

Soakaway Design f -value from field tests

IGSL

Contract: Monaghan, Active Travel

24665

Test No. SA04

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, sl. sandy sl. gravelly CLAY with low cobbles and hair roots content	
0.50	1.30	Firm to stiff, brown, slightly sandy gravelly CLAY with high subangular to subround cobbles and low boulders content	
1.30		Obstruction - boulders	

Location: E:667494.53; N:833936.177; G.L. 79.506mOD

Notes: SA04 done for Civic Offices project

Field Data

Depth to Water (m)	Elapsed Time (min)
0.480	0.00
0.480	1.00
0.480	2.00
0.480	3.00
0.480	4.00
0.480	5.00
0.480	6.00
0.480	7.00
0.480	8.00
0.480	9.00
0.480	10.00
0.480	12.00
0.480	14.00
0.480	16.00
0.480	18.00
0.480	20.00
0.480	25.00
0.480	30.00

Field Test

Depth of Pit (D)	1.30	m
Width of Pit (B)	0.50	m
Length of Pit (L)	1.50	m

Initial depth to Water =	0.48	m
Final depth to water =	0.48	m
Elapsed time (mins)=	30.00	

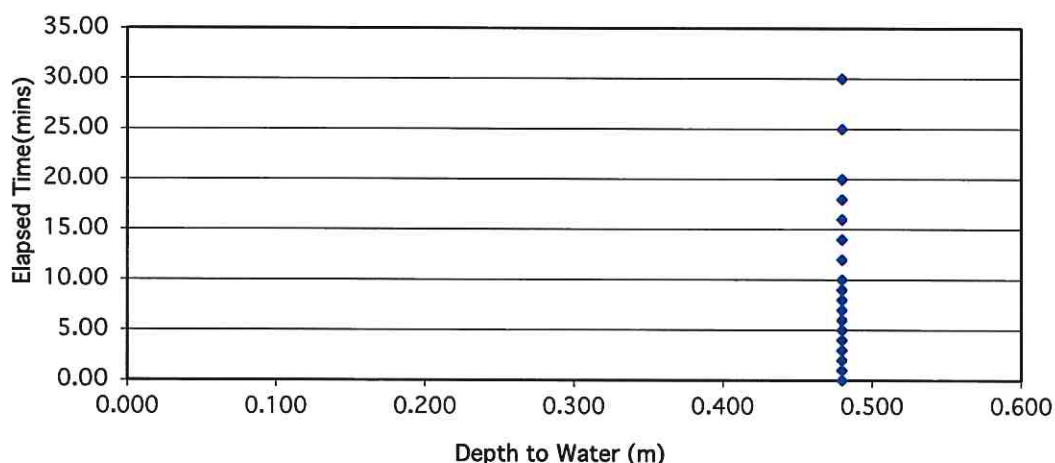
Top of permeable soil		m
Base of permeable soil		m

No Water Movement

Base area=	0.75	m ²
*Av. side area of permeable stratum over test period	3.28	m ²
Total Exposed area =	4.03	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time |
f= 0 m/min or 0 m/sec

Depth of water vs Elapsed Time (mins)



