

Date 5/18/2012
Project ID 25 ft FILL

Inputs

Units E
Embankment Shape RE
width B = 100 ft
Length L = 200 ft
D = 0 ft

GWT 15 ft

Max. Depth 80.0 ft
FILL Height 25.0 ft
Unit weight 120.0 (lb/ft^3)

Results

Applied q = 3000.0 lb/ft^2
Tot. Sett.= 6.45 in

Depth to Soil Layer		Compr. Ratio	lecompr. Rati	OC. Margin	Unit weight	Dep. B.Emb.	o.c.+eff.str.	Eff. Stress	Embnk.Str.	Emb+Eff.Str	Strain	Indiv. Sett.	Tot. Sett.	
Top	Bottom	Cc/(1+e)	Cr/(1+e)	sigma m'	gamma	zf	sigma c'	sigma zo'	delta sigma	sigma zf'	strain	delta	Tot. Sett	
(ft)	(ft)			(lb/ft^2)	(lb/ft^3)	(ft)	(lb/ft^2)	(lb/ft^2)	(lb/ft^2)	(lb/ft^2)	(%)	(in)	(in)	
Embank Bott.	0.00	0.00			120.0									
	0.00	0.50	0.010	0.005	4000	128.0	0.25	4032	32.00	3000.00	3032	0.988	0.059	0.059
	0.50	1.00	0.010	0.005	4000	128.0	0.75	4096	96.00	3000.00	3095.995	0.754	0.045	0.105
	1.00	1.50	0.010	0.005	4000	128.0	1.25	4160	160.00	2999.98	3159.979	0.648	0.039	0.143
	1.50	2.00	0.010	0.005	4000	128.0	1.75	4224	224.00	2999.94	3223.942	0.579	0.035	0.178
	2.00	2.50	0.010	0.005	4000	128.0	2.25	4288	288.00	2999.88	3287.877	0.529	0.032	0.210
	2.50	3.00	0.010	0.005	4000	128.0	2.75	4352	352.00	2999.78	3351.776	0.489	0.029	0.239
	3.00	3.50	0.010	0.005	4000	128.0	3.25	4416	416.00	2999.63	3415.63	0.457	0.027	0.267
	3.50	4.00	0.010	0.005	4000	128.0	3.75	4480	480.00	2999.43	3479.433	0.430	0.026	0.292
	4.00	4.50	0.010	0.005	4000	128.0	4.25	4544	544.00	2999.18	3543.176	0.407	0.024	0.317
	4.50	5.00	0.010	0.005	4000	128.0	4.75	4608	608.00	2998.85	3606.852	0.387	0.023	0.340
	5.00	5.50	0.010	0.005	4000	128.0	5.25	4672	672.00	2998.45	3670.454	0.369	0.022	0.362
	5.50	6.00	0.010	0.005	4000	128.0	5.75	4736	736.00	2997.97	3733.974	0.353	0.021	0.383
	6.00	6.50	0.010	0.005	4000	128.0	6.25	4800	800.00	2997.41	3797.405	0.338	0.020	0.404
	6.50	7.00	0.010	0.005	4000	128.0	6.75	4864	864.00	2996.74	3860.741	0.325	0.020	0.423
	7.00	7.50	0.010	0.005	4000	128.0	7.25	4928	928.00	2995.97	3923.975	0.313	0.019	0.442
	7.50	8.00	0.010	0.005	4000	128.0	7.75	4992	992.00	2995.10	3987.1	0.302	0.018	0.460
	8.00	8.50	0.010	0.005	4000	128.0	8.25	5056	1056.00	2994.11	4050.11	0.292	0.018	0.478
	8.50	9.00	0.010	0.005	4000	128.0	8.75	5120	1120.00	2993.00	4113	0.282	0.017	0.495
	9.00	9.50	0.010	0.005	4000	128.0	9.25	5184	1184.00	2991.76	4175.763	0.274	0.016	0.511
9.50	10.00	0.010	0.005	4000	128.0	9.75	5248	1248.00	2990.40	4238.395	0.265	0.016	0.527	
10.00	10.50	0.010	0.005	4000	128.0	10.25	5312	1312.00	2988.89	4300.89	0.258	0.015	0.542	

