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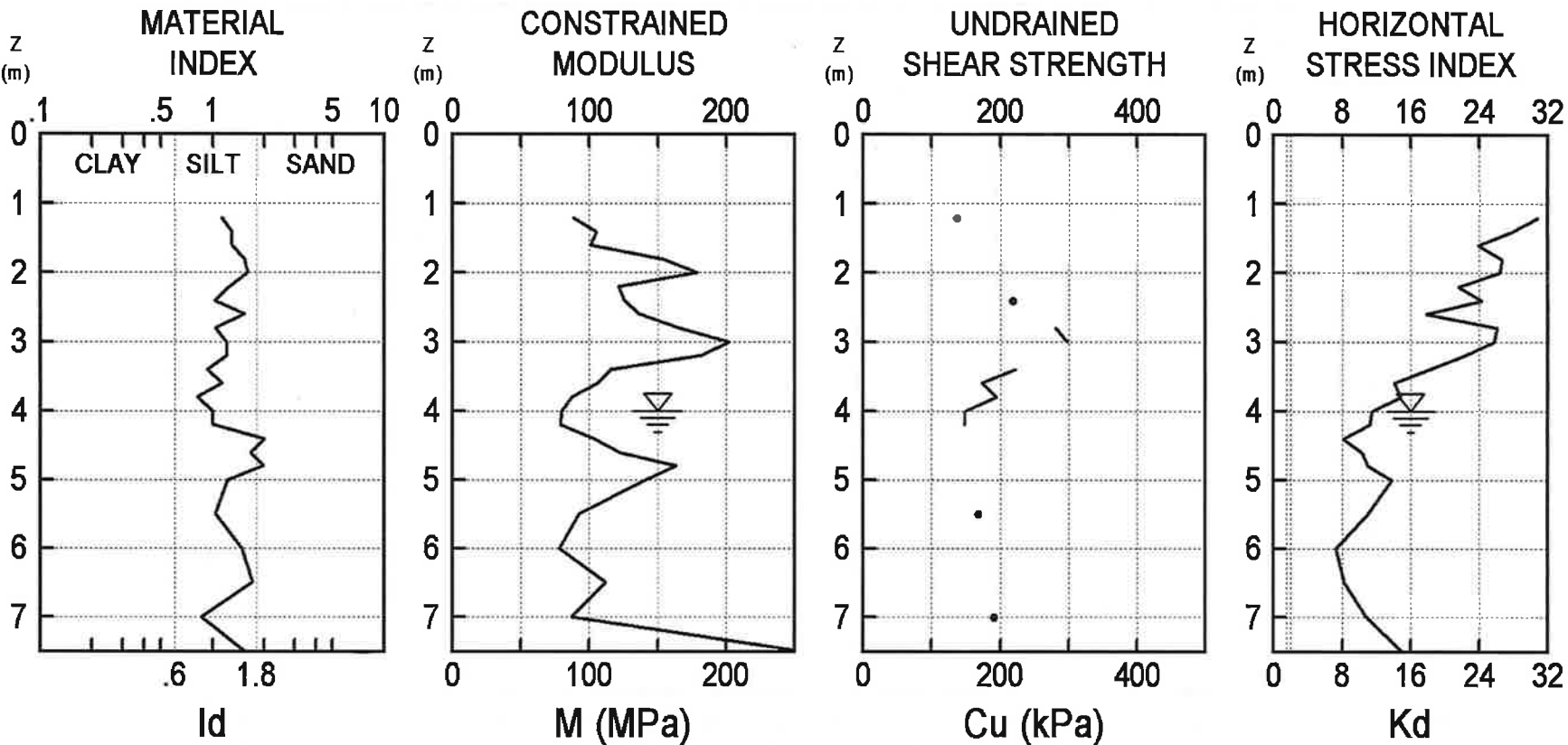
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Insitu Geotech Services (IGS)		Golder Associates
Rapid Transit		
INTERPRETED GEOTECHNICAL PARAMETERS		Gold Coast, QLD
		TEST D05 31 AUG 2011



