

Soil Infiltration Test Procedure (In accordance with BRE Digest 365)

Test Pit Dimensions

The infiltration test requires a trial pit (or pits) located in the vicinity of the proposed soakaway.

The plan size of the trial pit should be 0.3 - 1.0m wide x 1.0 - 3.0m long. The depth should match the depth of the proposed soakaway, **please confirm depth and location with engineer prior to undertaking the test.**

Test procedure

The test should be carried out 2- 3 times on the same or consecutive days as follows:

Quickly fill the pit with water (this must be done using a bowser or large storage tanks and not slowly filled using a hose) to at least the effective depth (depth of proposed soakaway) or 500mm from ground level.

Record the time and depth at regular intervals (15mins or less if quick infiltration) while it falls.

Allow level to fall to near empty (the water must drop below 80% of the filled water depth to be a valid test) and then repeat the test twice more. The depth should be measured down from GL to the top of the water.

	Infiltration Test - Data record	Test Pit Ref (job no./pit no.)	Pit 1
		Sheet	1 of 3
Client:	KJ FOX		
Scheme:			
Location	UPPER BOGNOR ROAD		
Prepared by:	TOM HOWARD	date:	6/2/2022
Approved by:		date:	

Pit Length	1000 mm
Pit Width	1000 mm
Pit Depth	1000 mm

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Record the time and depth at regular intervals (15mins or less if quick infiltration) while it falls.

Allow level to fall to near empty (the water must drop below 80% of the filled water depth to be a valid test) and then repeat the test twice more. The depth should be measured down from GL to the top of the water.

	Infiltration Test - Data record	Test Pit Ref (job no./pit no.)	Pit 3
		Sheet	3 of 3
Client:	KJ FOX		
Scheme:			
Location	UPPER BOGNOR ROAD		
Prepared by:	TOM HOWARD	date:	20/2/22
Approved by:		date:	

Pit Length	500 mm
Pit Width	500 mm
Pit Depth	500 mm

[illegible][illegible][illegible]

Soil Infiltration Test Procedure (In accordance with BRE Digest 365)

Test Pit Dimensions

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Test procedure

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Quickly fill the pit with water (this must be done using a bowser or large storage tanks and not slowly filled using a hose) to at least the effective depth (depth of proposed soakaway) or 500mm from ground level.

Record the time and depth at regular intervals (15mins or less if quick infiltration) while it falls.

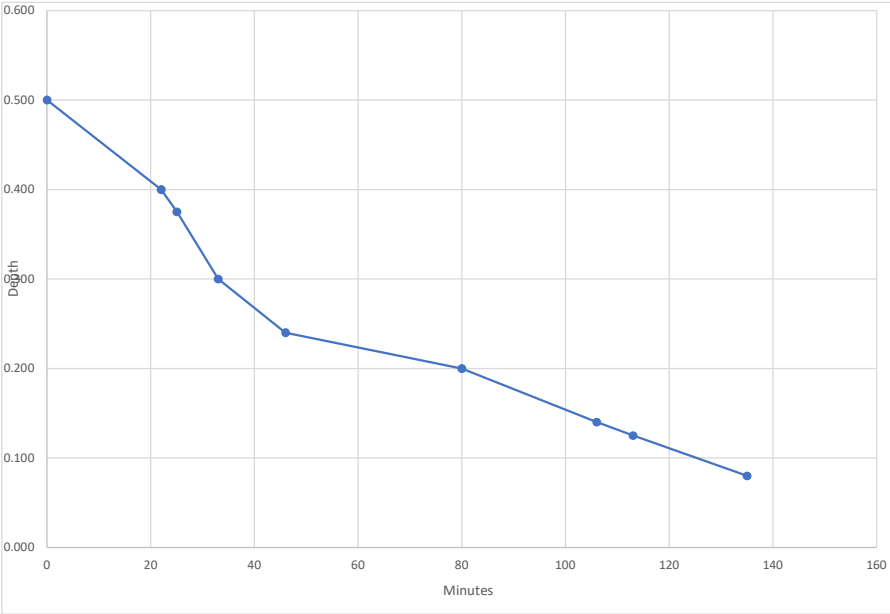
Allow level to fall to near empty (**the water must drop below 80% of the filled water depth to be a valid test**) and then repeat the test twice more. The depth should be measured down from GL to the top of the water.

