SU2005442 Camden - 52 St. Albans Road

Heave Prediction using Moisture Content Profile

(Based on B.R.E. Digest 412, February 1996)

TP01/BH01

wf = undesiccated moisture content
wi = Initial desiccated moisture content
Gs = ratio of soil particle density to density of water - ps/pw
*Wd = Layer Water Deficiency = (wf-wi)/(100/(Gs+wi))*H*

Using Control BH data for wf

Depth (mtrs)	Plastic Limit *wp*	Liquid Limit *wl*	Plasticity Index *Ip*	Normalised Ip 10 - 70%	Moisture Content *mc*	Average Moisture Content *wi*	Estimated Equilibrium Moisture Content *wf*	Moisture Deficiency *wf - wi*	Layer Thickness *H*	Heave Potential *Wd* *(mm)*	Heave Wsf - 4	Total Heave *(mm)*
1.00	24	78	54	0.73	28	28.5	24	-4.50	0.50	-37.27	**-9.32**	**13.69mm**
1.50	24	78	54	0.73	29	30	25	-5.00	0.50	-40.74	**-10.19**	
2.00	28	80	52	0.70	31	31	24	-7.00	0.50	-57.98	**-14.50**	
2.50	28	80	52	0.70	31	32	23	-9.00	0.50	-75.80	**-18.95**	
3.00	29	79	50	0.67	33	16.5	23	6.50	0.50	54.75	**13.69**	