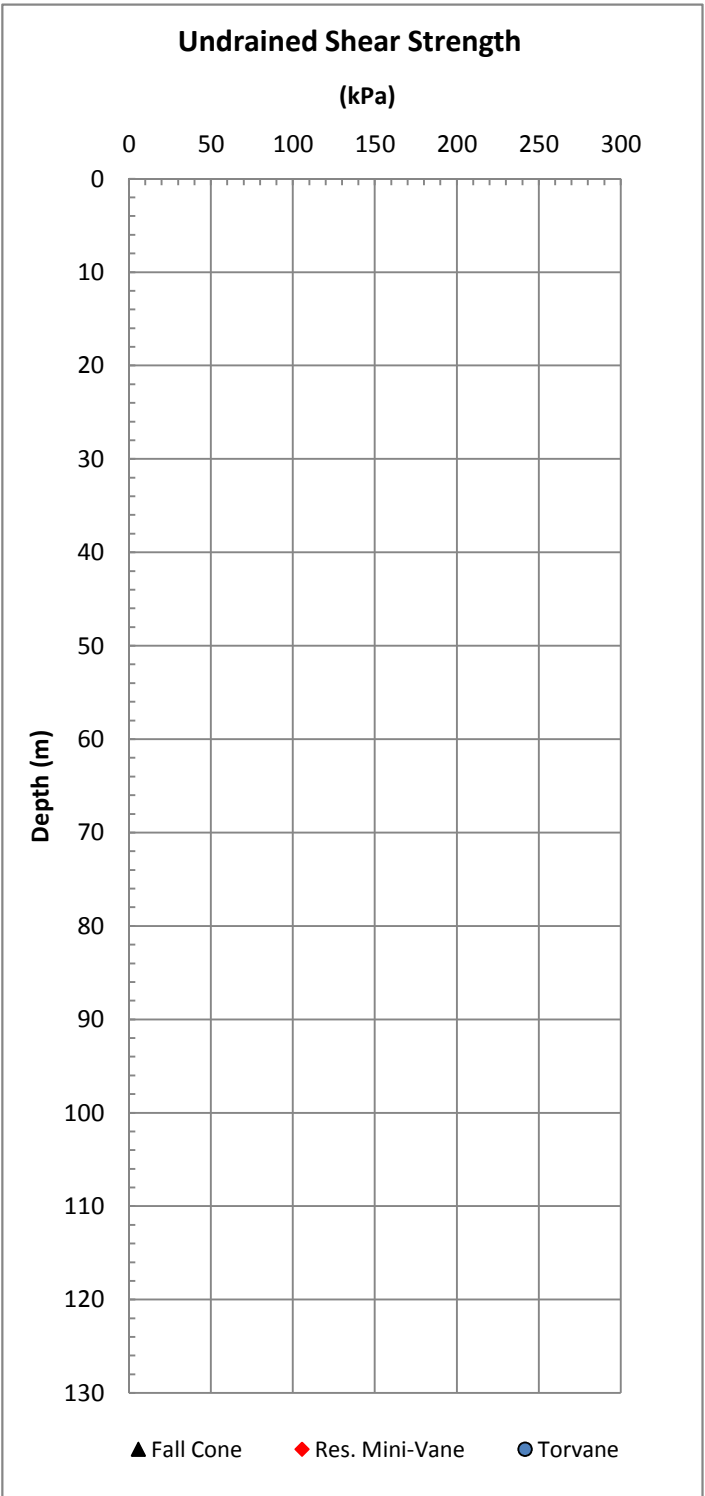
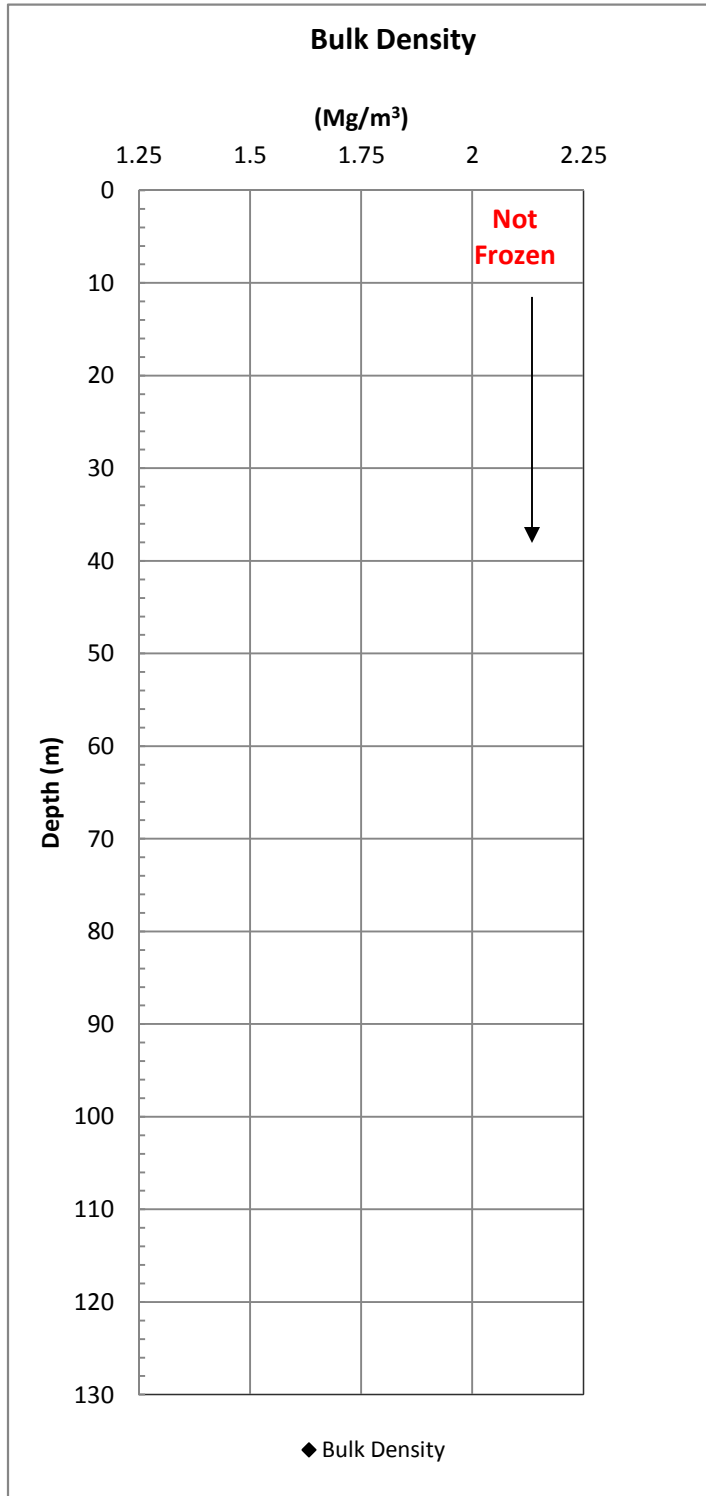


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Figure C.3

10033 Beaufort Data

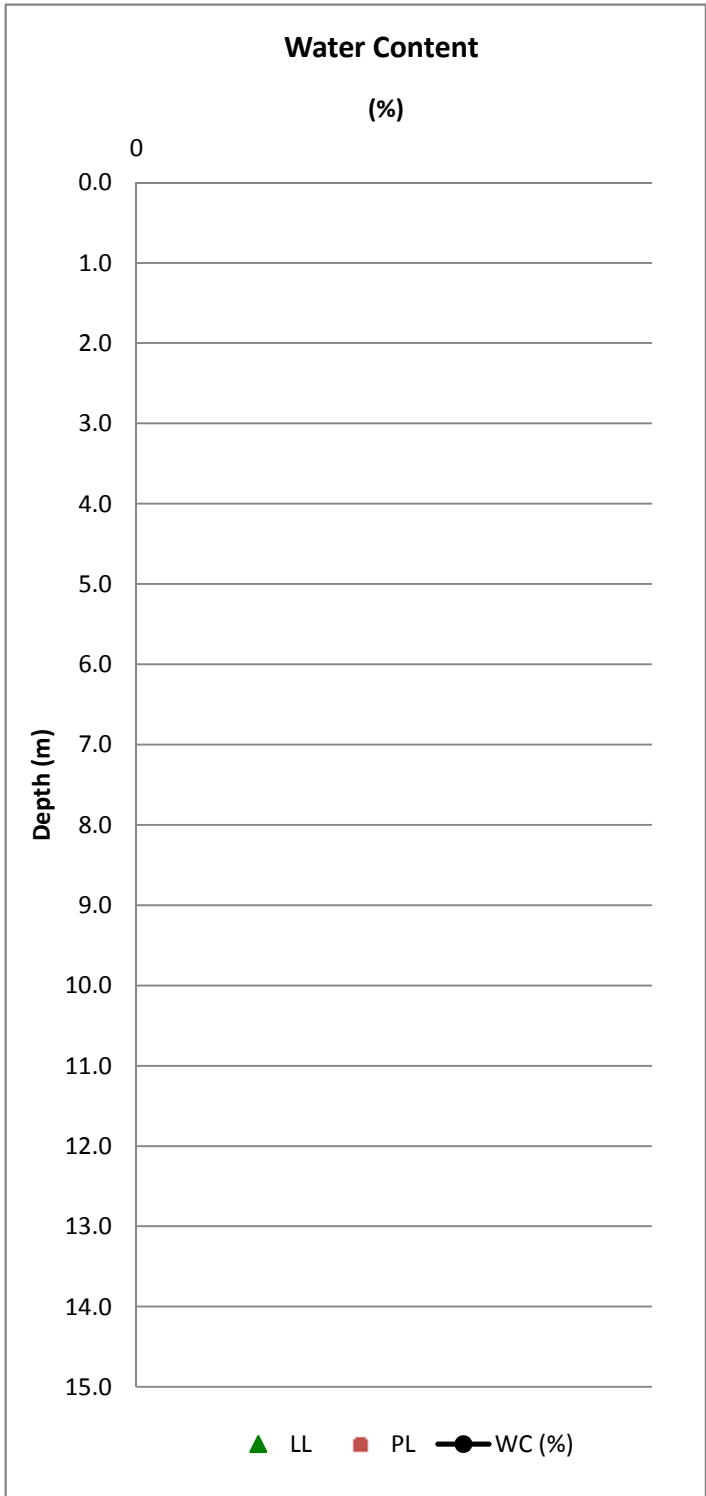
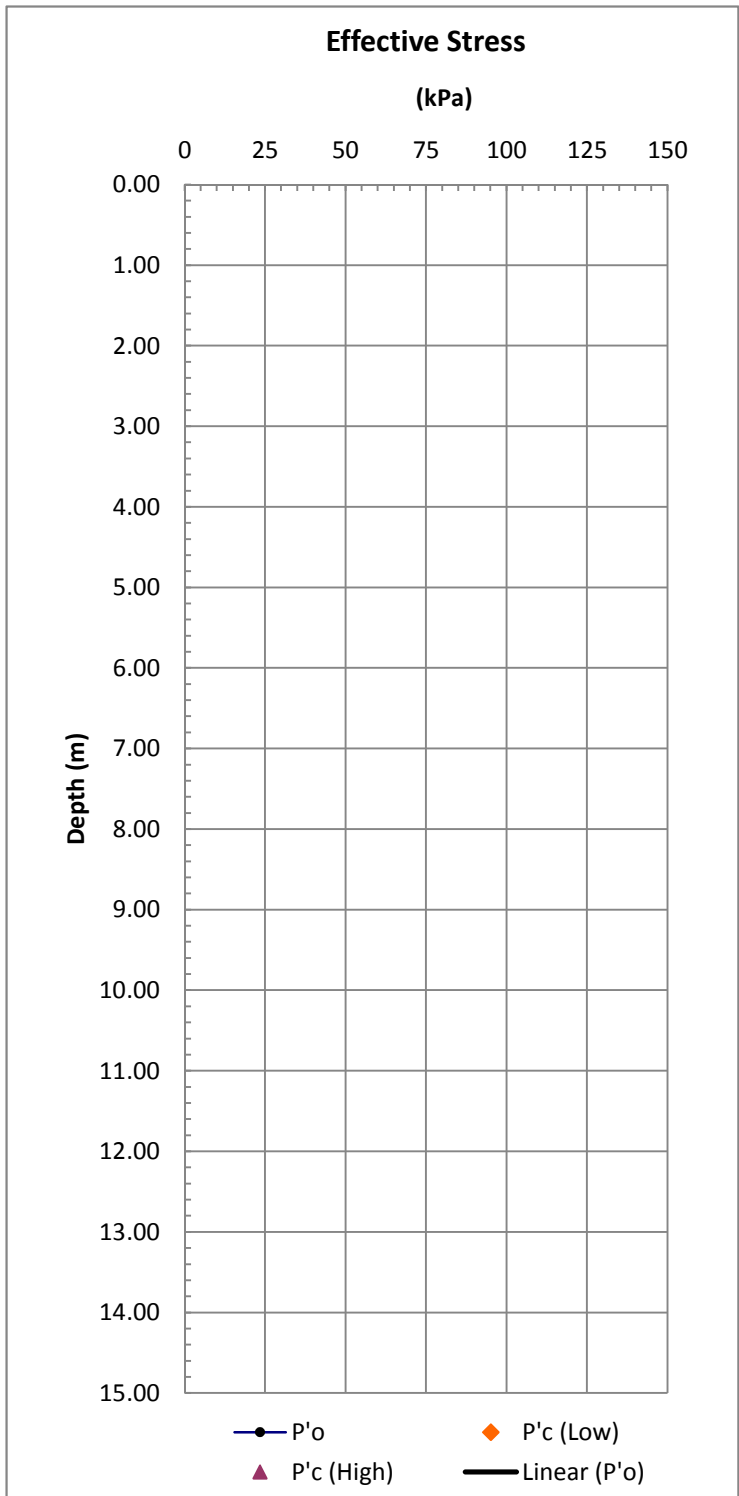
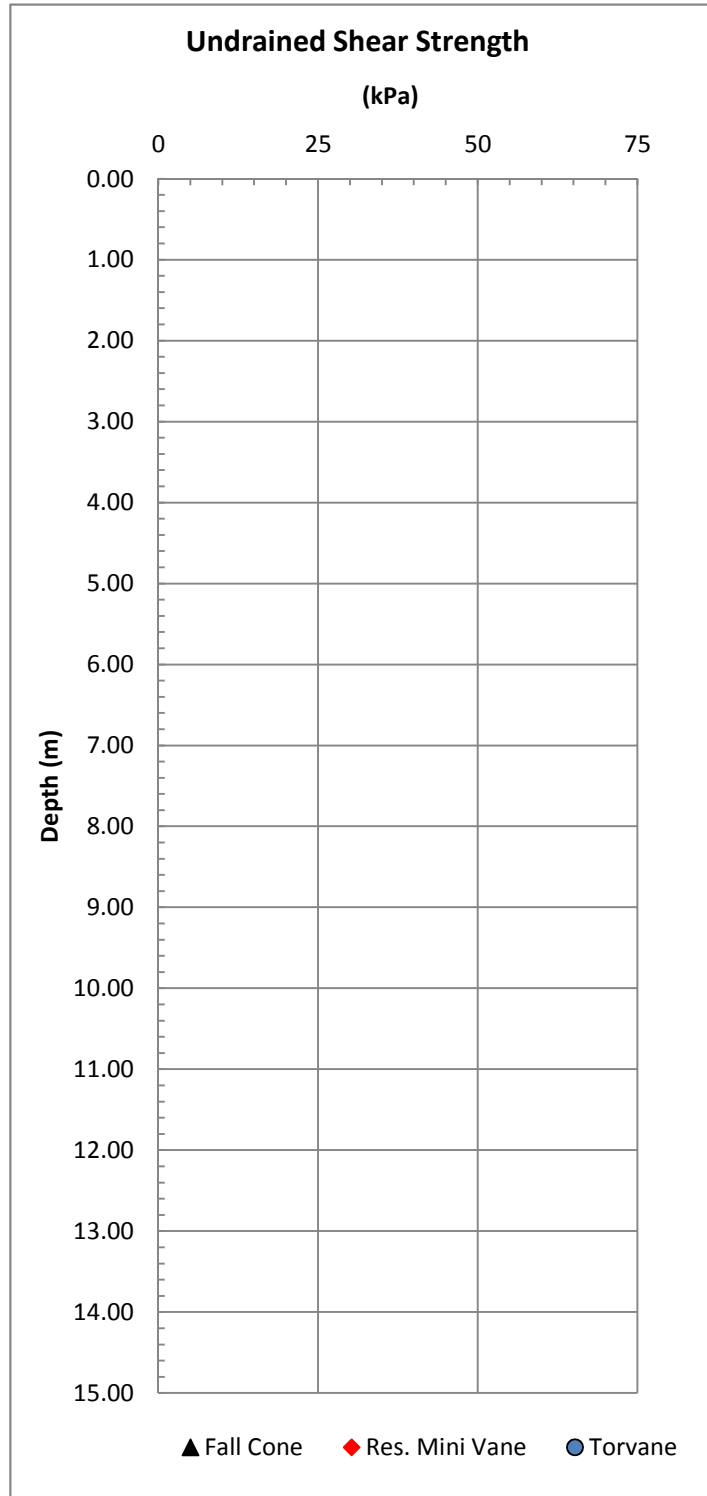
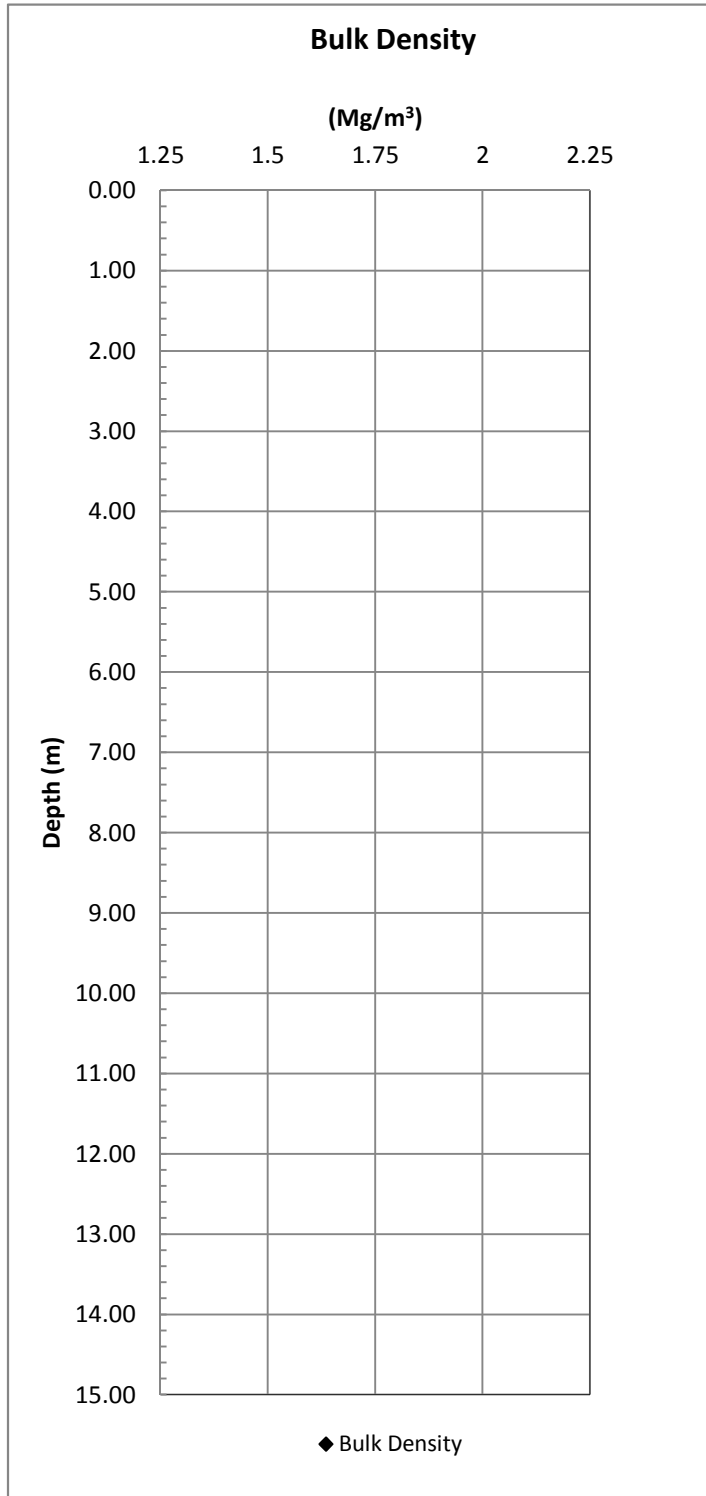


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Figure C.3

10033 Beaufort Data

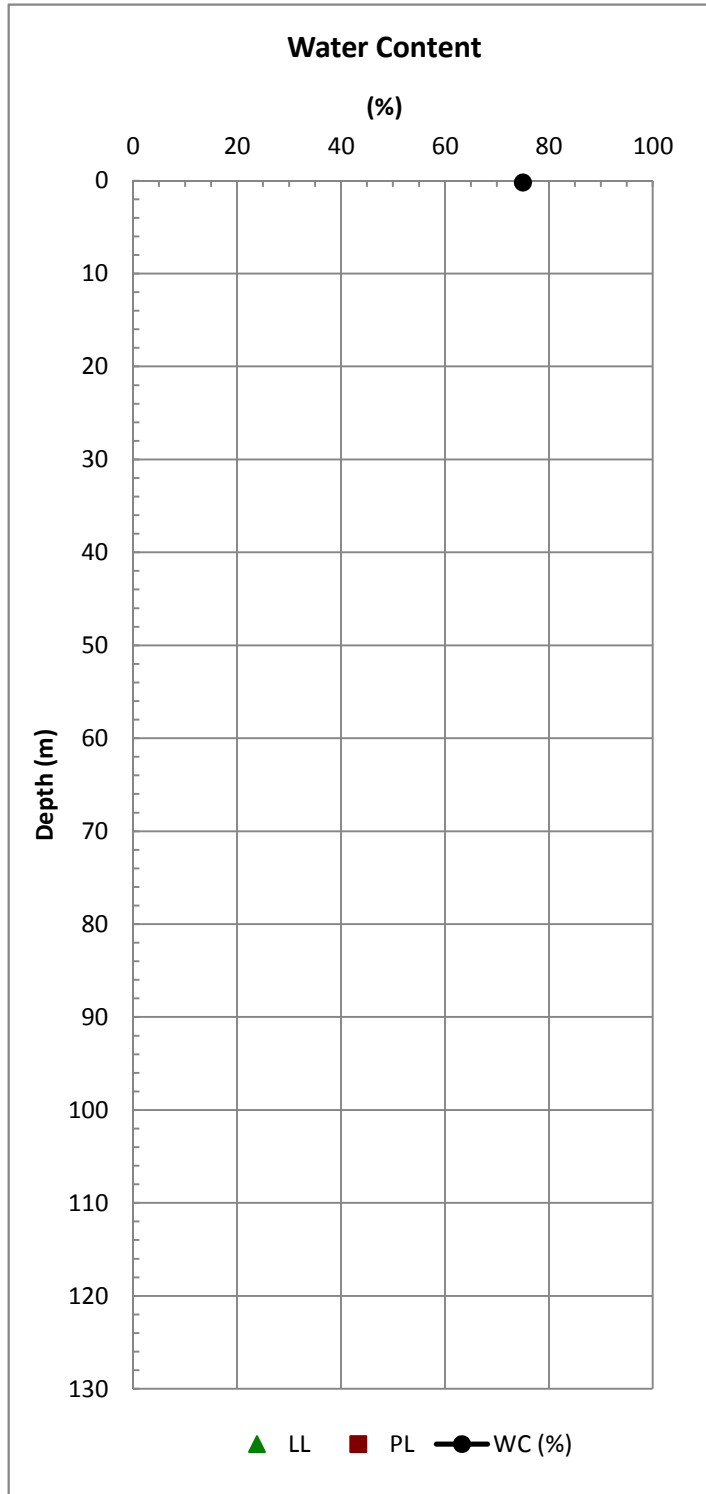
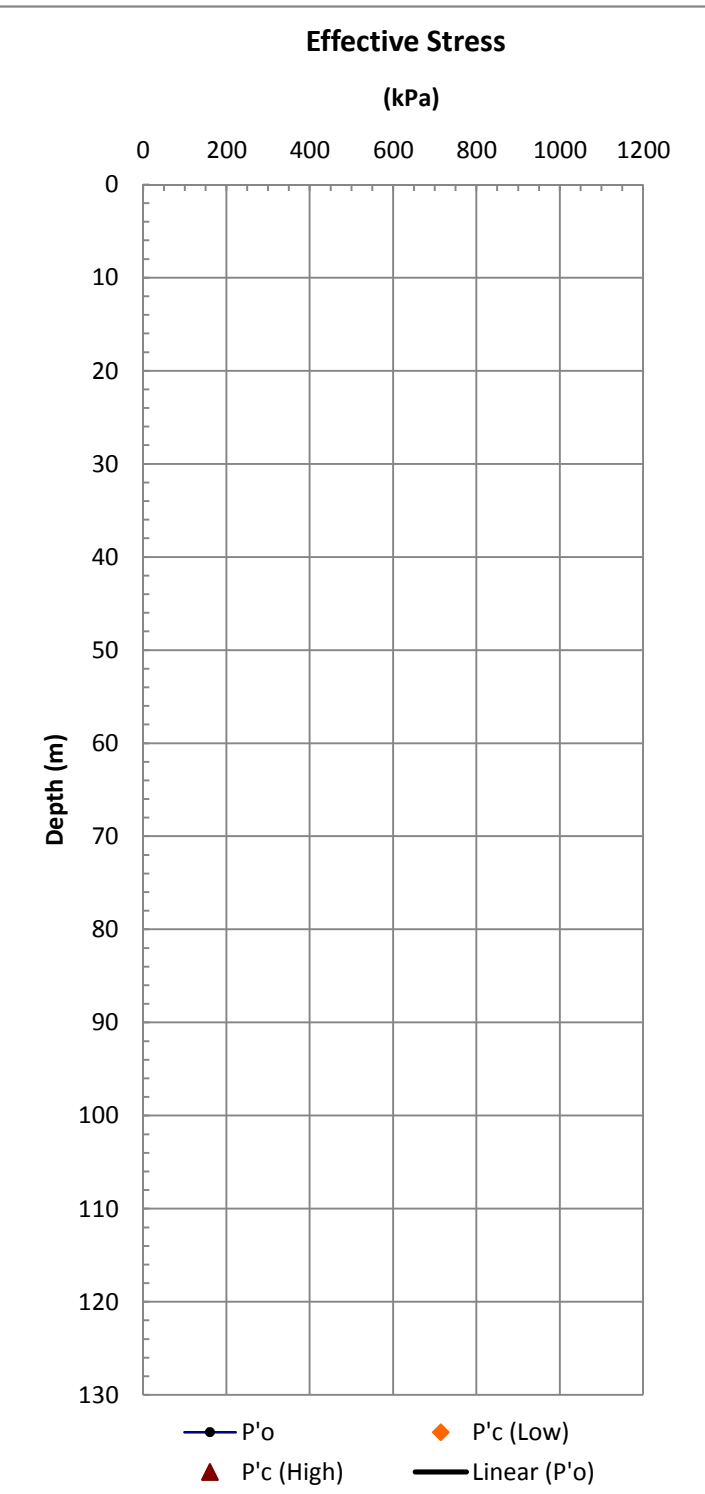
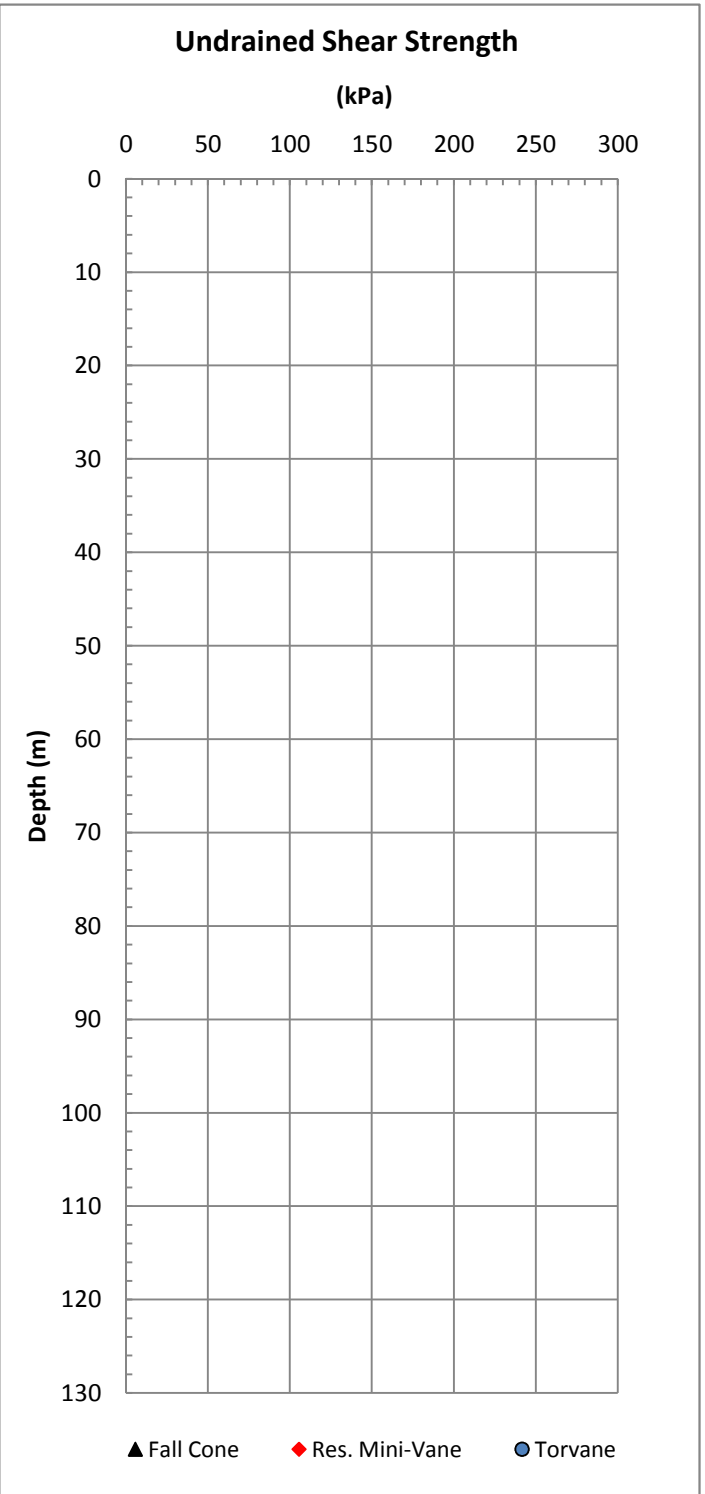
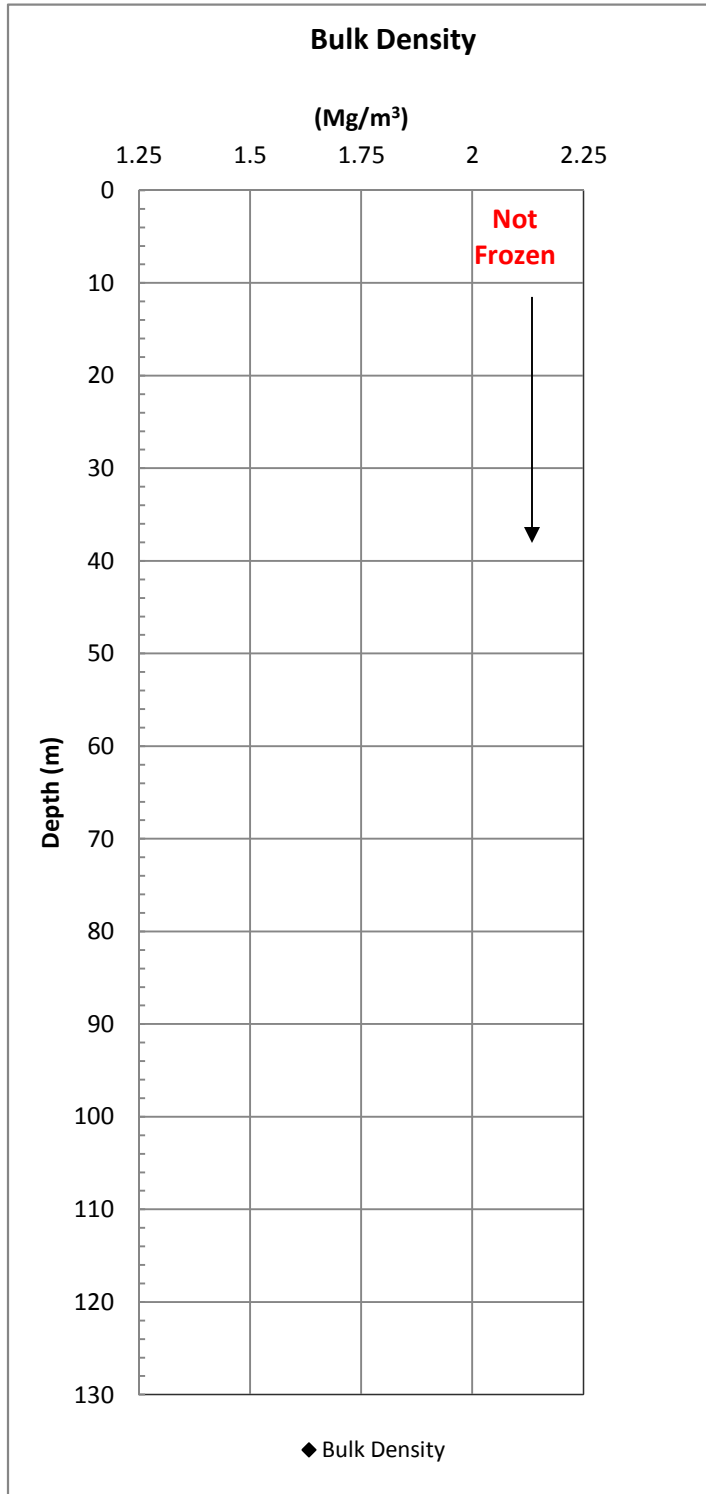


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Figure C.3

10033 Beaufort Data

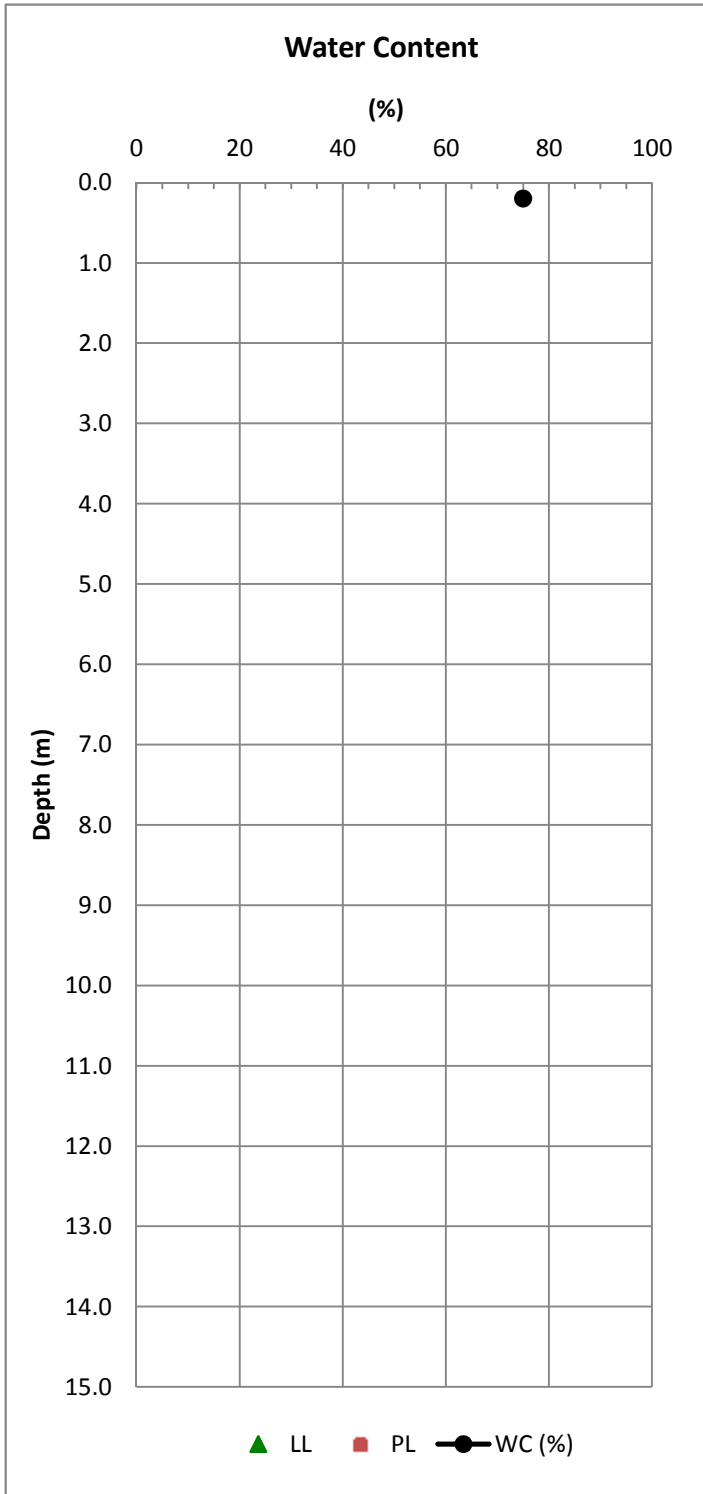
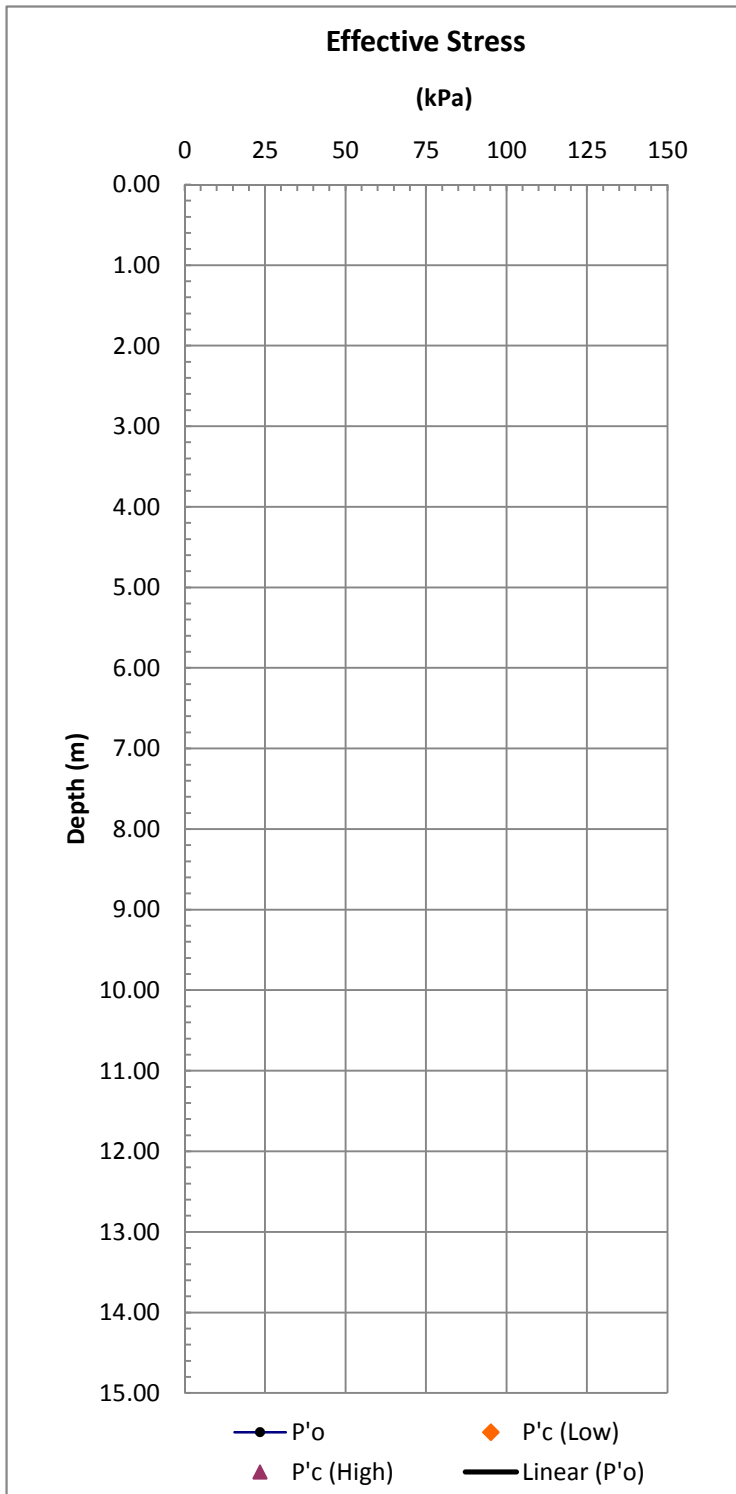
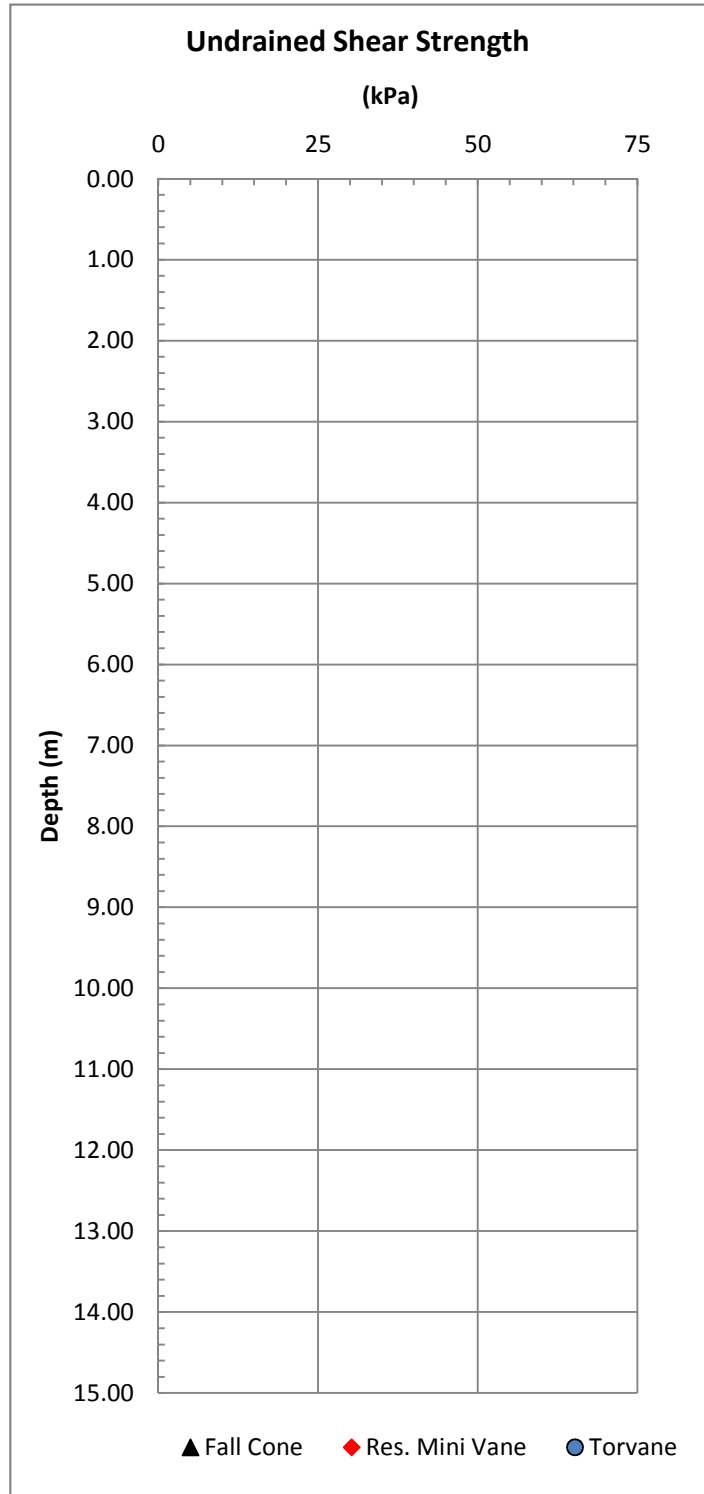
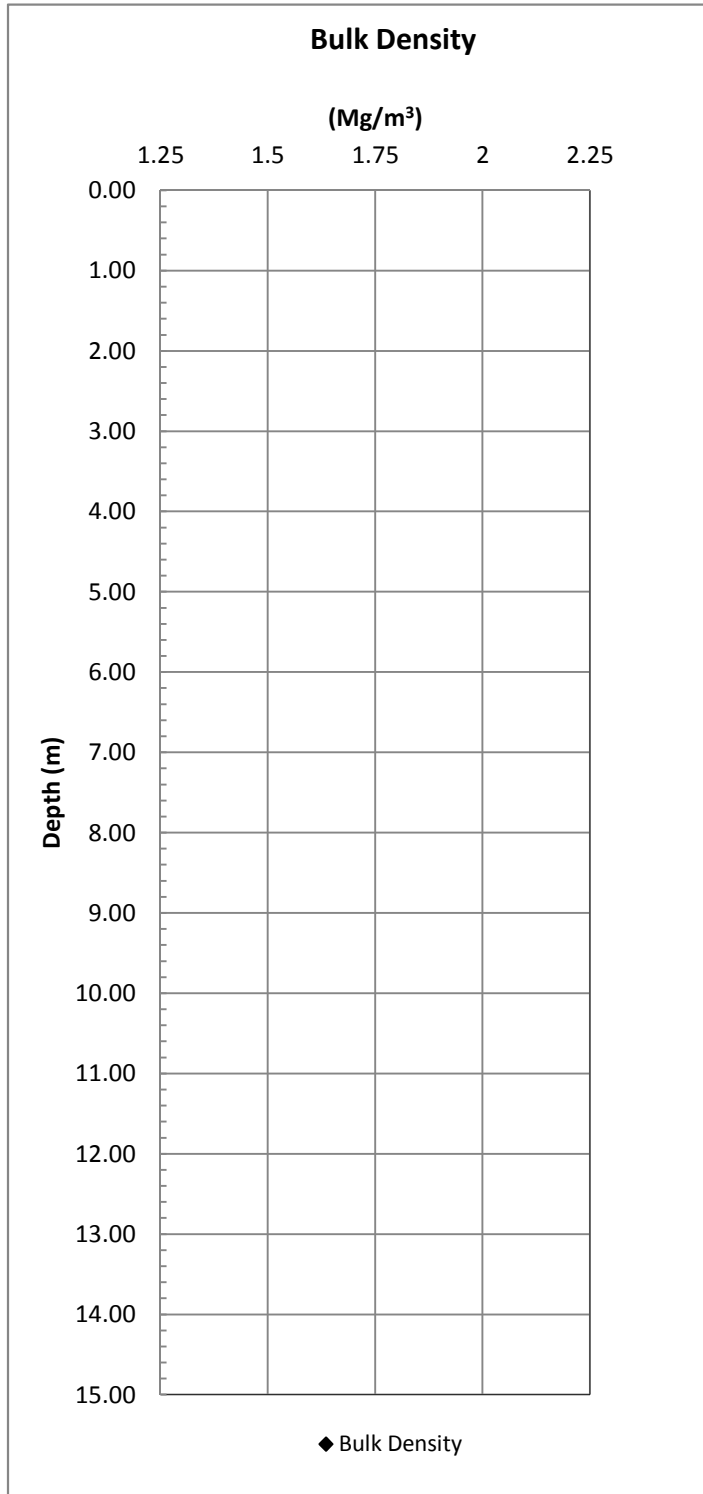


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Figure C.3

10033 Beaufort Data

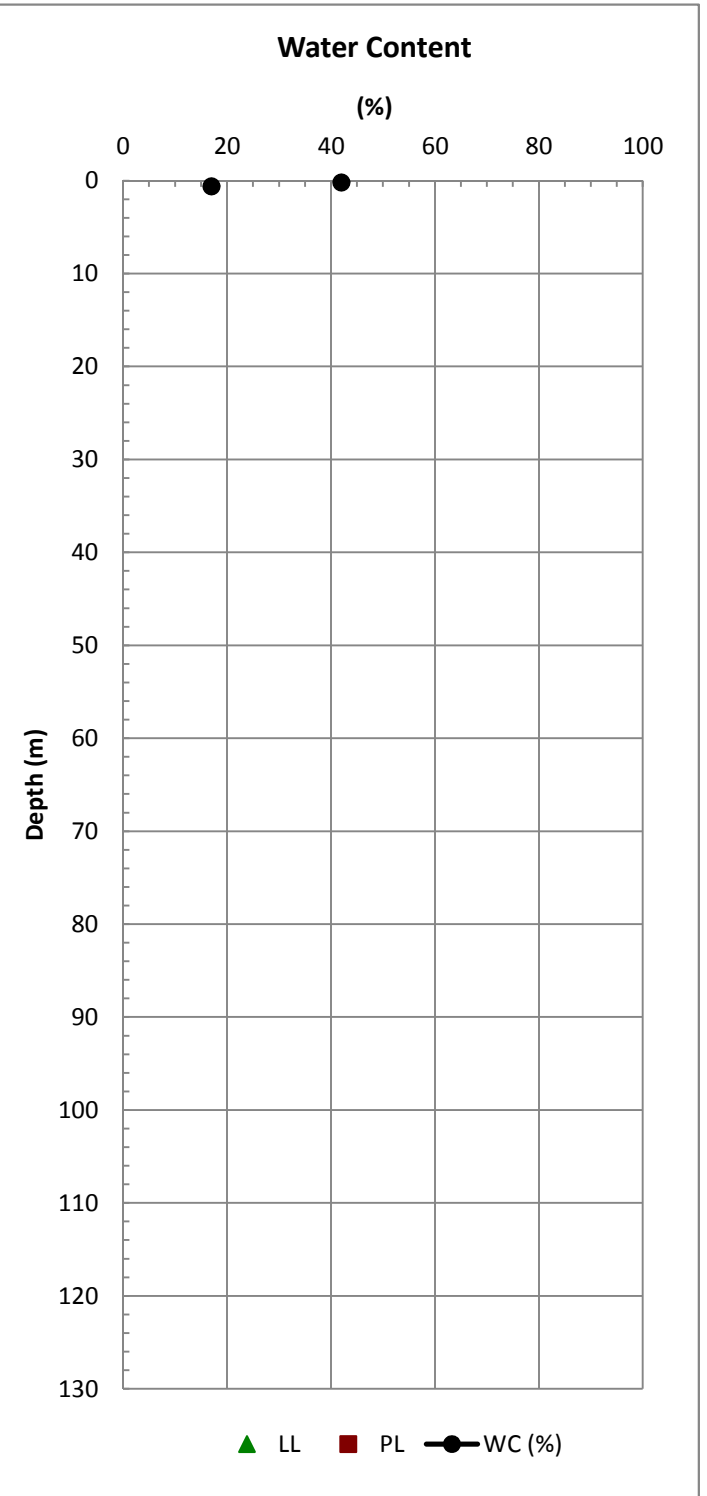
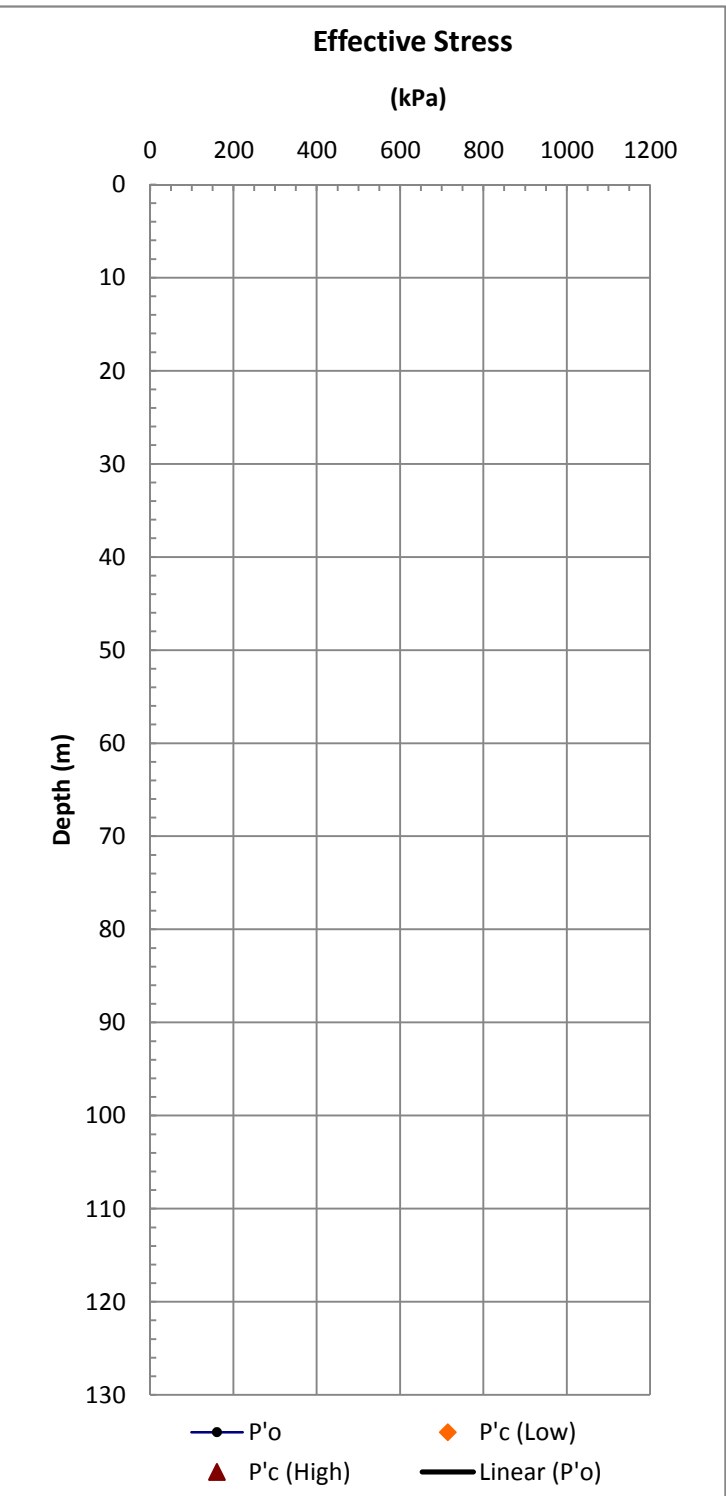
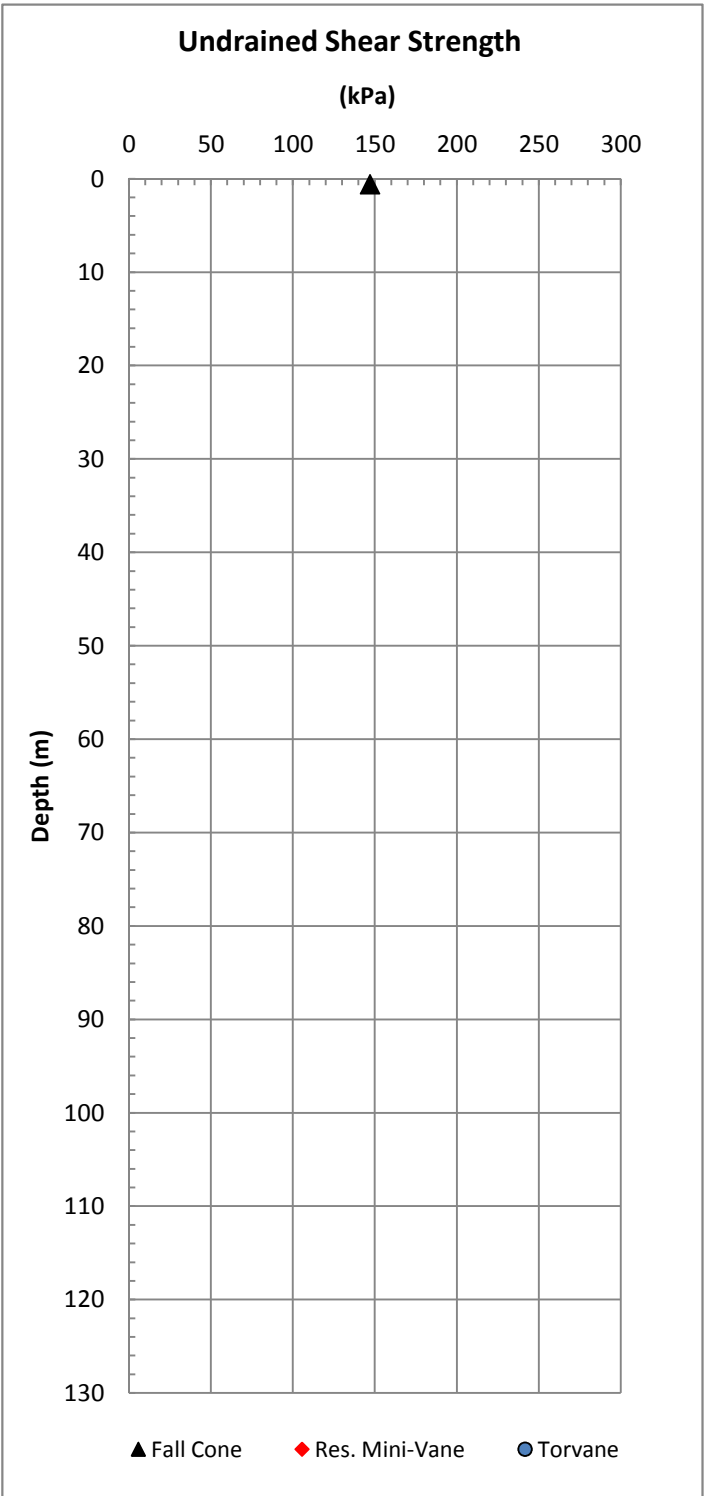
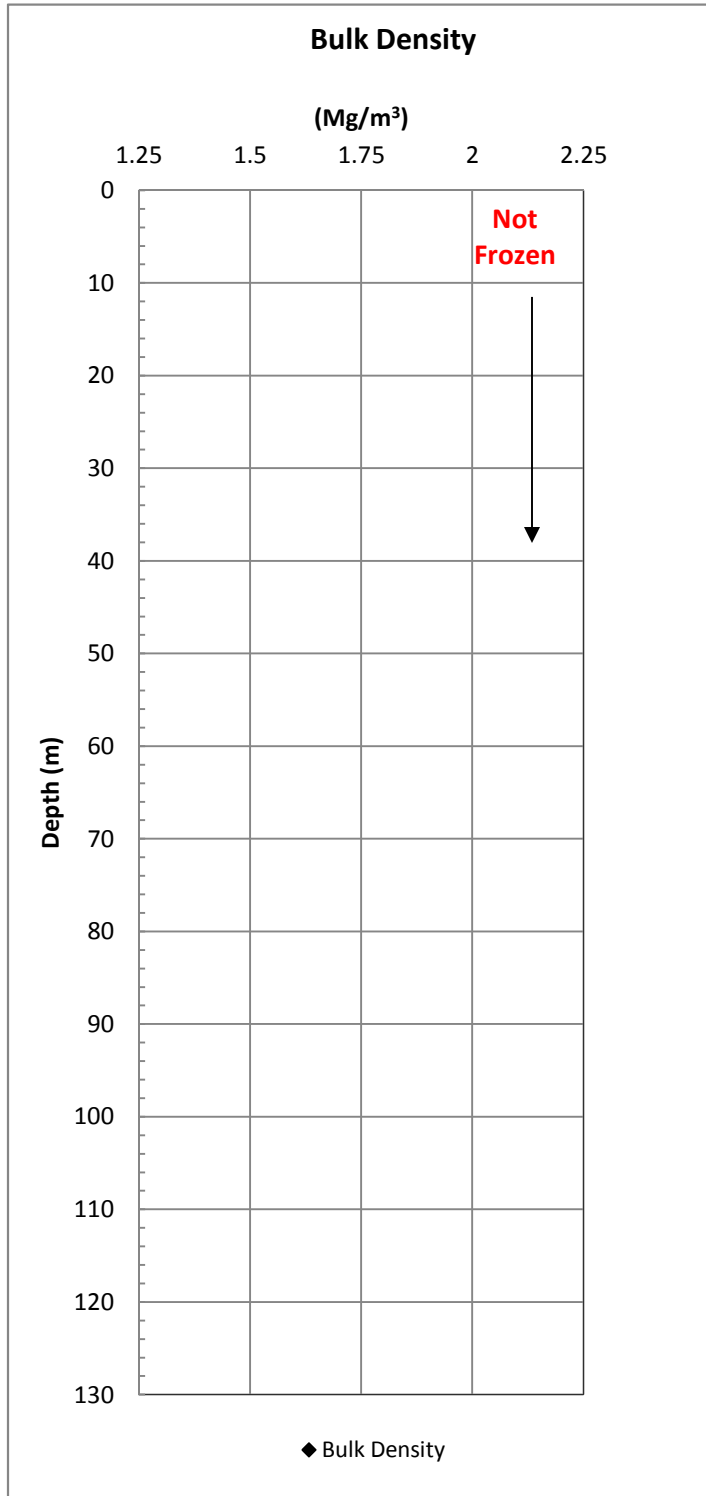


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Figure C.3

10033 Beaufort Data

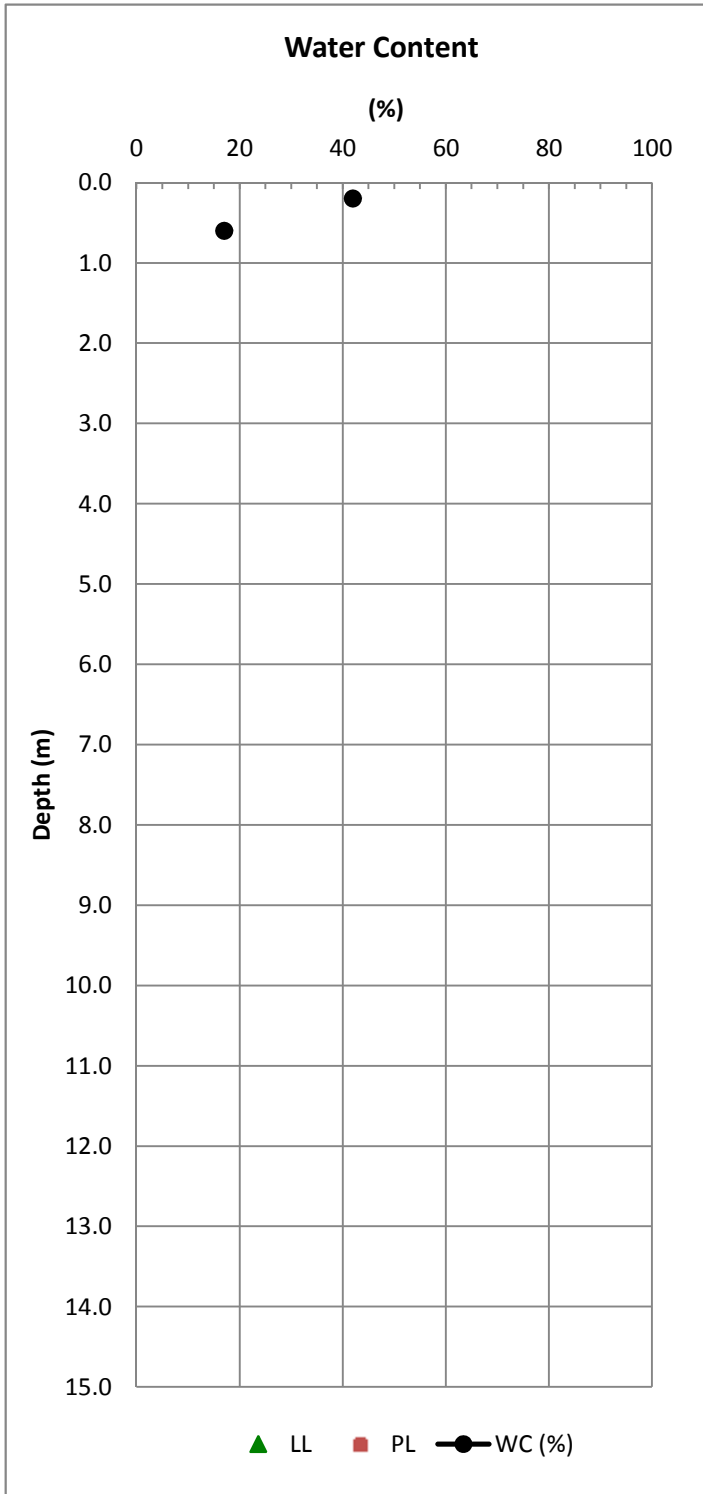
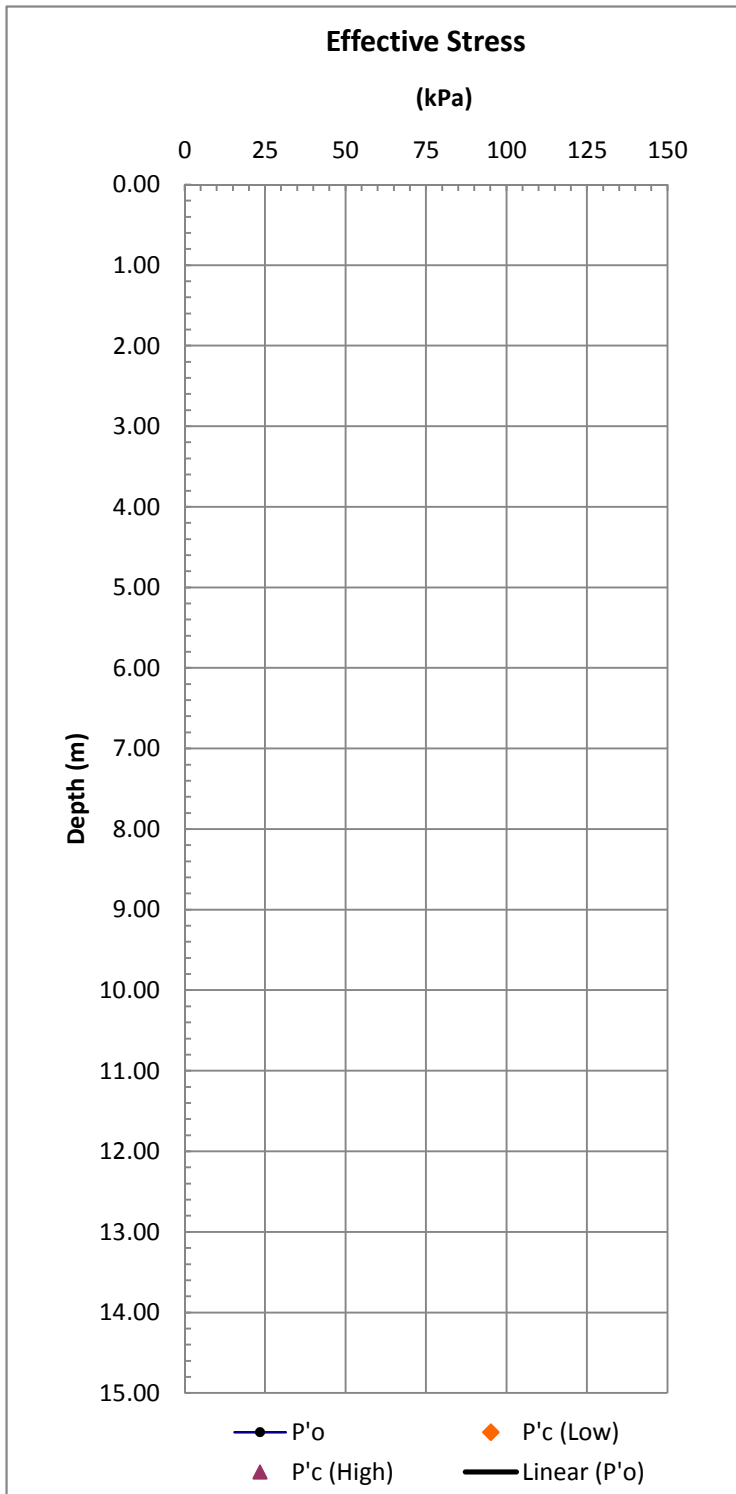
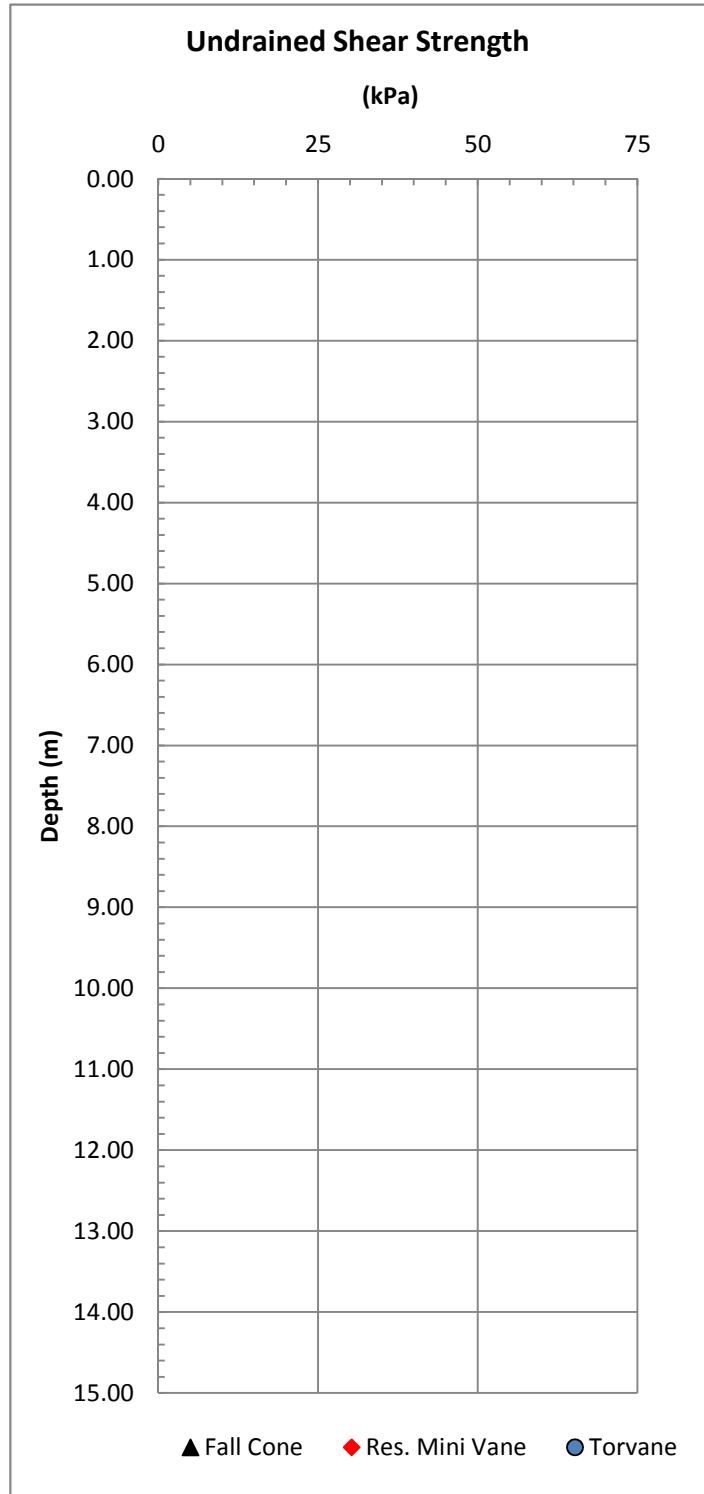
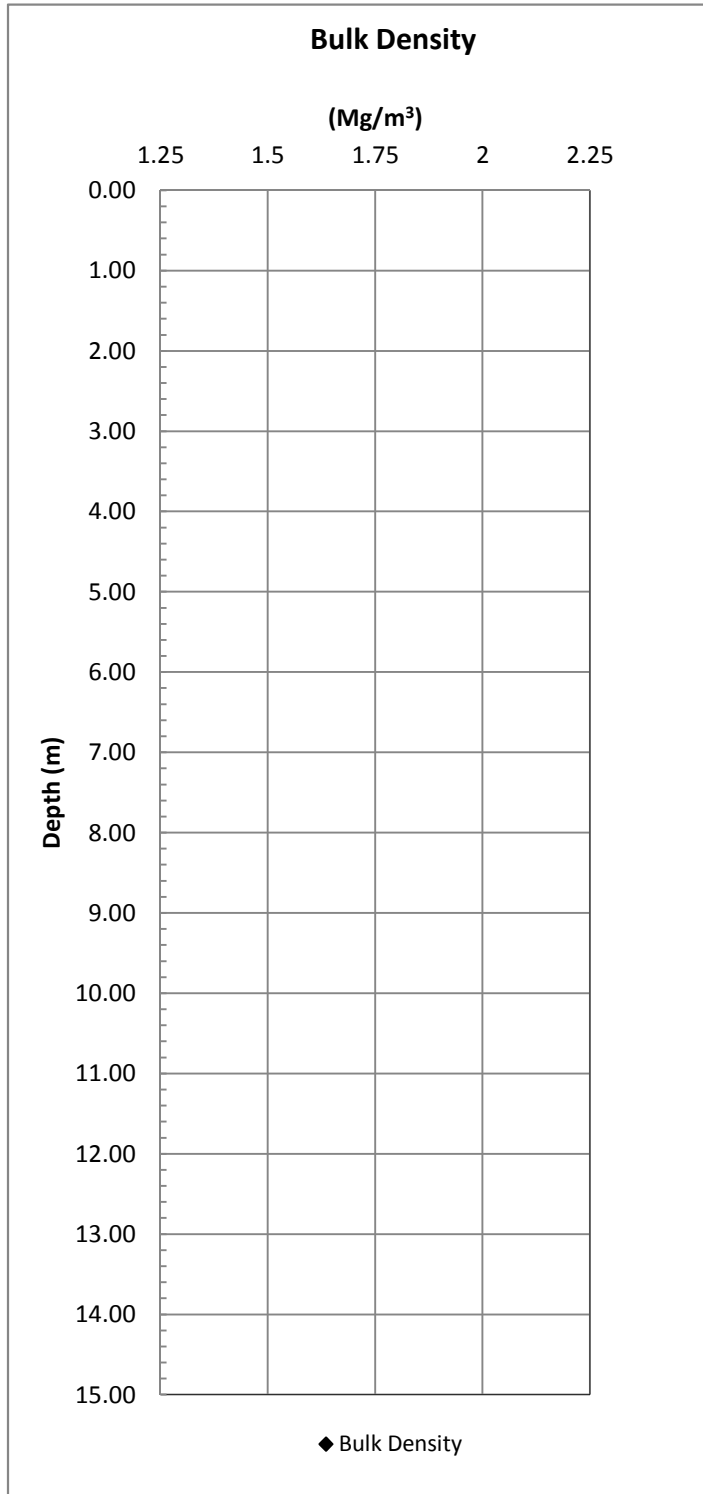