	Infiltration Test - Data record	Test Pit Ref (job no./pit no.)	Pit 2
		Sheet	2 of 3
Client:	KJ FOX		
Scheme:			
Location	UPPER BOGNOR ROAD		
Prepared by:	TOM HOWARD	date:	9/2/2022
Approved by:		date:	

Pit Length	1000mm
Pit Width	1000mm
Pit Depth	1000mm

[illegible][illegible][illegible]

	Minutes	Depth	
14:00	0	0.500	
14:22	22	0.400	
14:25	25	0.375	75%
14:33	33	0.300	
14:46	46	0.240	
15:20	80	0.200	
15:46	106	0.140	
15:53	113	0.125	25%
16:15	135	0.080	

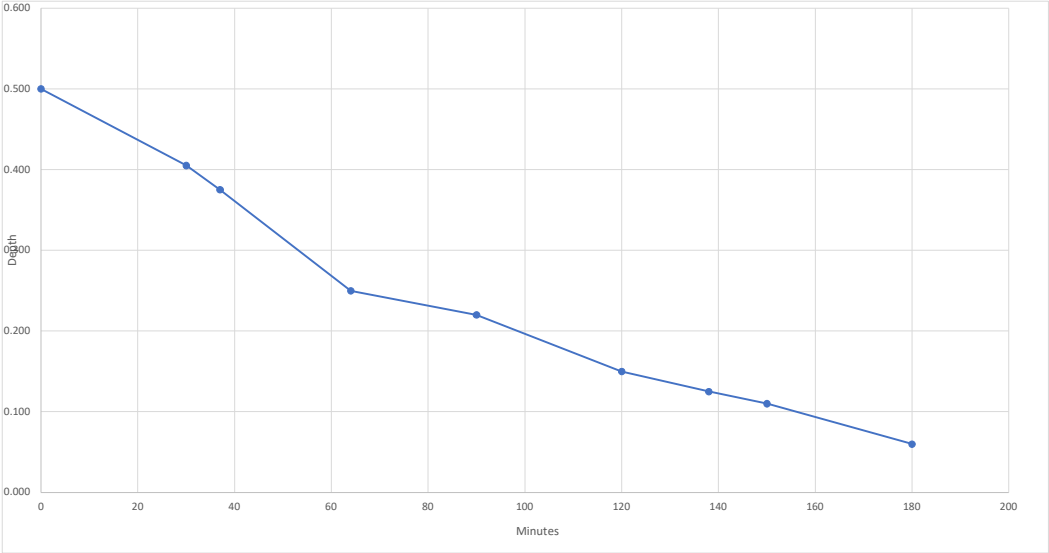


Soakaway Calculations		
Soakaway Test No.	Pit 1 Test 1	
Contract:	65 Upper Bognor Road	
Job No.	P1847	
Field Test		
Depth of Pit	1.00	m
Width of Pit	1.00	m
Length of Pit	1.00	m
Depth of Pit Soaked	0.50	m
ap50	2 m2	
Vp75-25	0.25 m3	
t75-25	88.0 min	
water used	0.5000 m3	
f	2.367E-05 m/sec.	

Minutes	Depth
07:45	0
08:15	30
08:22	37
08:49	64
09:15	90
09:45	120
10:03	138
10:15	150
10:45	180

