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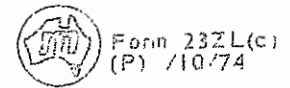
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MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG



PROJECT NORTH-SOUTH FREEWAY - BRISBANE RIVER CROSSING HOLE No 44
 LOCATION Coordinates N35177.297 E44994.222 REF. H 4488
 JOB No 140/2008D/104.2 PROJECT No 2/71 DATE 2/5/78 SURFACE 3.672
 TYPE OF DRILLING: Solid Augering 65 mm Hollow Augering Casing NMLC Coring

STRATA DESCRIPTION		Depth	Field Sample S _N Value	R.L.	Graphic	ENGINEERING PROPERTIES		
Soil Type Lithology	Weathering					Parameters & Indices	MC(%) x	DD(1/m ³) c
		0.00		1.50 3.67				
<u>SILTY CLAY</u> Dark grey to brown, moist, firm, slightly organic topsoil.								
		3.75	A	3.2				
<u>CLAY</u> Dark grey, wet, very soft.				0.08				
		5.20	B	4.6				
<u>SAND</u> Brown to grey, wet, loose to medium dense, medium grained with minor coarse grained.				1.53				
			C	3.2				
			E	12 7.2				

REMARKS ** Sample attempted but no sample obtained. GEOLOGIST

ENGINEER

APPROVED

DATE



MAIN ROADS DEPARTMENT
ENGINEERING HOPE LOG



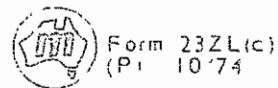
Form 232L(c)
(P) 7/10/74

PROJECT WATER-POWER STATION - MANTONDA ESTATE (GOSSIP) HOLE No. 44 (cont.)
 LOCATION REF N 4983
 DATUM
 GROUND
 SURFACE
 JOB No. PROJECT No. DATE
 TYPE OF DRILLING: Solid Augering 65 mm Hollow Augering Casing NMLC Coring

STRATA DESCRIPTION		Depth	Fls Sample	R.L.	%	ENGINEERING PROPERTIES		
Soil Type	Description					Parameters & Indexes	MC (%)	DD (g/m ³)
Limolite		10.00	1	6.35				
<u>SAND (CONT.)</u>		10.6	10-6					
		12.75	12-7	9.08				
<u>CLAY</u>	Dark grey, wet, very soft, slightly argillaceous.							
<u>SANDY CLAY AND SAND</u>	Dark grey, moist, soft to firm, clay layers with medium dense, or medium grained interbedded sand layers.	14.05	14-2	11.18				
		16.6	16-6					
		17.6	17-6					

REMARKS Samples collected for use sample obtained.
 GEOLOGIST
 ENGINEER
 APPROVED
 DATE
 50mm TUBE Wash Sample S.P. TEST WATER LEVEL

MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG



PROJECT NORTH-SOUTH FREEWAY - BRISBANE RIVER CROSSING HOLE No 44 (cont.)

LOCATION REF. H 4488

JOB No PROJECT No DATE SURFACE

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

STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Graphic Log	ENGINEERING PROPERTIES	
Soil Type Lithology	Weathering			1.50		Parameters & Indices	MC(%) x
SANDY CLAY AND SAND (CONT.)		20.00		-16.33			
		N	11				
		P	8				
		Q	10				
		R	24				
		S	16		Firm clay band.		
SAND AND GRAVEL Brown to grey, wet, loose to medium dense, medium to coarse grained, with rounded quartzitic gravel to 25mm. Clay bands to 15mm, shell fragments to 25mm common.		27.75		-24.08			
		T	9				
		U	33				

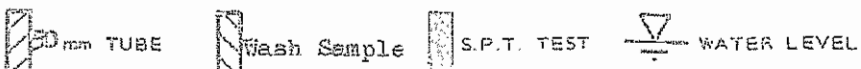
(continued)

REMARKS GEOLOGIST

ENGINEER

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MAIN ROADS DEPARTMENT
ENGINEERING BORE LOG



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

PROJECT NORTH-SOUTH FREDWAY - BRISBANE RIVER CROSSING HOLE No 44 (cont.)

REF. H 4488

LOCATION DATUM

GROUND

JOB No PROJECT No DATE SURFACE

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

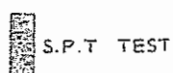
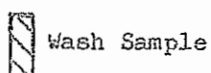
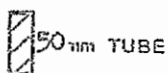
STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Graphic Log	ENGINEERING PROPERTIES		
Soil Type Lithology	Weathering			1:50		Parameters & Indices	MC(%) x	DD(t/m ³) o x x
SAND AND GRAVEL (CONT.)		30.00		-26.33				
			30.2					
			31.3					
		V	60/150					
			31.5					
	X							
	Y							

REMARKS GEOLOGIST

ENGINEER

APPROVED

DATE



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ENGINEERING BORE LOG

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

PROJECT NORTH-SOUTH FREEWAY - BRISBANE RIVER CROSSING HOLE No 44 (cont.)
REF. H 4488
LOCATION DATUM
GROUND
JOB No PROJECT No DATE SURFACE
TYPE OF DRILLING: Solid Augering 65mm Hollow Augering Casing NMLC Coring

STRATA DESCRIPTION		Depth	Field Sample & N Value	R.L.	Graphic Log	ENGINEERING PROPERTIES		
Soil Type Lithology	Weathering					Parameters & Indices	MC(%) x	DD(t/m3) o
SAND AND GRAVEL (CONT.)		40.00		1.50				
SHALE	Grey, fine grained fissile sedimentary rock.	41.93		38.26				
	HIGHLY WEATHERED Minor iron staining in top 0.05 metres	42.25		38.58				
SANDSTONE	Grey, medium grained sedimentary rock. Contains clasts of carbonaceous material.	42.78	(0) 94	39.11	Slightly weathered shale band.			
	SLIGHTLY WEATHERED		(0) 76			Not Applicable		
COAL	Black, highly fragmented carbonaceous sedimentary rock. Numerous fine grained shale and carbonaceous shale interbeds.	47.28	(0) 73		Slightly weathered shale band.	Not Applicable		
	HIGHLY WEATHERED Defects sub-horizontal and subvertical reflecting cleat. High amount of fracturing caused during drilling.		(0) 96	43.61		Not Applicable.		
END OF HOLE								

REMARKS Rock Quality Design (R-QD) shown in brackets above core recovery. GEOLOGIST
ENGINEER *N.K.*
APPROVED *G.W. Sinden*
DATE 7/8/78

50 mm TUBE Wash Sample S.P.T. TEST WATER LEVEL