DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. :DMT-5
In-Situ Soil Testing, L.C. Page 1-A
JOB FILE: IDE FILE NO. : 2023-80
LOCATION: Rural Hall, North Carolina
SNDG.BY : Roger Failmezger, P.E., F. ASCE, D.GE SNDG. DATE: 11/2/23
ANAL.BY : Roger Failmezger, P.E., F. ASCE, D. GE ANAL. DATE: 11/3/23

ANALYSIS PARAMETERS: LO RANGE = 9.50 BARS ROD DIAM. = 3.6 CM BL.THICK. = 15.00 MM SU FACTOR = 1
SURF.ELEV. = 286.5 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 4.4 CM BL.WIDTH = 96.00 MM PHI FACTOR = 1
WATER DEPTH = 12.8 M HI GAGE 0 = 0.00 BARS LIN.ROD WT. = 6.5 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1
SP.GR.WATER = 1.0 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.5 DELTA-B = 0.25 BARS M FACTOR = 1
MAX SU ID = 0.6 SU OPTION = 0 MIN PHI ID = 1.2 OCR OPTION = 0 K0 FACTOR = 1

UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
0.20	286.3	770	2.22	5.50		0.13	0.25	9.50	0.00	0.00	0.00	2.21	5.25		0.000	1.70	0.030
0.40	286.1	840	2.23	5.70		0.13	0.25	9.50	0.00	0.00	0.00	2.21	5.45		0.000	1.70	0.063
0.60	285.9	610	1.79	4.93		0.13	0.25	9.50	0.00	0.00	0.00	1.78	4.68		0.000	1.70	0.097
0.80	285.7	480	1.88	4.72		0.13	0.25	9.50	0.00	0.00	0.00	1.89	4.47		0.000	1.70	0.130
1.00	285.5	510	1.26	3.82		0.13	0.25	9.50	0.00	0.00	0.00	1.28	3.57		0.000	1.70	0.163
1.20	285.3	470	1.46	3.58		0.13	0.25	9.50	0.00	0.00	0.00	1.50	3.33		0.000	1.70	0.197
1.40	285.1	470	1.38	3.48		0.13	0.25	9.50	0.00	0.00	0.00	1.42	3.23		0.000	1.60	0.229
1.60	284.9	490	1.38	3.60		0.13	0.25	9.50	0.00	0.00	0.00	1.42	3.35		0.000	1.70	0.262
1.80	284.7	490	1.35	3.30		0.13	0.25	9.50	0.00	0.00	0.00	1.40	3.05		0.000	1.60	0.294
2.00	284.5	550	1.05	3.35		0.13	0.25	9.50	0.00	0.00	0.00	1.08	3.10		0.000	1.70	0.326
2.20	284.3	560	1.61	3.93		0.13	0.25	9.50	0.00	0.00	0.00	1.64	3.68		0.000	1.70	0.360
2.40	284.1	600	1.61	4.14		0.13	0.25	9.50	0.00	0.00	0.00	1.63	3.89		0.000	1.70	0.393
2.60	283.9	650	1.51	4.34		0.13	0.25	9.50	0.00	0.00	0.00	1.52	4.09		0.000	1.70	0.426
2.80	283.7	650	1.70	4.71		0.13	0.25	9.50	0.00	0.00	0.00	1.70	4.46		0.000	1.70	0.460
