

DMT-calculated vs observed SETTLEMENTS

SCHMERTMANN, 1986 - 16 CASE-HISTORY

Proc. In Situ '86 ASCE Spec. Conf. VIP, Blacksburg, p.303.

No	Location	Structure	Compressible soil	Settlement (mm)			Ratio DMT/meas.
				DMT	**	meas	
1	Tampa	Bridge pier	HOC Clay	*25	b,d	15	1.67
2	Jacksonville	Power Plant	Compacted sand	*15	b,o	14	1.07 (ave.3)
3	Lynn Haven	Factory	Peaty sd.	188	a	185	1.02
4	British Columbia	Test embankment	Peat org. sd.	2030	a	2850	0.71
5a	Fredricton	Surcharge	Sand	*11	a	15	0.73
b	"	3' plate	Sand	*22	a	28	0.79
c	"	building	Quick cl. Silt	*78	a	35	2.23
6a	Ontario	Road embankment	Peat	*300	a,o	275	1.09
b	"	building	Peat	*262	a,o	270	0.97
7	Miami	4' plate	Peat	93	b	71	1.31
8a	Peterborough	Apt. bldg	Sd. & si.	*58	a, o	48	1.21
b	"	Factory		*20	a, o	17	1.18
9	"	Water tank	Si. clay	*30	b,o	31	0.97
10a	Linkoping	2x3 m plate	Si. sand	*9	a,o	6.7	1.34
b	"	1.1x1.3m plate	Si. sand	*4	a,o	3	1.33 -30%
11	Sunne	House	Silt & sand	*10	b,o	8	1.25 +50%

CALCULATED/OBSERVED AVE : 1.18