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Figure C.3

10033 Beaufort Data

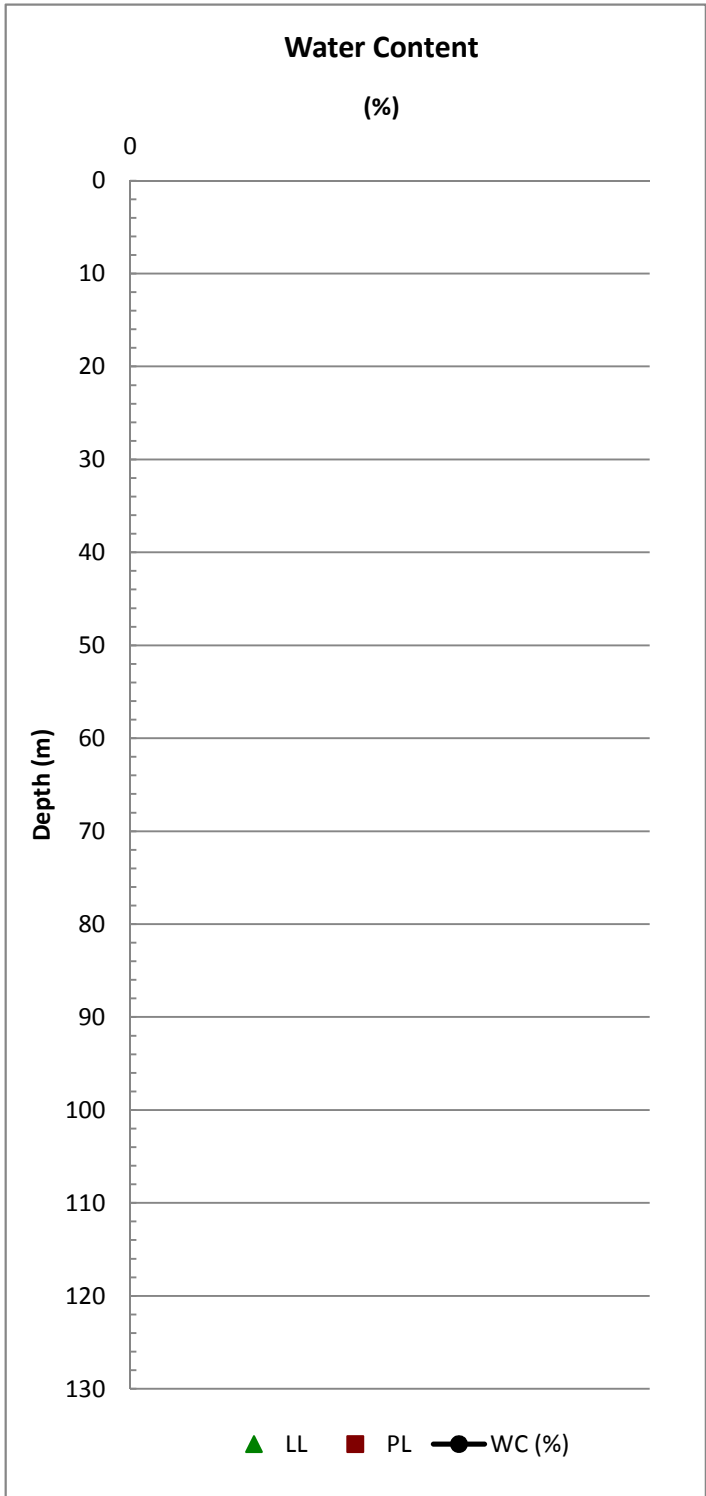
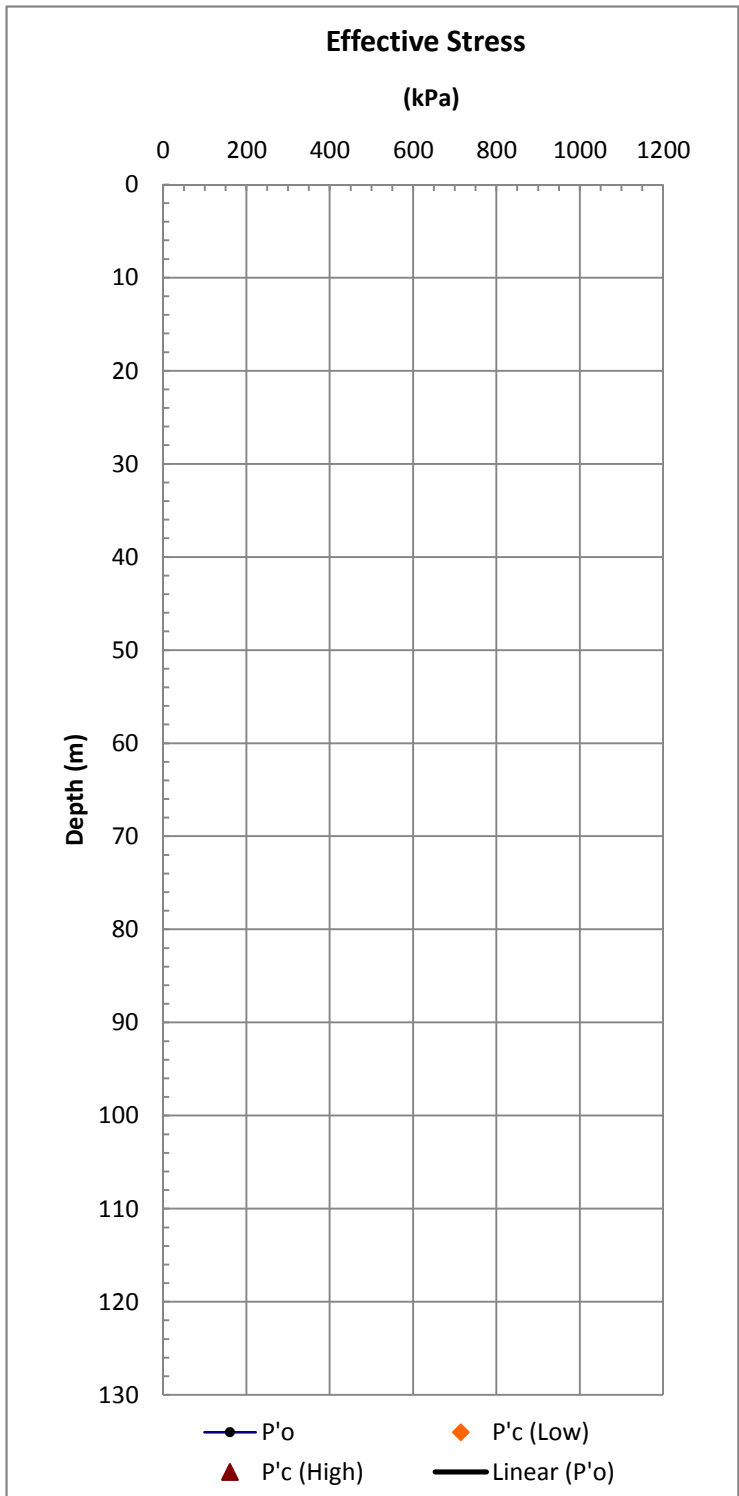
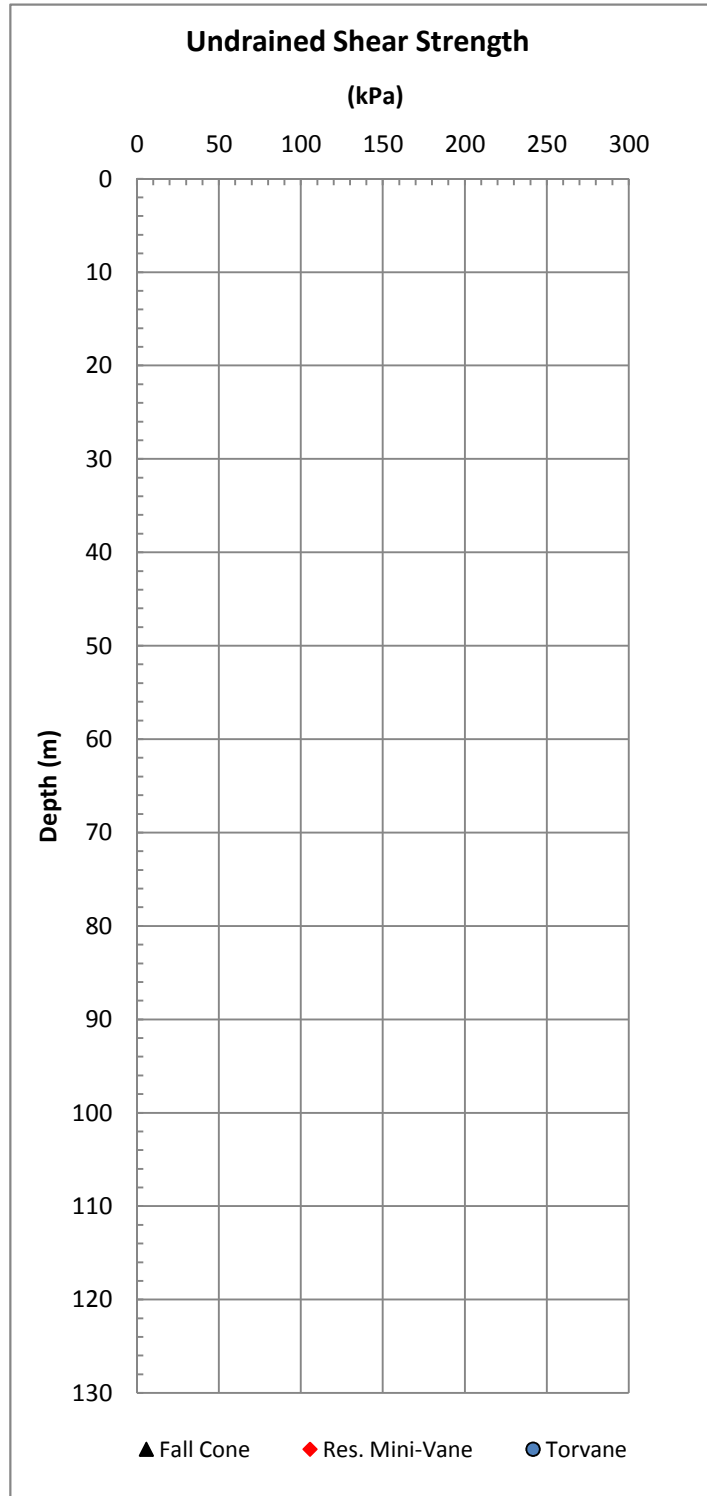
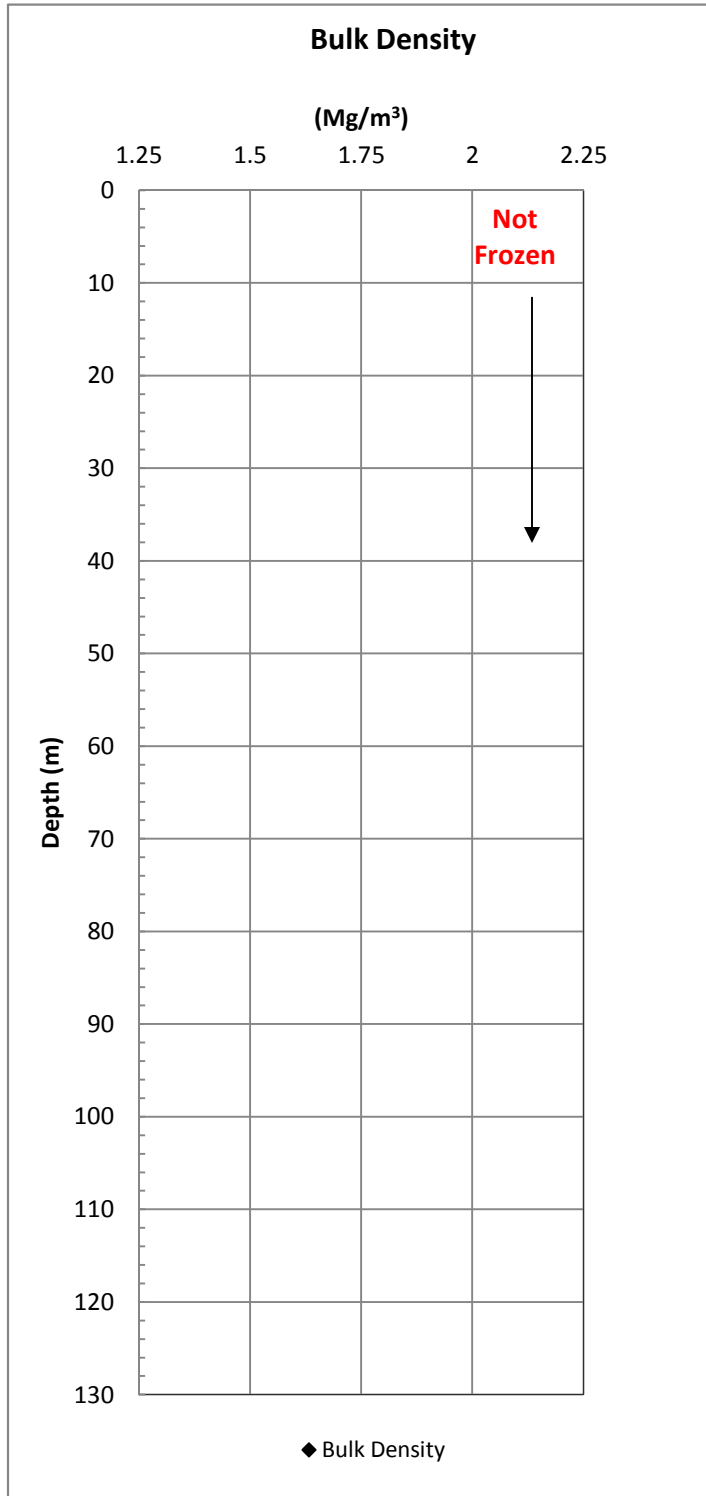


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Figure C.3

10033 Beaufort Data

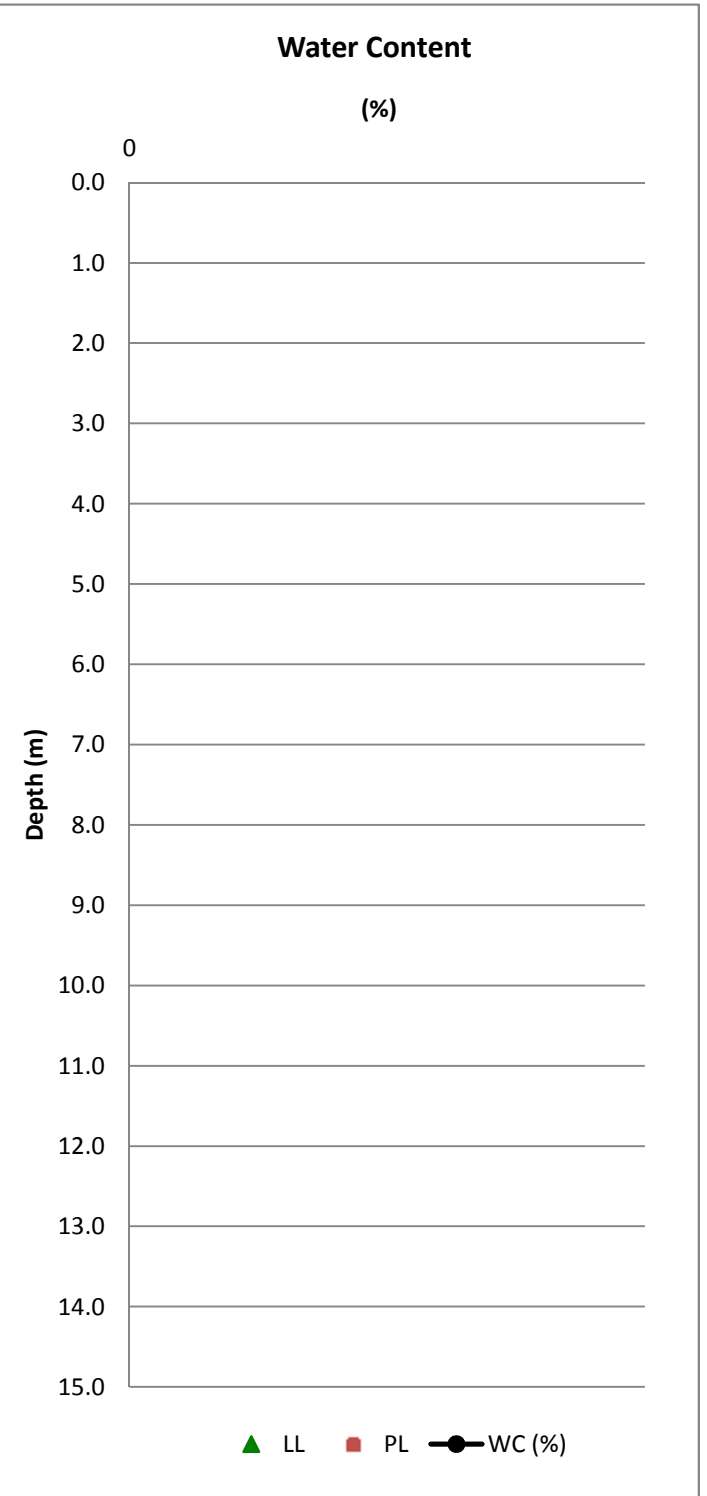
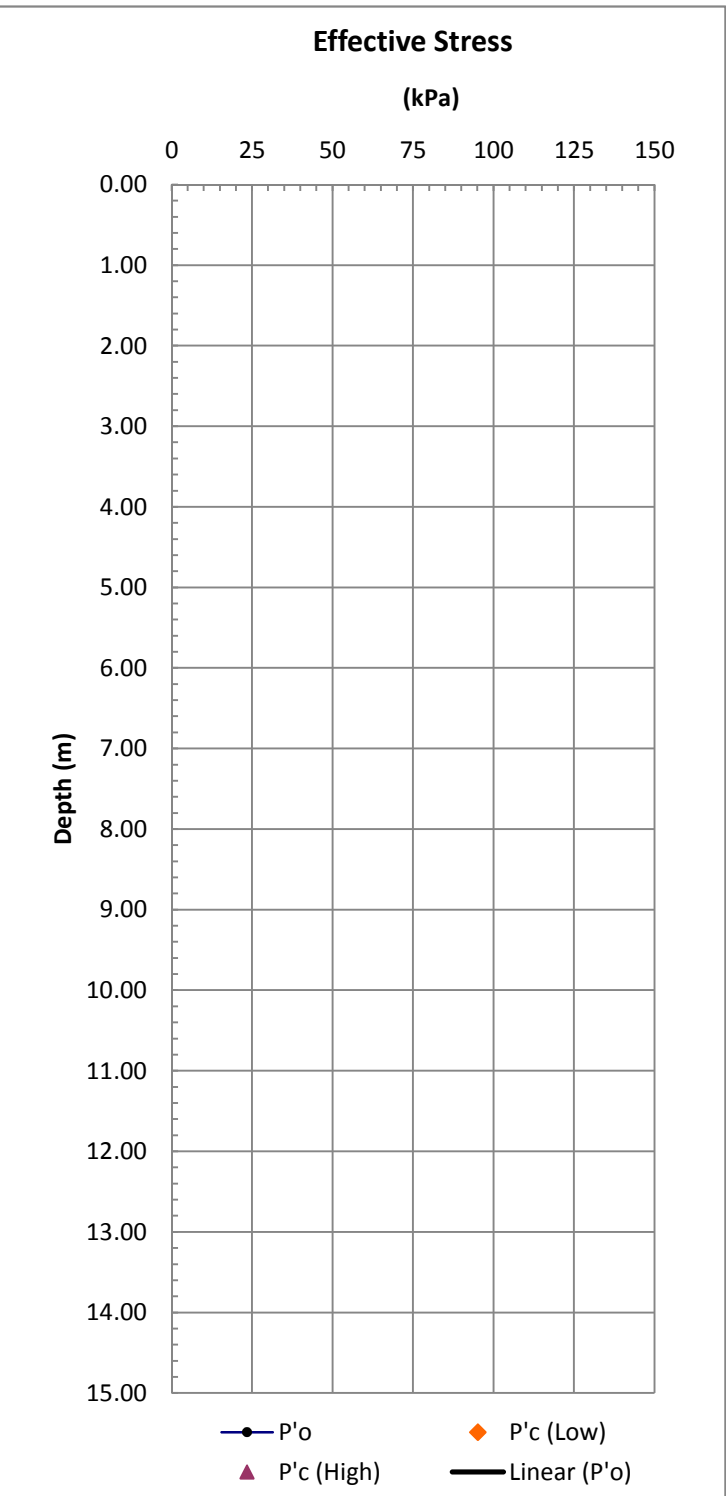
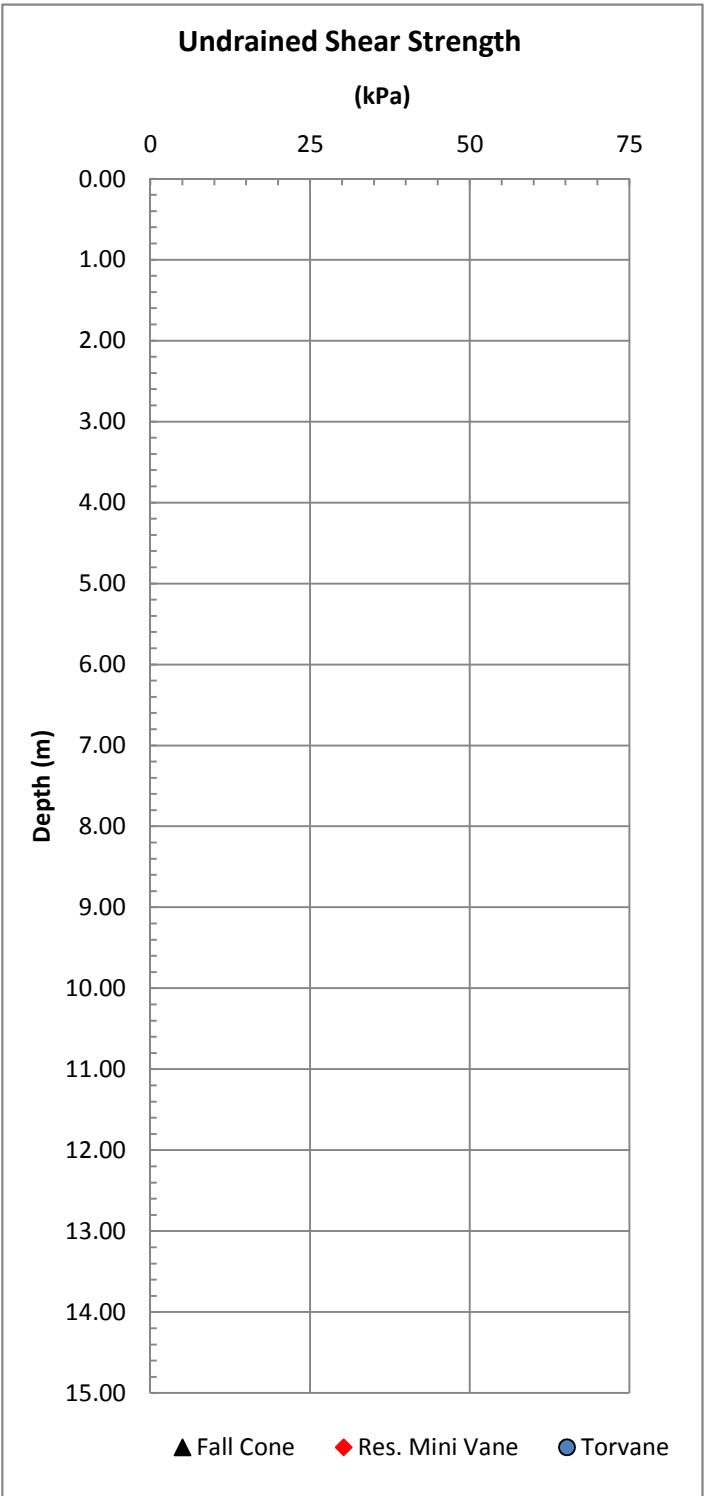
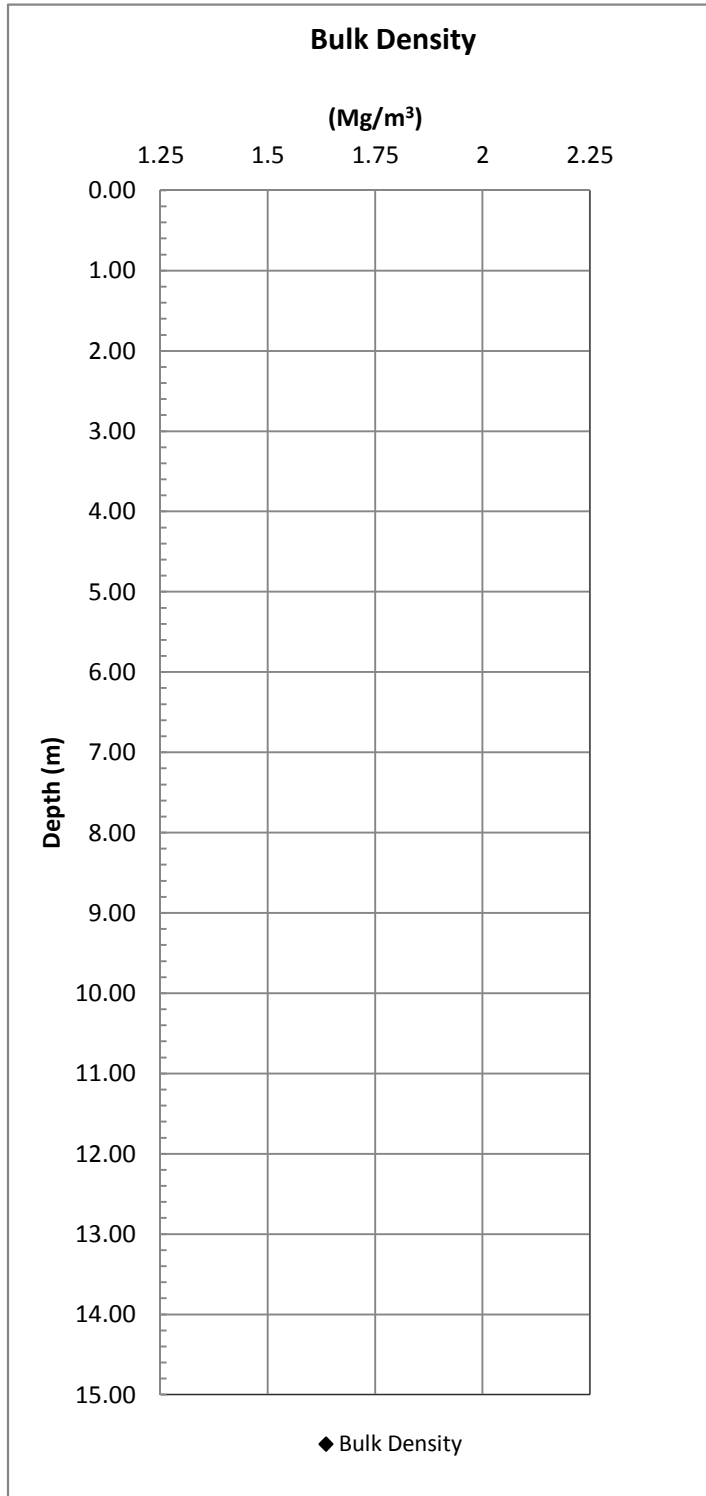


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Figure C.3

10033 Beaufort Data

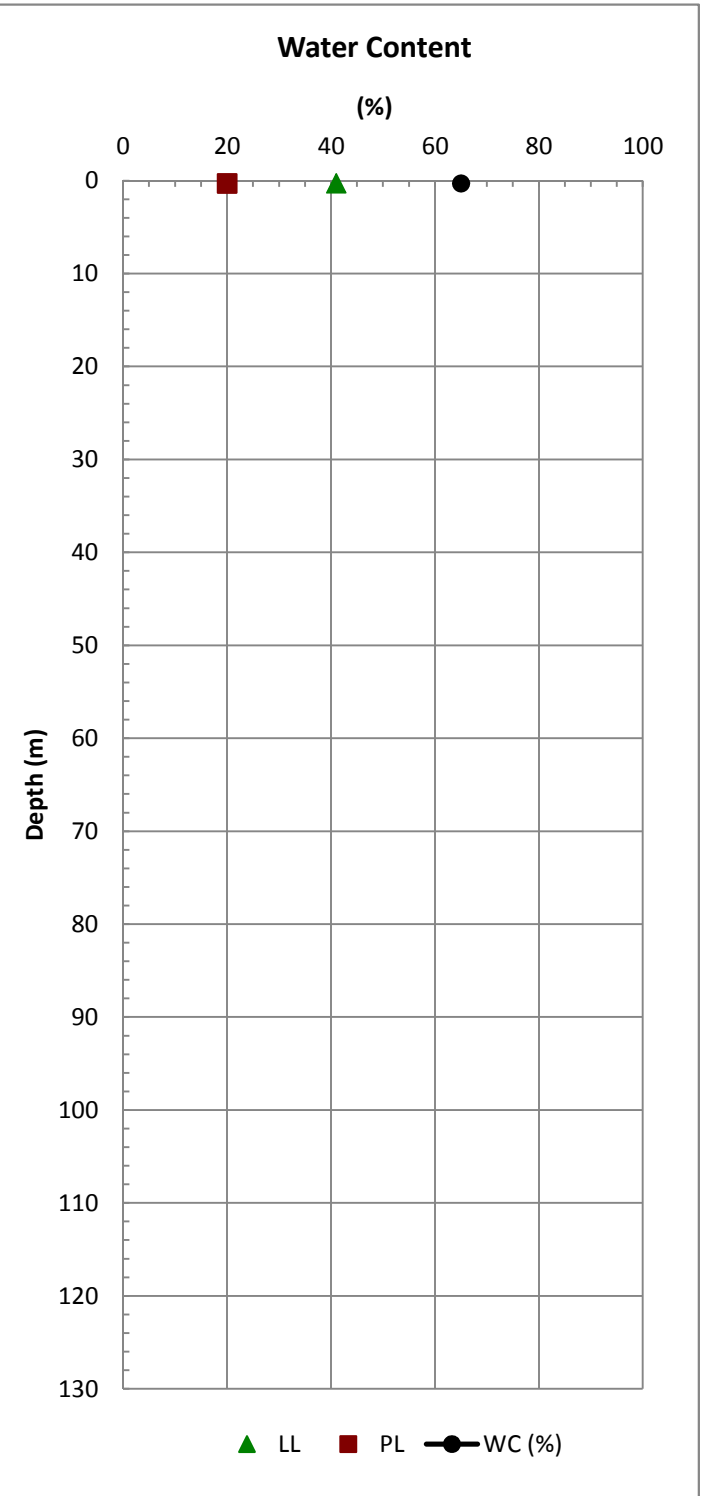
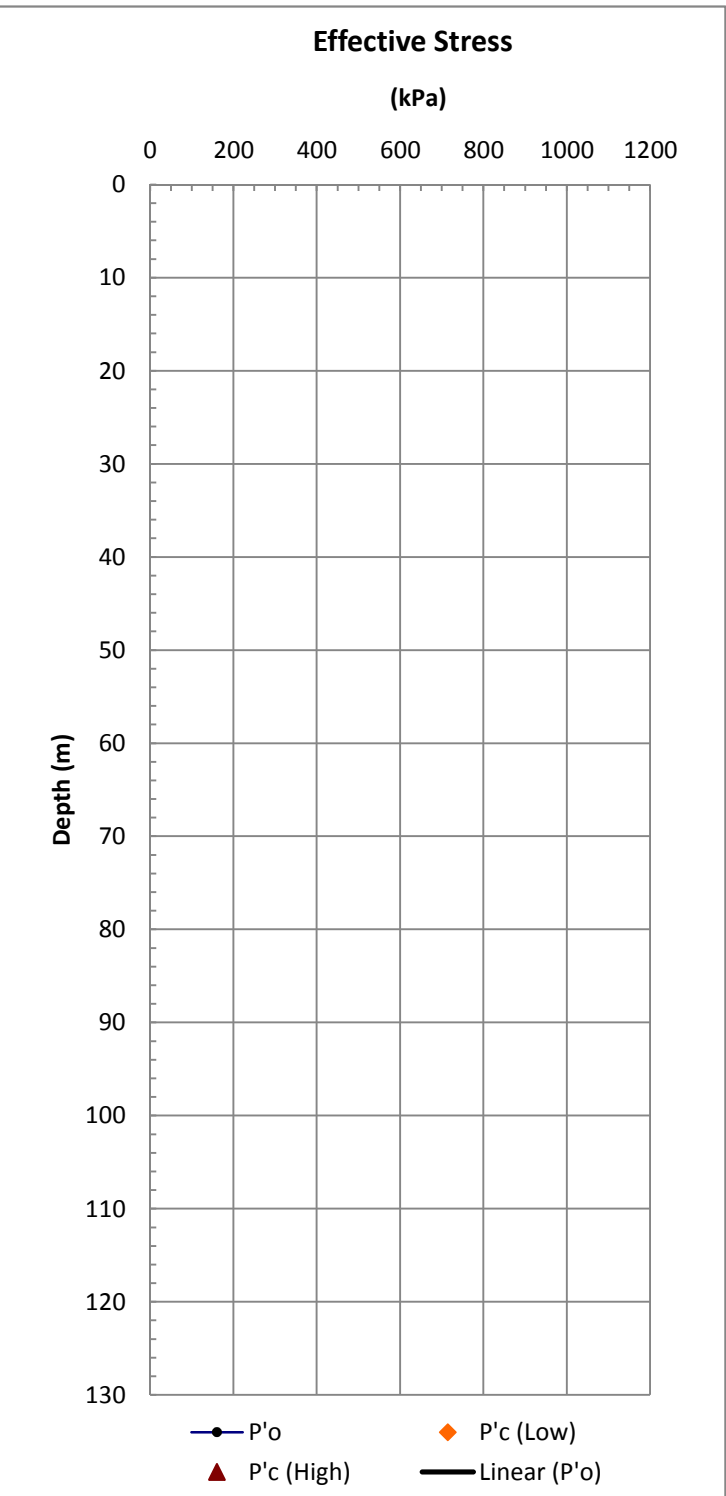
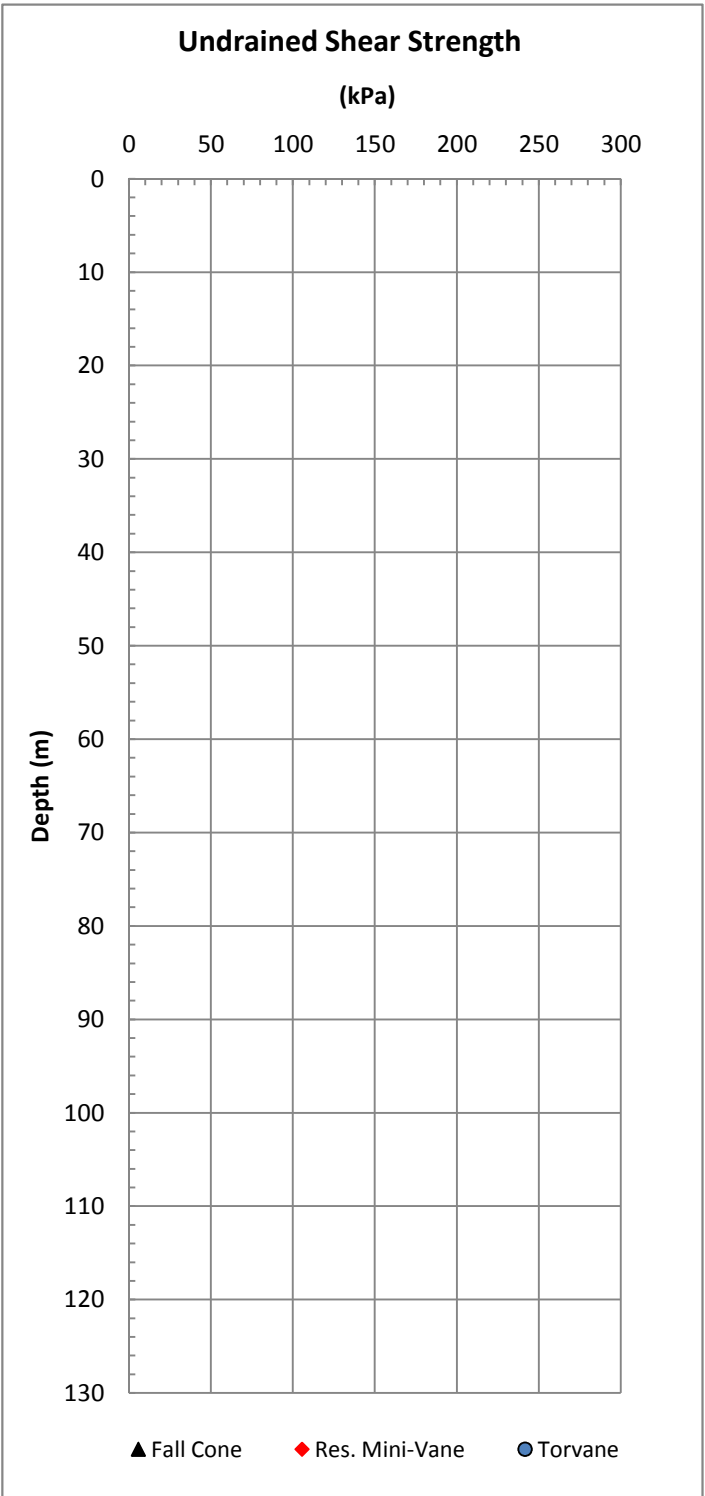
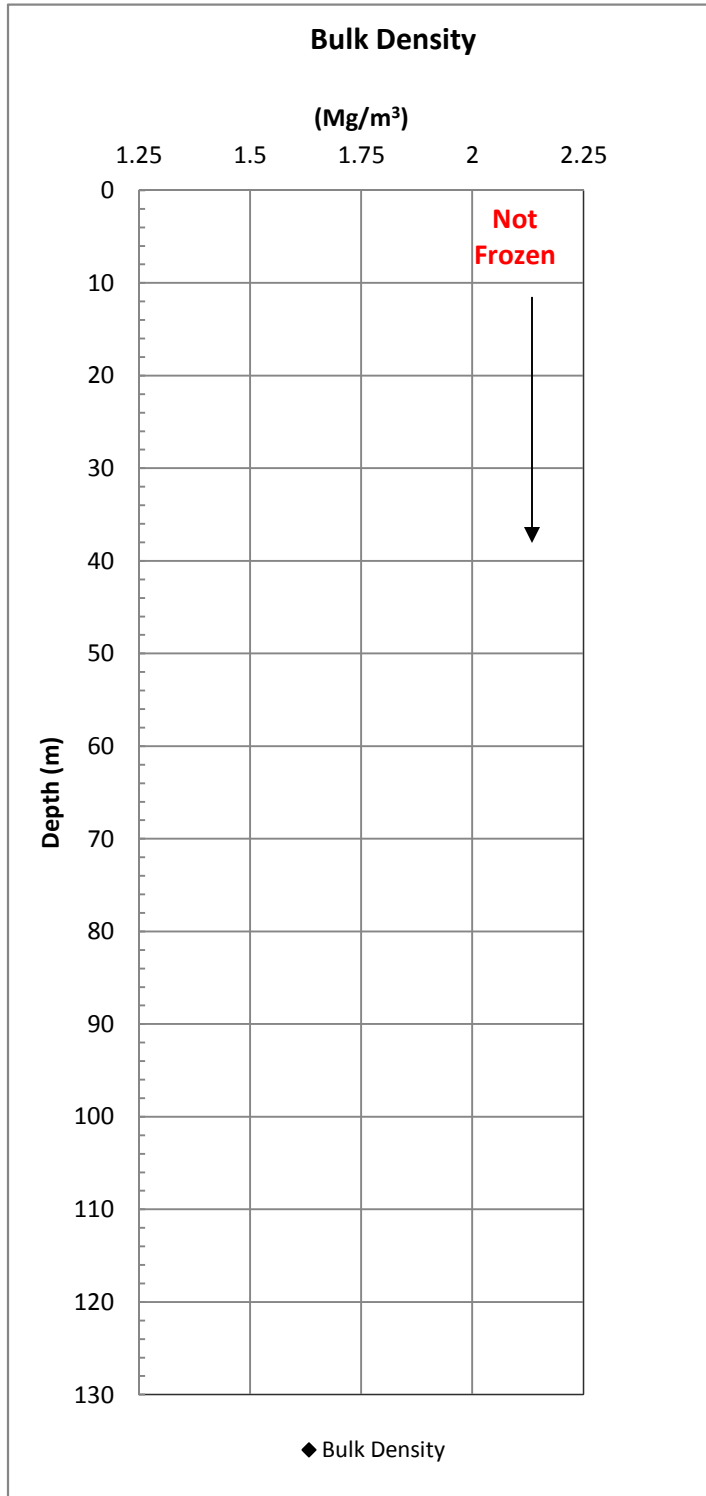


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Figure C.3

10033 Beaufort Data

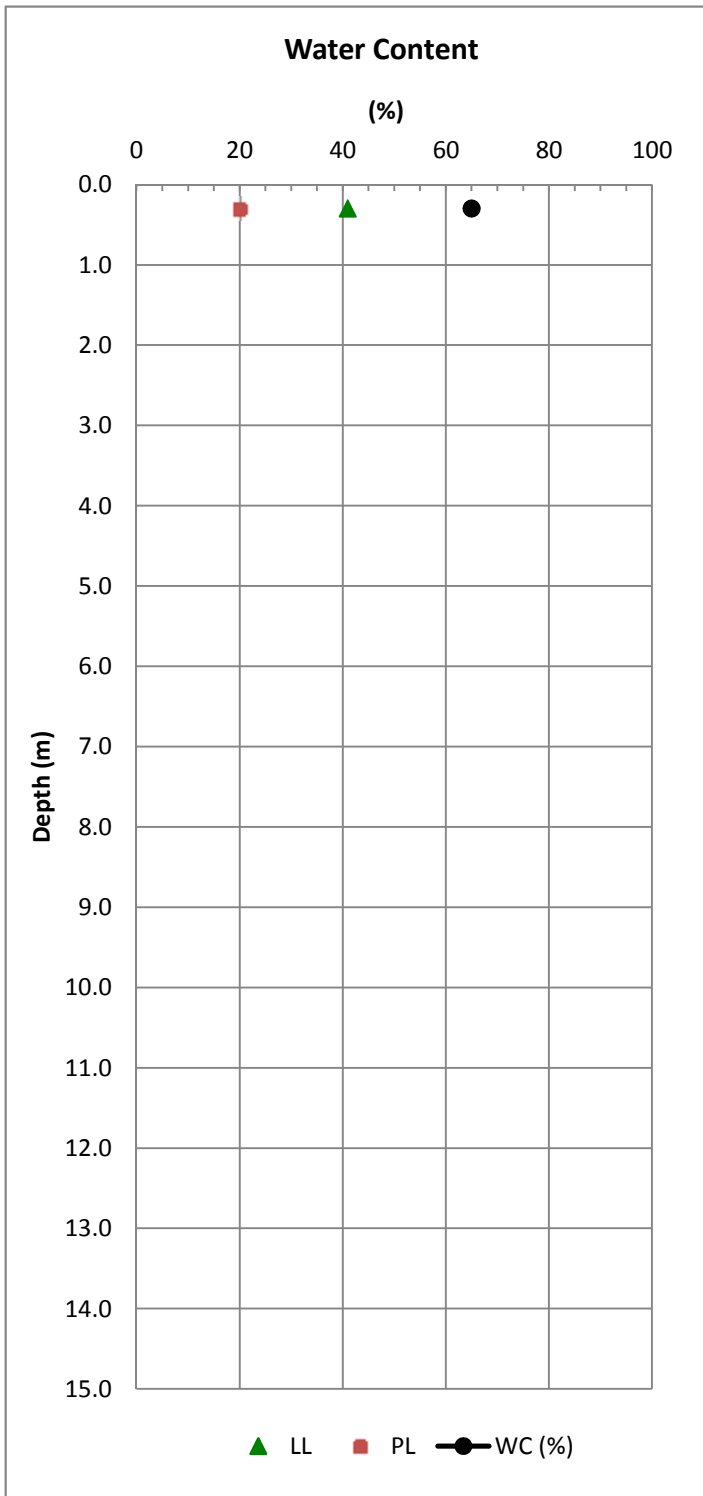
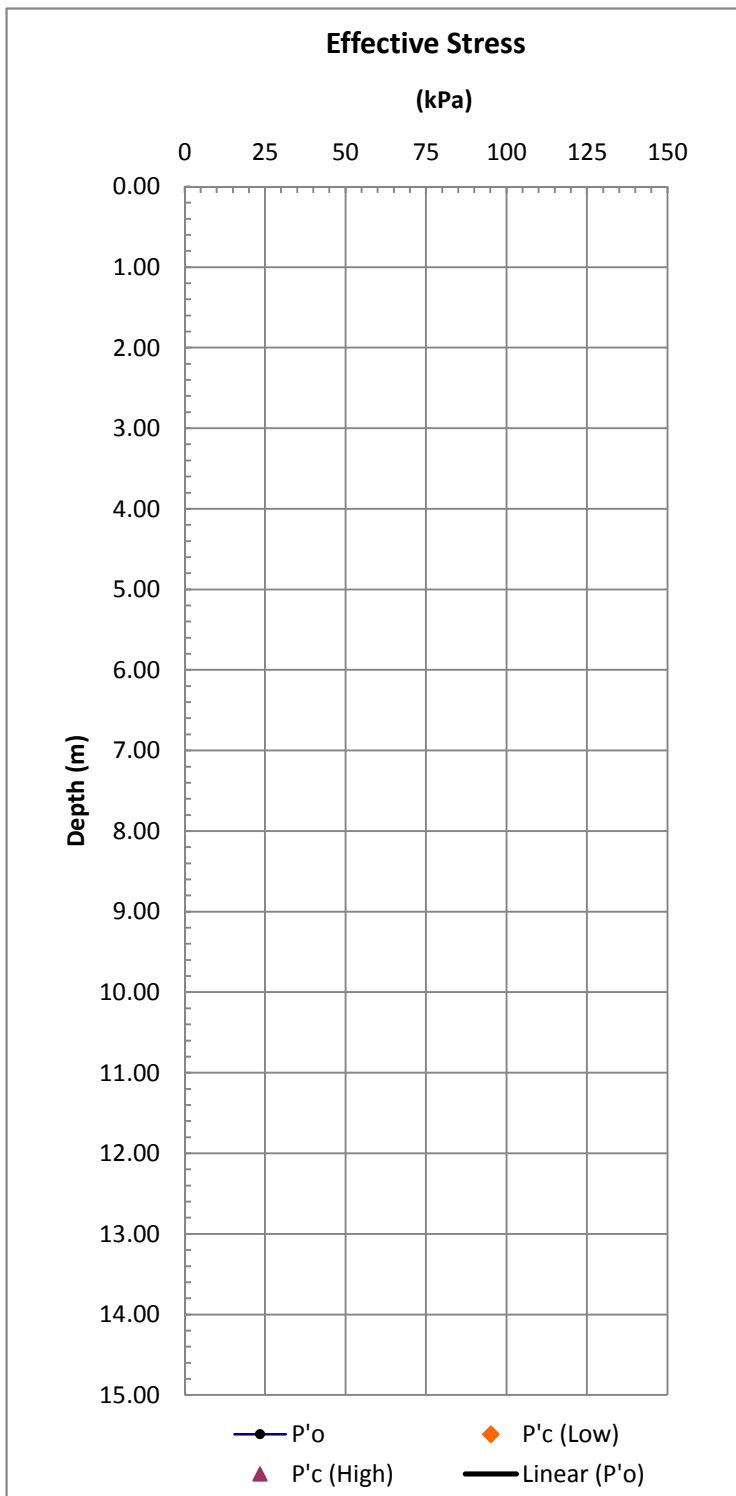
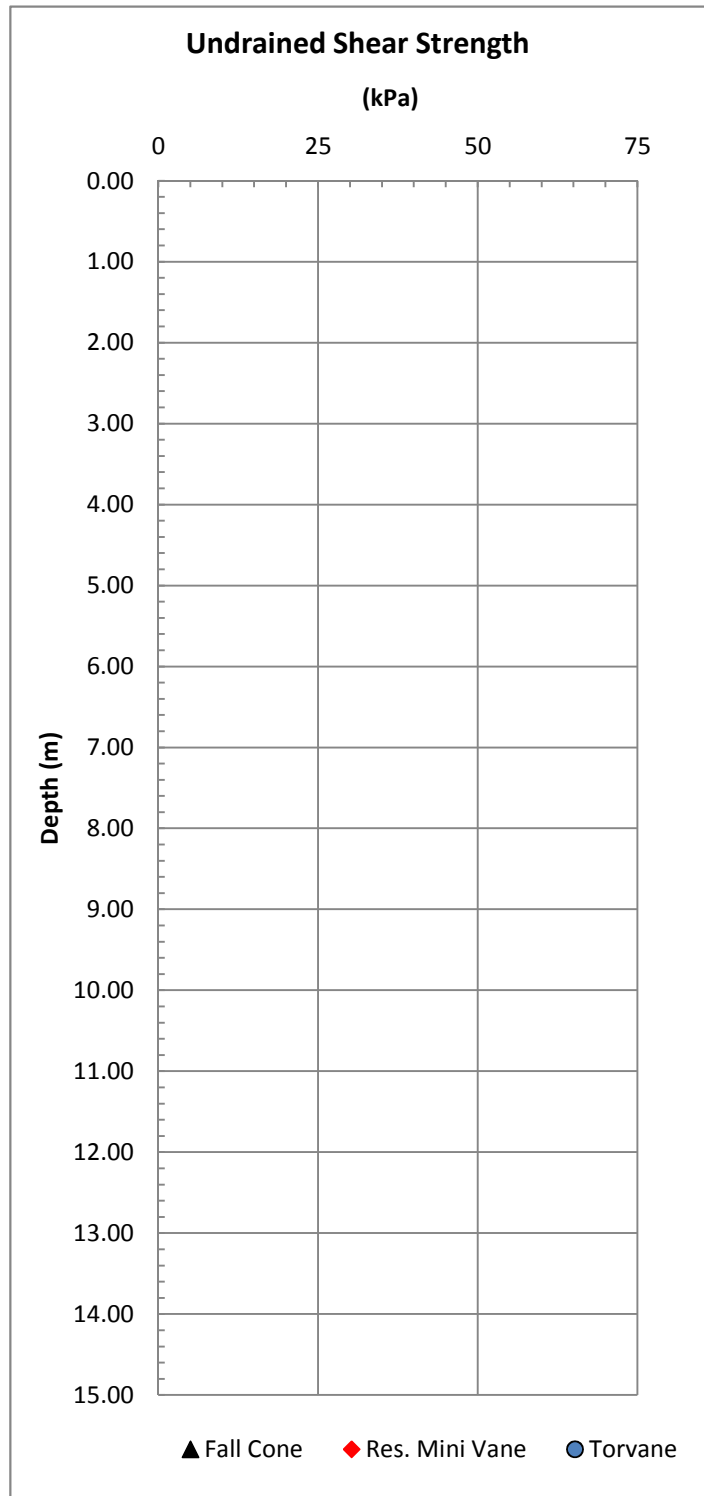
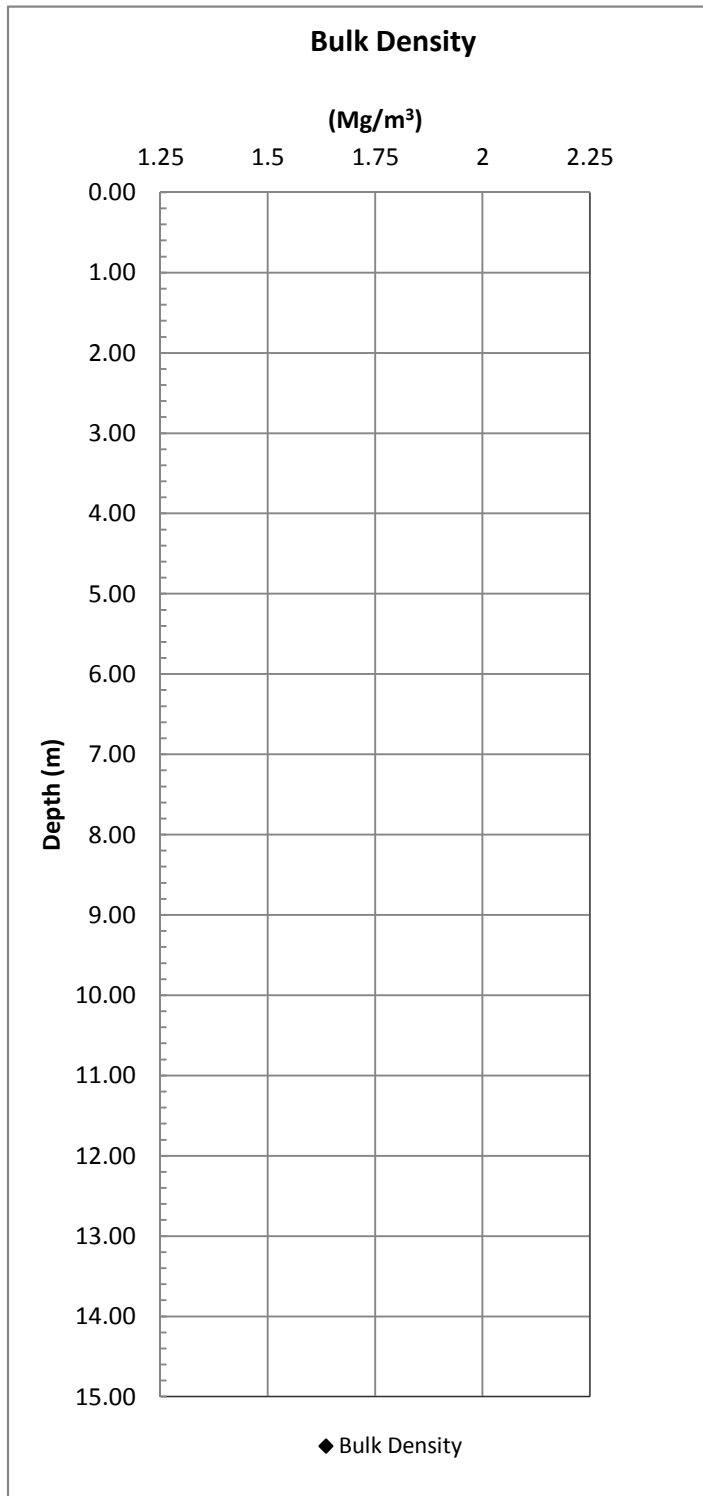


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Figure C.3

10033 Beaufort Data

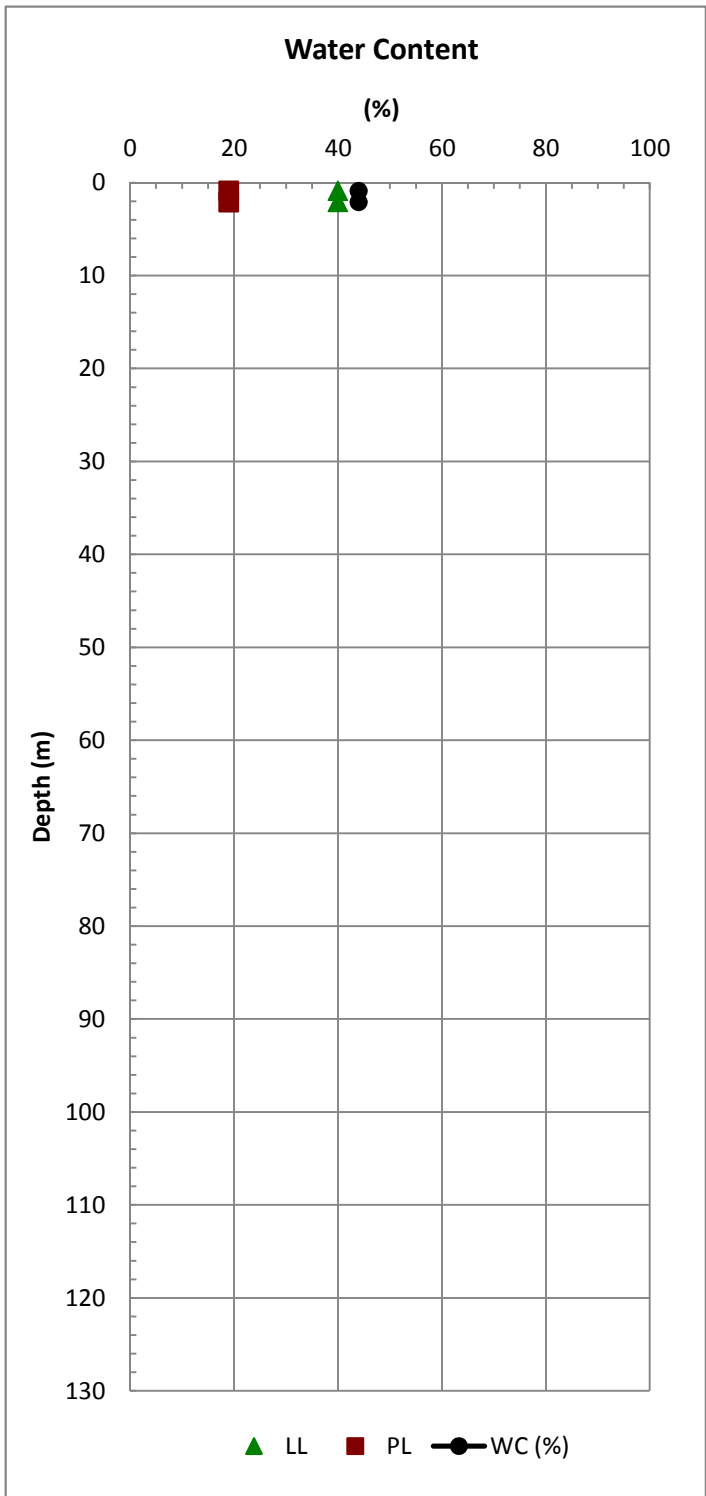
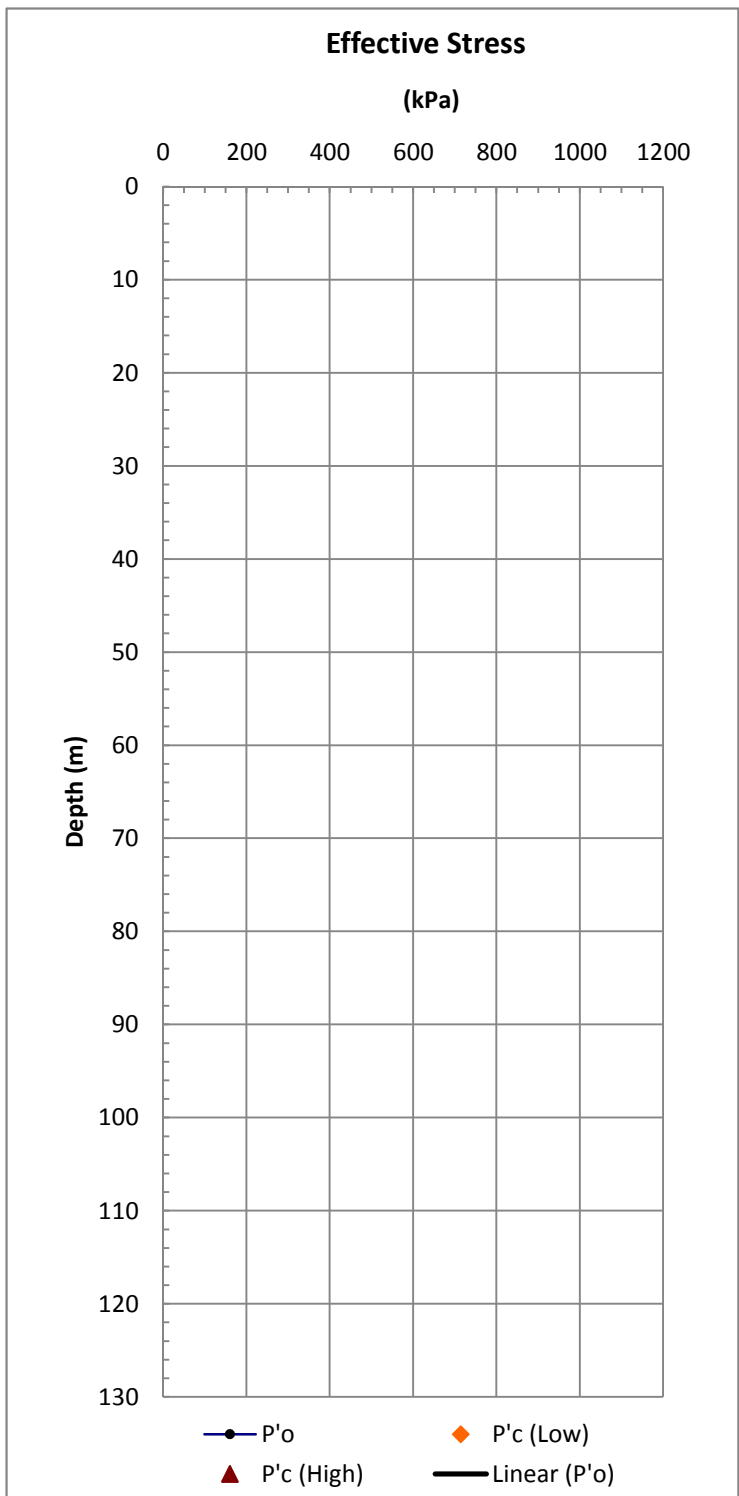
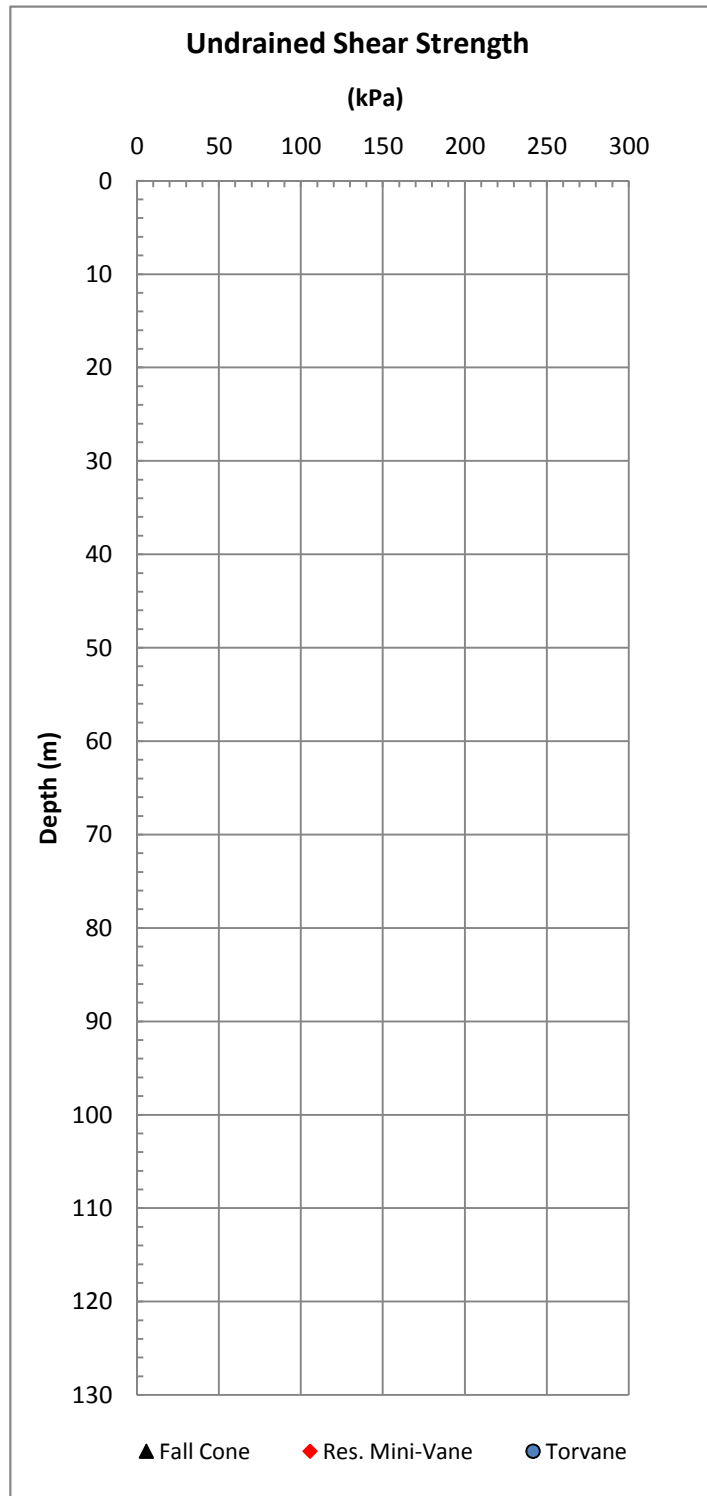
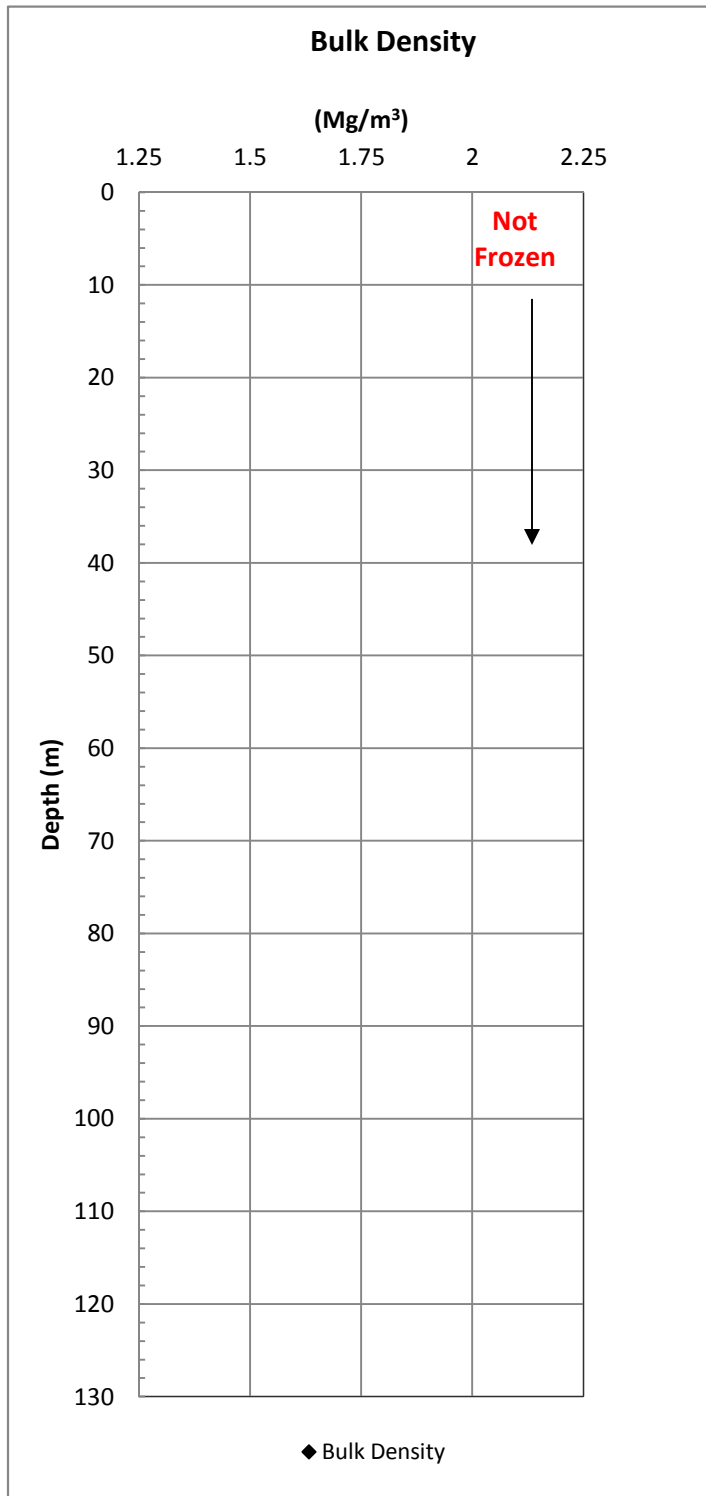


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Figure C.3

10033 Beaufort Data

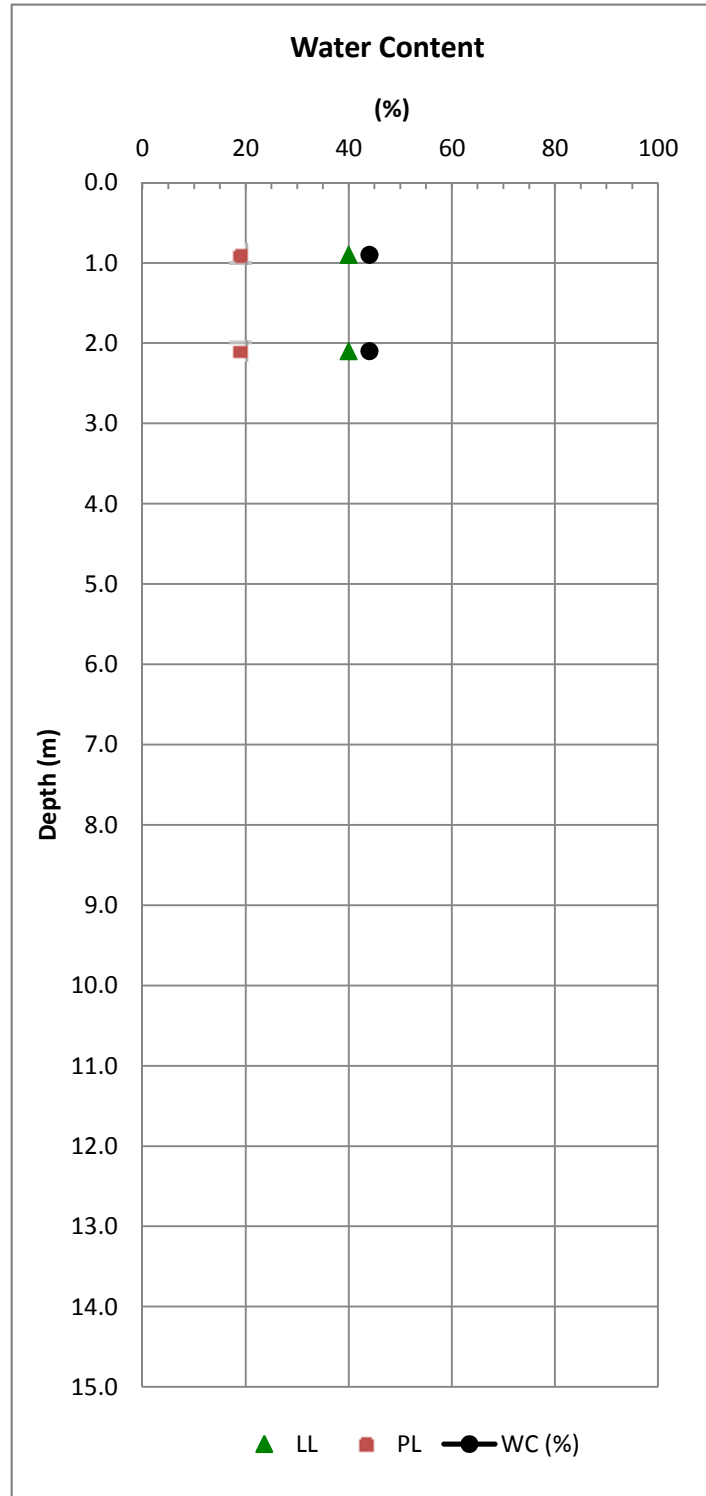
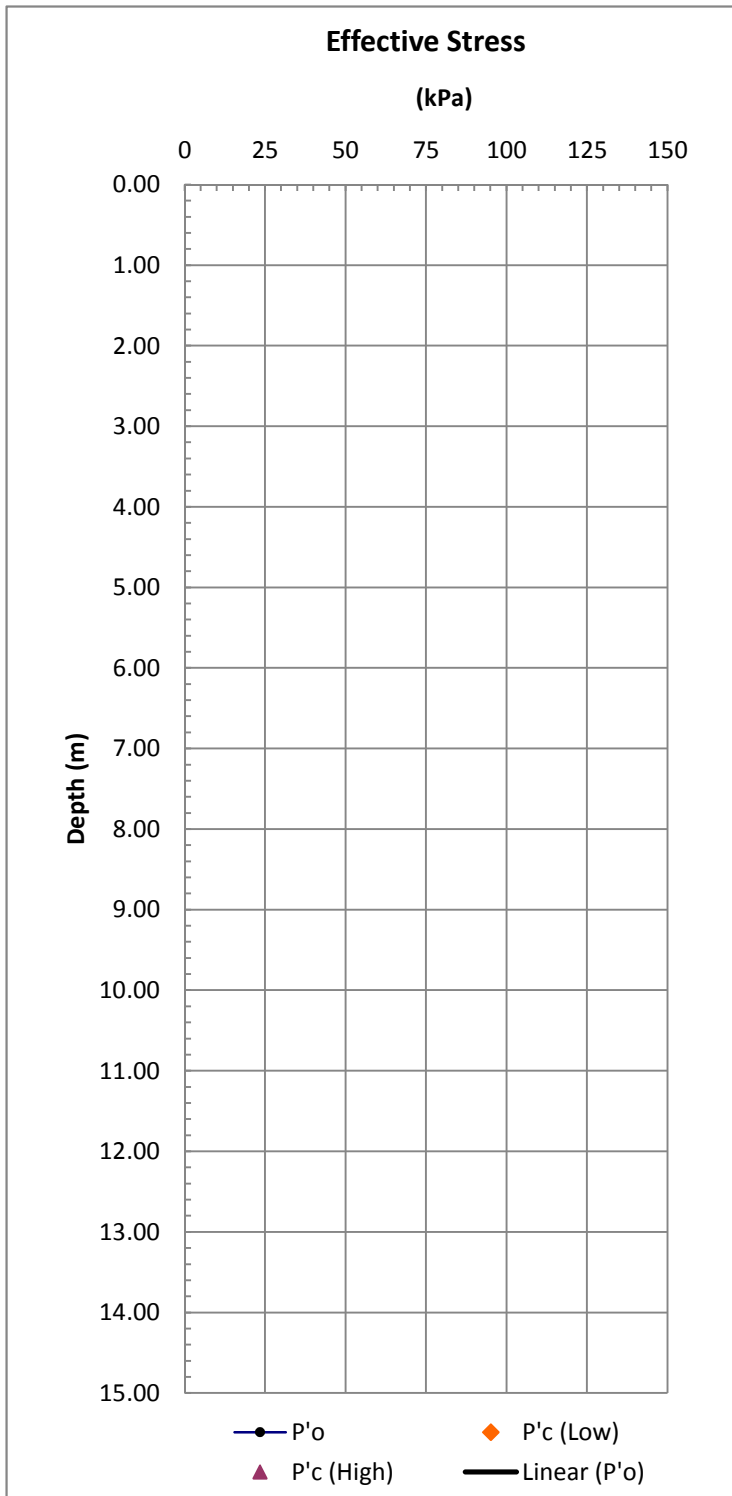
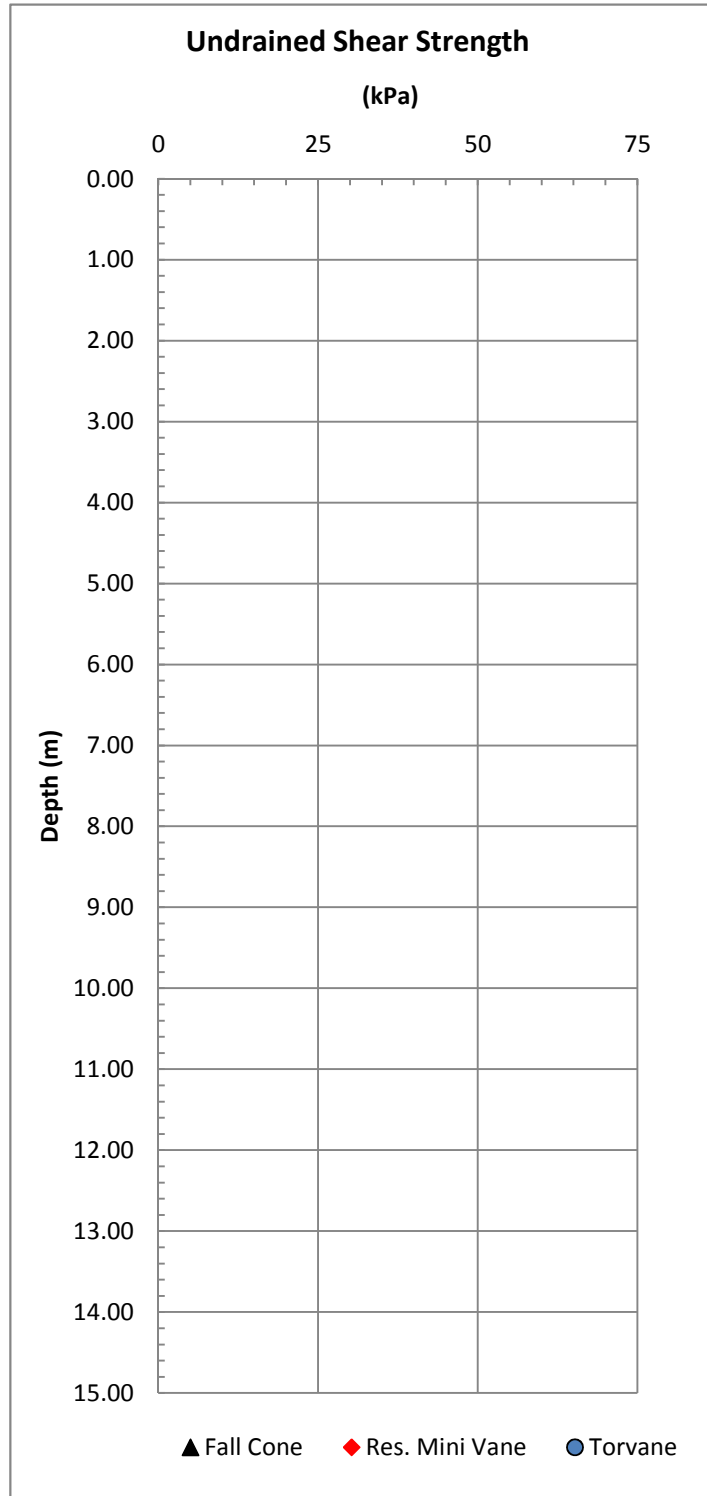
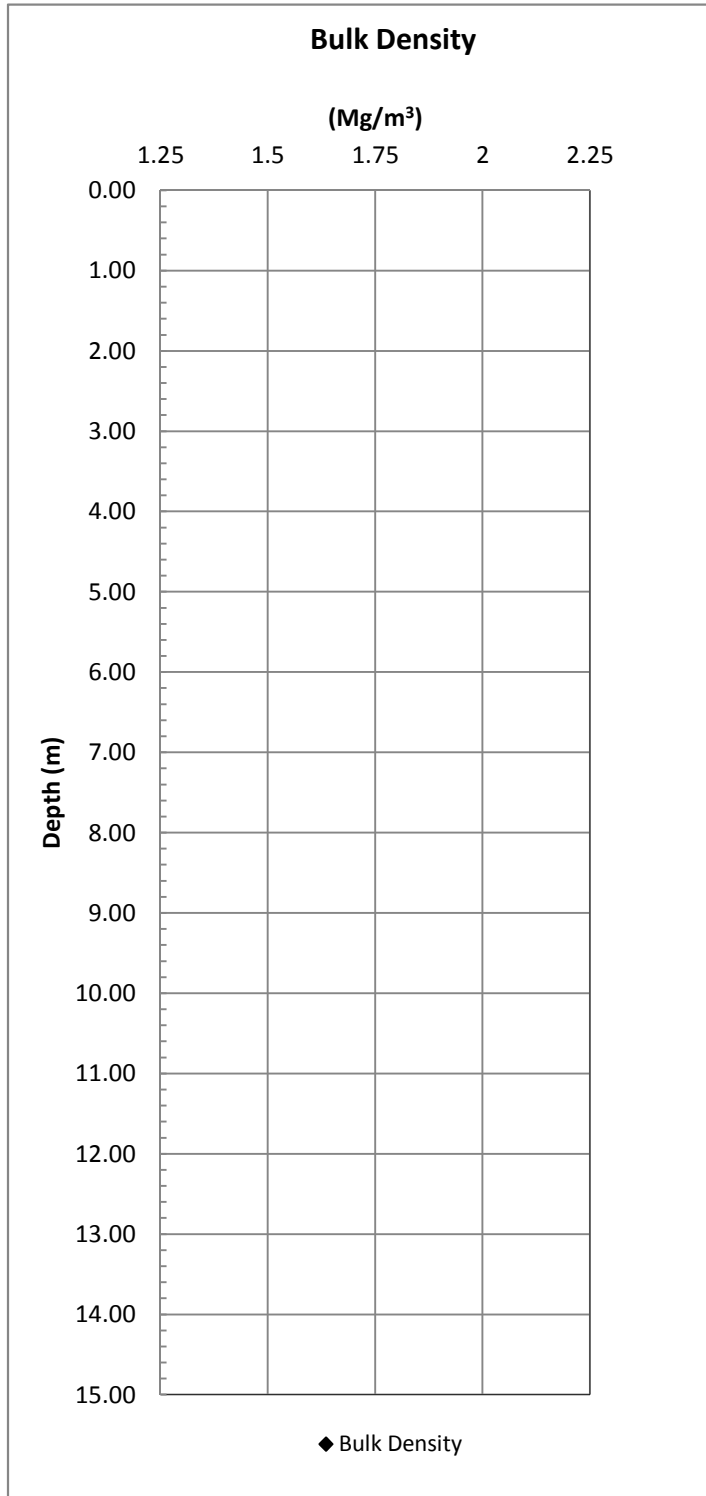


