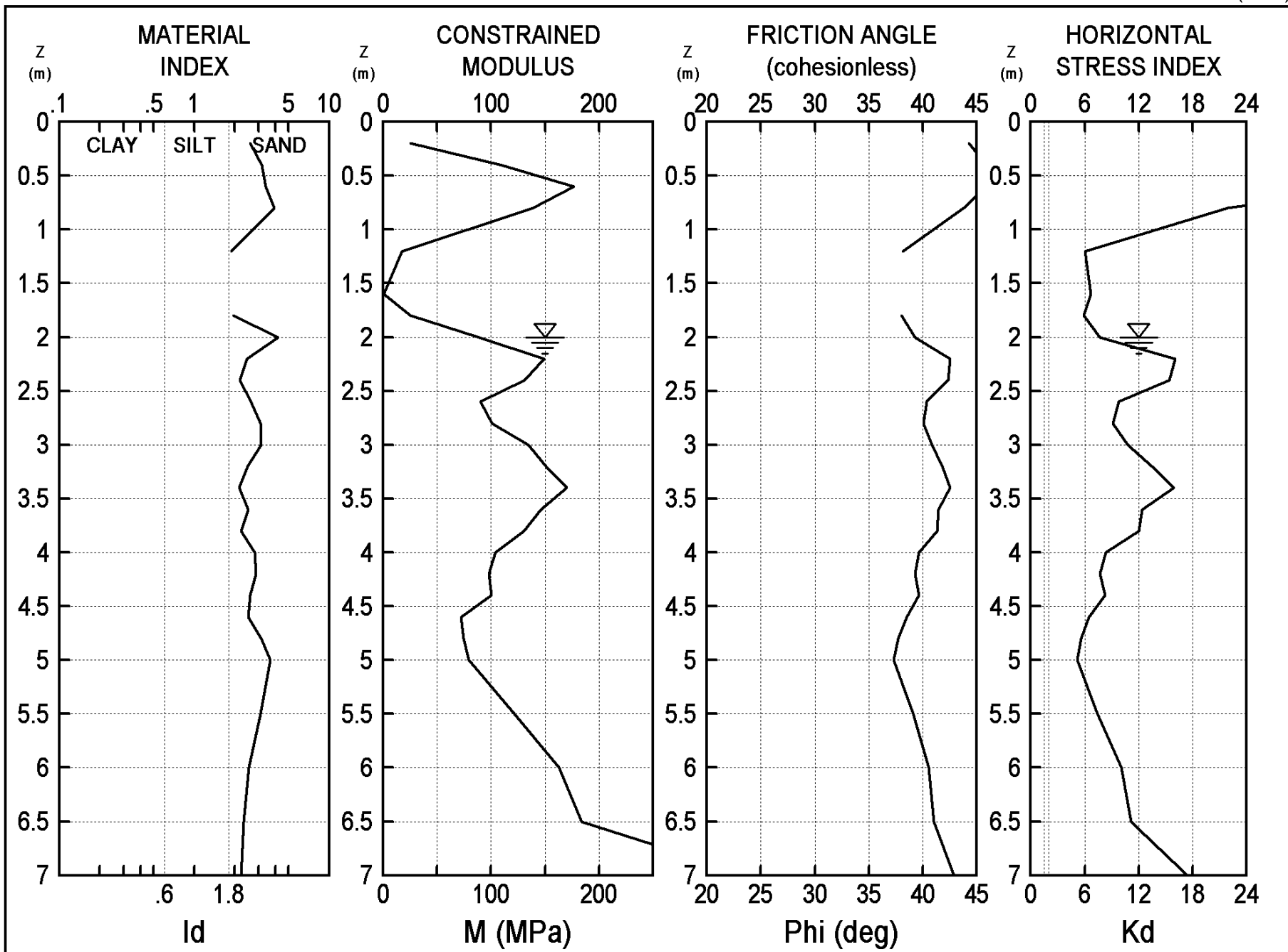
DILATOMETER TEST (D M T)