3.00	283.5	660	1.80	4.51		0.13	0.25	9.50	0.00	0.00	0.00	1.81	4.26		0.000	1.70	0.493
3.20	283.3	690	1.93	4.54		0.13	0.25	9.50	0.00	0.00	0.00	1.95	4.29		0.000	1.70	0.527
3.40	283.1	730	2.01	5.36		0.13	0.25	9.50	0.00	0.00	0.00	1.99	5.11		0.000	1.70	0.560
3.60	282.9	730	2.03	4.97		0.13	0.25	9.50	0.00	0.00	0.00	2.03	4.72		0.000	1.70	0.593
3.80	282.7	750	2.21	5.17		0.13	0.25	9.50	0.00	0.00	0.00	2.21	4.92		0.000	1.70	0.627
4.00	282.5	750	2.13	5.21		0.13	0.25	9.50	0.00	0.00	0.00	2.13	4.96		0.000	1.70	0.660
4.20	282.3	750	2.07	4.84		0.13	0.25	9.50	0.00	0.00	0.00	2.08	4.59		0.000	1.70	0.693
4.40	282.1	740	1.88	4.56		0.13	0.25	9.50	0.00	0.00	0.00	1.90	4.31		0.000	1.70	0.727
4.60	281.9	770	1.71	4.28		0.13	0.25	9.50	0.00	0.00	0.00	1.73	4.03		0.000	1.70	0.760
4.80	281.7	780	1.94	4.41		0.13	0.25	9.50	0.00	0.00	0.00	1.97	4.16		0.000	1.70	0.793
5.00	281.5	750	1.70	4.16		0.13	0.25	9.50	0.00	0.00	0.00	1.73	3.91		0.000	1.70	0.827
5.20	281.3	800	1.99	4.42		0.13	0.25	9.50	0.00	0.00	0.00	2.02	4.17		0.000	1.70	0.860
5.40	281.1	800	2.01	4.42		0.13	0.25	9.50	0.00	0.00	0.00	2.04	4.17		0.000	1.70	0.894
5.60	280.9	860	2.19	5.17		0.13	0.25	9.50	0.00	0.00	0.00	2.19	4.92		0.000	1.70	0.927
5.80	280.7	900	2.25	5.14		0.13	0.25	9.50	0.00	0.00	0.00	2.25	4.89		0.000	1.70	0.960
6.00	280.5	900	2.28	5.37		0.13	0.25	9.50	0.00	0.00	0.00	2.27	5.12		0.000	1.70	0.994
6.20	280.3	950	2.69	5.81		0.13	0.25	9.50	0.00	0.00	0.00	2.68	5.56		0.000	1.70	1.027
6.40	280.1	1000	2.97	6.46		0.13	0.25	9.50	0.00	0.00	0.00	2.94	6.21		0.000	1.80	1.061
6.60	279.9	1040	3.15	6.64		0.13	0.25	9.50	0.00	0.00	0.00	3.12	6.39		0.000	1.80	1.097
6.80	279.7	1100	2.87	6.87		0.13	0.25	9.50	0.00	0.00	0.00	2.82	6.62		0.000	1.80	1.132
7.00	279.5	1140	3.24	7.28		0.13	0.25	9.50	0.00	0.00	0.00	3.19	7.03		0.000	1.80	1.167
7.20	279.3	1240	2.68	7.45		0.13	0.25	9.50	0.00	0.00	0.00	2.59	7.20		0.000	1.80	1.203
7.40	279.1	1350	2.97	7.36		0.13	0.25	9.50	0.00	0.00	0.00	2.90	7.11		0.000	1.80	1.238
7.60	278.9	1130	3.51	8.01		0.13	0.25	9.50	0.00	0.00	0.00	3.43	7.76		0.000	1.80	1.273
