



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site				DRILLHOLE NO	RC02
CO-ORDINATES				SHEET	Sheet 1 of 2
GROUND LEVEL (mOD)				DATE DRILLED	25/05/2023
CLIENT Monaghan Co.Co.				DATE LOGGED	25/05/2023
ENGINEER CORA				DRILLED BY	IGSL - JK
RIG TYPE Beretta T44				LOGGED BY	D.O'Shea
FLUSH Air/Mist					
INCLINATION (deg) -90					
CORE DIAMETER (mm) 78					

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of soft CLAY.				
1	1.50	0	0	0								
2		0	0	0								
3	3.00											
4		0	0	0								N = 24 (3, 2, 4, 7, 7, 6)
5	4.50							SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY with occasional cobbles	4.50			N = 53 (7, 7, 11, 10, 15, 17)
6		0	0	0								N = 43 (4, 6, 10, 10, 10, 13)
7	6.00											
8		0	0	0								N = 51 (17, 9, 11, 13, 13, 14)
9	7.50											
		0	0	0								N = 51/102 mm (7, 18, 33, 18)
	9.00											
		0	0	0								

REMARKS					WATER STRIKE DETAILS				
Hole cased from 0.00-10.50m					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
					No water strike recorded				
INSTALLATION DETAILS					GROUNDWATER DETAILS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
25-05-23	10.50	1.00	10.50	50mm SP					

IGSL RC Fl 10M 24665 - MAIN SITE.GPJ IGSL GDT 8/8/23



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CONTRACT Monaghan Active Travel - Main Site				DRILLHOLE NO	RC02
CO-ORDINATES				SHEET	Sheet 2 of 2
GROUND LEVEL (mOD)				DATE DRILLED	25/05/2023
CLIENT Monaghan Co.Co.				DATE LOGGED	25/05/2023
ENGINEER CORA				DRILLED BY	IGSL - JK
RIG TYPE Beretta T44				LOGGED BY	D.O'Shea
FLUSH Air/Mist					
INCLINATION (deg) -90					
CORE DIAMETER (mm) 78					

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10	10.50				0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY with occasional cobbles (continued)	10.50			N = 48 (6, 8, 11, 12, 13)
11								End of Borehole at 10.50 m				
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS					WATER STRIKE DETAILS				
Hole cased from 0.00-10.50m					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
									Comments
					GROUNDWATER DETAILS				
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					
25-05-23	10.50	1.00	10.50	50mm SP					

IGSL RC FL 10M 24665 - MAIN SITE.GPJ IGSL GDT 6/8/23



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

DRILLHOLE NO RC03

CO-ORDINATES

SHEET Sheet 1 of 2

GROUND LEVEL (mOD)

RIG TYPE

Beretta T44

FLUSH

Air/Mist

DATE DRILLED 26/05/2023

DATE LOGGED 28/05/2023

CLIENT Monaghan Co.Co.

INCLINATION (deg)

-90

ENGINEER CORA

CORE DIAMETER (mm)

78

DRILLED BY IGSL - JK

LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R. %	S.C.R. %	R.Q.D. %	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY with occasional cobbles				
1												
2												
3												N = 57 (9, 13, 17, 11, 15, 14)
4	0	0	0									N = 50 (5, 11, 10, 17, 11, 12)
5												N = 47 (4, 7, 9, 9, 14, 15)
6												N = 53 (4, 11, 11, 13, 13, 16)
7												
8	8.10							Returns of stiff to very stiff, dark brown, slightly sandy, gravelly CLAY, with occasional cobbles. Sand is fine. Gravel is angular to subrounded fine to coarse of limestone. Cobbles are of limestone.	8.10			N = 50 (8, 11, 12, 13, 10, 15)
9	9.10	100	0	0								
		71	0	0								

REMARKS

Hole cased from 0.00-8.00m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

GROUNDWATER DETAILS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

IGSL RC FI 10M 24665 - MAIN SITE.GPJ IGSL_GDT_6/8/23



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

DRILLHOLE NO RC03

SHEET Sheet 2 of 2

CO-ORDINATES

GROUND LEVEL (mOD)

RIG TYPE

Beretta T44

FLUSH

Air/Mist

DATE DRILLED 26/05/2023

DATE LOGGED 28/05/2023

CLIENT Monaghan Co.Co.