75%

25%

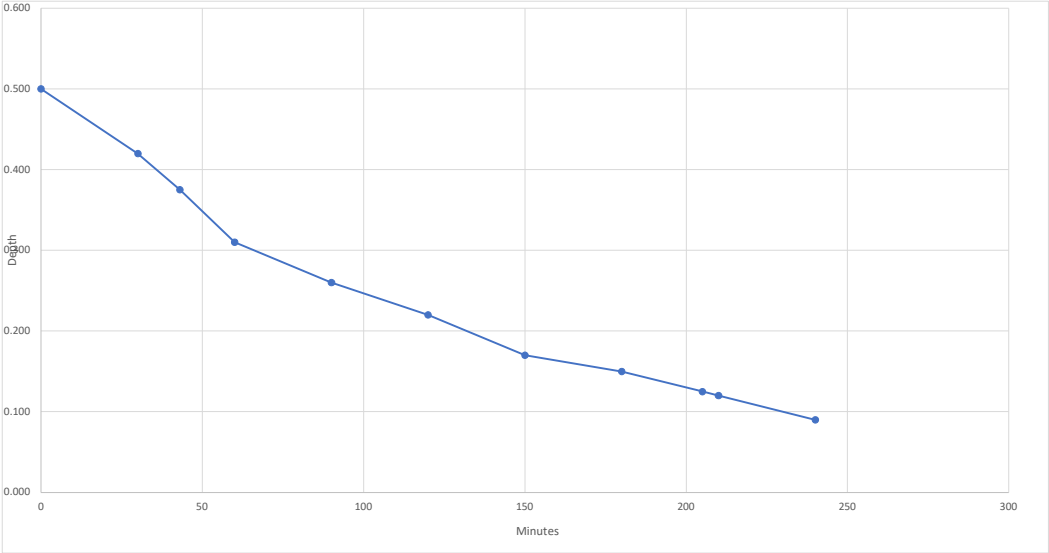


Soakaway Calculations	
Soakaway Test No.	
Contract:	
Job No.	
Field Test	
Depth of Pit	1.00 m
Width of Pit	1.00 m
Length of Pit	1.00 m
Depth of Pit Soaked	0.50 m
ap50	2 m2
Vp75-25	0.25 m3
t75-25	101.0 min
water used	0.5000 m3
f	2.063E-05 m/sec.

Minutes	Depth
11:15	0
11:45	30
11:58	43
12:15	60
12:45	90
13:15	120
13:45	150
14:15	180
14:40	205
14:45	210
15:15	240

75%

25%

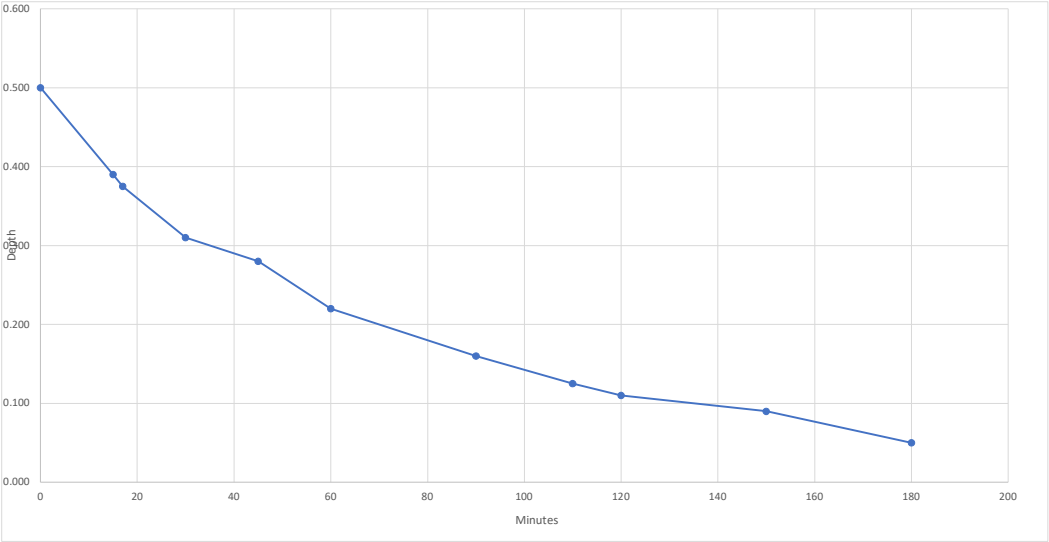


Soakaway Calculations	
Soakaway Test No.	Pit 1 Test 3
Contract:	65 Upper Bognor Road
Job No.	P1847
Field Test	
Depth of Pit	1.00 m
Width of Pit	1.00 m
Length of Pit	1.00 m
Depth of Pit Soaked	0.50 m
ap50	2 m2
Vp75-25	0.25 m3
t75-25	162.0 min
water used	0.5000 m3
f	1.286E-05 m/sec.

