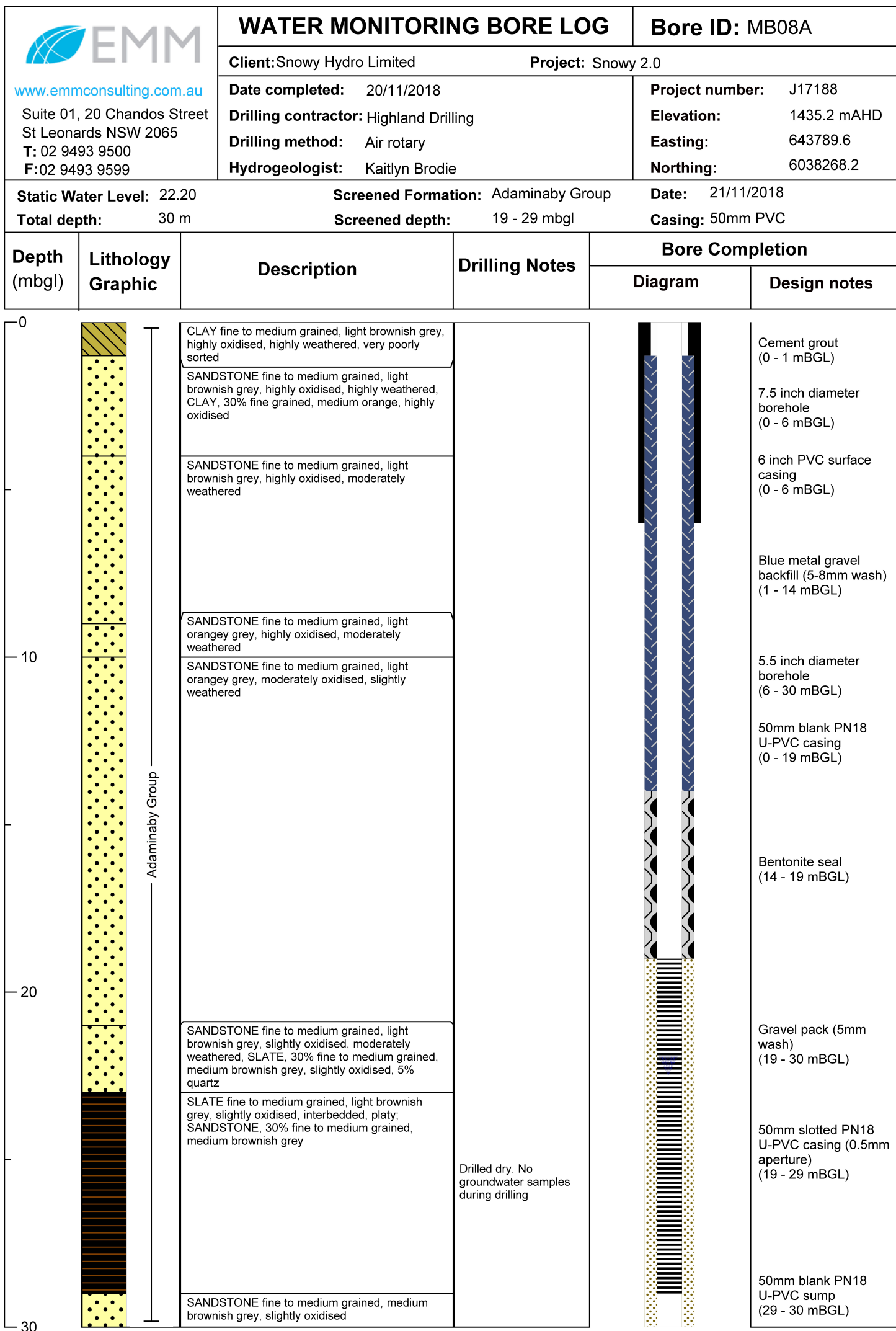


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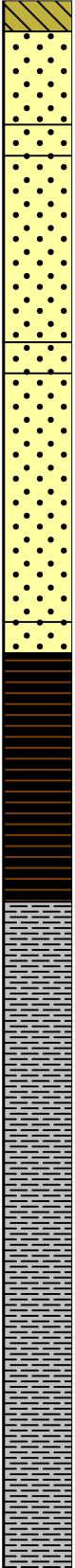

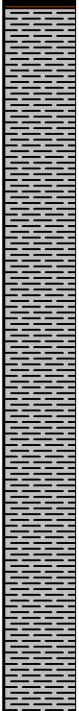
Appendix C

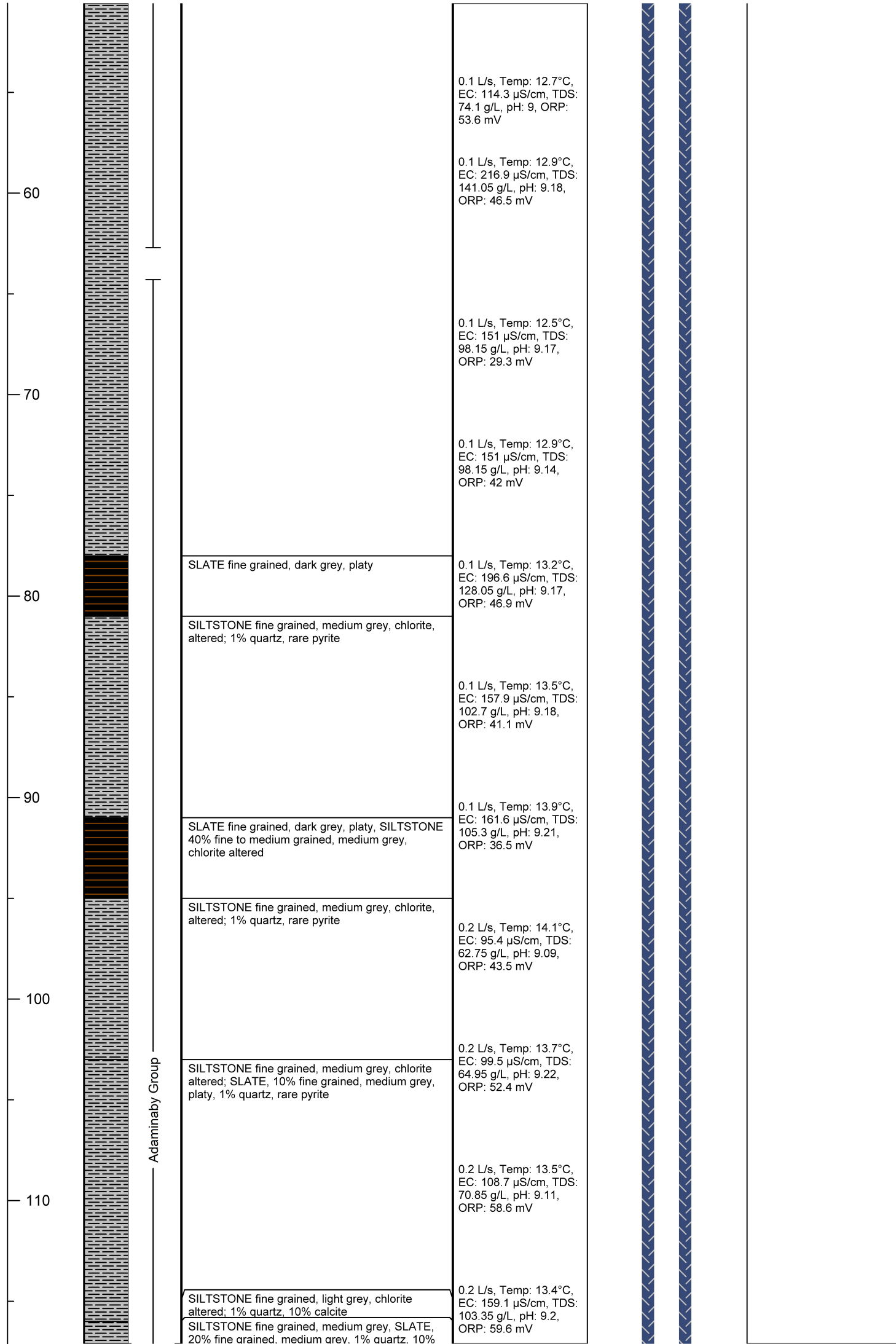
# Geological and bore construction logs





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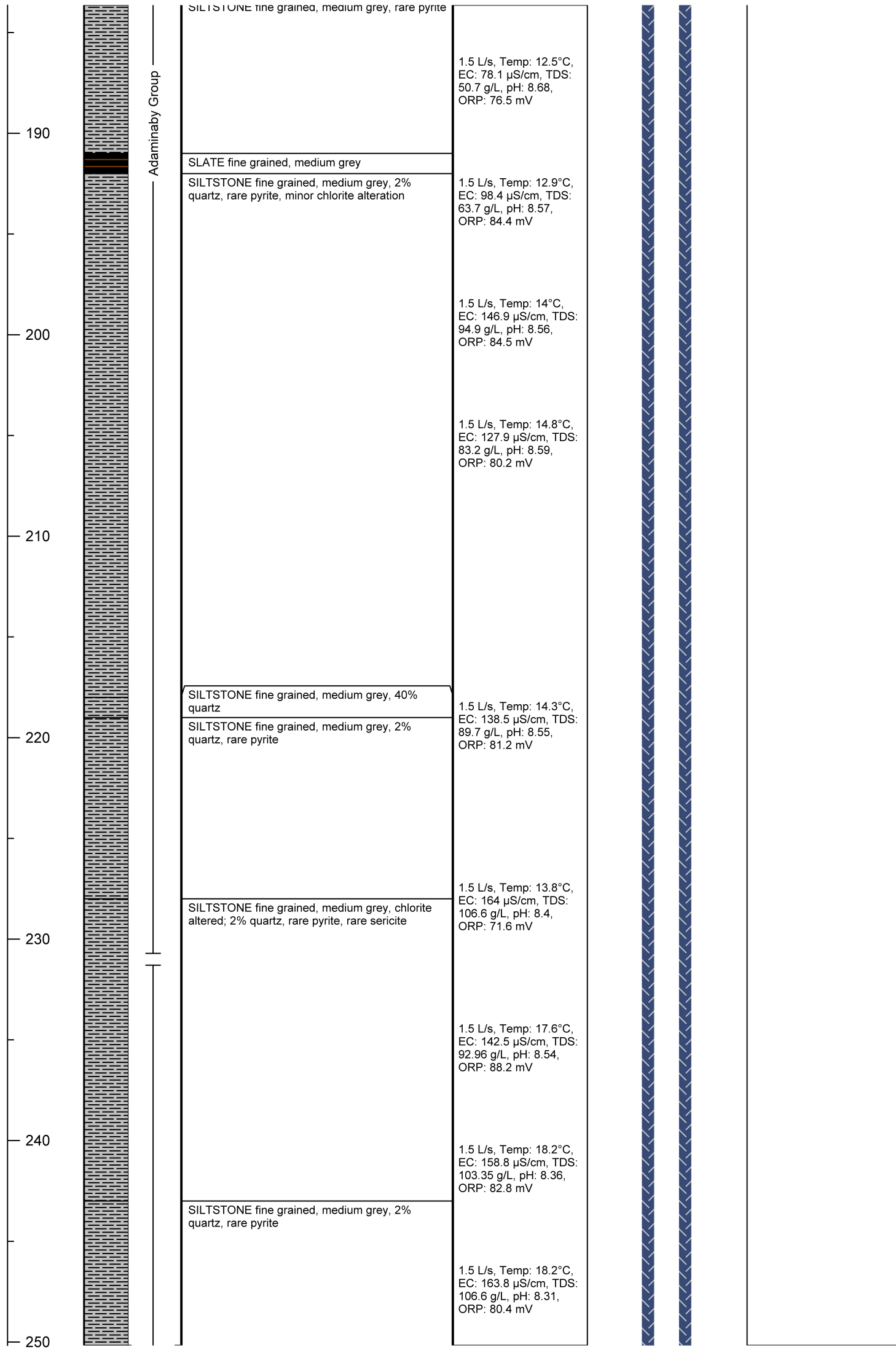


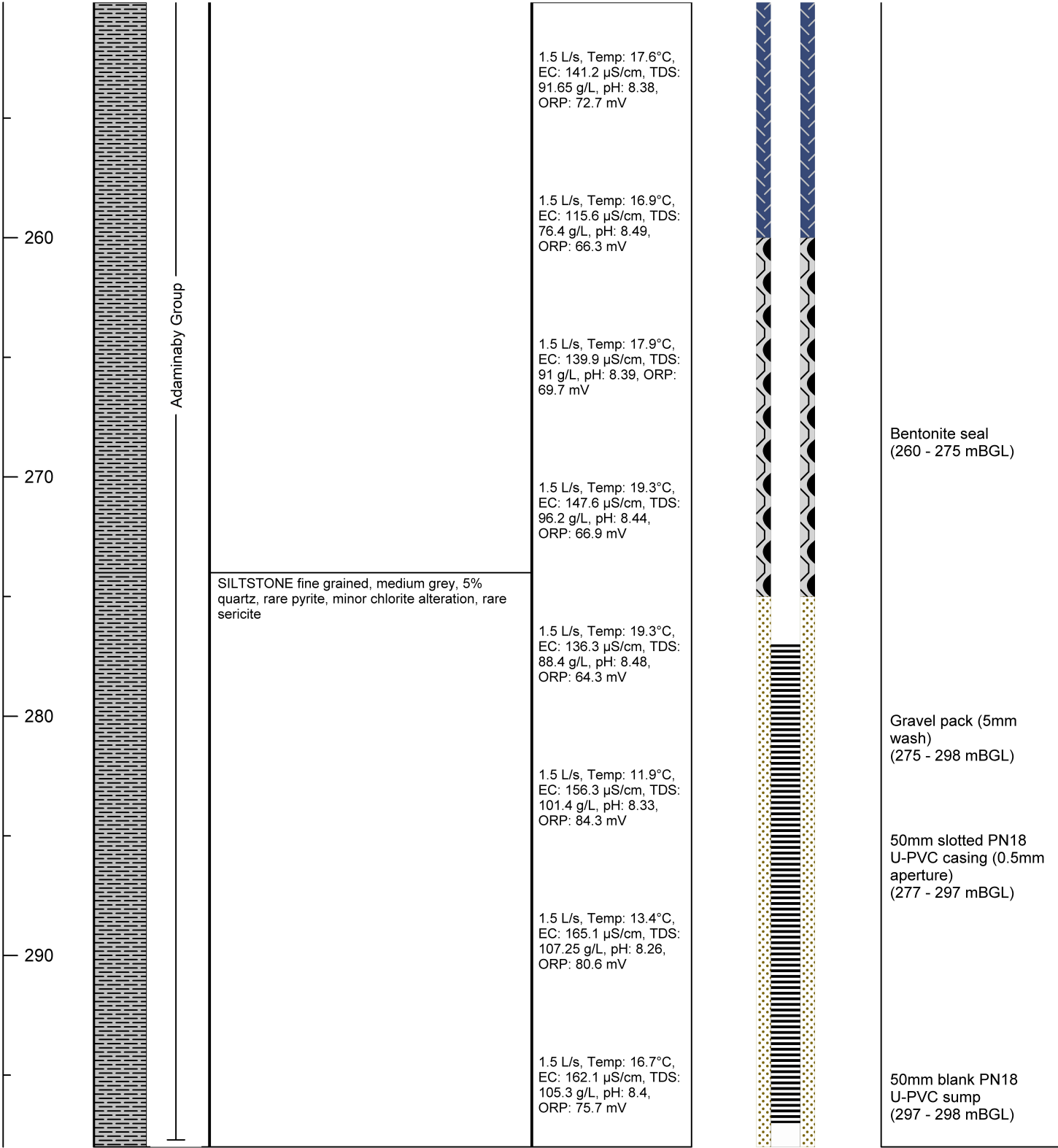





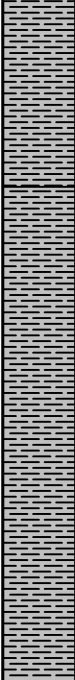
 <a href="http://www.emmconsulting.com.au">www.emmconsulting.com.au</a> Suite 01, 20 Chandos Street St Leonards NSW 2065 T: 02 9493 9500 F: 02 9493 9599		<b>WATER MONITORING BORE LOG</b>		<b>Bore ID: MB08B</b>	
		<b>Client:</b> Snowy Hydro Limited		<b>Project:</b> Snowy 2.0	
		<b>Date completed:</b> 17/10/2018		<b>Project number:</b> J17188	
<b>Drilling contractor:</b> Highland Drilling		<b>Elevation:</b> 1435.6 mAHD		<b>Eastings:</b> 643789.6	
<b>Drilling method:</b> Air Rotary		<b>Northings:</b> 6038276.7			
<b>Hydrogeologist:</b> Kaitlyn Brodie					
<b>Static Water Level:</b> 22.44 mBGL		<b>Screened Formation:</b> Adaminaby Group		<b>Date:</b> 21/11/2018	
<b>Total depth:</b> 298 m		<b>Screened depth:</b> 278 - 298 mBGL		<b>Casing:</b> 50 mm threaded PVC	