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Nerlerk V-Ner 2:25

Figure C.3

10033 Beaufort Data

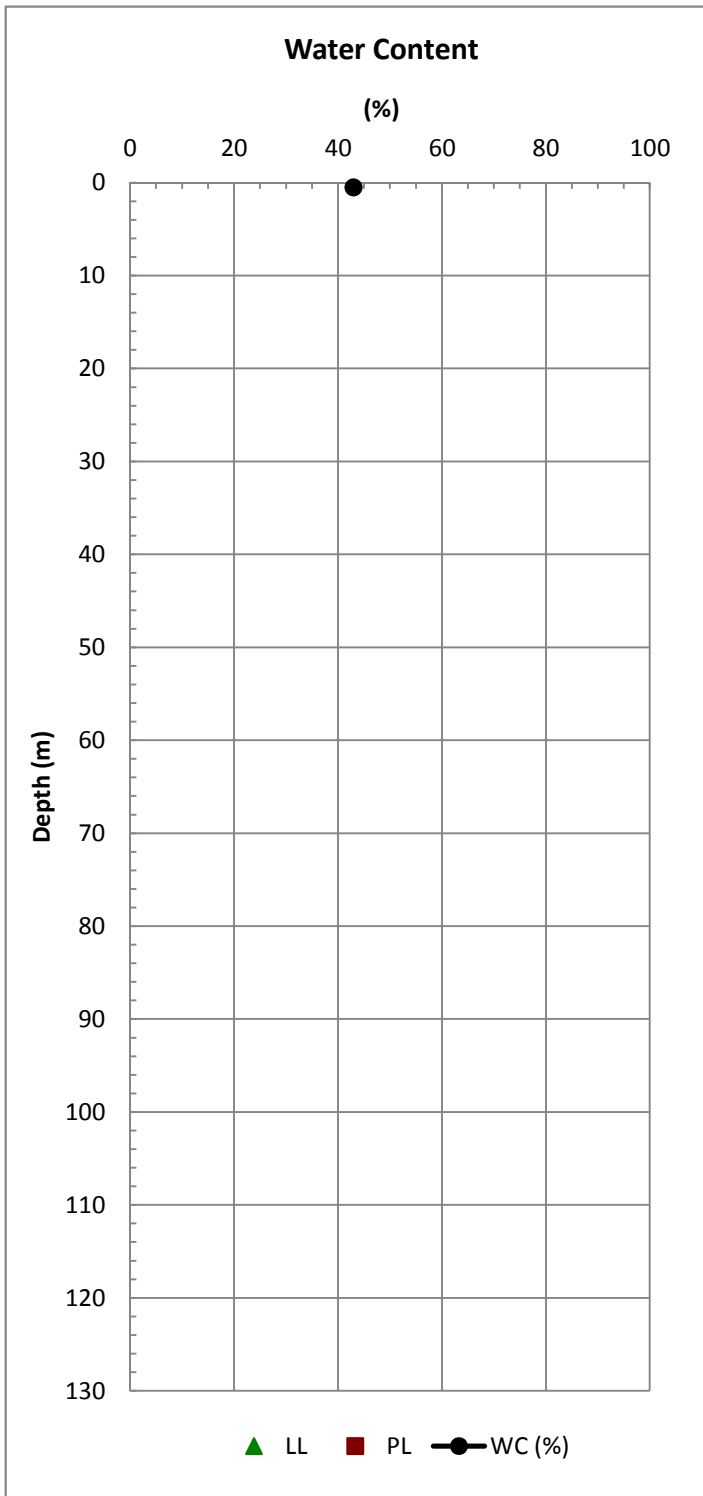
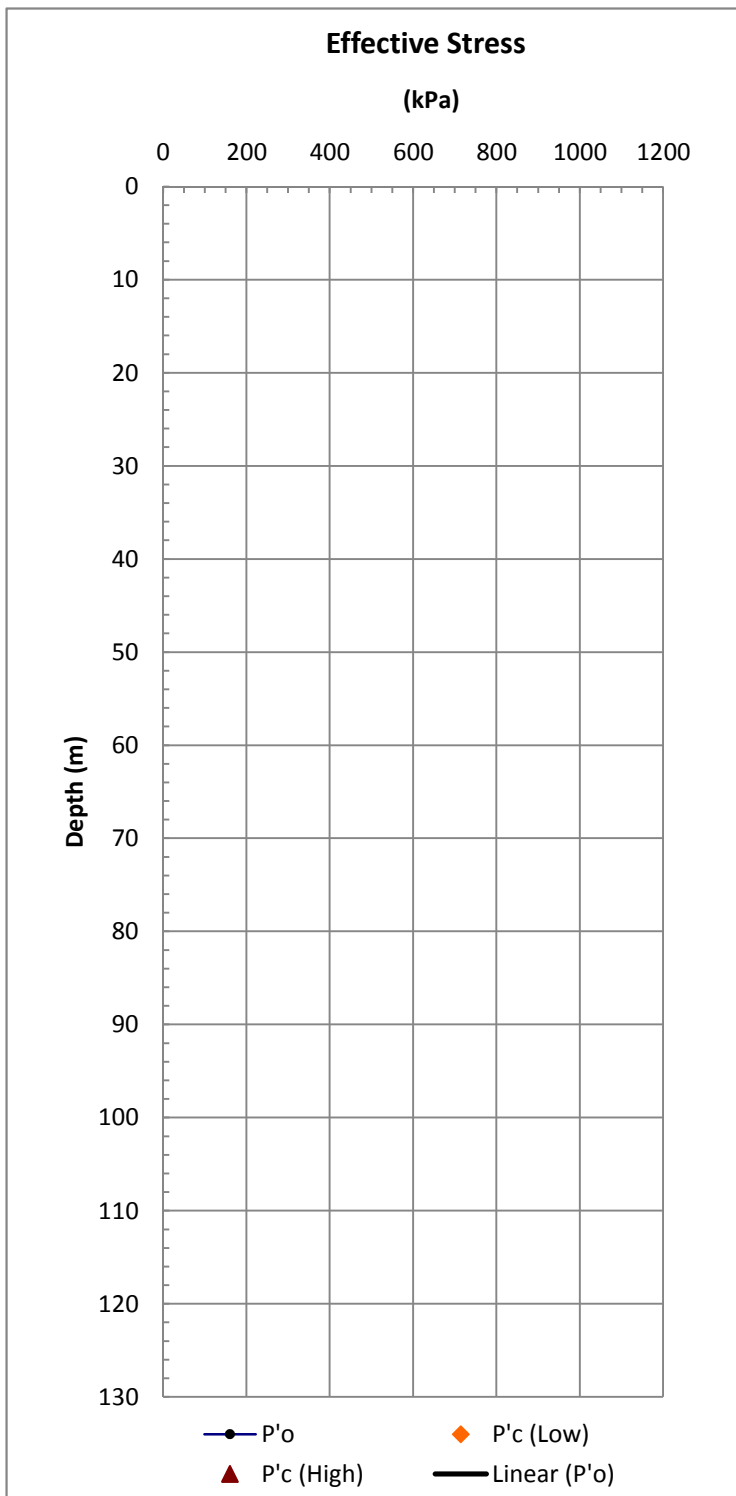
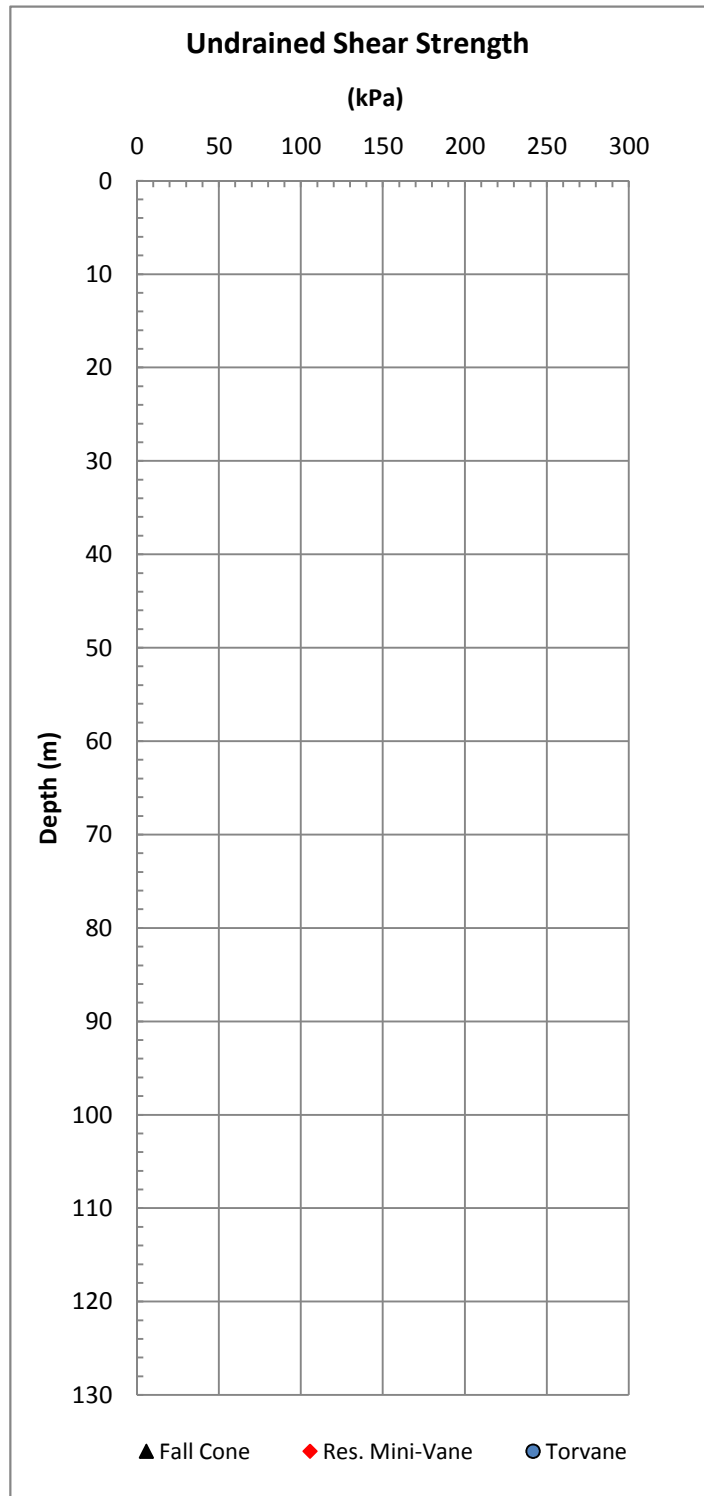
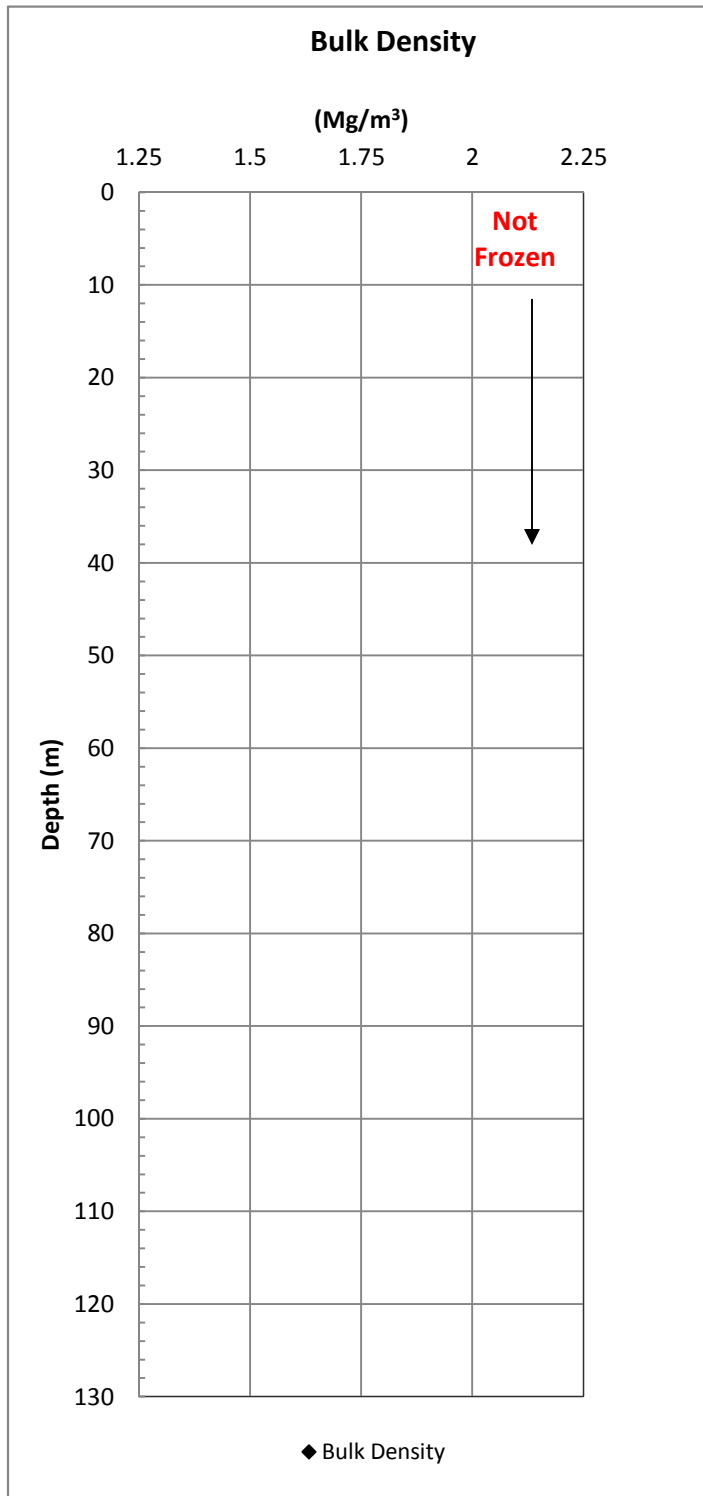


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Figure C.3

10033 Beaufort Data

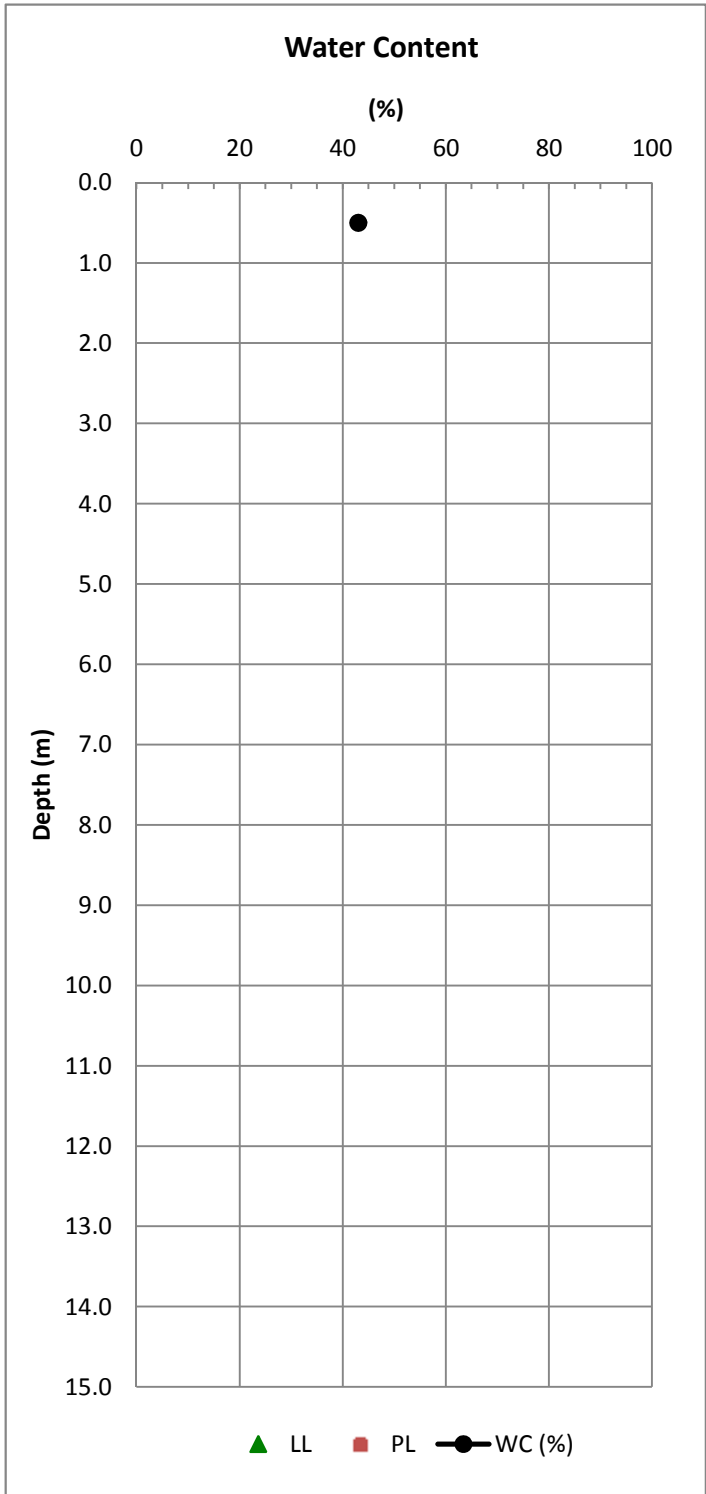
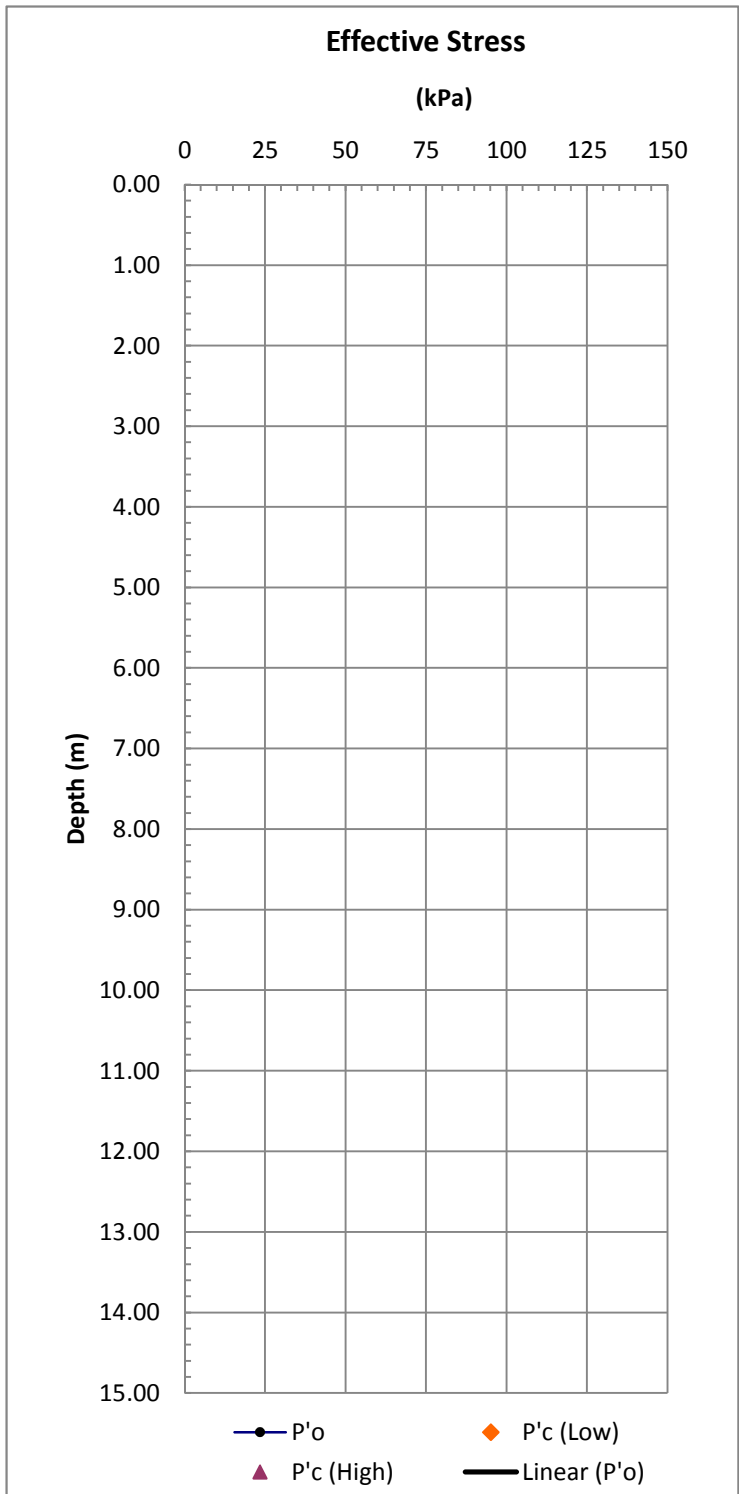
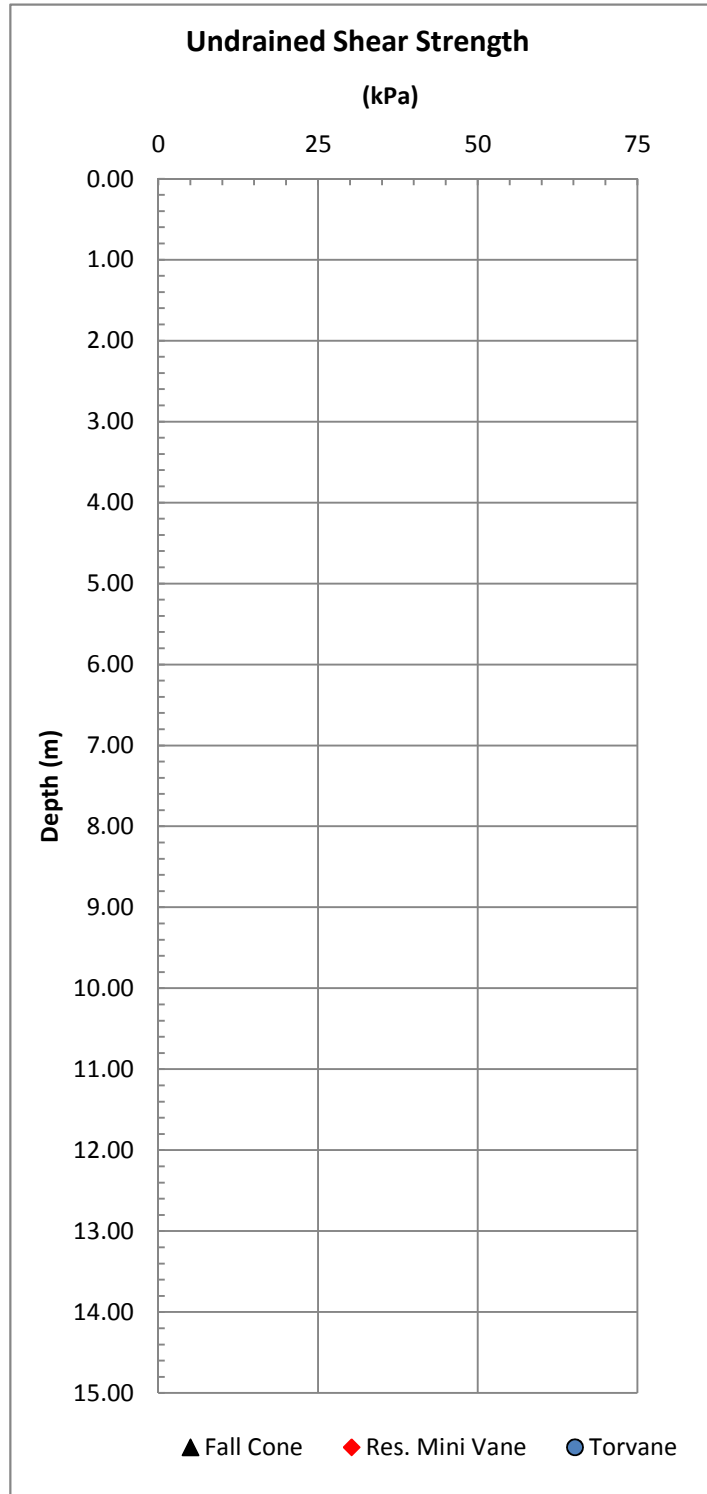
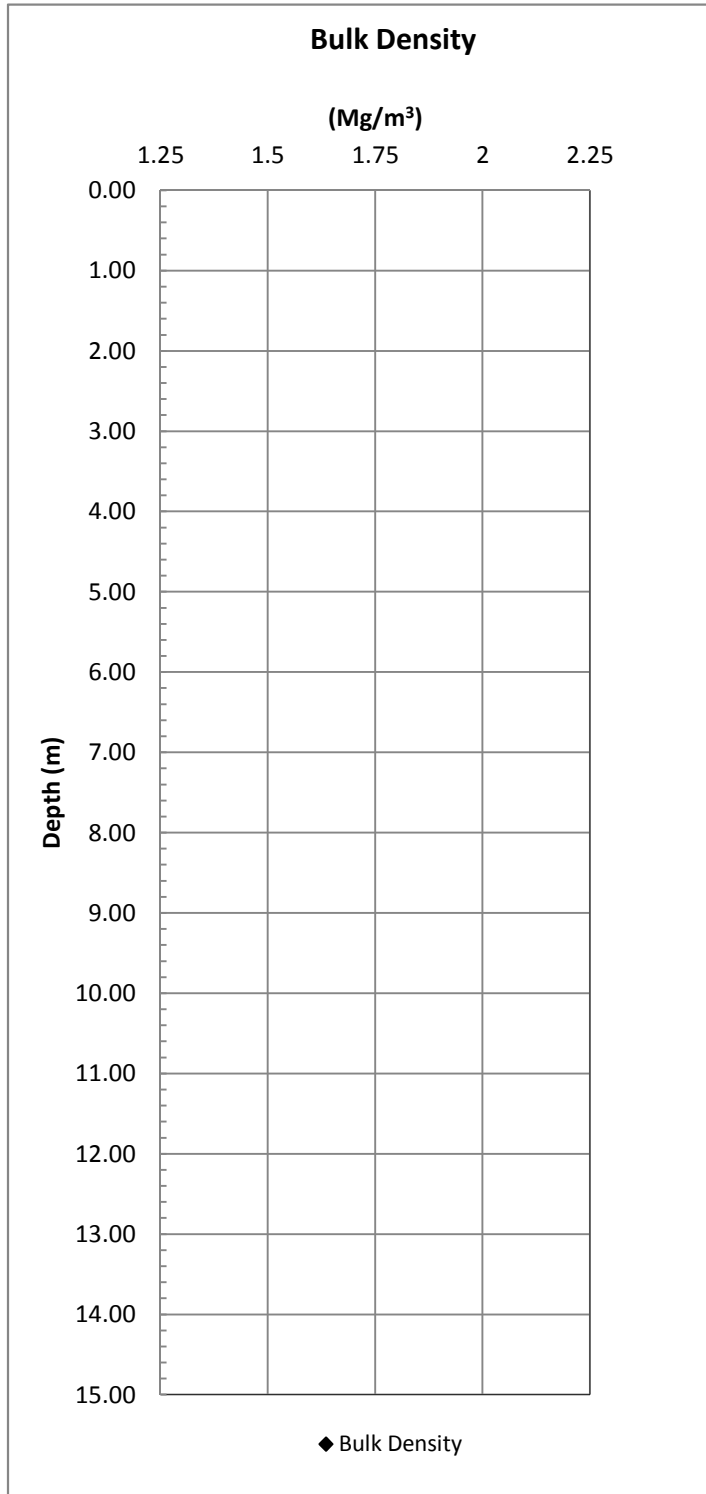


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Nerlerk V-Ner 2:26

Figure C.3

10033 Beaufort Data

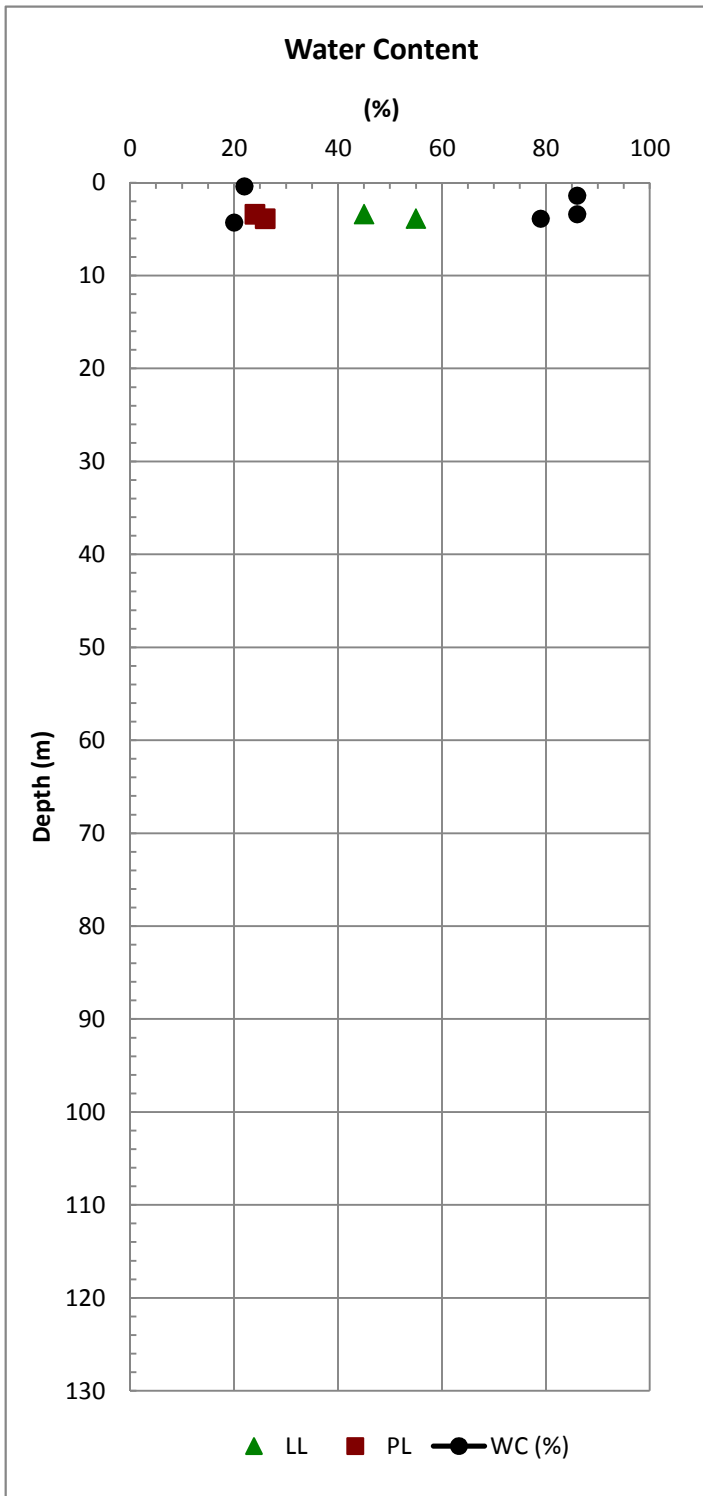
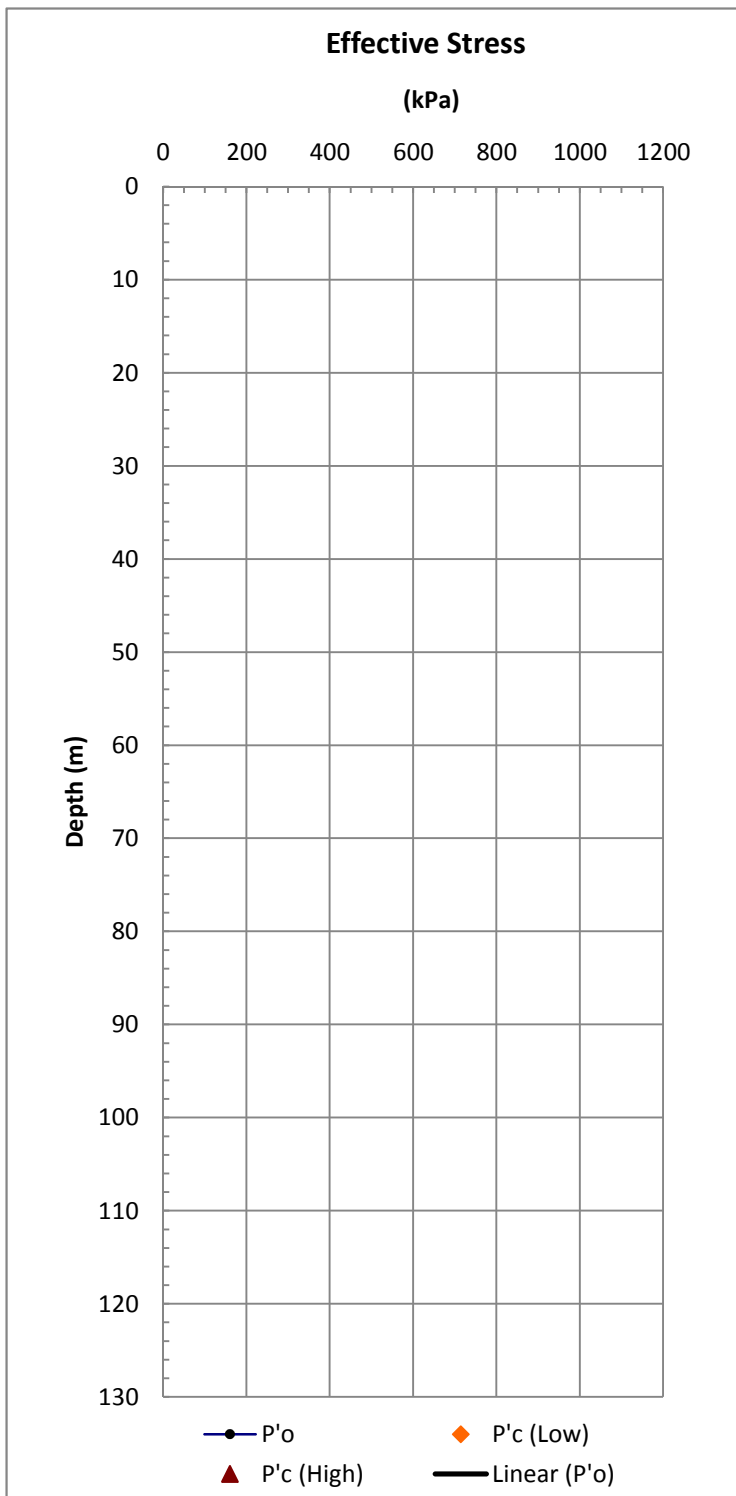
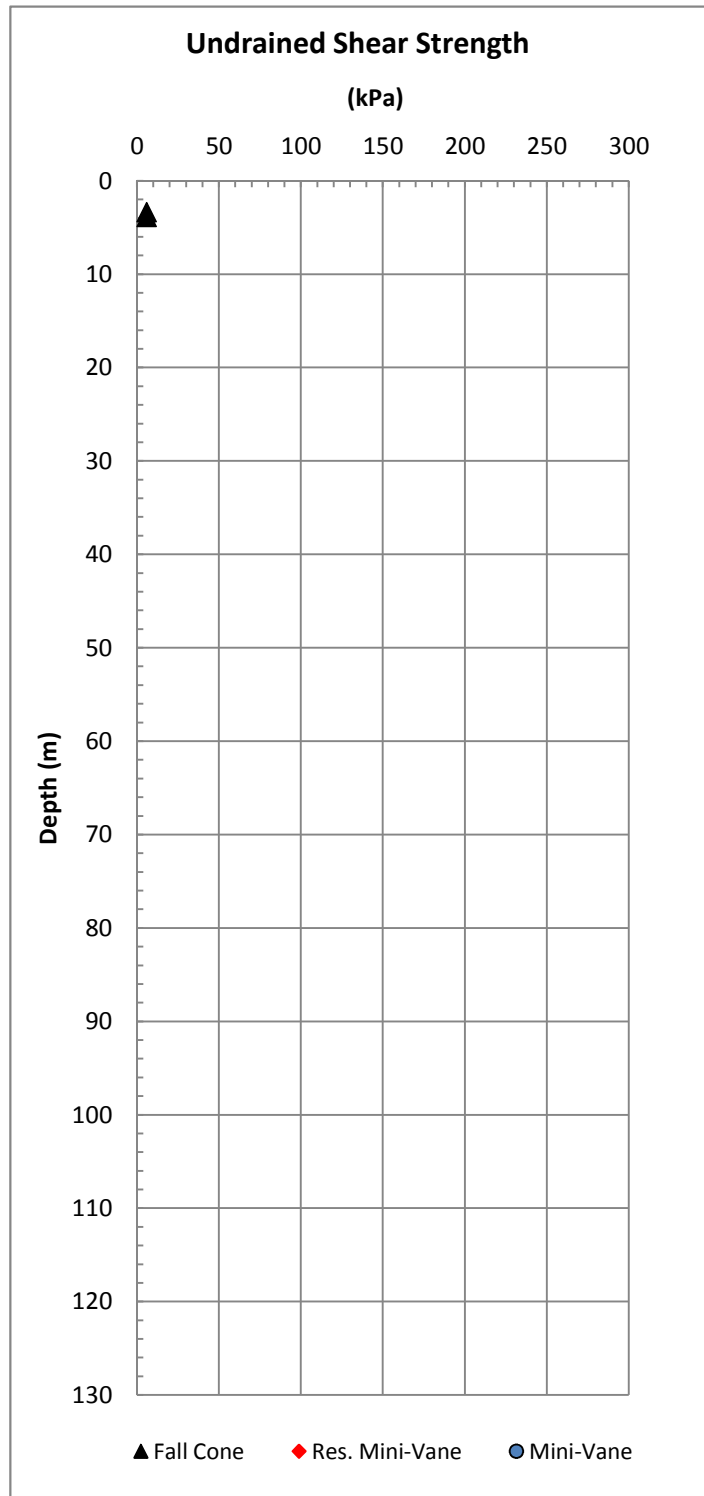
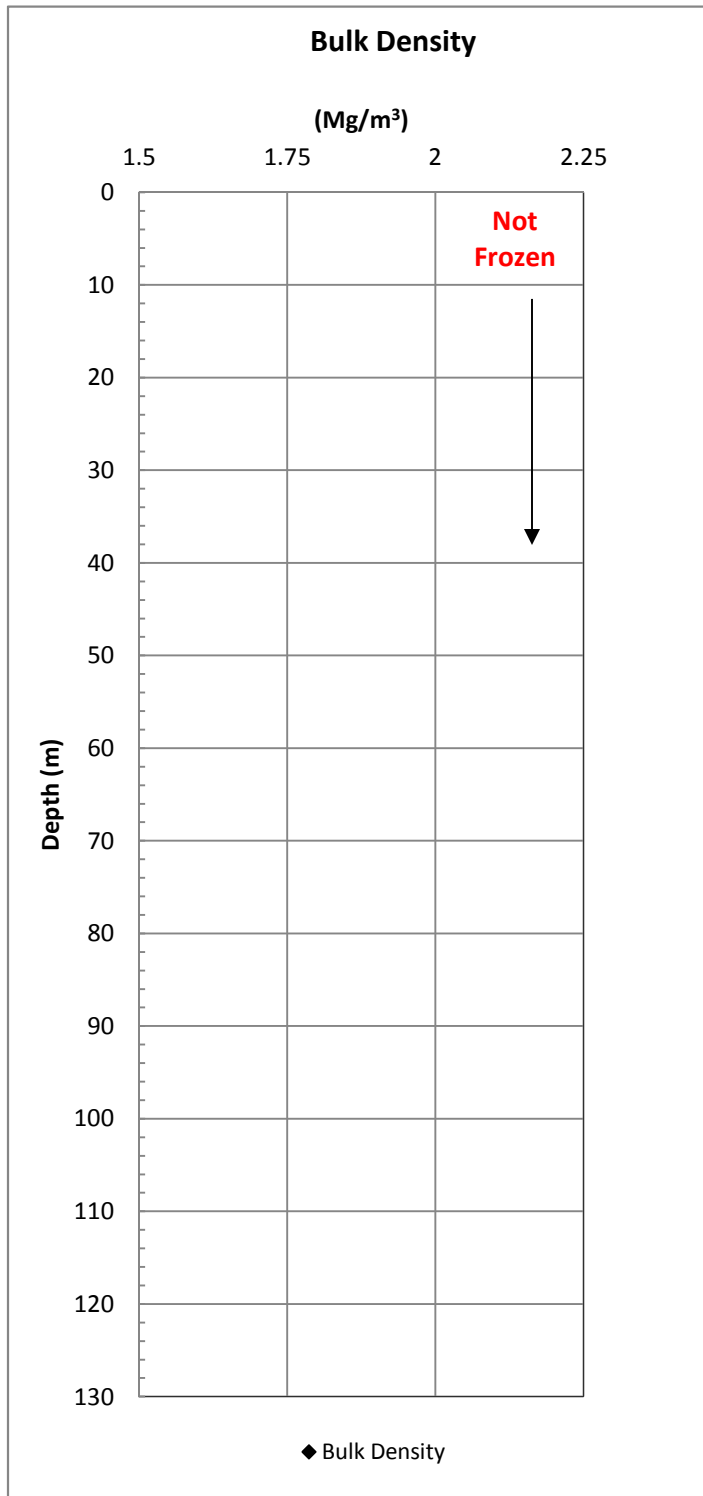


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Nerlerk V-Ner 2:26

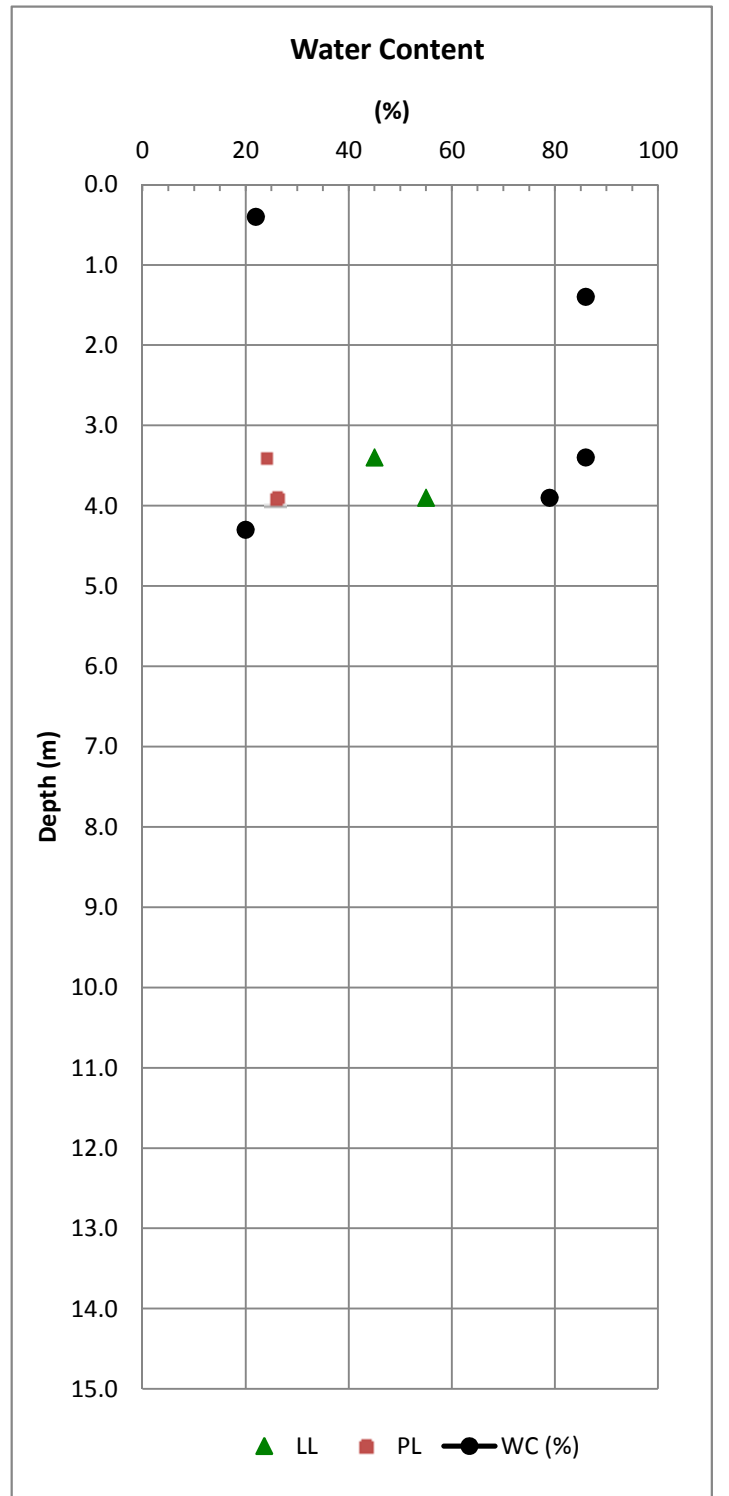
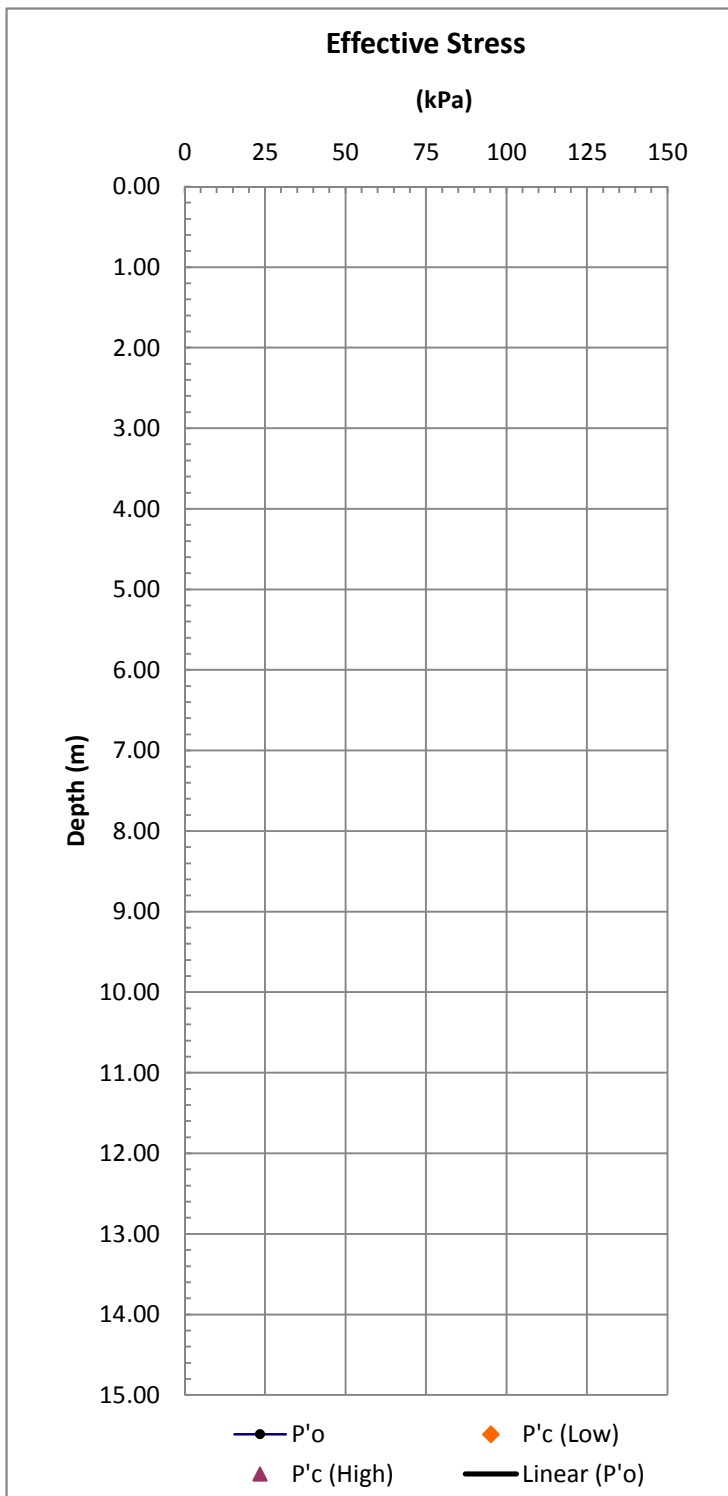
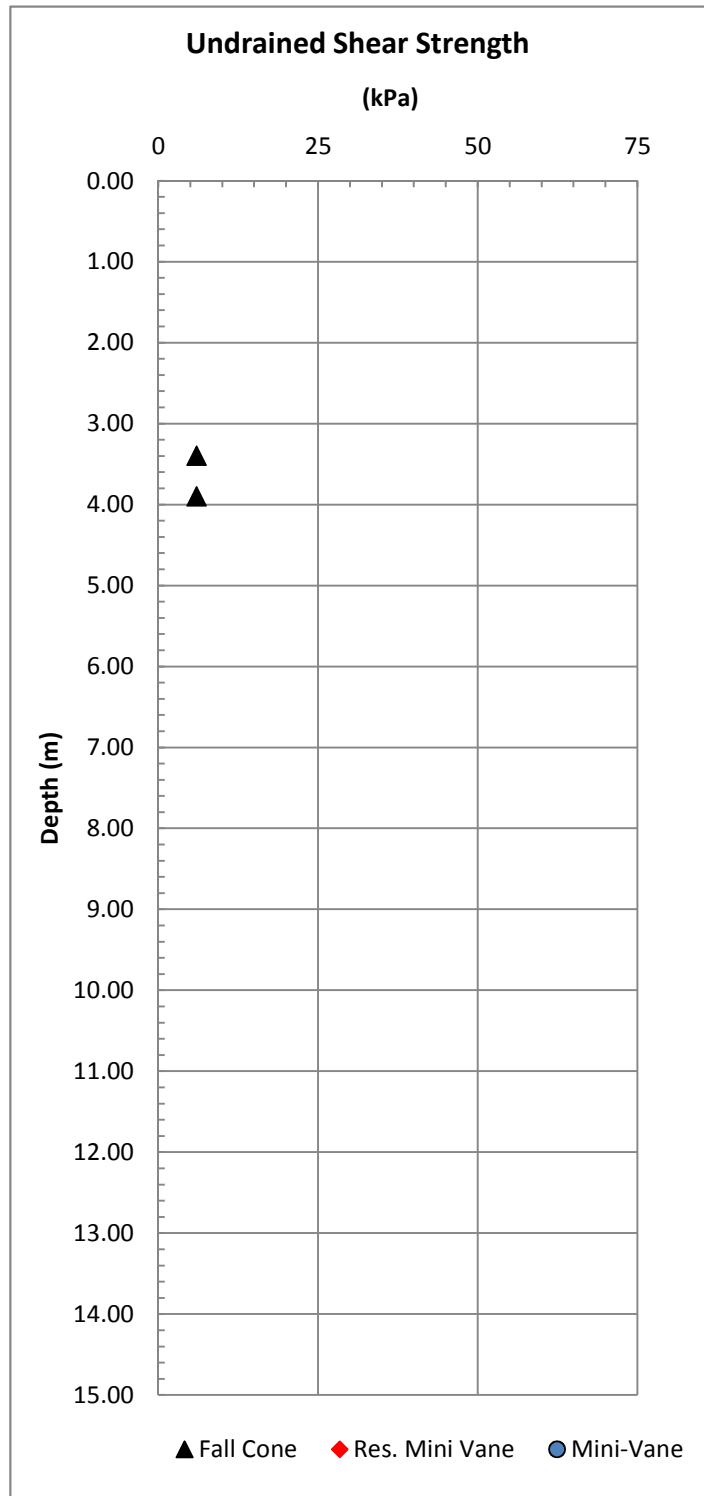
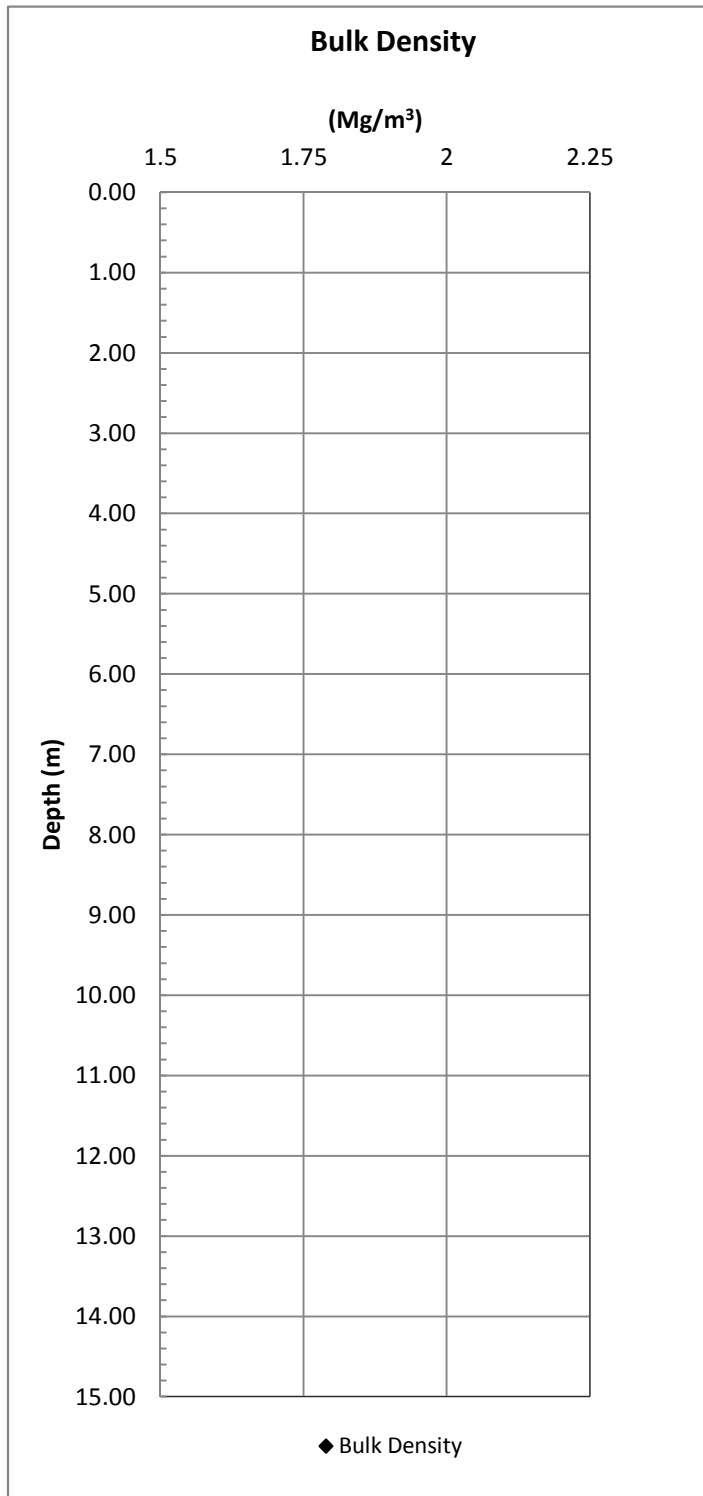
Figure C.3

10033 Beaufort Data



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Nerlerk V-Ner 2:4
Figure C.3
 10033 Beaufort Data

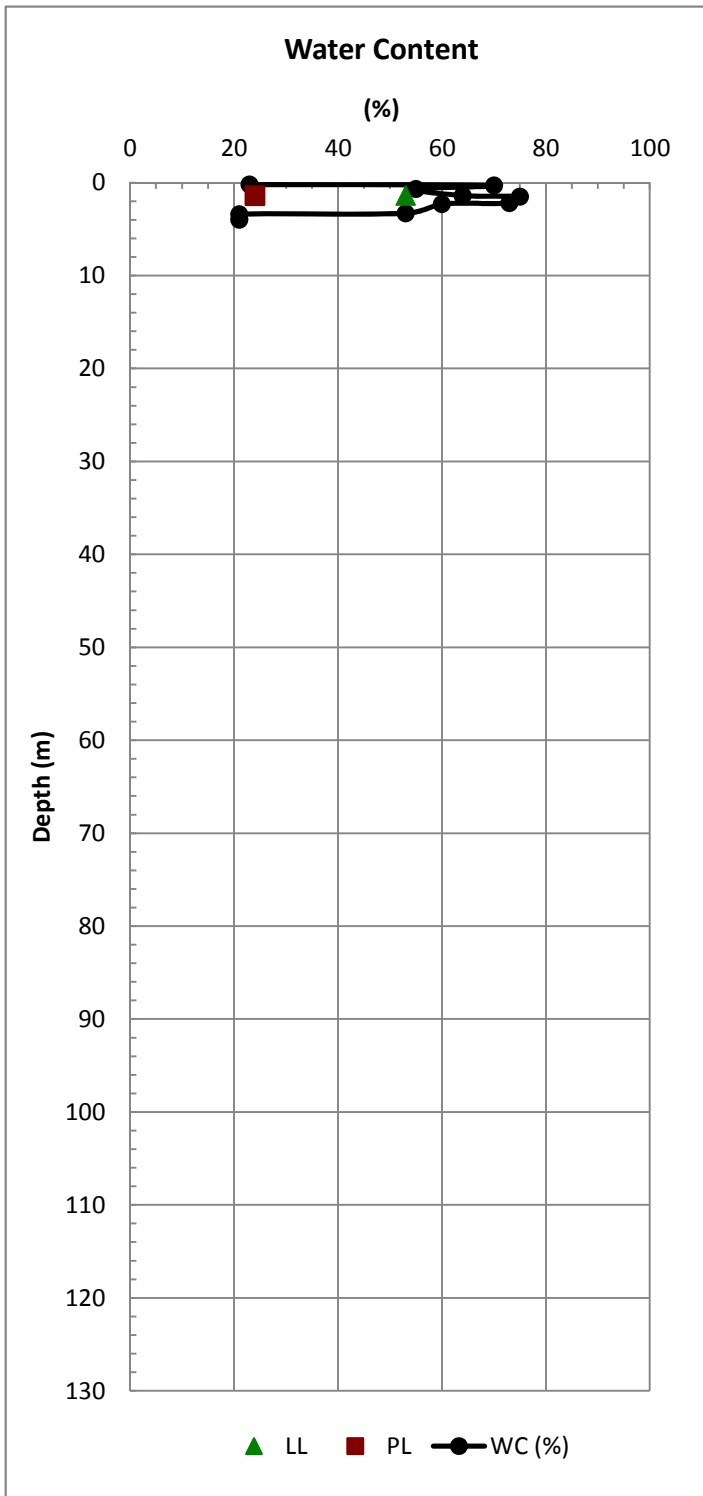
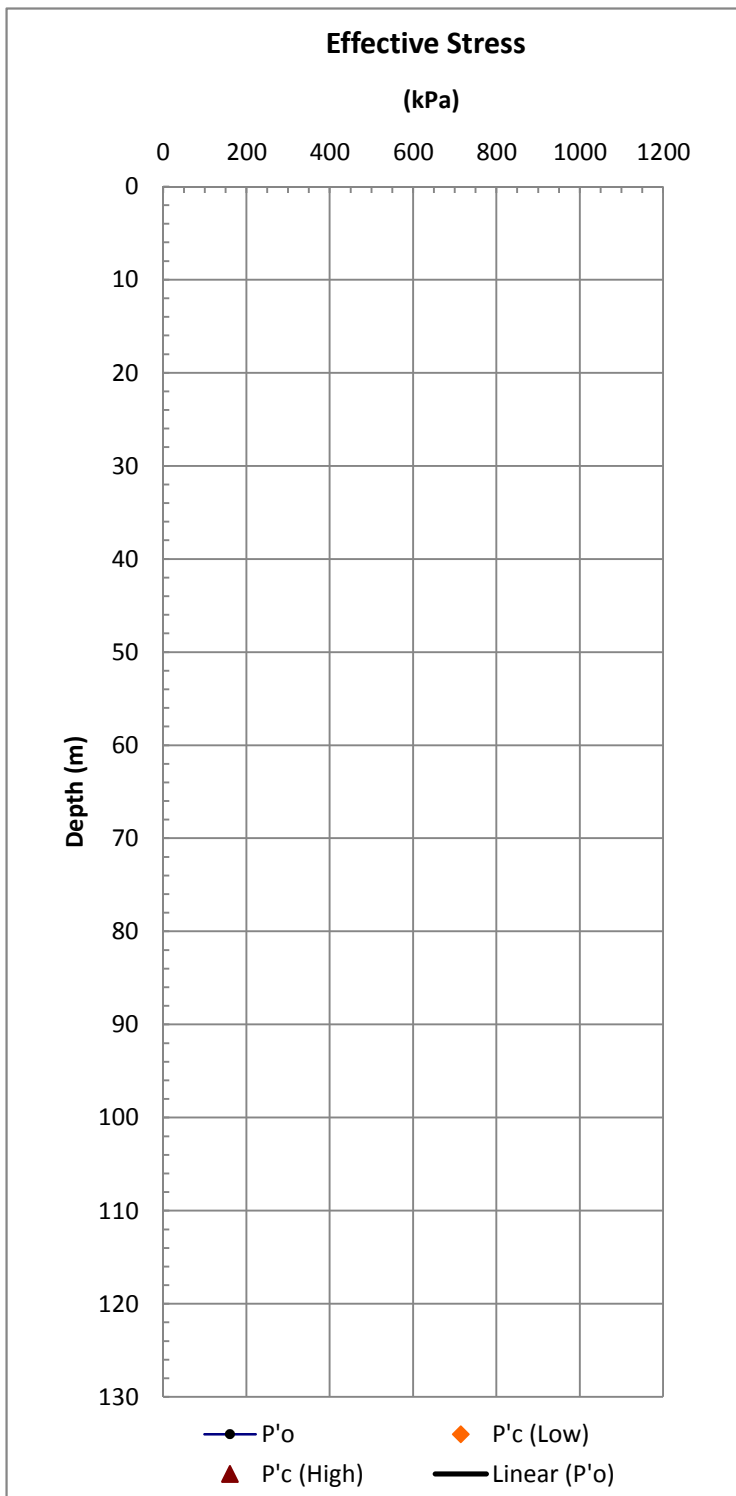
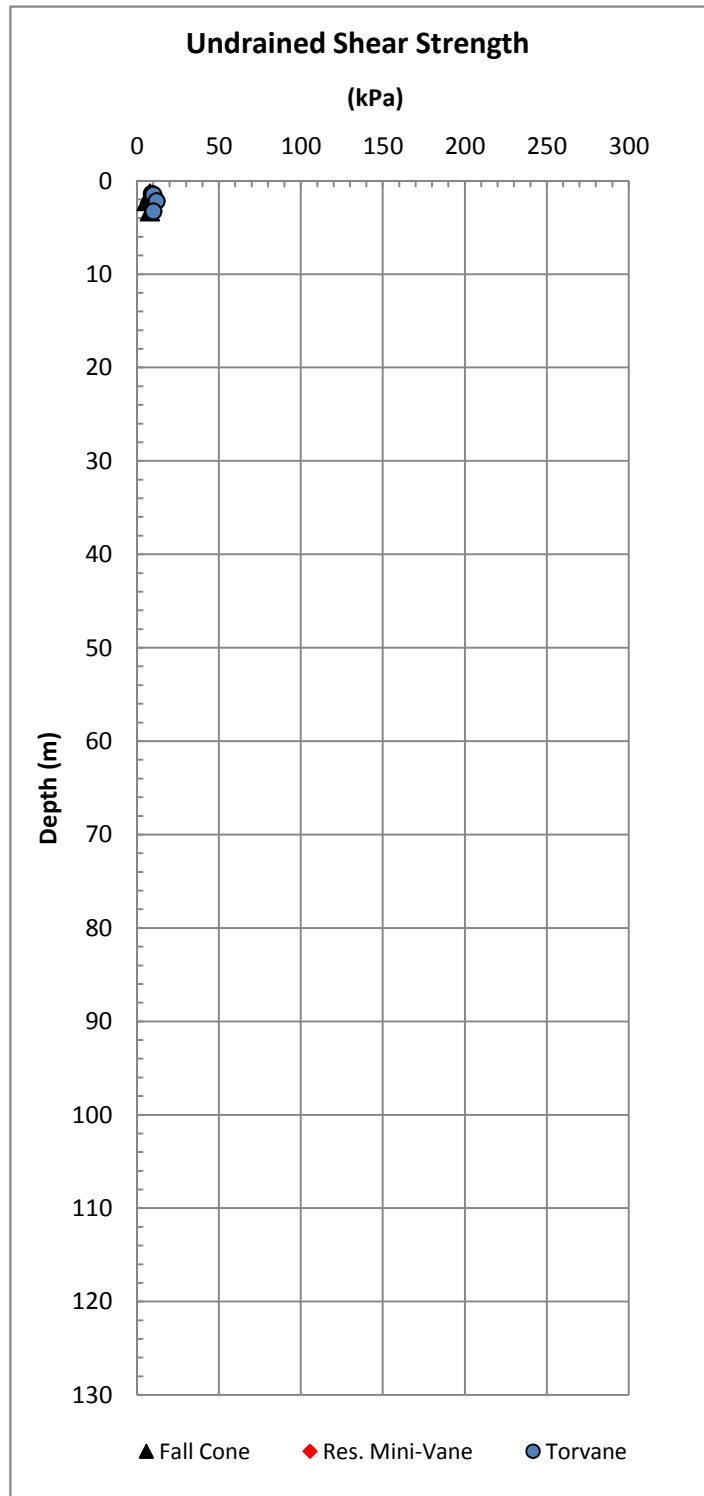
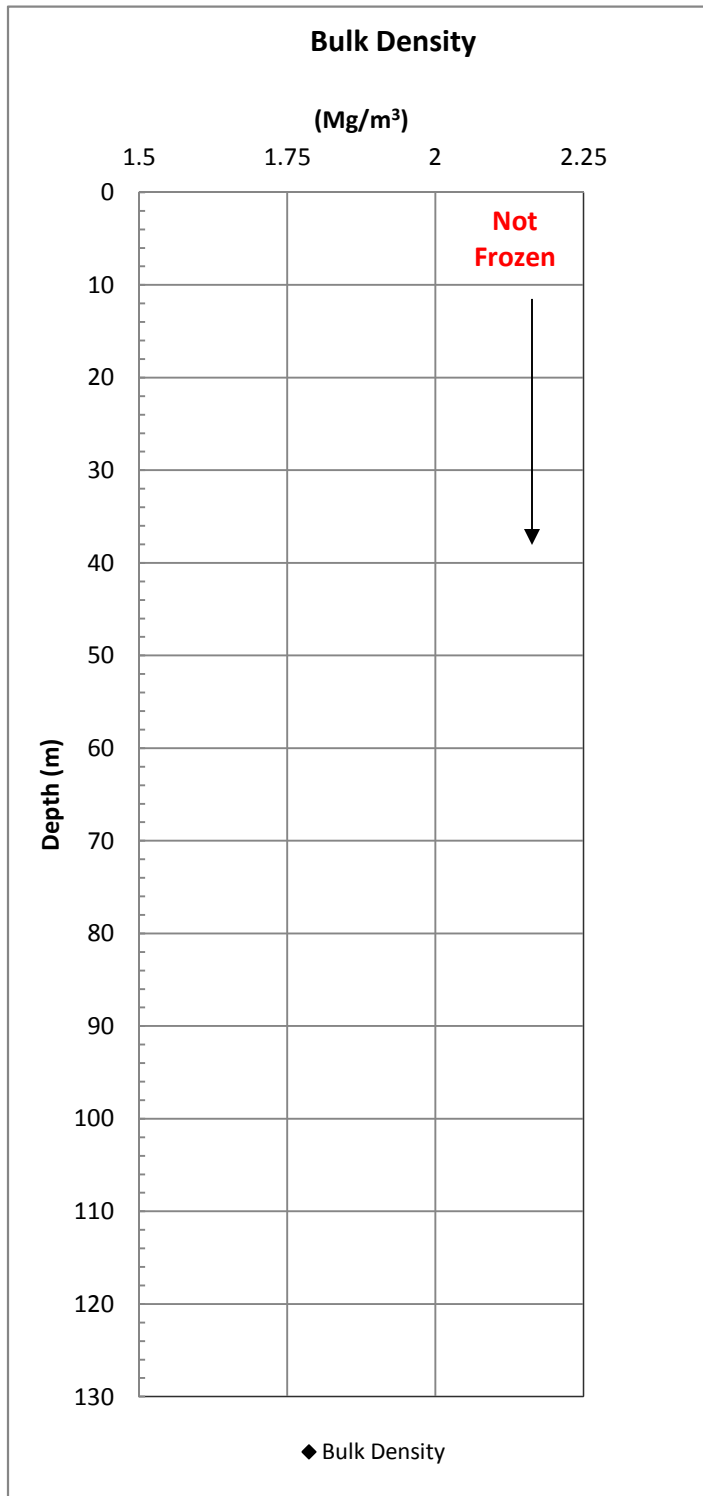


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Nerlerk V-Ner 2:4

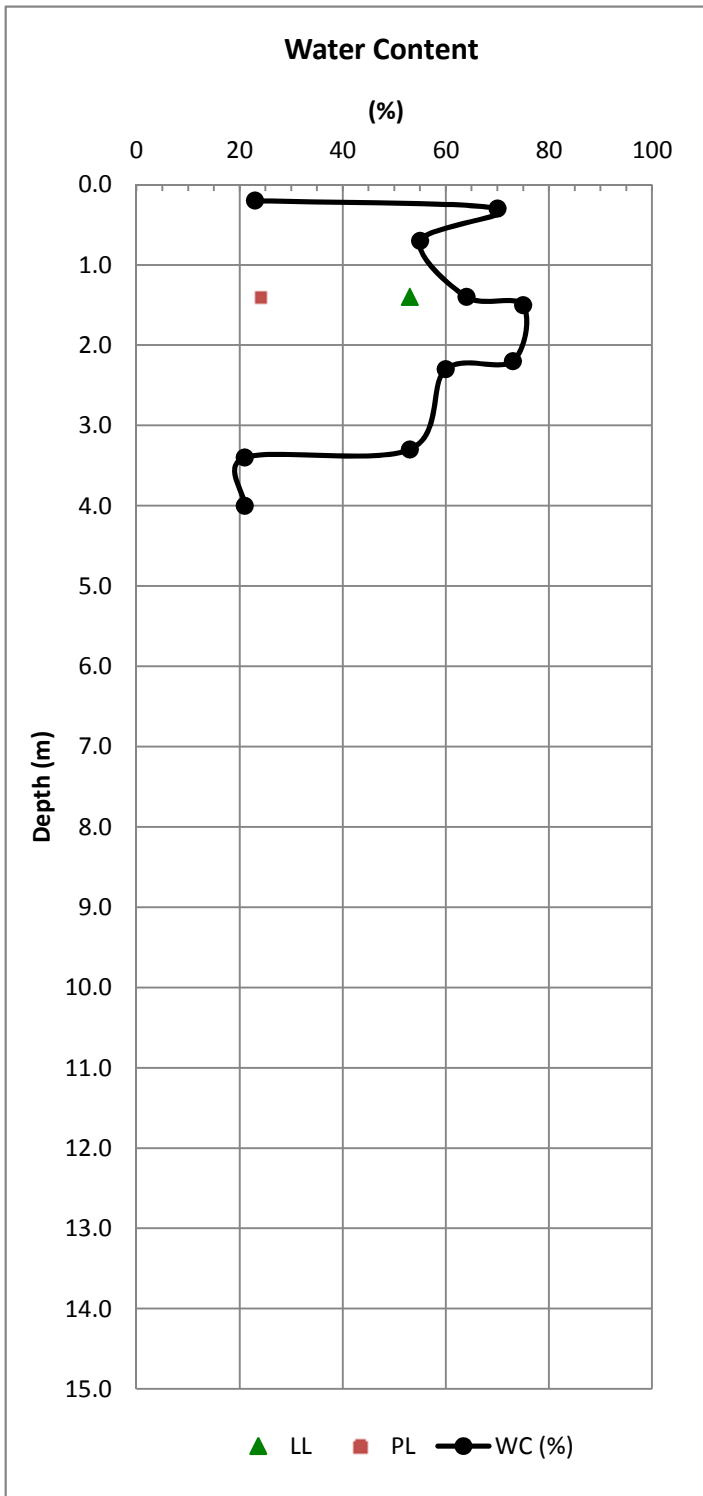
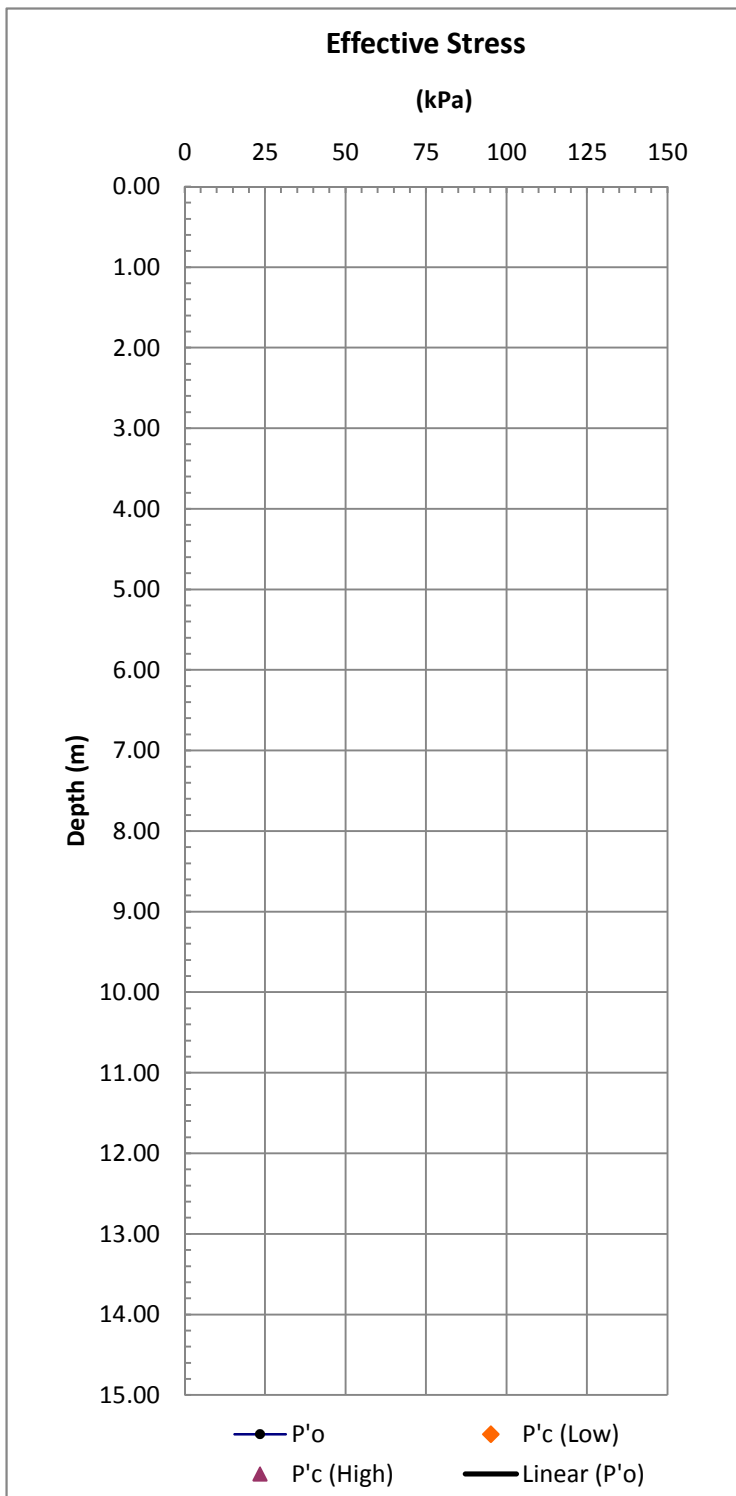
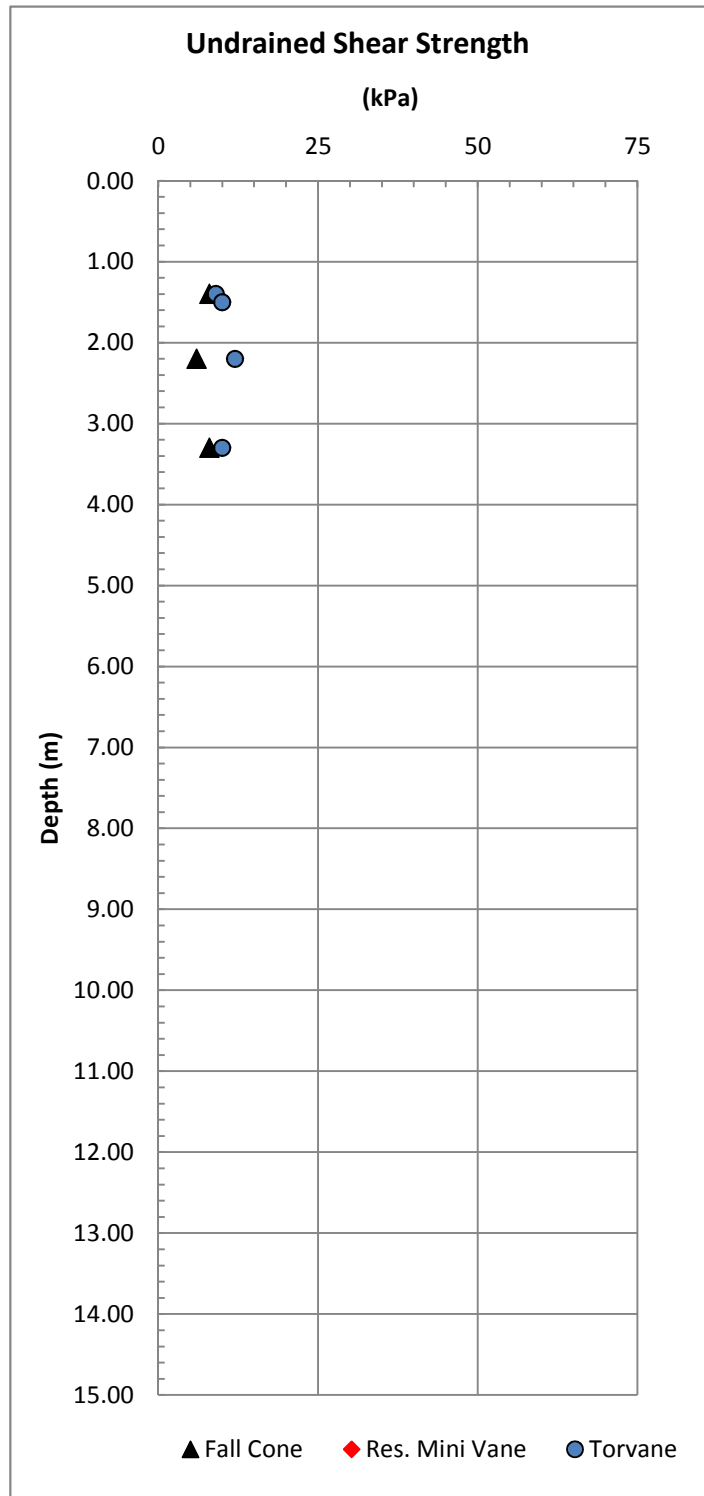
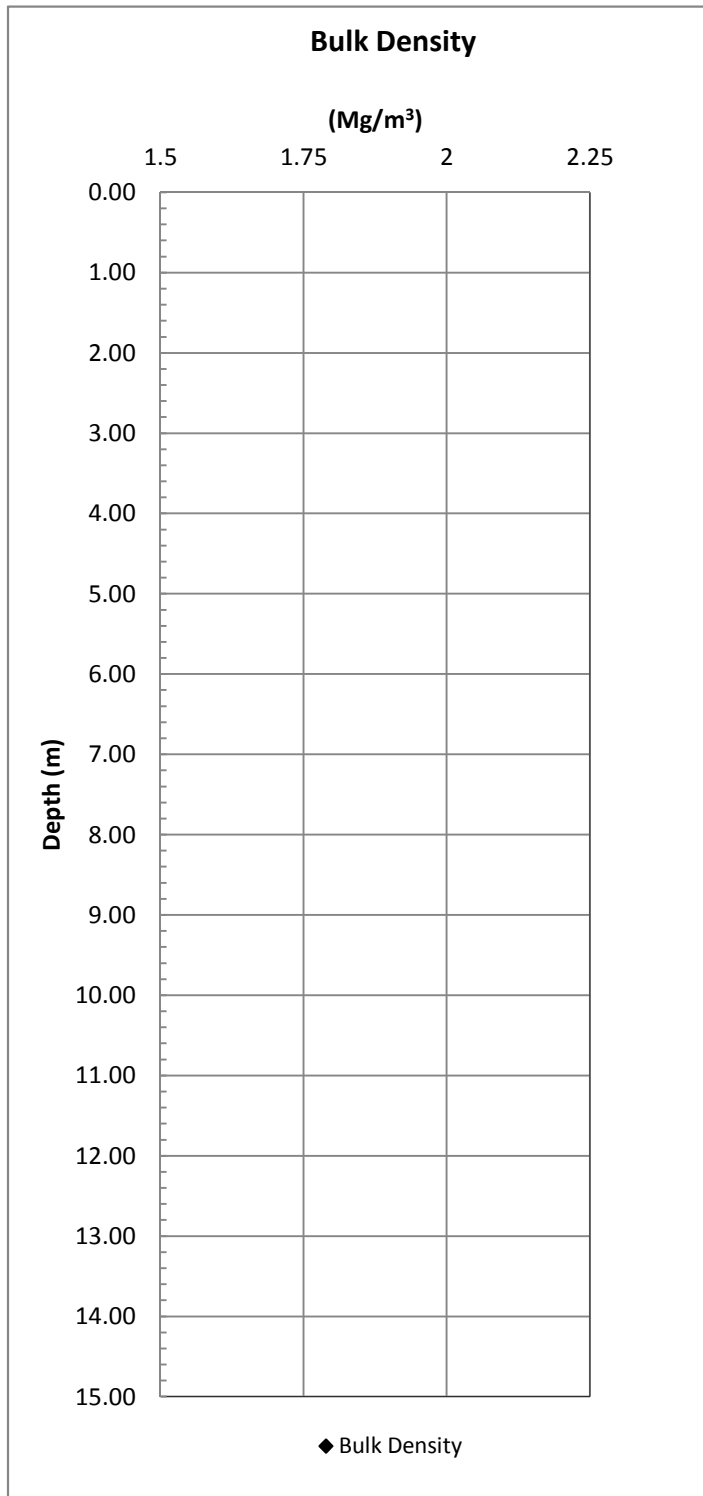
Figure C.3