INCLINATION (deg)

-90

ENGINEER CORA

CORE DIAMETER (mm)

78

DRILLED BY IGSL - JK

LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R. %	S.C.R. %	R.Q.D. %	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10	10.50				0 250 500			End of Borehole at 10.50 m	10.50			
11												
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS

Hole cased from 0.00-8.00m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

GROUNDWATER DETAILS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
					29-05-23	10.50	8.00	10.40	Water levels recorded 5 mins after end of drilling.



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

DRILLHOLE NO RC06

CO-ORDINATES

SHEET Sheet 1 of 2

GROUND LEVEL (mOD)

RIG TYPE

Beretta T44

FLUSH

Air/Mist

DATE DRILLED 23/05/2023

DATE LOGGED 23/05/2023

CLIENT Monaghan Co.Co.

INCLINATION (deg)

-90

ENGINEER CORA

CORE DIAMETER (mm)

78

DRILLED BY IGSL - JK

LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R. %	S.C.R. %	R.Q.D. %	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of CLAY.				
1	1.50	0	0	0					1.50			
2	2.60	73	0	0				Returns of stiff to very stiff, dark brown, slightly sandy, gravelly CLAY, with occasional cobbles. Sand is fine. Gravel is angular to subrounded fine to coarse of limestone. Cobbles are of limestone.	2.60			
3		0	0	0				SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY with occasional cobbles				N = 57 (13, 12, 27, 11, 9, 10)
4	4.00											
5	5.50	100	0	0								N = 55 (6, 17, 18, 11, 12, 14)
6		0	0	0								N = 44 (5, 7, 10, 11, 10, 13)
7	7.00											
8	8.50	0	0	0								N = 46 (8, 9, 8, 14, 13, 11)
9		0	0	0								N = 10/75 mm (7, 14, 10)
10	10.00											

REMARKS

Hole cased from 0.00-15.00m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

GROUNDWATER DETAILS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

DRILLHOLE NO RC06

CO-ORDINATES

SHEET Sheet 2 of 2

GROUND LEVEL (mOD)

RIG TYPE

Beretta T44

FLUSH

Air/Mist

DATE DRILLED 23/05/2023

DATE LOGGED 23/05/2023

CLIENT Monaghan Co.Co.

INCLINATION (deg)

-90

DRILLED BY IGSL - JK

ENGINEER CORA

CORE DIAMETER (mm)

78

LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-Intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY with occasional cobbles (<i>continued</i>)				N = 46 (4, 11, 12, 9, 11, 14)
11	11.50	0	0	0								
12		0	0	0								N = 55 (15, 16, 19, 11, 12, 13)
13	13.00											
13	13.50	0	0	0					13.50			
14		100	0	0				Returns of stiff to very stiff, dark brown, slightly sandy, gravelly CLAY, with occasional cobbles. Sand is fine. Gravel is angular to subrounded fine to coarse of limestone. Cobbles are of limestone.				N = 50/32 mm (25, 50)
14	15.00											
15								End of Borehole at 15.00 m	15.00			
16												
17												
18												
19												

