GEOTECHNICAL LOG OF EXCAVATION

Main Roads

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	LOG GRAPHIC	USC	DESCRIPTION Soil Type: grain size, plasticity, colour structure, minor components.	MOIST	CONSIST	DENSITY	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/m³, DD=1.42t/m³
1.3																1.5m: MC=34.0%
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/m³, DD=1.26t/m³ C'=104kPa, o'=28° (undisturbed) MC=34.6%, WD=1.66t/m³ DD=1.24 t/m³ 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								XW	SANDSTONE As above							4.0m: MC=25.8% 4.2m: LL=55.0%, PI=26.8%, LS=15.0%
4.0																
4.5																4.5m: MC=17.6%
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.							4.2-5.2m: LL=49.2%, PI=21.2%,, LS=10.8%
4.8																
5.0									No groundwater encountered							5.0m: MC=17.4%, WD=1.86t/m³, DD=1.52t/m³
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 :

Details of abbreviations and basis of description are given in Explanatory Notes.

Plate 36: Site view of TP20

Plate 37: Excavated material from TP20

Plate 38: View inside TP20