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Job No. **T-2022-115**
 Job **Kings Farmhouse, 423 Dover Road, Walmer, Kent CT14 7PE**
 Client **Blackrock Architecture Ltd**

Sheet **01**
 Rev:

Soakage Test ~ TP1

1.0 Calculation of Soil Infiltration Rate

Design to BRE 365: Sept 2003

Test 1			Trial Pit Length x Width x Depth		
Time	Dip		0.30	0.30	0.30
0	0.000	0.300			
2	0.075	0.225			
8	0.225	0.075			
15	0.300	0.000			

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

therefore lowest $f = 1.19E-04$ m/s
 $= 0.43$ m/hr

Test 2		
Time	Dip	
0	0.000	0.300
2.5	0.070	0.230
9	0.225	0.075
16	0.300	0.000

	Test 1	Test 2	Test 3
V_{p100} (Start test) =	0.027	0.027	0.027 m ³
V_{p0} (End test) =	0.000	0.000	0.000 m ³
Total Volume =	0.027	0.027	0.027 m ³
V_{p75} =	0.020	0.020	0.020 m ³
V_{p25} =	0.007	0.007	0.007 m ³
a_{p100} (Start Test) =	0.450	0.450	0.450 m ²
a_{p0} (End Test) =	0.090	0.090	0.090 m ²
t_{p75} =	2	3	3 min
t_{p25} =	8	9	10 min
V_{p75-25} =	0.014	0.014	0.014 m ³
a_{p50} =	0.270	0.270	0.270 m ²
t_{p75-25} =	6	7	7 min
therefore f =	1.39E-04	1.28E-04	1.19E-04 m/s

Test 3		
Time	Dip	
0	0.000	0.300
3	0.075	0.075
10	0.225	0.075
17	0.300	0.000