10033 Beaufort Data



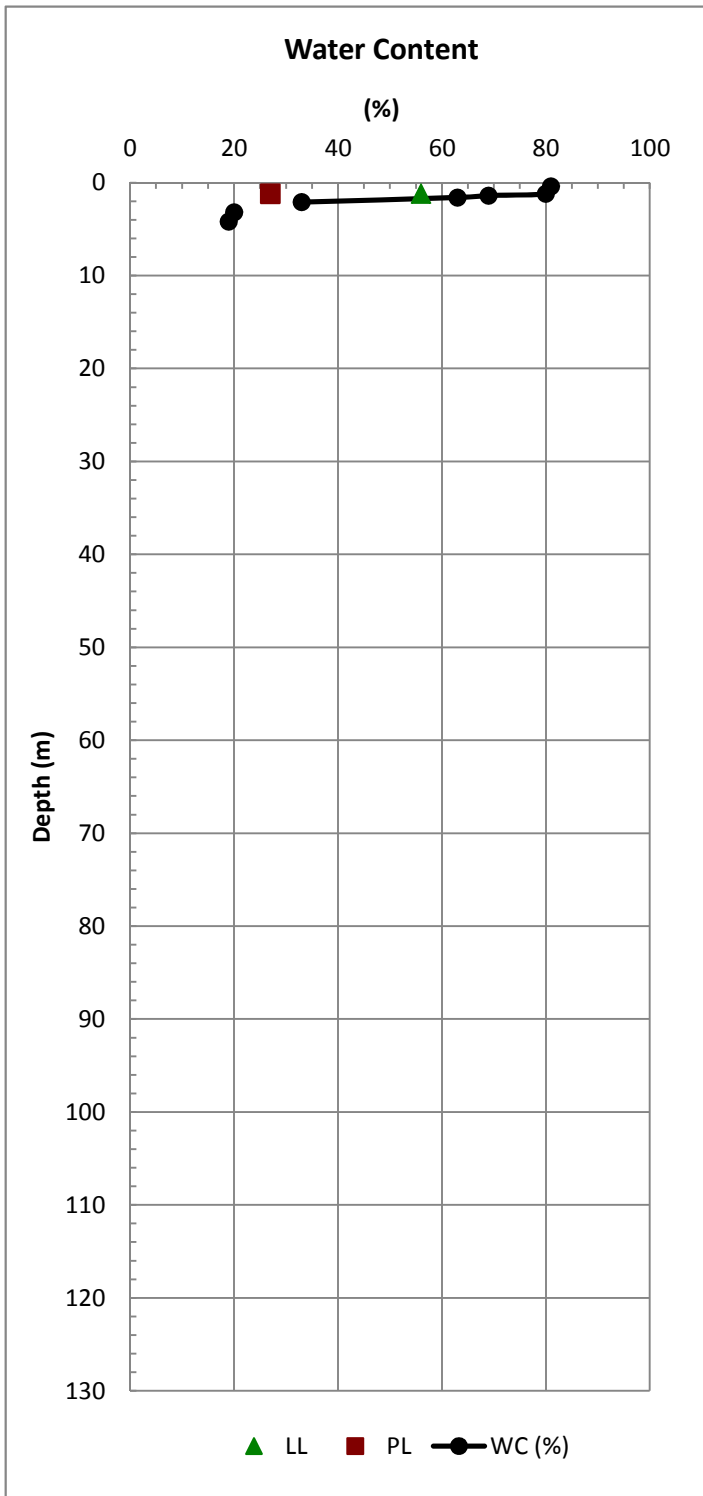
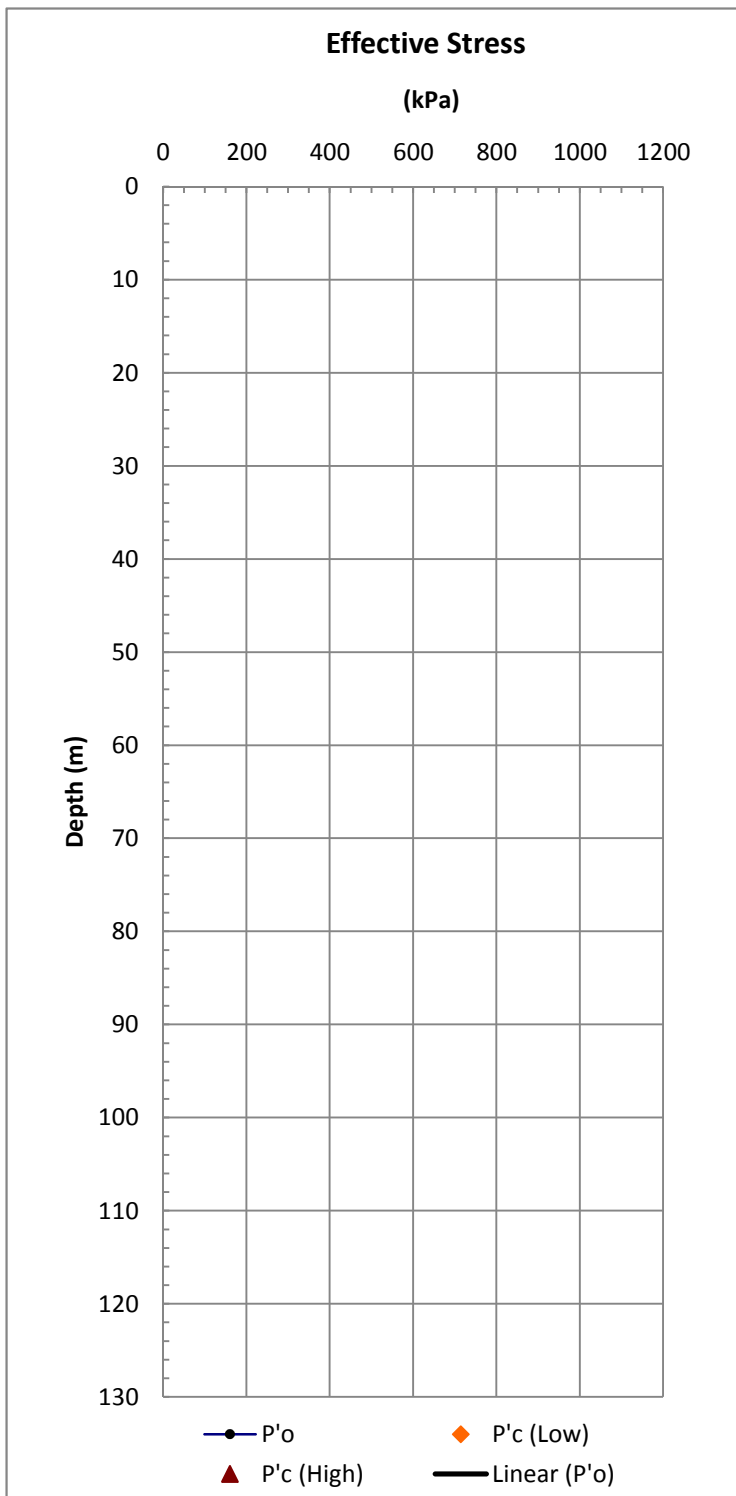
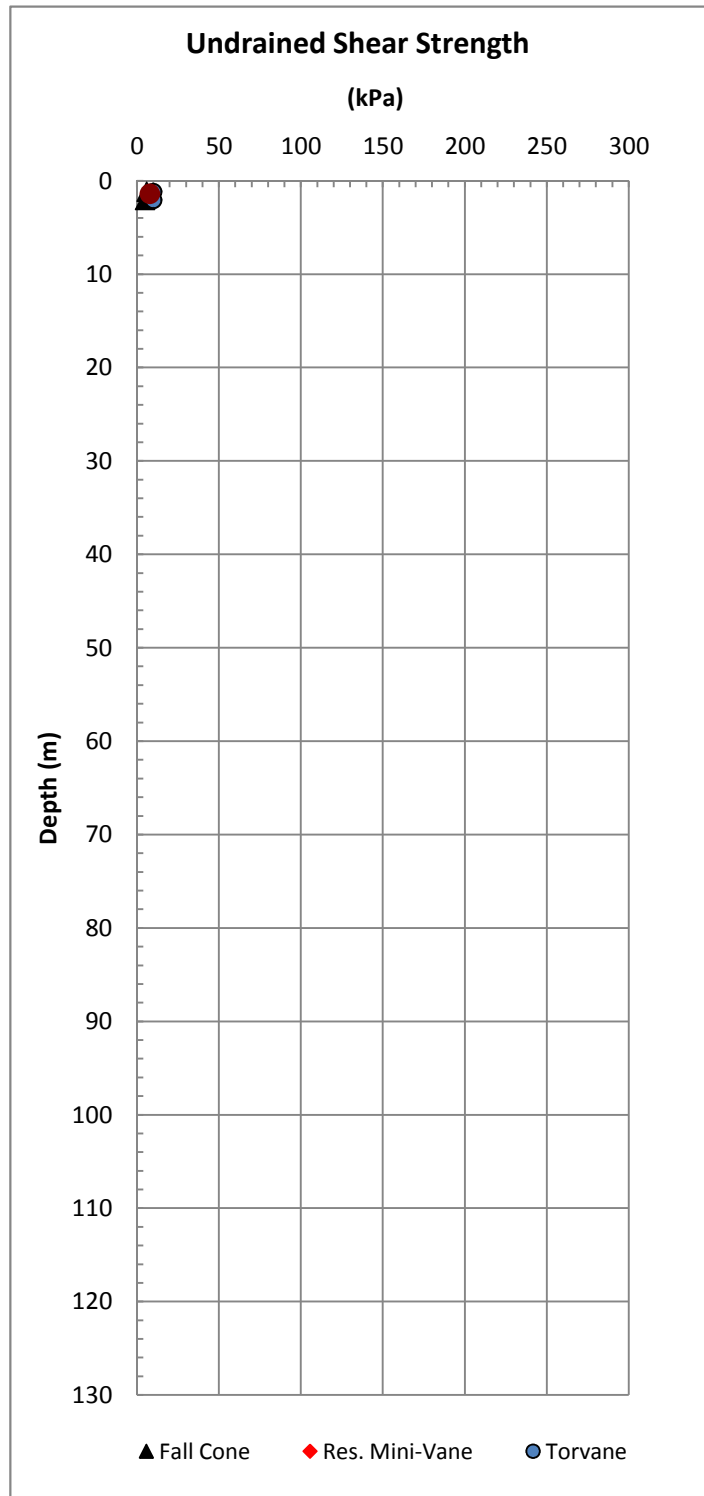
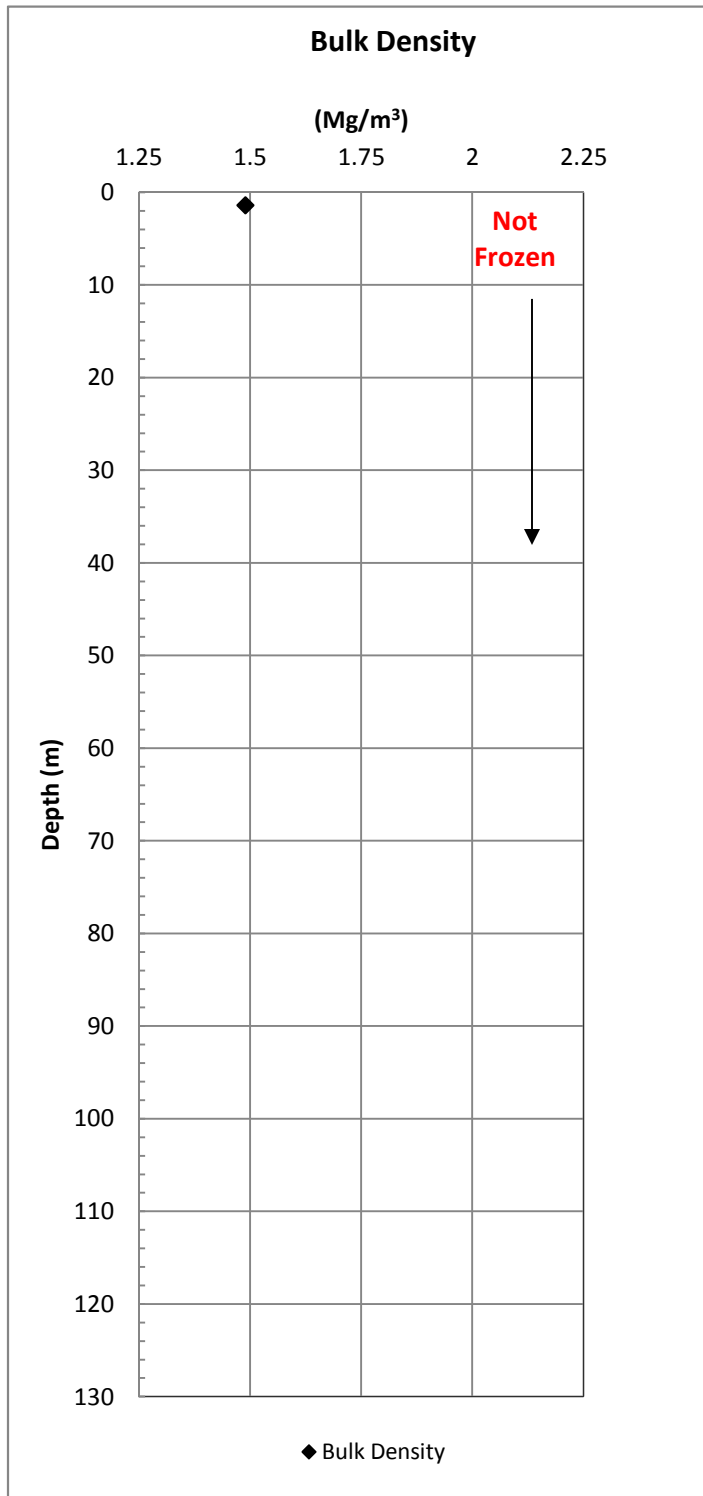
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Figure C.3
 10033 Beaufort Data



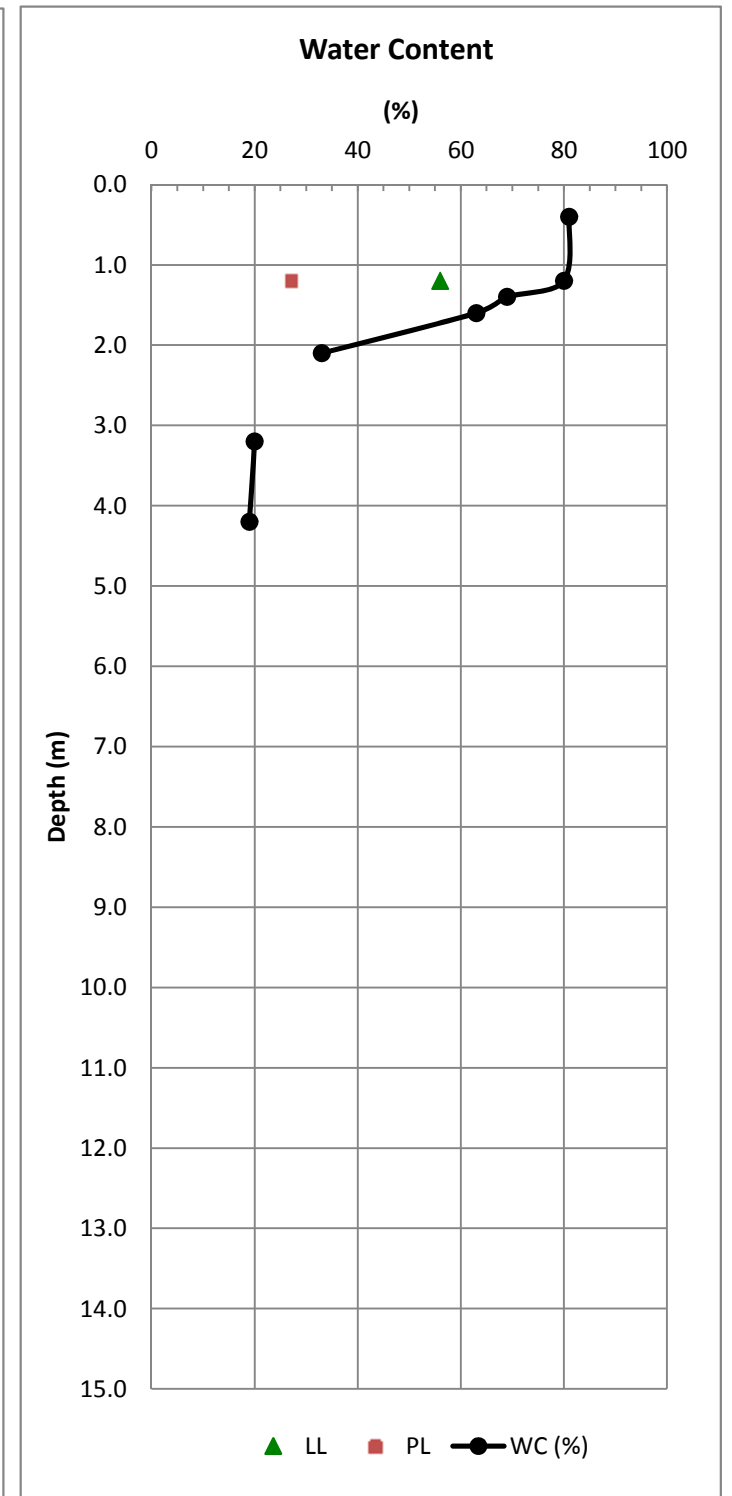
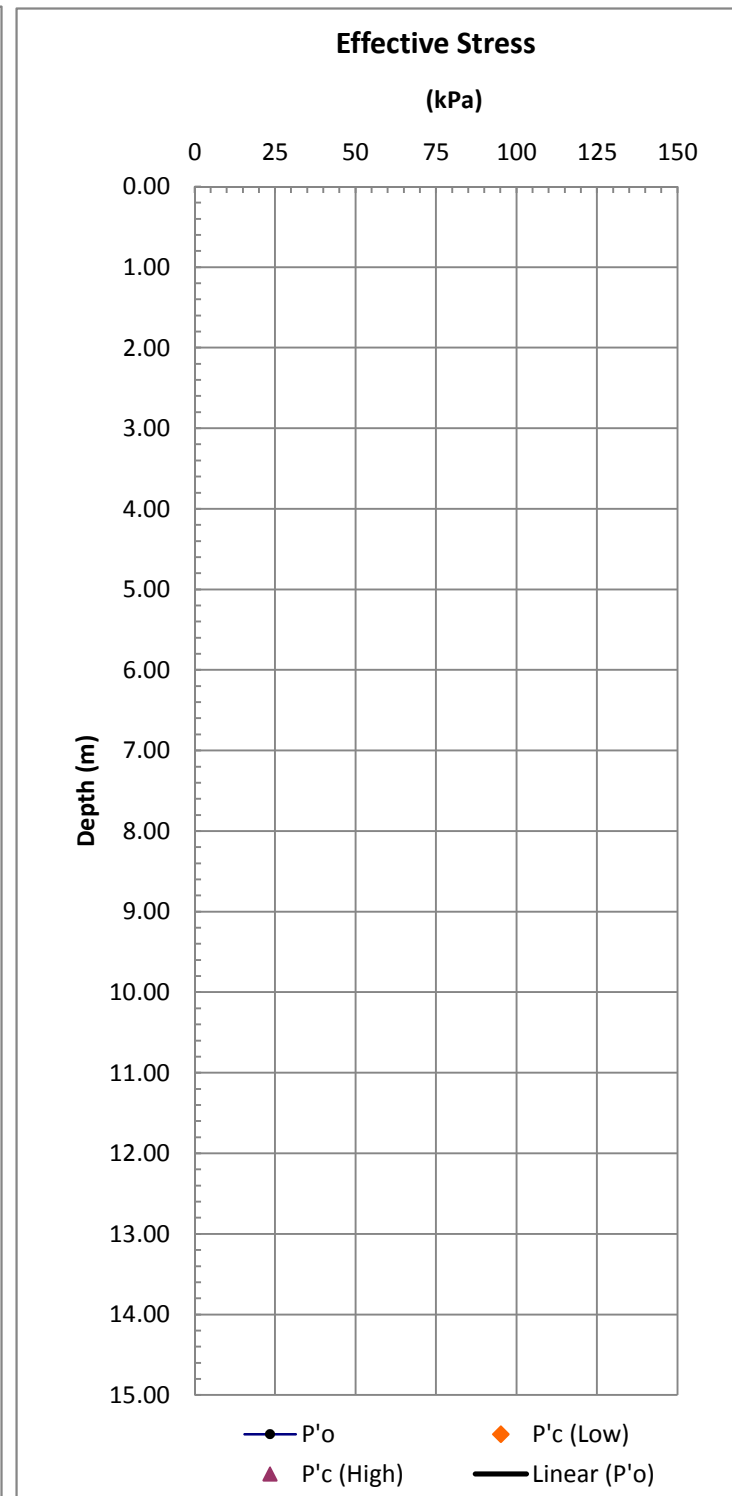
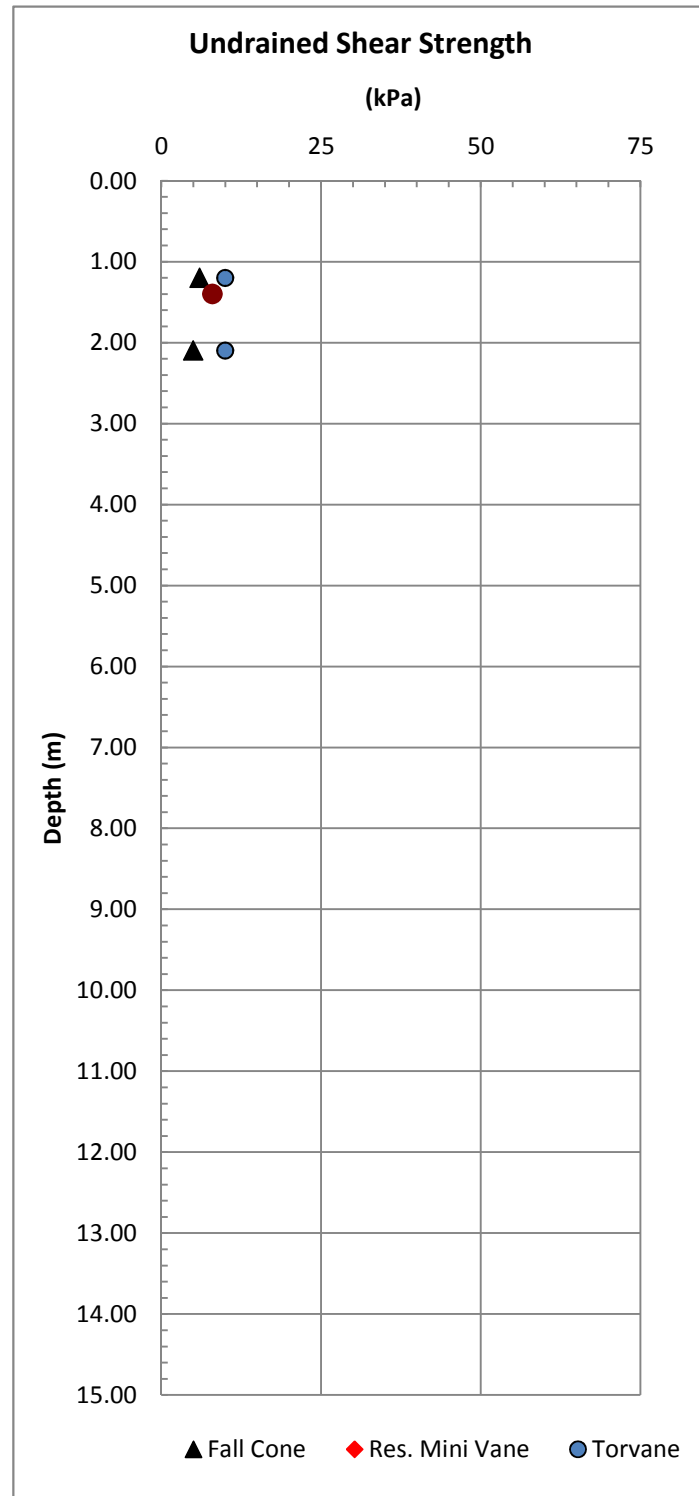
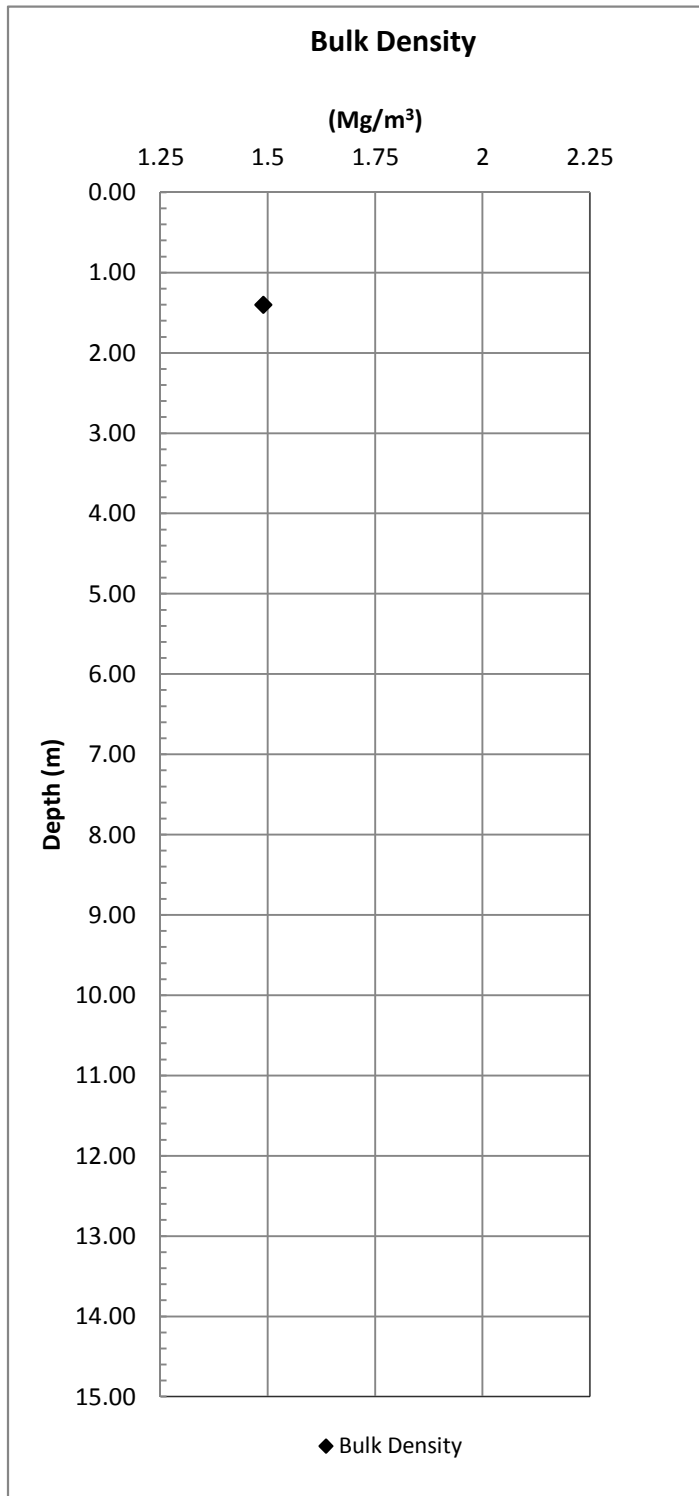
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Nerlerk V-Ner 2:5
Figure C.3
 10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

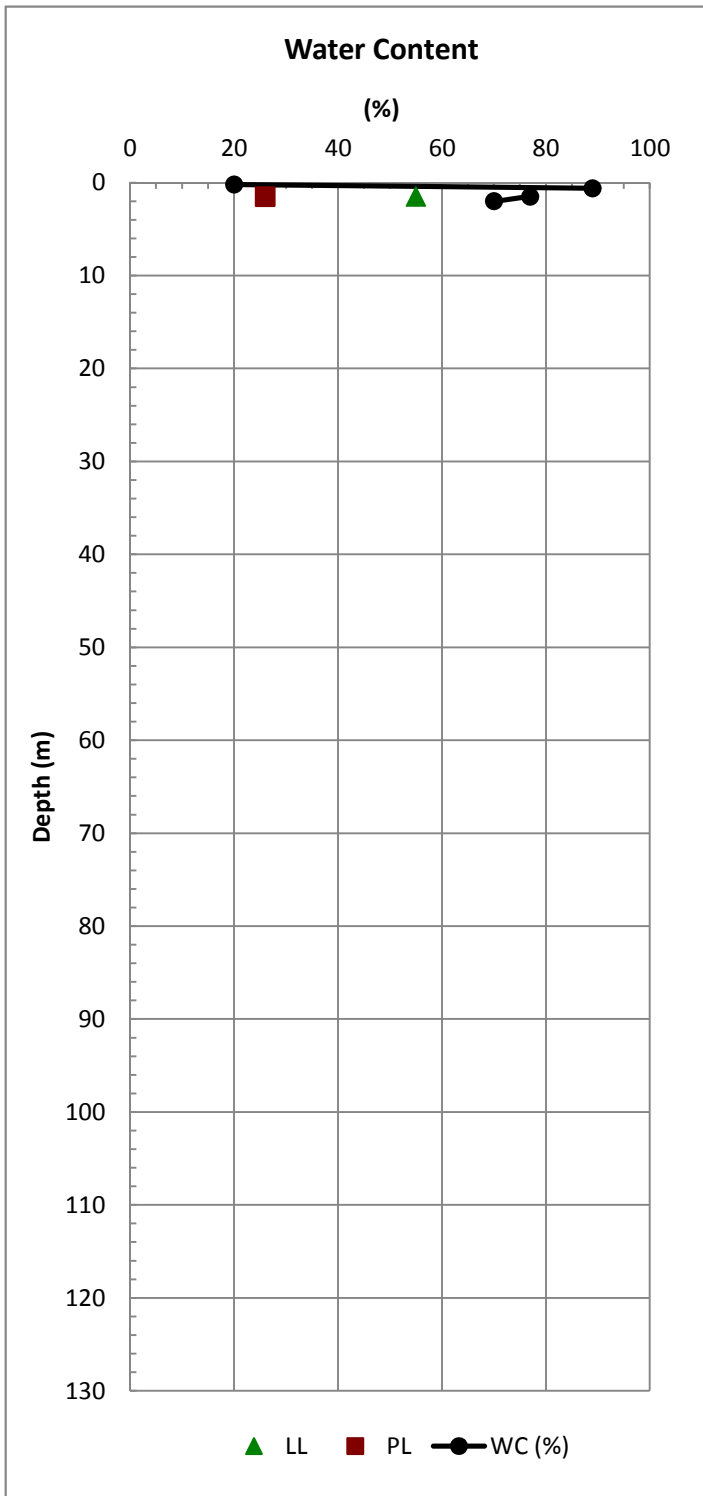
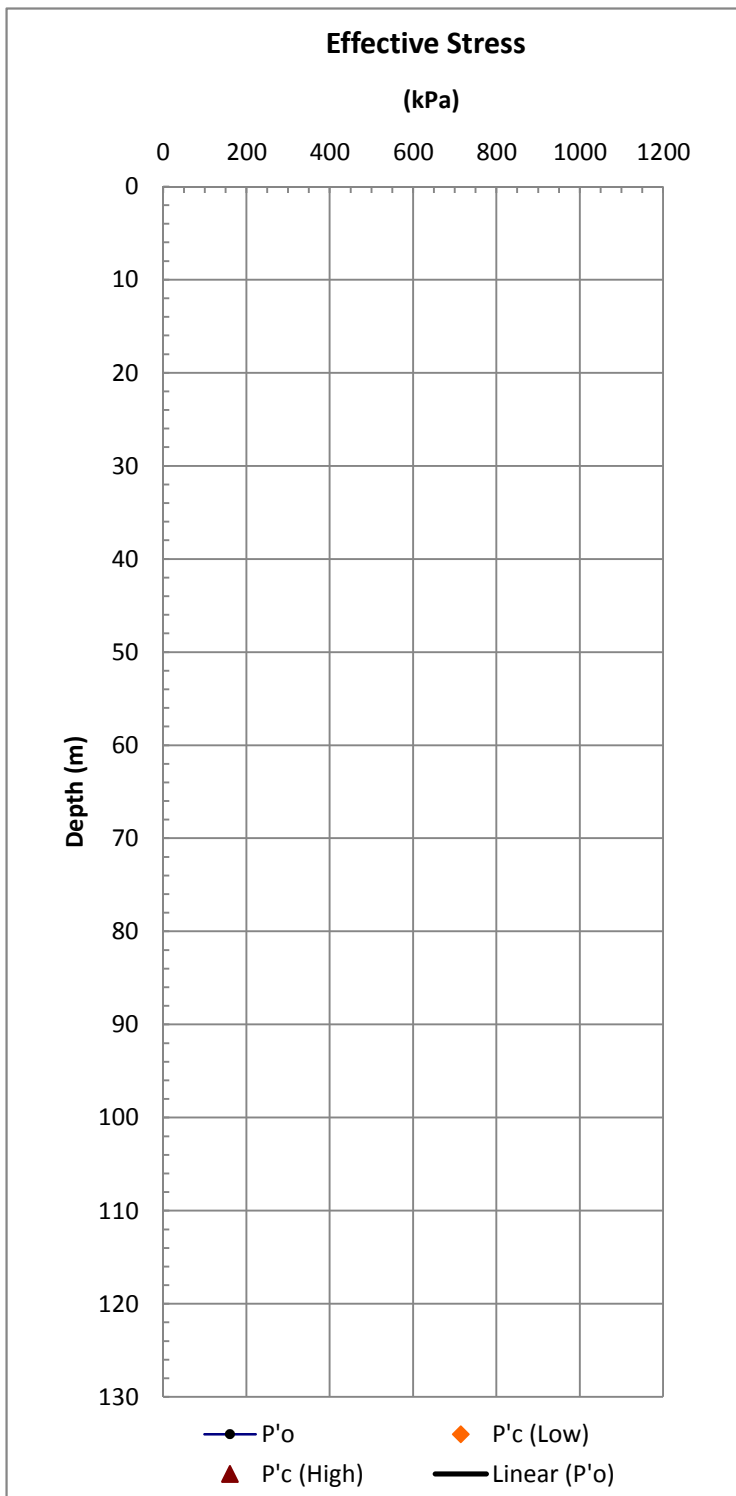
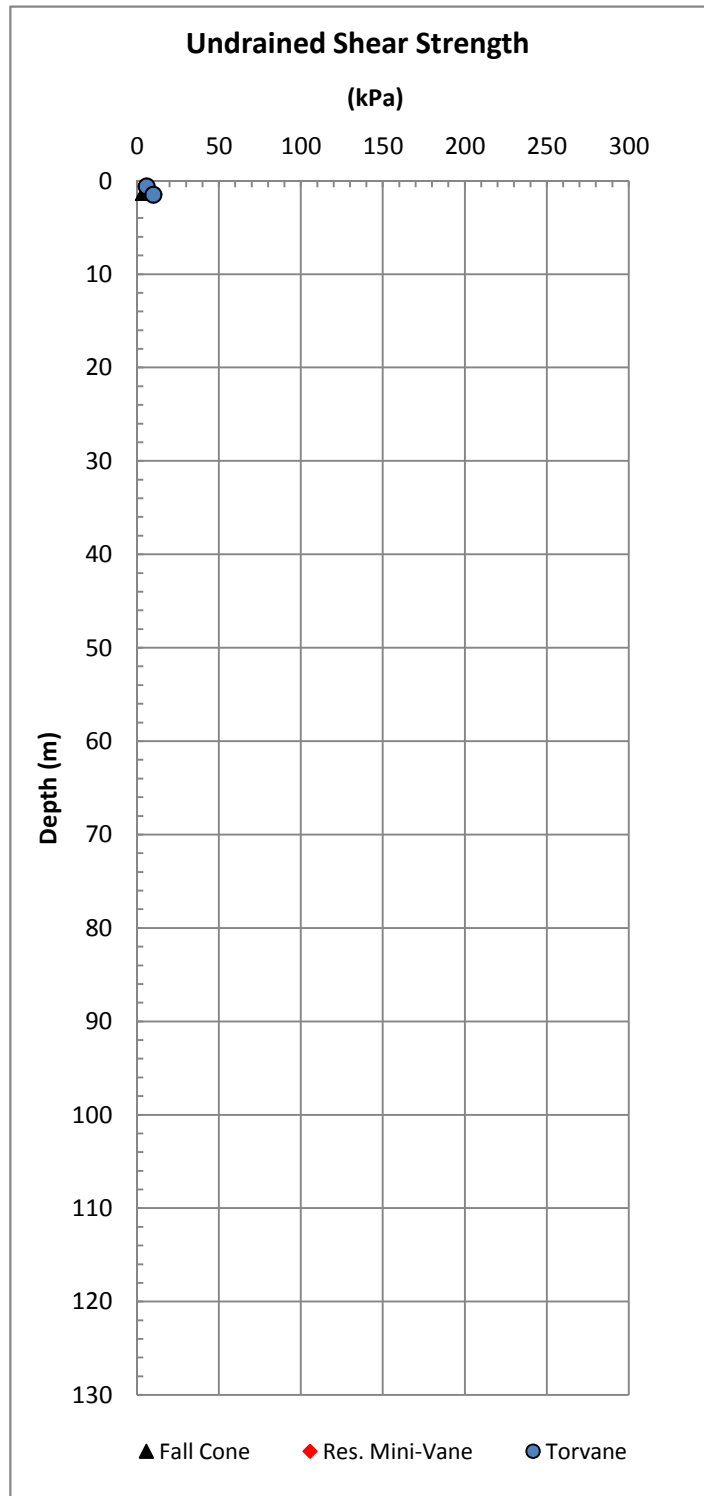
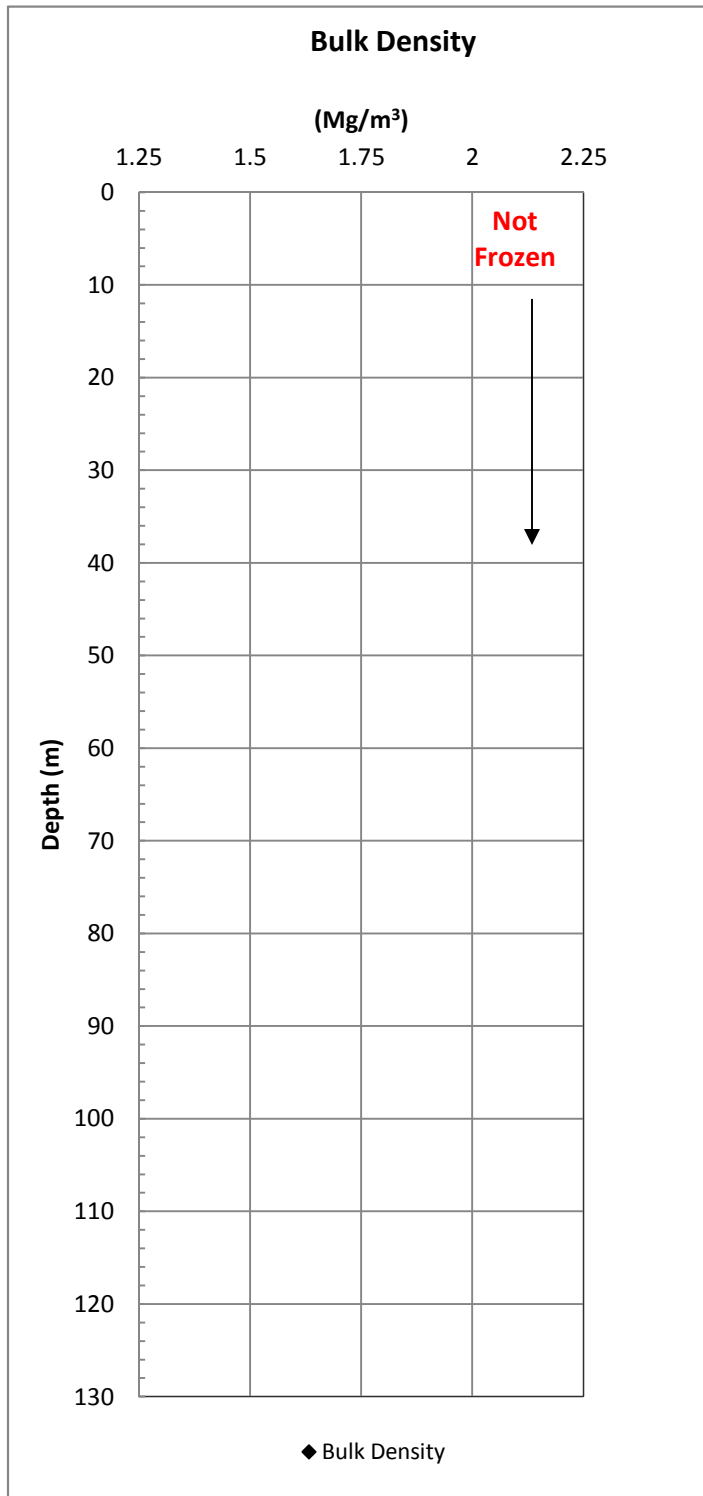


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Nerlerk V-Ner 2:6

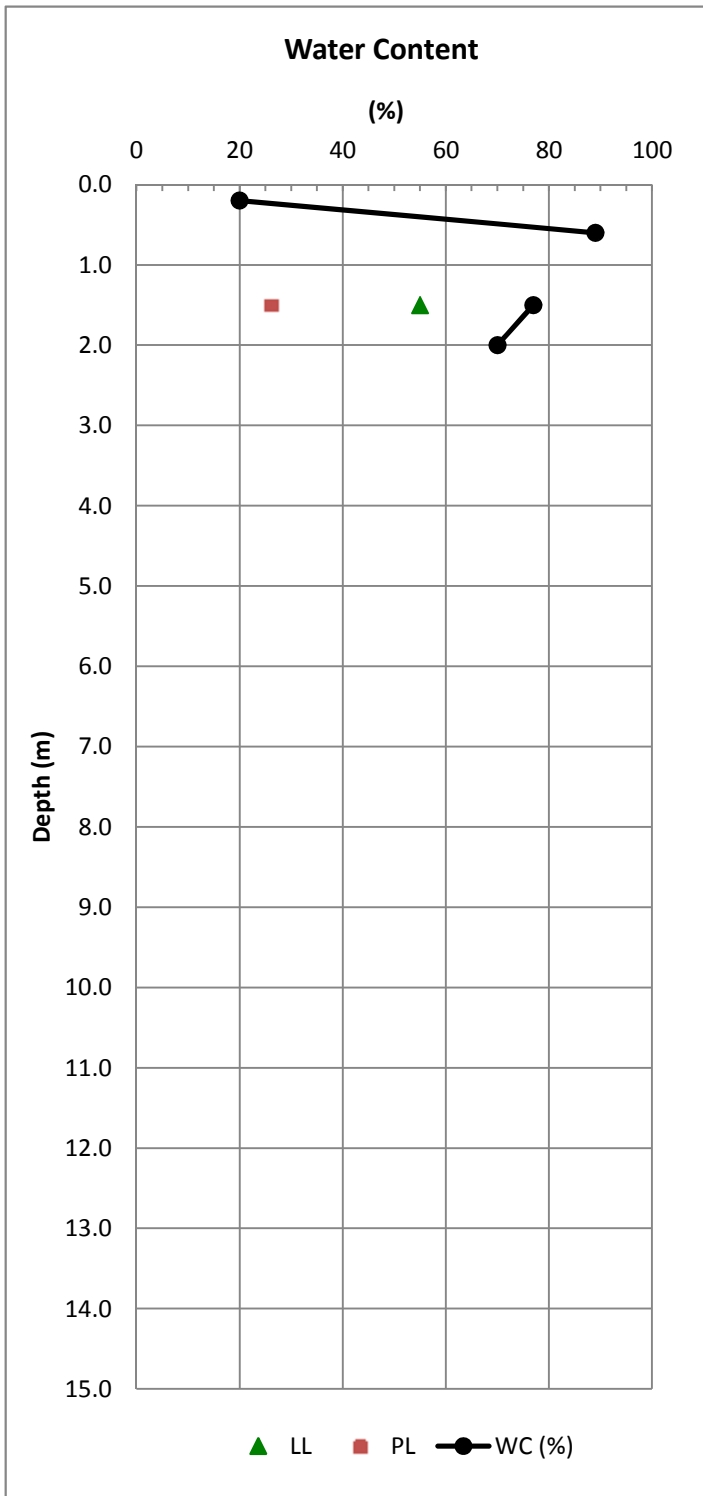
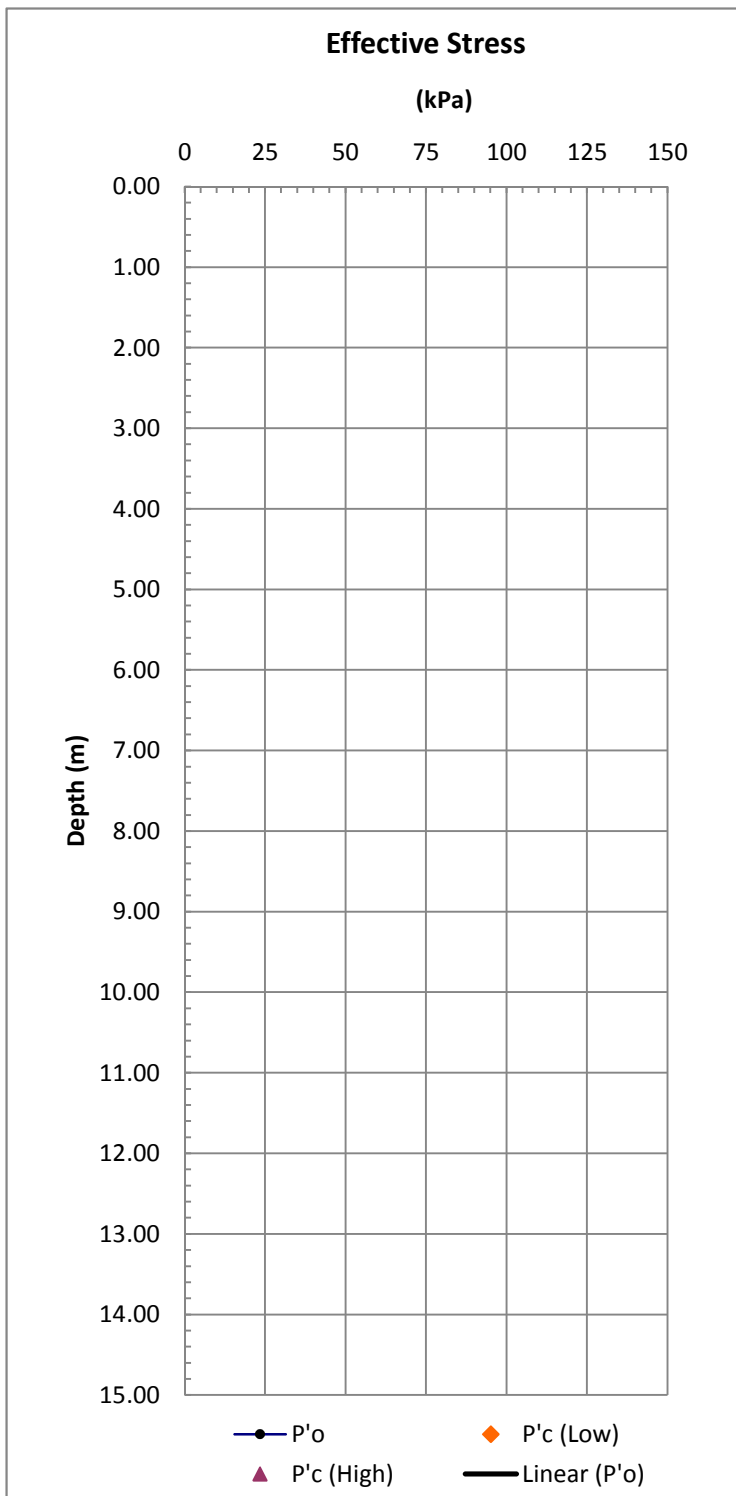
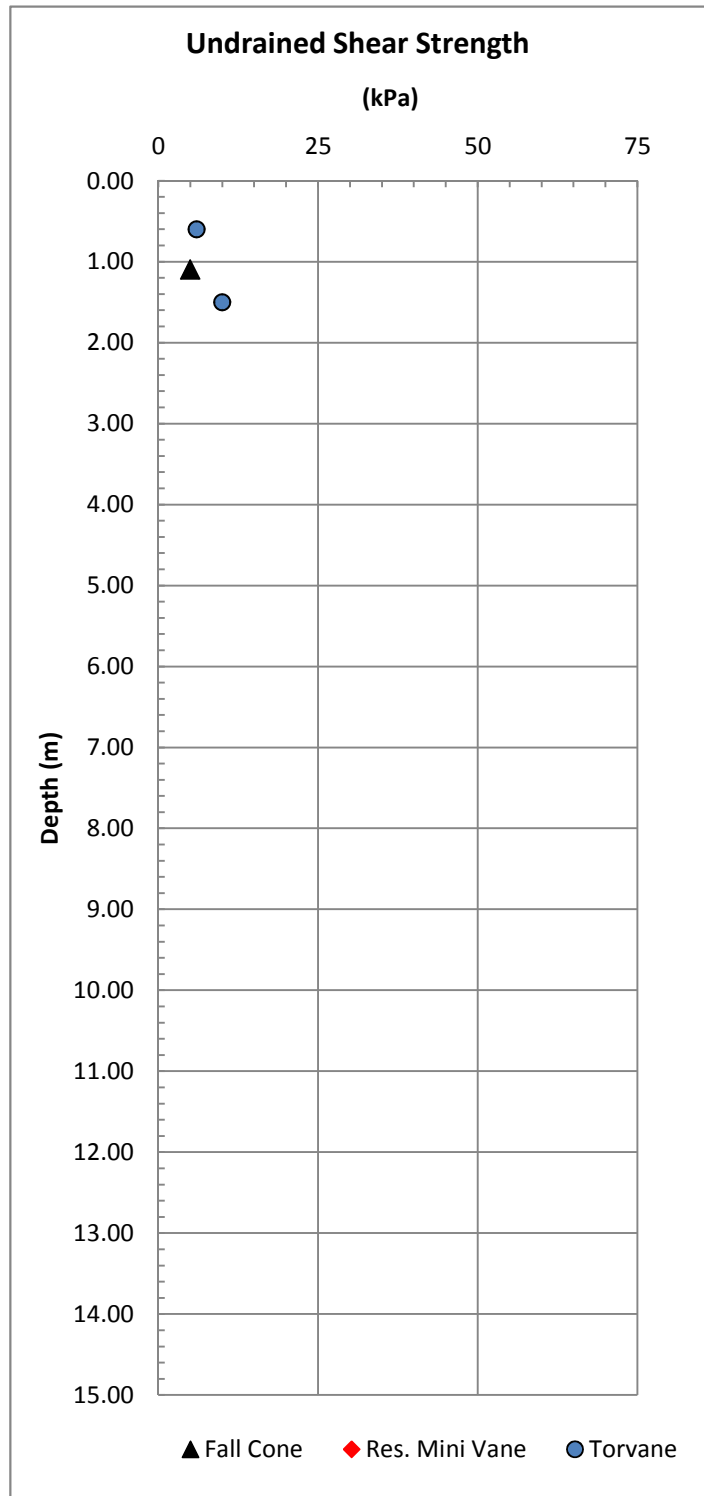
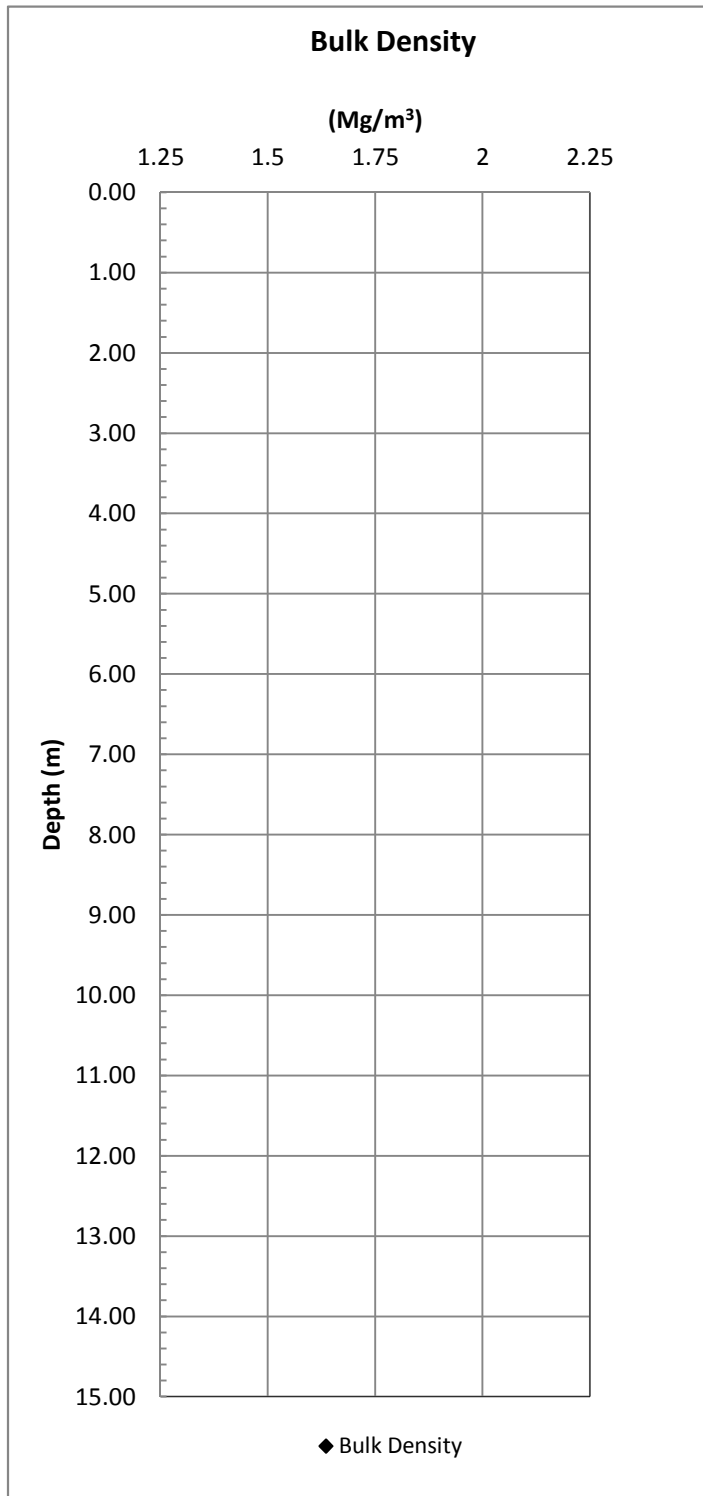
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10033 Beaufort Data



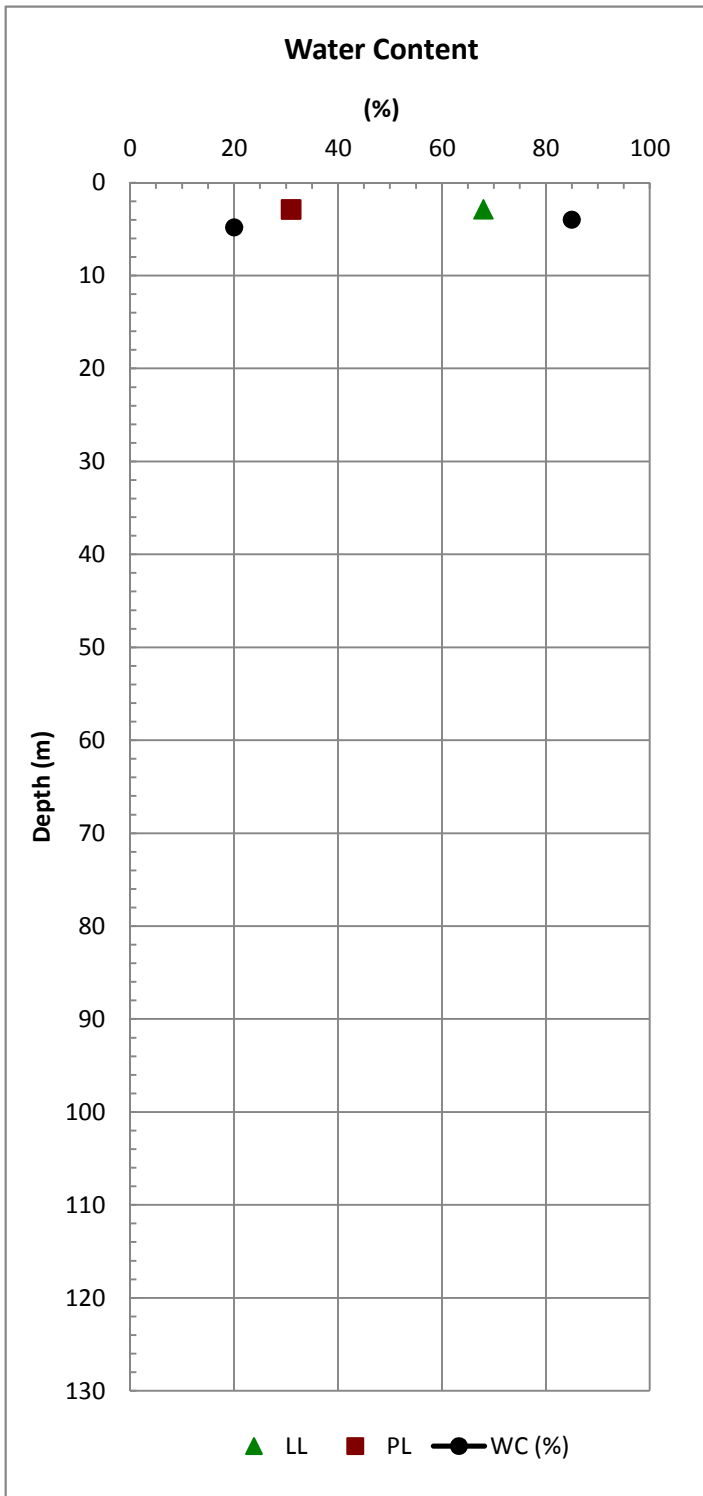
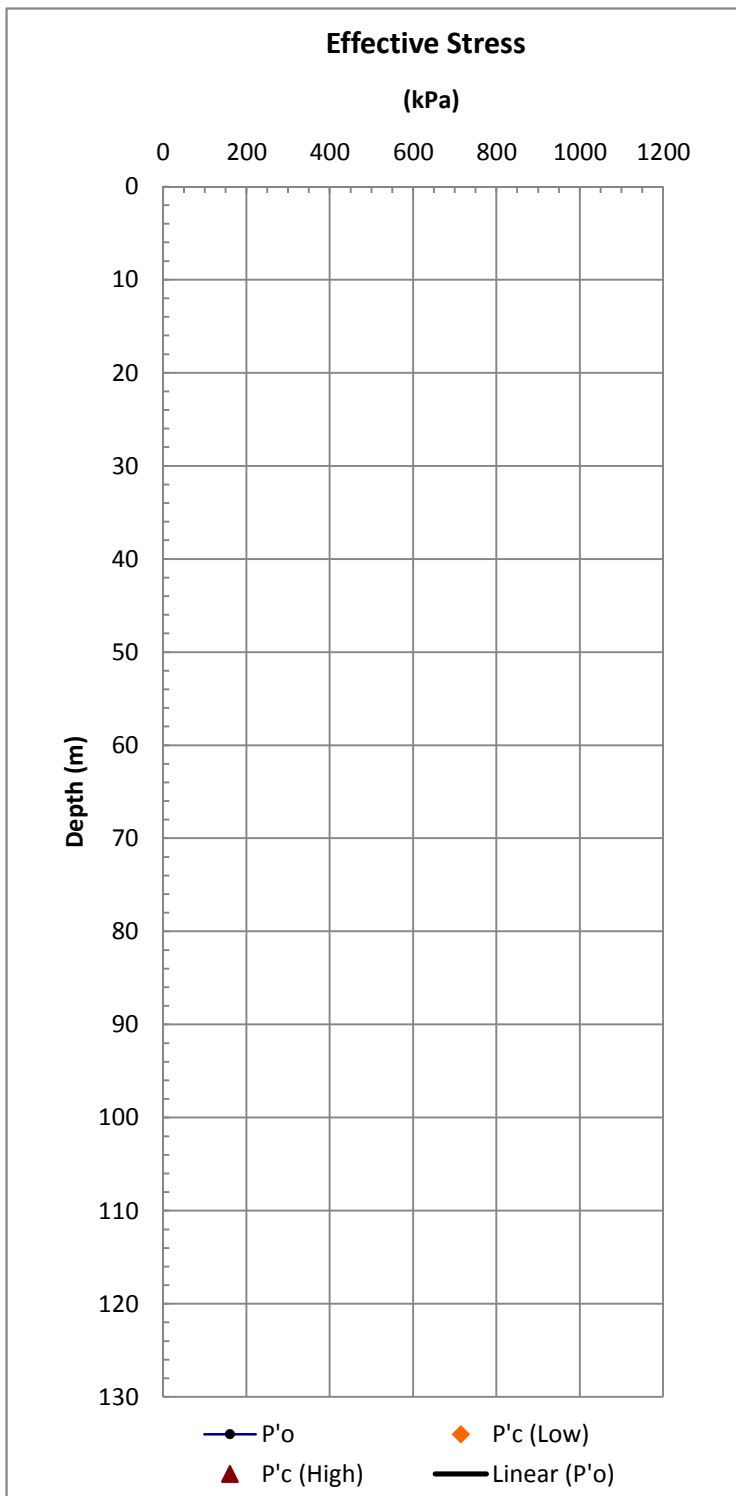
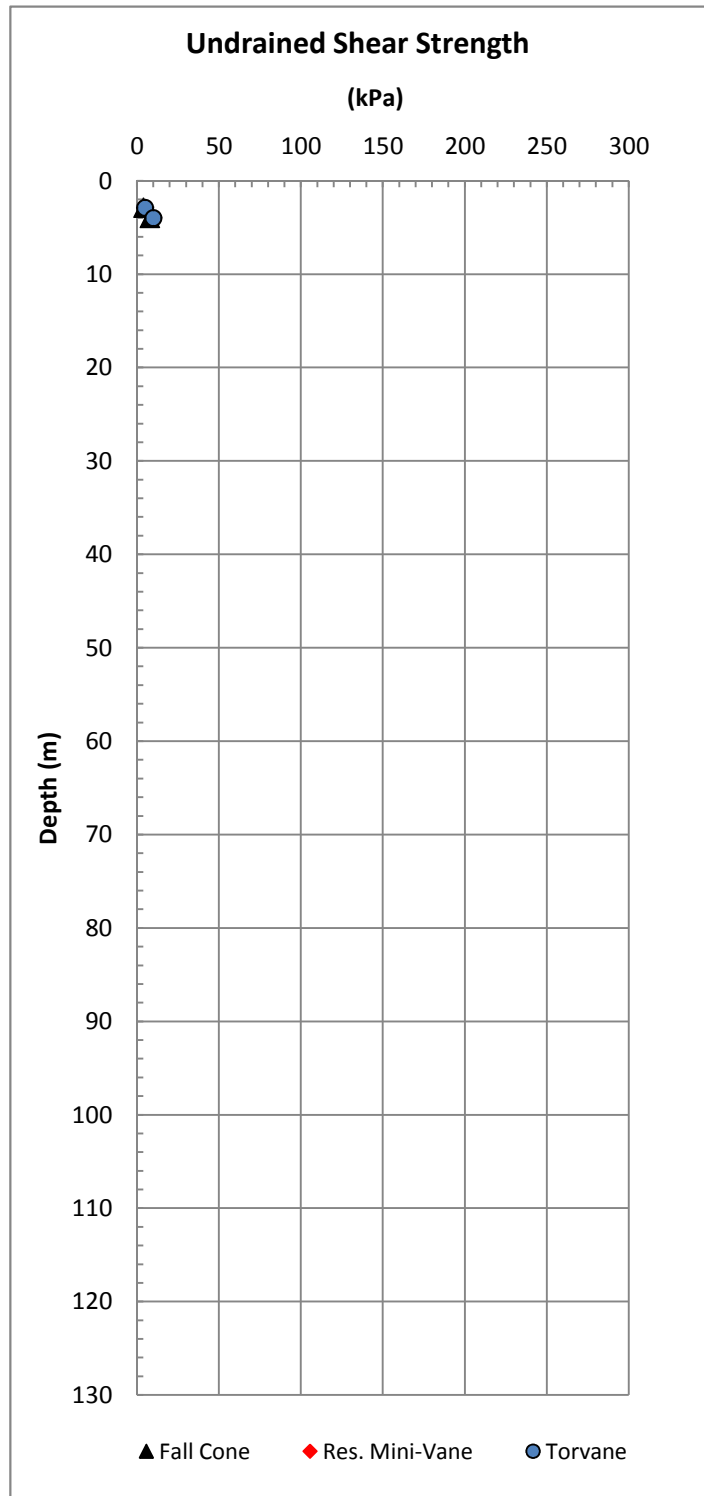
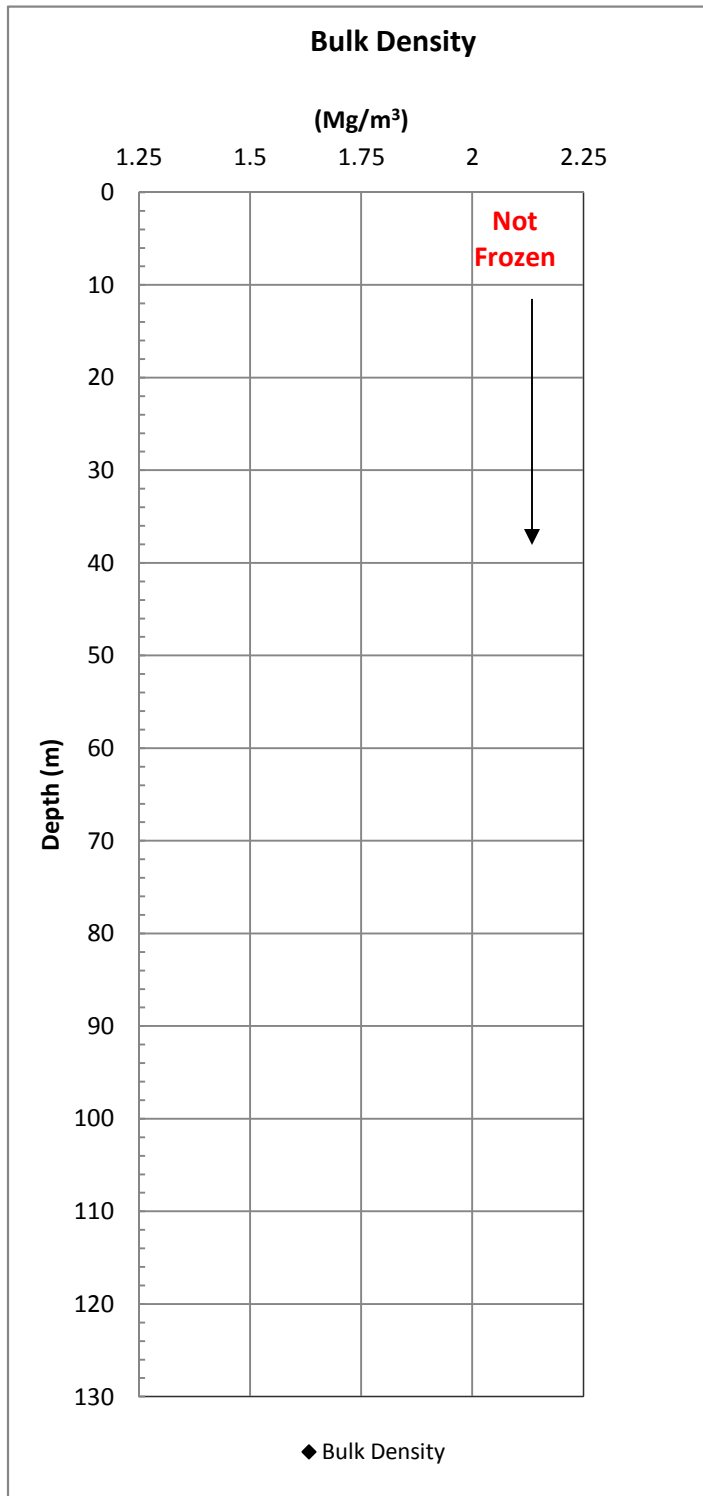
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Figure C.3
 10033 Beaufort Data



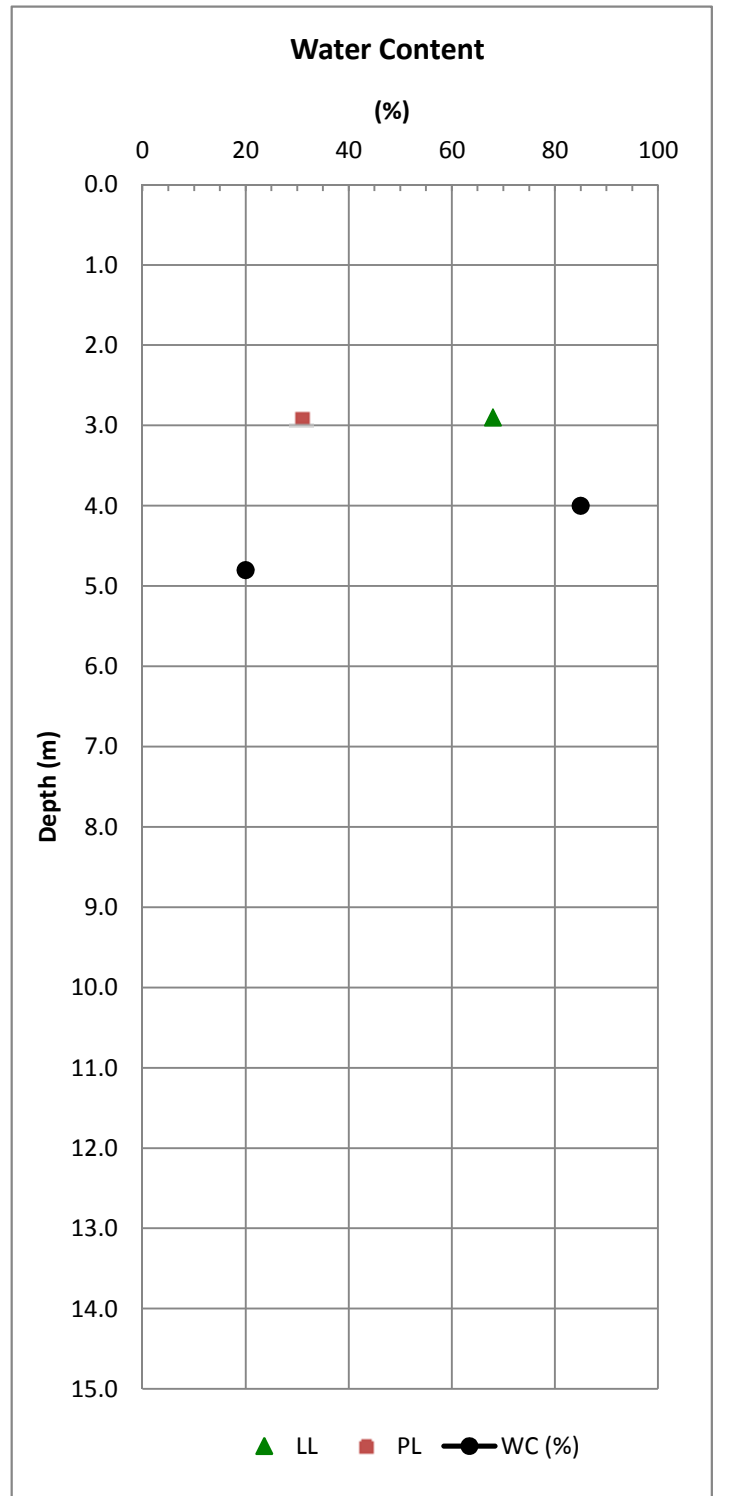
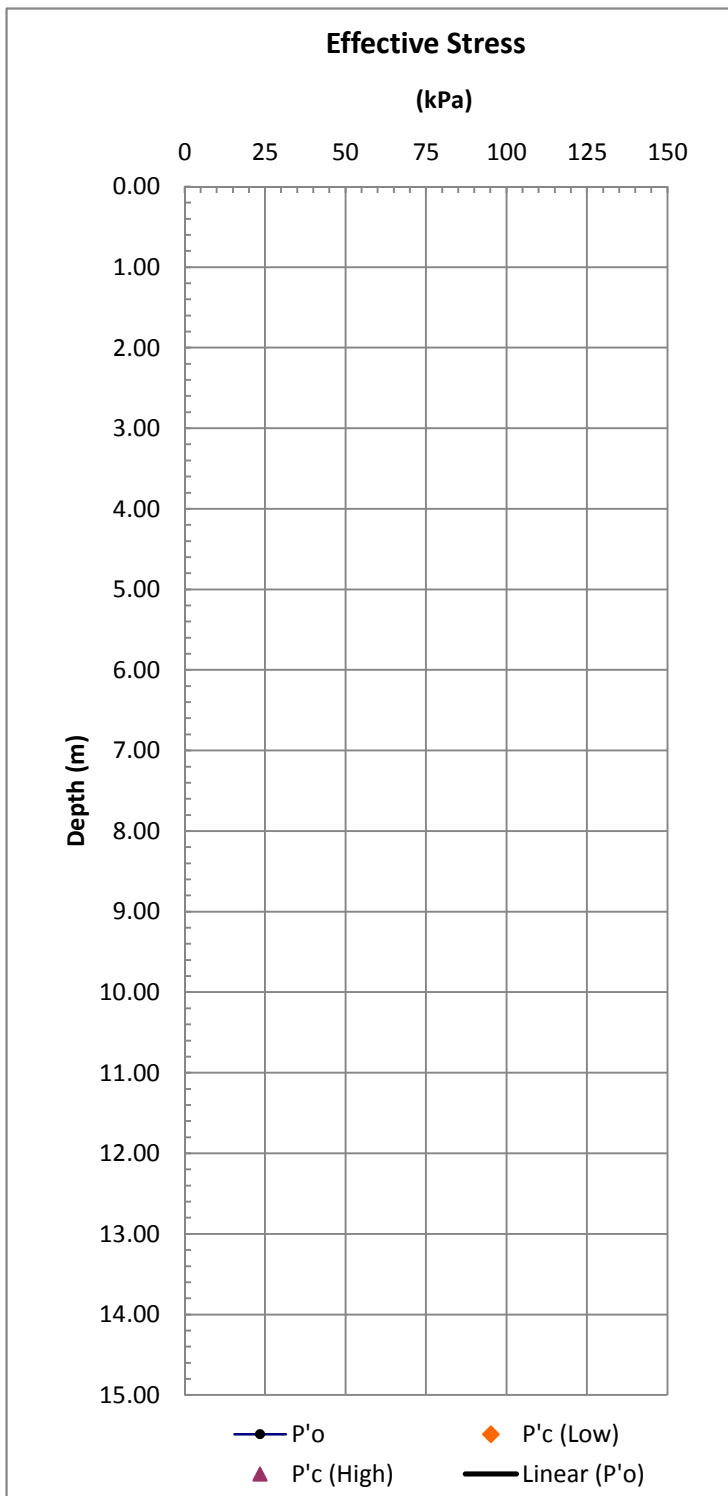
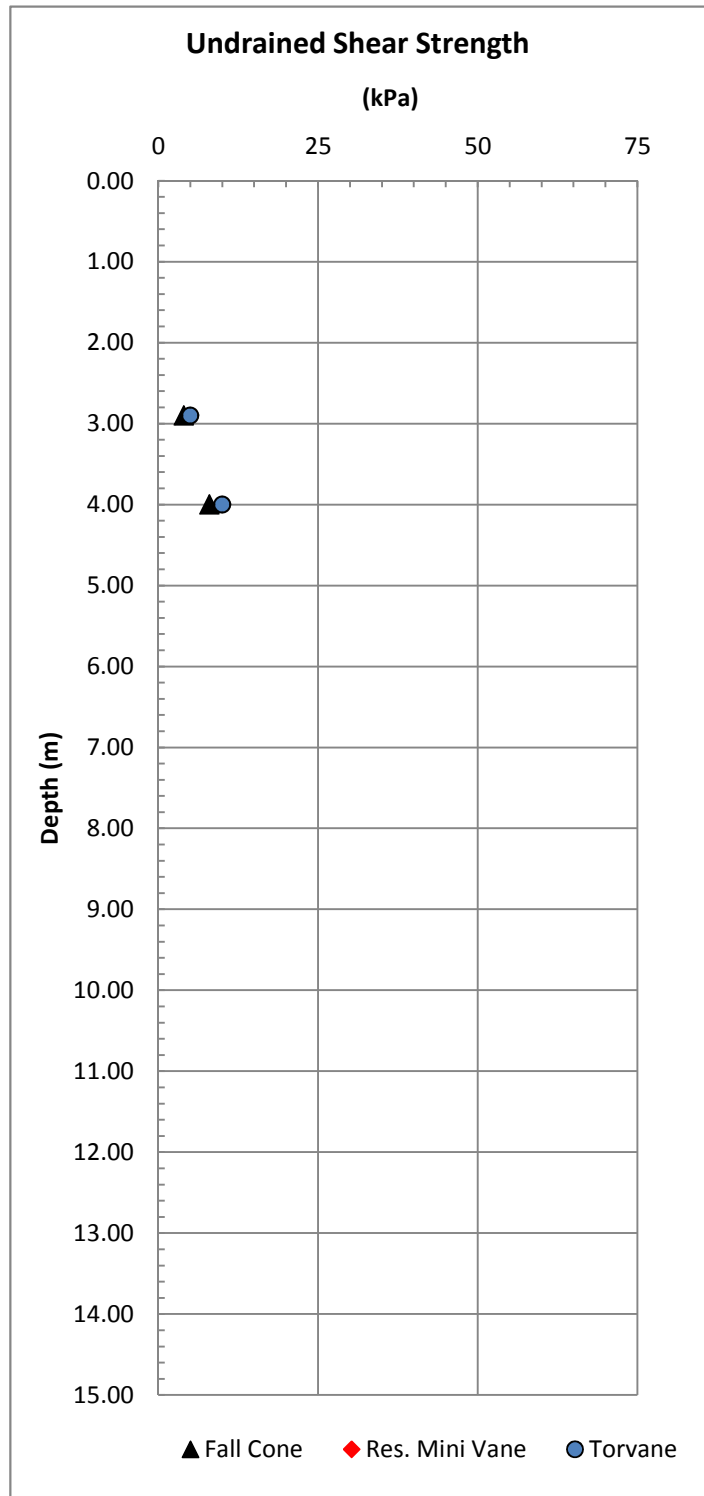
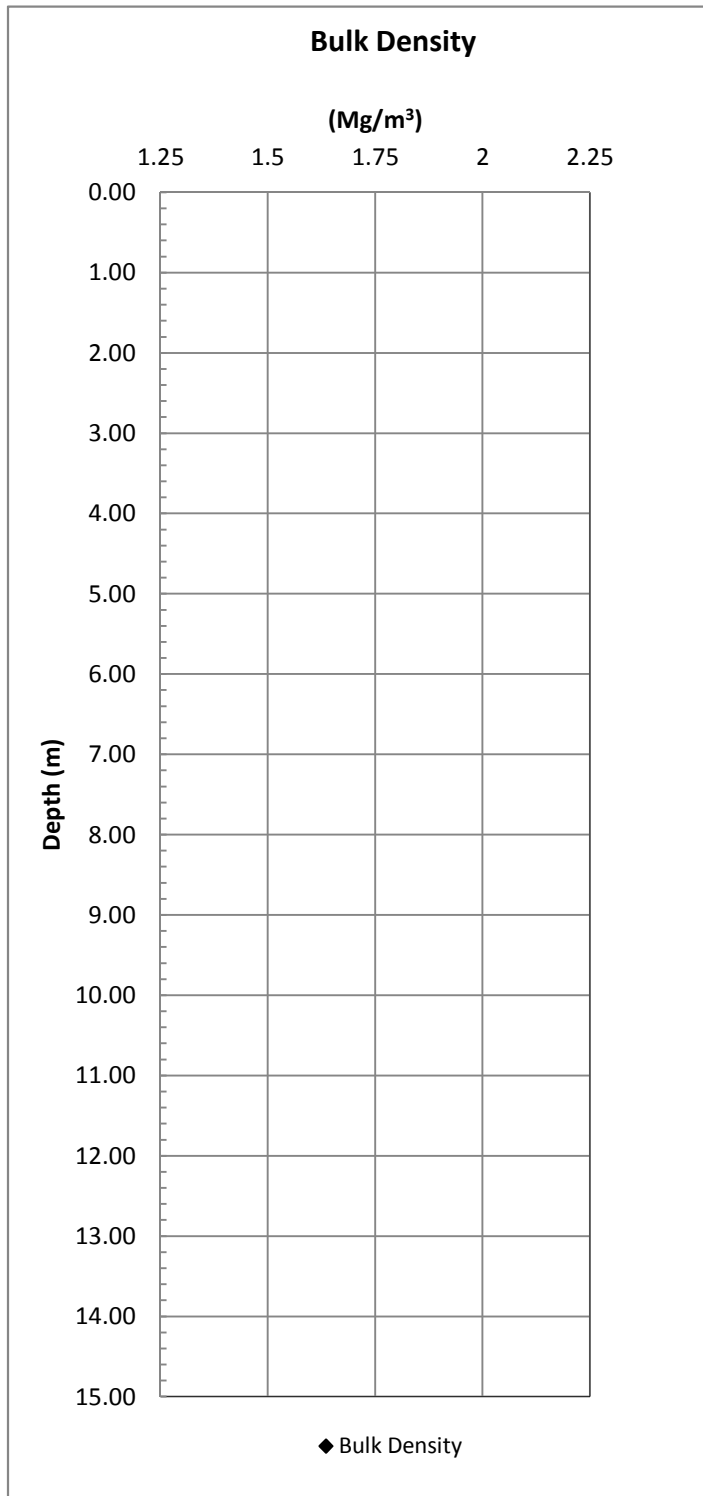
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Nerlerk V-Ner 2:7
Figure C.3
 10033 Beaufort Data