7.80	278.7	1540	2.52	7.47		0.13	0.25	9.50	0.00	0.00	0.00	2.42	7.22		0.000	1.90	1.310
8.00	278.5	1630	3.49	8.55		0.13	0.25	9.50	0.00	0.00	0.00	3.39	8.30		0.000	1.80	1.346
8.20	278.3	1680	3.27	8.53		0.13	0.25	9.50	0.00	0.00	0.00	3.16	8.28		0.000	1.80	1.381
8.40	278.1	1610	3.43	8.49		0.13	0.25	9.50	0.00	0.00	0.00	3.33	8.24		0.000	1.80	1.417
8.60	277.9	1570	3.54	8.47		0.13	0.25	9.50	0.00	0.00	0.00	3.44	8.22		0.000	1.80	1.452
8.80	277.7	1570	3.57	8.68		0.13	0.25	9.50	0.00	0.00	0.00	3.46	8.43		0.000	1.80	1.487
9.00	277.5	1650	4.23	9.76		0.13	0.25	9.50	0.00	0.00	0.00	4.10	9.51		0.000	1.80	1.523
9.20	277.3	1740	4.04	9.48		0.13	0.25	9.50	0.00	0.00	0.00	3.92	9.23		0.000	1.80	1.558
9.40	277.1	1690	3.71	9.06		0.13	0.25	9.50	0.00	0.00	0.00	3.59	8.81		0.000	1.80	1.593
9.60	276.9	1900	3.17	9.34		0.13	0.25	9.50	0.00	0.00	0.00	3.01	9.09		0.000	1.90	1.630
9.80	276.7	1920	4.62	10.51		0.13	0.25	9.50	0.00	0.00	0.00	4.47	10.26		0.000	1.80	1.666
10.00	276.5	1970	4.63	10.82		0.13	0.25	9.50	0.00	0.00	0.00	4.47	10.57		0.000	1.80	1.701
10.20	276.3	1980	4.80	10.82		0.13	0.25	9.50	0.00	0.00	0.00	4.65	10.57		0.000	1.80	1.737
10.40	276.1	1830	5.28	11.14		0.13	0.25	9.50	0.00	0.00	0.00	5.14	10.89		0.000	1.80	1.772
10.60	275.9	1760	4.55	10.16		0.13	0.25	9.50	0.00	0.00	0.00	4.42	9.91		0.000	1.80	1.807
10.80	275.7	2020	4.81	10.83		0.13	0.25	9.50	0.00	0.00	0.00	4.66	10.58		0.000	1.80	1.843
11.00	275.5	2050	6.37	13.14		0.13	0.25	9.50	0.00	0.00	0.00	6.18	12.89		0.000	1.95	1.879
11.20	275.3	2110	5.53	11.93		0.13	0.25	9.50	0.00	0.00	0.00	5.36	11.68		0.000	1.95	1.918
11.40	275.1	2130	6.14	13.10		0.13	0.25	9.50	0.00	0.00	0.00	5.94	12.85		0.000	1.95	1.956
11.60	274.9	2150	5.88	12.42		0.13	0.25	9.50	0.00	0.00	0.00	5.70	12.17		0.000	1.95	1.994
11.80	274.7	2210	5.70	12.34		0.13	0.25	9.50	0.00	0.00	0.00	5.52	12.09		0.000	1.95	2.032
12.00	274.5	2230	5.76	12.57		0.13	0.25	9.50	0.00	0.00	0.00	5.57	12.32		0.000	1.95	2.071
12.20	274.3	2300	6.24	13.48		0.13	0.25	9.50	0.00	0.00	0.00	6.03	13.23		0.000	1.95	2.109
12.40	274.1	2250	5.84	12.72		0.13	0.25	9.50	0.00	0.00	0.00	5.65	12.47		0.000	1.95	2.147