Depth (mbgl)	Lithology Graphic	Description	Drilling Notes	Bore Completion	
				Diagram	Design notes
0		CLAY fine to medium grained, medium brownish grey, highly oxidised, highly weathered, very poorly sorted			Cement grout (0 - 1 mBGL)
		SANDSTONE fine to medium grained, light brownish grey, moderately oxidised, highly weathered			
		SANDSTONE fine to medium grained, light orangey grey, highly oxidised, moderately weathered			
		SANDSTONE fine to medium grained, medium orangey brown, highly oxidised, moderately weathered			7.5 inch diameter borehole (0 - 24 mBGL)
10		SANDSTONE fine to medium grained, light bluish grey, slightly oxidised, moderately weathered			
		SANDSTONE fine to medium grained, medium bluish grey, moderately oxidised, slightly weathered			
					6 inch steel surface casing (0 - 24 mBGL)
20		SANDSTONE fine to medium grained, medium brownish grey, slightly oxidised, moderately weathered, SLATE, 10% fine to medium grained, medium brownish grey, slightly oxidised			
		SLATE fine to medium grained, medium brownish grey, slightly oxidised, interbedded, platy; SANDSTONE, 10% fine to medium grained, medium brownish grey			
					Blue metal gravel backfill (5-8mm wash) (1 - 260 mBGL)