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Nerlerk V-Ner 2:8
Figure C.3
 10033 Beaufort Data

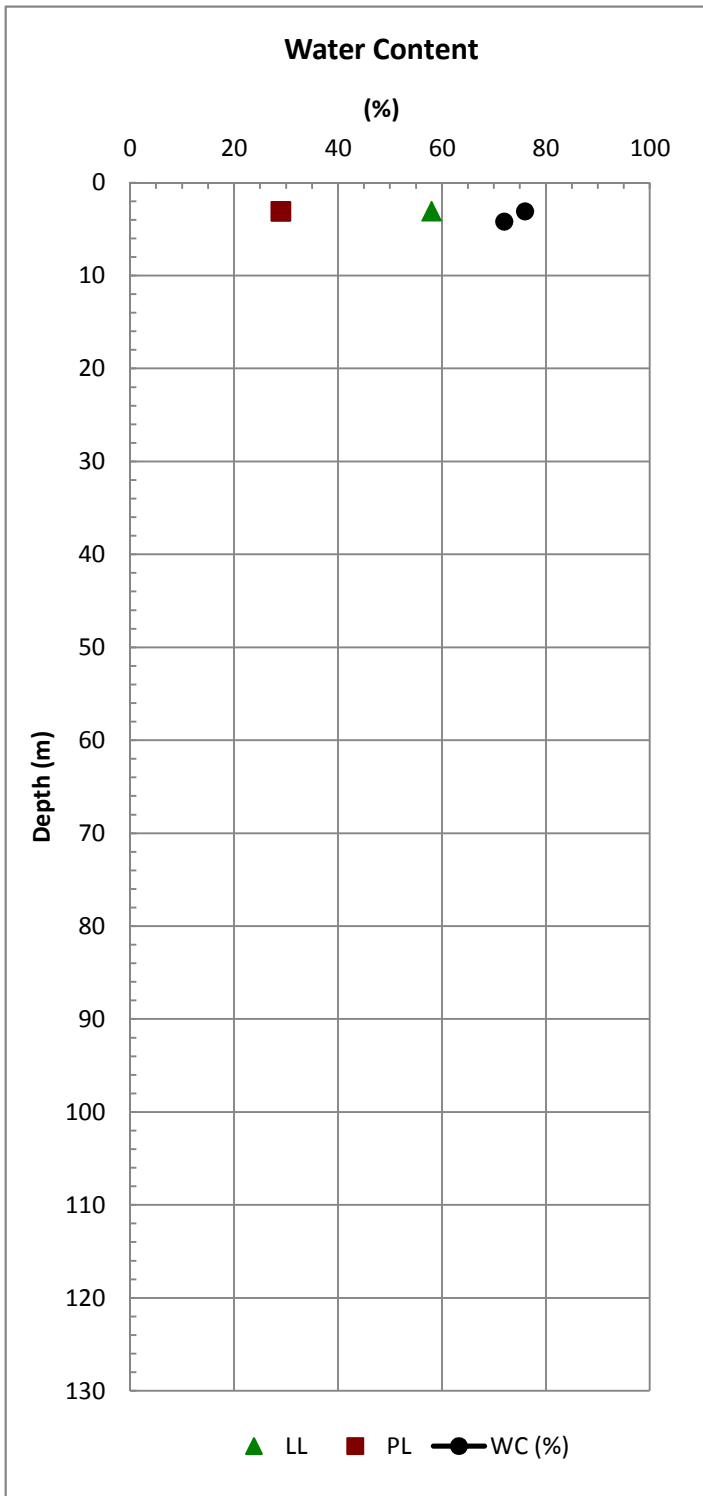
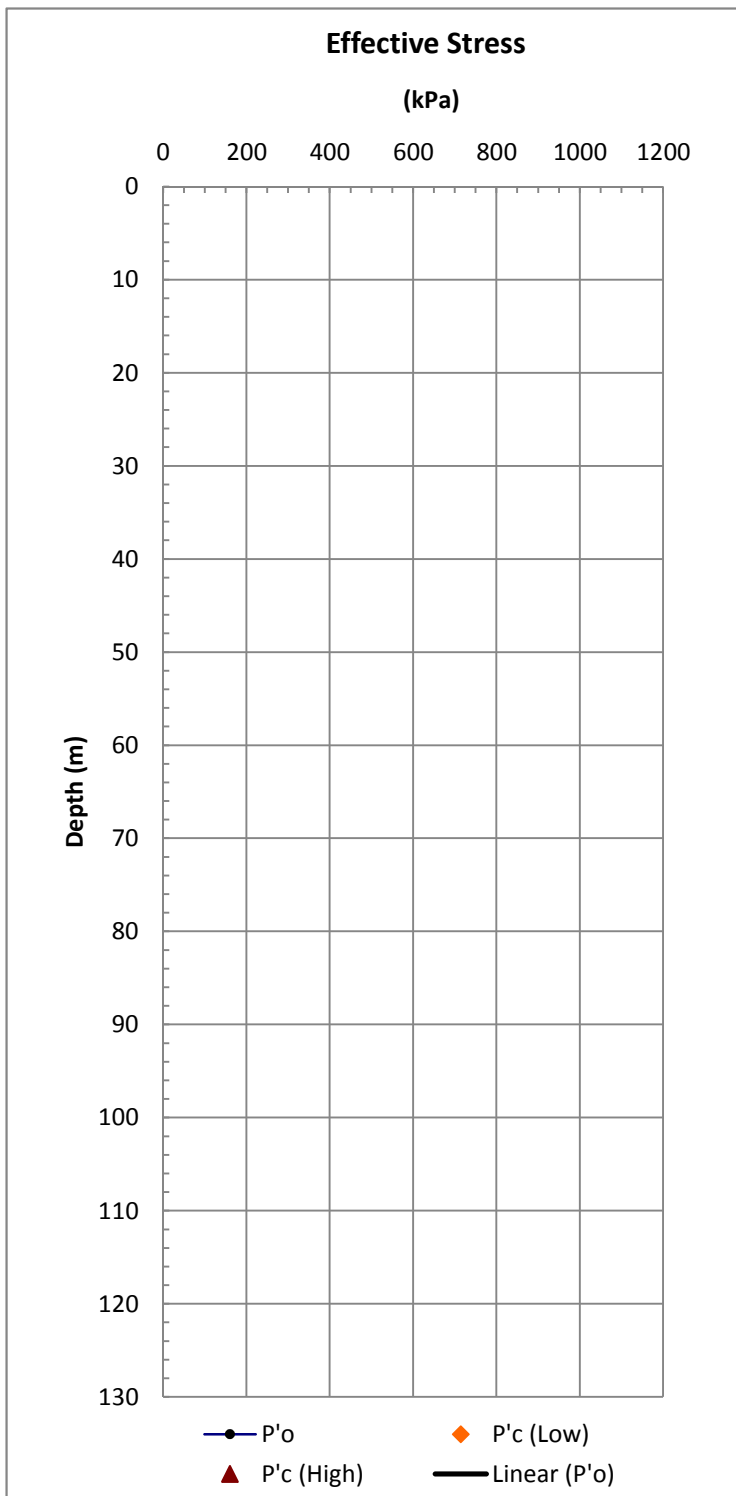
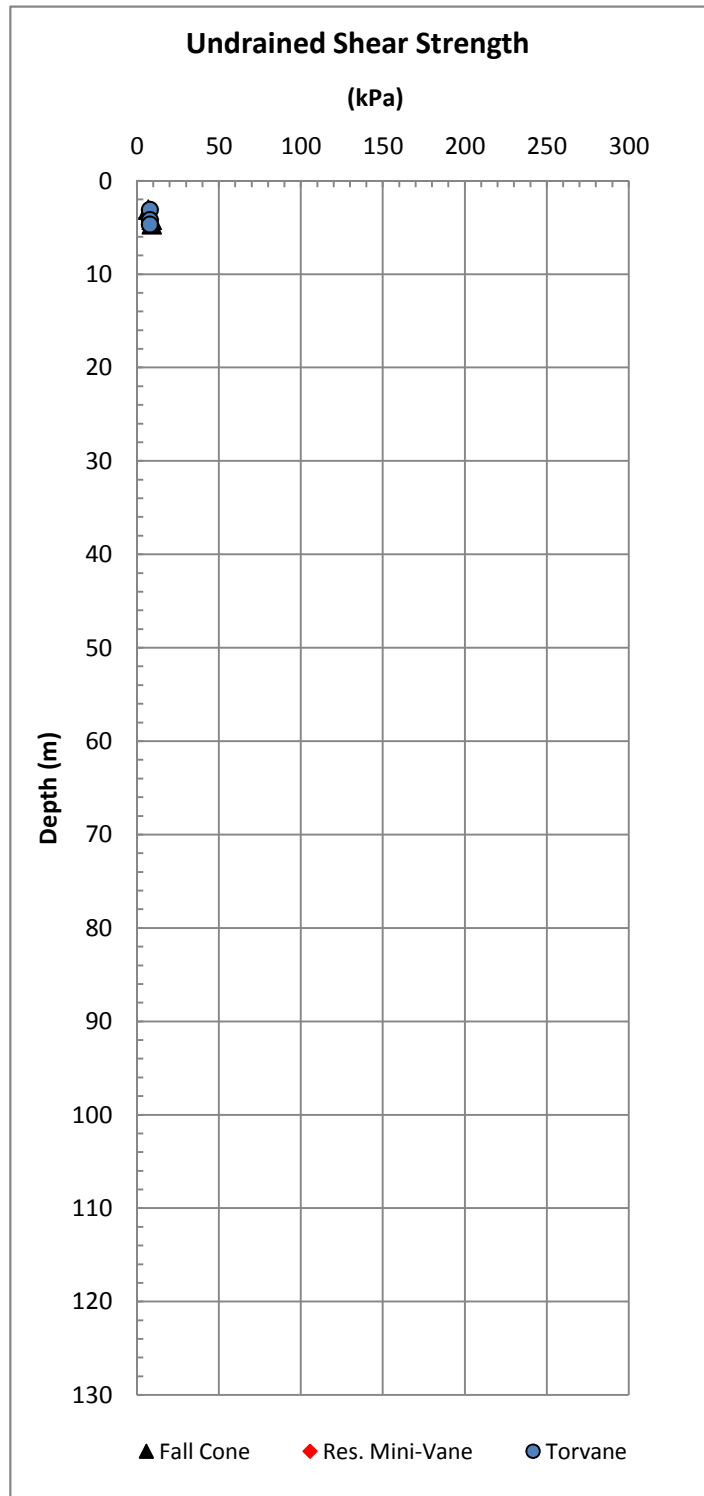
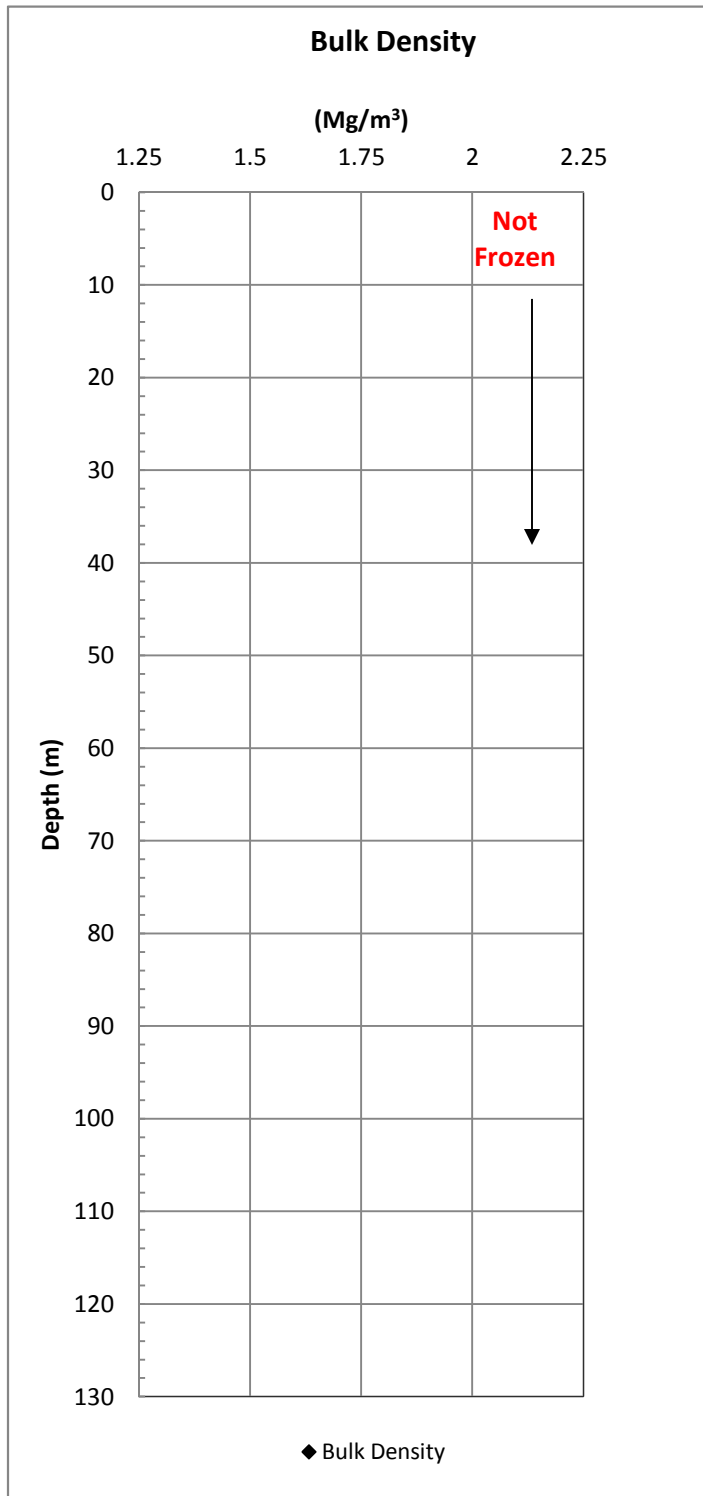


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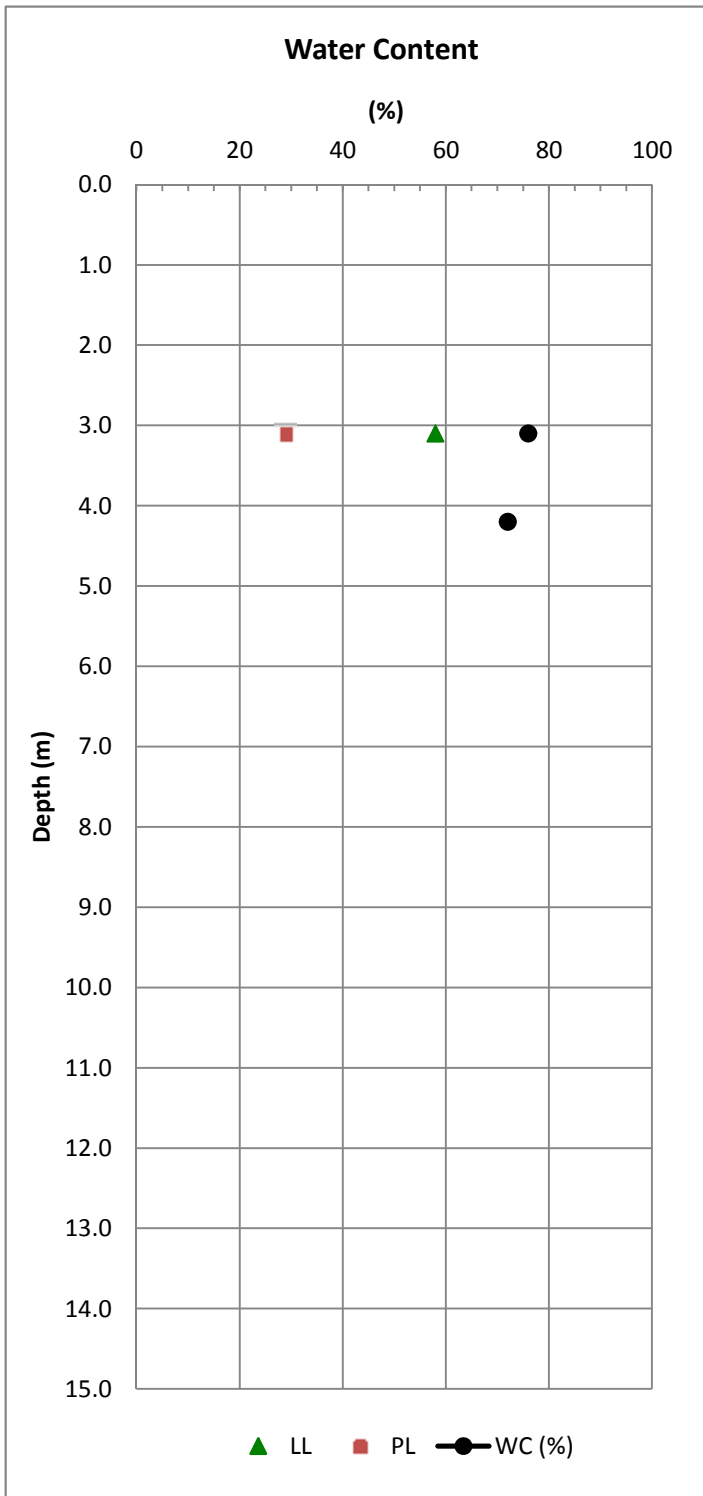
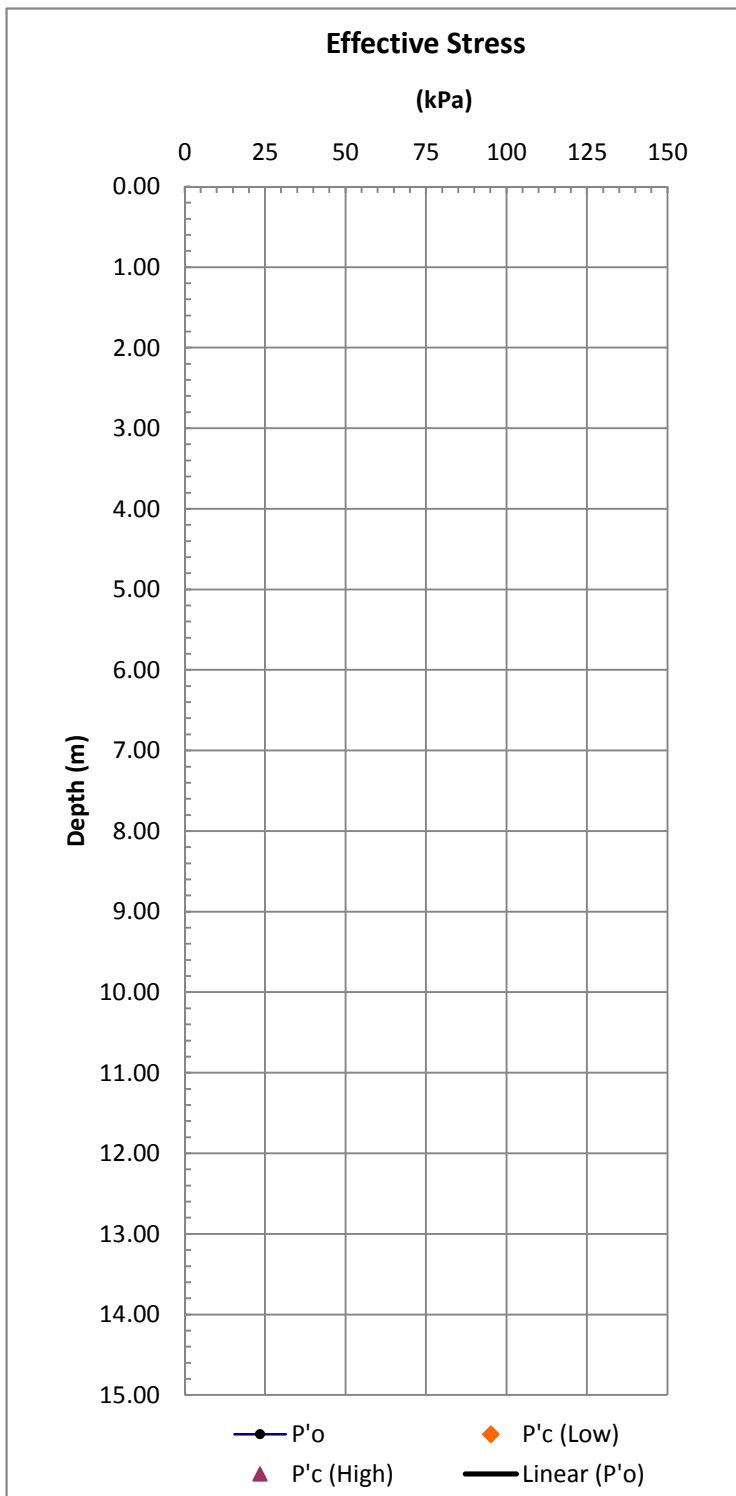
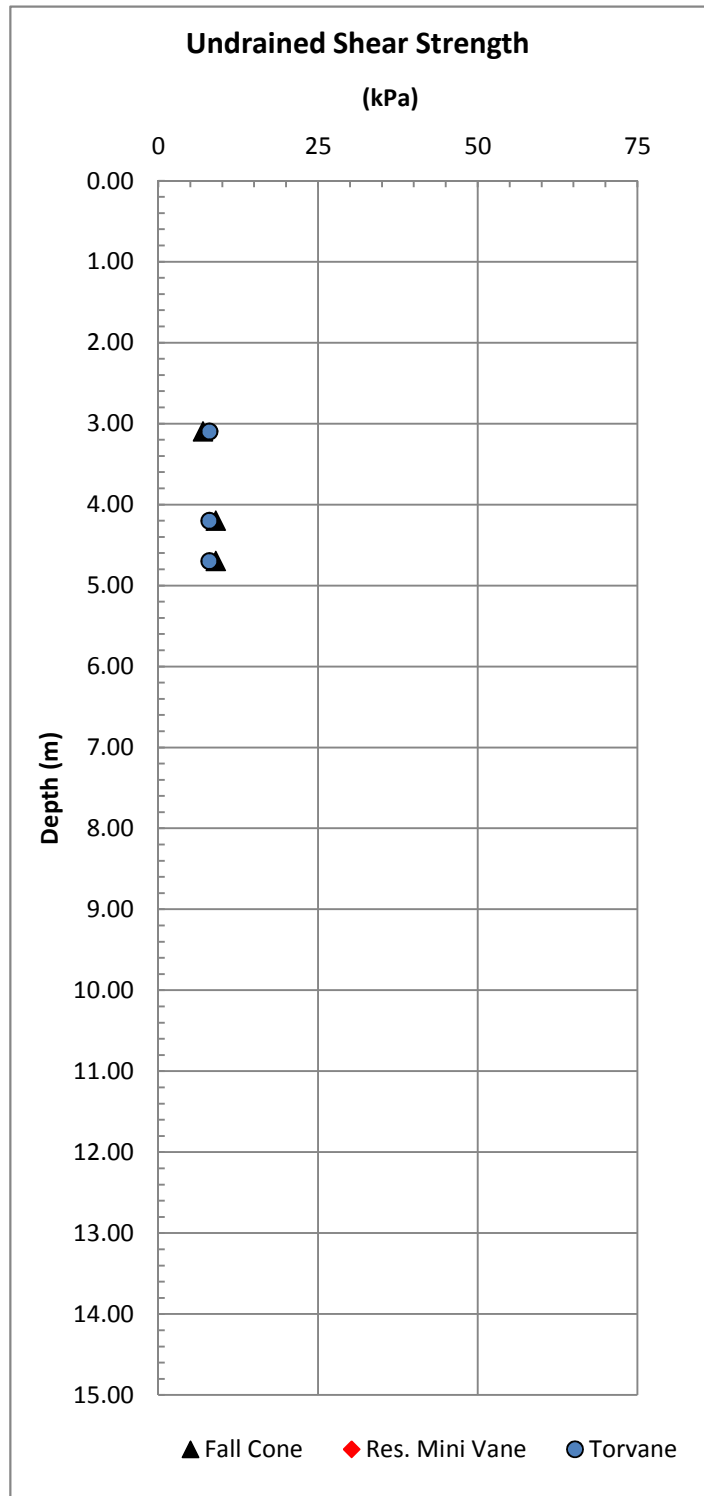
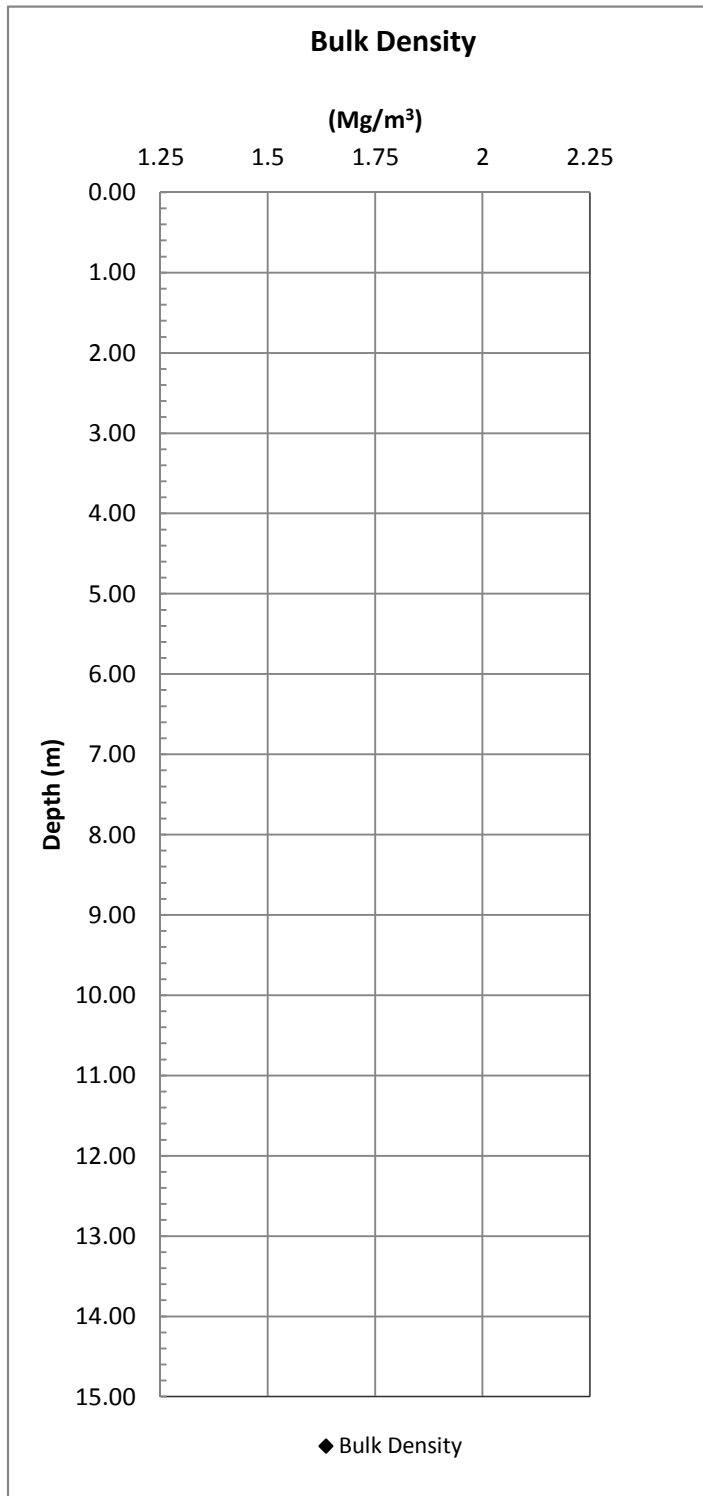
Figure C.3

10033 Beaufort Data



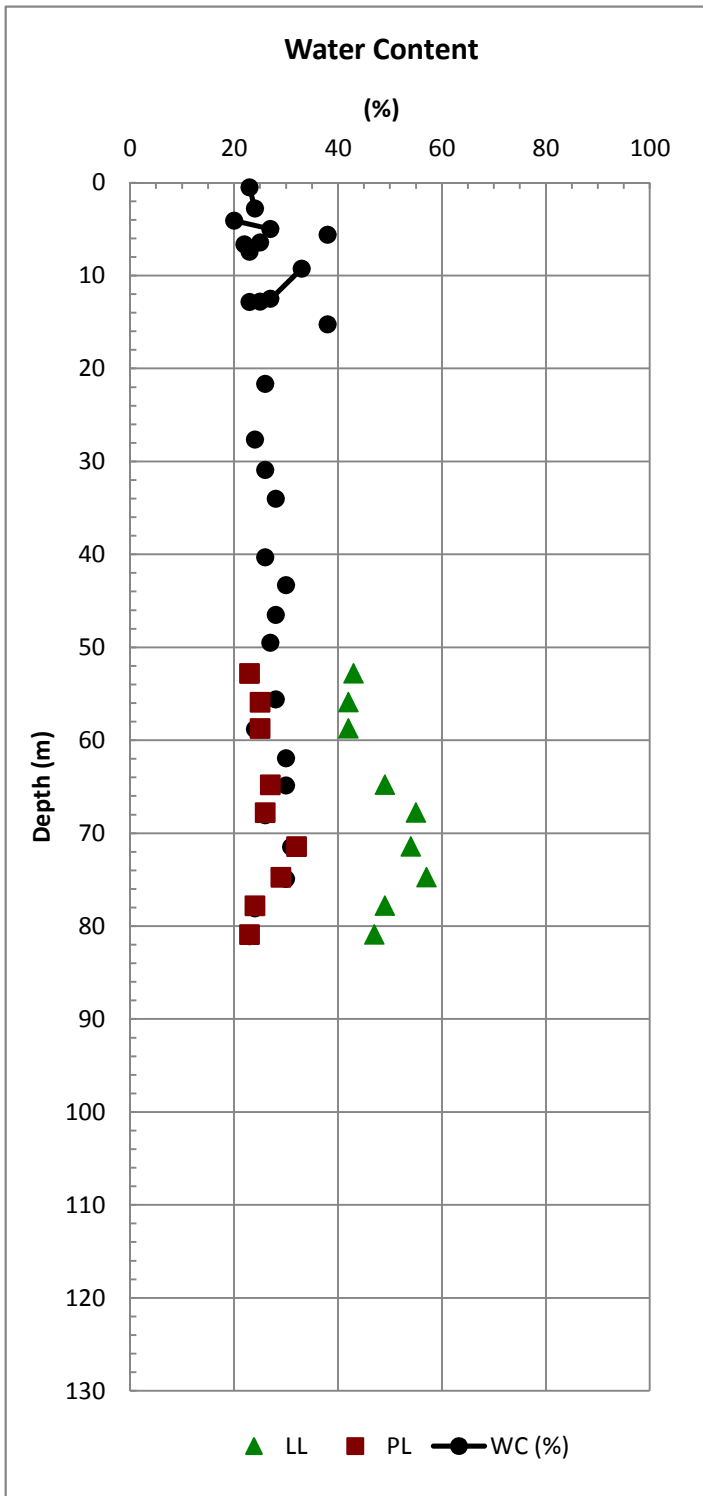
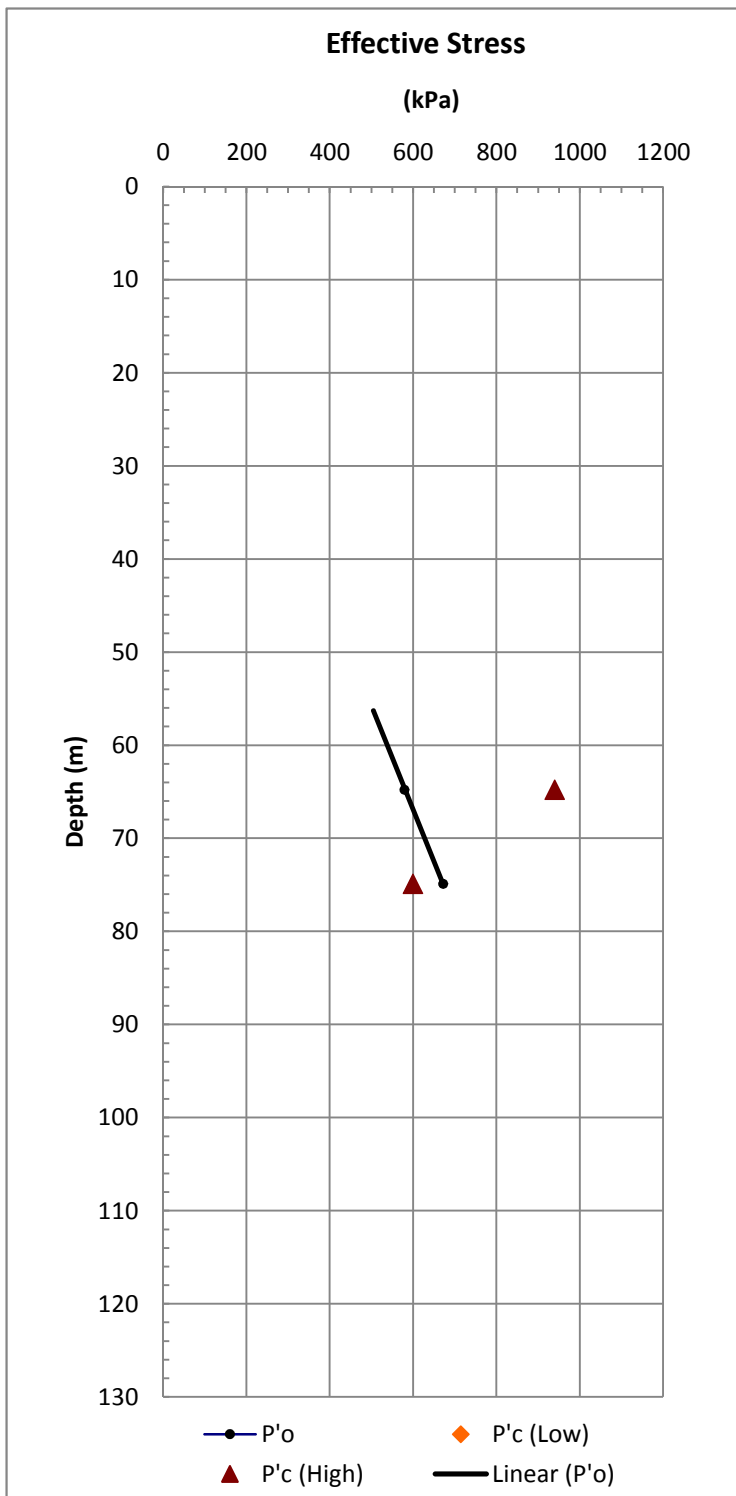
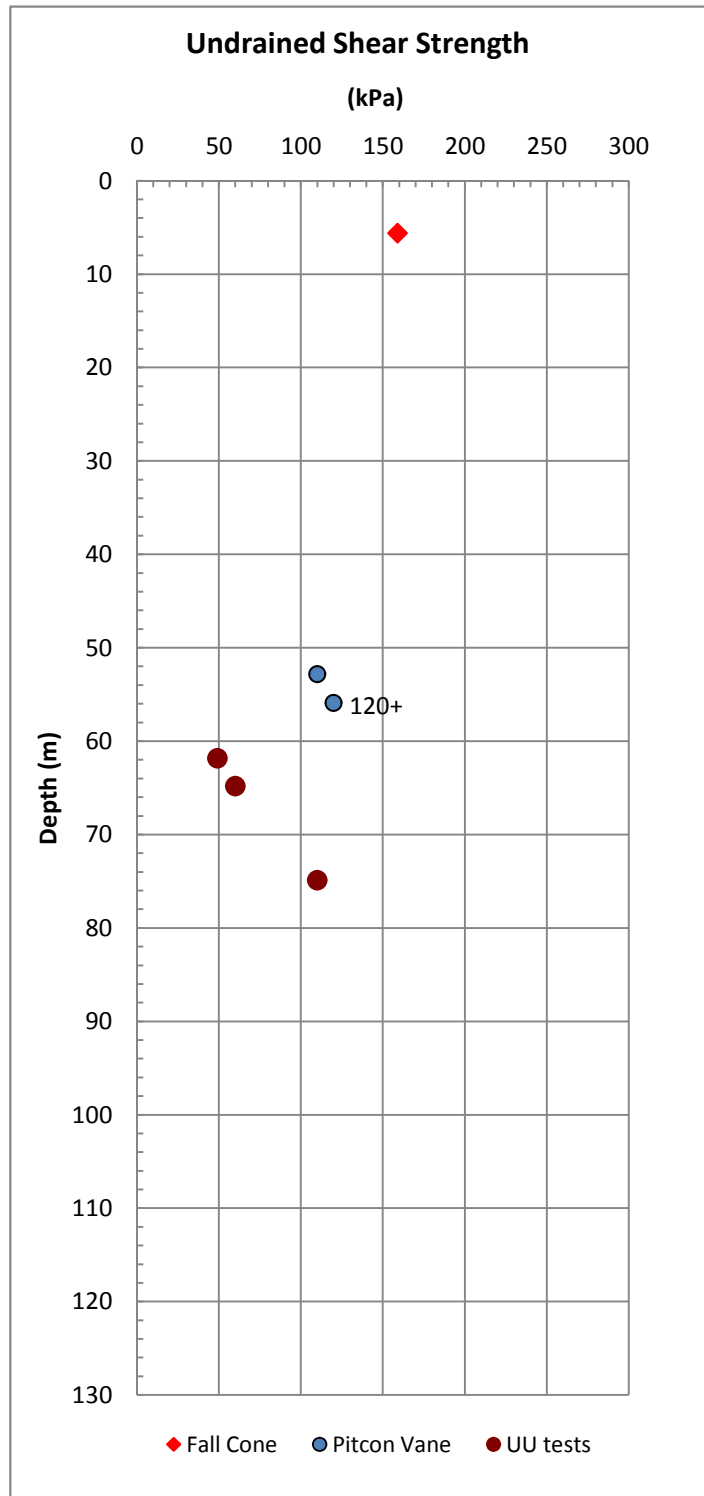
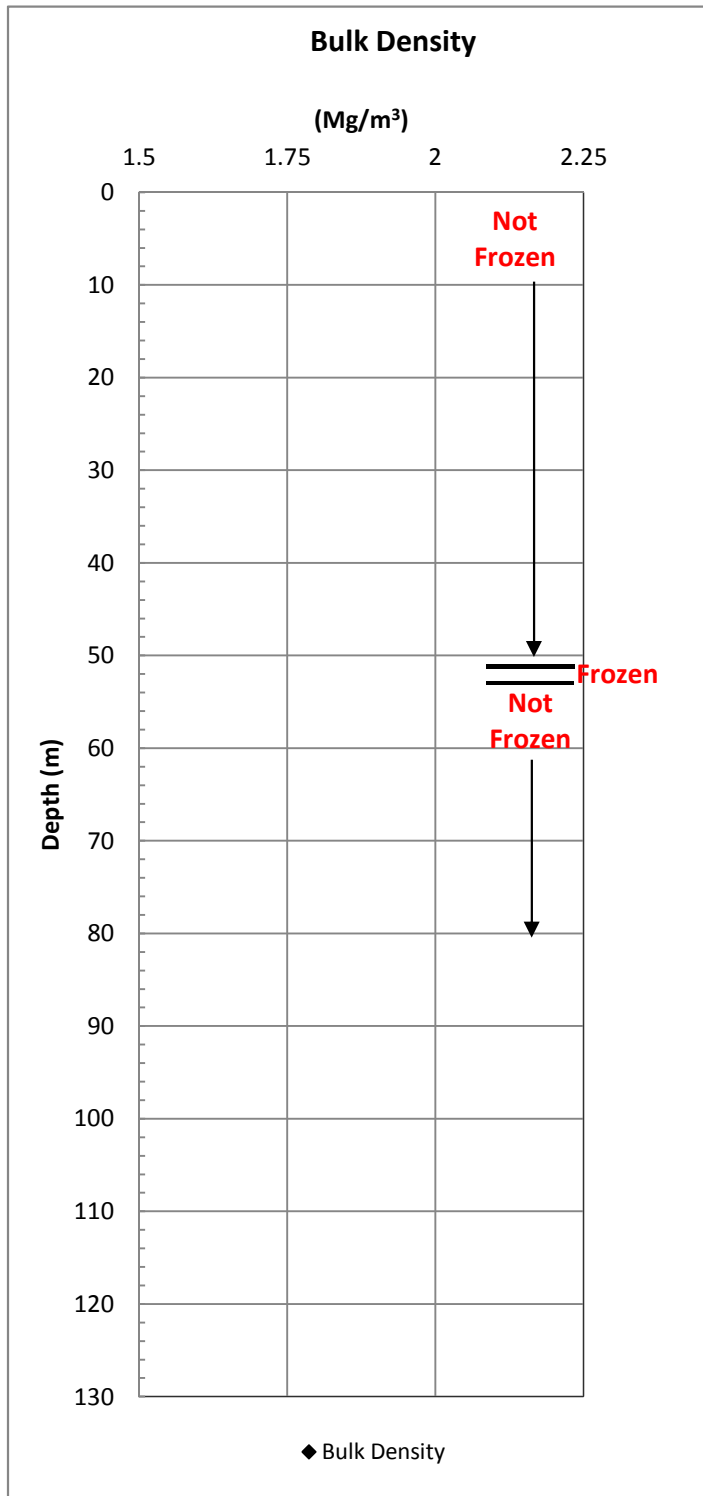
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Figure C.3
 10033 Beaufort Data



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Figure C.3
 10033 Beaufort Data

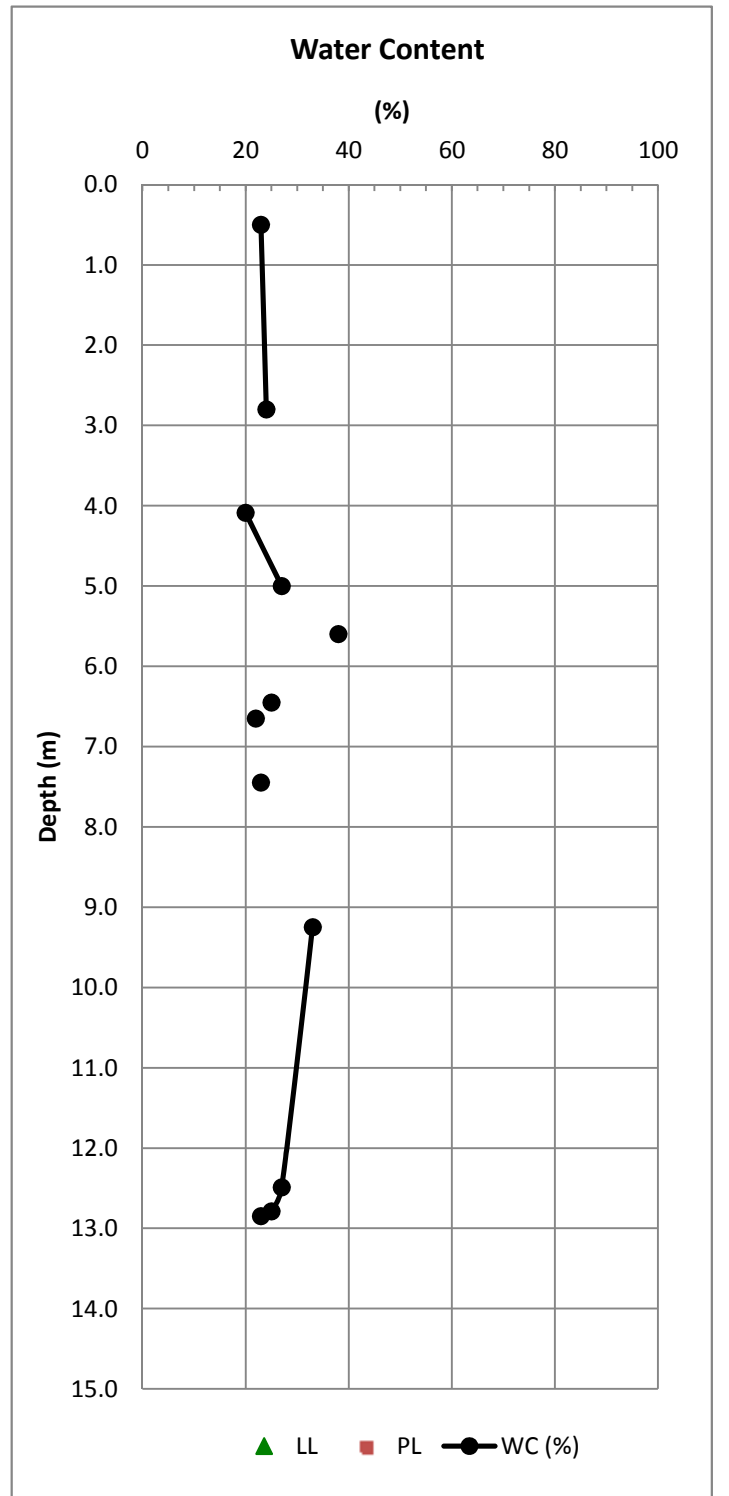
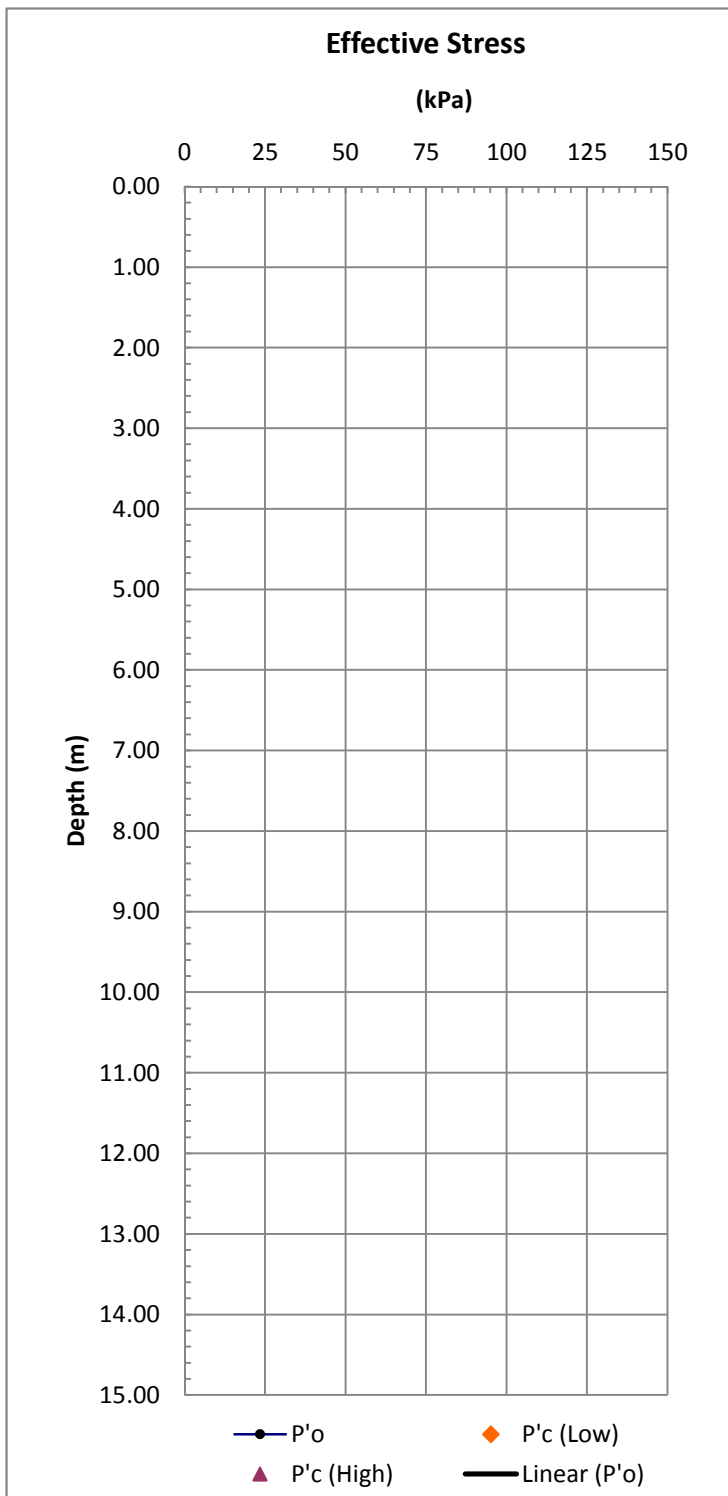
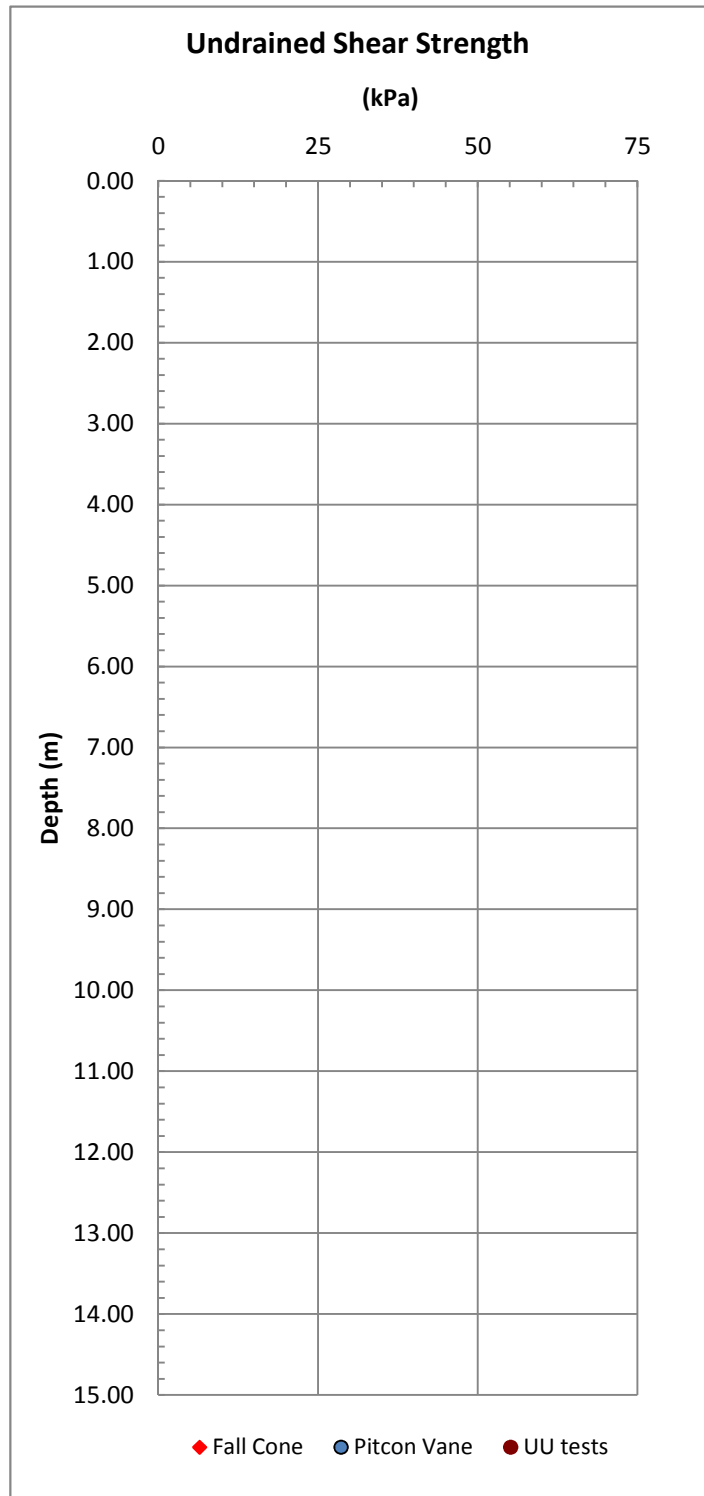
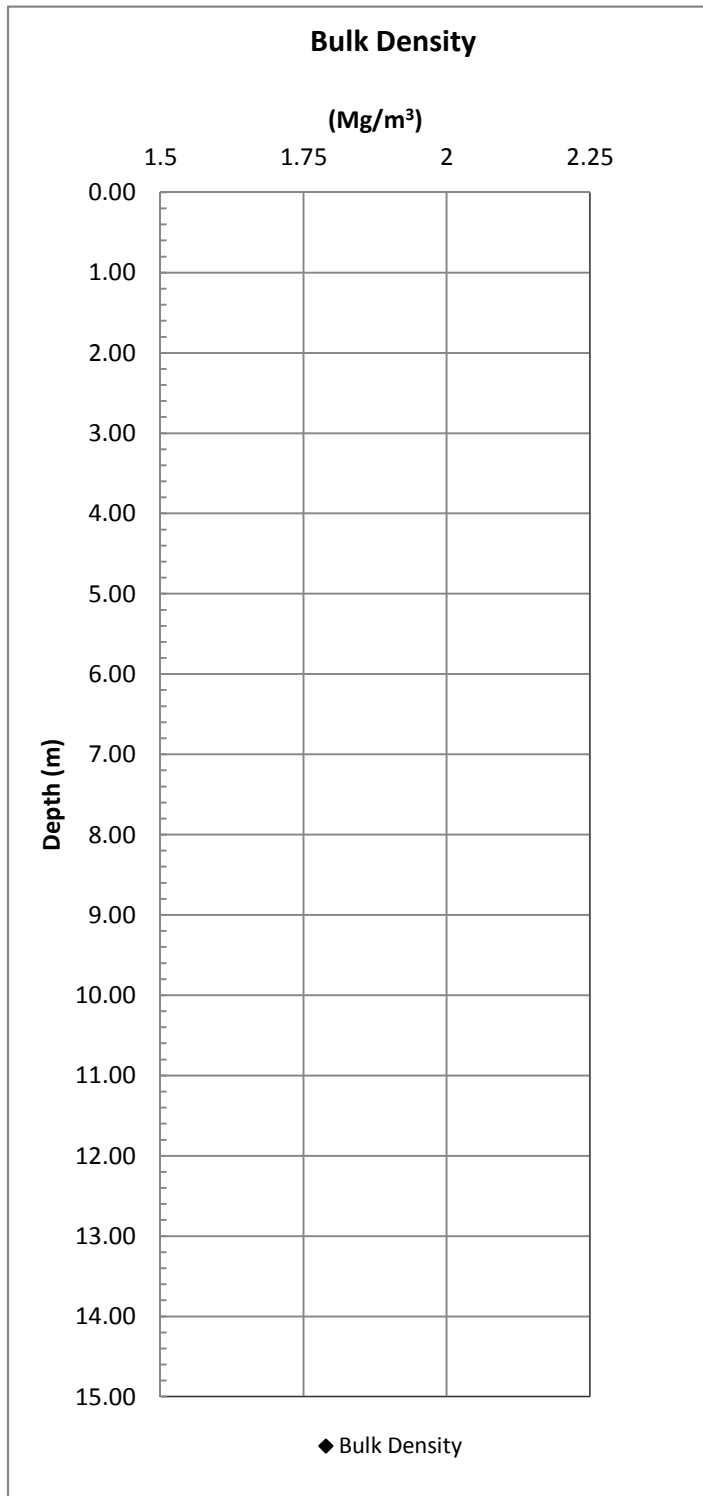


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North Tingmiark NT82S01

Figure C.3

10033 Beaufort Data

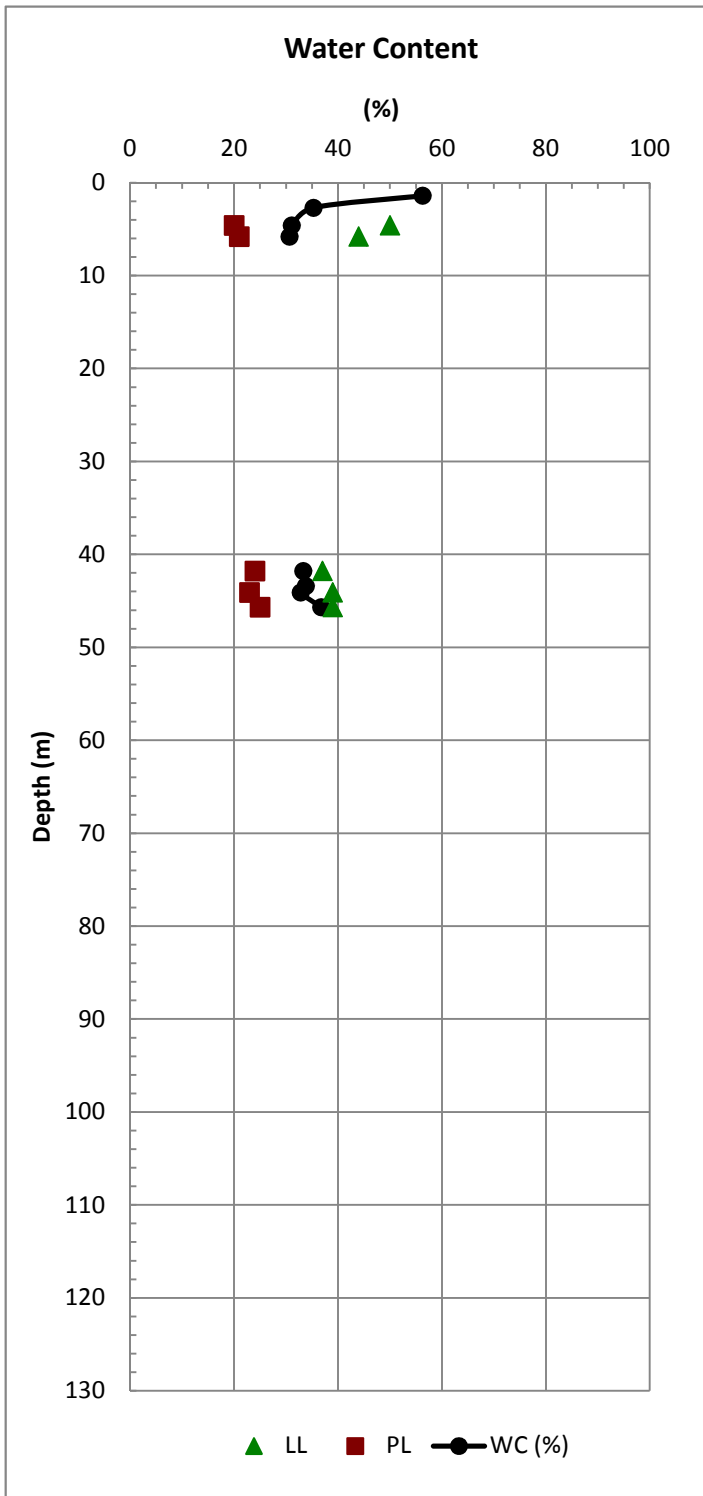
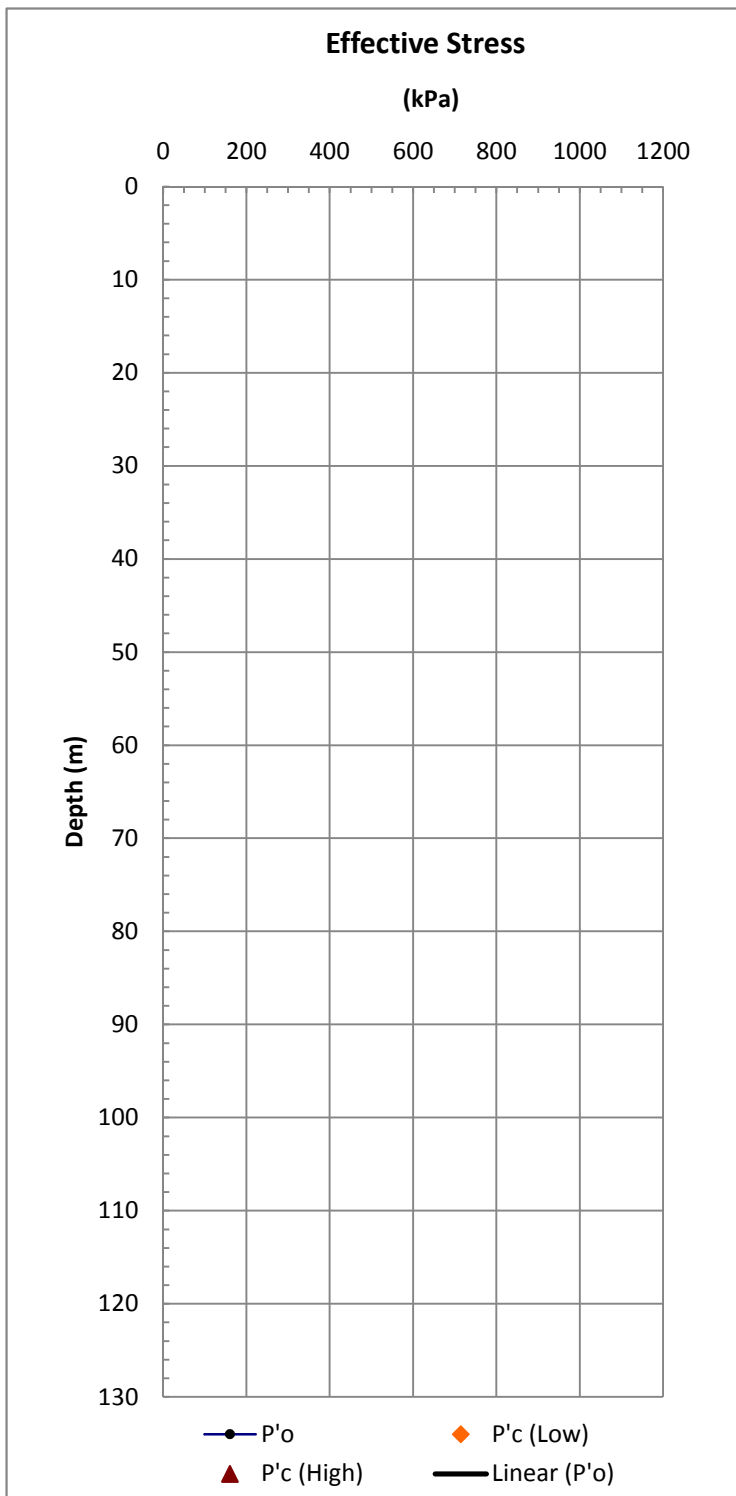
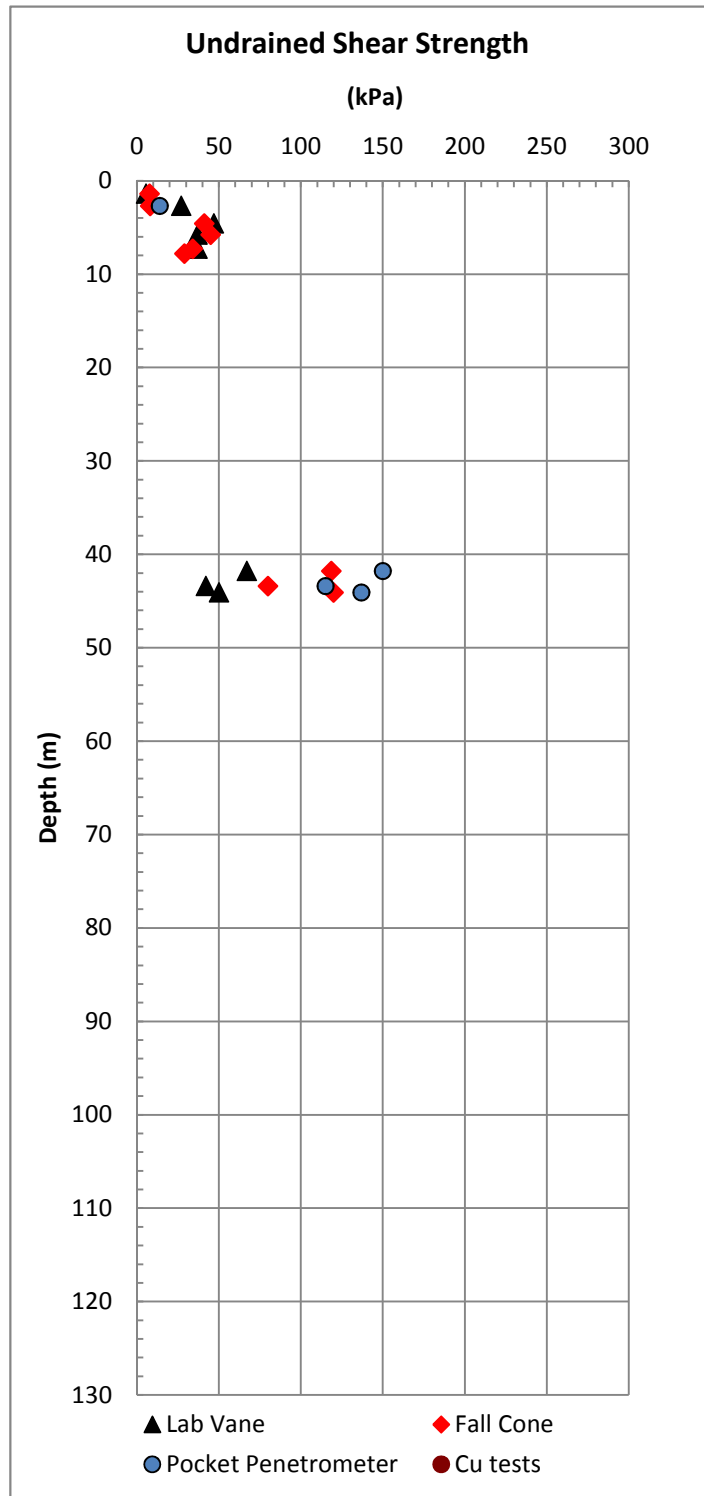
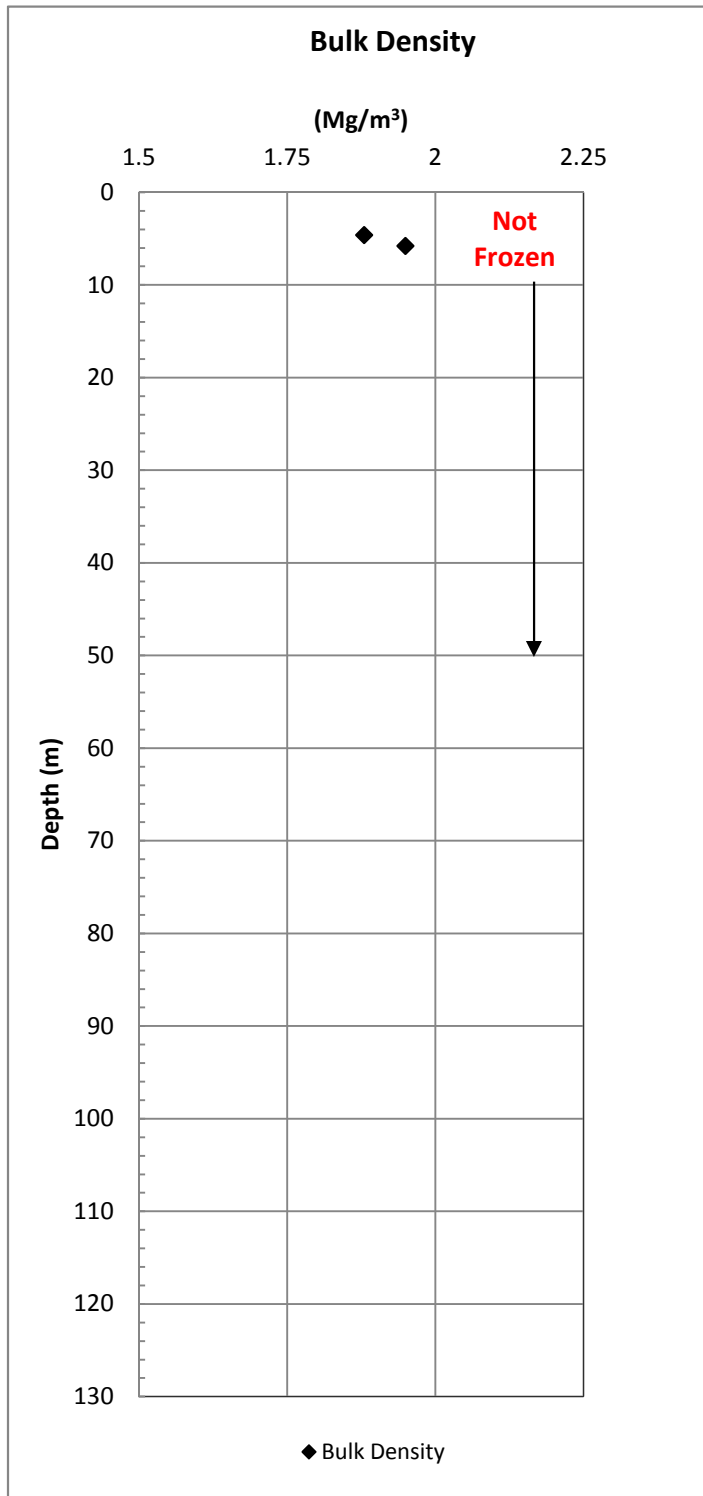


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North Tingmiark NT82S01

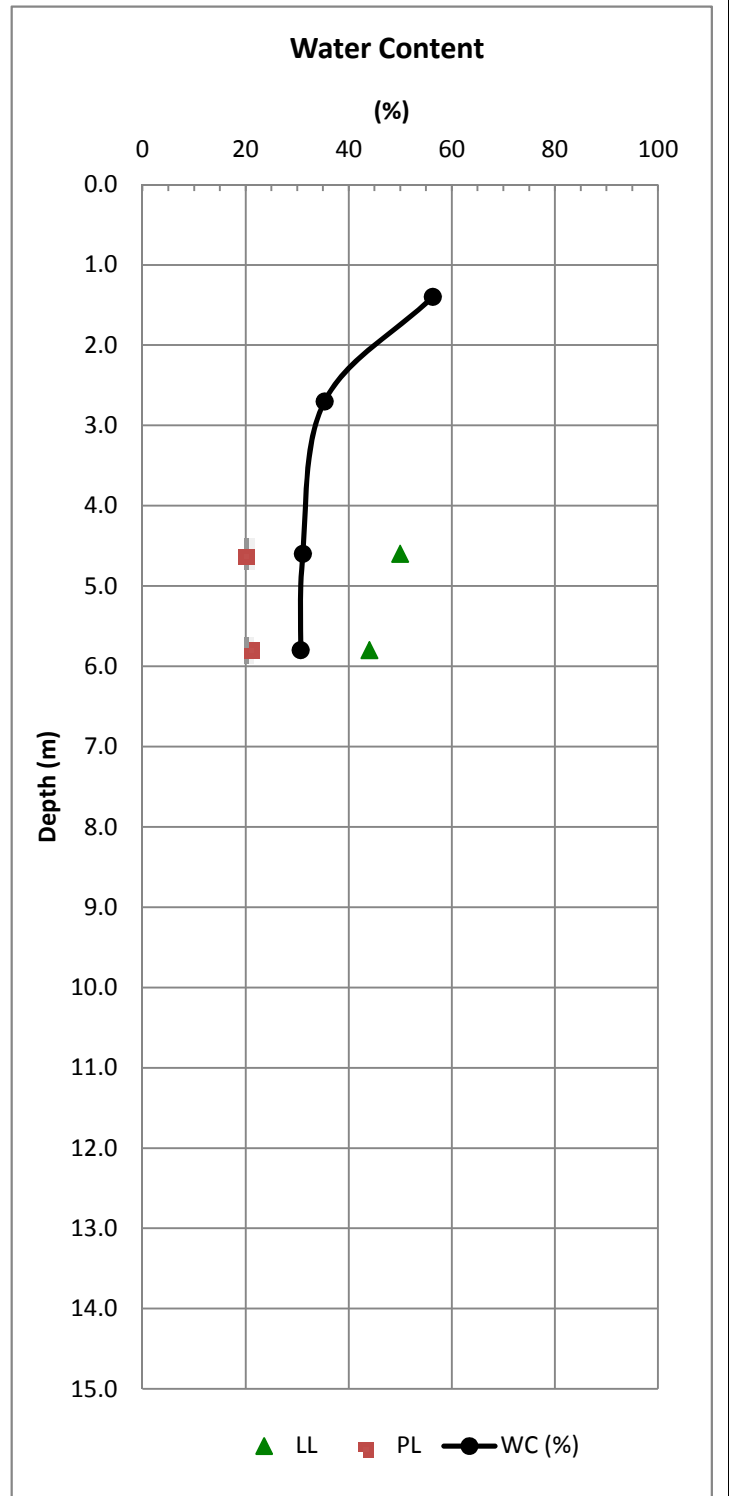
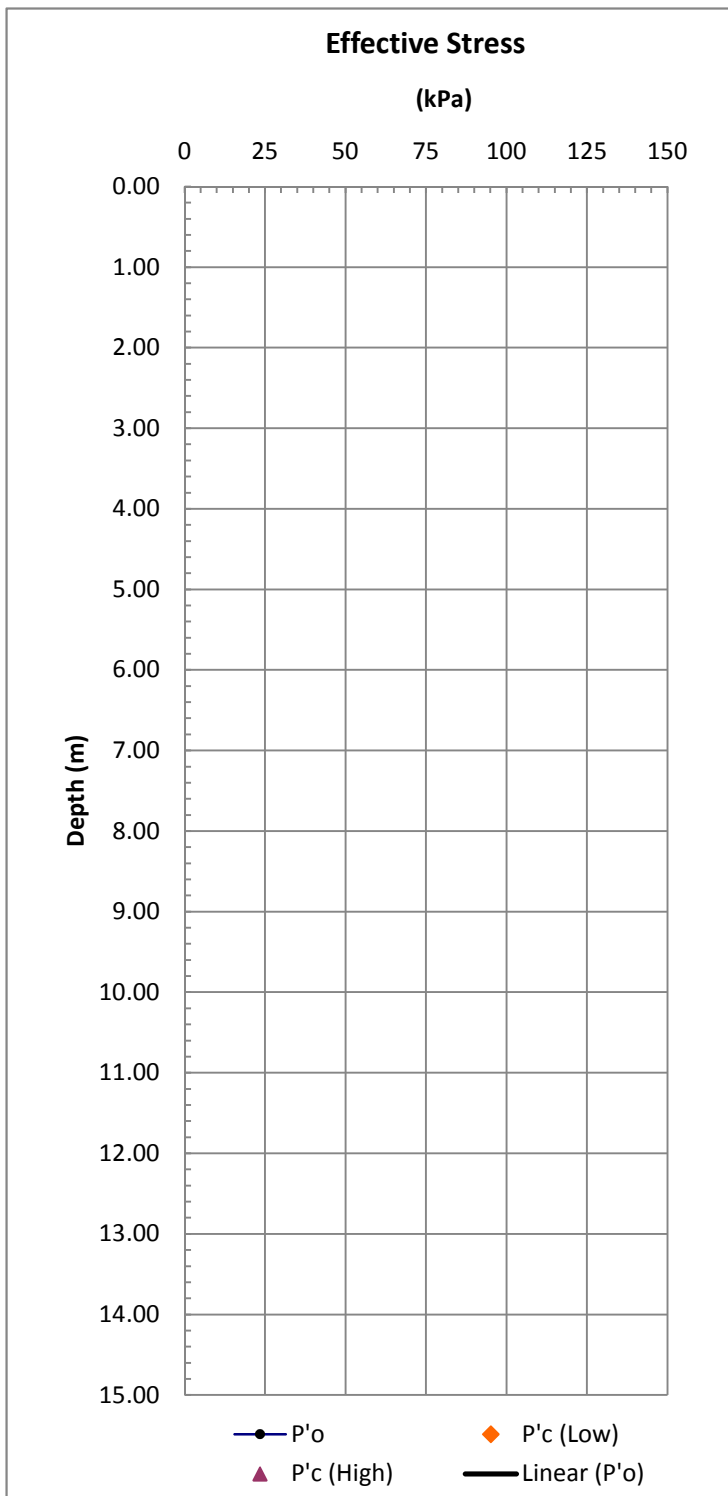
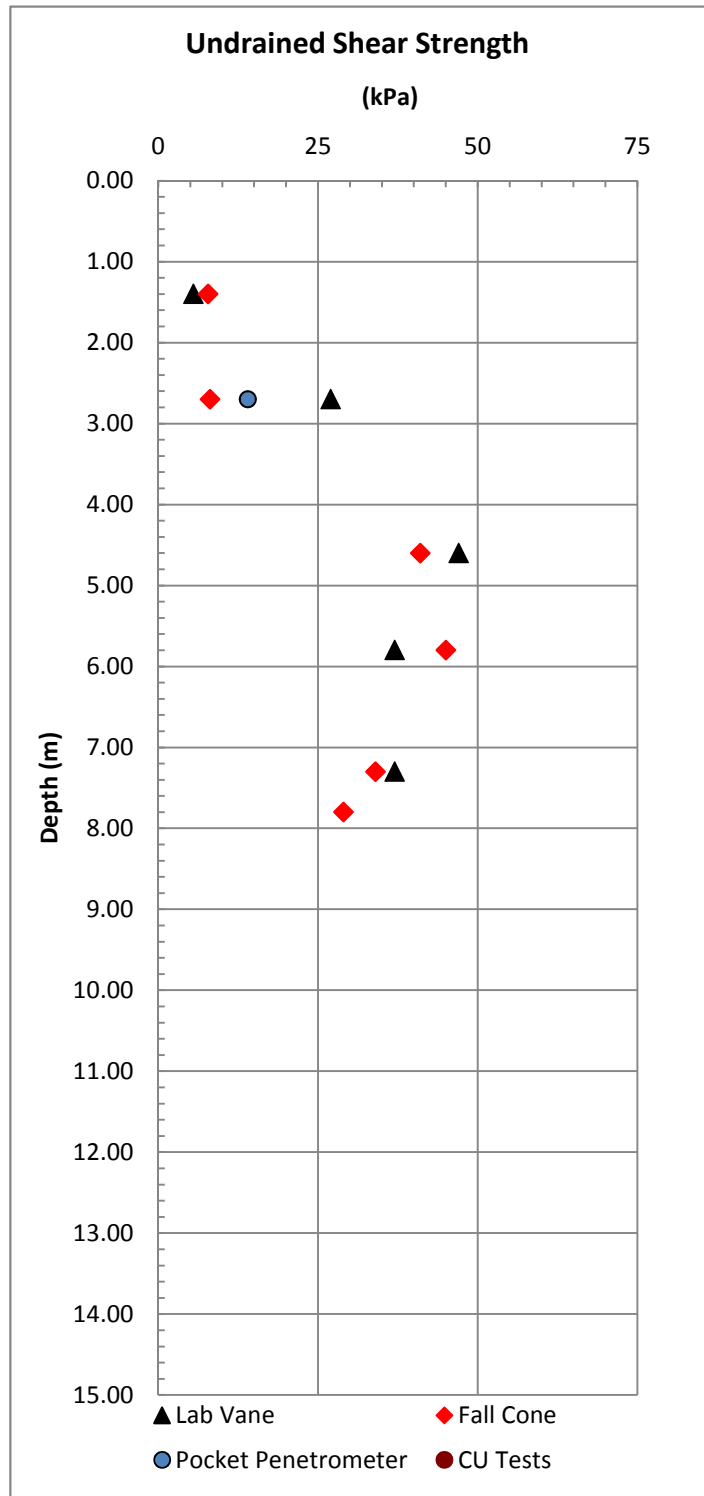
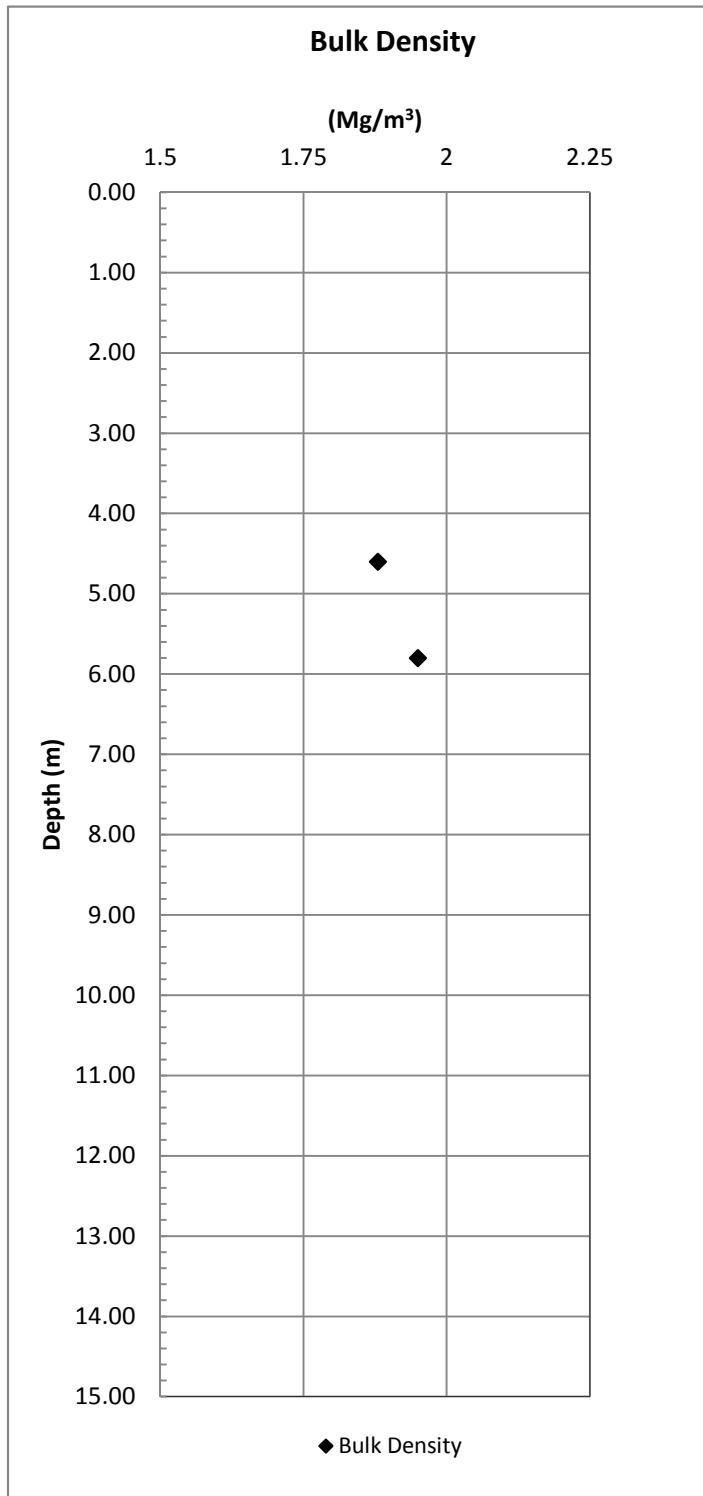
Figure C.3