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. :DMT-5
In-Situ Soil Testing, L.C. Page 1-B
JOB FILE: IDE FILE NO. : 2023-80
LOCATION: Rural Hall, North Carolina
SNDG.BY : Roger Failmezger, P.E., F. ASCE, D.GE SNDG. DATE: 11/2/23
ANAL.BY : Roger Failmezger, P.E., F. ASCE, D. GE ANAL. DATE: 11/3/23

ANALYSIS PARAMETERS: LO RANGE = 9.50 BARS ROD DIAM. = 3.6 CM BL.THICK. = 15.00 MM SU FACTOR = 1
SURF.ELEV. = 286.5 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 4.4 CM BL.WIDTH = 96.00 MM PHI FACTOR = 1
WATER DEPTH = 12.8 M HI GAGE 0 = 0.00 BARS LIN.ROD WT. = 6.5 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1
SP.GR.WATER = 1.0 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.5 DELTA-B = 0.25 BARS M FACTOR = 1
MAX SU ID = 0.6 SU OPTION = 0 MIN PHI ID = 1.2 OCR OPTION = 0 K0 FACTOR = 1

UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	K0	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
0.20	286.3	73.50	1.38		106									464	SANDY SILT
0.40	286.1	34.81	1.47		113	4.16		22.8	43.8	0.11	39.0	7.53	118.9	414	SANDY SILT
0.60	285.9	18.42	1.63		101	2.32		16.6	40.6	0.16	36.0	3.73	38.6	310	SANDY SILT
0.80	285.7	14.50	1.37		90	1.96		11.5	37.0	0.21	32.5	3.58	27.5	256	SANDY SILT
1.00	285.5	7.84	1.79		79	1.10		15.6	38.9	0.27	35.1	1.34	8.2	180	SANDY SILT
1.20	285.3	7.64	1.22		63	1.14		13.3	36.7	0.31	32.8	1.68	8.5	142	SANDY SILT
1.40	285.1	6.21	1.27		63	0.98		13.8	36.2	0.36	32.7	1.39	6.1	127	SANDY SILT
1.60	284.9	5.42	1.36		67	0.89		14.8	36.0	0.42	32.7	1.28	4.9	128	SANDY SILT
1.80	284.7	4.77	1.18		57	1.12						1.14	3.9	101	SILT
2.00	284.5	3.32	1.86		70	0.61		19.0	36.9	0.52	34.0	0.73	2.2	102	SILTY SAND
2.20	284.3	4.57	1.24		71	0.81		17.0	35.0	0.57	32.1	1.40	3.9	122	SANDY SILT
2.40	284.1	4.15	1.38		78	0.76		18.8	35.2	0.62	32.5	1.32	3.3	129	SANDY SILT
2.60	283.9	3.56	1.70		89	0.67		21.5	35.7	0.68	33.2	1.12	2.6	135	SANDY SILT
2.80	283.7	3.69	1.63		96	0.71		20.8	34.9	0.72	32.5	1.31	2.9	148	SANDY SILT
3.00	283.5	3.68	1.35		85	0.71		20.9	34.4	0.77	32.1	1.43	2.9	129	SANDY SILT
3.20	283.3	3.70	1.20		81	0.72		21.6	34.2	0.82	32.0	1.55	2.9	124	SANDY SILT
3.40	283.1	3.56	1.57		108	0.70		23.1	34.3	0.88	32.2	1.56	2.8	163	SANDY SILT
3.60	282.9	3.42	1.32		93	0.70		23.1	33.9	0.92	31.9	1.59	2.7	135	SANDY SILT
3.80	282.7	3.53	1.23		94	0.72		23.3	33.6	0.97	31.6	1.77	2.8	139	SANDY SILT
4.00	282.5	3.22	1.33		98	0.68		23.8	33.4	1.02	31.6	1.66	2.5	137	SANDY SILT
4.20	282.3	3.00	1.21		87	0.66		24.1	33.2	1.07	31.5	1.61	2.3	114	SANDY SILT
4.40	282.1	2.61	1.27		84	0.61		24.6	33.1	1.12	31.5	1.43	2.0	99	SANDY SILT
4.60	281.9	2.28	1.33		80	0.57		26.6	33.5	1.18	31.9	1.26	1.7	84	SANDY SILT