30		SILTSTONE fine grained, medium brownish grey, varying quartz content, rare pyrite, minor chlorite alteration, and rare sericite	0.1 L/s, Temp: 12.2°C, EC: 1136 µS/cm, TDS: 738 g/L, pH: 11.8, ORP: -62.8 mV		5.5 inch diameter borehole (24 - 298 mBGL)
			0.1 L/s, Temp: 14.6°C, EC: 838 µS/cm, TDS: 539.5 g/L, pH: 11.11, ORP: -42.8 mV		
40			0.1 L/s, Temp: 18.5°C, EC: 280.9 µS/cm, TDS: 183.95 g/L, pH: 9.73, ORP: 19.9 mV		50mm blank PN18 U-PVC casing (0 - 277 mBGL)
50			0.1 L/s, Temp: 12.4°C, EC: 155.5 µS/cm, TDS: 101.4 g/L, pH: 9.17, ORP: 43.6 mV		

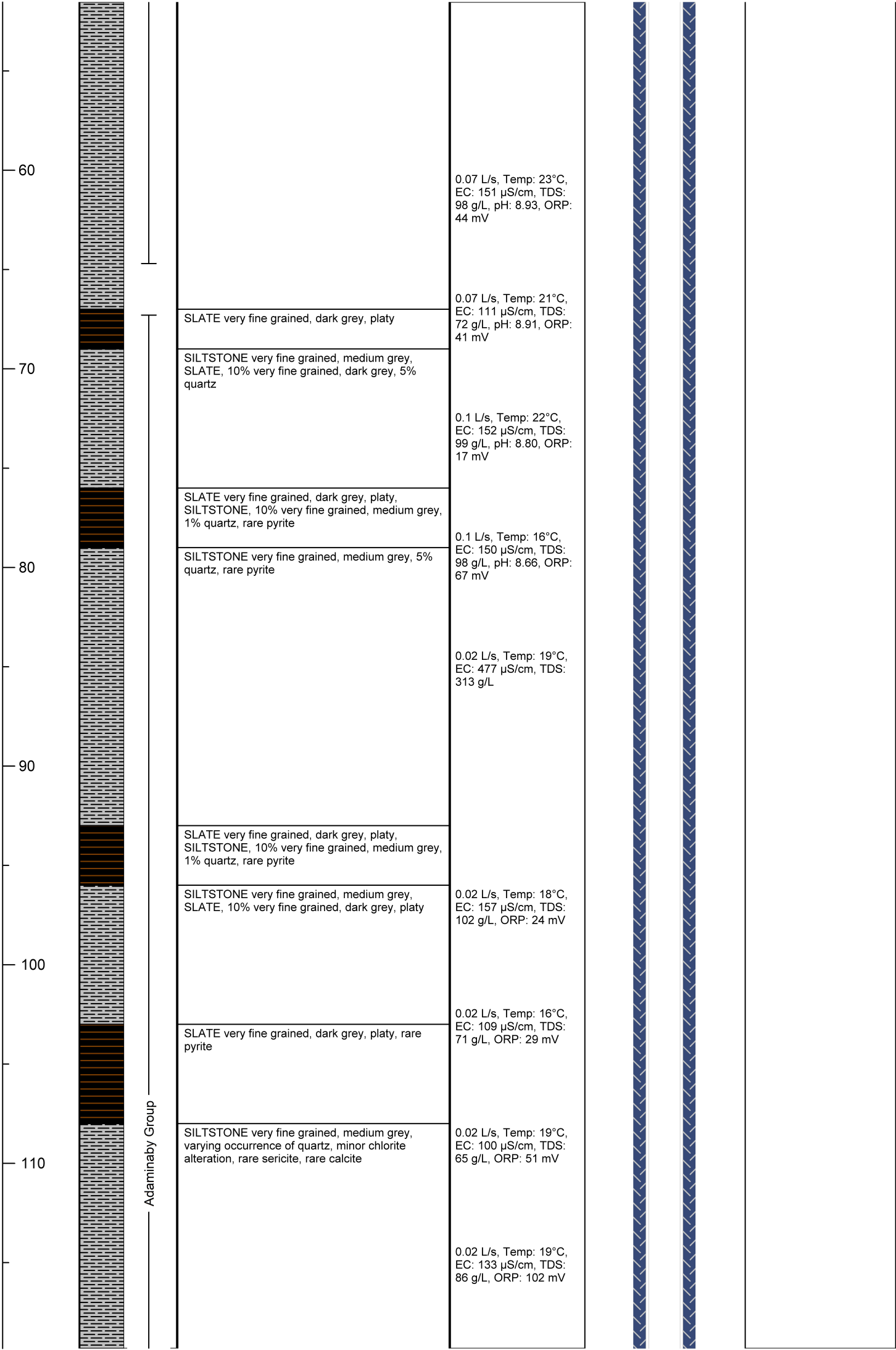


120		20% fine grained, medium grey, 1% quartz, 10% calcite	0.2 L/s, Temp: 14.6°C, EC: 171.5 µS/cm, TDS: 111.8 g/L, pH: 8.93, ORP: 58.9 mV								
		SLATE fine grained, dark grey, chlorite altered; SILTSTONE, 10% fine grained, medium grey									
130		SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, rare pyrite	0.3 L/s, Temp: 16.5°C, EC: 81.4 µS/cm, TDS: 52.65 g/L, pH: 9.21, ORP: 44.8 mV								
		SILTSTONE fine grained, medium grey, varying quartz content, rare pyrite, minor chlorite alteration, rare sericite, rare calcite	0.3 L/s, Temp: 18.1°C, EC: 156.2 µS/cm, TDS: 101.4 g/L, pH: 9.21, ORP: 46.7 mV								