Minutes	Depth
07:45	0
08:00	15
08:02	17
08:15	30
08:30	45
08:45	60
09:15	90
09:35	110
09:45	120
10:15	150
10:45	180

75%

25%

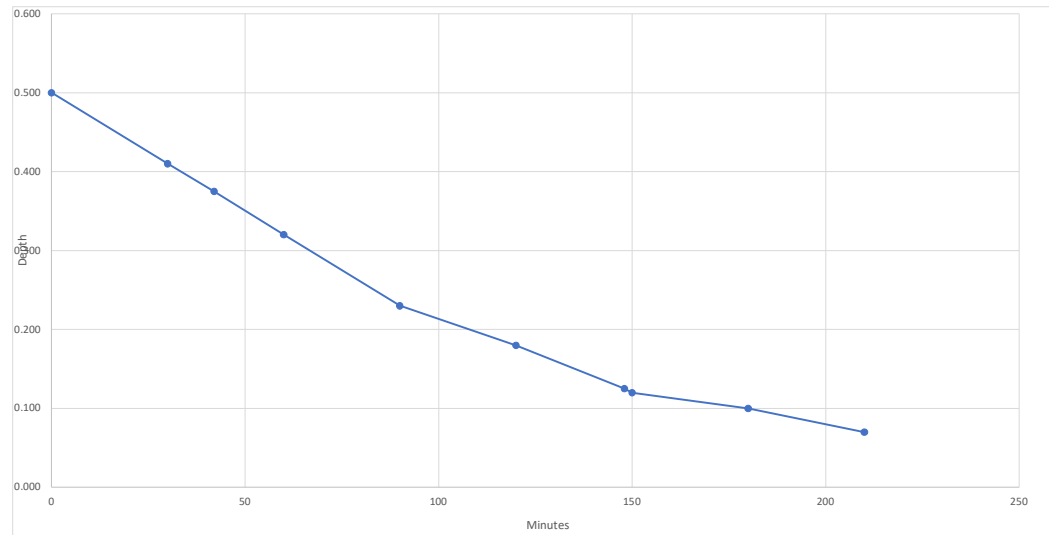


Soakaway Calculations		
Soakaway Test No.		
Contract:		
Job No.		
Field Test		
Depth of Pit	1.00	m
Width of Pit	1.00	m
Length of Pit	1.00	m
Depth of Pit Soaked	0.50	m
ap50	2	m2
Vp75-25	0.25	m3
t75-25	93.0	min
water used	0.5000	m3
f	2.240E-05	m/sec.

	Minutes	Depth	
07:45	0	0.500	
08:15	30	0.410	
08:27	42	0.375	75%
08:45	60	0.320	
09:15	90	0.230	
09:45	120	0.180	
10:13	148	0.125	25%
10:15	150	0.120	
10:45	180	0.100	
11:15	210	0.070	

75%

25%

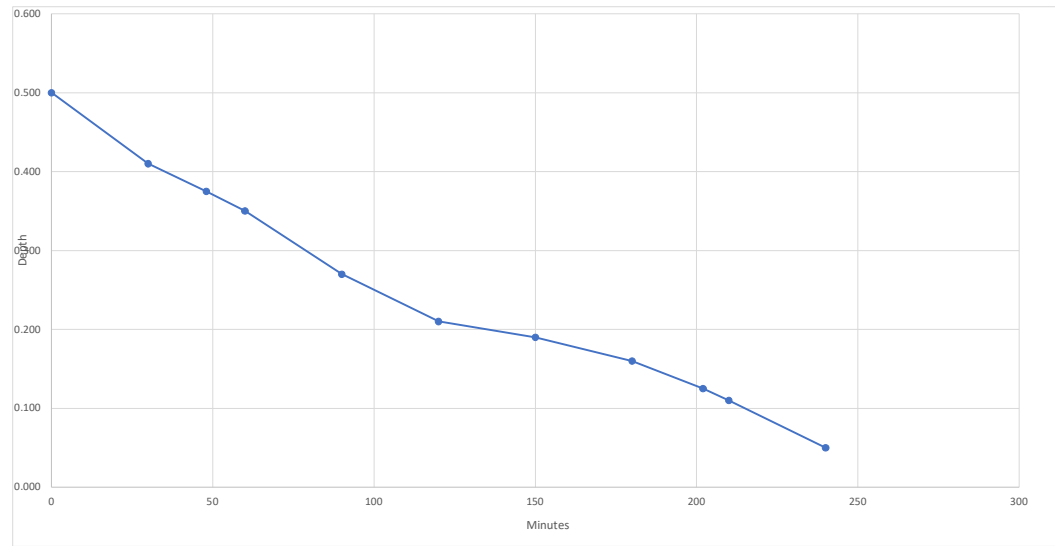


Soakaway Calculations		
Soakaway Test No. Pit 2 Test 2		
Contract: 65 Upper Bognor Road		
Job No. P1847		
Field Test		
Depth of Pit	1.00 m	
Width of Pit	1.00 m	
Length of Pit	1.00 m	
Depth of Pit Soaked	0.50 m	
ap50	2 m2	
Vp75-25	0.25 m3	
t75-25	106.0 min	
water used	0.5000 m3	
f	1.965E-05 m/sec.	