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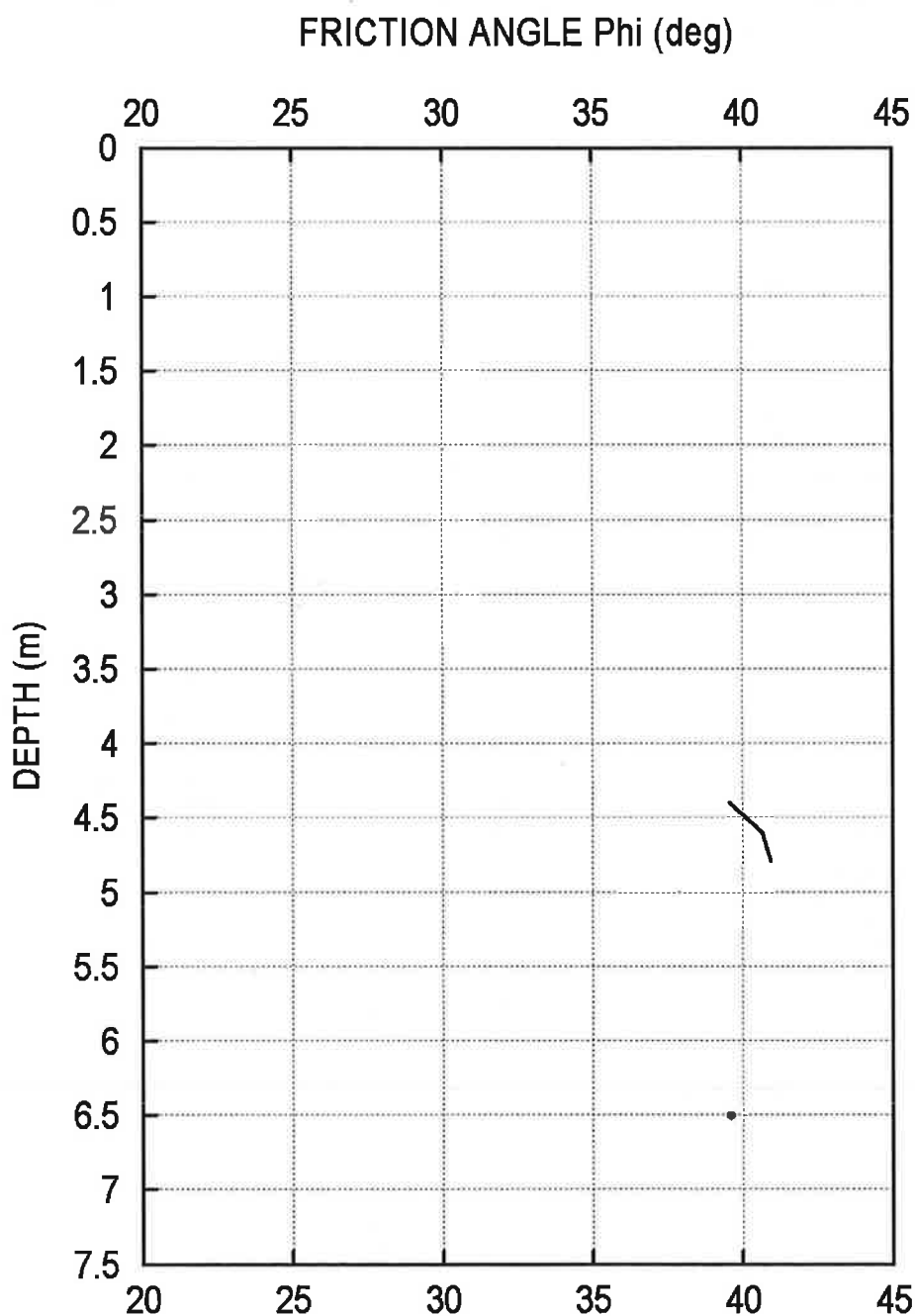
TEST