		140					SLATE fine grained, dark grey, chlorite altered; SILTSTONE, 40% fine grained, medium grey, 1% quartz	0.8 L/s, Temp: 14.8°C, EC: 155.3 µS/cm, TDS: 100.75 g/L, pH: 8.83, ORP: 68.5 mV			
							SILTSTONE fine grained, medium grey, 1% quartz	0.8 L/s, Temp: 12.8°C, EC: 217 µS/cm, TDS: 141.05 g/L, pH: 8.83, ORP: 72.9 mV			
SLATE fine grained, medium grey, 2% quartz							0.8 L/s, Temp: 14.3°C, EC: 153.3 µS/cm, TDS: 99.45 g/L, pH: 8.78, ORP: 68.9 mV				
SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, 2% quartz, 1% calcite, rare pyrite											
150		SLATE fine grained, medium grey, SILTSTONE, 10% fine grained, medium grey, 1% quartz, rare pyrite	0.8 L/s, Temp: 14.3°C, EC: 153.3 µS/cm, TDS: 99.45 g/L, pH: 8.78, ORP: 68.9 mV								
		160						SILTSTONE fine grained, medium grey, varying quartz content, rare pyrite, minor chlorite alteration, rare sericite	0.8 L/s, Temp: 12.7°C, EC: 109.4 µS/cm, TDS: 70.85 g/L, pH: 8.73, ORP: 74.2 mV		
							170		SLATE fine grained, medium grey, SILTSTONE, 40% fine grained, medium grey, 1% quartz, rare pyrite, rare calcite	1.5 L/s, Temp: 7.6°C, EC: 154.1 µS/cm, TDS: 100.1 g/L, pH: 8.57, ORP: 113.5 mV	
									SILTSTONE fine grained, medium grey, chlorite altered; SLATE, 10% fine grained, medium grey, 1% quartz, rare pyrite	1.5 L/s, Temp: 10.1°C, EC: 151.8 µS/cm, TDS: 98.8 g/L, pH: 8.56, ORP: 104.9 mV	
