

esp
ENGINEERS
GEOLOGISTS
SCIENTISTS

Project Name:	Proposed Industrial Extension, Goat Mill Road		
Project Ref:	6665b		
Test Location:	TP1/SA1	Soil Infiltration Rate	test failed m/sec
Fill Number:	1		

Test results:

[illegible]

Pit Dimensions (m)

length	2.00
width	0.35
depth	1.05

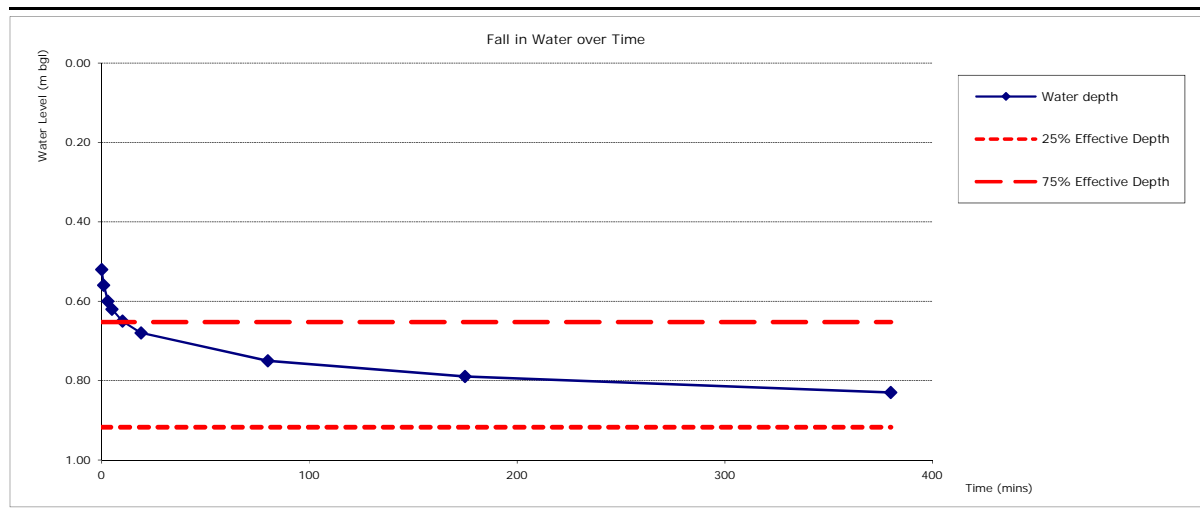
Assumed Invert Level (m bgl)	0.52
------------------------------	------

Ground Conditions:

0.0 - 0.13	Soft dark brown slightly gravelly slightly sandy organic CLAY with roots. (PLACED TOPSOIL)
0.13-0.55	Soft to firm dark brown slightly gravelly slightly sandy CLAY with a low cobble content. Cobbles and gravel are angular to rounded and of mudstone with some coal. (MADE GROUND)
0.55-1.05	Extremely weak grey MUDSTONE recovered as angular fragments of sizes between gravel and cobbles. (GRADE B/C SOUTH WALES LOWER COAL MEASURES FORMATION)

Remarks:

1. Testing undertaken in general accordance with BRE Digest 365:2007
2. Trial pit was not filled with aggregate for test.



$$f = \frac{V_{p75-25}}{\alpha_{p50} \times t_{p75-25}}$$

V_{p75-25}	Effective depth storage volume of water in the trial pit between 75% and 25% effective depth	0.19
α_{p50}	The internal surface area of the trial pit up to 50% effective depth and including the base area	1.9455
t_{p75-25}	The time for the water level to fall from 75% to 25% effective depth	n/a

Soil Infiltration Rate (m/sec)	f	0.186
		no value
	f	test failed