D05

INTERPRETED GEOTECHNICAL PARAMETERS

31 AUG 2011

DILATOMETER TEST (D M T)



D05 31 AUG 2011 Insitu Geotech Services (IGS) Golder Associates Rapid Transit Gold Coast, QLD	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 = 13 kPa DeltaB = 56 kPa GammaTop = 17.0 kN/m ³ FactorEd = 34.7 Zm = 0.0 kPa Zabs = 0.0 m Zw = 4.0 m

WaterTable at 4.00 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)	D05 DESCRIPTION
1.2	650	1400		629	1344		19.1	20	0	1.14	30.8	24.8		3.5	71.5		88.5	137	SILT
1.4	700	1600		671	1544		19.1	24	0	1.30	27.7	30.3					104.9		SANDY SILT
1.6	700	1600		671	1544		19.1	28	0	1.30	23.9	30.3					100.7		SANDY SILT
1.8	900	2200		851	2144		19.1	32	0	1.52	26.7	44.9					153.8		SANDY SILT
2.0	1000	2500		941	2444		20.6	36	0	1.60	26.4	52.1					178.2		SANDY SILT
2.2	900	2000		861	1944		19.1	40	0	1.26	21.6	37.6					121.4		SANDY SILT
2.4	1100	2200		1061	2144		20.6	44	0	1.02	24.3	37.6		3.1	49.4		125.5	218	SILT
2.6	900	2200		851	2144		19.1	48	0	1.52	17.8	44.9					136.7		SANDY SILT
2.8	1400	2800		1346	2744		20.6	52	0	1.04	26.1	48.5		3.2	55.1		165.3	281	SILT
3.0	1500	3200		1431	3144		20.6	56	0	1.20	25.7	59.4		3.2	53.8		201.7	298	SILT
3.2	1400	3000		1336	2944		20.6	60	0	1.20	22.3	55.8					181.9		SANDY SILT
3.4	1200	2300		1161	2244		20.6	64	0	0.93	18.2	37.6		2.6	31.3		115.1	222	SILT
3.6	1000	2100		961	2044		19.1	68	0	1.13	14.1	37.6		2.3	21.2		106.2	172	SILT
3.8	1100	2000		1071	1944		19.1	72	0	0.81	14.9	30.3		2.3	23.0		87.1	195	SILT
4.0	900	1800		871	1744		19.1	76	0	1.00	11.5	30.3		2.0	15.4		79.7	148	SILT
4.2	900	1800		871	1744		19.1	78	2	1.00	11.2	30.3		2.0	14.7		79.0	147	SILT
4.4	700	2000		651	1944		19.6	79	4	2.00	8.1	44.9				40	103.6		SILTY SAND
4.6	900	2300		846	2244		19.1	81	6	1.66	10.3	48.5				41	122.7		SANDY SILT
4.8	1000	2800		926	2744		21.1	83	8	1.98	11.0	63.1				41	163.5		SILTY SAND
5.0	1250	2700		1194	2644		20.6	86	10	1.22	13.8	50.3					141.3		SANDY SILT
5.5	1050	2100		1014	2044		19.1	91	15	1.03	11.0	35.7		1.9	14.3		92.5	168	SILT
6.0	750	1800		714	1744		19.1	96	20	1.48	7.3	35.7					78.3		SANDY SILT
6.5	900	2300		846	2244		19.1	100	25	1.70	8.2	48.5				40	112.1		SANDY SILT
7.0	1200	2200		1166	2144		20.6	105	29	0.86	10.8	33.9		1.9	14.0		87.4	191	SILT
7.5	1800	4300		1691	4244		20.6	110	34	1.54	15.0	88.6					255.6		SANDY SILT