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



TRIAL PIT PHOTOGRAPHY RECORD
SA 01



SA 01 – spoil



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



TRIAL PIT PHOTOGRAPHY RECORD
SA 02



SA 02 – spoil



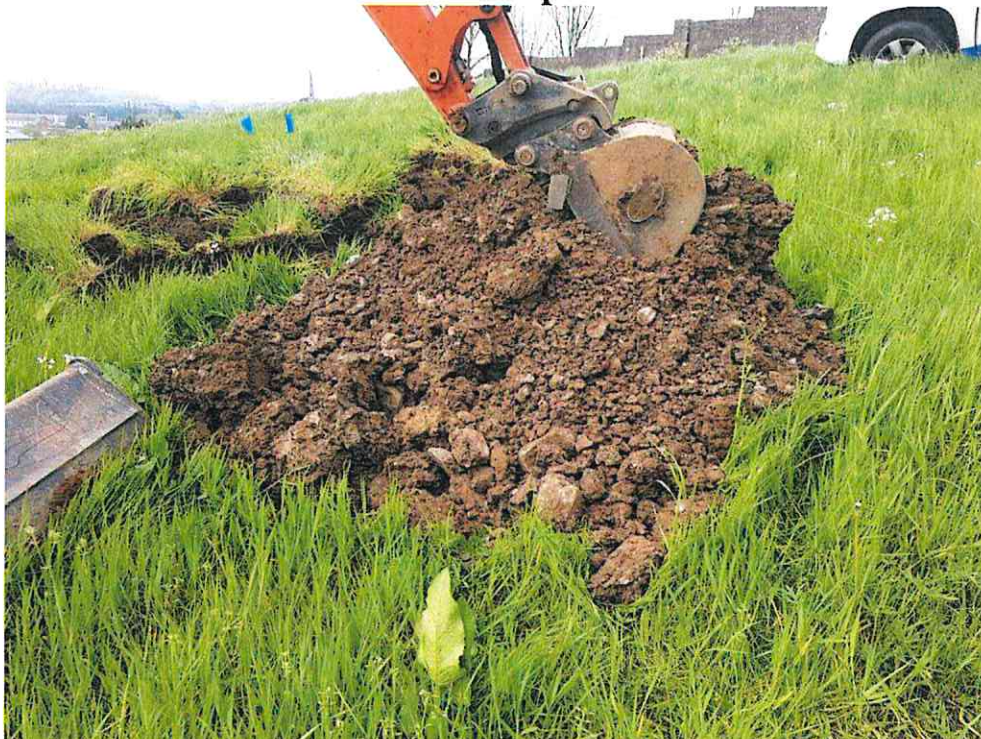
Project Number: 24665
Site: Monaghan Active Travel
Project Engineer: DBFL/CORA



TRIAL PIT PHOTOGRAPHY RECORD
SA 03



SA 03 – spoil



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



TRIAL PIT PHOTOGRAPHY RECORD
SA 04



SA 04 – spoil



Appendix Va Geotechnical Laboratory Data

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)