SLATE fine grained, medium grey, SILTSTONE, 10% fine grained, medium grey, 1% quartz, rare pyrite									1.5 L/s, Temp: 12.1°C, EC: 145.5 µS/cm, TDS: 94.25 g/L, pH: 8.6, ORP: 92 mV		
SILTSTONE fine grained, medium grey, chlorite altered											
SLATE fine grained, medium grey, SILTSTONE, 10% fine grained, medium grey		1.5 L/s, Temp: 10°C, EC: 147.4 µS/cm, TDS: 95.55 g/L, pH: 8.59, ORP: 88.9 mV									
SILTSTONE fine grained, medium grey, chlorite altered; 2% quartz, rare pyrite											
180			SILTSTONE fine grained, medium grey, rare pyrite								
			SILTSTONE fine grained, medium grey, rare pyrite								

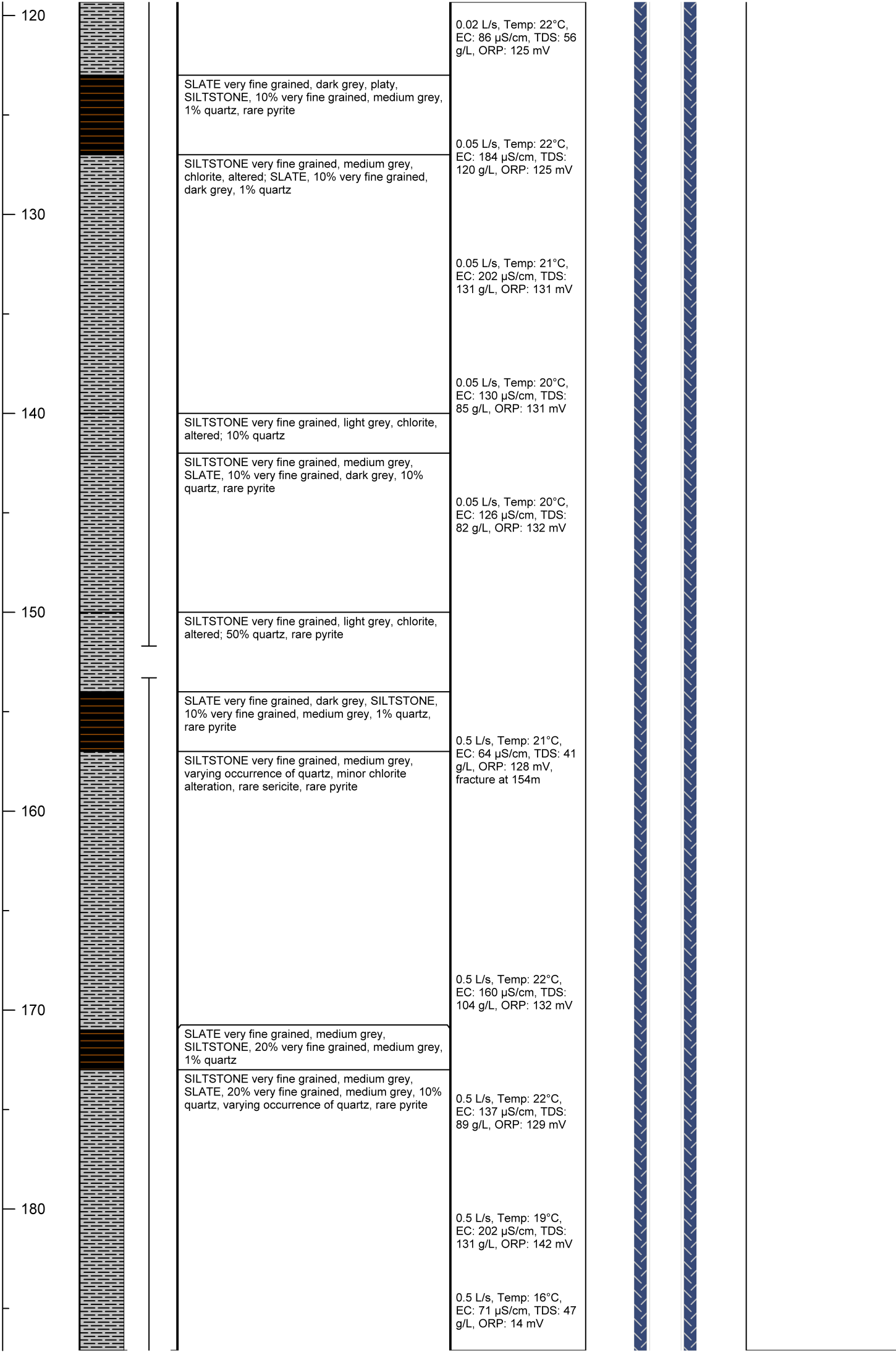




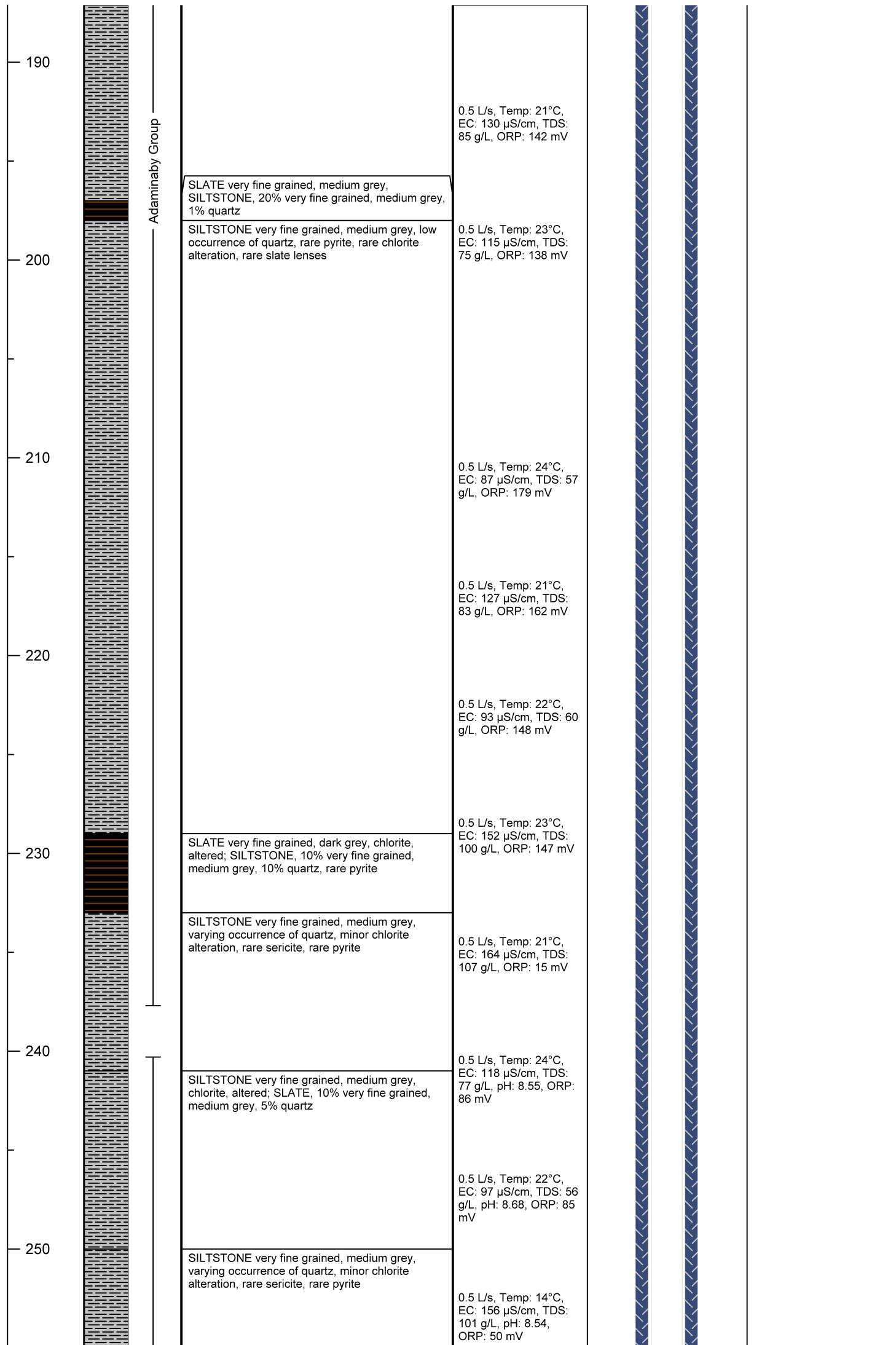
 <a href="http://www.emmconsulting.com.au">www.emmconsulting.com.au</a> Suite 01, 20 Chandos Street St Leonards NSW 2065 T: 02 9493 9500 F: 02 9493 9599		<b>WATER MONITORING BORE LOG</b>		<b>Bore ID: PB06</b>	
		Client: Snowy Hydro Limited		Project: Snowy 2.0	
		Date completed: 6/11/2018		Project number: J17188	
		Drilling contractor: Highland Drilling		Elevation: 1435.5mAHD	
		Drilling method: Air Rotary		Easting: 643796.8	
		Hydrogeologist: Kaitlyn Brodie		Northing: 6038289.1	