10033 Beaufort Data



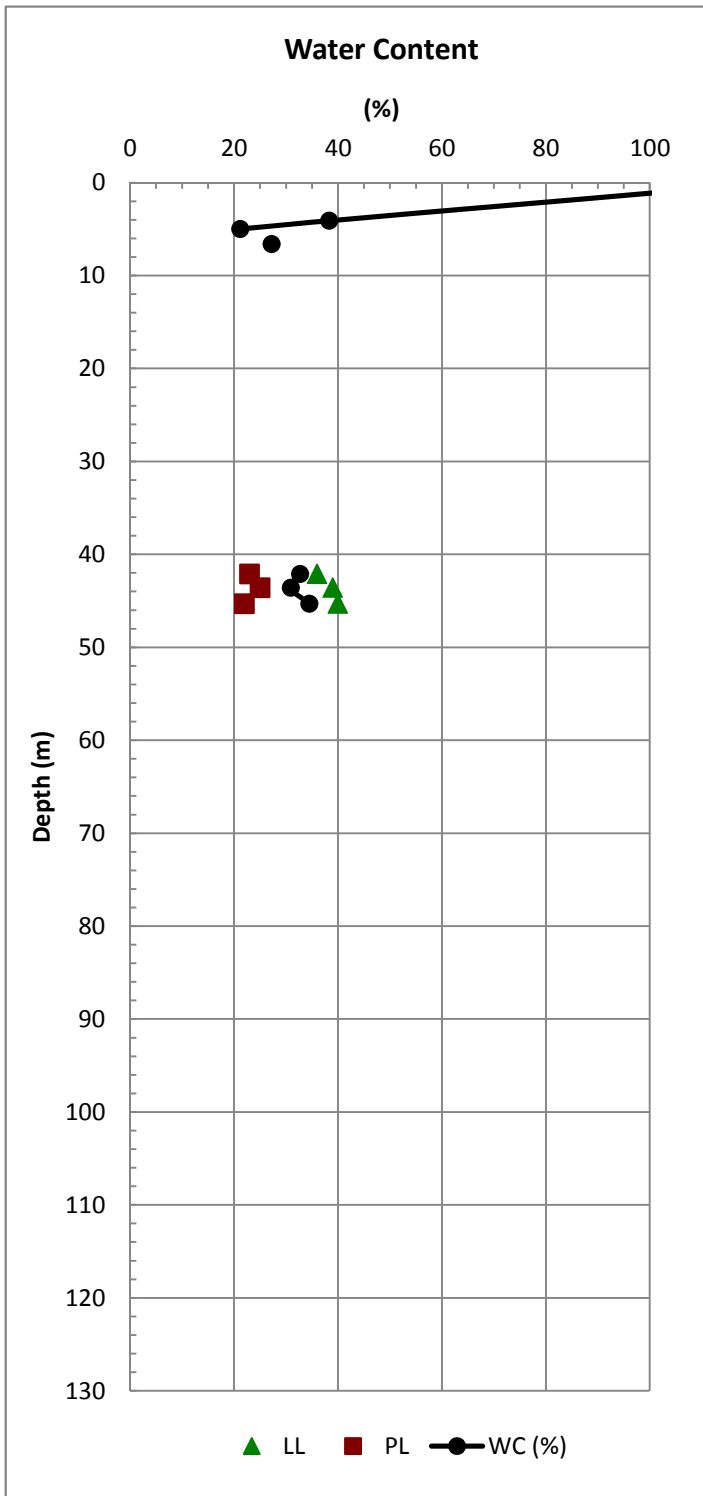
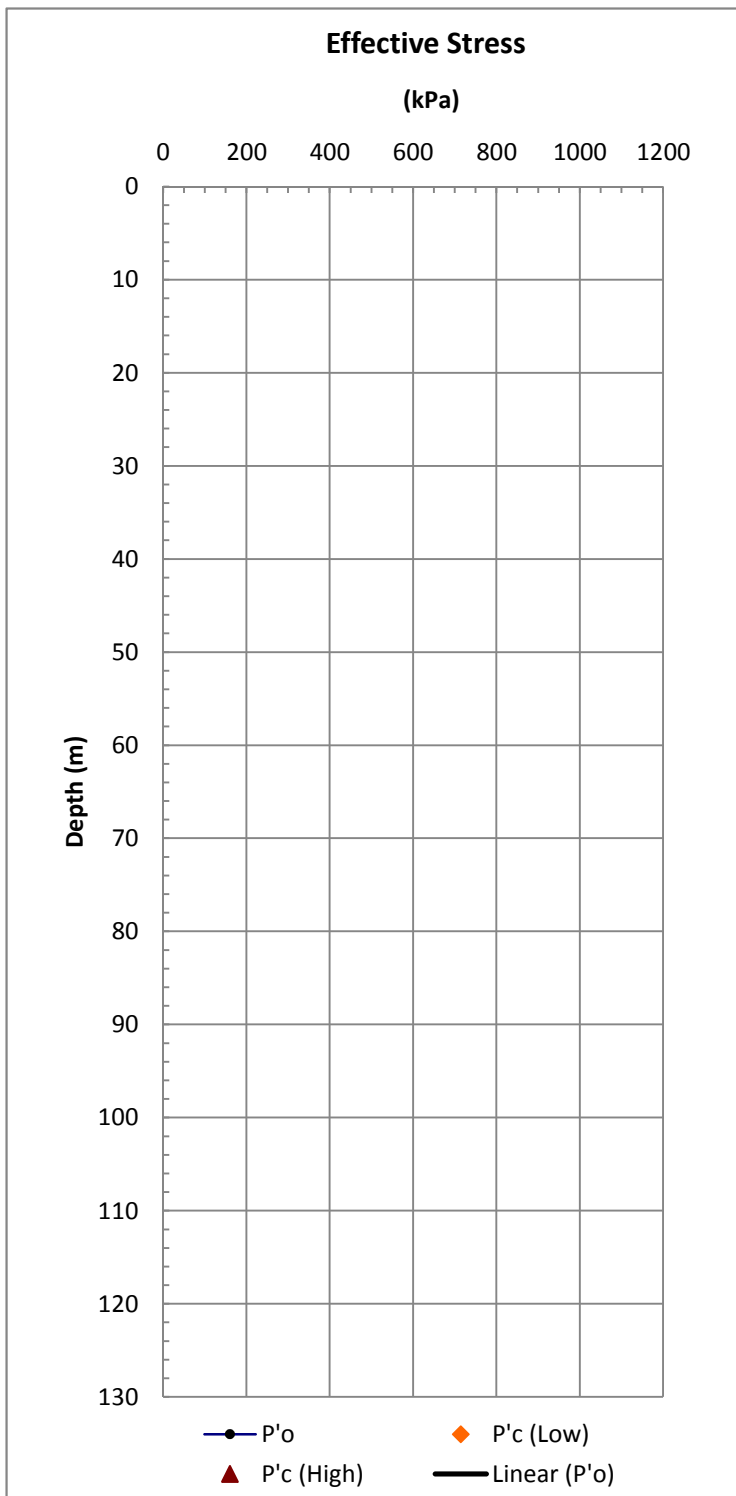
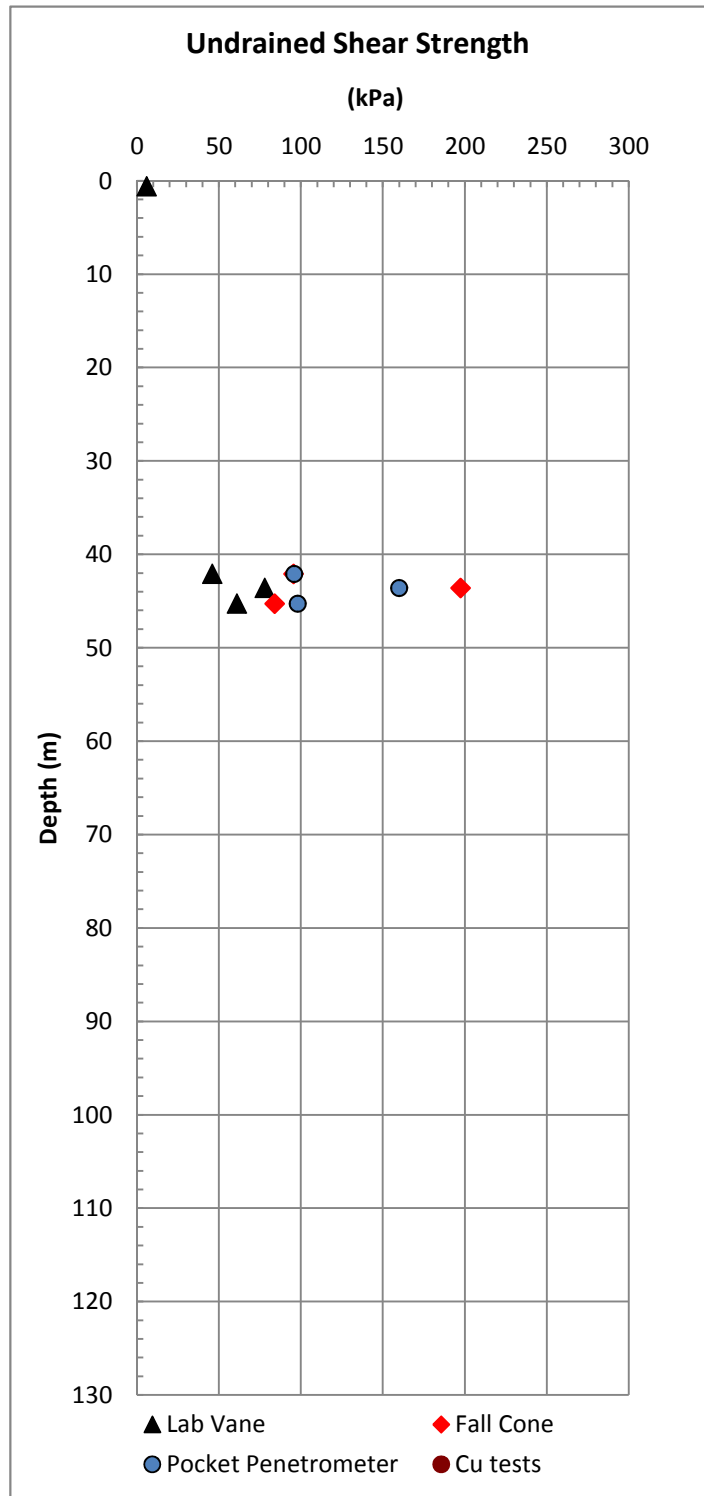
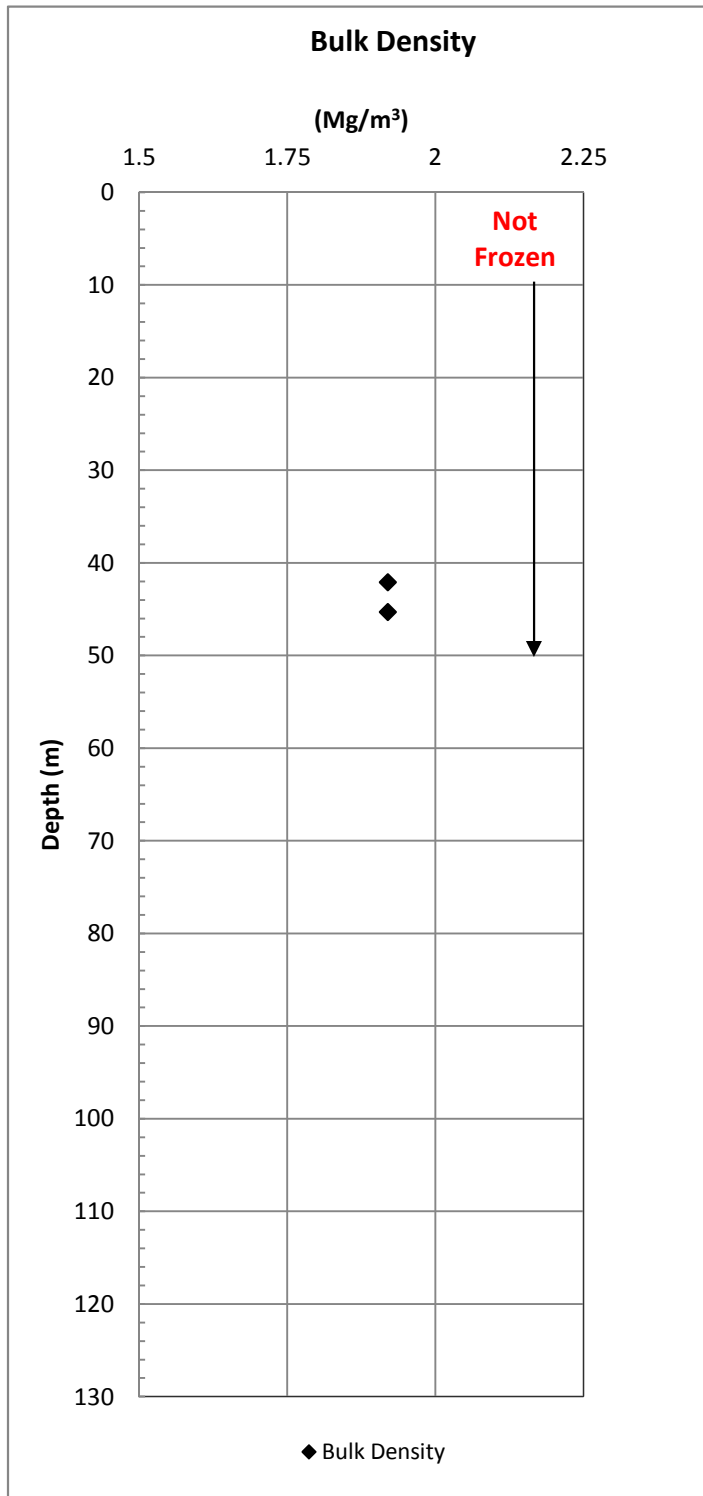
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 2000-10th Street, Suite 110
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West Amauligak BH-1
Figure C.3
 10033 Beaufort Data



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West Amauligak BH-1
Figure C.3
 10033 Beaufort Data

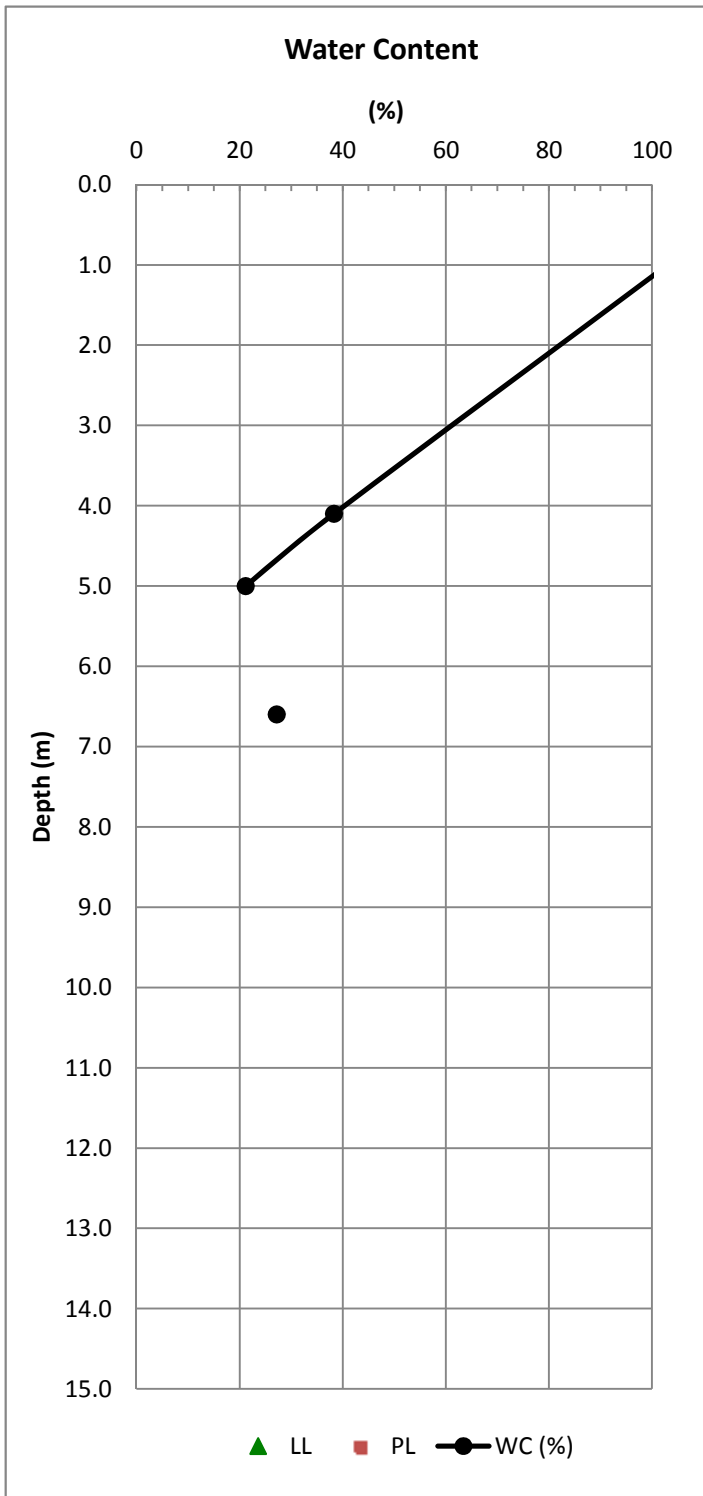
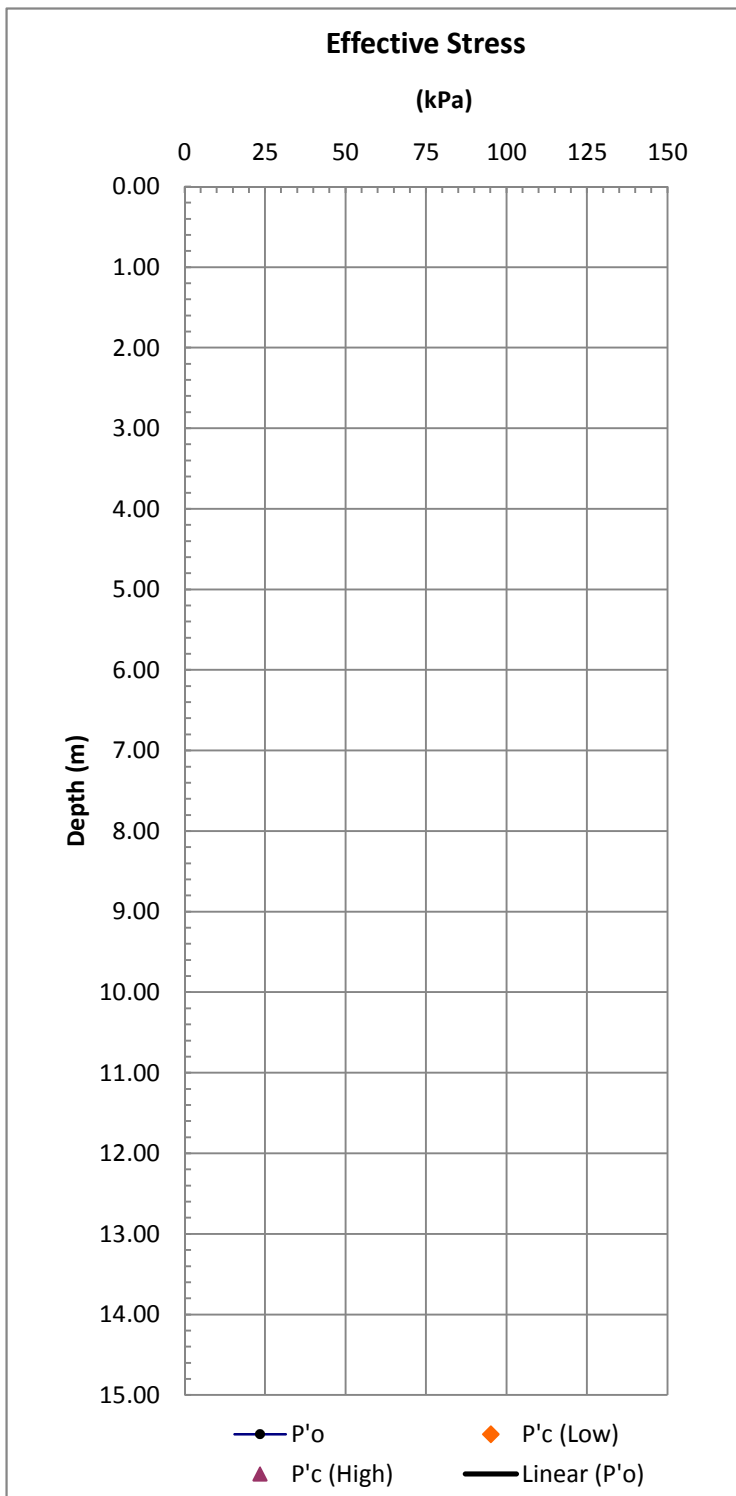
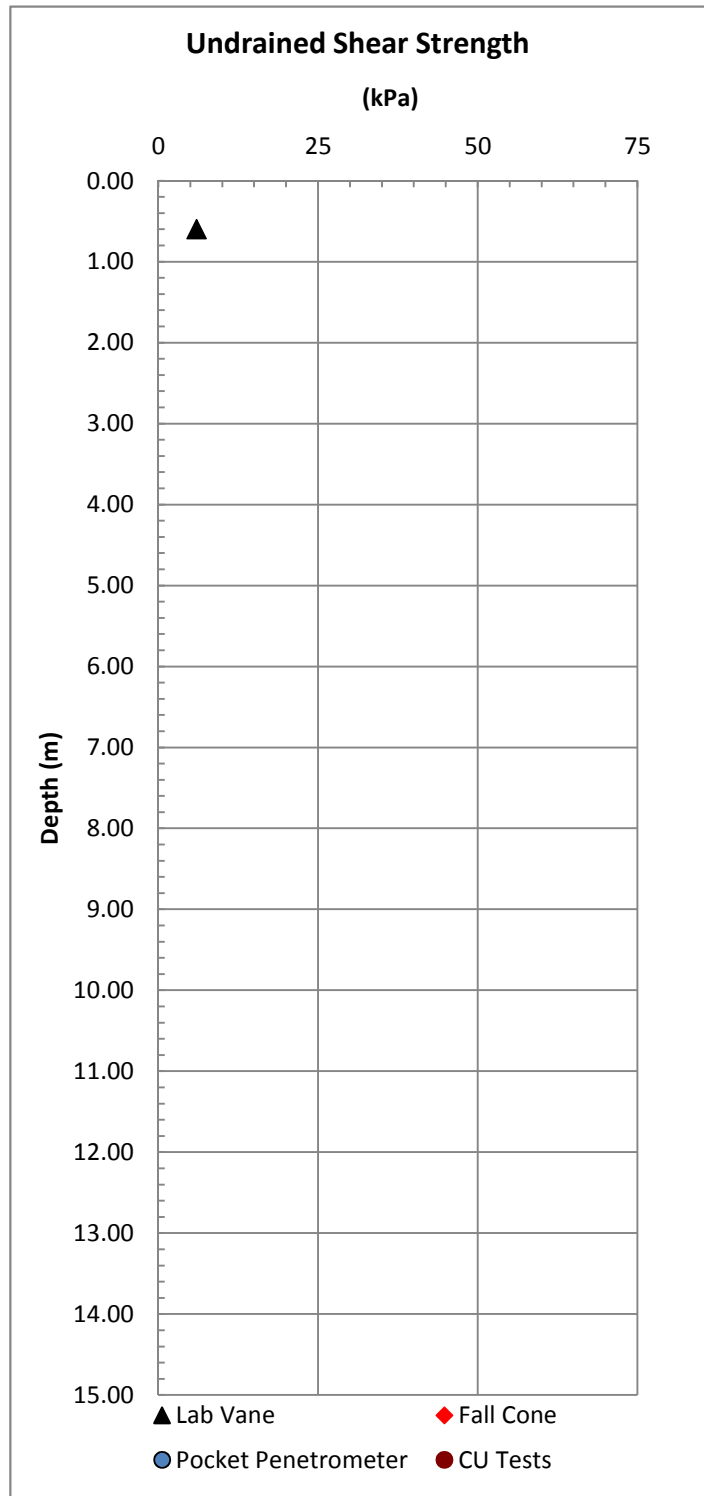
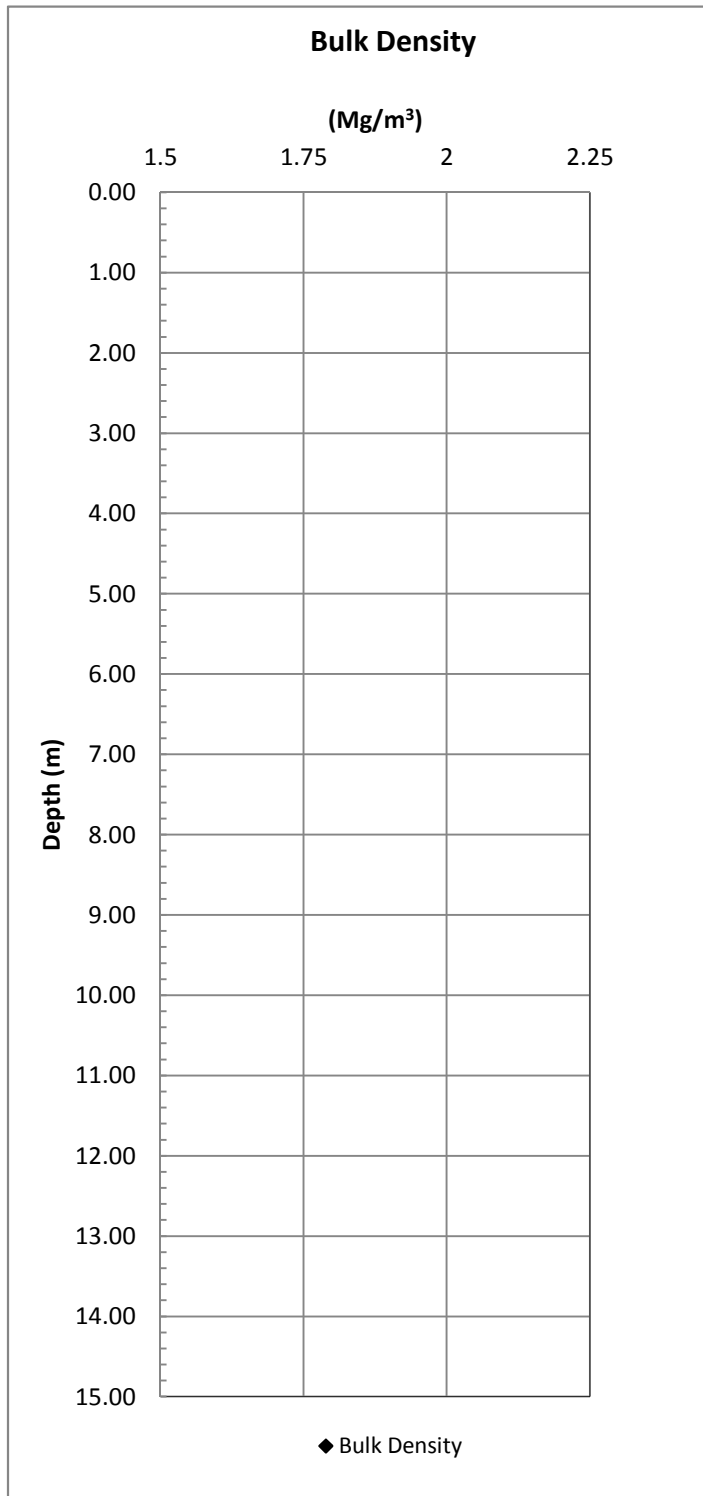


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West Amauligak BH-2

Figure C.3

10033 Beaufort Data

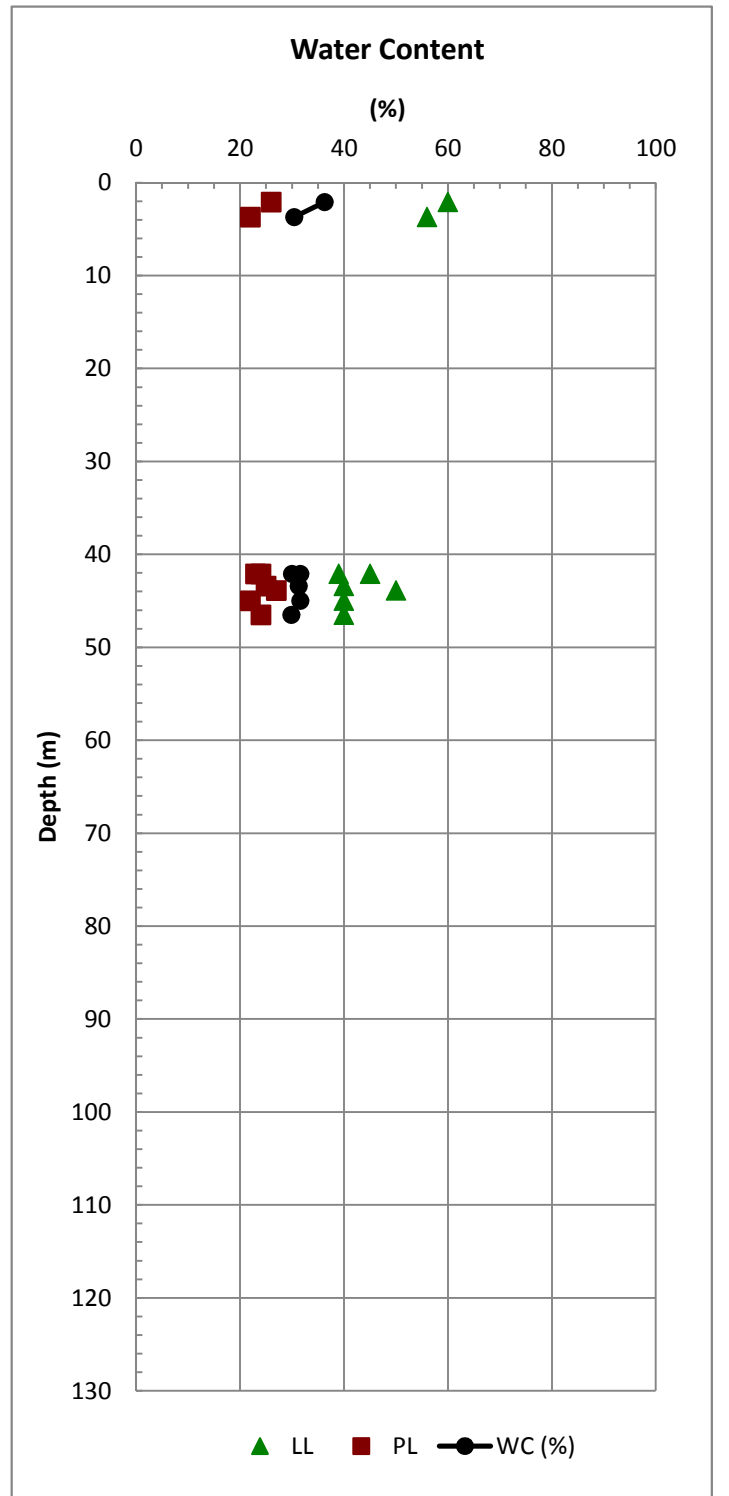
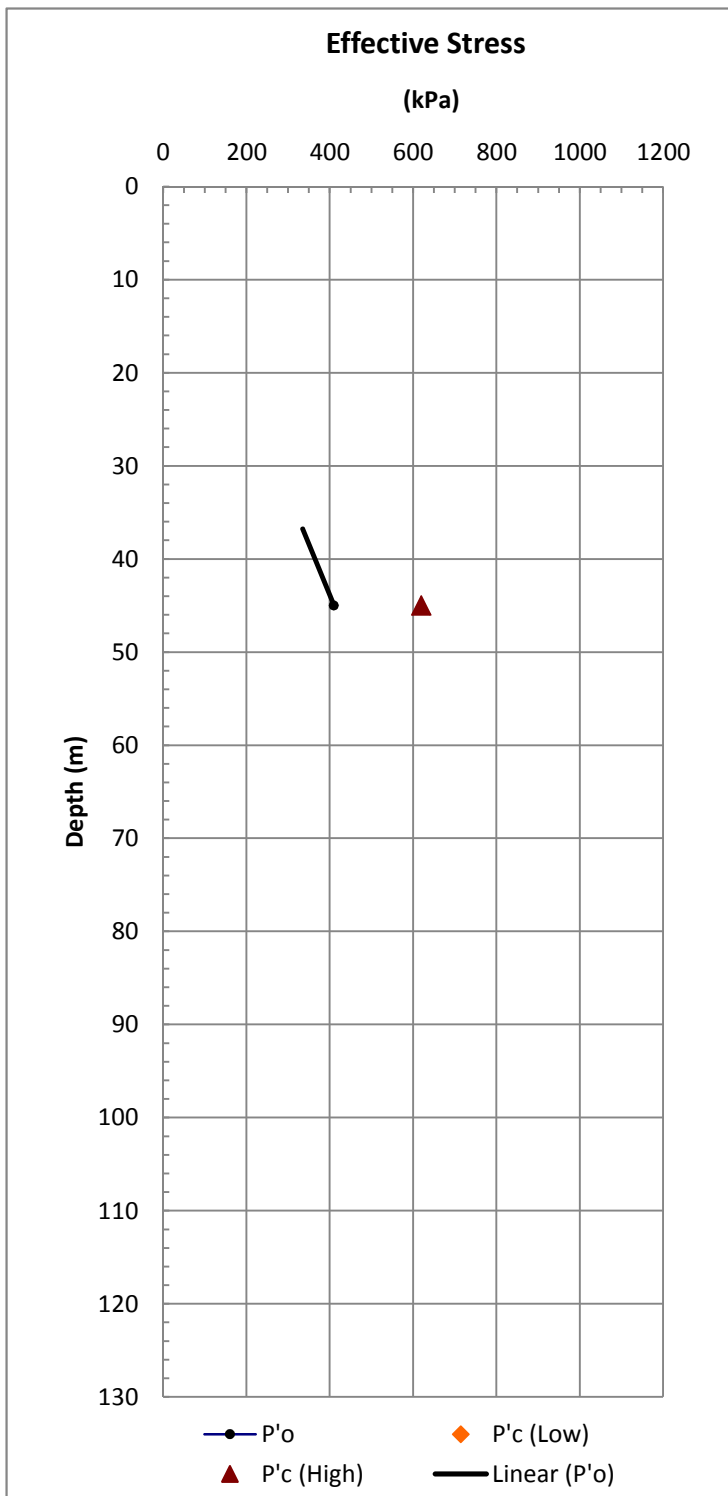
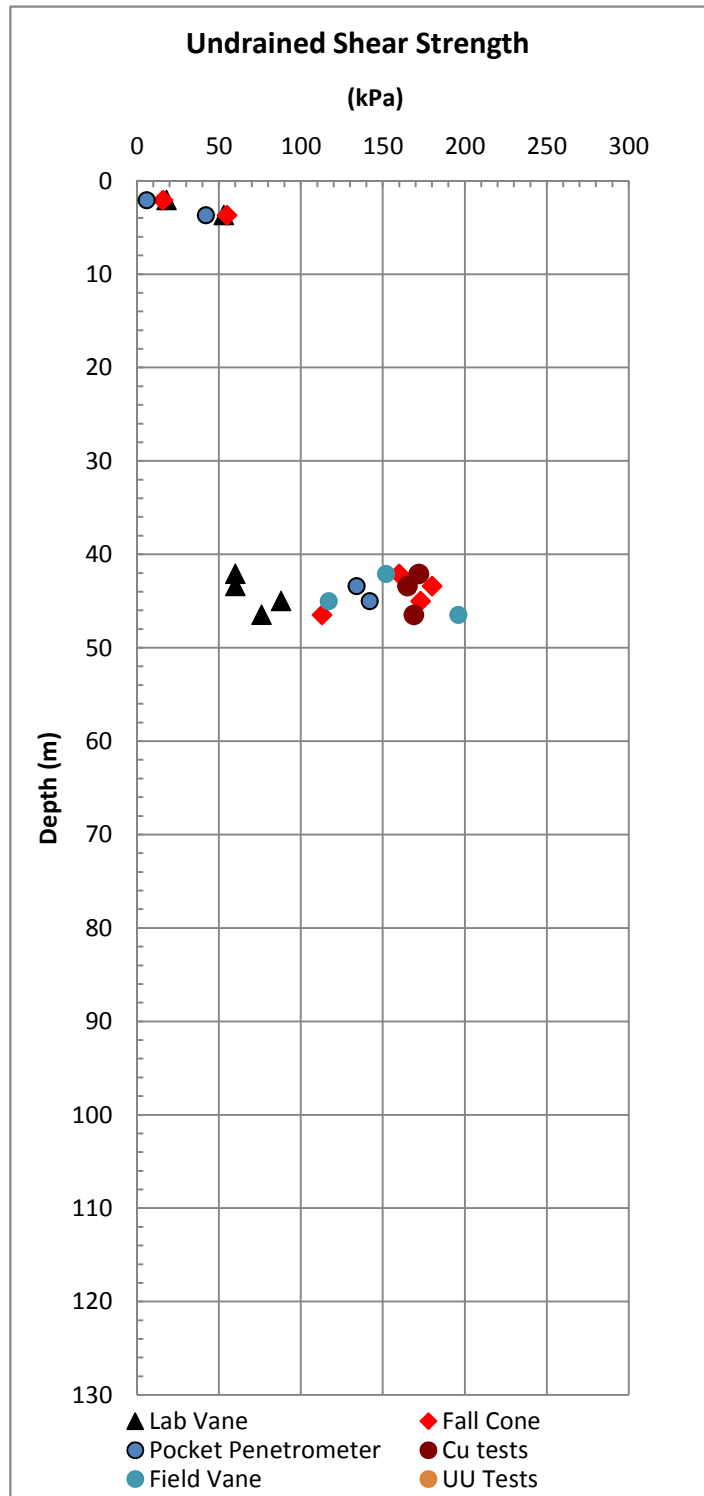
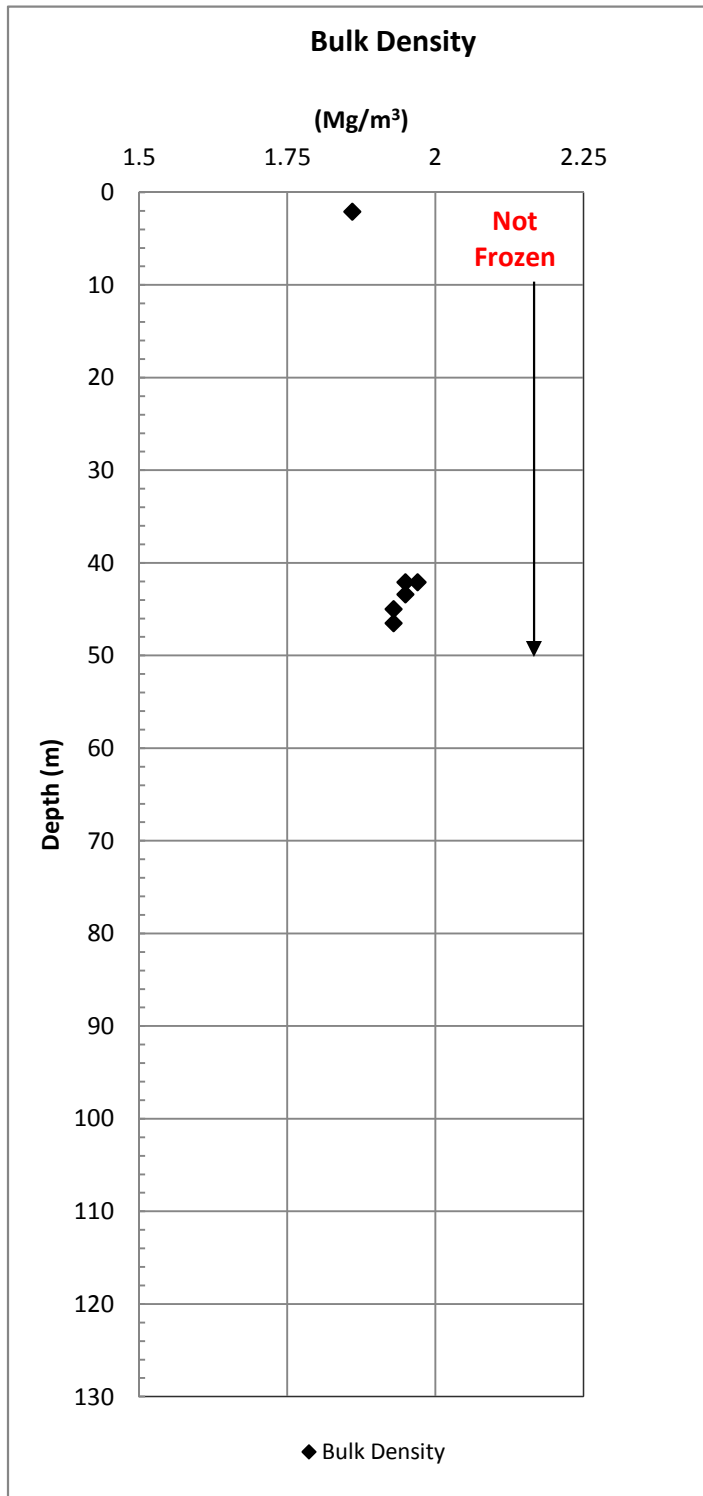


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West Amauligak BH-2

Figure C.3

10033 Beaufort Data

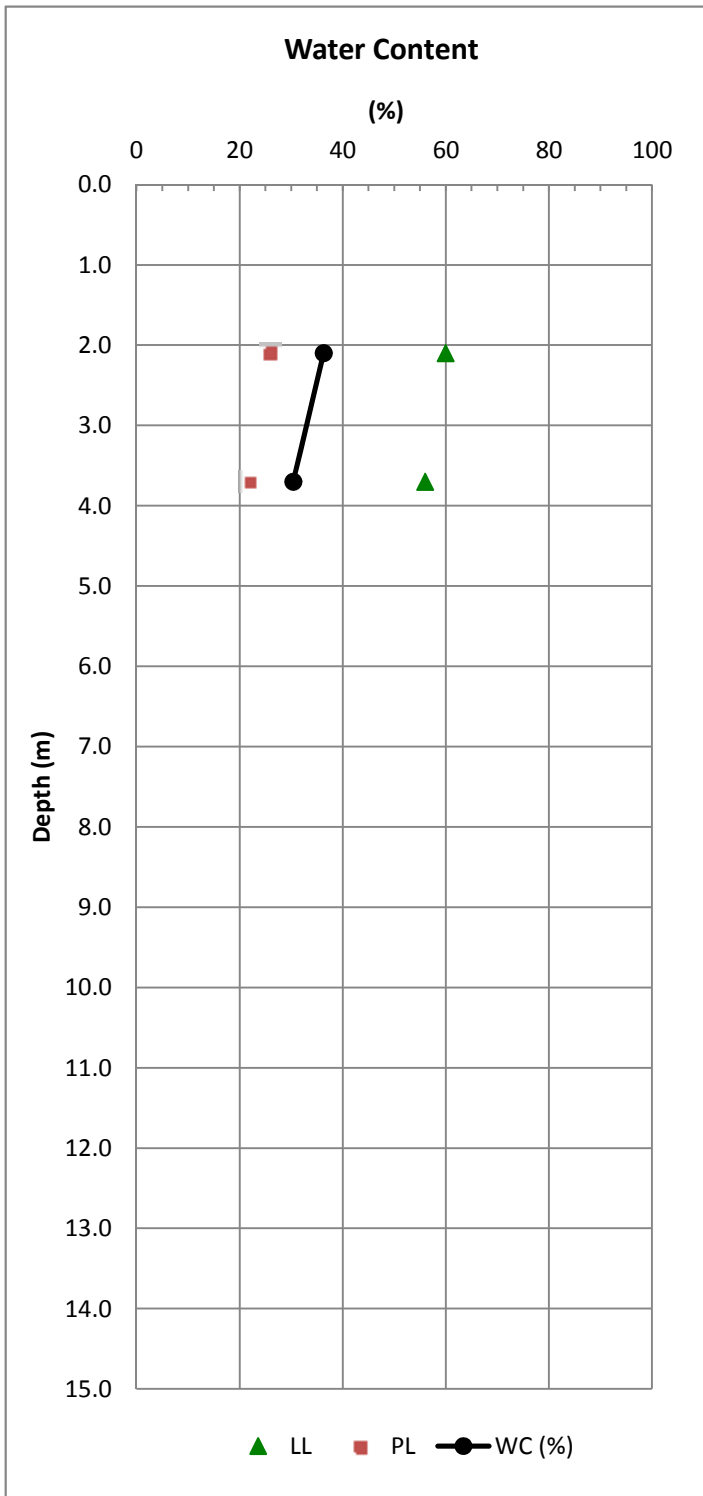
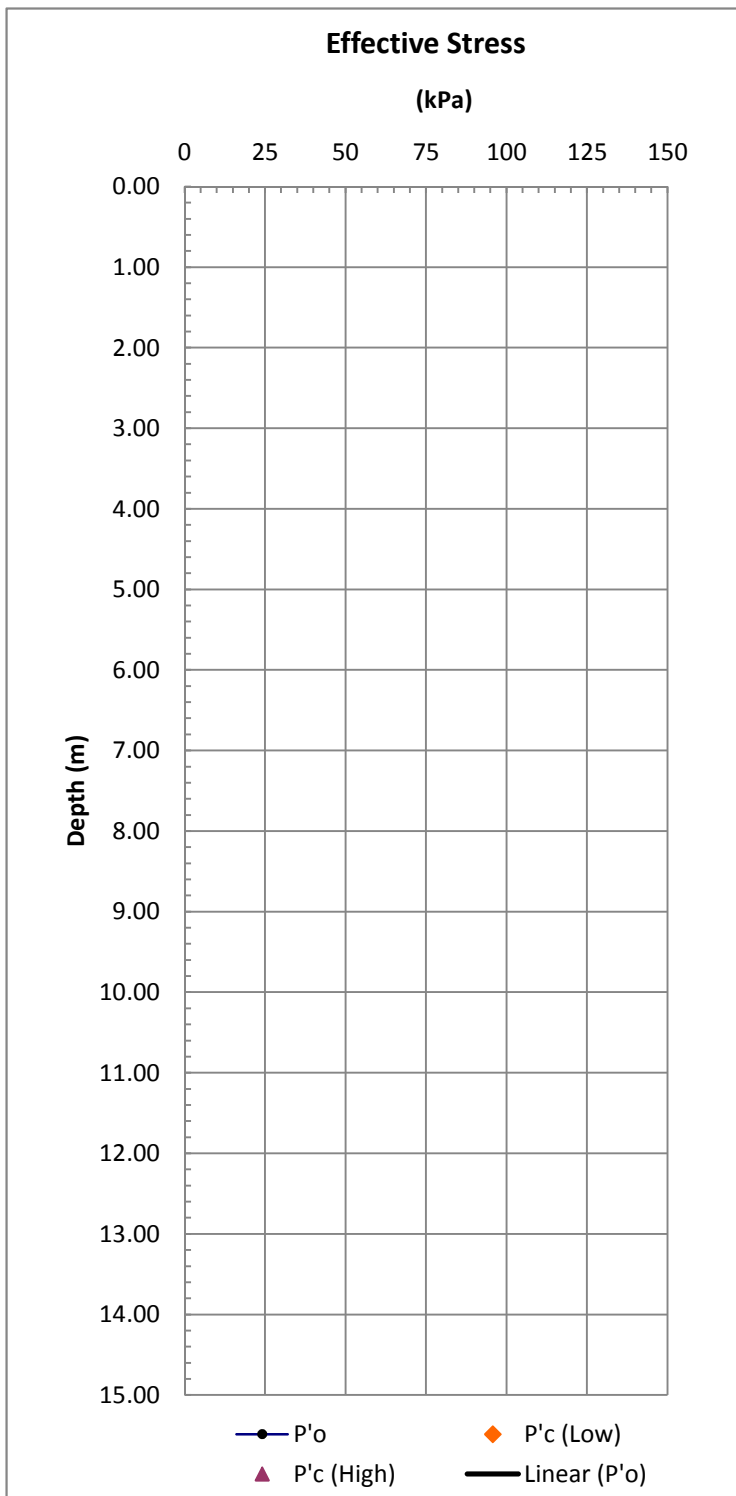
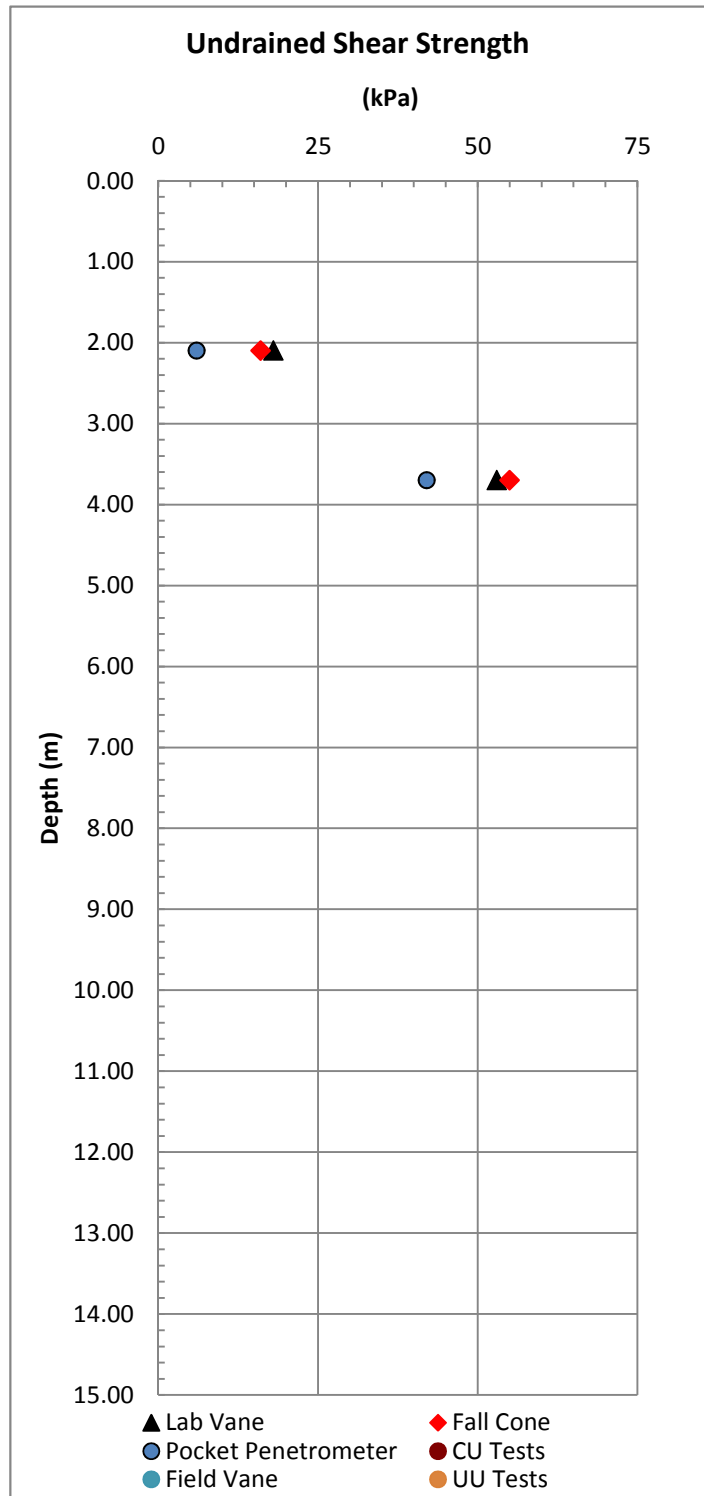
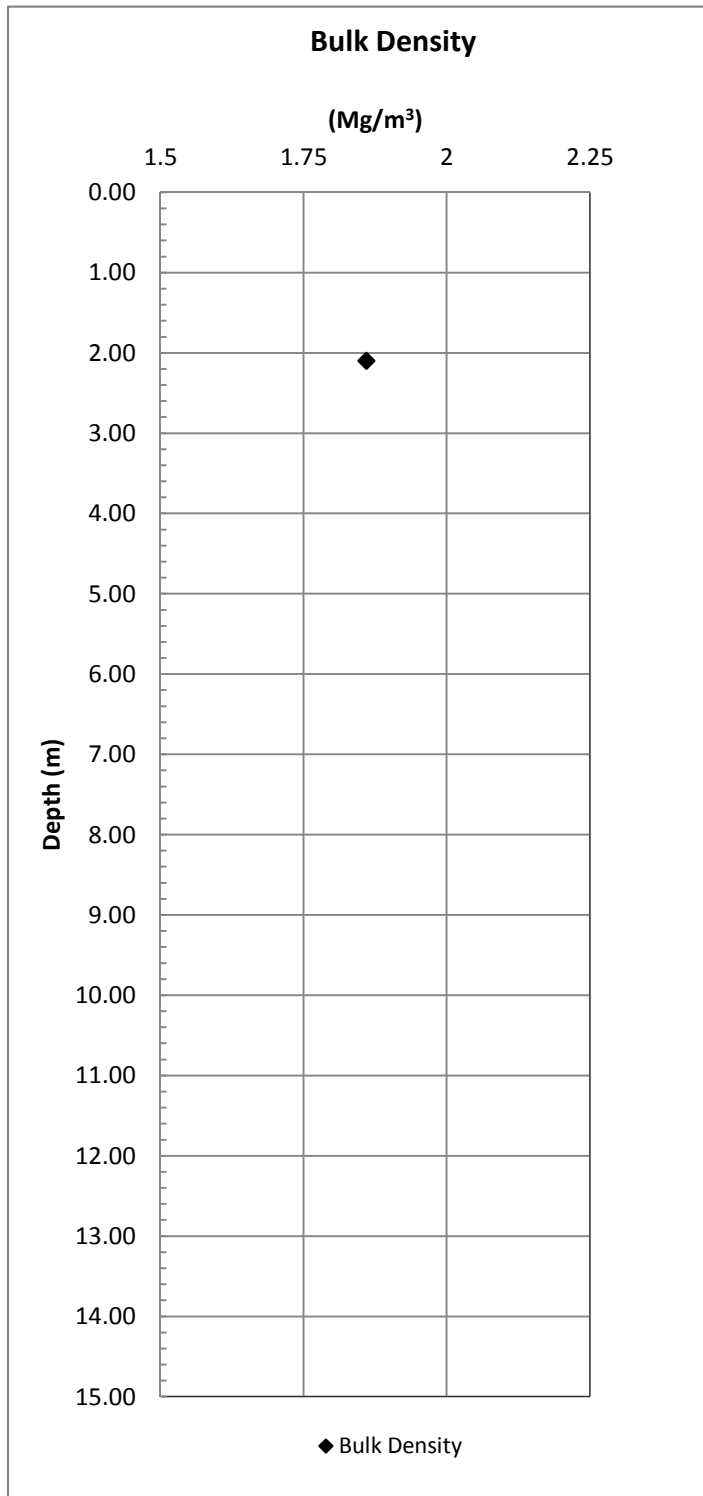


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Figure C.3

10033 Beaufort Data

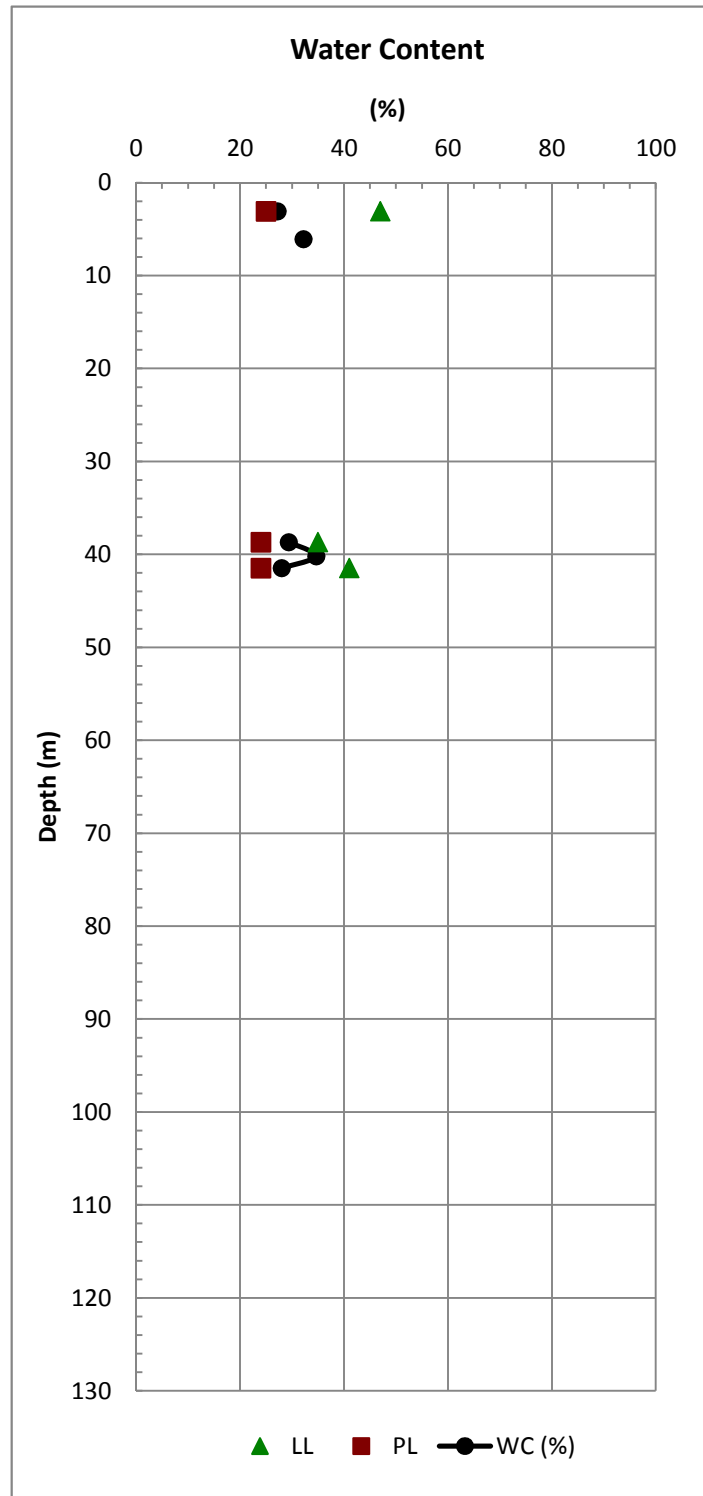
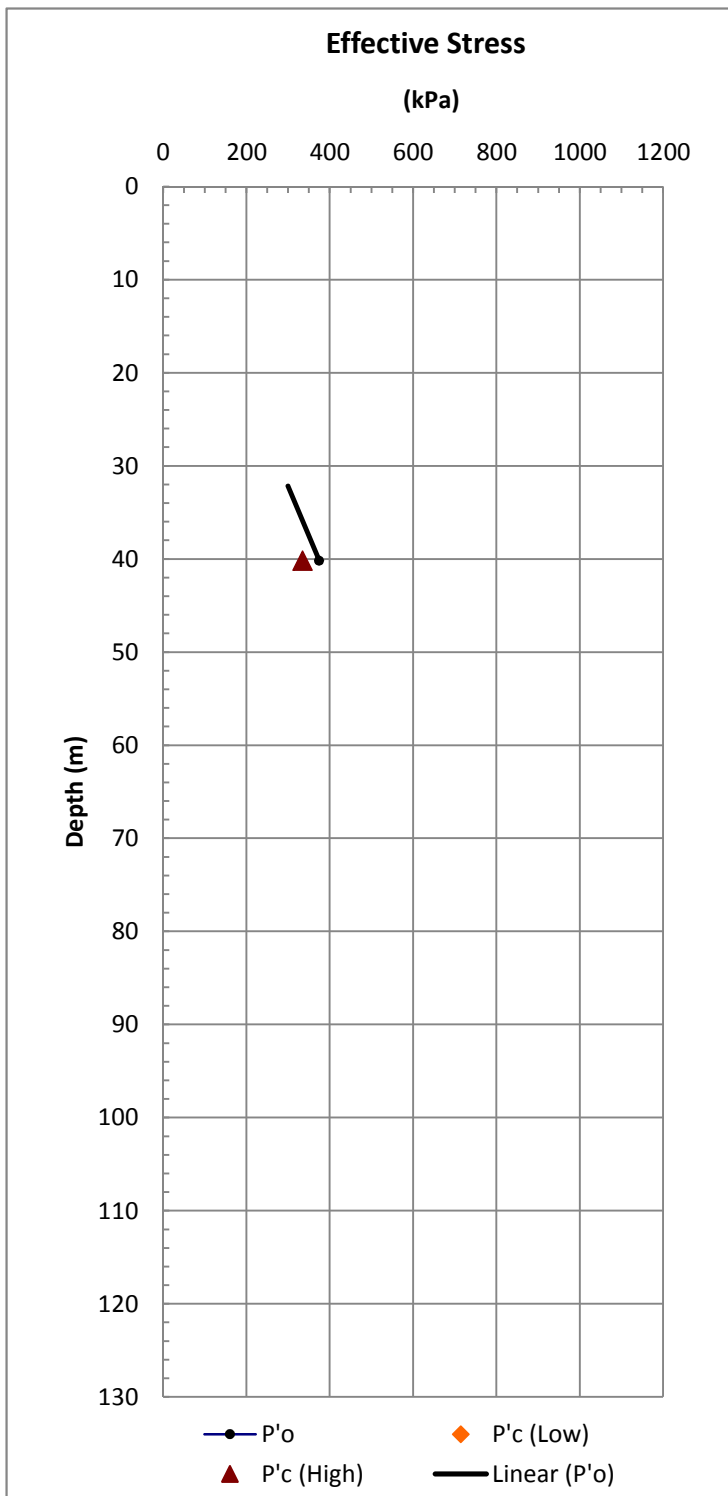
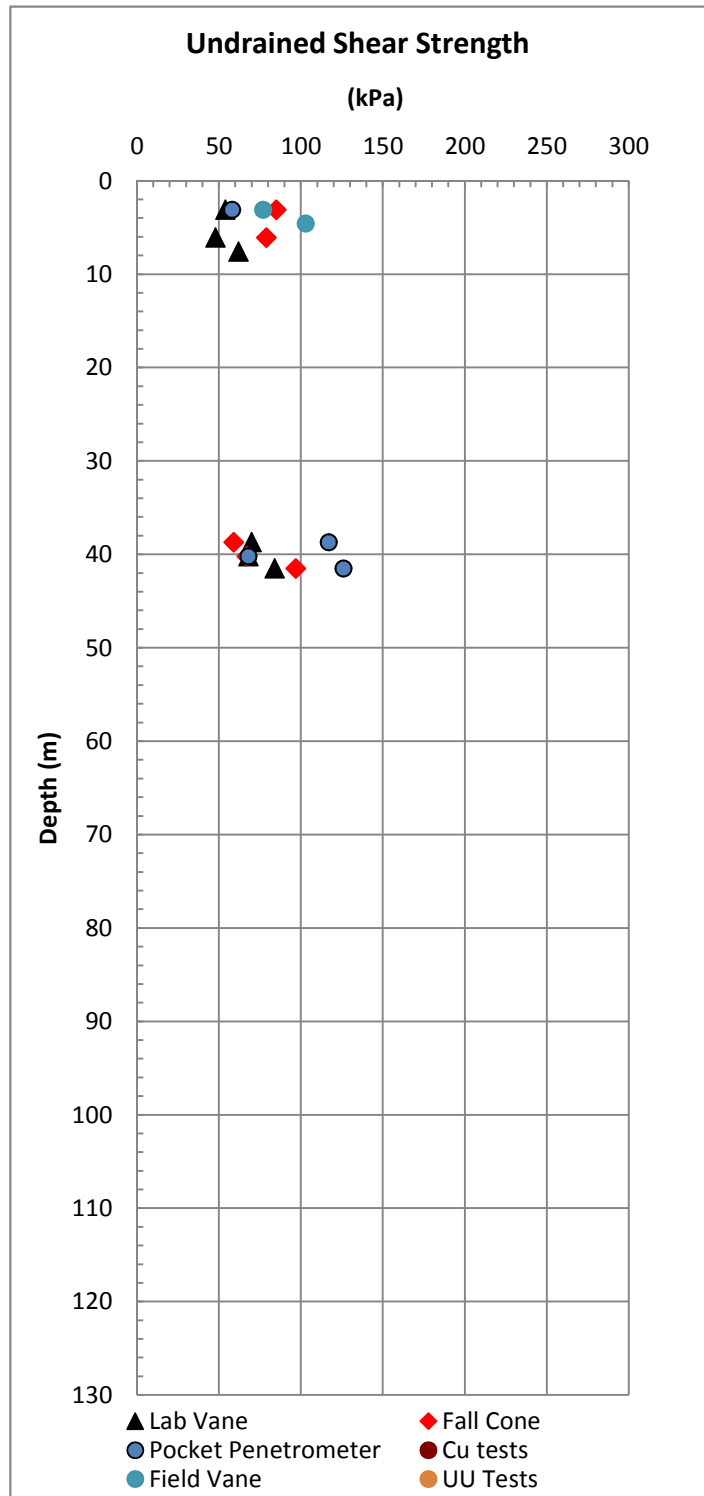
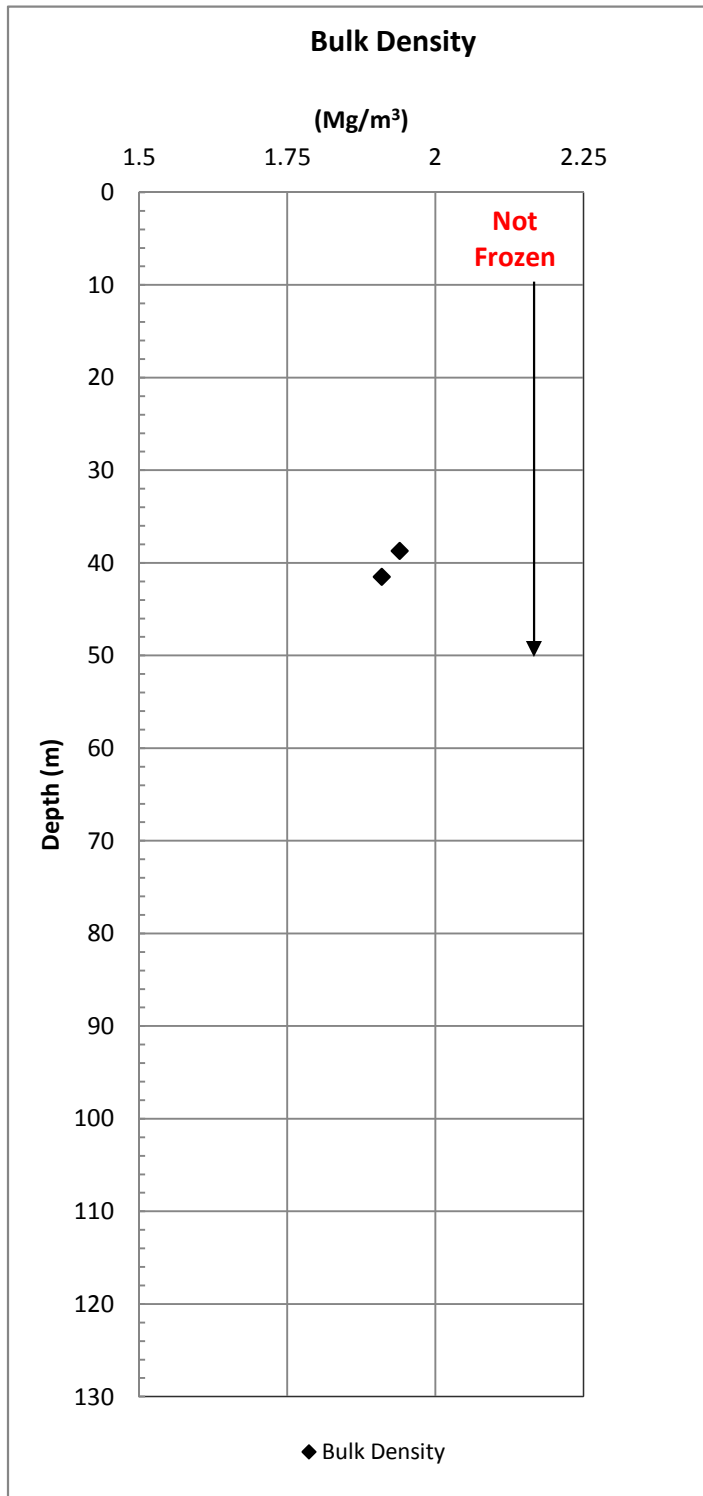


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Figure C.3

10033 Beaufort Data

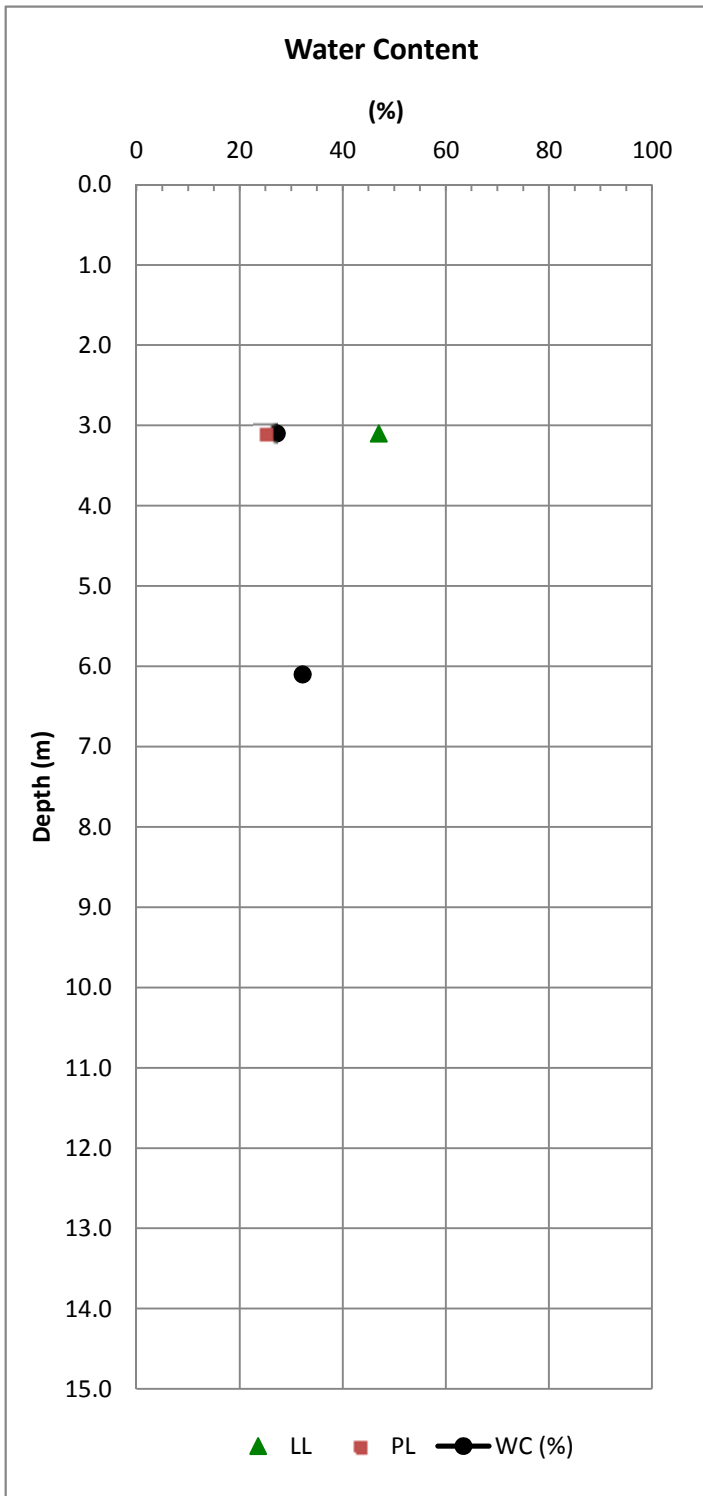
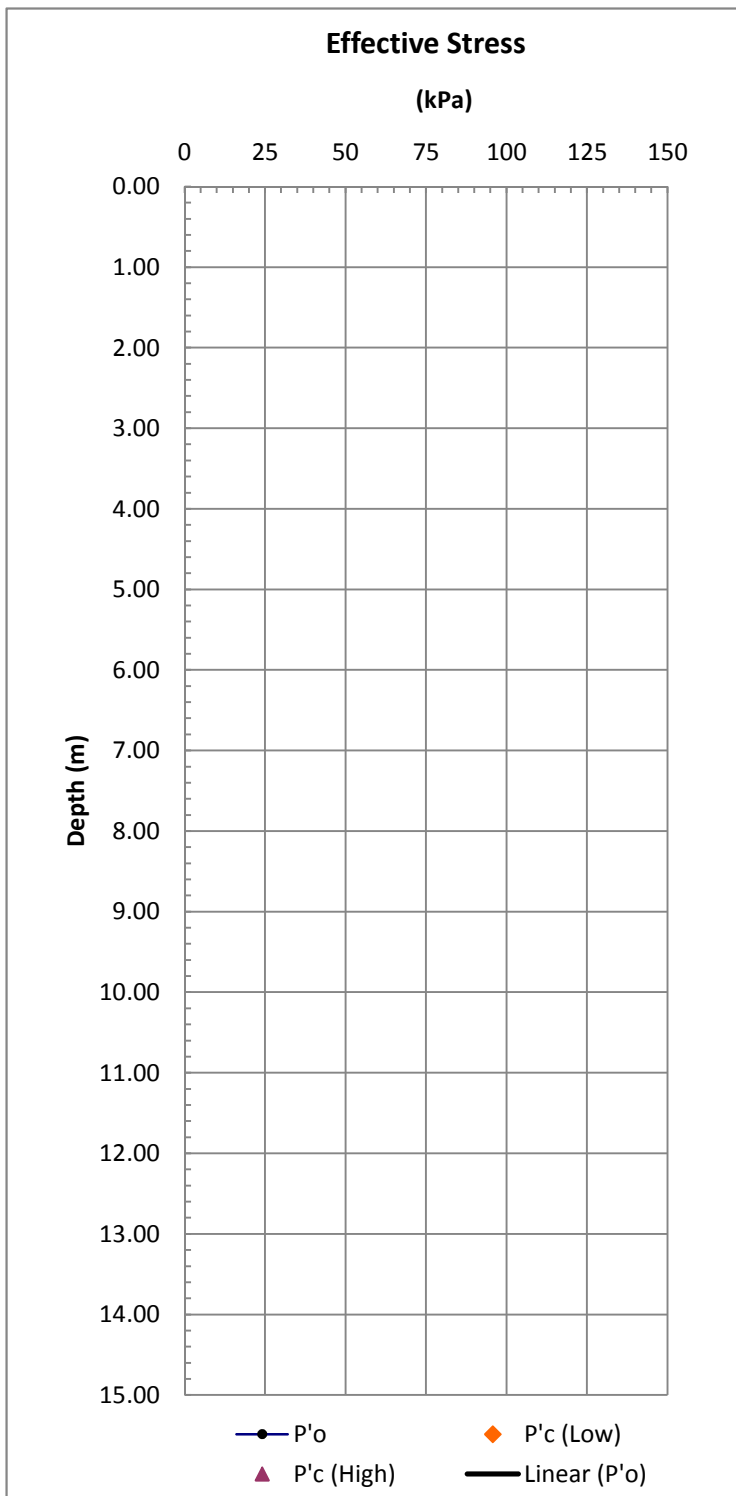
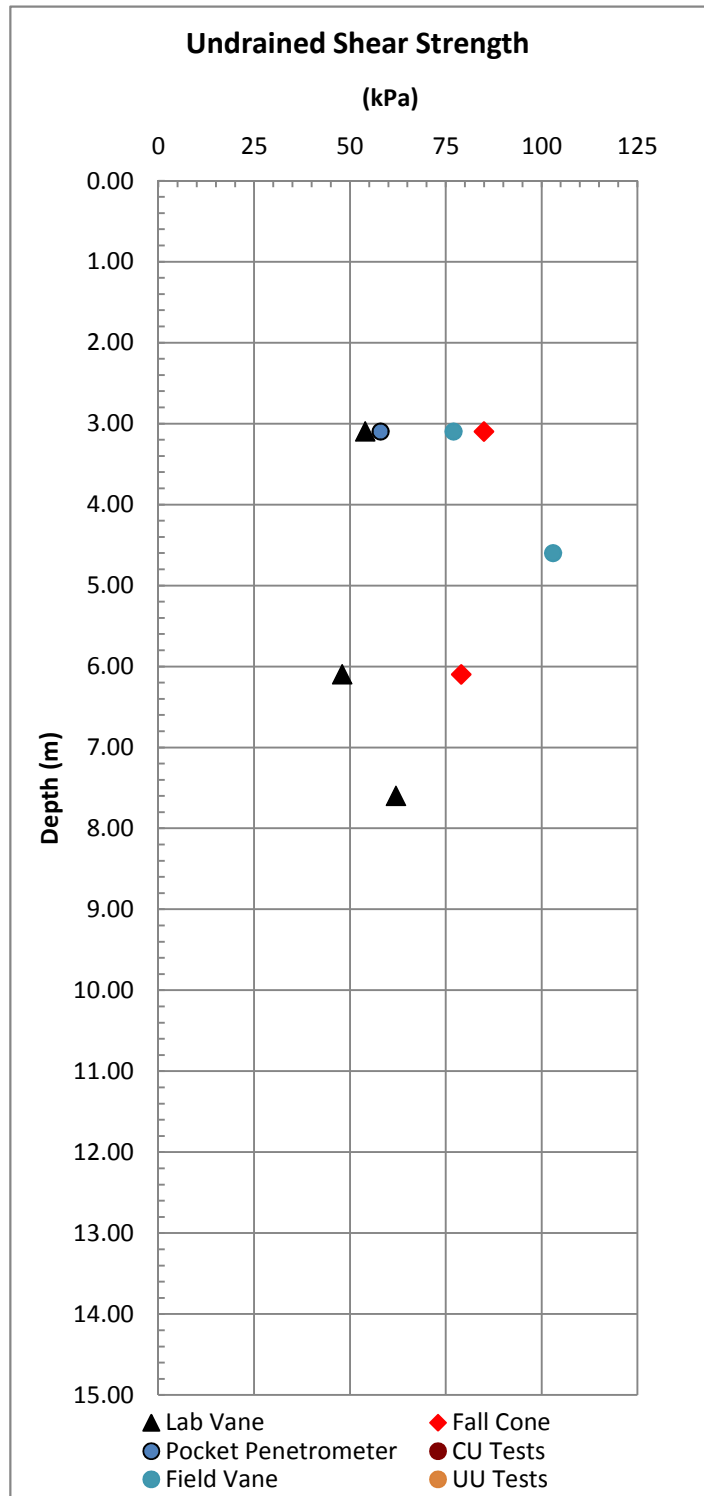
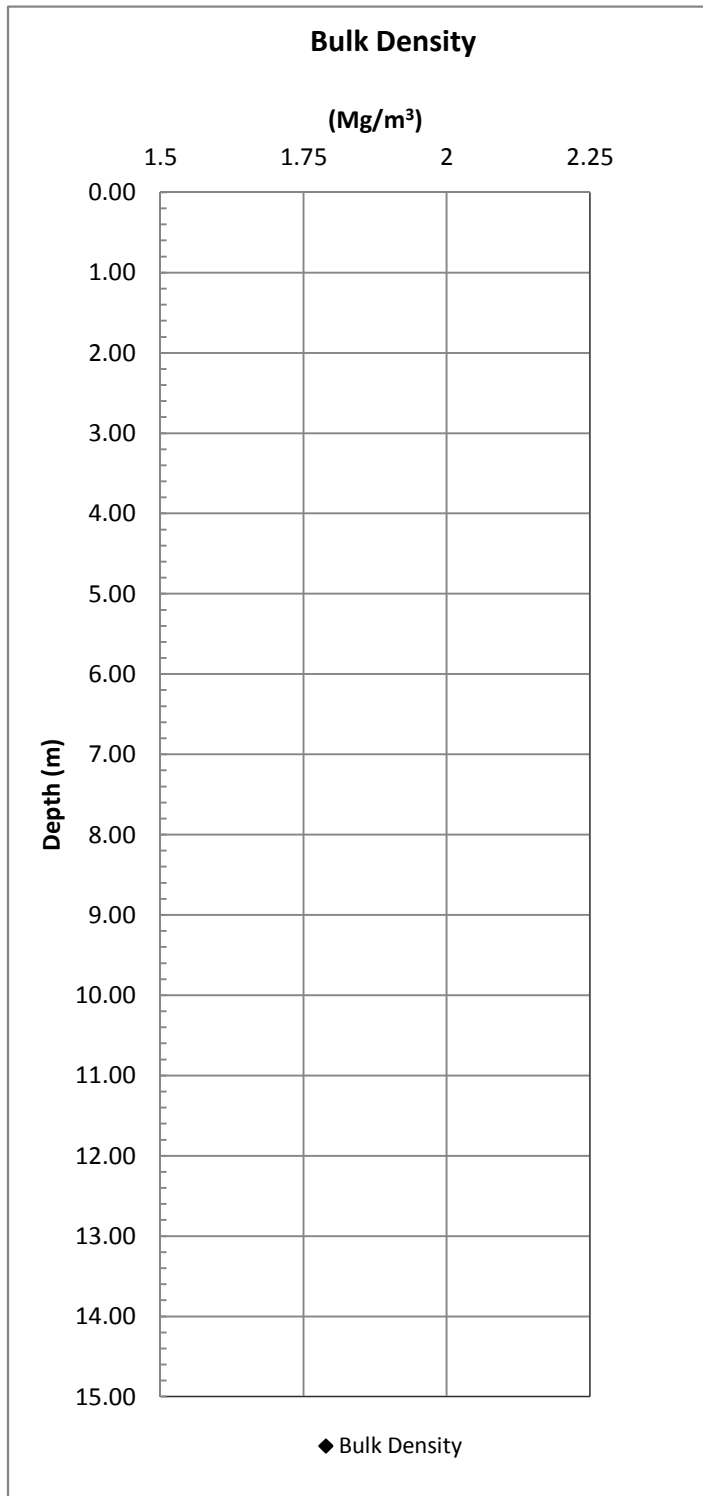


