Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 09

TP 09 – spoil

Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 10

TP 10 – spoil

Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 11

TP 11 – spoil

Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 12

TP 12 – spoil

Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 13

TP 13 – spoil

Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA

TRIAL PIT PHOTOGRAPHY RECORD
TP 14

TP 14 – spoil

Appendix IV BRE Digest 365 Test

Soakaway Design f -value from field tests

IGSL

Contract: Monaghan, Active Travel 24665
Test No. SA01
Engineer CORA
Date: 04/05/2023

Summary of ground conditions

from	to	Description	Ground water
0.00	0.25	TOPSOIL	DRY
0.25	0.50	Soft, brown, slightly sandy slightly gravelly CLAY with low hair roots content	
0.50	1.30	Soft to firm, brown/grey mottled, slightly sandy gravelly slightly silty CLAY with high subangular to angular cobbles and boulders content	
1.30		Obstruction - boulders	

Location: E:667491.477; N:833784.047; G.L. 71.944mOD
Notes: SA01 done for Civic Offices project

Field Data

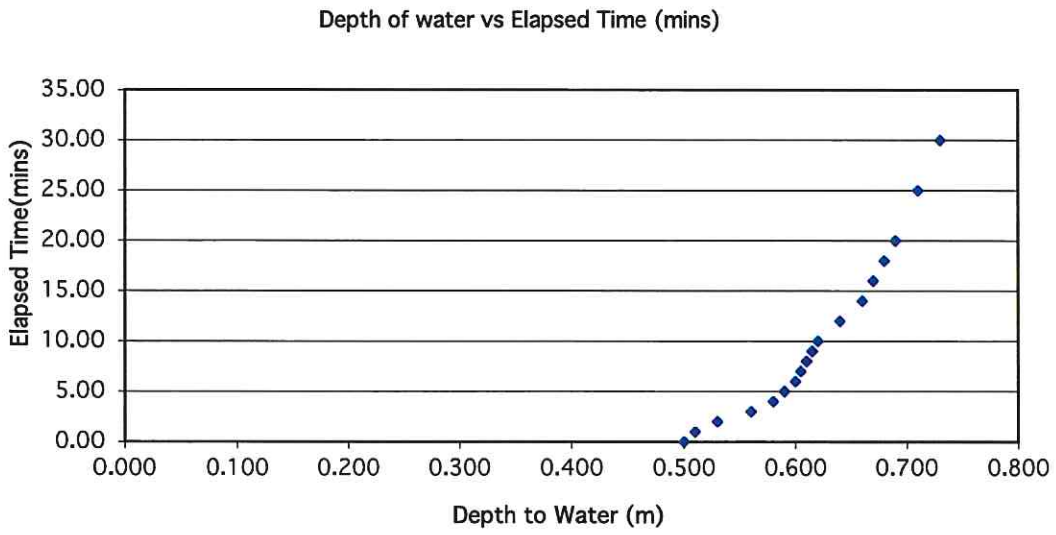
Depth to Water (m)	Elapsed Time (min)
0.500	0.00
0.510	1.00
0.530	2.00
0.560	3.00
0.580	4.00
0.590	5.00
0.600	6.00
0.605	7.00
0.610	8.00
0.615	9.00
0.620	10.00
0.640	12.00
0.660	14.00
0.670	16.00
0.680	18.00
0.690	20.00
0.710	25.00
0.730	30.00

Field Test

Depth of Pit (D)	1.30	m
Width of Pit (B)	0.50	m
Length of Pit (L)	2.00	m
Initial depth to Water =	0.50	m
Final depth to water =	0.73	m
Elapsed time (mins)=	30.00	
Top of permeable soil		m
Base of permeable soil		m
Base area=	1	m2
*Av. side area of permeable stratum over test perio	3.425	m2
Total Exposed area =	4.425	m2

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00173 m/min or 2.88763E-05 m/sec



Soakaway Design f -value from field tests

IGSL

Contract: Monaghan, Active Travel
Test No. SA02
Engineer CORA
Date: 04/05/2023

24665

Summary of ground conditions

from	to	Description	Ground water
0.00	0.20	TOPSOIL	DRY
0.20	0.70	Soft to firm, brown, slightly sandy slightly gravelly CLAY with medium cobbles	
0.70	1.60	Firm to stiff, greyish brown, slightly sandy gravelly slightly silty CLAY with low subangular to angular cobbles and boulders content	