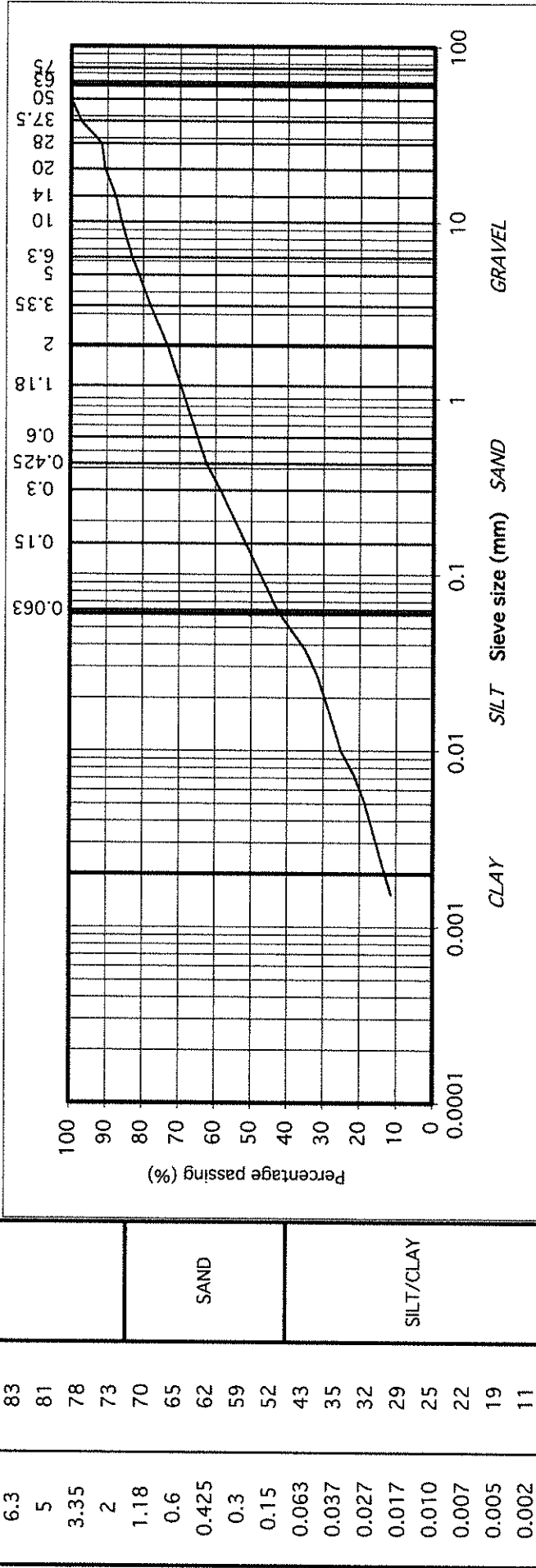


Contract No.	24665/1	Report No.	R147892
Contract Name :	Monaghan Town Active Travel Development Site		
BH/TP No.	BH04A		
Sample No.*	AA192941	Lab. Sample No.	A23/1713
Sample Type:	B		
Depth* (m)	3.00	Customer:	CORA
Date Received	09/06/2023	Date Testing started	09/06/2023
Description:	Grey slightly sandy, slightly gravelly, SILT/CLAY		

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
This report shall not be reproduced except in full without the written approval of the Laboratory.

Remarks

Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .



IGSL Ltd Materials Laboratory

Approved by:	Date:	Page no:
<i>[Signature]</i>	18/07/23	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

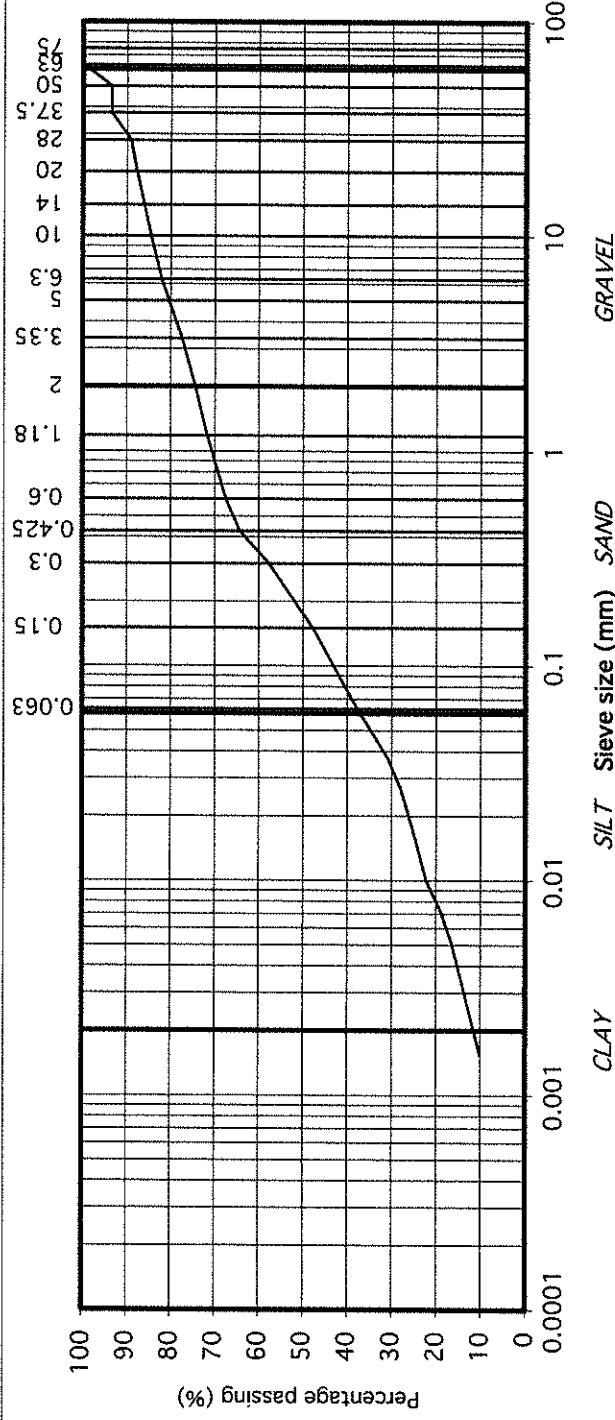
Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing	Contract No.	24665/1	Report No.	R147893
75	100	Contract Name :	Monaghan Town Active Travel Development Site		
63	100	BH/TP No.	BH08		
50	94	Sample No.*	AA192947	Lab. Sample No.	A23/1715
37.5	94	Sample Type:	B		
28	89	Depth* (m)	2.00	Customer:	CORA
20	88	Date Received	09/06/2023	Date Testing started	09/06/2023
14	86	Description:	Grey sandy, slightly gravelly, SILT/CLAY		
10	85				
6.3	82				
5	80				
3.35	77				
2	74				
1.18	72				
0.6	67				
0.425	64				
0.3	58				
0.15	48				
0.063	38				
0.037	31				
0.027	28				
0.017	25				
0.010	22				
0.007	19				
0.005	17				
0.002	10				