4.80	281.7	2.48	1.12		76	0.67						1.11	1.4	85	SILT
5.00	281.5	2.09	1.27		76	0.56		26.1	32.7	1.27	31.3	1.29	1.6	73	SANDY SILT
5.20	281.3	2.35	1.07		75	0.63						1.10	1.3	79	SILT
5.40	281.1	2.28	1.05		74	0.62						1.10	1.2	76	SILT
5.60	280.9	2.36	1.25		95	0.60		28.9	32.6	1.43	31.3	1.66	1.8	102	SANDY SILT
5.80	280.7	2.35	1.17		91	0.63						1.23	1.3	98	SILT
6.00	280.5	2.29	1.25		99	0.59		30.4	32.4	1.53	31.3	1.73	1.7	104	SANDY SILT
6.20	280.3	2.61	1.07		100	0.70						1.56	1.5	116	SILT
6.40	280.1	2.77	1.11		113	0.74						1.77	1.7	139	SILT
6.60	279.9	2.85	1.05		113	0.75						1.90	1.7	142	SILT
6.80	279.7	2.49	1.35		132	0.61		36.5	32.8	1.75	32.0	2.13	1.9	151	SANDY SILT
7.00	279.5	2.73	1.21		133	0.64		36.8	32.5	1.80	31.7	2.48	2.1	163	SANDY SILT
7.20	279.3	2.15	1.78		160	0.55		43.3	33.7	1.87	33.0	1.85	1.5	167	SANDY SILT
7.40	279.1	2.34	1.45		146	0.56		46.5	34.0	1.93	33.3	2.07	1.7	160	SANDY SILT
7.60	278.9	2.70	1.26		150	0.66		35.8	31.7	1.94	31.0	2.76	2.2	182	SANDY SILT
7.80	278.7	1.85	1.98		167	0.48		56.6	35.2	2.06	34.7	1.59	1.2	153	SILTY SAND
8.00	278.5	2.52	1.45		171	0.57		56.0	34.7	2.11	34.2	2.36	1.8	198	SANDY SILT
8.20	278.3	2.28	1.62		178	0.54		59.2	35.0	2.17	34.6	2.13	1.5	193	SANDY SILT
8.40	278.1	2.35	1.48		171	0.56		55.7	34.3	2.22	33.9	2.34	1.6	187	SANDY SILT
8.60	277.9	2.37	1.39		166	0.57		53.8	33.9	2.26	33.5	2.47	1.7	182	SANDY SILT
8.80	277.7	2.33	1.43		172	0.57		53.8	33.7	2.31	33.4	2.50	1.7	187	SANDY SILT
9.00	277.5	2.69	1.32		188	0.62		54.4	33.5	2.36	33.2	3.06	2.0	228	SANDY SILT
9.20	277.3	2.51	1.36		184	0.59		58.9	34.0	2.43	33.7	2.83	1.8	213	SANDY SILT
9.40	277.1	2.25	1.45		181	0.56		58.4	33.8	2.48	33.6	2.57	1.6	191	SANDY SILT
9.60	276.9	1.85	2.02		211	0.48		69.6	35.1	2.57	35.0	1.98	1.2	195	SILTY SAND
9.80	276.7	2.69	1.29		201	0.60		64.1	34.0	2.60	33.9	3.26	2.0	243	SANDY SILT
10.00	276.5	2.63	1.36		212	0.60		66.2	34.1	2.66	34.1	3.23	1.9	253	SANDY SILT
10.20	276.3	2.68	1.27		205	0.61		65.9	33.9	2.71	33.9	3.40	2.0	248	SANDY SILT
10.40	276.1	2.90	1.12		200	0.76						3.16	1.8	254	SILT
10.60	275.9	2.44	1.24		191	0.60		58.5	32.8	2.79	32.9	3.33	1.8	213	SANDY SILT
10.80	275.7	2.53	1.27		205	0.59		67.9	33.8	2.87	33.9	3.39	1.8	236	SANDY SILT
11.00	275.5	3.29	1.09		233	0.85						4.08	2.2	325	SILT
11.20	275.3	2.79	1.18		219	0.74						3.23	1.7	272	SILT
11.40	275.1	3.04	1.16		240	0.79						3.75	1.9	317	SILT
11.60	274.9	2.86	1.13		224	0.75						3.48	1.7	283	SILT
11.80	274.7	2.71	1.19		228	0.72						3.27	1.6	277	SILT
12.00	274.5	2.69	1.21		234	0.62		73.2	33.4	3.21	33.7	4.17	2.0	283	SANDY SILT
12.20	274.3	2.86	1.20		250	0.75						3.68	1.7	316	SILT
12.40	274.1	2.63	1.21		237	0.61		74.0	33.2	3.32	33.6	4.24	2.0	280	SANDY SILT