10.50	11.00	0.010	0.005	4000	128.0	10.75	5376	1376.00	2987.24	4363.243	0.251	0.015	0.557
11.00	11.50	0.010	0.005	4000	128.0	11.25	5440	1440.00	2985.45	4425.449	0.244	0.015	0.572
11.50	12.00	0.010	0.005	4000	128.0	11.75	5504	1504.00	2983.50	4487.505	0.237	0.014	0.586
12.00	12.50	0.010	0.005	4000	128.0	12.25	5568	1568.00	2981.41	4549.406	0.231	0.014	0.600
12.50	13.00	0.010	0.005	4000	128.0	12.75	5632	1632.00	2979.15	4611.149	0.226	0.014	0.614
13.00	13.50	0.010	0.005	4000	128.0	13.25	5696	1696.00	2976.73	4672.729	0.220	0.013	0.627
13.50	14.00	0.010	0.005	4000	128.0	13.75	5760	1760.00	2974.15	4734.145	0.215	0.013	0.640
14.00	14.50	0.010	0.005	4000	128.0	14.25	5824	1824.00	2971.39	4795.393	0.210	0.013	0.652
14.50	15.00	0.010	0.005	4000	128.0	14.75	5888	1888.00	2968.47	4856.471	0.205	0.012	0.665
15.00	15.50	0.010	0.005	4000	128.0	15.25	5936.4	1936.40	2965.38	4901.776	0.202	0.012	0.677
15.50	16.00	0.010	0.005	4000	128.0	15.75	5969.2	1969.20	2962.11	4931.306	0.199	0.012	0.689
16.00	16.50	0.010	0.005	4000	128.0	16.25	6002	2002.00	2958.66	4960.66	0.197	0.012	0.701
16.50	17.00	0.010	0.005	4000	128.0	16.75	6034.8	2034.80	2955.04	4989.836	0.195	0.012	0.712
17.00	17.50	0.010	0.005	4000	128.0	17.25	6067.6	2067.60	2951.23	5018.833	0.193	0.012	0.724
17.50	18.00	0.010	0.005	4000	128.0	17.75	6100.4	2100.40	2947.25	5047.651	0.190	0.011	0.735
18.00	18.50	0.010	0.005	4000	128.0	18.25	6133.2	2133.20	2943.09	5076.288	0.188	0.011	0.747
18.50	19.00	0.010	0.005	4000	128.0	18.75	6166	2166.00	2938.75	5104.745	0.186	0.011	0.758
19.00	19.50	0.010	0.005	4000	128.0	19.25	6198.8	2198.80	2934.22	5133.021	0.184	0.011	0.769
19.50	20.00	0.010	0.005	4000	128.0	19.75	6231.6	2231.60	2929.52	5161.117	0.182	0.011	0.780
20.00	20.50	0.010	0.005	4000	128.0	20.25	6264.4	2264.40	2924.63	5189.032	0.180	0.011	0.790
20.50	21.00	0.010	0.005	4000	128.0	20.75	6297.2	2297.20	2919.57	5216.768	0.178	0.011	0.801
21.00	21.50	0.010	0.005	4000	128.0	21.25	6330	2330.00	2914.32	5244.325	0.176	0.011	0.812
21.50	22.00	0.010	0.005	4000	128.0	21.75	6362.8	2362.80	2908.90	5271.705	0.174	0.010	0.822
22.00	22.50	0.010	0.005	4000	128.0	22.25	6395.6	2395.60	2903.31	5298.908	0.172	0.010	0.833
22.50	23.00	0.010	0.005	4000	128.0	22.75	6428.4	2428.40	2897.54	5325.936	0.171	0.010	0.843
23.00	23.50	0.010	0.005	4000	128.0	23.25	6461.2	2461.20	2891.59	5352.792	0.169	0.010	0.853
23.50	24.00	0.010	0.005	4000	128.0	23.75	6494	2494.00	2885.48	5379.475	0.167	0.010	0.863
24.00	24.50	0.010	0.005	4000	128.0	24.25	6526.8	2526.80	2879.19	5405.99	0.165	0.010	0.873
24.50	25.00	0.010	0.005	4000	128.0	24.75	6559.6	2559.60	2872.74	5432.337	0.163	0.010	0.883
25.00	25.50	0.010	0.005	4000	128.0	25.25	6592.4	2592.40	2866.12	5458.519	0.162	0.010	0.892
25.50	26.00	0.010	0.005	4000	128.0	25.75	6625.2	2625.20	2859.34	5484.539	0.160	0.010	0.902
26.00	26.50	0.010	0.005	4000	128.0	26.25	6658	2658.00	2852.40	5510.398	0.158	0.009	0.911
26.50	27.00	0.010	0.005	4000	128.0	26.75	6690.8	2690.80	2845.30	5536.101	0.157	0.009	0.921
27.00	27.50	0.010	0.005	4000	128.0	27.25	6723.6	2723.60	2838.05	5561.648	0.155	0.009	0.930
27.50	28.00	0.010	0.005	4000	128.0	27.75	6756.4	2756.40	2830.64	5587.044	0.153	0.009	0.939
28.00	28.50	0.010	0.005	4000	128.0	28.25	6789.2	2789.20	2823.09	5612.292	0.152	0.009	0.948
28.50	29.00	0.010	0.005	4000	128.0	28.75	6822	2822.00	2815.39	5637.393	0.150	0.009	0.957
29.00	29.50	0.010	0.005	4000	128.0	29.25	6854.8	2854.80	2807.55	5662.352	0.149	0.009	0.966
29.50	30.00	0.010	0.005	4000	128.0	29.75	6887.6	2887.60	2799.57	5687.172	0.147	0.009	0.975
30.00	32.00	0.120	0.020	500	120.0	31	3371.6	2871.60	2779.03	5650.634	2.831	0.170	1.145
32.00	34.00	0.120	0.020	500	120.0	33	3306.8	2806.80	2744.54	5551.335	2.842	0.171	1.316
34.00	36.00	0.120	0.020	500	120.0	35	3242	2742.00	2708.21	5450.215	2.853	0.171	1.487
36.00	38.00	0.120	0.020	500	120.0	37	3177.2	2677.20	2670.30	5347.496	2.862	0.172	1.658