Minutes	Depth
08:00	0
08:30	30
08:48	48
09:00	60
09:30	90
10:00	120
10:30	150
11:00	180
11:22	202
11:30	210
12:00	240

75%

25%

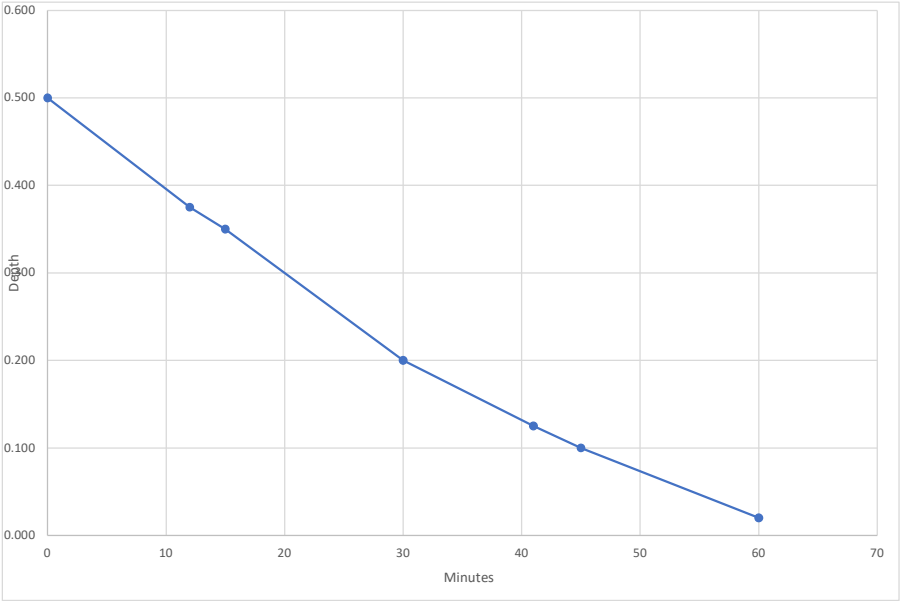


Soakaway Calculations		
Soakaway Test No.		
Contract:		
Job No.		
Field Test		
Depth of Pit	1.00	m
Width of Pit	1.00	m
Length of Pit	1.00	m
Depth of Pit Soaked	0.50	m
ap50	2	m2
Vp75-25	0.25	m3
t75-25	154.0	min
water used	0.5000	m3
f	1.353E-05	m/sec.

	Minutes	Depth	
07:30	0	0.500	
07:42	12	0.375	75%
07:45	15	0.350	
08:00	30	0.200	
08:11	41	0.125	25%
08:15	45	0.100	
08:30	60	0.020	

