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		<h2 style="text-align: center;">BOREHOLE RECORD</h2>				HOLE BH8		SHEET 1 OF 4	
PROJECT Yandina Highway Upgrading Preliminary Geotechnical Investigation		LOCATION see Fig.2. GROUND LEVEL				LOGGED BY BS DATE/S 21 OCT '93			
CONTRACTOR Christensen Drilling DRILL MODEL Jacro 350 MOUNTING Truck		ANGLE 90 BEARING — DIAMETER 100mm							

DRILLING		STRATA		MATERIAL DESCRIPTION		CONDITION		OBSERVATIONS					
SAMPLE, TEST, BIT, SUPPORT ETC	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WATER/MOISTURE	CONSISTENCY					SOIL ORIGIN STRUCTURE, ETC	
							VS	SL	ST	VL	LD		SS
AD-T		0.0	CH		Silty CLAY: dark brown, low to medium plasticity, some silt.	M							ALLUVIUM
		0.7	CL		Silty Sandy CLAY: dark brown, medium plasticity, some silt and fine grained sand.								
		1.0											
		1.5											
U50 Cu = 200-250		2.0											
AD-T													
SPT: 4,4,25 *N = 29		3.0											
AD-T		3.4	SC		Clayey SAND: brown, low plasticity clay, medium grained sand.								
		4.0											
		4.2											
SPT: 14,19,12 *N = 31		4.5	SP		Gravelly SAND: brown, medium grained sand, some gravel (<15-20mm) and traces of low plasticity clay.								
AD-T		4.8											
		5.0	GP		Sandy GRAVEL: yellow-brown, low plasticity clay, medium size sand, medium to coarse gravel up to 30mm.								
SPT: 11,11,9 *N = 20		6.0											
W-RR (C)		6.8											
		7.0			EW VOLCANIC ROCK: mottled brown, extremely weathered, low plasticity clay content as weathering product.								
		7.5											
SPT: 30/125 refusal		7.65			Washbore - Rock Rolling refusal at 7.5m. Borehole continued by coring. See Sheet 3.								
		8.0											

NOTES 1. From PCP26 to BH8 = 65.9m at 298° 2. The SPT result for 3.0m: The high count of 25 for the last 150mm, due to cobble being pushed down hole. 3. Auger drilled to 6.0m. Hole was collapsing below 4.5m. Casing was therefore installed and wash boring commenced.						FIGURE		JOB 7472/4	
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		<h2 style="text-align: center;">BOREHOLE RECORD</h2>				HOLE BH8		SHEET 2 OF 4	
PROJECT Yandina Highway Upgrading Preliminary Geotechnical Investigation						LOCATION see Fig.2. GROUND LEVEL			
CONTRACTOR Christensen Drilling DRILL MODEL Jacro 350 MOUNTING Truck		ANGLE 90 BEARING — DIAMETER 100mm		LOGGED BY BS DATE/S 21 OCT '93					

DRILLING SAMPLE, TEST, BIT, SUPPORT ETC	STRATA			MATERIAL DESCRIPTION SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	CONDITION		OBSERVATIONS SOIL ORIGIN STRUCTURE, ETC		
	R.L. AHD	DEPTH m	LEGEND		WATER/ MOISTURE	CONSISTENCY			
						VS		LL	PL
		8.0		Coring from 7.65m – 8.8m unsuccessful. No core recovered. Drilling continued by W-RR(C).					
W-RR(C)		8.8		EW VOLCANIC ROCK: mottled brown, extremely weathered, low plasticity clay present (weathering product), some silt and fine sand, highly weathered.			EW ROCK (Volcanic)		
SPT:30/110 refusal		9.0							
W-RR(C)									
		10.0							
		10.5		Washbore – Rock Rolling refused at 10.5m. Drilling continued by coring. See Sheet 3.					
		11.0							
		12.0							
		13.0							
		14.0							
		15.0							
		16.0							