38.00	40.00	0.120	0.020	500	120.0	39	3112.4	2612.40	2631.00	5243.4	2.870	0.172	1.831
40.00	42.00	0.120	0.020	500	120.0	41	3047.6	2547.60	2590.54	5138.141	2.878	0.173	2.003
42.00	44.00	0.120	0.020	500	120.0	43	2982.8	2482.80	2549.13	5031.926	2.885	0.173	2.176
44.00	46.00	0.120	0.020	500	120.0	45	2918	2418.00	2506.94	4924.945	2.891	0.173	2.350
46.00	48.00	0.120	0.020	500	120.0	47	2853.2	2353.20	2464.18	4817.379	2.897	0.174	2.524
48.00	50.00	0.120	0.020	500	120.0	49	2788.4	2288.40	2421.00	4709.395	2.903	0.174	2.698
50.00	52.00	0.120	0.020	500	120.0	51	2723.6	2223.60	2377.55	4601.146	2.909	0.175	2.872
52.00	54.00	0.120	0.020	500	120.0	53	2658.8	2158.80	2333.97	4492.769	2.915	0.175	3.047
54.00	56.00	0.120	0.020	500	120.0	55	2594	2094.00	2290.39	4384.388	2.921	0.175	3.223
56.00	58.00	0.120	0.020	500	120.0	57	2529.2	2029.20	2246.92	4276.116	2.928	0.176	3.398
58.00	60.00	0.120	0.020	500	120.0	59	2464.4	1964.40	2203.65	4168.049	2.936	0.176	3.574
60.00	62.00	0.120	0.020	500	120.0	61	2399.6	1899.60	2160.68	4060.276	2.944	0.177	3.751
62.00	64.00	0.120	0.020	500	120.0	63	2334.8	1834.80	2118.07	3952.873	2.953	0.177	3.928
64.00	66.00	0.120	0.020	500	120.0	65	2270	1770.00	2075.91	3845.906	2.964	0.178	4.106
66.00	67.00	0.120	0.020	500	120.0	66.5	2236.4	1736.40	2044.60	3781.001	2.956	0.177	4.283
67.00	68.00	0.120	0.020	500	120.0	67.5	2234	1734.00	2023.90	3757.897	2.930	0.176	4.459
68.00	69.00	0.120	0.020	500	120.0	68.5	2231.6	1731.60	2003.33	3734.93	2.904	0.174	4.634
69.00	70.00	0.120	0.020	500	120.0	69.5	2229.2	1729.20	1982.91	3712.107	2.878	0.173	4.806
70.00	71.00	0.120	0.020	500	120.0	70.5	2226.8	1726.80	1962.63	3689.433	2.852	0.171	4.977
71.00	72.00	0.120	0.020	500	120.0	71.5	2224.4	1724.40	1942.51	3666.912	2.826	0.170	5.147
72.00	73.00	0.120	0.020	500	120.0	72.5	2222	1722.00	1922.55	3644.547	2.800	0.168	5.315
73.00	74.00	0.120	0.020	500	120.0	73.5	2219.6	1719.60	1902.74	3622.343	2.774	0.166	5.481
74.00	75.00	0.120	0.020	500	120.0	74.5	2217.2	1717.20	1883.10	3600.302	2.748	0.165	5.646
75.00	76.00	0.120	0.020	500	120.0	75.5	2214.8	1714.80	1863.63	3578.428	2.723	0.163	5.810
76.00	77.00	0.120	0.020	500	120.0	76.5	2212.4	1712.40	1844.32	3556.723	2.697	0.162	5.971
77.00	78.00	0.120	0.020	500	120.0	77.5	2210	1710.00	1825.19	3535.19	2.671	0.160	6.132
78.00	79.00	0.120	0.020	500	120.0	78.5	2207.6	1707.60	1806.23	3513.831	2.645	0.159	6.290
79.00	80.00	0.120	0.020	500	120.0	79.5	2205.2	1705.20	1787.45	3492.646	2.620	0.157	6.448

Tot. Sett 6.45 (in)

