Stratum		Bulk unit weight, γ_b (kN/m³)	Drained or undrained?	SPT N	Undrained shear strength, c_u (kN/m²)	Angle of shearing resistance, ϕ' (°)[i]	Undrained Young's modulus, E_u (MN/m²)		Drained Young's modulus, E' (MN/m²)	
							Vertical, E_{uv}	Horizontal, E_{uh}	Vertical, E_v'	Horizontal, E_h'
Made Ground		19	Drained	10	-	25 to 30 (peak = crit)	-	-	10	10
Brickearth		20	Drained[ii]	10	-	28 (peak = crit)	-	-	10	10
River Terrace Deposits		20	Drained	30	-	39 (peak) 35 (crit)	-	-	60	60
Buried Channel Infill		19	Drained[ii]	7	35	30 (peak), 25(crit)	-	-	15	15
London Clay		20	Undrained[iii]	$22 + 1.28z$[ii]	$110 + 6.4z$[iv] (Characteristic) $130 + 7.25z$[iv] (Average)	-	$500c_u$	$500c_u$ ($1000c_u$ for ret wall design)	$400c_u$	$400c_u$ ($750c_u$ for ret wall design)
Lambeth Group	Cohesive	20	Undrained[iii]	100	$110 + 6.4z$[iv]	-	$500c_u$	$500c_u$	$400c_u$	$400c_u$
	Granular	20	Drained			39 (peak) 35 (crit)	-	-	200	200
Thanet Sand Formation		20	Drained	-	-	39 (peak) 35 (crit)	-	-	500	500

i. c' = 0 for all strata in effective stress design ii but check for sensitivity to undrained behaviour under short term loading

ii. but check for sensitivity to undrained behaviour under short term loading

iii. but check for sensitivity to drained behaviour under long term loading iv. z = depth below +6.0mOD

iv. z = depth below +6.0mOD

From

Elevations		
LC	5.5	-28.3
LMGC	-28.3	-39.4
LMGG	-27.7	-46
TS	-46	-56.5
CHK	56.5	