

**TABLE 1: SUMMARY OF BASIC SOIL PROPERTIES**

Test Pit	Depth (m)	Material Description	LL	PI	LS	PRA Class	Unified Class	PI Whole	Soil Activity	% Gravel	% Sand	% Silt	% Clay	Moisture Content (%)	% Swell (Weston's method @ 30k Pa)
TP2	0.90	Firm shattered silty CLAY, Fill	41.8	21.8	10.0	A-7-6[12]	CL	16.1	Medium	19.3	19.9	27.4	33.4	23.0	
TP3	1.50	Firm intact sandy & clayey SILT, Residual Diabase	44.7	17.5	8.7	A-7-6[12]	ML/OL	16.8	Medium	0.2	27.1	53.5	19.2	33.7	
TP4	0.3-1.8	GRAVEL & COBBLES in a silty clay matrix, Fill	47.0	21.2	10.0	A-2-6[0]	GC	3.8	Low	75.6	9.6	10.8	4.0	/	
TP5	1.0	Firm shattered & slickensided CLAY, Fill	48.1	23.9	13.3	A-7-6[15]	CL	22.7	Medium	1.2	19.3	67.3	12.2	28.3	
TP5	1.4-2.4	Firm shattered & slickensided clayey SILT Alluvium	52.4	31.4	14.7	A-7-6[18]	CH	29.7	High	1.4	22.1	57.2	19.3		
TP6	1.0	Firm shattered sandy & clayey SILT, Alluvium	35.4	13.4	6.0	A-6[9]	CL	12.8	Medium	0.2	30.4	47.6	21.7	25.1	
TP7	1.0-2.0	Dense intact sandy SILT, Residual Diabase	34.4	11.6	6.0	A-6[6]	CL	10.3	Low	1.4	49.3	37.5	11.8	/	
TP8	0.1-1.0	GRAVEL in a silty clay matrix, Hillwash	46.7	18.9	8.0	A-2-6[1]	GM	6.3	Low	62.4	12.3	20.4	4.9	/	
TP10	0.1-0.6	GRAVEL in a silty matrix, Hillwash	50.0	17.9	8.0	A-2-6[0]	GM	3.1	Low	80.5	5.3	10.4	3.8	/	
TP13	0.4	Firm macro shattered silty CLAY, Alluvium	41.8	21.0	10.0	A-7-6[13]	CL	18.5	Low	5.5	15.9	35.7	42.9	13.9	

**Key to Table 1**

LL Liquid Limit  
 PI Plasticity Index  
 LS Linear Shrinkage  
 GM Grading Modulus  
 N/A Not Active

**TABLE 2: Summary of Material Density Testing**

Test Pit	Depth (m)	Material Description	MDD (kg/m <sup>3</sup> )	OMC (%)	GM	CBR @ 90 % MOD	CBR @ 93 % MOD	CBR @ 95 % MOD	TRH 14 Classification
TP4	0.3-1.8	GRAVEL & COBBLES in a silty clay matrix, Fill	1823	12.4	2.42	19	23	26	G6
TP5	1.4-2.4	Firm shattered & slickensided clayey SILT Alluvium	1609	16.6	0.19	1	1	2	Spoil
TP7	1.0-2.0	Dense intact sandy SILT, Residual Diabase	1866	14.5	0.49	2	3	3	Spoil
TP8	0.1-1.0	GRAVEL in a silty clay matrix, Hillwash	1917	11.2	2.02	14	17	19	G6
TP10	0.1-0.6	GRAVEL in a silty matrix, Hillwash	1829	13.0	2.48	19	21	22	G6

**Key to Table 2**

MDD            Maximum Dry Density (kg/m<sup>3</sup>)  
 OMC            Optimum Moisture Content (%)  
 CBR            Californian Bearing Ratio