Remarks

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TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)

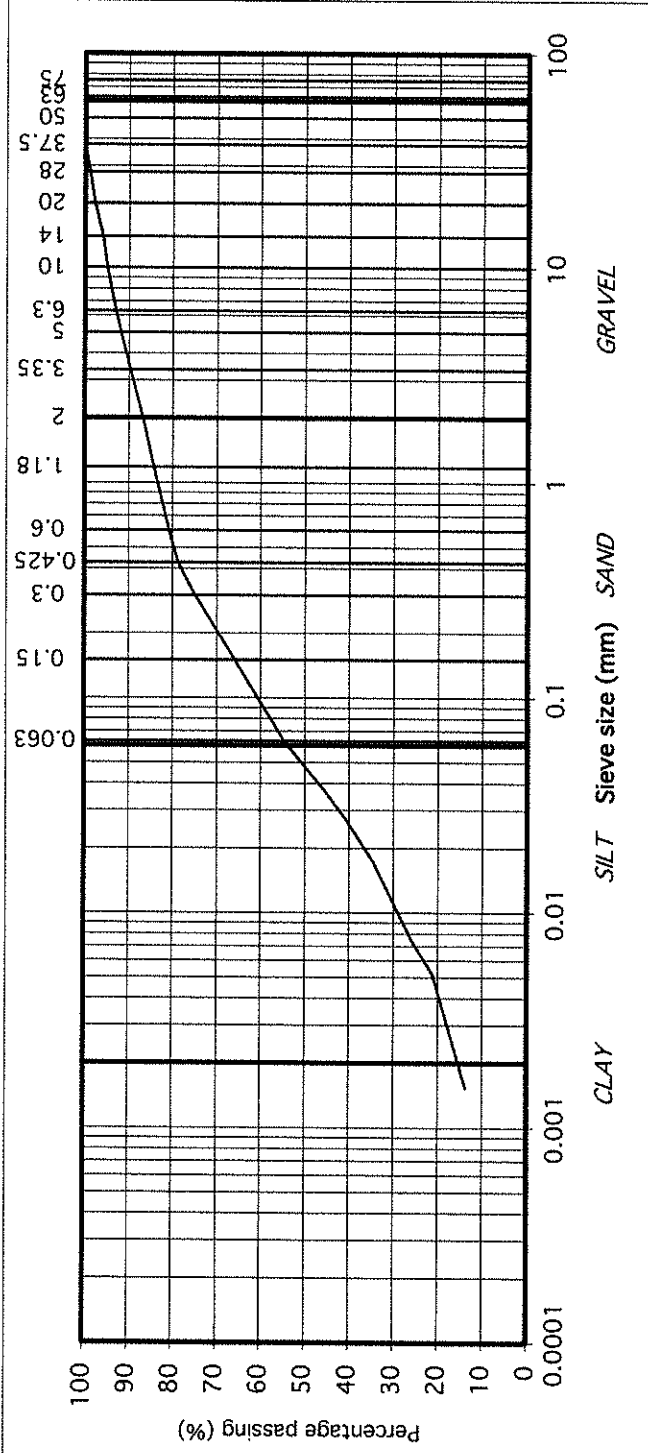


Contract No.	24665/1	Report No.	R147894
Contract Name :	Monaghan Town Active Travel Development Site		
BH/TP No.	TP05		
Sample No.*	AA200182	Lab. Sample No.	A23/1718
Sample Type:	B		
Depth* (m)	0.70	Customer:	CORA
Date Received	09/06/2023	Date Testing started	09/06/2023
Description:	Brown slightly sandy, slightly gravelly, SILT/CLAY		

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