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Figure C.3

10033 Beaufort Data

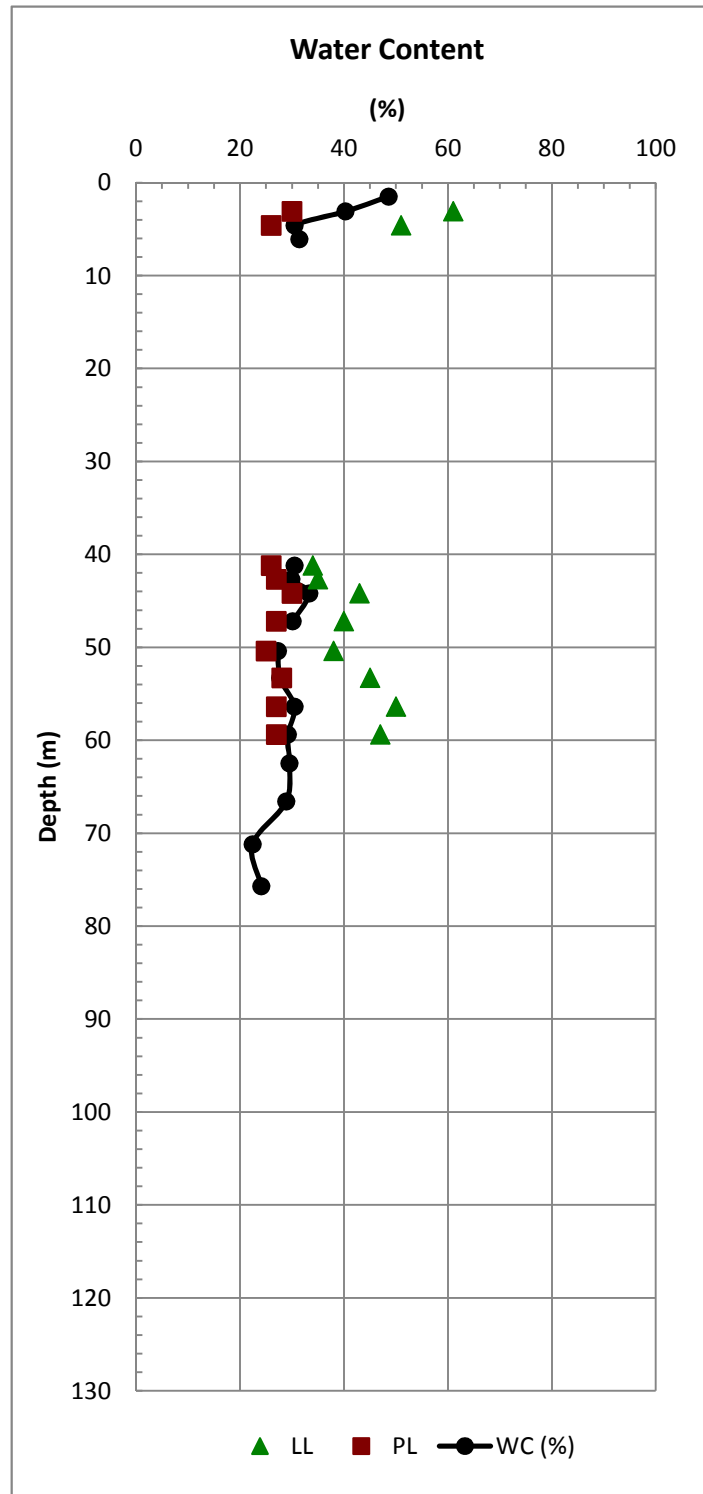
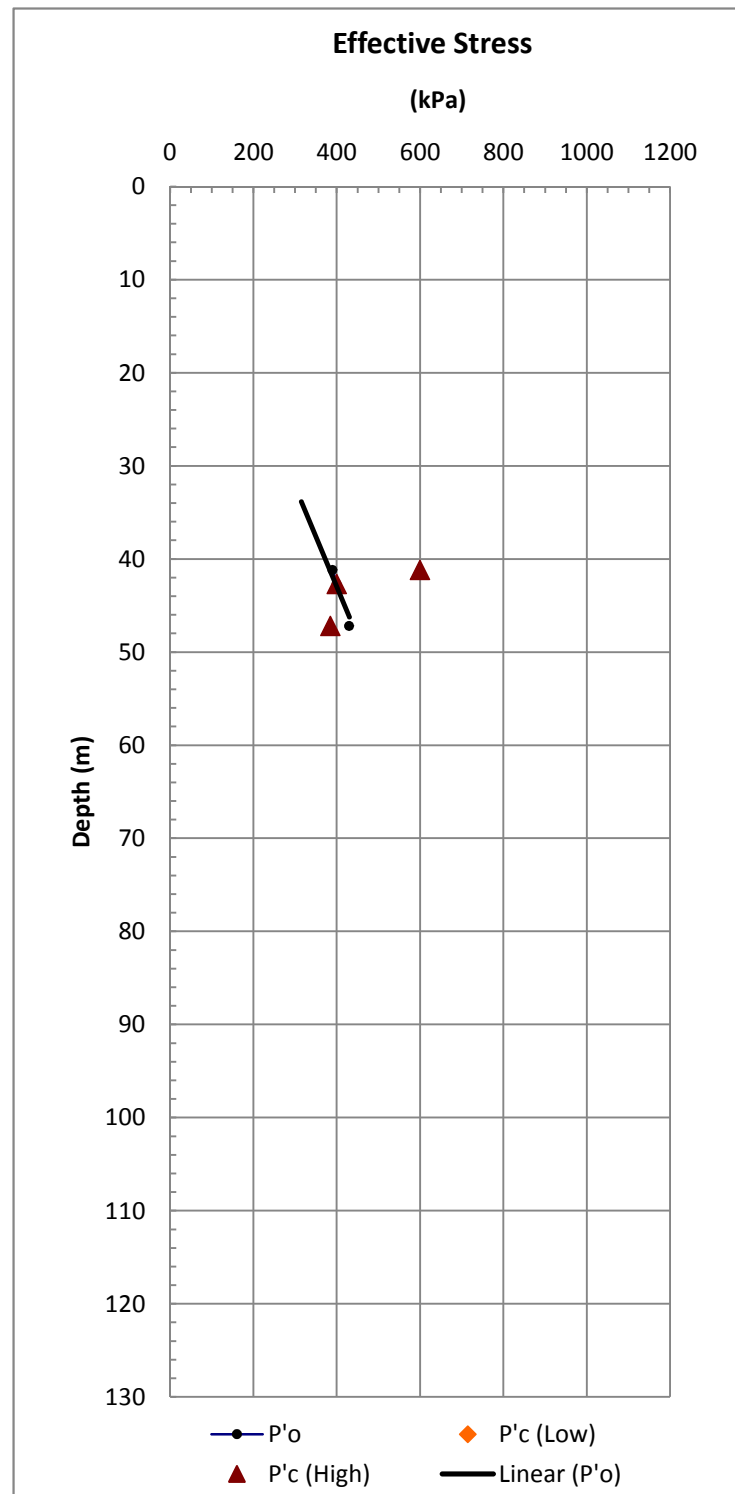
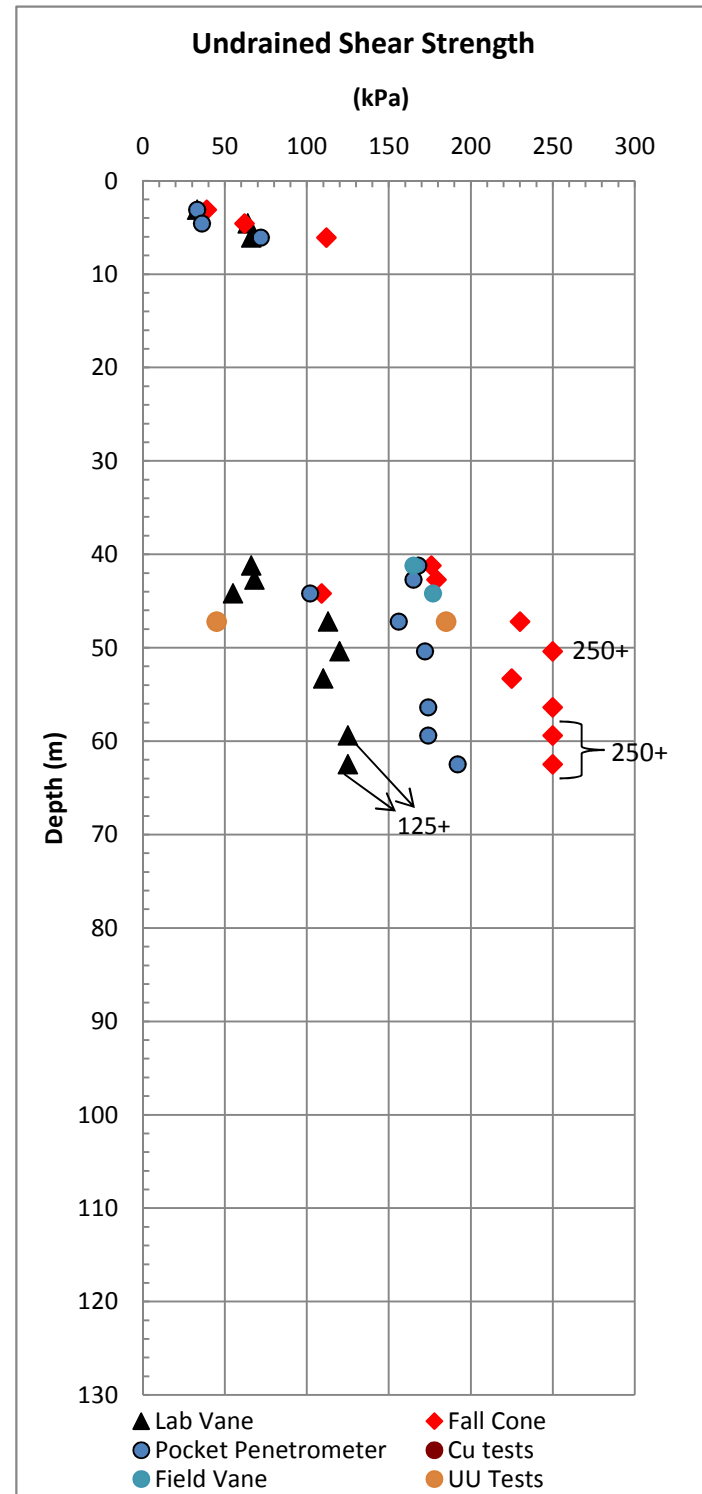
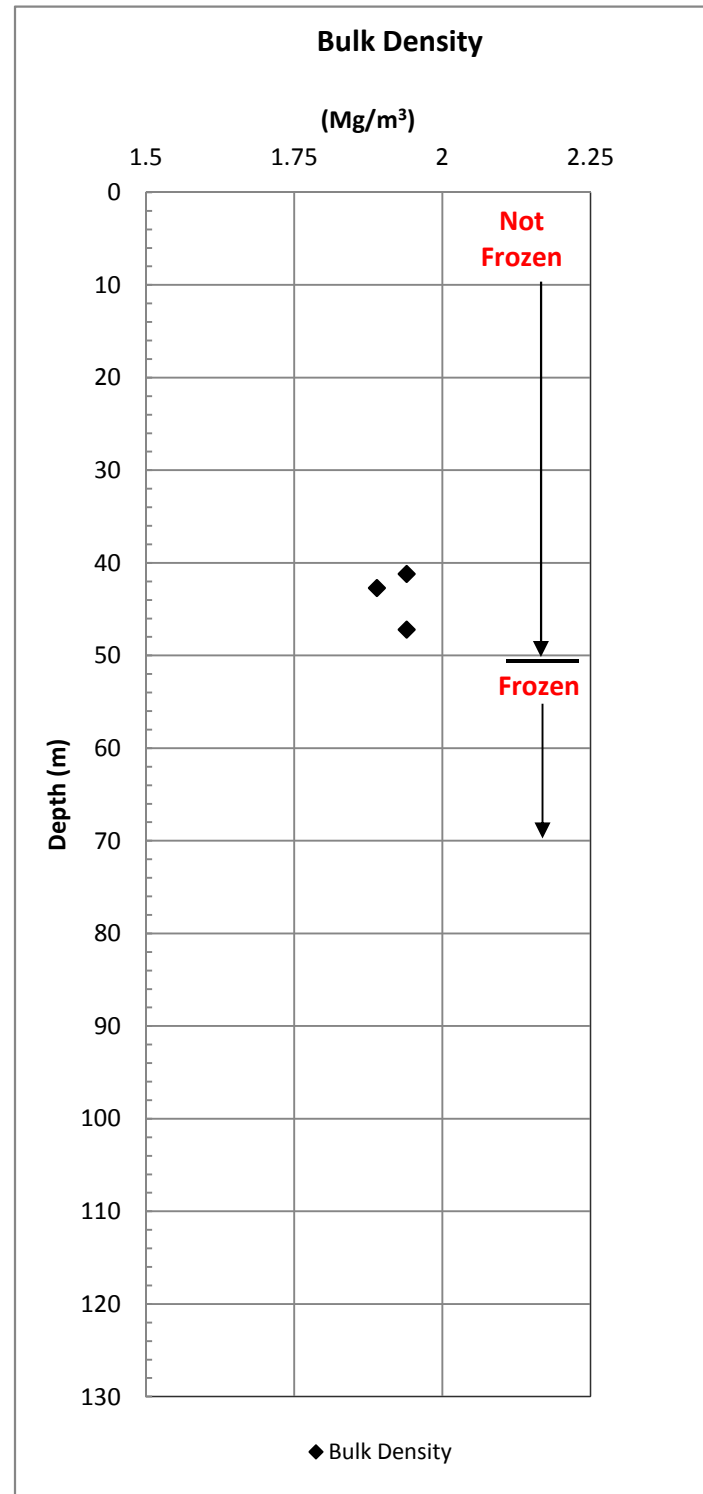


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Figure C.3

10033 Beaufort Data

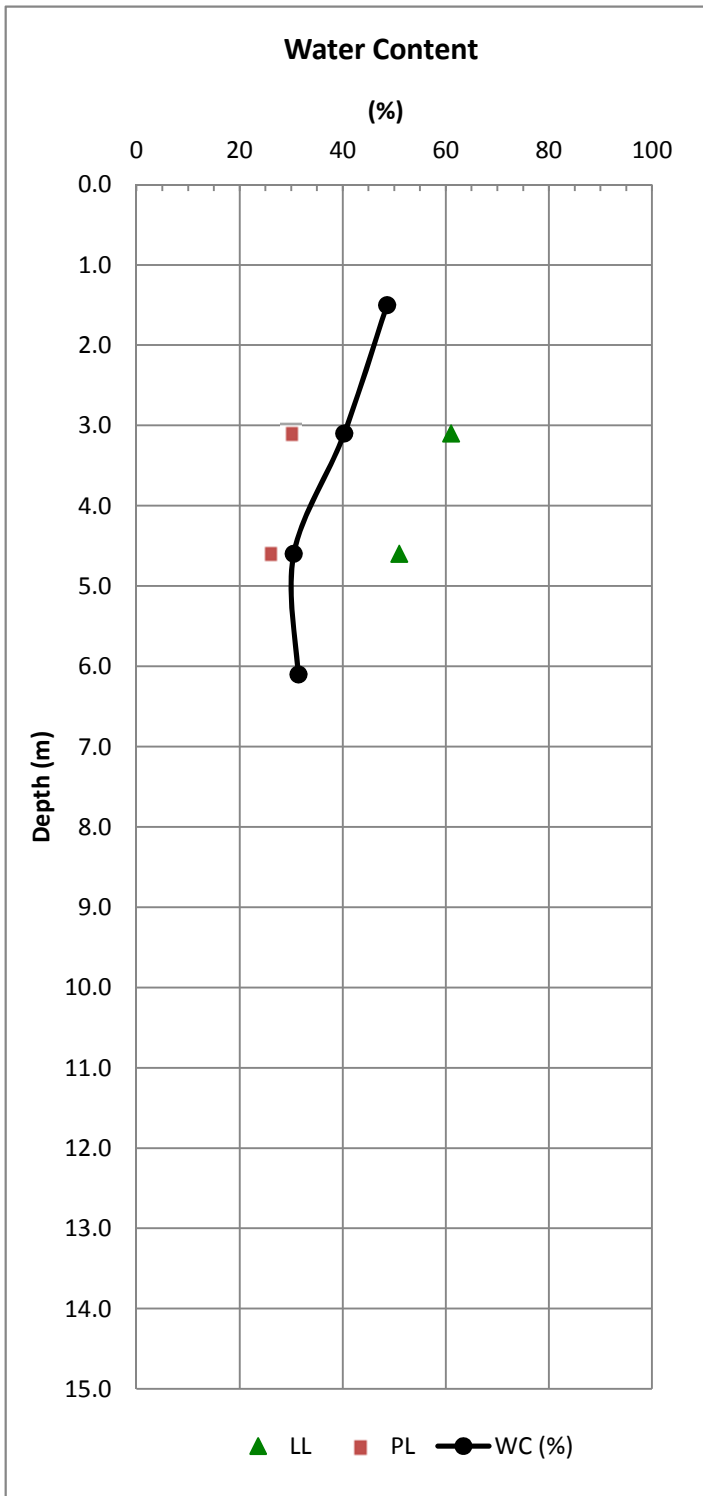
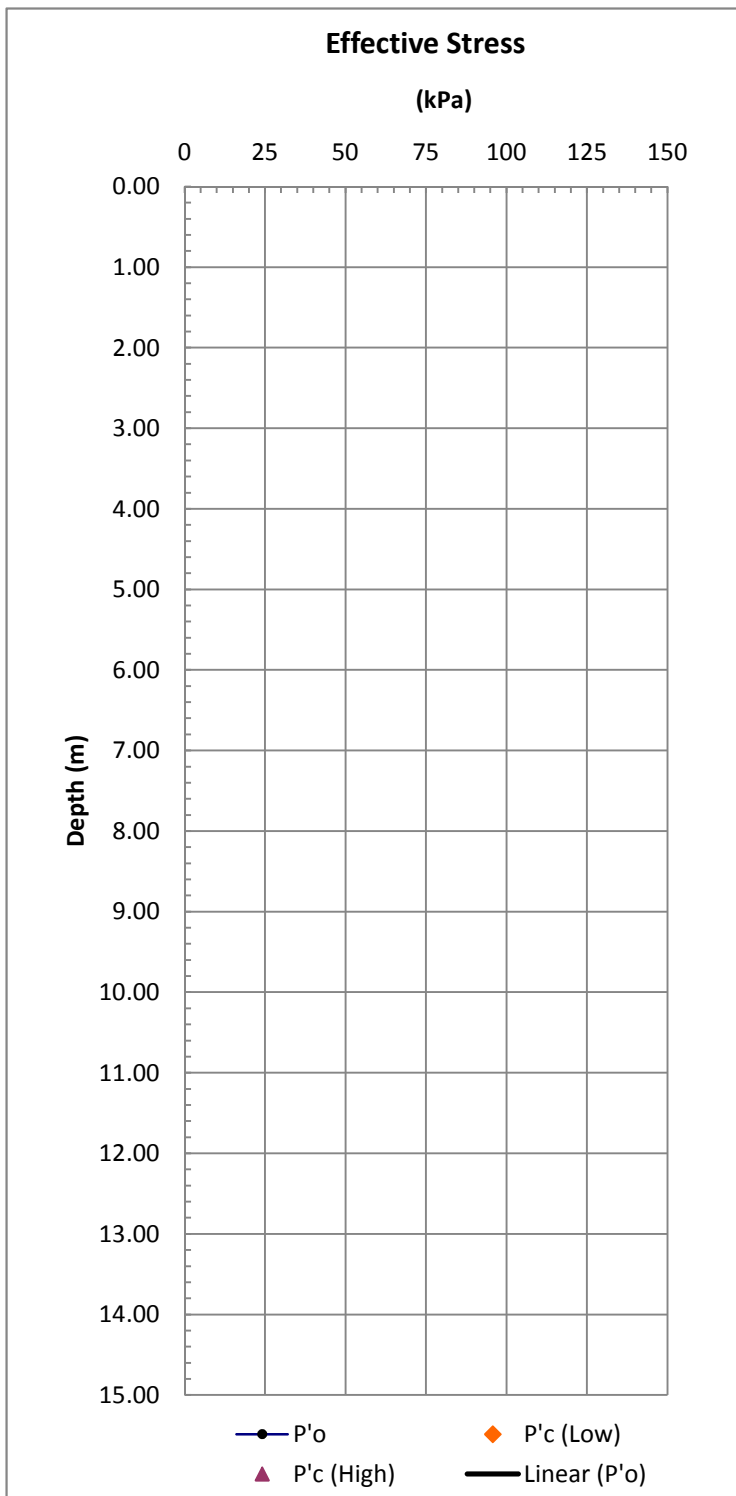
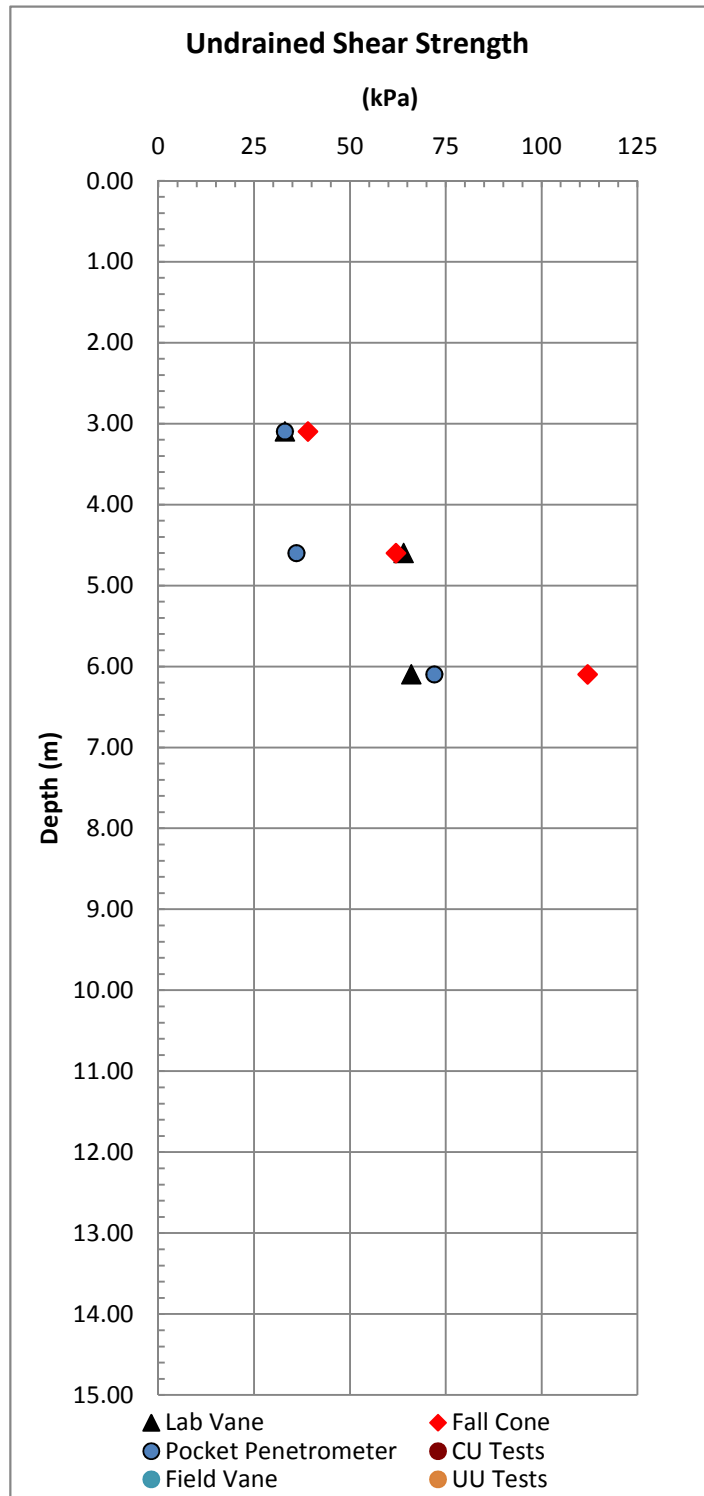
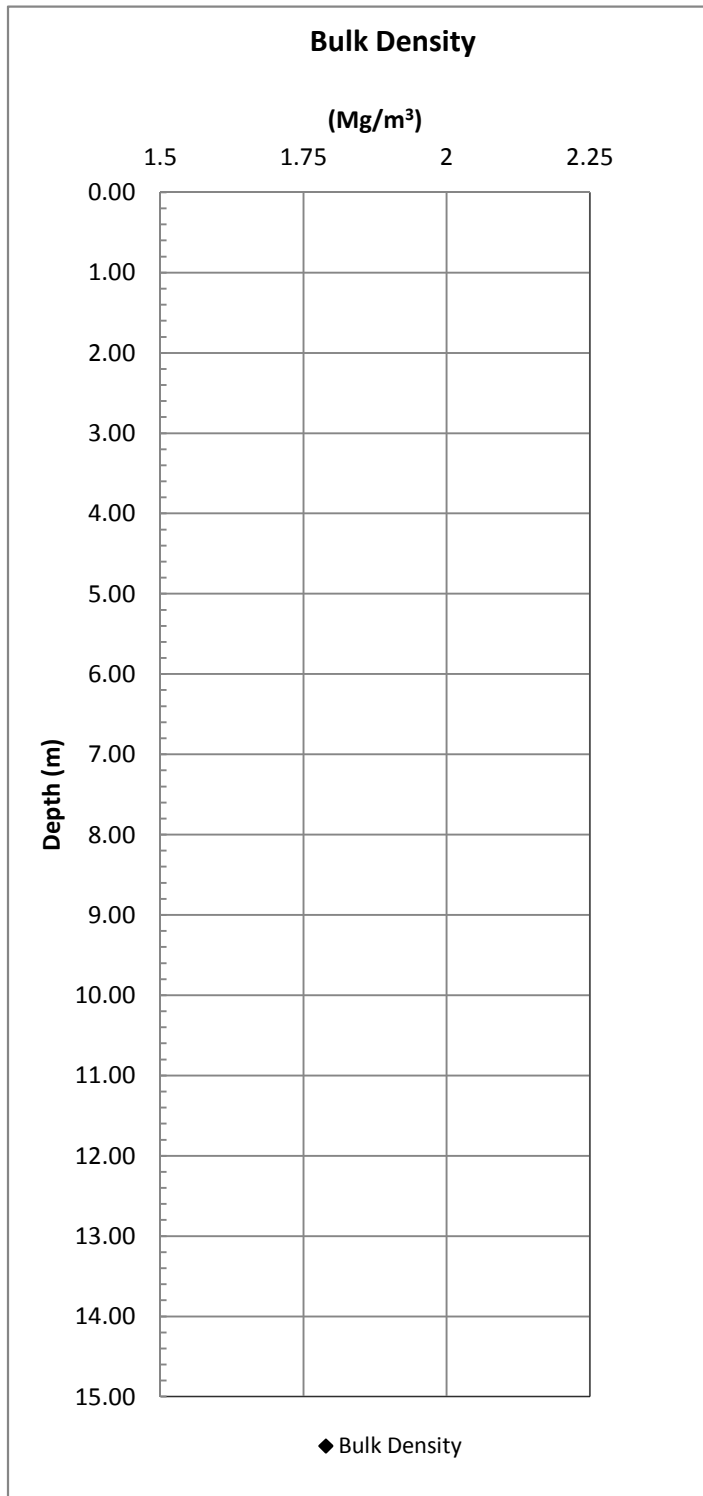


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West Amuligak BH-5

Figure C.3

10033 Beaufort Data

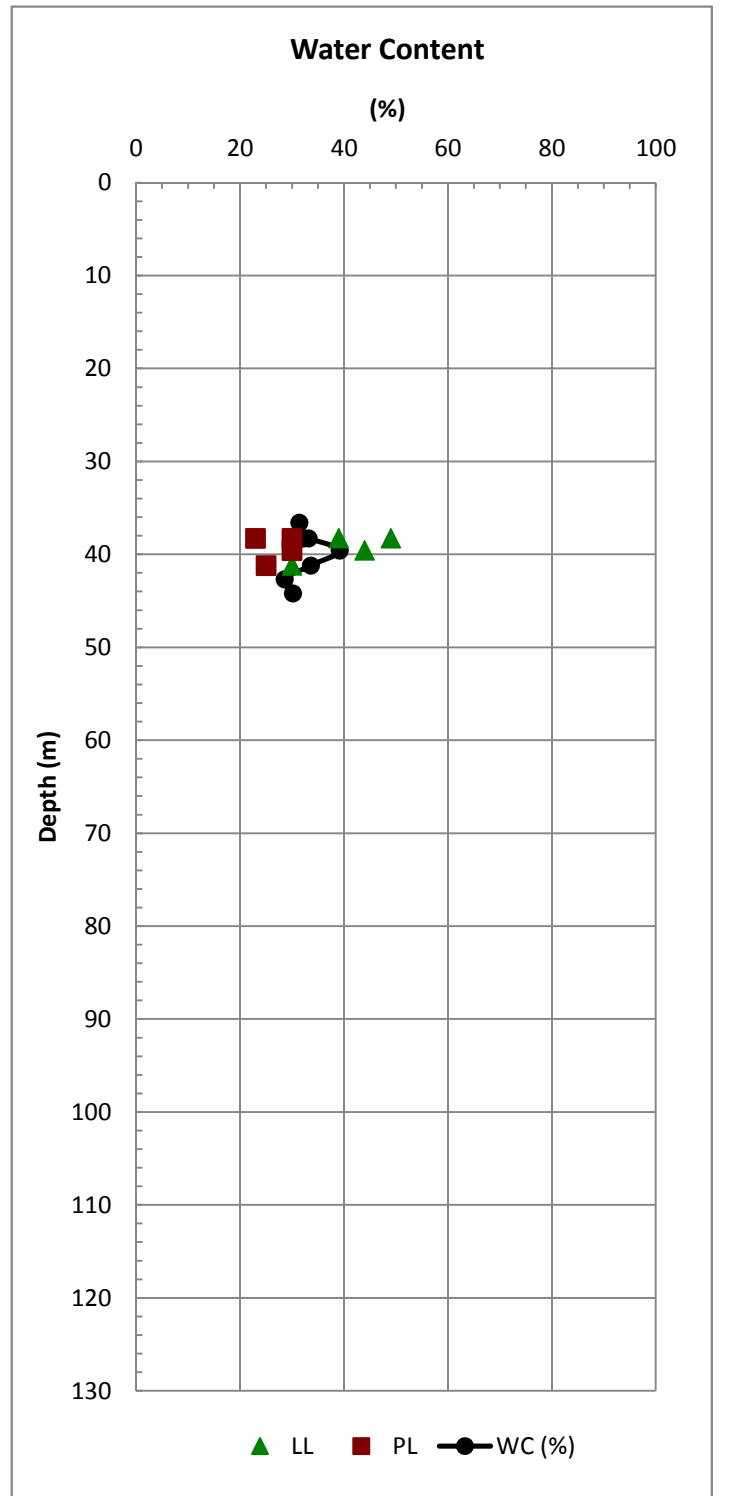
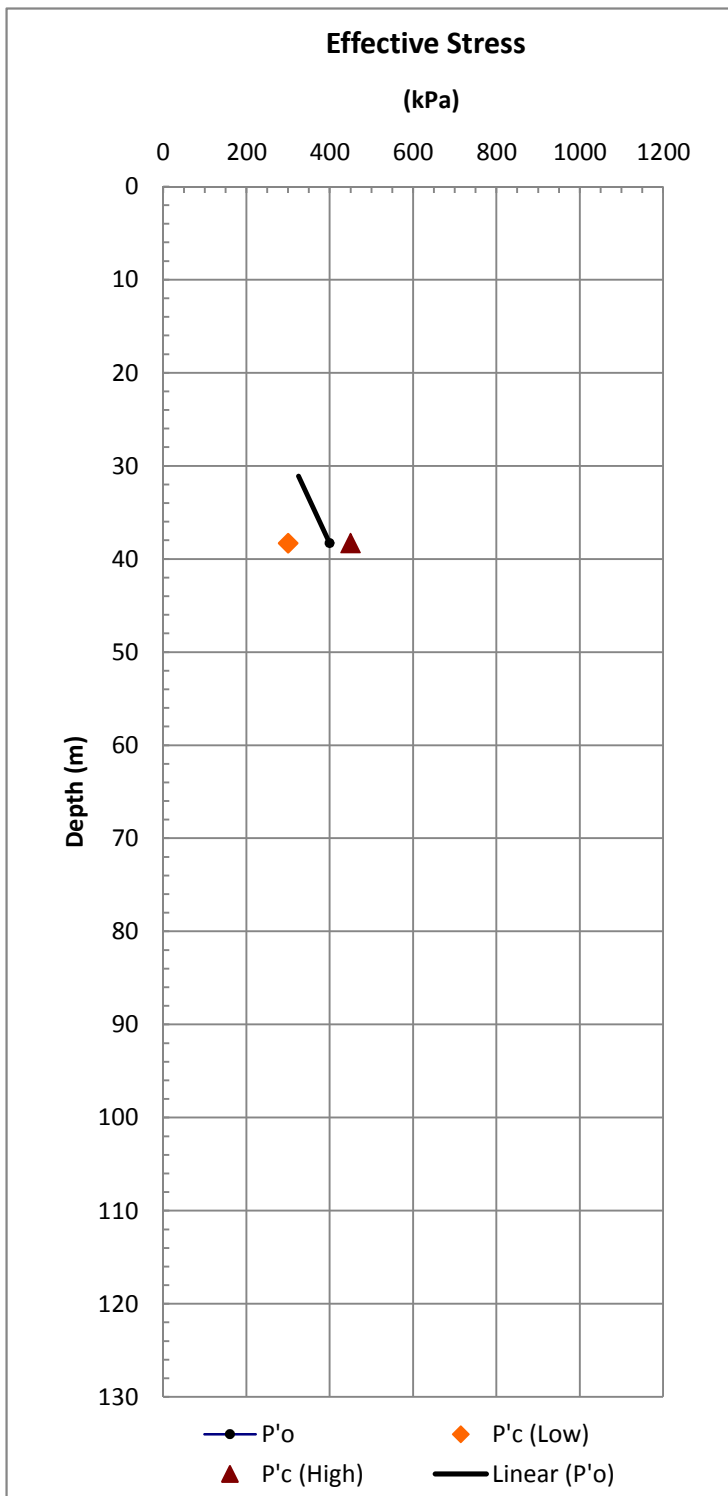
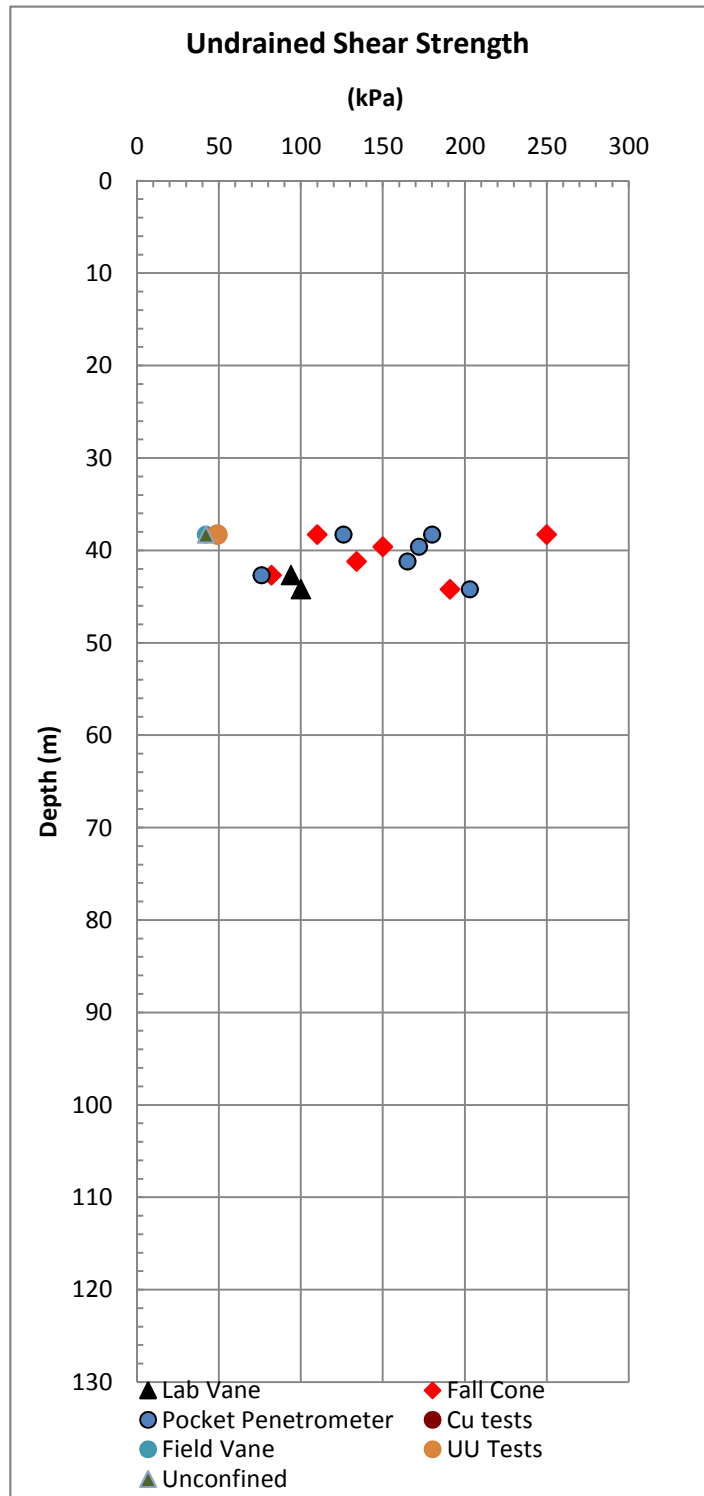
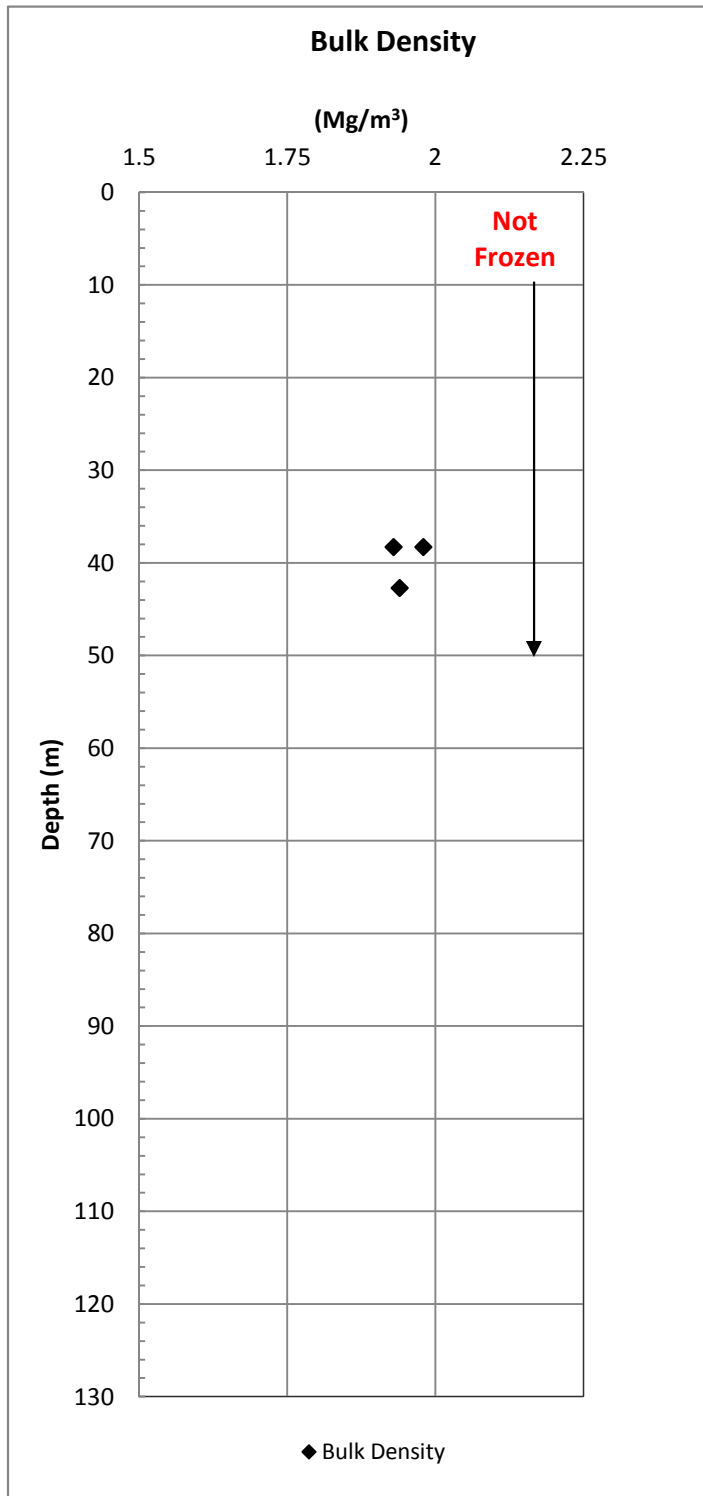


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Figure C.3

10033 Beaufort Data

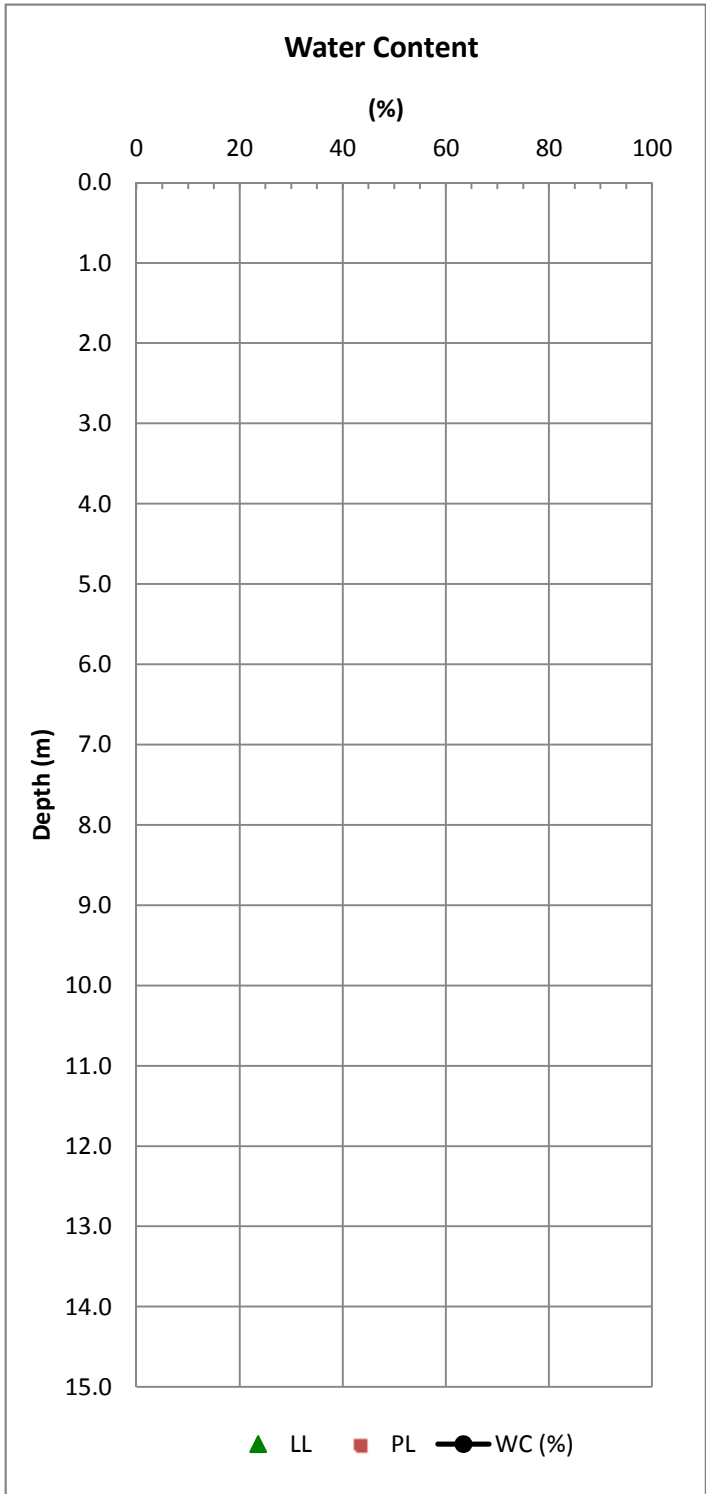
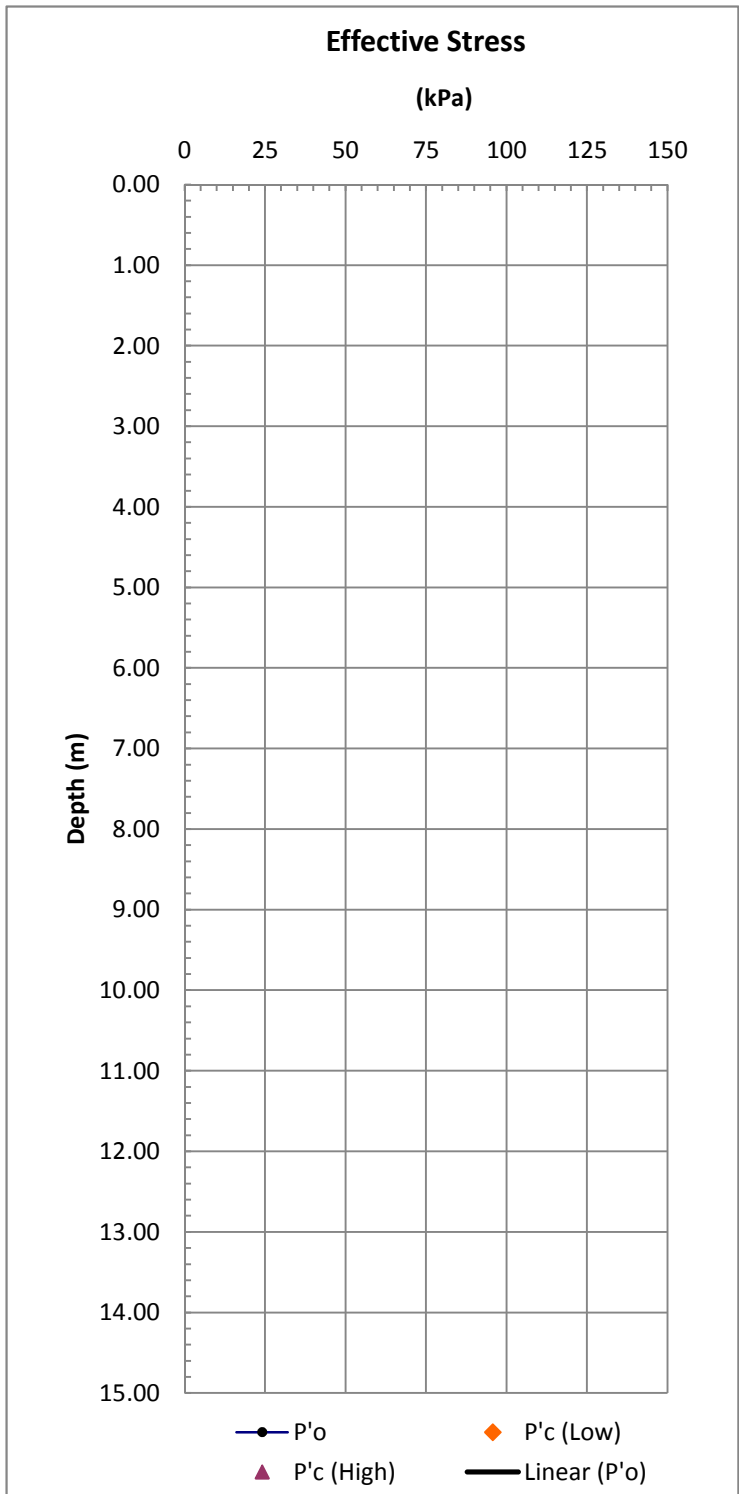
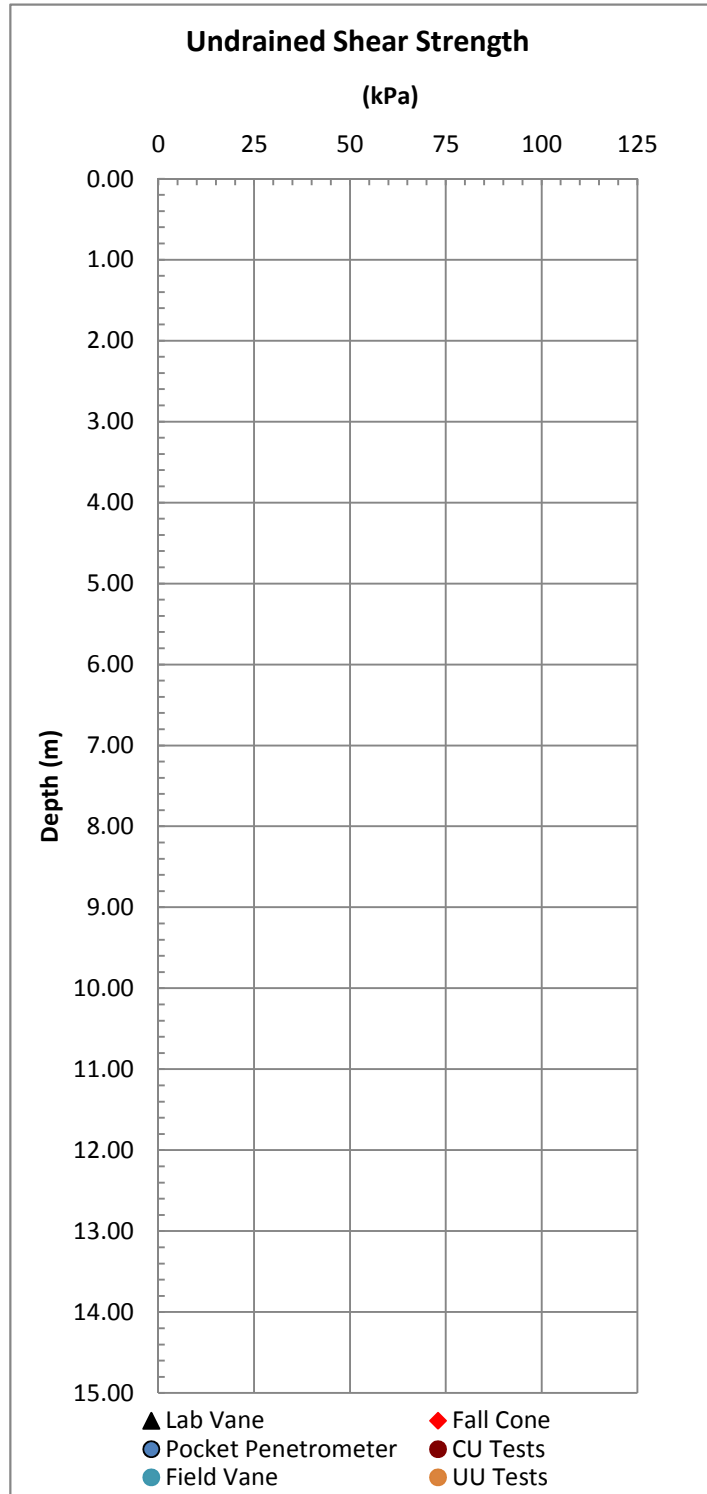
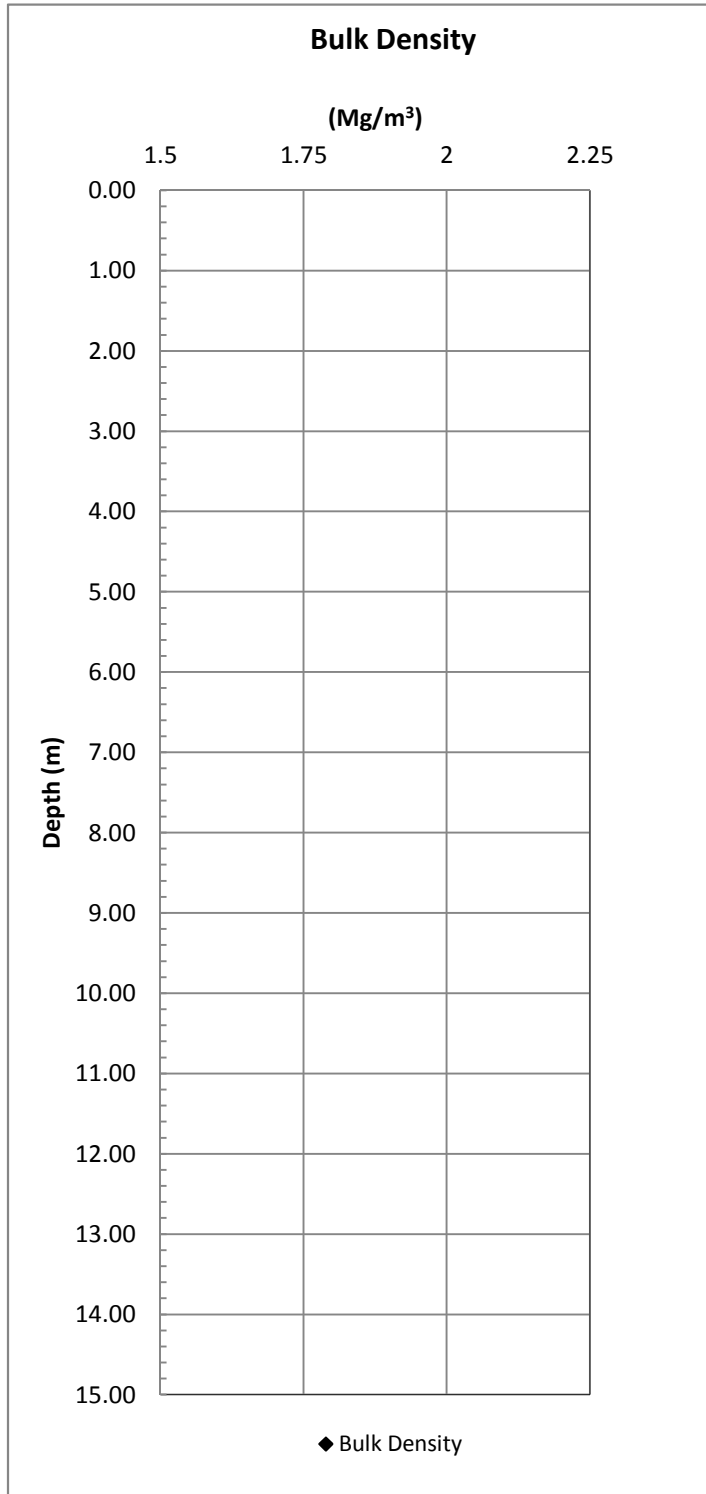


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Figure C.3

10033 Beaufort Data

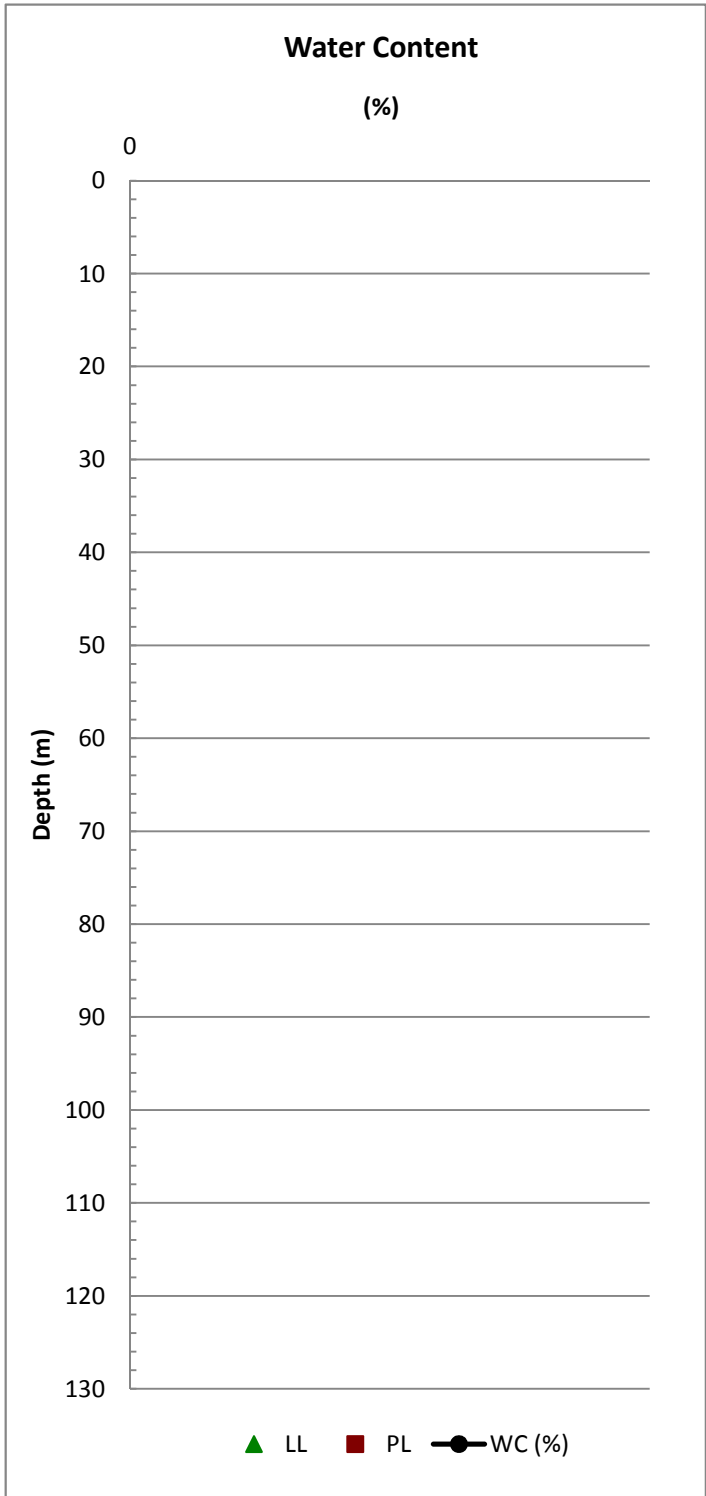
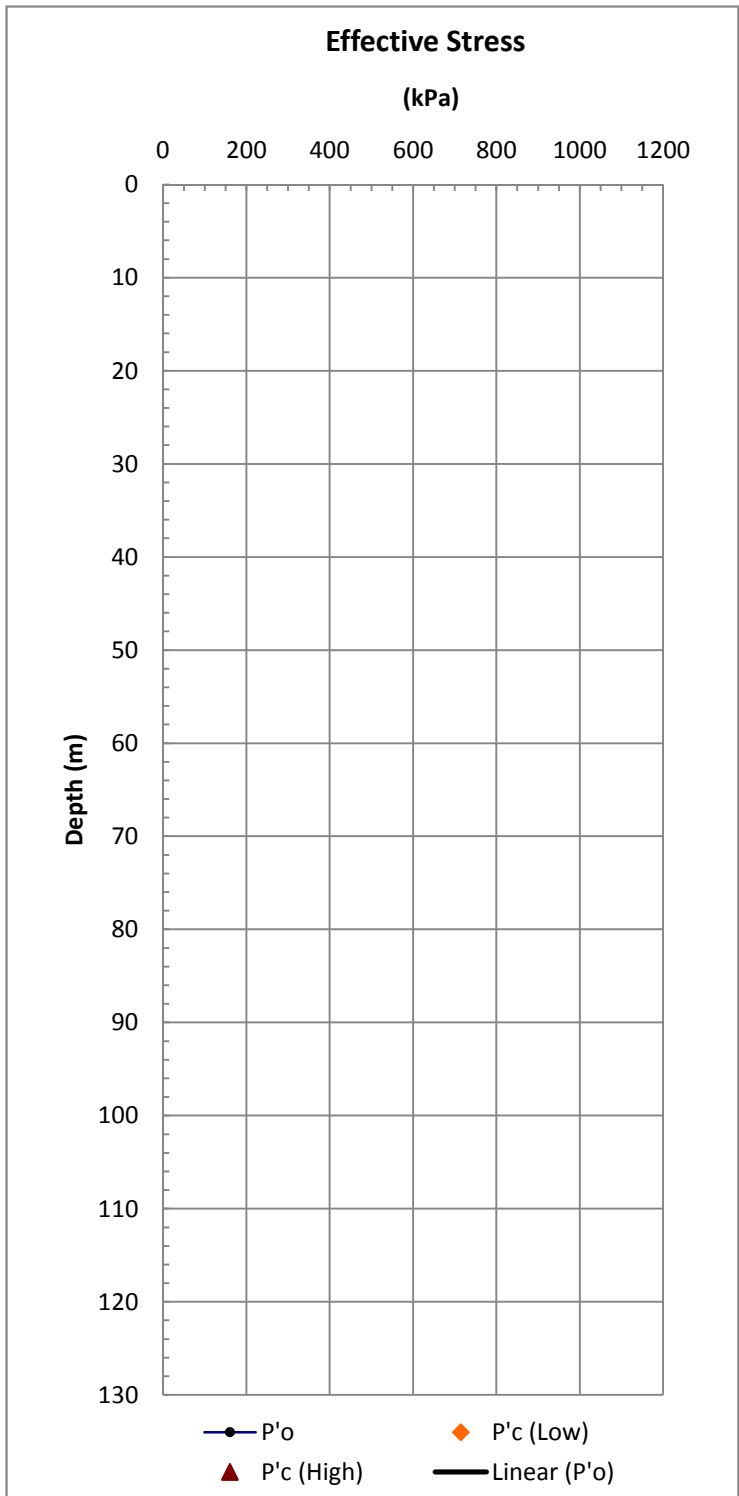
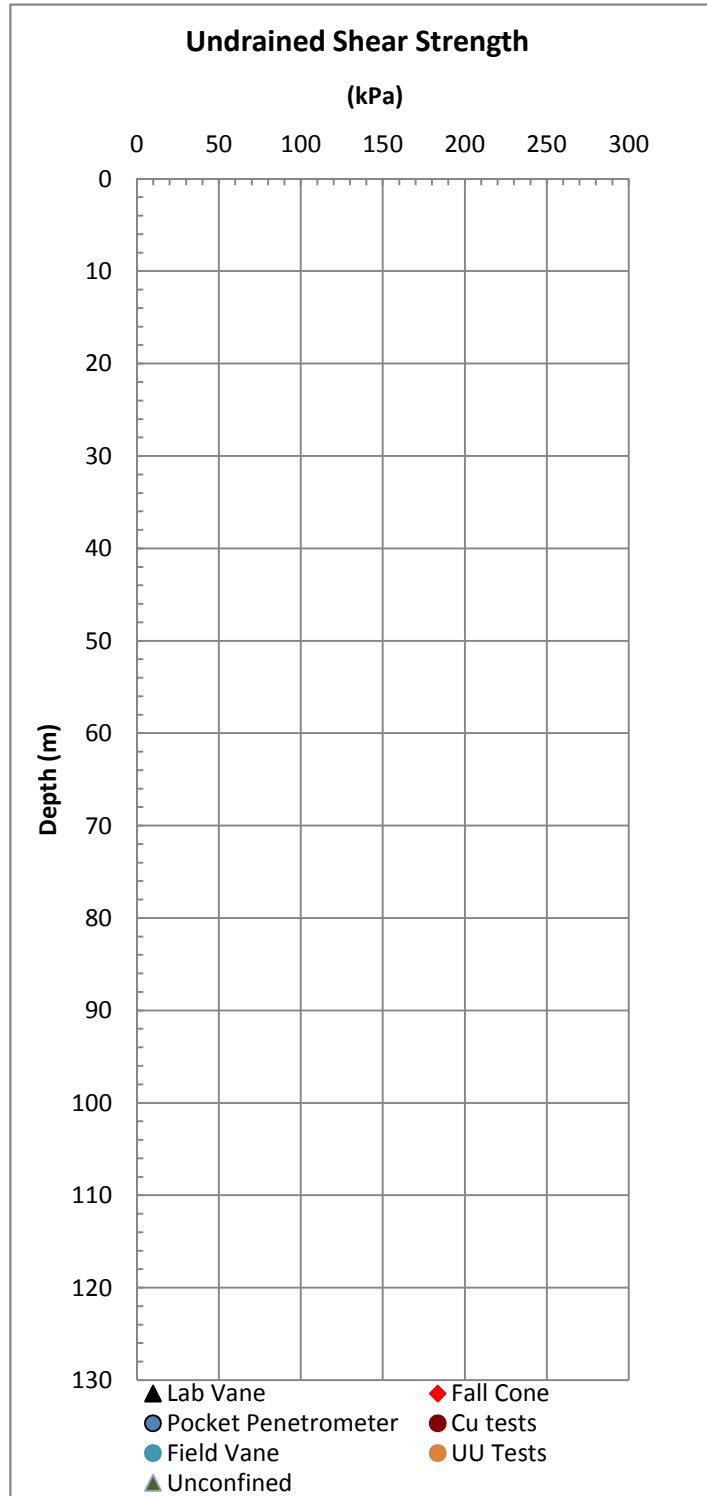
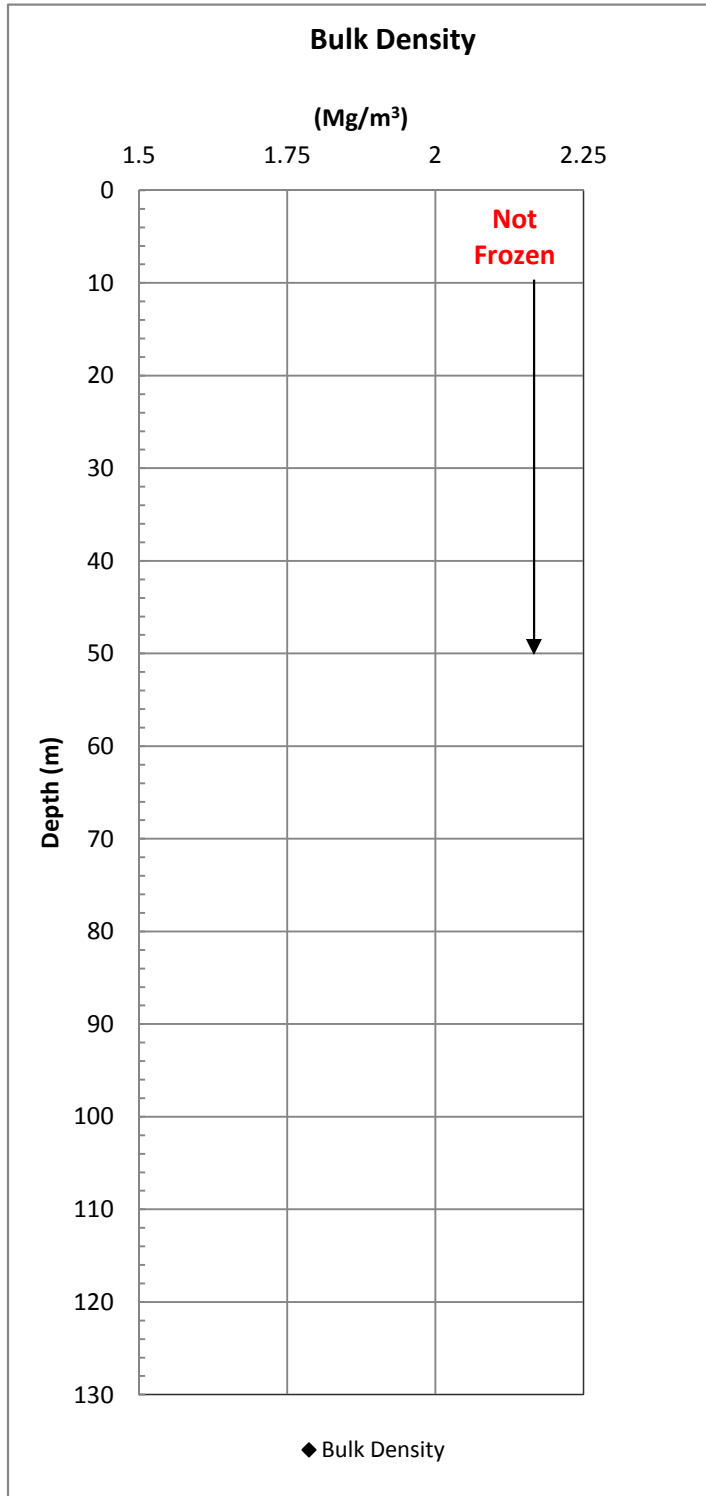


