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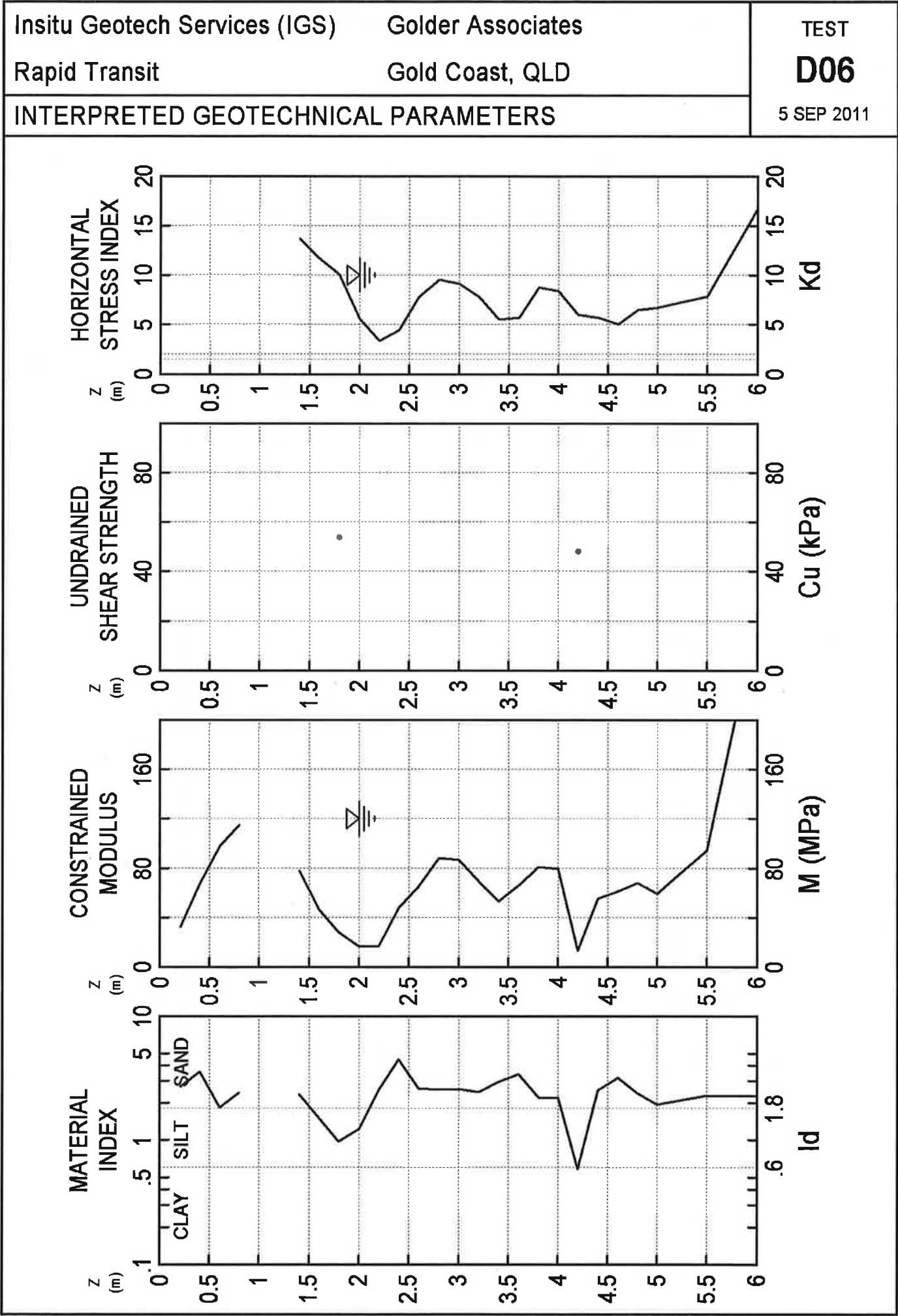
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Insitu Geotech Services (IGS) Golder Associates

