MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG

Form 23ZL(c) (P) /10/74

PROJECT: NORTH SOUTH FREEWAY SECTION H BRISBANE RIVER CROSSING — HOLE No. 46
REF. H 4473
LOCATION: Coordinates = 35558.7N 44731.6E — DATUM: AHD
GROUND
JOB No 140/E008D/U04.2 — PROJECT No 2/71 — DATE 7/3/78 — SURFACE 2.79

TYPE OF DRILLING: Solid Augering ☐ 65mm Hollow Augering ☒ Casing ☐ NMLC Coring ☐

STRATA DESCRIPTION	Depth	Field Sample & N Value	R.L. 1:50	Graphic Log	ENGINEERING PROPERTIES: Parameters & Indices	MC(%)x DD(t/m³)o
	0.00		2.70			20.0 x 40.0 x 60.0 x 80.0 / 0.5 o 1.0 o 1.5 o 2.0
SILTY CLAY Brown, moist, very stiff.	A					x
	1.10		1.60			
CLAY Grey, moist, very soft.	B	1 1.6			Cu=42kPa ϕ_u=3°	
	C					
	D	2 3.1				
	E				C=11kPa ϕ=11° C'=6kPa ϕ'=25°	
	F	<1 4.6				
	4.80		-2.10			
CLAYEY SAND Grey, wet, loose. Fine to medium grained sand fraction. Irregular grey, moist. Very soft clay bands to 100mm throughout.	G					
	H	6 6.1				
	J					
	K	1 7.6				
	L					
	M	4 9.1				
	N					

(continued)

REMARKS: ** sample attempted but no sample obtained

GEOLOGIST
ENGINEER
APPROVED
DATE

50mm TUBE ▯ 76mm TUBE ▯ S.P.T. TEST ▯ WATER LEVEL ▽

Form 22ZL(c) (P) /10/74

MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG

PROJECT: NORTH SOUTH FREEWAY SECTION H BRISBANE RIVER CROSSING — HOLE No. 46 (cont.)

REF. H ... 4473

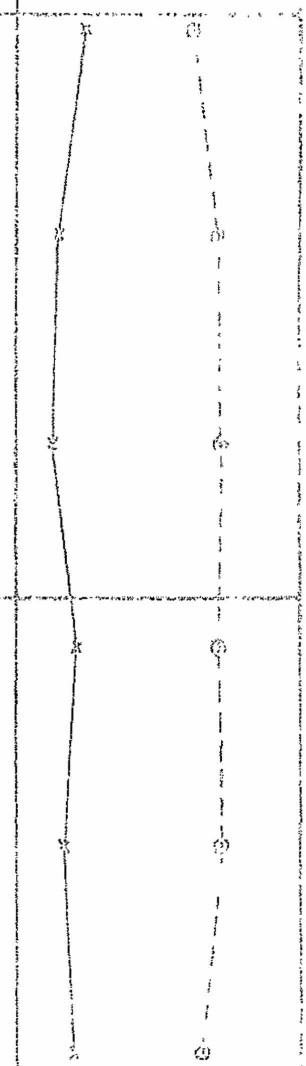
LOCATION ..... DATUM ..

GROUND

JOB No ..... PROJECT No ..... DATE ..... SURFACE .

TYPE OF DRILLING: Solid Augering ☐ 65 mm Hollow Augering ☒ Casing ☐ NMLC Coring ☐

Strata Description (Soil Type, Lithology, Weathering)	Depth (30.00)	Field Sample	N Value	R.L. 1.50 (-2.30)	Engineering Properties: Parameters & Indices
CLAYLY SAND (CONT.)		P	5 / 10.4		Gravel to 20mm.
CLAYEY SILT Brown-yellow ironstained grey, moist to wet, medium dense.	11.10	Q		-8.40	Black carbonaceous fragments to .mm. Cu=192kPa Øu=0°
		R	12 / 19.1		
		S			C=78kPa Ø=11° C'=54kPa Ø'=26°
		T	18 / 18.6		
		U			Cu=36kPa Øu=19°
		V	18 / 15.7		
SILTY AND CLAYEY SAND Brown, moist to wet, medium dense. Fine grained sand fraction.	15.40	W		-12.70	Cu=30kPa Øu=10°
		X	21 / 16.6		
		Y			Cu=82kPa Øu=13°
		Z	19 / 18.7		
		AA			
		AB	19.6		



REMARKS (continued) ..... GEOLOGIST ..