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Figure C.3

10033 Beaufort Data

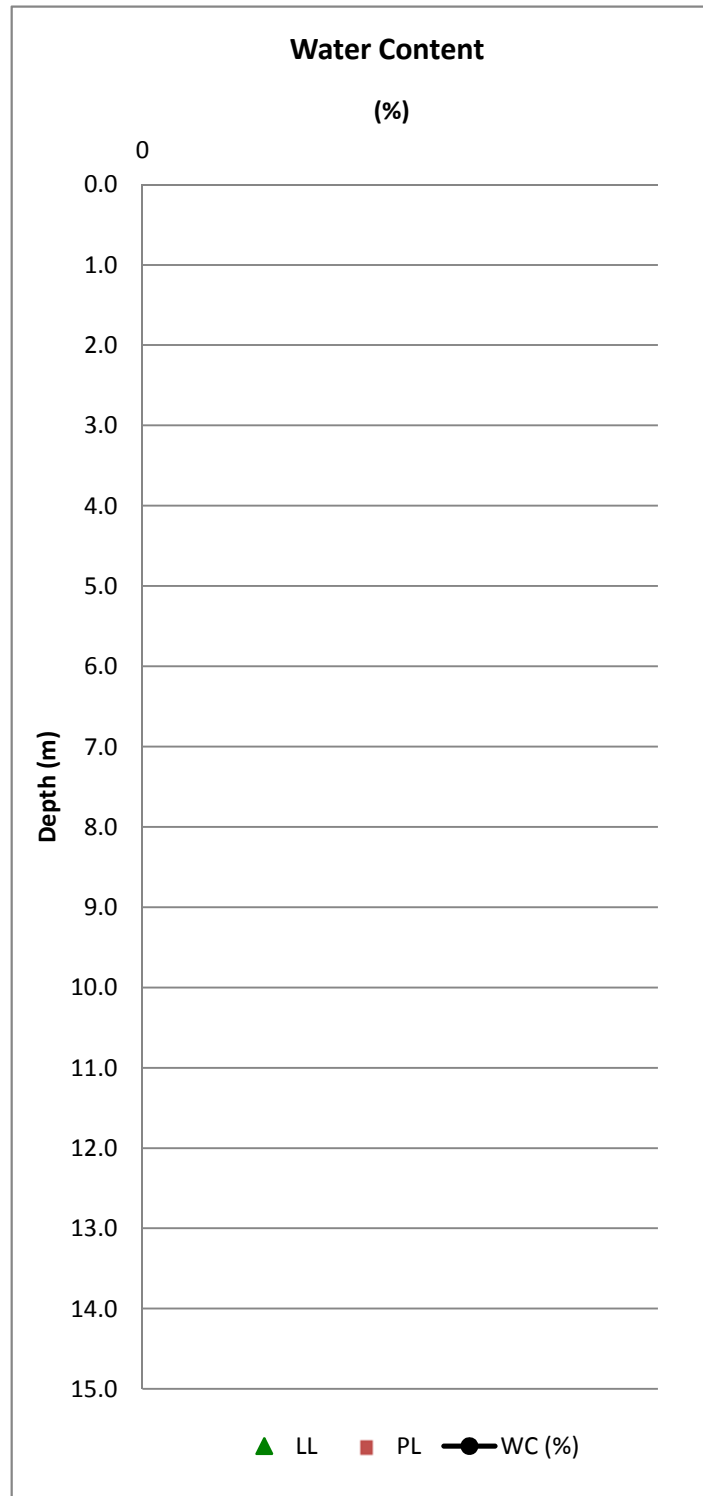
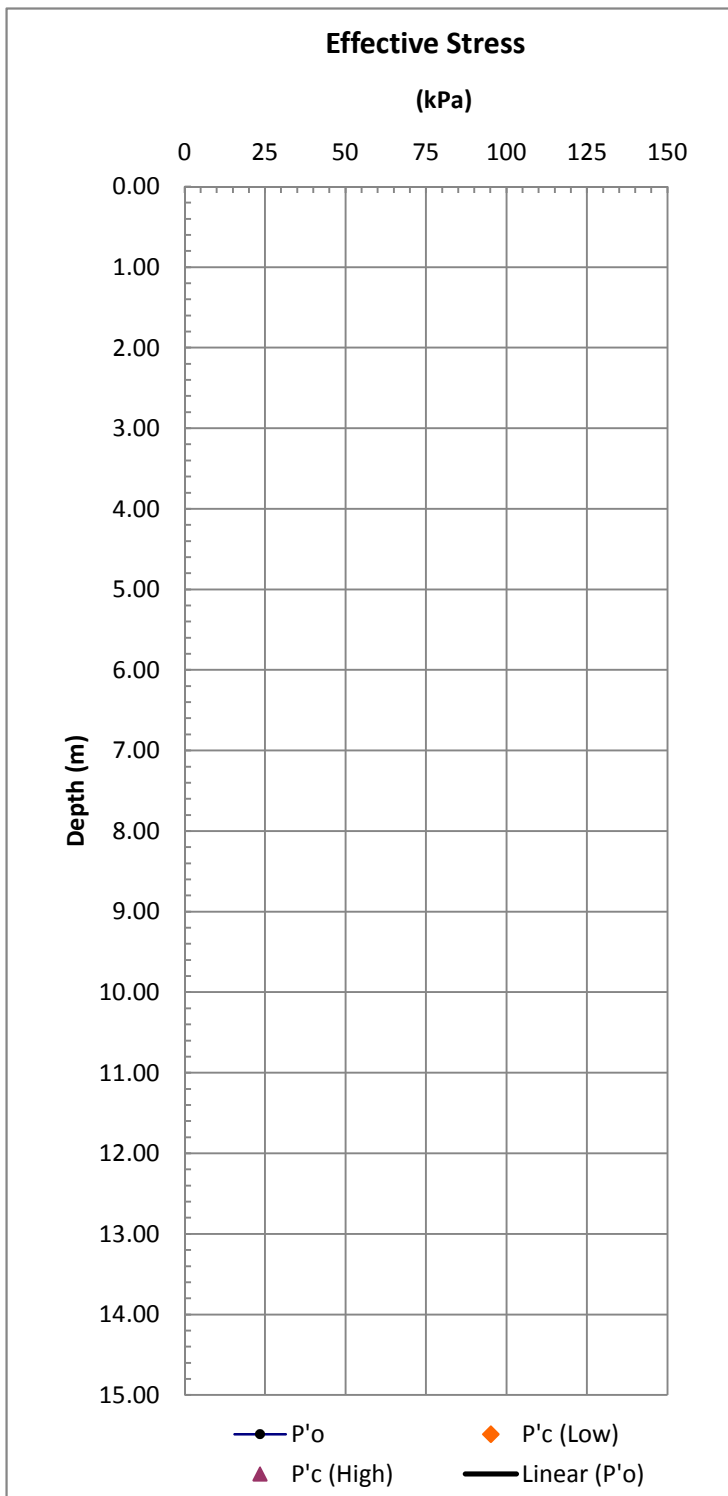
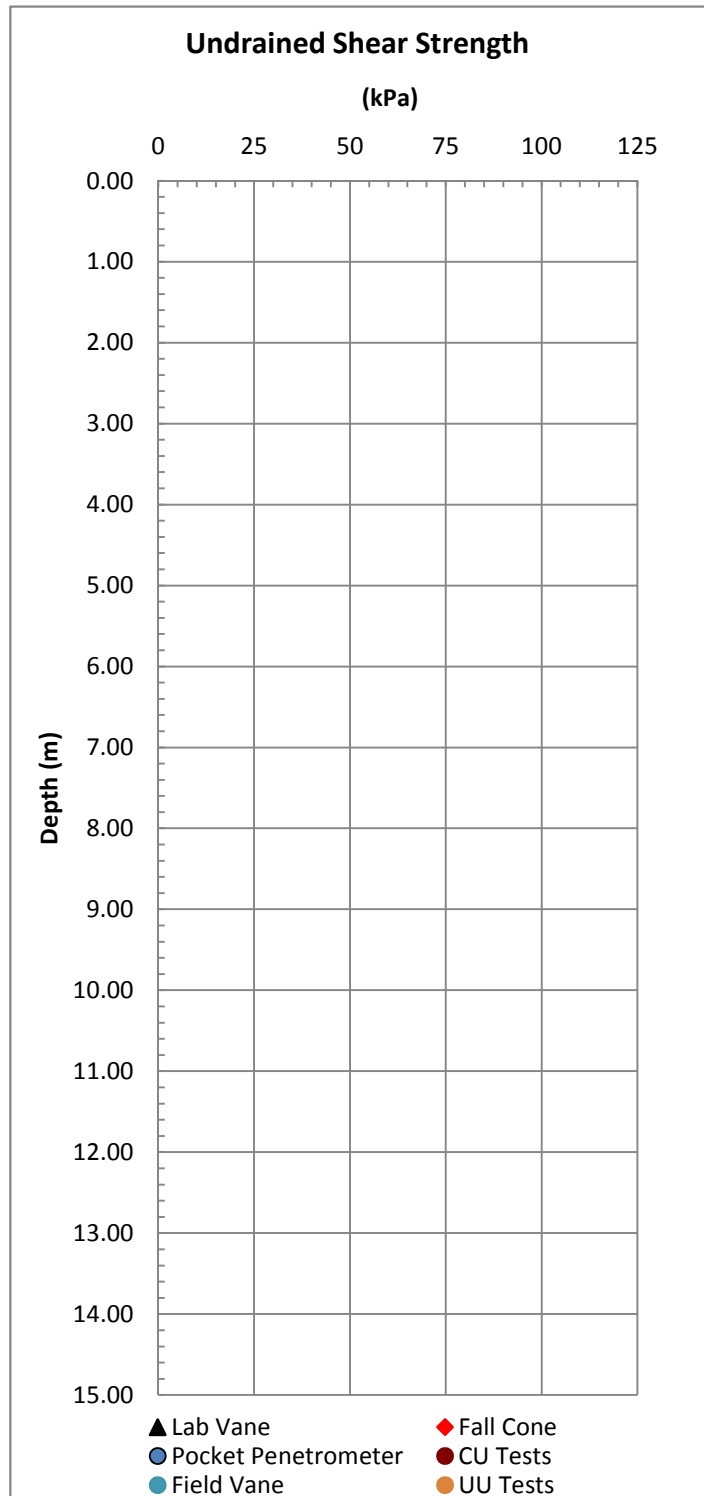
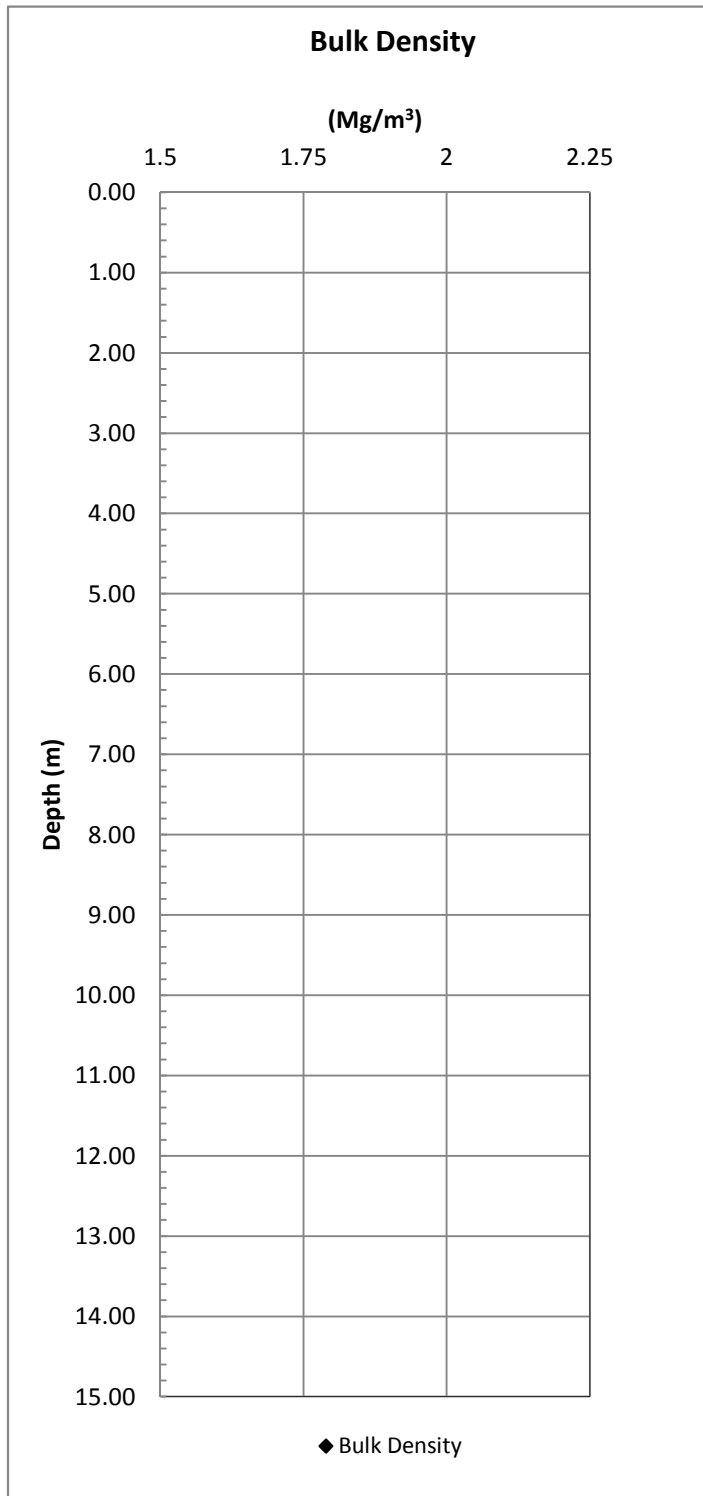


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Figure C.3

10033 Beaufort Data

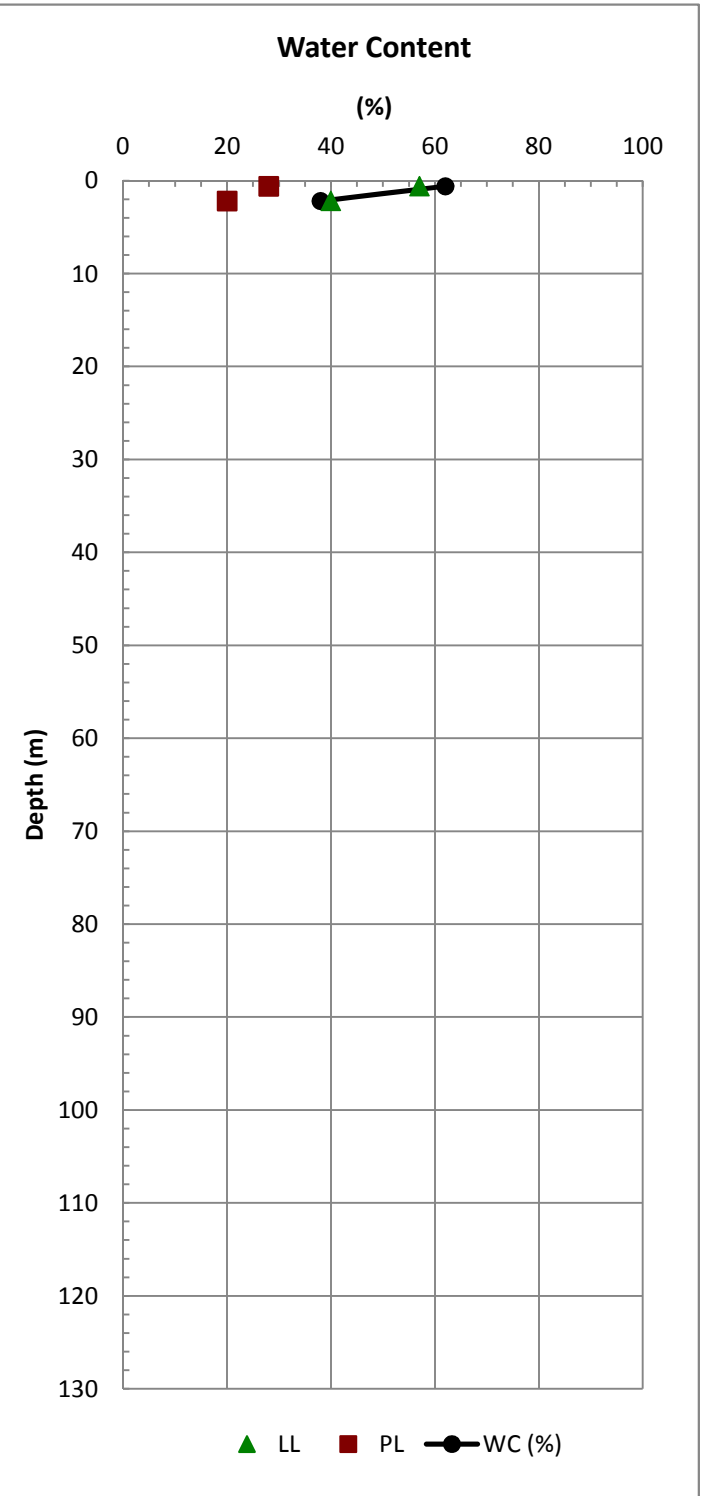
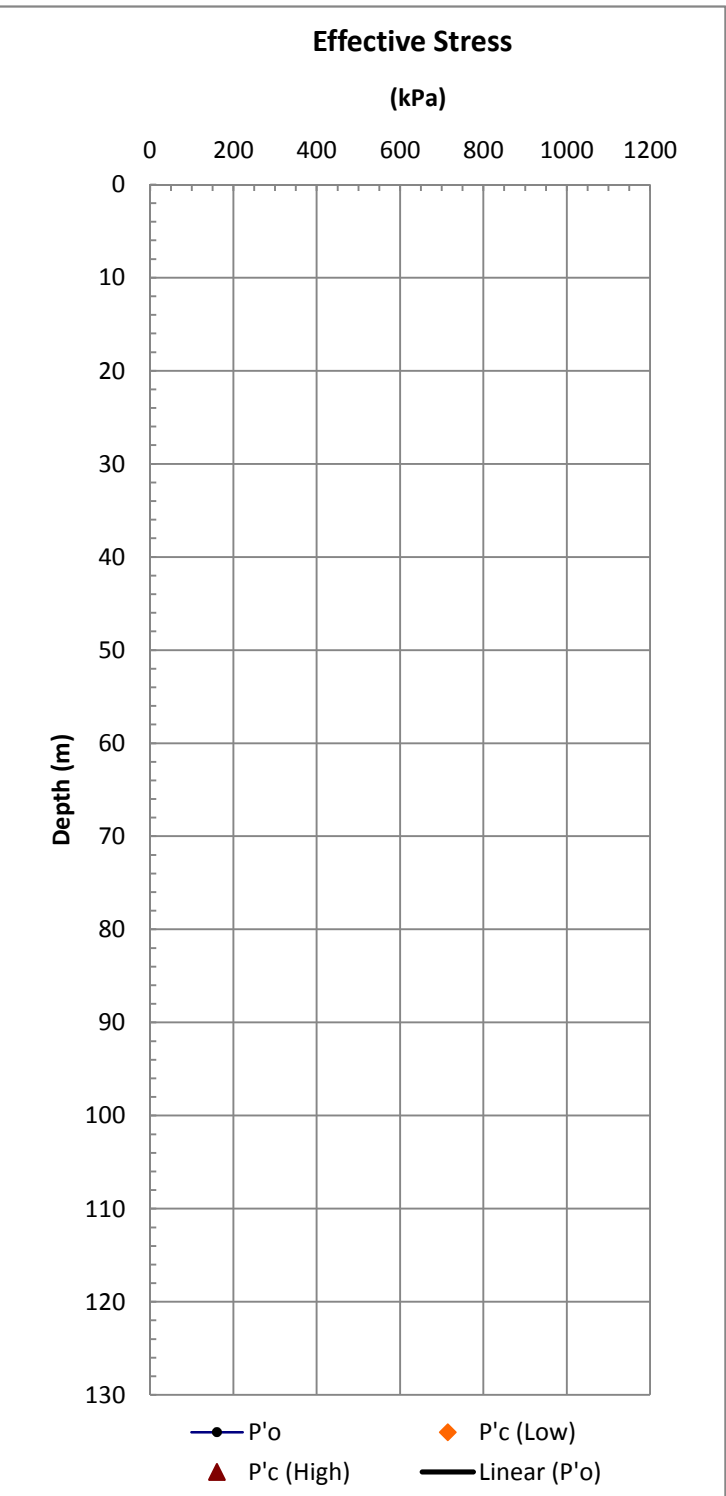
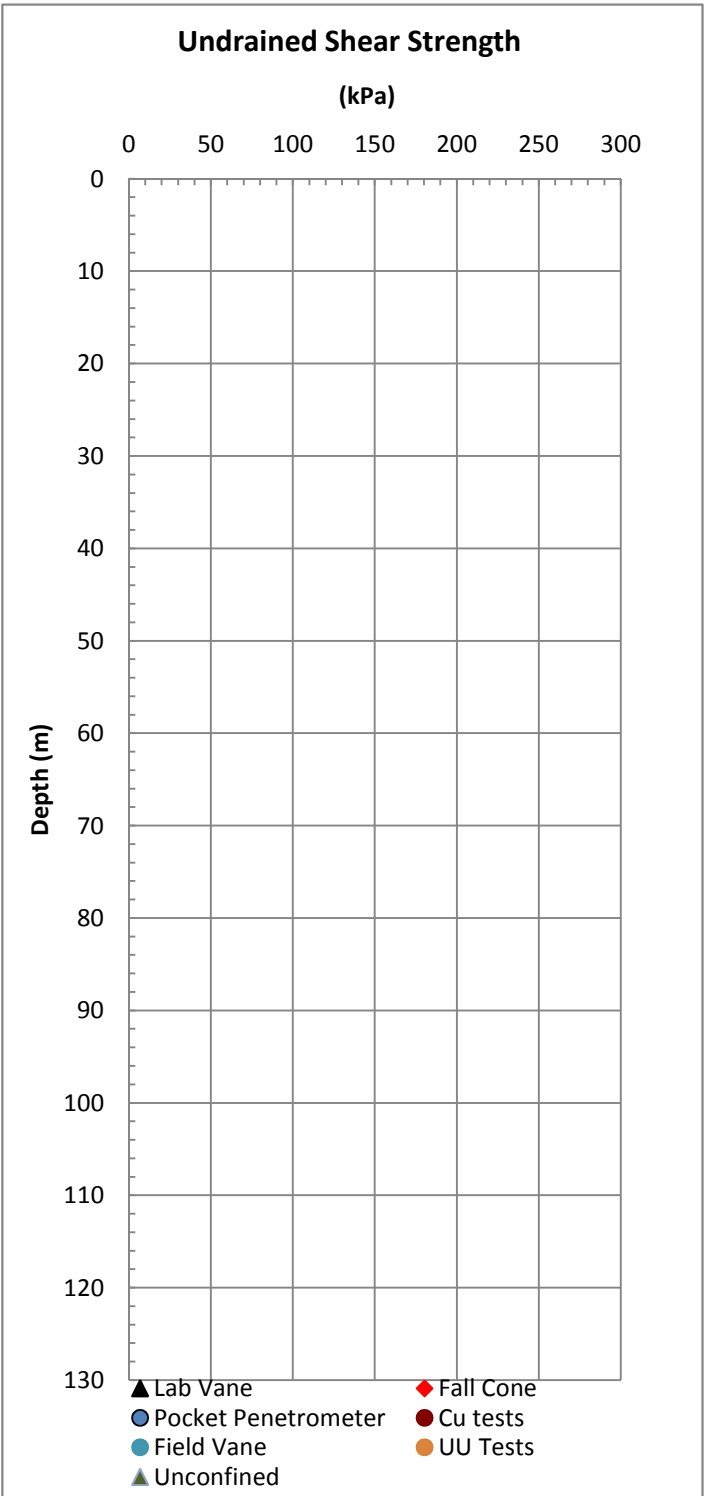
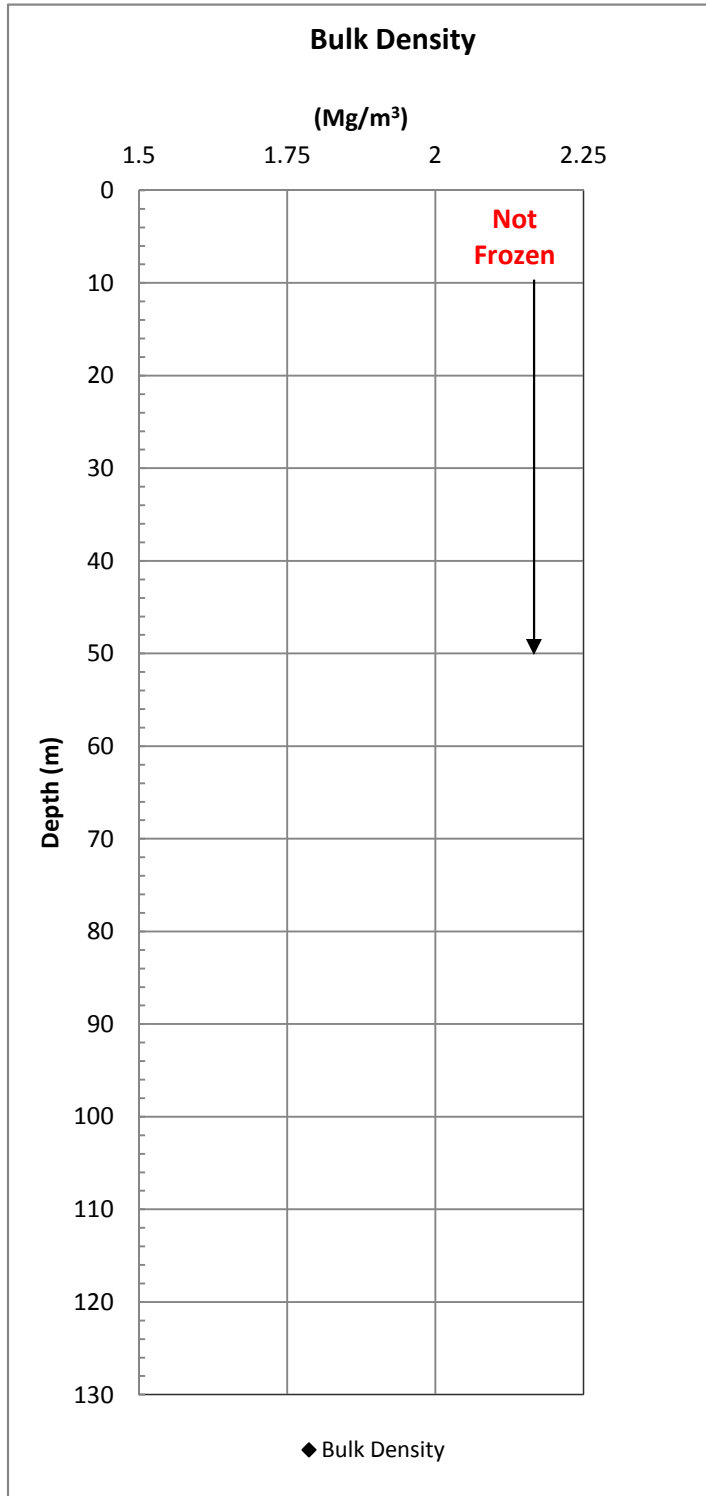


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Figure C.3

10033 Beaufort Data

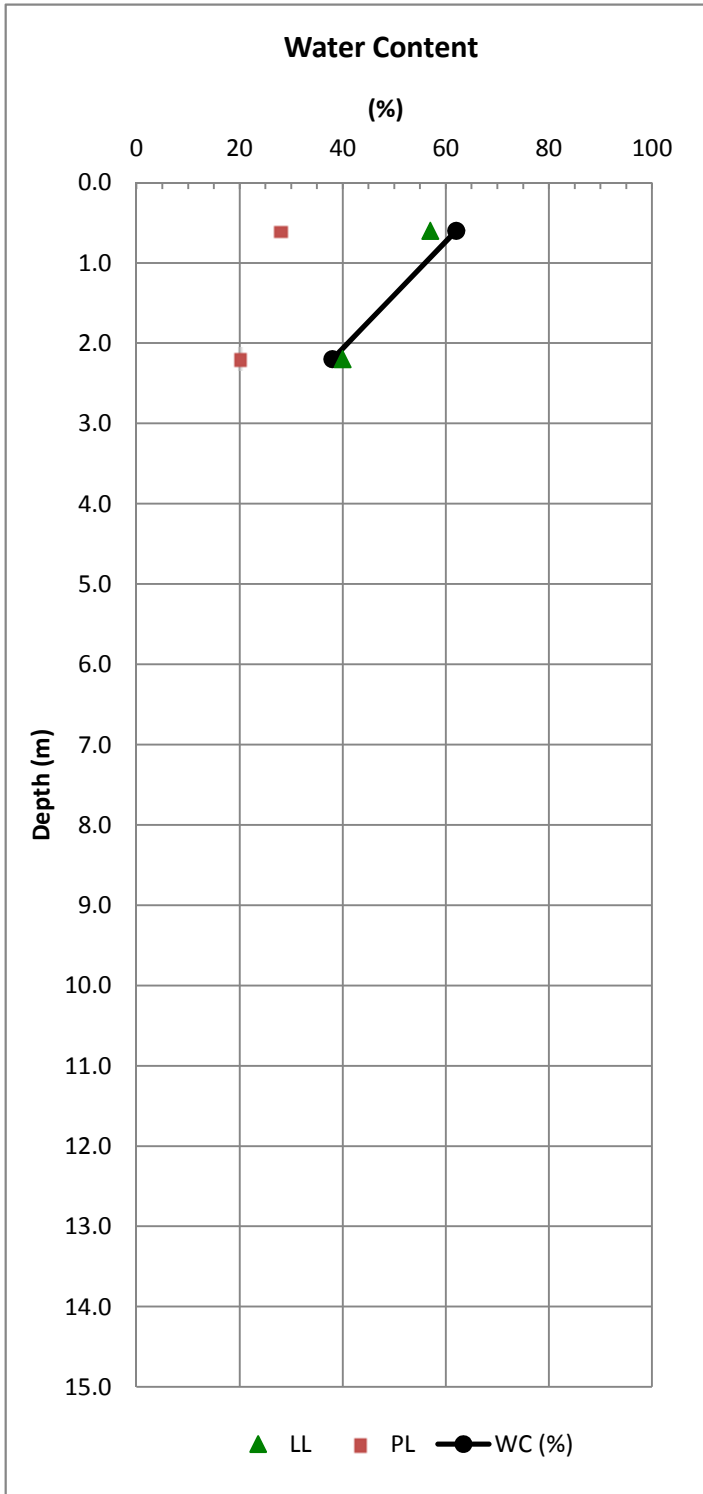
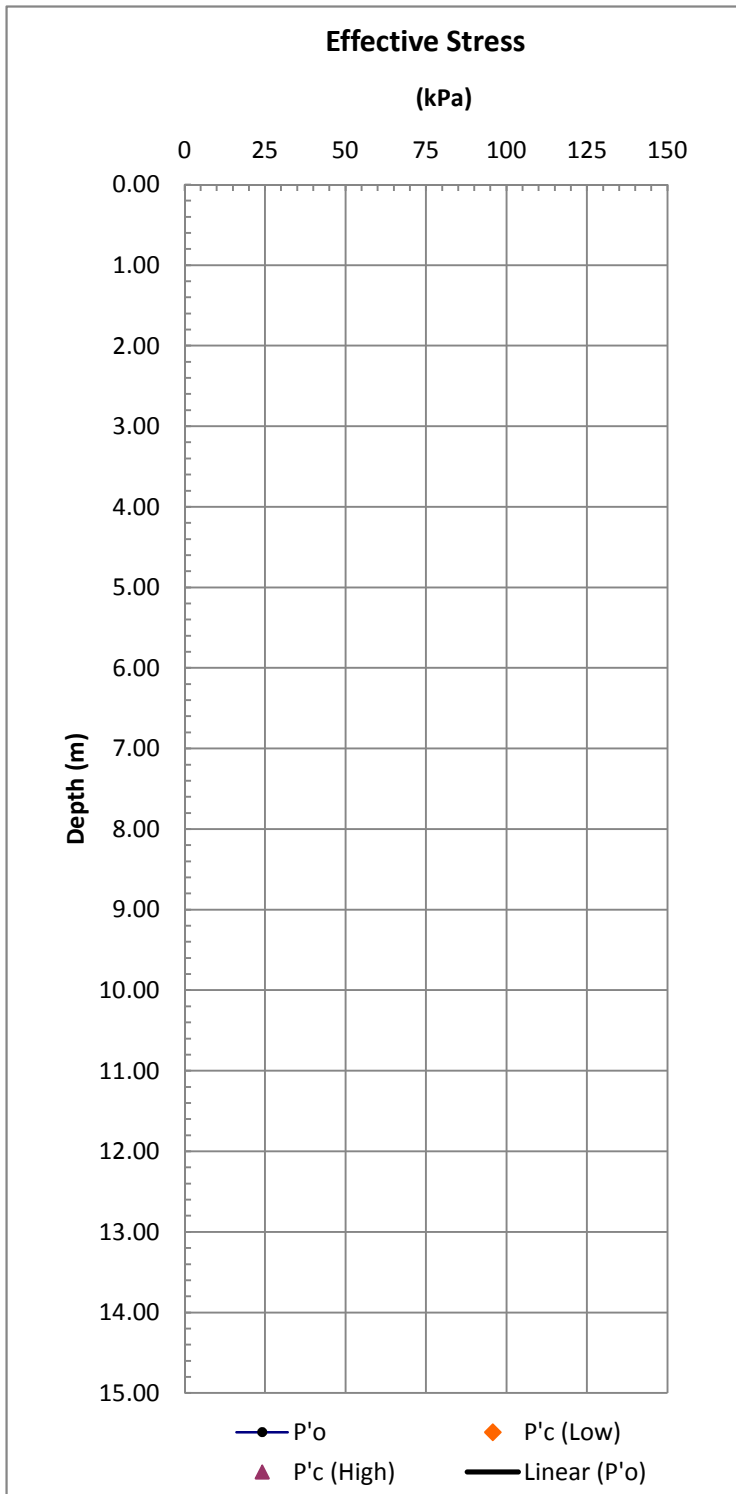
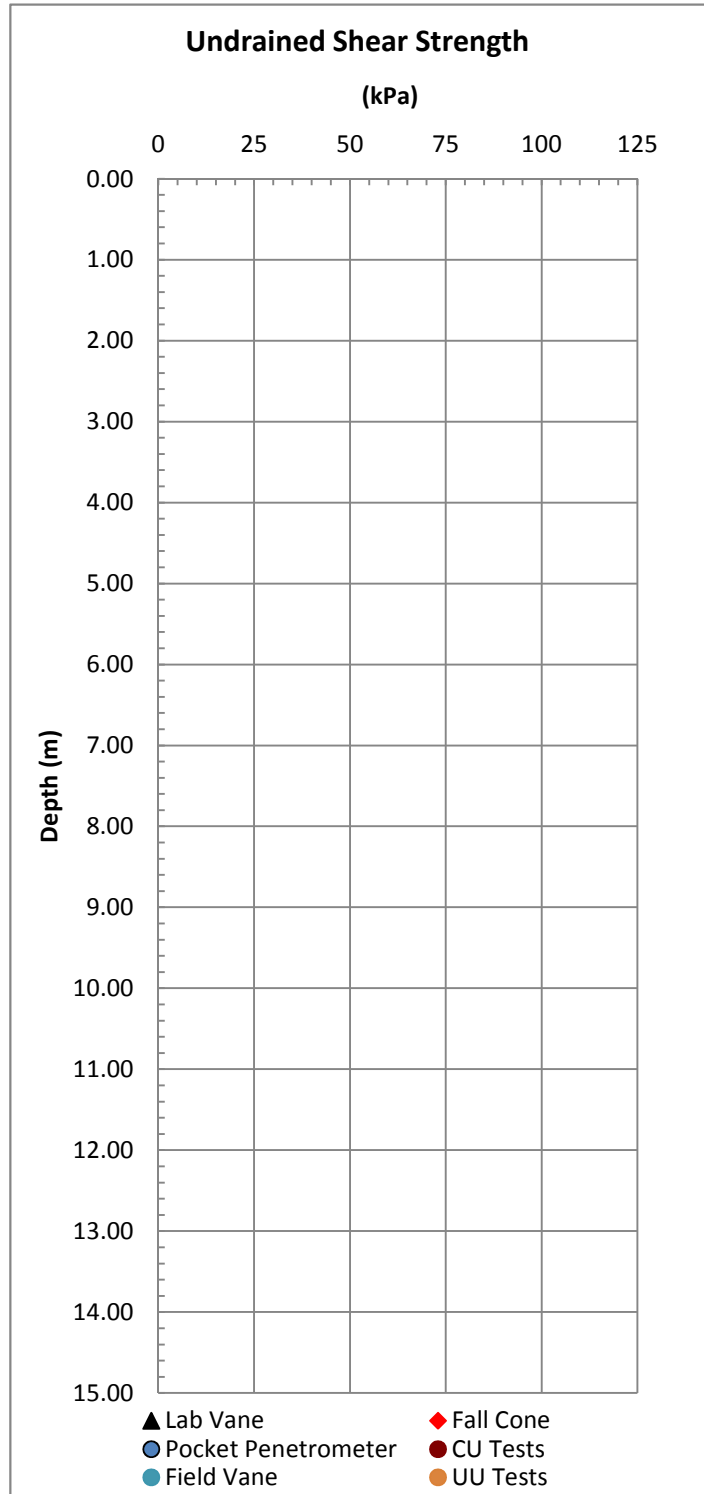
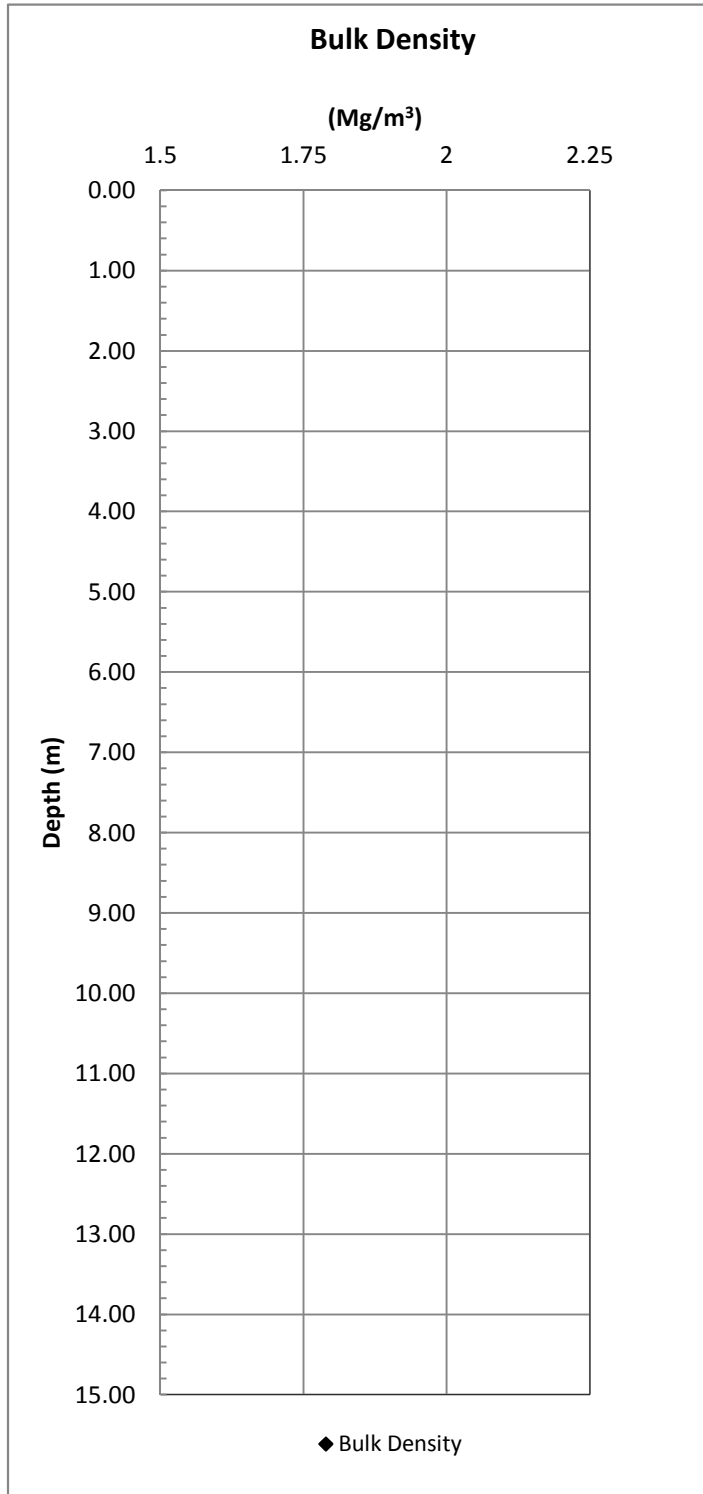


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Figure C.3

10033 Beaufort Data

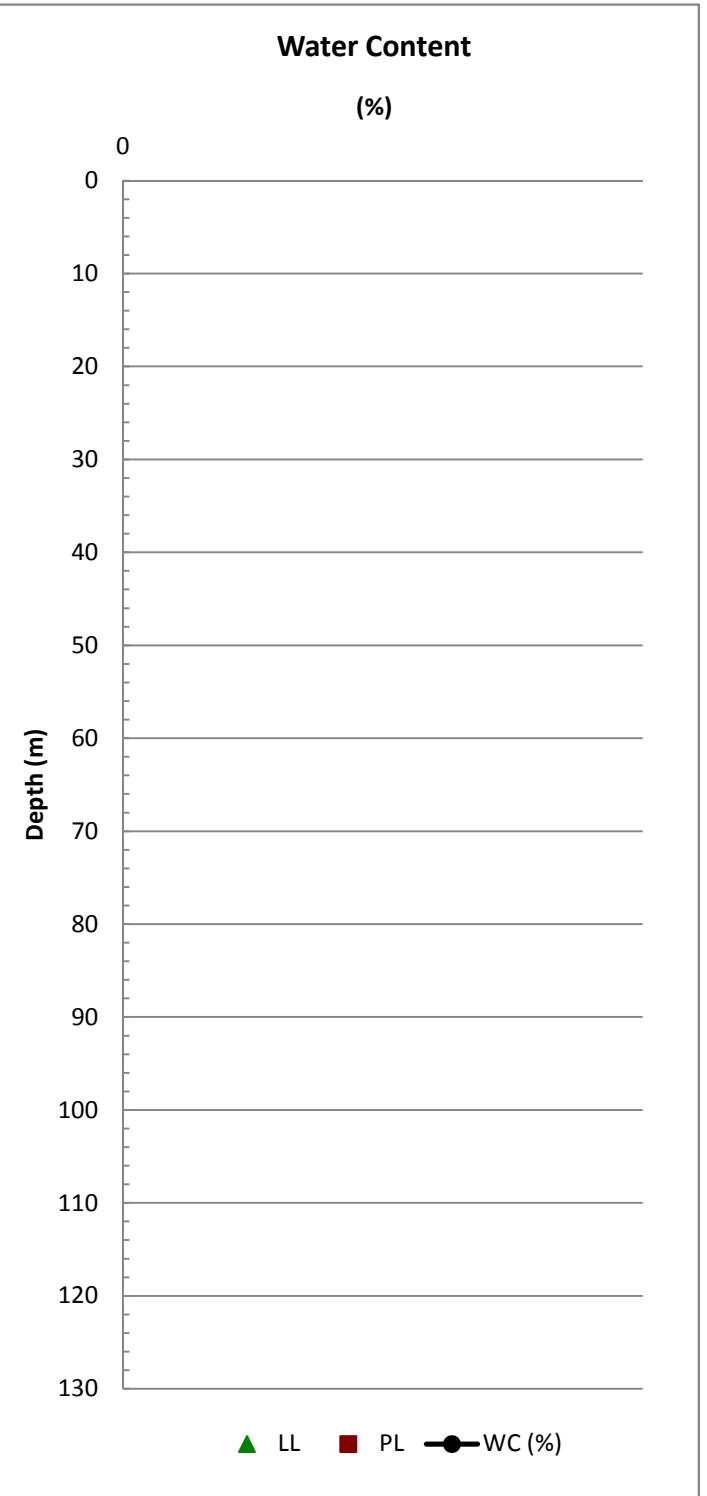
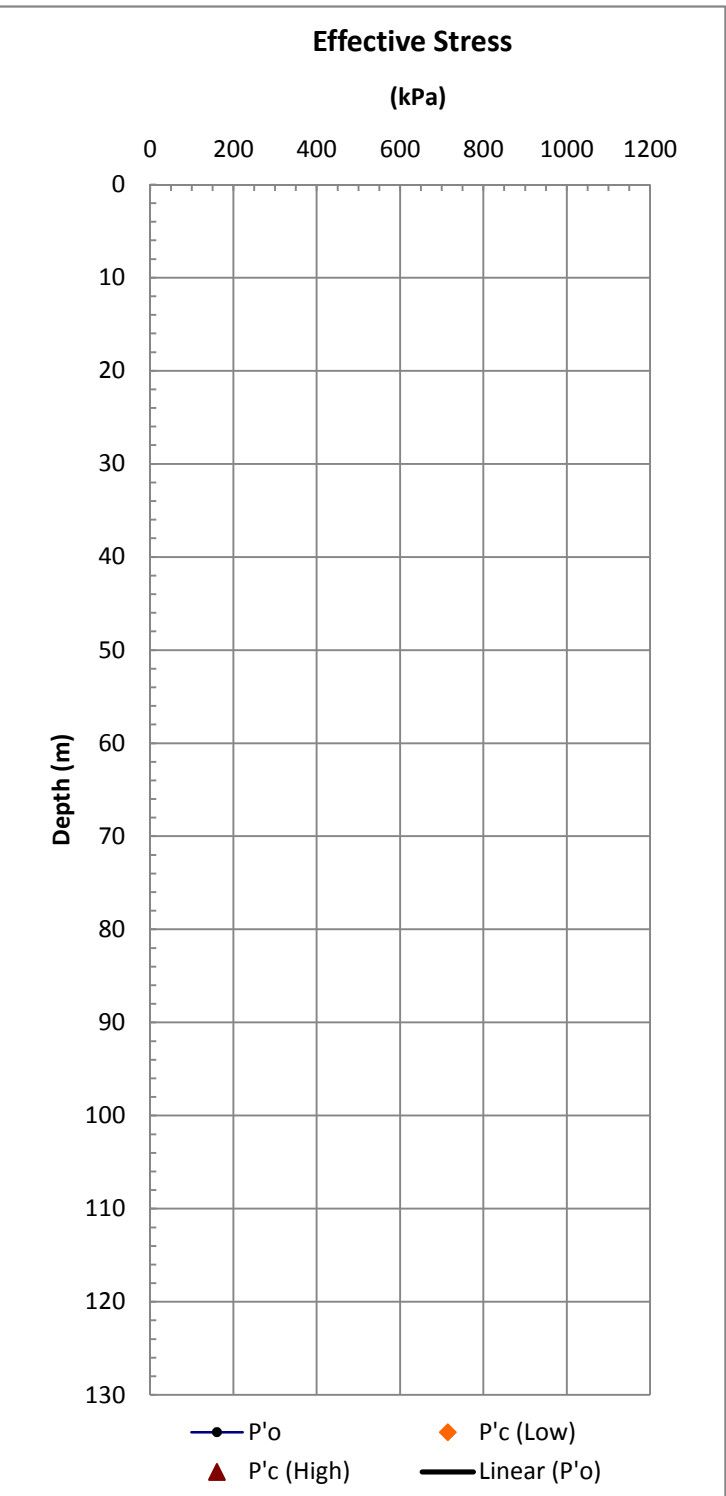
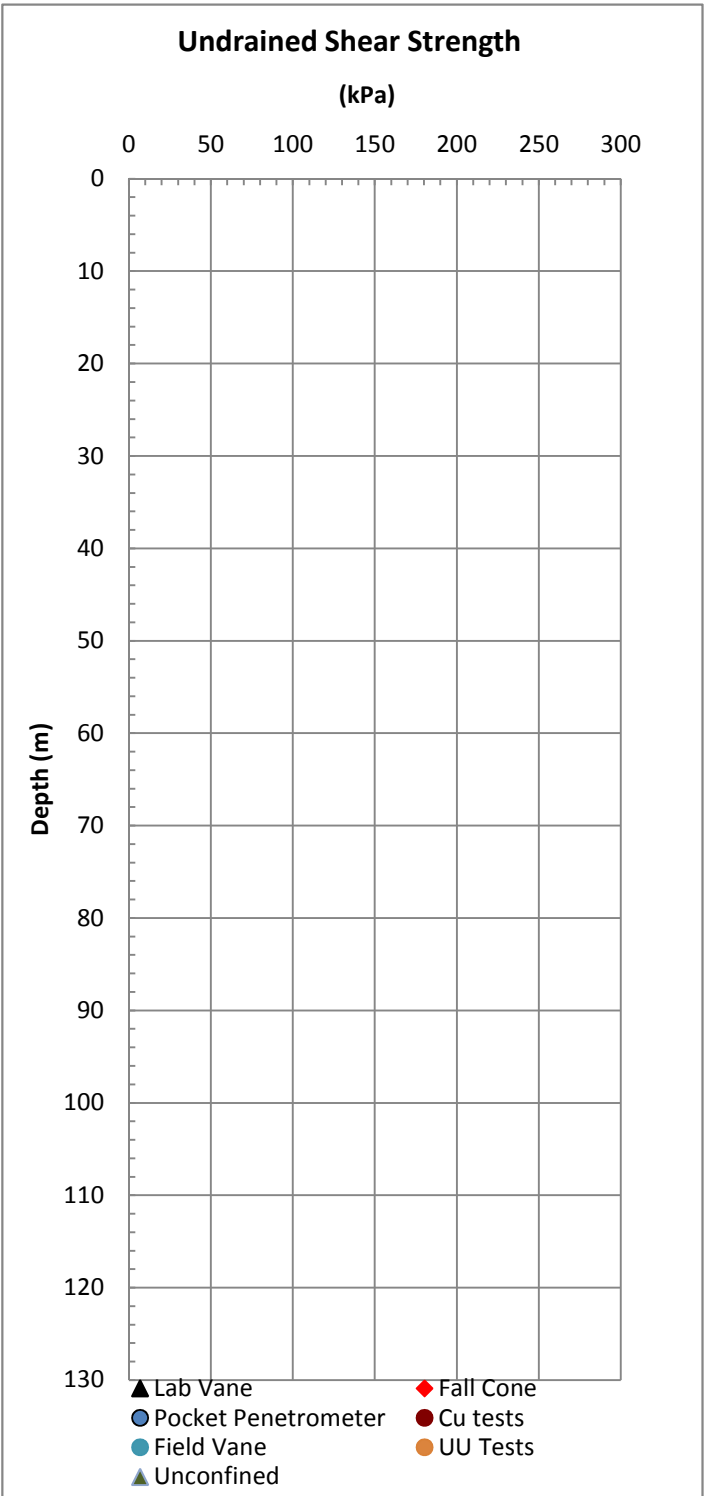
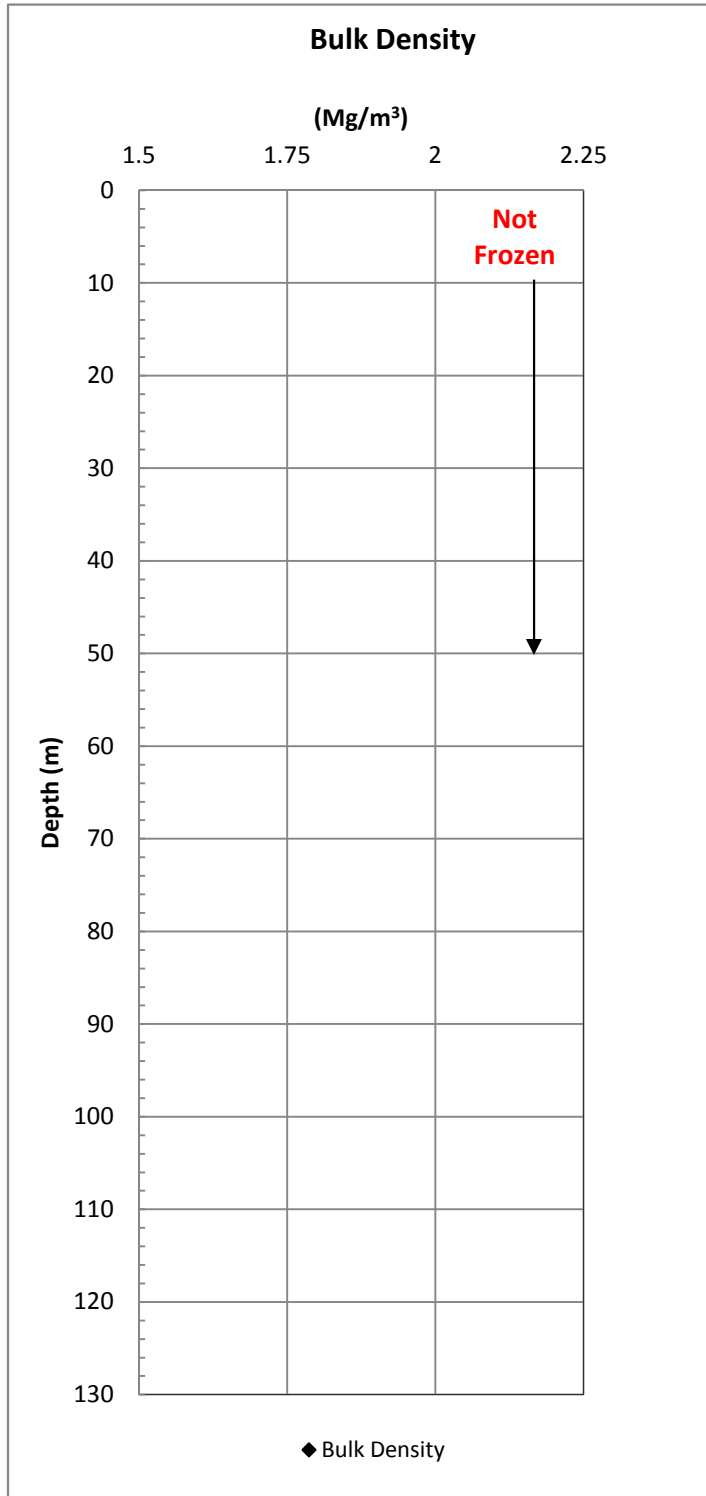


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Figure C.3

10033 Beaufort Data

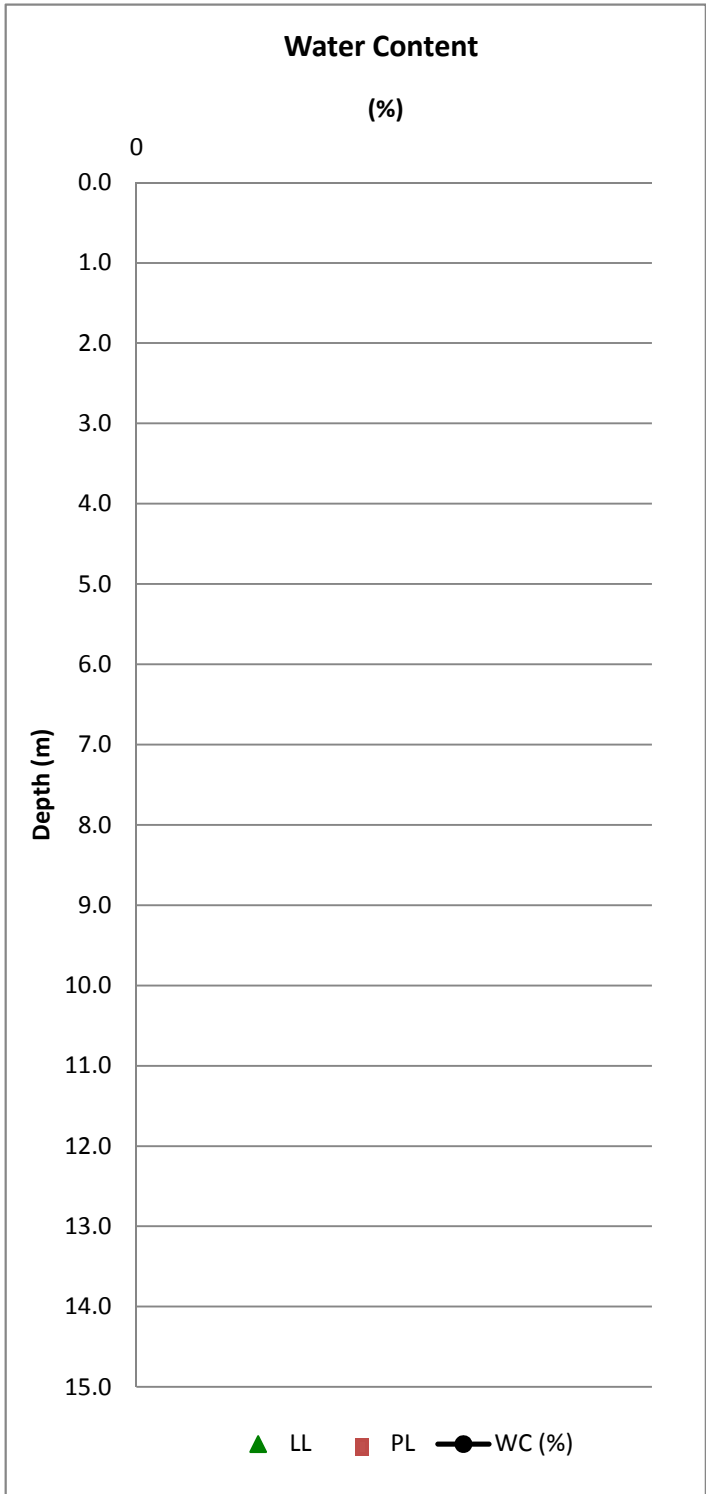
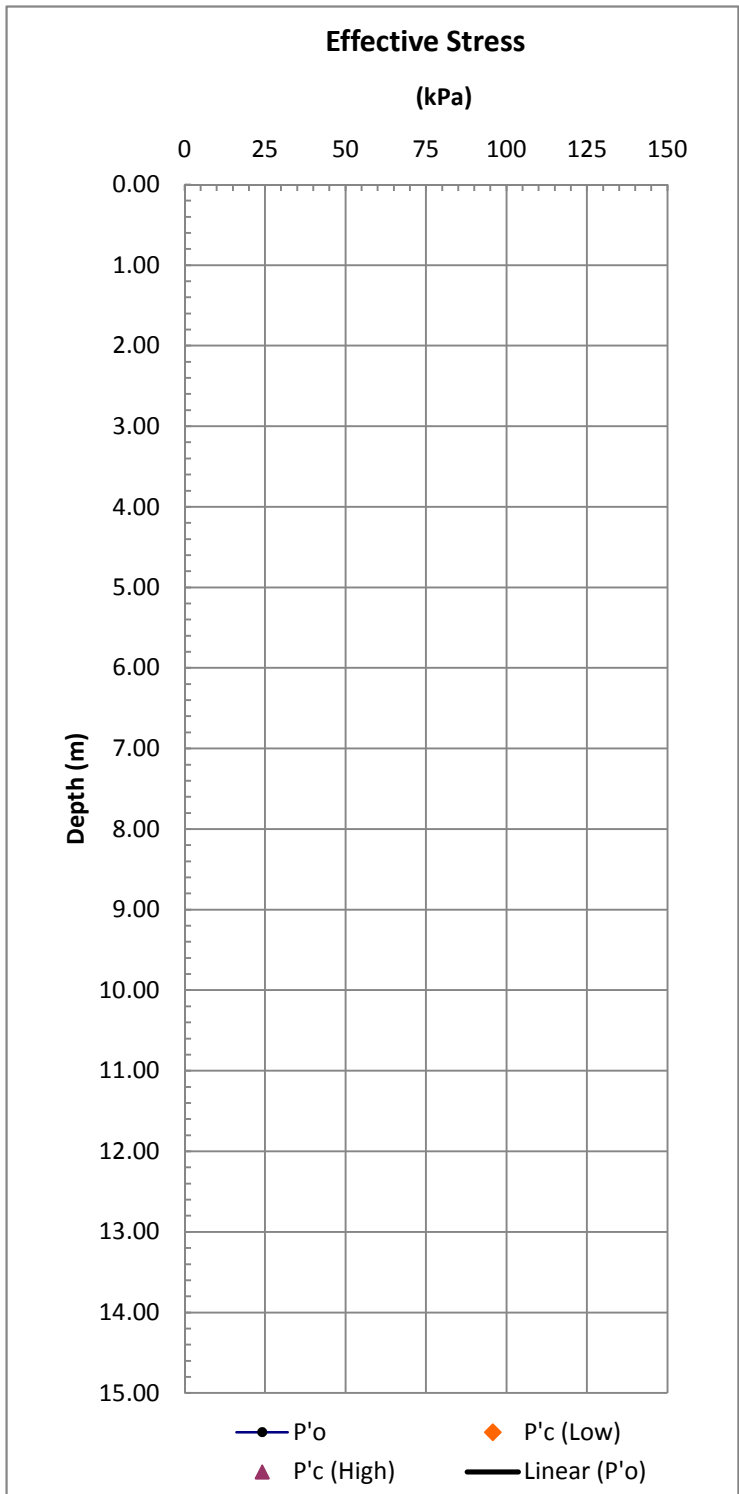
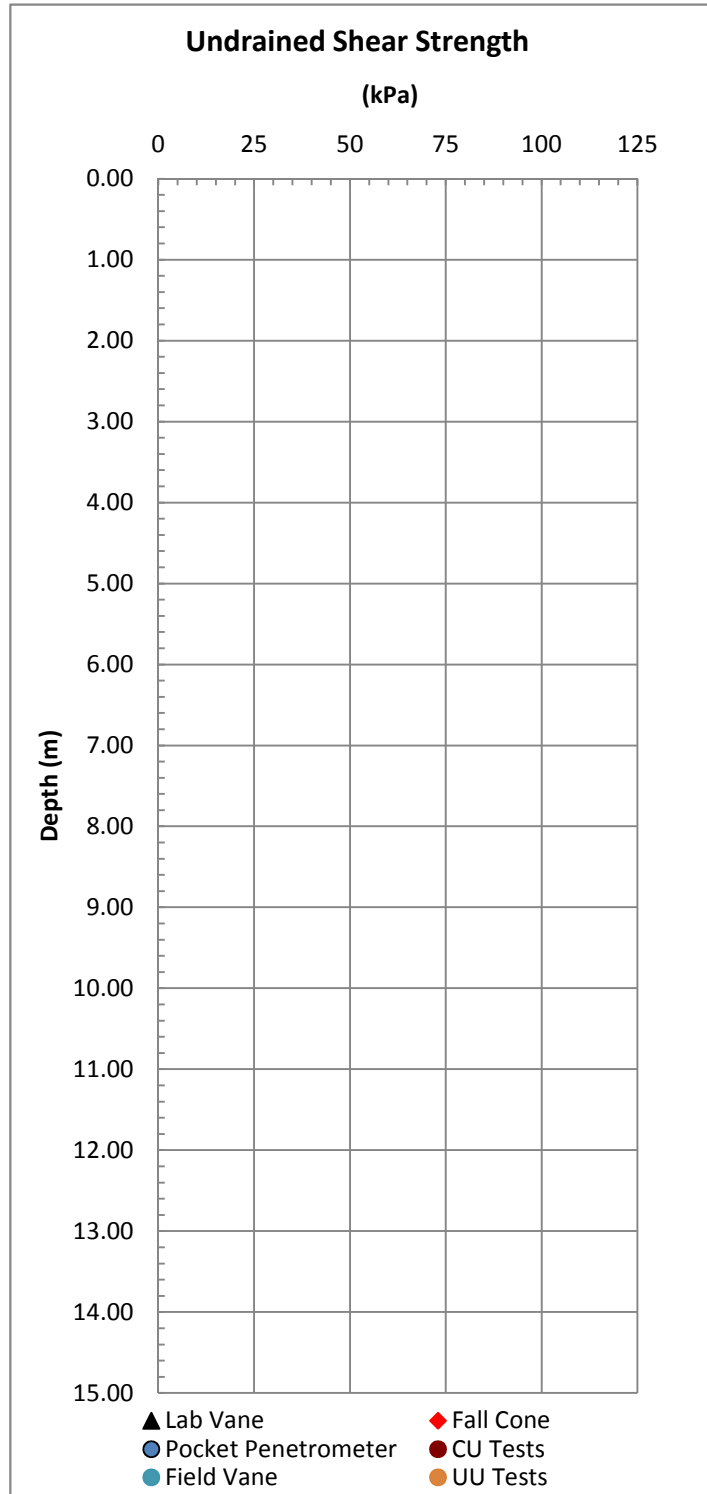
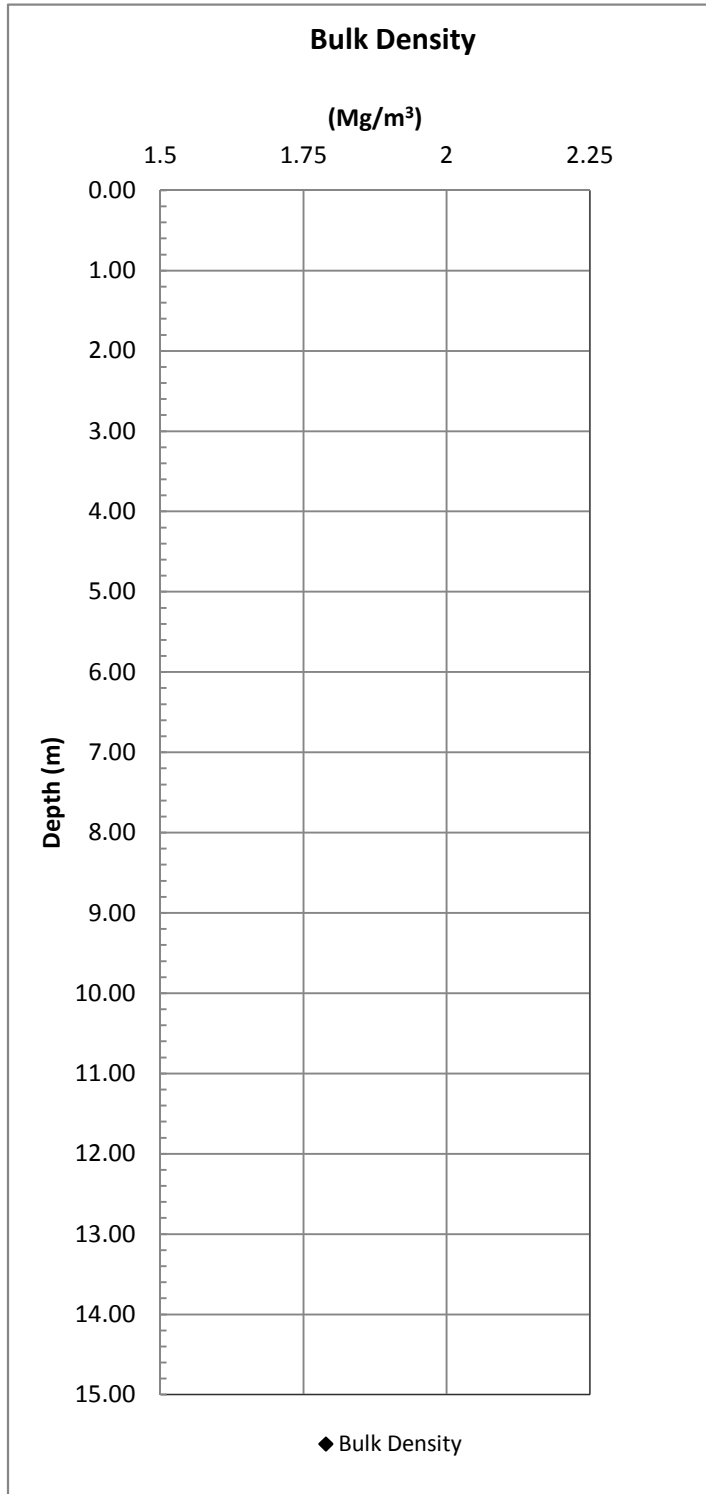


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Figure C.3

10033 Beaufort Data

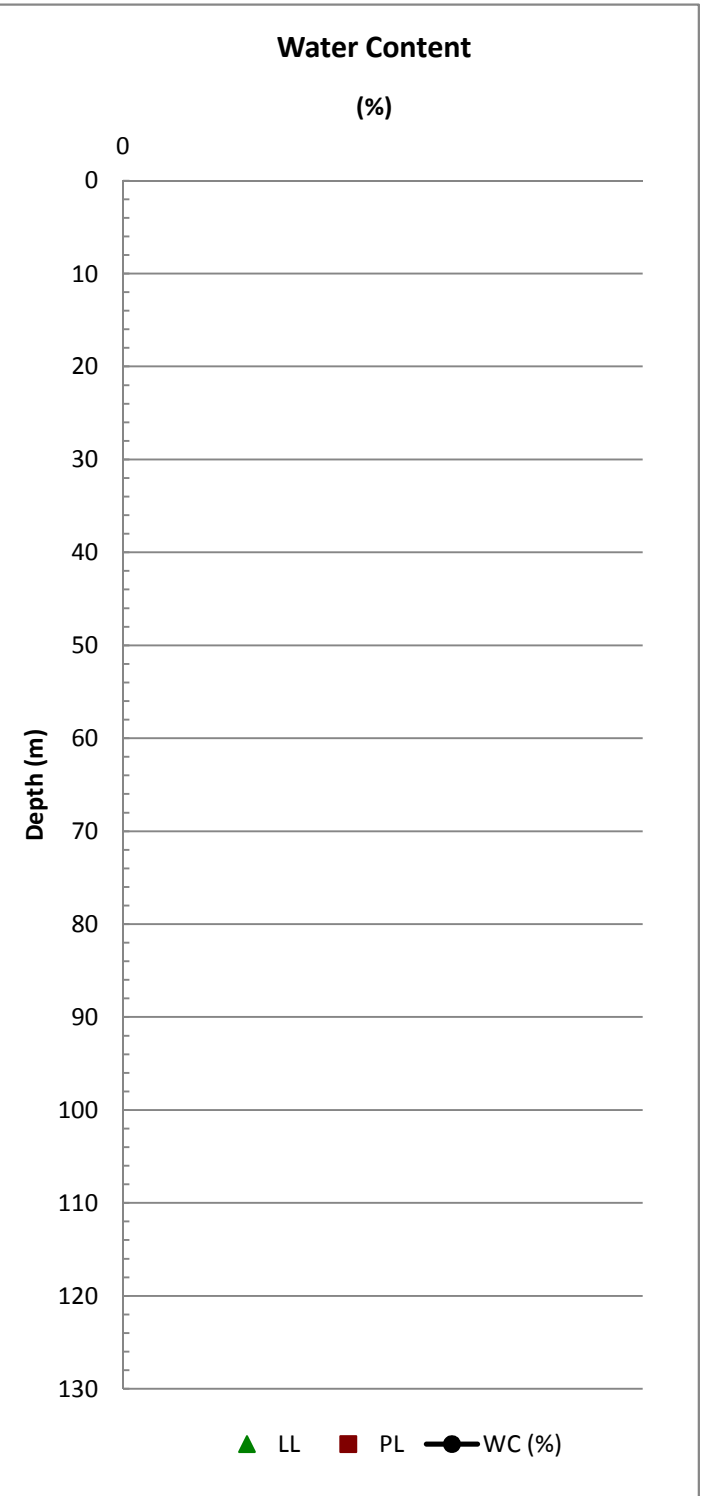
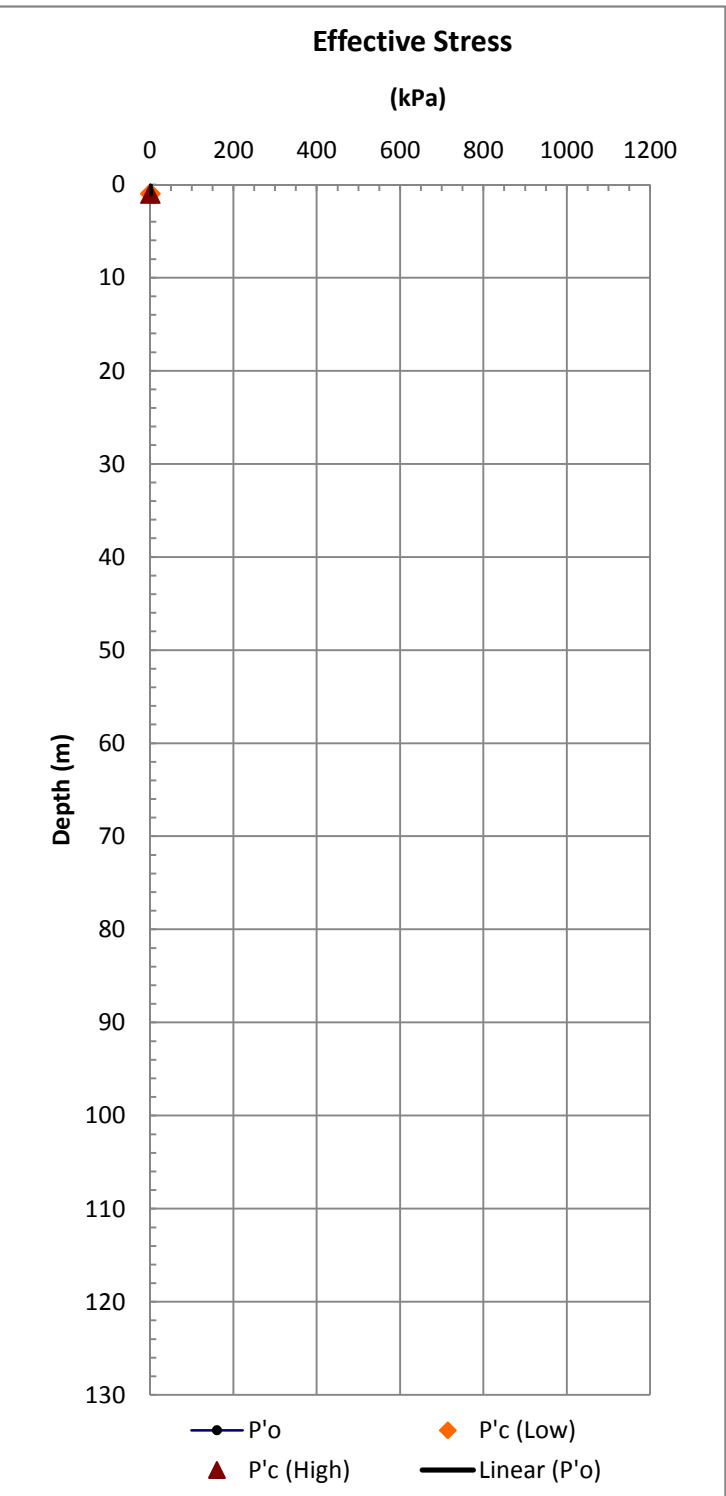
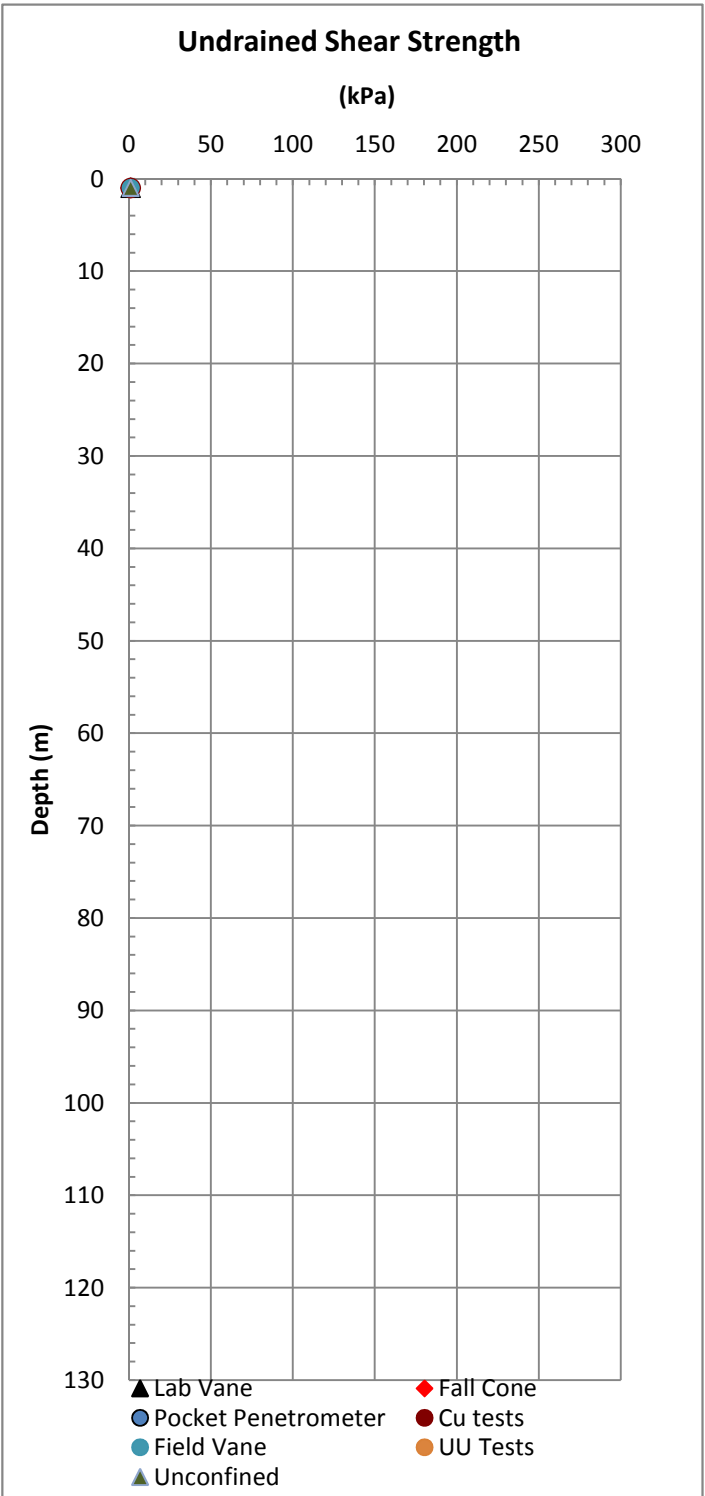
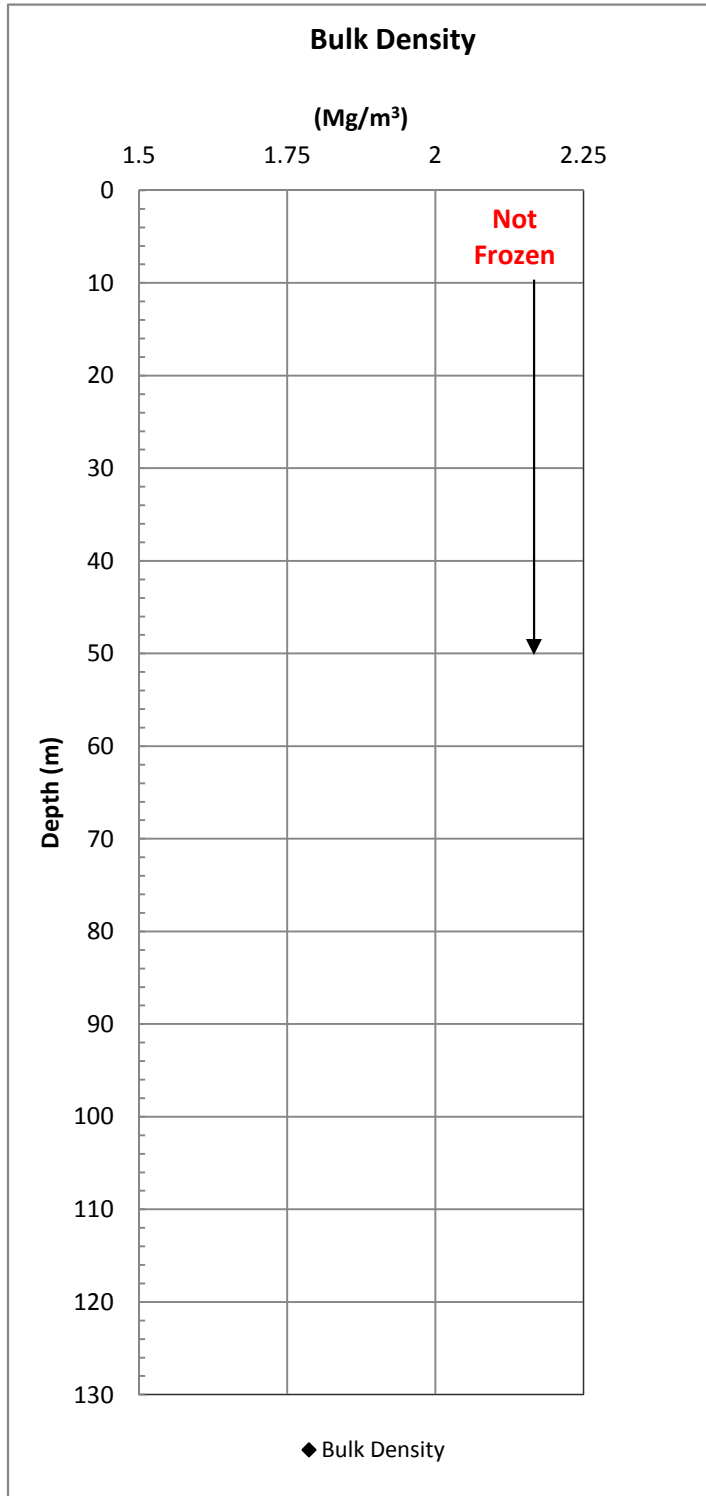


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Figure C.3

10033 Beaufort Data

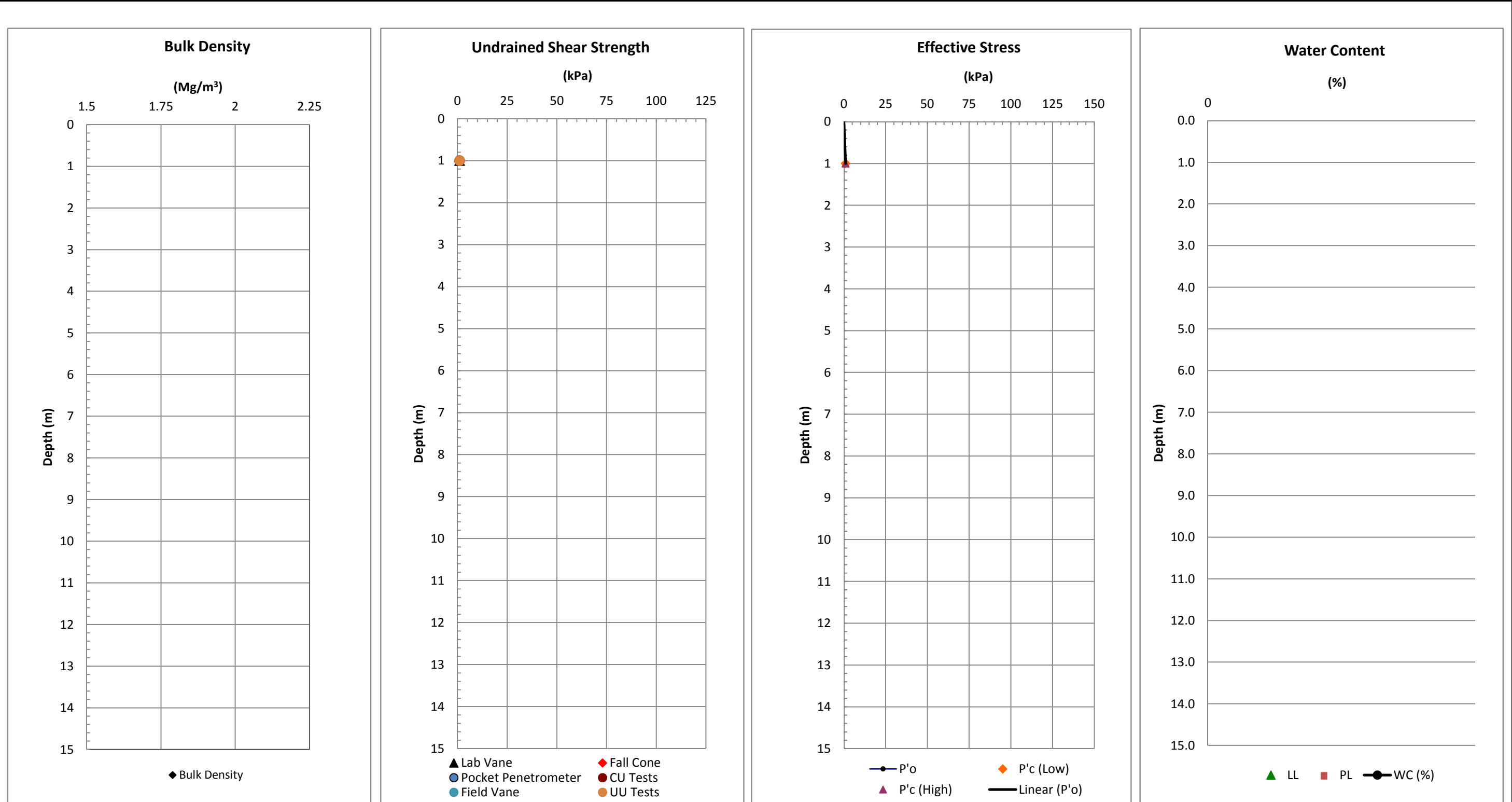


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Figure C.3

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Figure C.3

10033 Beaufort Data