Location: E:667480.695; N:833861.983; G.L. 75.647mOD
Notes: SA02 done for Civic Offices project

Field Data

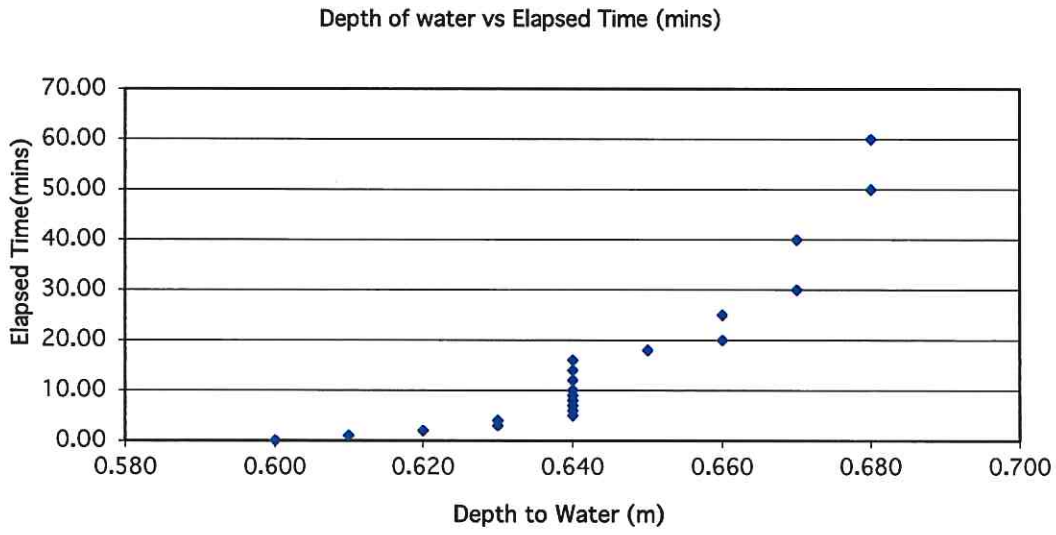
Depth to Water (m)	Elapsed Time (min)
0.600	0.00
0.610	1.00
0.620	2.00
0.630	3.00
0.630	4.00
0.640	5.00
0.640	6.00
0.640	7.00
0.640	8.00
0.640	9.00
0.640	10.00
0.640	12.00
0.640	14.00
0.640	16.00
0.650	18.00
0.660	20.00
0.660	25.00
0.670	30.00
0.670	40.00
0.680	50.00
0.680	60.00

Field Test

Depth of Pit (D)	1.60	m
Width of Pit (B)	0.50	m
Length of Pit (L)	2.00	m
Initial depth to Water =	0.60	m
Final depth to water =	0.68	m
Elapsed time (mins)=	60.00	
Top of permeable soil		m
Base of permeable soil		m
Base area=	1	m2
*Av. side area of permeable stratum over test perio	4.8	m2
Total Exposed area =	5.8	m2

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00023 m/min or 3.83142E-06 m/sec



Soakaway Design f -value from field tests

IGSL

Contract: Monaghan, Active Travel
Test No. SA03
Engineer CORA
Date: 04/05/2023

24665

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	TOPSOIL	DRY
0.30	1.60	Firm to stiff, greyish brown, slightly sandy gravelly slightly silty CLAY with high cobbles and low boulders content	

Location: E:667448.448; N:833888.586; G.L. 83.582mOD
Notes: SA03 done for Civic Offices project

Field Data

Depth to Water (m)	Elapsed Time (min)
0.540	0.00
0.540	1.00
0.540	2.00
0.540	3.00
0.550	4.00
0.550	5.00
0.550	6.00
0.550	7.00
0.550	8.00
0.550	9.00
0.550	10.00
0.550	12.00
0.550	14.00
0.550	16.00
0.550	18.00
0.550	20.00
0.550	25.00
0.550	30.00

Field Test

Depth of Pit (D)	1.60	m
Width of Pit (B)	0.50	m
Length of Pit (L)	2.00	m
Initial depth to Water =	0.54	m
Final depth to water =	0.55	m
Elapsed time (mins)=	30.00	
Top of permeable soil		m
Base of permeable soil		m

Water movement stoped at 0.55m

Base area=	1	m2
*Av. side area of permeable stratum over test perio	5.275	m2
Total Exposed area =	6.275	m2

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 5.3E-05 m/min or 8.85347E-07 m/sec