ENGINEER ..

APPROVED ..

DATE ..

50mm TUBE — 75mm TUBE — S.P.T. TEST — WATER LEVEL

Form 23ZL(c) (P) /10/74

MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG

PROJECT NORTH SOUTH FREEWAY SECTION H BRISBANE RIVER CROSSING — HOLE No 46 (cont.)

REF. H 4473

LOCATION — DATUM

GROUND

JOB No ... PROJECT No ... DATE ... SURFACE ...

TYPE OF DRILLING: Solid Augering ☐ 65mm Hollow Augering ☒ Casing ☒ NMLC Coring ☒

Strata Description: Soil Type / Lithology	Weathering	Depth (20.00)	Field Sample & N Value	R.L. 1:50 (-17.50)	Graphic Log	Engineering Properties: Parameters & Indices / Structure	MC(%)x 20,0 40,0 60,0 80,0 / DD(t/m3)o 0.5 1.0 1.5 2.0 / Intact Strength / Defect Spacing
SAND AND GRAVEL Brown, wet, medium dense. Medium grained sand and gravel to 3Cm.		AC				Cu=92kPa ϕ_u=7°	x o
		20.50		-17.30			
		AD	22 / 21.1				
		** AE					
		AF	25 / 22.6				
		AG	38 / 23.5				
		AH	25 / 24.1				
SANDSTONE Grey, medium to fine grained sub-horizontally bedded sedimentary rock.	DECOMPOSED Orange brown ironstained, moist, dense, clayey sand.	AJ	79 / 25				
		25.20		-22.50		STRUCTURE	
		AK	77 25.4				
		25.60	Core Rec %	-22.90		Shale Hard quartzite Cobble caused lost core.	
	HIGHLY WEATHERED Orange ironstained throughout decreasing to bottom. Subhorizontal and rare subvertical defects. Subhorizontal defects along bedding.		(11) 62				
			(0) 100			Interbedded shale bands.	
		27.60		-24.90			
	MODERATELY WEATHERED Subhorizontal defects showing ironstaining.	28.30		-25.60			
SHALE	MODERATELY WEATHERED Parting common along subhorizontal fissility.		(26) 100			Fine grained sandstone	

(continued)

REMARKS * Axial Point Load Test — GEOLOGIST ...

** Sample attempted but no sample obtained. — ENGINEER ...

Rock Quality Designation (RQD) shown in brackets above core recovery — APPROVED ...

☒ 50mm TUBE ☒ 76mm TUBE ☐ S.P.T. TEST ▽ WATER LEVEL — DATE ...

MAIN ROADS DEPARTMENT

Form 23ZL(d)
(P) /10/74

ENGINEERING BORE LOG

PROJECT NORTH SOUTH FREEWAY SECTION H BRISBANE RIVER CROSSING — HOLE No 46 (cont.)
REF. H 4473
LOCATION — DATUM
GROUND
JOB No — PROJECT No — DATE — SURFACE
TYPE OF DRILLING: Solid Augering ☐ 65 mm Hollow Augering ☐ Casing ☒ NMLC Coring ☒

STRATA DESCRIPTION (Soil Type / Lithology / Weathering)	Depth	Core Rec. %	R.L. 1:50	Graphic Log	STRUCTURE	ENGINEERING PROPERTIES (Intact Strength / Defect Spacing)
	30.00		-27.30			
SHALE (CONT.) Grey, fine grained fissile subhorizontally bedded sedimentary rock. MODERATELY WEATHERED (CONT.) Rare subvertical defects.		(0) 94			Sandstone	
		(0) 100				
		(0) 100				
	34.40	(0) 100	-31.70			
END OF HOLE						

REMARKS: Rock Quality Designation (RQD) shown in brackets above core recovery.
Intact Strength by subjective assessment only.

GEOLOGIST
ENGINEER
APPROVED
DATE 7/4/78

Decomposed | Highly Weathered | Moderately Weathered | Slightly Weathered | Core Loss