G	ROU	UNDWATER	ID: WNWE013			JOB NUMBER: J080028					
RE	ESOURC	CE MANAGEMENT	CLIENT: Minemakers			PROJECT: Wonarah Feasibility					
PO Box 2310 Kardinya WA 6163 23 Parry Street			COMPLETED: 16-Mar-09 NORTHING: 7767		EASTING: 636070	'0			60 degrees		
					NORTHING: 7767130			AZIMUTH:	305 degrees		
Fremantle WA Ph: +61 8 9433		6160 2222 Fx: +61 8 9433 2322	Tom Browne Drilling		ELEVATION: 260			SWL (date):			
Email:		-r-m.com.au	LOGGED BY: SMW		GRID SYSTEM: MGA 94 - Zone		ə 53		ND mbrp ()		
Depth (m bgl)	Graphic + Stratigraphy	Lithological	Description		Field Notes		Bore Construction				
0		SAND, red-brown, fine grair ALLUVIUM/COLLUVIUM Clayey GRAVEL, red-browr							0-6m 165mm diameter open hole		
10 _	 	SILTSTONE, white, soft, lan weathered						•	0-6m 150mm Class 9 PVC Casing	Э	
20 _		SILTSTONE, yellow-brown, common limonite staining, n weathered									
30	· · · · · · · · · · · · · · · · · · ·	SILTSTONE, white and grey moderately weathered, inter minor chert bands. 24-26m: staining and is highly weather	layered with dolomite, zone with limonite								
40 _		SILTSTONE, yellow-brown,									
50 _	 	common limonite staining, r weathered									
60 _	· // //	SILTSTONE, dark grey to bi layers with 5% manganese,	dolomite layers are								
70 _		sub metre in thickness, moc ranging to highly weathered layers. 73-74m: Highly weat grey to yellow-brown clay.	through some siltstone						6-150m 152mm		
80 _	/	CLAY, pale brown, moderate	e plasticity, completely	78	3m:Wet on rod change				diameter open hole		
90 _		weathered SILTSTONE	rey, massive, 15%								
100		SILTSTONE, white, soft, lan weathered QUARTZITE+CLAY, brown predominantly clay with zon (not infill, but in-situ based o	99-' C	16m:First continuous water,Q'0.2 L/s 102m:Very problemati Irilling, can not clear e.Q'2 L/s. Water has a high proportion of							
110 _	 	fragments and the way it dril fragments.	led), common chert	E	suspended clay 114m:Q=2L/s, C=1.4mS/cm @ 38C,						
120 _		laminated, slightly weathere			pH=8.5	_/					
130 _		reaction to acid, very siliceo		E	132m:Q=1.8L/s, C=1.4mS/cm @ 38C, pH=8.5						
140		BASALT, black, fine grained very weak haematite alterati			150m:Q=1.3L/s,						
- 150 _ -				pH pro cla	C=1.5mS/cm @ 38C, =8.5 Water has a high oportion of suspended ay. Will be difficult to stablish a bore in this if ar Durst from cyclon				EOH 150m		
160					ifer. Dust from cyclon while drilling						
- 170											