75%

25%

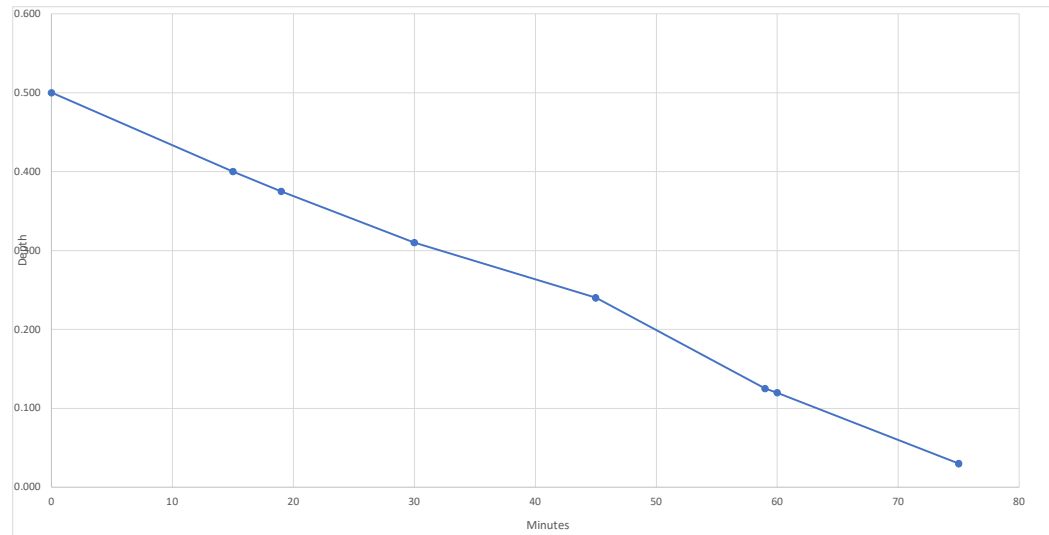


Soakaway Calculations		
Soakaway Test No.	Pit 1 Test 1	
Contract:	65 Upper Bognor Road	
Job No.	P1847	
Field Test		
Depth of Pit	0.50	m
Width of Pit	0.50	m
Length of Pit	0.50	m
Depth of Pit Soaked	0.50	m
ap50	0.75	m2
Vp75-25	0.0625	m3
t75-25	29.0	min
water used	0.1250	m3
f	4.789E-05	m/sec.

	Minutes	Depth
09:00	0	0.500
09:15	15	0.400
09:19	19	0.375
09:30	30	0.310
09:45	45	0.240
09:59	59	0.125
10:00	60	0.120
10:15	75	0.030

75%

25%

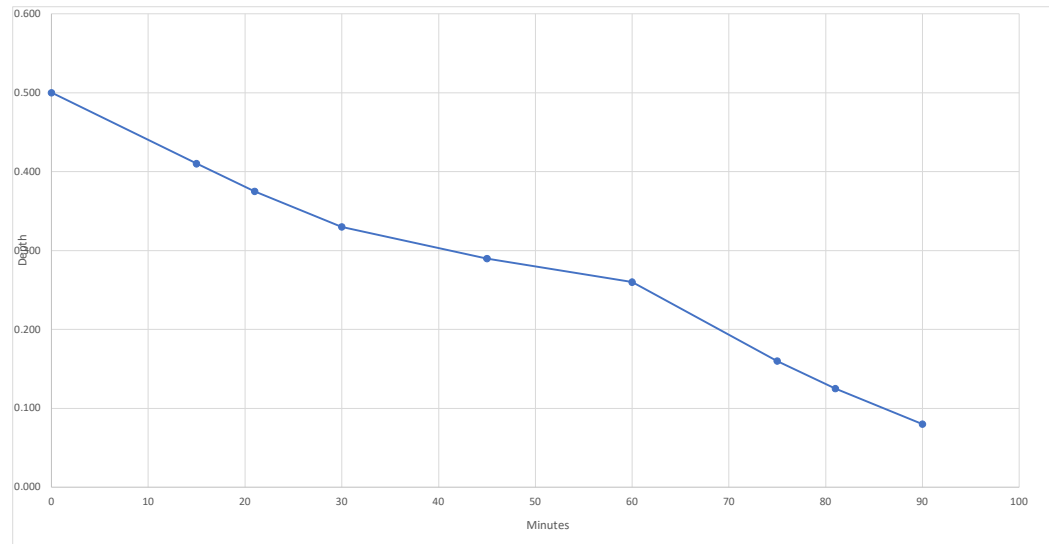


Soakaway Calculations		
Soakaway Test No.		
Contract:		
Job No.		
Field Test		
Depth of Pit	0.50	m
Width of Pit	0.50	m
Length of Pit	0.50	m
Depth of Pit Soaked	0.50	m
ap50	0.75	m2
Vp75-25	0.0625	m3
t75-25	40.0	min
water used	0.1250	m3
f	3.472E-05	m/sec.

Minutes	Depth
10:30	0
10:45	15
10:51	21
11:00	30
11:15	45
11:30	60
11:45	75
11:51	81
12:00	90
	0.500
	0.410
	0.375
	0.330
	0.290
	0.260
	0.160
	0.125
	0.080

75%

25%



Soakaway Calculations		
Soakaway Test No.		
Contract:		
Job No.		
Field Test		
Depth of Pit	0.50	m
Width of Pit	0.50	m
Length of Pit	0.50	m
Depth of Pit Soaked	0.50	m
ap50	0.75	m2
Vp75-25	0.0625	m3
t75-25	60.0	min
water used	0.1250	m3
f	2.315E-05	m/sec.