Insitu Geotech Services (IGS) Golder Associates

Rapid Transit Gold Coast, QLD

INTERPRETED GEOTECHNICAL PARAMETERS

TEST **D09**

6 SEP 2011

D09	LEGEND	INTERPRETED PARAMETERS	SOUNDING PARAMETERS
6 SEP 2011	Z = Depth Below Ground Level Po,P1,P2 = Corrected A,B,C readings Id = Material Index Ed = Dilatometer Modulus Ud = Pore Press. Index = (P2-Uo)/(Po-Uo) Gamma = Bulk unit weight Sigma' = Effective overb. stress Uo = Pore pressure	Phi = Safe floor value of Friction Angle Ko = In situ earth press. coeff. M = Constrained modulus (at Sigma') Cu = Undrained shear strength Ocr = Overconsolidation ratio (OCR = "relative OCR"- generally realistic. If accurate independent OCR available, apply suitable factor)	DeltaA = 14 kPa DeltaB = 50 kPa GammaTop = 17.0 kN/m^3 FactorEd = 34.7 Zm = 0.0 kPa Zabs = 0.0 m Zw = 2.0 m
Insitu Geotech Services (IGS) Golder Associates Rapid Transit Gold Coast, QLD GPS format - GDA			

WaterTable at 2.00 m
Reduction formulae according to Marchetti, ASCE Geot.Jnl.Mar. 1980, Vol.109, 299-321; Phi according to TC16 ISSMGE, 2001

Z (m)	A (kPa)	B (kPa)	C (kPa)	Po (kPa)	P1 (kPa)	P2 (kPa)	Gamma (kN/m^3)	Sigma' (kPa)	Uo (kPa)	Id	Kd	Ed (MPa)	Ud	Ko	Ocr	Phi (Deg)	M (MPa)	Cu (kPa)	D09 DESCRIPTION
0.2	80	350		84	300		16.7	3	0	2.58	24.6	7.5				44	25.2		SILTY SAND
0.4	290	1150		264	1100		18.6	7	0	3.16	39.2	29.0				46	110.0		SILTY SAND
0.6	450	1800		400	1750		19.6	10	0	3.38	38.2	46.9				46	176.6		SAND
0.8	360	1600		315	1550		18.6	14	0	3.92	21.9	42.8				44	138.9		SAND
1.2	130	430		132	380		17.7	22	0	1.87	6.1	8.6				38	17.4		SILTY SAND
1.6	180	250		194	200		13.7	29	0	0.03	6.7	0.2		1.4	6.6		0.5	29	MUD AND/OR PEAT
1.8	190	600		187	550		17.7	32	0	1.95	5.9	12.6				38	25.3		SILTY SAND
2.0	310	1450		270	1400		18.6	35	0	4.18	7.7	39.2				39	89.0		SAND
2.2	650	2100		595	2050		19.6	37	2	2.46	16.0	50.5				43	148.8		SILTY SAND
2.4	650	1950		602	1900		19.6	39	4	2.17	15.4	45.0				42	130.9		SILTY SAND
2.6	440	1500		404	1450		18.6	41	6	2.63	9.7	36.3				40	89.9		SILTY SAND
2.8	440	1650		397	1600		19.6	43	8	3.09	9.1	41.8				40	101.0		SILTY SAND
3.0	550	2050		492	2000		19.6	45	10	3.13	10.8	52.3				41	134.7		SILTY SAND
3.2	700	2250		640	2200		19.6	47	12	2.48	13.5	54.1				42	150.7		SILTY SAND
3.4	850	2500		785	2450		19.6	49	14	2.16	15.9	57.8				43	169.8		SILTY SAND
3.6	700	2250		640	2200		19.6	50	16	2.50	12.4	54.1				41	146.2		SILTY SAND
3.8	700	2100		647	2050		19.6	52	18	2.23	12.0	48.7				41	130.1		SILTY SAND
4.0	520	1800		473	1750		19.6	54	20	2.81	8.3	44.3				40	103.7		SILTY SAND
4.2	500	1750		455	1700		19.6	56	22	2.88	7.7	43.2				39	98.0		SILTY SAND
4.4	550	1800		505	1750		19.6	58	24	2.59	8.2	43.2				40	100.6		SILTY SAND
4.6	450	1450		417	1400		18.6	60	26	2.51	6.5	34.1				38	72.0		SILTY SAND
4.8	410	1500		373	1450		18.6	62	27	3.12	5.6	37.4				38	74.4		SILTY SAND
5.0	400	1600		357	1550		18.6	64	29	3.64	5.1	41.4				37	79.5		SAND
5.5	600	2150		540	2100		19.6	68	34	3.09	7.4	54.1				39	121.2		SILTY SAND
6.0	850	2700		775	2650		19.6	73	39	2.55	10.1	65.1				41	163.0		SILTY SAND
6.5	1000	3000		917	2950		21.1	78	44	2.33	11.2	70.5				41	183.8		SILTY SAND
7.0	1650	4800		1510	4750		21.1	84	49	2.22	17.5	112.4				43	340.4		SILTY SAND