Rapid Transit

Gold Coast, QLD

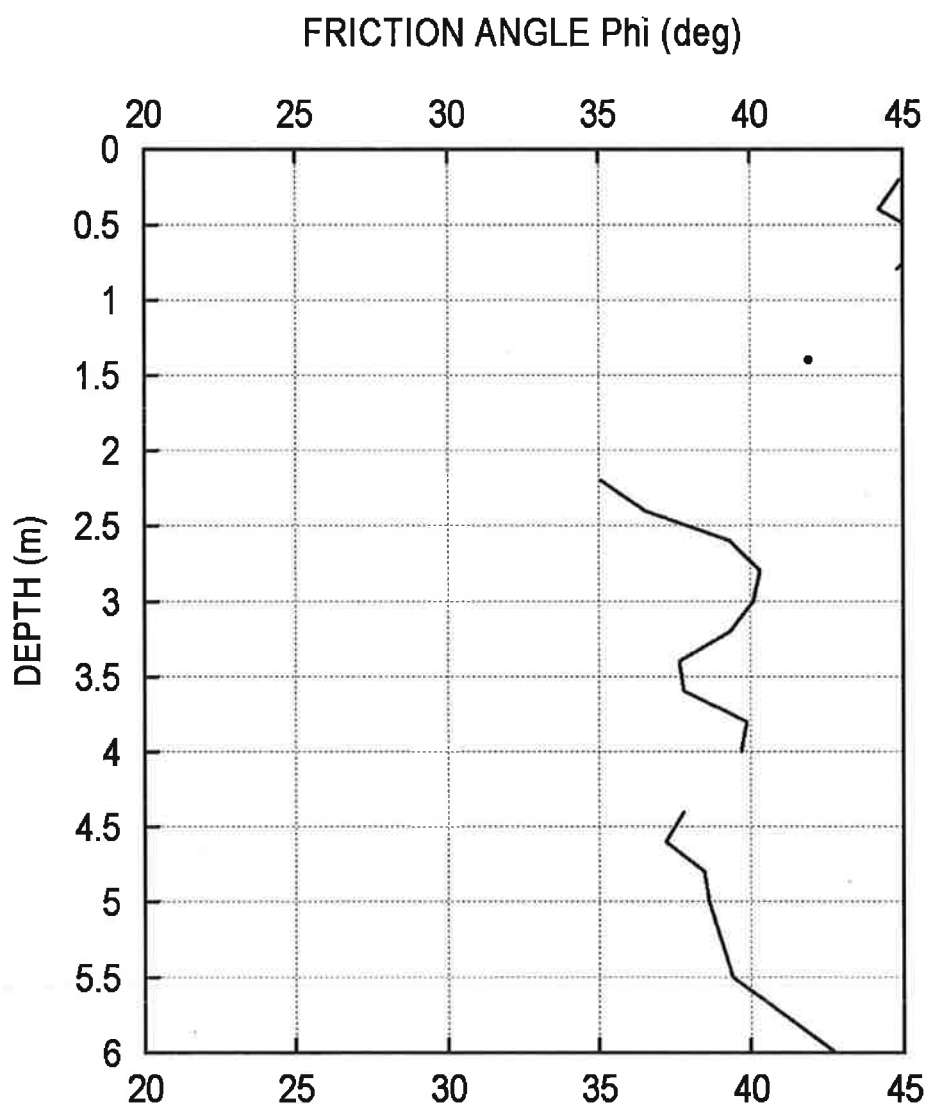
TEST

D06

5 SEP 2011

INTERPRETED GEOTECHNICAL PARAMETERS

DILATOMETER TEST (D M T)



D06 5 SEP 2011 Insitu Geotech Services (IGS) Golder Associates Rapid Transit Gold Coast, QLD GPS format - GDA	LEGEND 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	INTERPRETED PARAMETERS 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)	SOUNDING PARAMETERS DeltaA = 12 kPa DeltaB = 55 kPa GammaTop = 17.0 kN/m^3 FactorEd = 34.7 Zm = 0.0 kPa Zabs = 0.0 m Zw = 2.0 m

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)	D06 DESCRIPTION
0.2	100	420		99	365		16.7	3	0	2.67	29.2	9.2				45	32.4		SILTY SAND
0.4	180	800		164	745		17.7	7	0	3.53	24.4	20.1				44	67.4		SAND
0.6	430	1200		407	1145		18.6	10	0	1.81	39.6	25.6				46	97.4		SILTY SAND
0.8	430	1400		397	1345		18.6	14	0	2.39	28.4	32.9				45	114.7		SILTY SAND
1.4	370	1200		344	1145		18.6	25	0	2.33	13.7	27.8				42	77.7		SILTY SAND
1.6	350	900		338	845		17.7	29	0	1.50	11.7	17.6					46.6		SANDY SILT
1.8	330	700		327	645		17.7	32	0	0.97	10.1	11.0		1.8	12.5		27.7	54	SILT
2.0	200	500		200	445		16.7	36	0	1.22	5.6	8.5					16.3		SANDY SILT
2.2	130	500		127	445		17.7	37	2	2.55	3.3	11.0				35	16.7		SILTY SAND
2.4	200	1000		175	945		18.6	39	4	4.49	4.4	26.7				37	47.8		SAND
2.6	350	1200		323	1145		18.6	41	6	2.59	7.8	28.5				39	65.0		SILTY SAND
2.8	450	1500		413	1445		18.6	42	8	2.55	9.5	35.8				40	88.0		SILTY SAND
3.0	450	1500		413	1445		18.6	44	10	2.56	9.1	35.8				40	86.6		SILTY SAND
3.2	400	1300		370	1245		18.6	46	12	2.44	7.8	30.4				39	69.0		SILTY SAND
3.4	300	1100		275	1045		18.6	48	14	2.94	5.5	26.7				38	52.8		SILTY SAND
3.6	330	1300		297	1245		18.6	50	16	3.37	5.7	32.9				38	66.1		SAND
3.8	500	1500		465	1445		19.6	51	18	2.19	8.7	34.0				40	80.7		SILTY SAND
4.0	500	1500		465	1445		19.6	53	20	2.20	8.4	34.0				40	79.4		SILTY SAND
4.2	350	600		353	545		16.7	55	22	0.58	6.0	6.7		1.3	5.6		13.2	48	SILTY CLAY
4.4	370	1200		344	1145		18.6	57	24	2.50	5.7	27.8				38	55.3		SILTY SAND
4.6	350	1300		318	1245		18.6	58	26	3.17	5.0	32.2				37	61.1		SILTY SAND
4.8	450	1400		418	1345		18.6	60	27	2.37	6.5	32.2				38	67.8		SILTY SAND
5.0	470	1300		444	1245		18.6	62	29	1.93	6.7	27.8				39	59.1		SILTY SAND
5.5	600	1800		555	1745		19.6	66	34	2.28	7.9	41.3				39	94.1		SILTY SAND
6.0	1350	4000		1233	3945		21.1	71	39	2.27	16.8	94.1				43	281.3		SILTY SAND