Static Water Level: 292mBGL		Screened Formation: Adaminaby Group		Date: 21/11/2018	
Total depth: 318m		Screened depth: 298 - 318m open hole		Casing: 5.5 inch steel	
Depth (mbgl)	Lithology Graphic	Description	Drilling Notes	Bore Completion	
				Diagram	Design notes
0		SANDSTONE very fine to fine grained, light brownish grey, highly oxidised, SOIL, 40% fine grained, dark brown	Turned on water to suppress dust and received large coarse sandstone chips		Cement grout (0 - 1 mBGL)
		SANDSTONE very fine to fine grained, light brownish orange, highly oxidised, CLAY, 40% fine grained, medium orange, highly oxidised			10 inch diameter borehole (0 - 30 mBGL)
		SANDSTONE very fine to fine grained, light bluish grey, moderately oxidised, 2% quartz			8 inch steel surface casing (0 - 30 mBGL)
10		SANDSTONE very fine to fine grained, light brownish orange, highly oxidised, 2% quartz			
		SANDSTONE very fine to fine grained, light orangey grey, highly oxidised, 1% quartz			
		SANDSTONE very fine to fine grained, light brownish grey, slightly oxidised			
20		SANDSTONE very fine to fine grained, light brownish grey, slightly oxidised, SLATE, 30% very fine grained, light brown, slightly oxidised, platy, 5% quartz			
