SECTION 1.0

TABLES

TABLE 1-1
SUMMARY OF SOIL CLASSIFICATION TESTS

SUMMARY OF SOIL CLASSIFICATION TESTS SAMPLE NUMBER	SAMPLE DEPTH (ft)	SOIL CLASSIFICATION	GEOLOGIC UNIT	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	NO. 200 SIEVE (%)
TP1-2	2-3	Fine sandy lean clay (CL)	Older colluvium	10	30	17	53
TP2-1	0-1	Clayey fine sand (SC)	Topsoil	3	28	15	38
TP2-4	3-5	Clayey fine sand (SC)	Highly weathered metamorphic rock		29	15	44
TP3-1	1-2	Fine sandy lean clay (CL)	Residual soil		32	18	56
TP4-2	3-4	Fine sandy lean clay (CL)	Residual soil	8	24	10	61
TP4-3	6-7	Silty medium to coarse sand (SM)	Highly weathered tonalite				
TP4-4	1-4	Fine sandy lean clay (CL)	Residual soil		23	10	58
TP4-5	4-7	Silty sand (SM)	Highly weathered tonalite			NP	18
TP5-1	2	Fine sandy lean clay (CL)	Residual soil	10	39	26	56
TP5-2	4-5	Silty sand with clay (SM)	Highly weathered metamorphic rock				
TP5-3	3-5	Silty fine sand (SM)	Highly weathered metamorphic rock			NP	42
TP6-1	0-1	Silty fine sand (SM)	Topsoil	2		NP	33
TP6-2	2.2-5	Silty fine sand (SM)	Colluvium	6		NP	31
TP7-2	2.2-5	Clayey fine sand (SC)	Older colluvium	8	28	12	31
TP8-1	1-2	Silty fine sand (SM)	Colluvium			NP	26
TP9-1	1-3	Silty fine sand (SM)	Colluvium			NP	43
TP9-2	3-6	Silty fine sand (SM)	Highly weathered metamorphic rock			NP	21
TP10-1	1-4	Silty fine sand (SM)	Colluvium			NP	34
TP10-2	4-7	Silty fine sand (SM)	Colluvium			NP	32

Source: Woodward-Clyde, 1995

TABLE 1-2
SUMMARY OF LABORATORY COMPACTION TEST RESULTS

SAMPLE NUMBER	SOIL DESCRIPTION	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE CONTENT (%)
TP2-4	Clayey fine sand (SC)	129.5	10.5
TP3-1	Fine sandy lean clay (CL)	128.0	10.5
TP4-4	Fine sandy lean clay (CL)	131.0	10.0
TP4-5	Silty sand (SM)	131.0	8.5
TP5-3	Silty fine sand (SM)	121.0	12.5
TP8-1	Silty fine sand (SM)	129.5	8.5
TP9-1	Silty fine sand (SM)	132.0	9.5
TP9-2	Silty fine sand (SM)	127.0	10.0
TP10-1	Silty fine sand (SM)	133.5	8.5
TP10-2	Silty fine sand (SM)	133.0	9.0

Source: Woodward-Clyde, 1995

TABLE 1-3
SUMMARY OF STRENGTH TEST RESULTS

SAMPLE NUMBER	SAMPLE DEPTH (FT)	SOIL CLASSIFICATION	GEOLOGIC UNIT	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	NORMAL STRESS	COHESION (PSF)	FRICTION ANGLE (DEGREES)
TP2-4	3-5	Clayey fine sand (SC)	Highly weathered granite	11	116	Low	440	28
TP3-1	1-2	Fine sandy lean clay (CL)	Residual soil	11	114	Low	240	28
TP4-5	4-7	Silty sand (SM)	Highly weathered tonalite	9	119	Low	500	47
TP5-3	3-5	Silty fine sand (SM)	Highly weathered tonalite	13	108	Low	720	32
TP5-3	3-5	Silty fine sand (SM)	Highly weathered tonalite	13	109	High	1500	30
TP8-1	1-2	Silty fine sand (SM)	Colluvium	9	117	Low	650	39
TP9-1	1-3	Silty fine sand (SM)	Colluvium	10	121	Low	770	30
TP9-2	3-6	Silty fine sand (SM)	Highly weathered granite	10	114	Low	660	41
TP10-1	1-4	Silty fine sand (SM)	Colluvium	9	120	Low	680	33
TP10-1	1-4	Silty fine sand (SM)	Colluvium	9	120	High	1120	33
TP10-2	4-7	Silty fine sand (SM)	Older colluvium	9	120	Low	610	33
TP10-2	4-7	Silty fine sand (SM)	Older colluvium	9	120	High	150	35

Source: Woodward-Clyde, 1995

TABLE 1-4
SUMMARY OF CONSOLIDATION TESTS

SAMPLE NUMBER	DEPTH (FT)	SOIL DESCRIPTION	LIQUID LIMIT	PLASTICITY LIMIT	VIRGIN COMPRESSION INDEX
TP2-4	3 to 5	Clayey sand (SC)	29	14	12.4
TP4-4	1 to 5	Fine sandy lean clay (CL)	23	13	16.8
TP9-1	1 to 3	Silty sand (SM)	--	NP	11.3

NP = Non-plastic
All samples inundated with water at 2 ksf.
Source: Woodward-Clyde, 1995

TABLE 1-5
SUMMARY OF LABORATORY PERMEABILITY TEST RESULTS

SAMPLE NUMBER	SOIL DESCRIPTION	DRY DENSITY (PCF)	NO. 200 SIEVE (%)	HYDRAULIC CONDUCTIVITY[a] (CM/SEC)
TP2-4	Clayey fine sand (SC)	116	44	3.7×10^{-6}
TP3-1	Fine sandy lean clay (CL)	115	56	3.8×10^{-7}
TP4-4	Fine sandy lean clay (CL)	118	58	7.3×10^{-7}
TP4-5	Silty sand (SM)	118	18	3.5×10^{-4}
TP5-3	Silty fine sand (SM)	109	42	1.1×10^{-6}
TP8-1	Silty fine sand (SM)	116	26	7.4×10^{-7}
TP9-1	Silty fine sand (SM)	119	43	7.3×10^{-7}
TP9-2	Silty fine sand (SM)	114	21	1.6×10^{-4}
TP10-1	Silty fine sand (SM)	120	34	7.8×10^{-6}
TP10-2	Silty fine sand (SM)	120	32	7.6×10^{-6}

[a] Samples remolded to 90 percent relative compaction (maximum density per ASTM D-1557) at optimum moisture content.
Source: Woodward-Clyde Consultants, 1995