REMARKS

Hole cased from 0.00-15.00m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

GROUNDWATER DETAILS

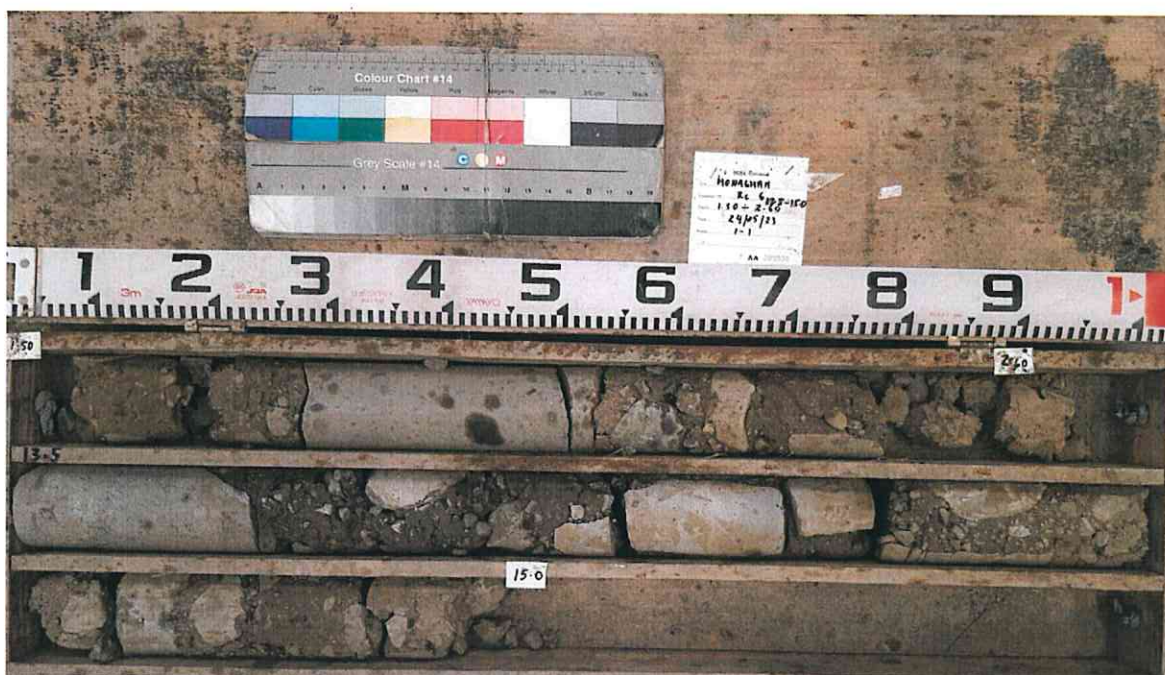
INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
					23-05-23	15.00	15.00	13.40	Water levels recorded 5 mins after end of drilling.

RC03 – Box 1 of 1 – 8.10-10.50m



RC06 – Box 1 of 1 – 1.50-15.00m



**Appendix III Trial Pit Records
Photographs**



TRIAL PIT RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel

TRIAL PIT NO. TP01

SHEET Sheet 1 of 1

LOGGED BY I.Reder

CO-ORDINATES 667,406.85 E
833,817.07 N

DATE STARTED 28/04/2023

DATE COMPLETED 28/04/2023

CLIENT Monaghan Co.Co.

GROUND LEVEL (m) 72.34

EXCAVATION METHOD 3T Tracked machine

ENGINEER DBFL/Cora

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL									
	Firm, greyish brown to brown, slightly sandy gravelly CLAY with medium cobbles content. Sand is fine to coarse, gravel is fine to coarse subangular to subrounded, cobbles are small to coarse subangular to subrounded		0.25	72.09						
						AA200193	B	0.70		
1.0	Firm to stiff, grey, slightly sandy gravelly slightly silty CLAY with high cobbles and boulders content. Sand is fine to coarse, gravel is fine to coarse subangular to subrounded, cobbles and boulders are subangular to angular.		0.90	71.44						
						AA200194	B	1.60		
2.0	TP terminated at 1.8m due to many boulders End of Trial Pit at 1.80m		1.80	70.54						
3.0										
4.0										

Groundwater Conditions

TP dry

Stability

TP stable

General Remarks

TP done for civic offices project



TRIAL PIT RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel

TRIAL PIT NO. TP02

SHEET Sheet 1 of 1

LOGGED BY I.Redder

CO-ORDINATES 667,417.94 E
833,782.52 N

DATE STARTED 27/04/2023

DATE COMPLETED 27/04/2023

CLIENT Monaghan Co.Co.
ENGINEER DBFL/Cora

GROUND LEVEL (m) 69.34

EXCAVATION METHOD 3T Tracked machine

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL									
	Soft to firm, brown, slightly sandy slightly gravelly CLAY with low cobbles content. Sand is fine to coarse, gravel is fine to coarse subangular to subrounded, cobbles are small subangular to subrounded.		0.25	69.09						
			0.55	68.79						
	Dense, brownish grey, very clayey very sandy fine to coarse subrounded to subangular GRAVEL with high subangular to angular cobbles and boulders content.					AA200181	B	0.80		
1.0										
	TP terminated at 1.4m due to many boulders End of Trial Pit at 1.40m		1.40	67.94						
2.0										
3.0										
4.0										

Groundwater Conditions

TP dry

Stability

TP slightly unstable from 0.55m

General Remarks

TP done for civic offices project