NOTES 4. No recovery from SPT at 6.0m 5. Attempted coring from 7.65m – 8.80m and no core recovered, therefore Washbore – Rock Rolling continued to 9.0m then a SPT attempted, followed by Washbore – Rock Rolling to 10.5m. 6. Water level in borehole 3.2m.					FIGURE		JOB 7472/4	
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BOREHOLE RECORD

HOLE **BH8**

SHEET 3
OF 4

PROJECT	Yandina Highway Upgrading Preliminary Geotechnical Investigation			LOCATION GROUND LEVEL	see Fig.2.
CONTRACTOR	Christensen Drilling	ANGLE	90	LOGGED BY	BS
DRILL MODEL	Jacro 350	BEARING	—	DATE/S	21 OCT '93
MOUNTING	Truck	DIAMETER	100mm		

DRILLING			STRATA		MATERIAL DESCRIPTION			DISCONTINUITIES					
CASING RUN, REC. (%)	WATER	SAMPLE TEST	R.L.	DEPTH	GROUP SYMBOL	LEGEND	SOIL TYPE Colour, Plasticity, Grain Size, Minor Components	WEATHERING	ESTIMATED ROCK STRENGTH	FREQUENCY TO FREQUENCY (per m)	SPECIFIC		GENERAL CONDITION Planarity, Roughness, Coating, Infill
			AHD	m							TYPE	ANGLE THICKNESS (mm)	
				4.0			BH8 Auger drilled from 0.0m to 4.5m. Continued drilling by Washbore — Rock Rolling from 6.5m to 7.5m. Refer to Sheet 1 for description.						
				5.0									
				6.0									
				7.0									
				7.65									
				8.0			CORE LOSS 1150mm						
				8.8			Washbore — Rock Rolling to 9.0m. Then SPT attempt, followed by W-RR(C) to 10.5m. See Sheet 2.						
				9.0									
				10.0									
				10.5			VOLCANIC ROCK: brown — black, grain size from 3mm to 40mm, highly weathered, only basalt cobbles recorded, matrix removed (clay matrix washed away by technique).	HW					Clay matrix completely removed by coring process leaving only gravel remnants in core barrel.
				11.0									
				11.8									
				12.0			(cont.) see Sheet 4.						
NOTES								TYPE OF DISCONTINUITY		FIGURE		JOB	
								Jo—JOINT Be—BEDDING PLANE PARTING Fo—FOLIATED PARTING Cl—CLAY SEAM We—WEATHERED SEAM Cr—CRUSHED SEAM Sh—SHEARED ZONE				7472/4	

		<h2 style="margin: 0;">BOREHOLE RECORD</h2>				HOLE BH8		SHEET 4 OF 4	
PROJECT Yandina Highway Upgrading Preliminary Geotechnical Investigation						LOCATION see Fig.2. GROUND LEVEL			
CONTRACTOR Christensen Drilling		ANGLE 90		LOGGED BY PFW/BS		DATE/S 20 OCT '93			
DRILL MODEL Jacro 350		BEARING —							
MOUNTING Truck		DIAMETER 100mm							

DRILLING			STRATA		MATERIAL DESCRIPTION		DISCONTINUITIES							
CASING RUN, REC. (%)	WATER	SAMPLE TEST	R.L.	DEPTH	GROUP SYMBOL	LEGEND	WEATHERING	ESTIMATED ROCK STRENGTH	SOIL FREQUENCY TO (per m)	SPECIFIC			GENERAL CONDITION	
			AHD	m						TYPE	ANGLE	THICKNESS (mm)		
80%				12.0		VOLCANIC BRECCIA: pink brown to black, medium to very coarse grained, massive to heavily fractured, some heavily weathered clasts up to 15mm. END BH8	HW							2 fractures, one 0" and the second 70", clay matrix weathered at top of sequence.
				12.75										
				13.0										
				14.0										
				15.0										
				16.0										
				17.0										
				18.0										
				19.0										
				20.0										

NOTES		TYPE OF DISCONTINUITY Jo—JOINT Be—BEDDING PLANE PARTING Fo—FOLIATED PARTING Cl—CLAY SEAM We—WEATHERED SEAM Cr—CRUSHED SEAM Sh—SHEARED ZONE	FIGURE	JOB
				7472/4