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ENGINEERING BORELOG

[FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM BQF 075:191/95]

BOREHOLE No : 220

SHEET : 1 OF 1

REFERENCE No : H8161

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 2
 LOCATION : 3687.2E 162598.5N
 PROJECT No : C60117 SURFACE R.L. : 8.01 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 1/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING EH VH M L	INTACT STRENGTH	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	8.01				SILTY CLAY Grey to red brown, moist, very stiff.						
1						CH				Suppa=181KPa	U48
2	6.01				SILTY CLAY Green grey, moist very stiff silty clay; frequent red brown mottled zones.					6, 10, 17 N=27 Probable residual clay from weathered siltstone.	SPT
3						CH				12, 10, 15 N=25	SPT
4	4.26				XW SANDSTONE Exhibits engineering properties of red brown to grey brown, very dense, moist clayey sand.					17, 30/130 N=>50	SPT
5	3.71				HW SANDSTONE Red brown to brown, fine to medium grained; horizontal bedding.					Is (50) = 0.10MPa	x
6	2.34		(47) 100		CONGLOMERATE GREY BROWN TO BROWN FINE TO VERY COARSE GRAINED MASSIVE SEDIMENTARY ROCK SW: Red brown to brown; argillite to phyllitic rock particles throughout the rockmass.					Is (50) = 0.37MPa	x
7	0.81		(37) 100			SW				Is (50) = 0.30MPa	x
8					END OF HOLE						
9											
10											

REMARKS : DEFINITION FOR SANDSTONE: RED BROWN-BROWN FINE TO MEDIUM GRAINED PYROCLASTIC / SEDIMENTARY ROCK. * See attached list for defect descriptions.

LOGGED BY
DISS

DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075.191/95]

BOREHOLE NO :	220
SHEET :	1 OF 1
REFERENCE NO :	H8161

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	3687.399E	162596.537N	
PROJECT NO :	C60117	SURFACE R.L. :	8.02
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	1/12/97

DEPTH	DEFECT TYPE	DIP	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
4.39	J		lr	R			H,Cn
4.55	J		lr				H,Cn
4.7	J		lr				H,Cn
4.75	J		lr				H,Cn
4.82	J		lr				H,Cn
4.97	J		lr				H,Cn
5.04	J		lr				H,Cn
5.2	J		lr				
5.31	J		lr				H,Cn
5.4	J		lr				H,Cn
5.45	J		lr				H,Cn
5.5	J	20	lr	R			Cn
5.75	J	10	lr	R			Cn
5.86	J		lr				O
5.99	J		lr	R			Cn
6.16	J	10	lr	R			T
6.55	J		lr	R			O,Cn
7.11	J		lr	R			O,Cn

Abbreviations

ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J	Joint	P	Partly
Sm	Smooth	W	Weathered	B	Bedding	QZ	Quartz Vein
SL	Slickensided			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
				SZ	Sheared Zone	SI	Sand Infill
PLANARITY		APERTURE		WS	Weathered Seam	H	Horizontal
Pl	Planar	C	Closed	CZ	Crushed Zone	V	Vertical
St	Stepped	O	Open	SM	Secondary Mineralisation	CI	Clay Infill
Un	Undulating	F	Filled	BZ	Broken Zone	Cn	Clean
Cu	Curved	T	Tight	HFZ	Highly Fractured Zone		
lr	Irregular						

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog.

BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 220
START 4.30
END 7.20

H 8161
1 OF 1
DEC 1997

C60117

