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GEOTECHNICAL LOG OF EXCAVATION

HOLE NO. : TP20

SHEET : 1 OF 1

JOB NO : C15733

CLIENT : BORDER DISTRICT
PROJECT : 8 MILE INTERSECTION UPGRADE
LOCATION : Ch 800, on control line M003 (on peg).

Co-ords: 4696.995 E
9545.818 N

RL : 484.409m

EXCAVATION										SUBSTANCE				TESTS		ADDITIONAL OBSERVATIONS					
DEPTH	METHOD	SUPPORT	FAST	MEDIUM	SLOW	WATER	LOGGRAPHIC	USC	DESCRIPTION Soil Type: grain size, plasticity, colour structure, minor components.	MOIST	CONDENSISTY	SAMPLES	TYPE	RESULT	Structure and Origin						
0.2									CH SILTY CLAY Brown black becoming black, moist, stiff, high plasticity	M	St				Residual topsoil						
0.4																					
0.6																					
0.9																					
1.0								CH As above, but red orange	M	St		Tube		1.0-1.25m: LL=56.4%, PI=31.2%, LS=15.6% 1.0-1.3m: MC=32.6%, WD=1.88t/m ³ , DD=1.42t/m ³ 1.5m: MC=34.0%							
1.3																					
1.6									XW SANDSTONE Brown, moist, with the properties of a hard, medium plasticity silty clay. Slight fine sand and some fine gravelly patches. Becomes sandier with depth. Easily crumbled in fingers.	M	H				2.0m: MC=31.8% MC=31.0%, WD=1.64t/m ³ , DD=1.26t/m ³ C'=104kPa, o'=28° (undisturbed) MC=34.6%, WD=1.66t/m ³ DD=1.24 t/m ³ C'=15kPa, o'=31° (recompacted) 3.0m: MC=32.4% 3.5m: MC=32.4%, LL=62.6% PI=27.8%, LS=16.2% WPI=2446, WLS=1426						
1.8																					
2.0																					
2.2																					
2.6																					
2.7																					
3.0																					
3.4																					
3.6								Rounded SW basalt pebbles to cobbles in XW sandstone 3.4 - 3.6m depth													
3.8																					
4.0								XW SANDSTONE As above						4.0m: MC=25.8% 4.2m: LL=55.0%, PI=26.8%, LS=15.0% 4.5m: MC=17.6%							
4.5																					
4.6									HW BASALT AGGLOMERATE Grey green, MW basalt corestones from lapilli to bombs, with well developed onion skin weathering. Some green secondary clay minerals. No groundwater encountered						4.2-5.2m: LL=49.2%, PI=21.2%, LS=10.8% 5.0m: MC=17.4%, WD=1.86t/m ³ , DD=1.52t/m ³						
4.8																					
5.0																					
5.2																					
EOH 5.0m																					

- SANDSTONE** Sedimentary rock composed of sand sized particles
- BASALT** Dark coloured, fine grained basic volcanic rock.
- AGGLOMERATE** Pyroclastic deposits containing fragments thrown from volcano during eruption
- LAPILLI** Volcanic fragments from 2 - 64mm
- BOMBS** Volcanic fragments > 64mm

DCP test from 3.7 to 5.2m

Contractor : Gary	Commenced : 24/8/2000	Logged by : J Kleindienst
Rig : Komatsu PC220 (22 tonnes)	Weather : Fine, cold	Checked by :



Plate 36: Site view of TP20



Plate 37: Excavated material from TP20



Plate 38: View inside TP20