		SLATE very fine grained, medium greyish brown, slightly oxidised, SANDSTONE, 40% very fine to fine grained, light brownish grey, slightly oxidised, 1% quartz			
30		SILTSTONE very fine grained, medium grey, slightly oxidised, SANDSTONE, 20% very fine to fine grained, light brownish grey, slightly oxidised, SLATE, 10% fine to medium grained, medium grey, platy, 1% quartz			Blue metal gravel backfill (5-8mm wash) (1 - 283 mBGL)
		SILTSTONE very fine grained, medium grey, low occurrence of quartz, rare pyrite, minor chlorite alteration, rare sericite			7.5 inch diameter borehole (30 - 298 mBGL)
40					5.5 inch steel casing (0 - 298 mBGL)
50					

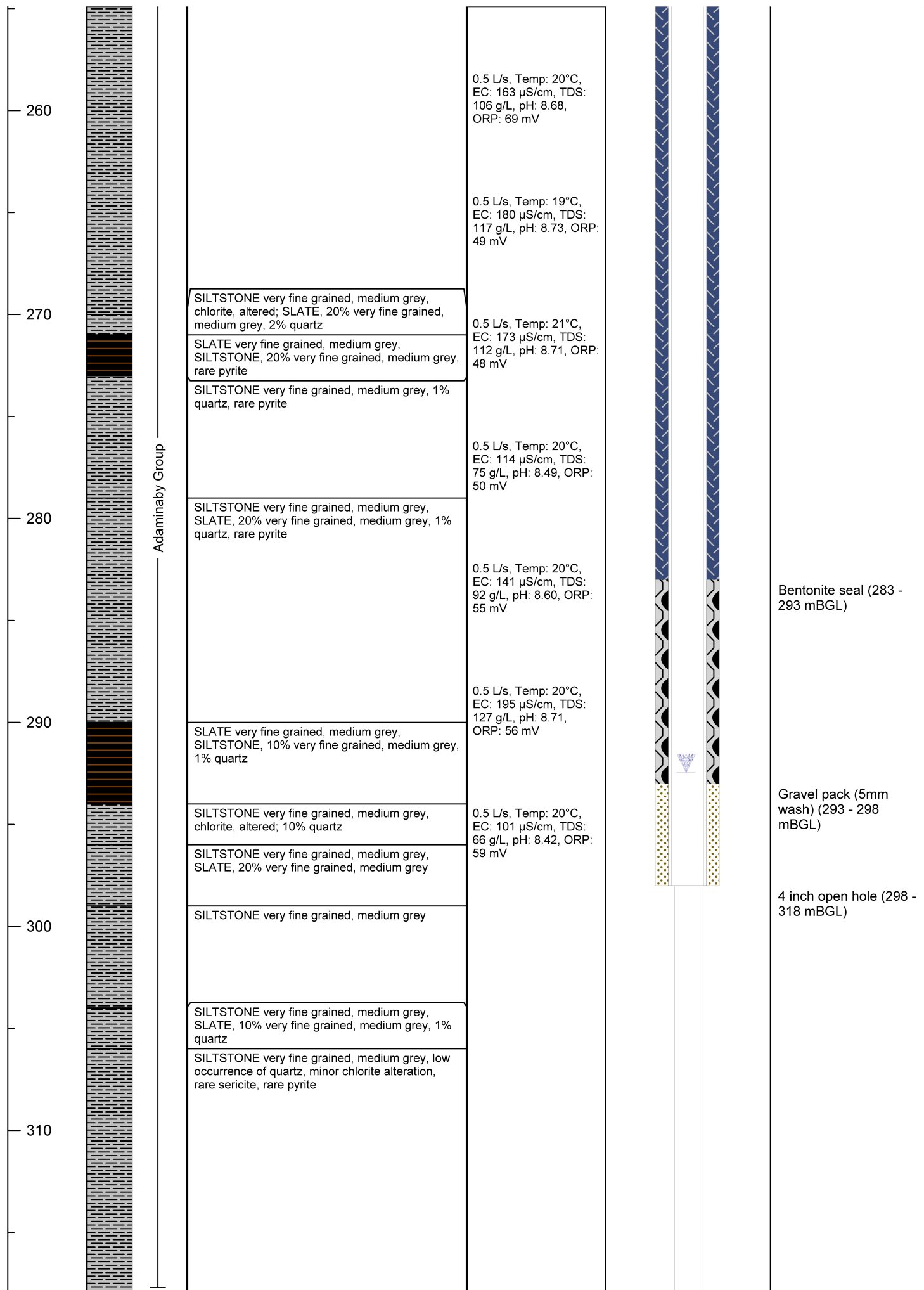



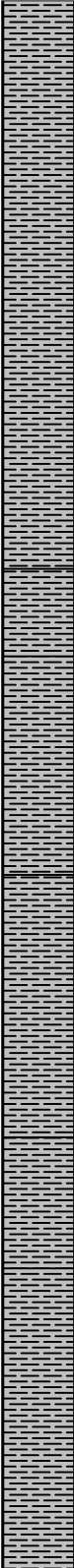












 <a href="http://www.emmconsulting.com.au">www.emmconsulting.com.au</a> Suite 01, 20 Chandos Street St Leonards NSW 2065 T: 02 9493 9500 F: 02 9493 9599		<b>WATER MONITORING BORE LOG</b>		<b>Bore ID: MB12A</b>	
		Client: Snowy Hydro Limited		Project: Snowy 2.0	
		Date completed: 18/12/2018		Project number: J17188	
		Drilling contractor: Highland Drilling		Elevation: 1329.9 mAHD	
		Drilling method: Air Rotary		Easting: 632508.0	
		Hydrogeologist: Kaitlyn Brodie		Northing: 6038549.3	
Static Water Level: 26.25 mBGL		Screened Formation: Adaminaby Group		Date: 20/12/2018	