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. :DMT-5
In-Situ Soil Testing, L.C. Page 2-A
JOB FILE: IDE FILE NO. : 2023-80
LOCATION: Rural Hall, North Carolina
SNDG.BY : Roger Failmezger, P.E., F. ASCE, D.GE SNDG. DATE: 11/2/23
ANAL.BY : Roger Failmezger, P.E., F. ASCE, D. GE ANAL. DATE: 11/3/23

ANALYSIS PARAMETERS: LO RANGE = 9.50 BARS ROD DIAM. = 3.6 CM BL.THICK. = 15.00 MM SU FACTOR = 1
SURF.ELEV. = 286.5 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 4.4 CM BL.WIDTH = 96.00 MM PHI FACTOR = 1
WATER DEPTH = 12.8 M HI GAGE 0 = 0.00 BARS LIN.ROD WT. = 6.5 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1
SP.GR.WATER = 1.0 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.5 DELTA-B = 0.25 BARS M FACTOR = 1
MAX SU ID = 0.6 SU OPTION = 0 MIN PHI ID = 1.2 OCR OPTION = 0 K0 FACTOR = 1

UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	THRUST (KGF)	A (BAR)	B (BAR)	C (BAR)	DA (BAR)	DB (BAR)	ZMRNG (BAR)	ZMLO (BAR)	ZMHI (BAR)	ZMCAL (BAR)	P0 (BAR)	P1 (BAR)	P2 (BAR)	U0 (BAR)	GAMMA (T/M3)	SVP (BAR)
12.60	273.9	2240	6.31	13.67		0.13	0.25	9.50	0.00	0.00	0.00	6.09	13.42		0.000	1.95	2.186
12.80	273.7	2030	5.96	12.42		0.13	0.25	9.50	0.00	0.00	0.00	5.79	12.17		0.000	1.95	2.224
13.00	273.5	1880	5.56	10.50		0.13	0.25	9.50	0.00	0.00	0.00	5.46	10.25		0.020	1.80	2.241
13.20	273.3	1980	6.15	12.25		0.13	0.25	9.50	0.00	0.00	0.00	5.99	12.00		0.039	1.95	2.258
13.40	273.1	2170	4.39	9.53		0.13	0.25	9.50	0.00	0.00	0.00	4.28	9.28		0.059	1.80	2.275
13.60	272.9	2260	6.27	13.25		0.13	0.25	9.50	0.00	0.00	0.00	6.07	13.00		0.079	1.95	2.293
13.80	272.7	2380	7.10	14.71		0.13	0.25	9.50	0.00	0.00	0.00	6.87	14.46		0.098	1.95	2.311
14.00	272.5	2350	6.81	13.57		0.13	0.25	9.50	0.00	0.00	0.00	6.62	13.32		0.118	1.95	2.330
14.20	272.3	2190	6.49	13.33		0.13	0.25	9.50	0.00	0.00	0.00	6.30	13.08		0.137	1.95	2.348
14.40	272.1	3510	10.14	23.89		0.13	0.25	9.50	0.00	0.00	0.00	9.60	23.64		0.157	2.10	2.369
14.60	271.9	8460	1.99	9.97		0.13	0.25	9.50	0.00	0.00	0.00	1.74	9.72		0.177	1.80	2.387

DILATOMETER DATA LISTING & INTERPRETATION (BASED ON THE 1988 DILATOMETER MANUAL) SNDG. NO. :DMT-5
In-Situ Soil Testing, L.C. Page 2-B
JOB FILE: IDE FILE NO. : 2023-80
LOCATION: Rural Hall, North Carolina
SNDG.BY : Roger Failmezger, P.E., F. ASCE, D.GE SNDG. DATE: 11/2/23
ANAL.BY : Roger Failmezger, P.E., F. ASCE, D. GE ANAL. DATE: 11/3/23

ANALYSIS PARAMETERS: LO RANGE = 9.50 BARS ROD DIAM. = 3.6 CM BL.THICK. = 15.00 MM SU FACTOR = 1
SURF.ELEV. = 286.5 M LO GAGE 0 = 0.00 BARS FR.RED.DIA. = 4.4 CM BL.WIDTH = 96.00 MM PHI FACTOR = 1
WATER DEPTH = 12.8 M HI GAGE 0 = 0.00 BARS LIN.ROD WT. = 6.5 KGF/M DELTA-A = 0.13 BARS OCR FACTOR = 1
SP.GR.WATER = 1.0 CAL GAGE 0 = 0.00 BARS DELTA/PHI = 0.5 DELTA-B = 0.25 BARS M FACTOR = 1
MAX SU ID = 0.6 SU OPTION = 0 MIN PHI ID = 1.2 OCR OPTION = 0 K0 FACTOR = 1

UNIT CONVERSIONS: 1 BAR = 1.019 KGF/CM2 = 100 KPA = 1.044 TSF = 14.51 PSI 1 M = 3.2808 FT

Z (M)	ELEV (M)	KD	ID	UD	ED (BAR)	K0	SU (BAR)	QD (BAR)	PHI (DEG)	SIGFF (BAR)	PHIO (DEG)	PC (BAR)	OCR	M (BAR)	SOIL TYPE
12.60	273.9	2.79	1.20		254	0.64		71.9	32.8	3.37	33.2	4.70	2.1	316	SANDY SILT
12.80	273.7	2.60	1.10		222	0.70						3.35	1.5	258	SILT
13.00	273.5	2.43	0.88		166	0.65						3.03	1.4	179	CLAYEY SILT
13.20	273.3	2.64	1.01		208	0.70						3.48	1.5	244	SILT
13.40	273.1	1.86	1.18		173	0.51						2.03	0.9	147	SILT
13.60	272.9	2.61	1.16		240	0.70						3.48	1.5	282	SILT
13.80	272.7	2.93	1.12		263	0.77						4.19	1.8	338	SILT
14.00	272.5	2.79	1.03		232	0.74						3.92	1.7	285	SILT
14.20	272.3	2.62	1.10		235	0.70						3.58	1.5	276	SILT
14.40	272.1	3.99	1.49		487	0.74		108.4	34.9	3.72	35.4	7.57	3.2	785	SANDY SILT
14.60	271.9	0.65	5.10		277									235	SAND