Total depth: 36m		Screened depth: 26 - 35 mBGL		Casing: 50mm threaded PVC	
Depth (mbgl)	Lithology Graphic	Description	Drilling Notes	Bore Completion	
				Diagram	Design notes
0	 Ravine Beds	SILTSTONE very fine to fine grained , medium brownish grey, moderately oxidised, 2% quartz, minor organic matter present			Cement grout (0 - 1 mAHD)
					5.5 inch diameter borehole (0 - 36 mBGL)
10					Blue metal gravel backfill (5-8mm wash) (1 - 21 mBGL)
		SILTSTONE very fine to fine grained , medium brownish grey, highly oxidised, 30% quartz			
		SILTSTONE very fine to fine grained , medium brownish grey, highly oxidised			50mm blank PN18 U-PVC casing (threaded) (0 - 26 mBGL)
20		SILTSTONE very fine to fine grained , medium brownish grey, slightly oxidised, 20% quartz			Bentonite seal (21 - 25 mBGL)
		SILTSTONE very fine to fine grained , medium brownish grey, slightly oxidised			Gravel pack (5mm wash) (25 - 36 mBGL)
30		SILTSTONE very fine to fine grained , medium grey			50mm slotted PN18 U-PVC casing (0.5mm aperture) (26 - 35 mBGL)
			Temp: 23°C, EC: 157 µS/cm, TDS: 102 g/L, pH: 6.55, ORP: 150 mV, injected water to <5mins before reading may have altered pH and ORP		50mm blank PN18 U-PVC sump (threaded) (35 - 36 mBGL)