



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH02

CO-ORDINATES

RIG TYPE

Dando 2000

SHEET

Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

DATE COMMENCED 13/05/2023

BOREHOLE DEPTH (m)

4.50

DATE COMPLETED 14/05/2023

CLIENT Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft brown sandy SILT/CLAY with occasional gravel			0.70	AA197801	B	0.50			
1	Stiff brown sandy SILT/CLAY with some gravel				AA197802	B	1.00		N = 6 (1, 0, 1, 1, 2, 2)	
2					AA197803	B	2.00		N = 26 (2, 3, 6, 8, 5, 7)	
3	Stiff to very stiff grey sandy gravelly CLAY with occasional cobbles			2.50	AA197804	B	3.00		N = 50/225 mm (4, 5, 9, 15, 26)	
4					AA197805	B	4.00		N = 50/150 mm (6, 10, 20, 30)	
5	Obstruction End of Borehole at 4.50 m			4.50						
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.7	0.9	1							
4.3	4.5	1.5							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date

Hole Depth

Casing Depth

Depth to Water

Comments

Date

Tip Depth

RZ Top

RZ Base

Type

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample

IGSL BH LOG 24665M.GPJ IGSL.GDT 28/5/23



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO.

BH03

CO-ORDINATES

RIG TYPE

Dando 2000

SHEET

Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

DATE COMMENCED 12/05/2023

BOREHOLE DEPTH (m)

3.70

DATE COMPLETED 12/05/2023

CLIENT

Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY

P.Allan

ENGINEER

DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft to firm brown sandy SILT/CLAY with occasional gravel				AA192934	B	0.50		N = 7 (1, 2, 1, 2, 2, 2)	
1					AA192935	B	1.00			
2				2.30	AA192936	B	2.00		N = 10 (2, 2, 2, 3, 2, 3)	
3	Very brown sandy gravelly CLAY with occasional cobbles				AA192937	B	3.00		N = 50 (6, 6, 10, 10, 20, 10)	
4	Obstruction End of Borehole at 3.70 m			3.70					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.7	2.9	1							No water strike
3.5	3.7	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO.

BH04

CO-ORDINATES

RIG TYPE

Dando 2000

SHEET

Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

DATE COMMENCED

12/05/2023

BOREHOLE DEPTH (m)

1.20

DATE COMPLETED

12/05/2023

CLIENT

Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY

P.Allan

ENGINEER

DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA192938	B	0.50		N = 50/75 mm (25, 50)	
	Grey SILT/CLAY with some gravel and occasional cobbles									
1				1.20						
	Obstruction End of Borehole at 1.20 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.1	1.2	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date

Hole Depth

Casing Depth

Depth to Water

Comments

Date

Tip Depth

RZ Top

RZ Base

Type

REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH04A and attempted rebore .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH04A

CO-ORDINATES

RIG TYPE

Dando 2000

SHEET

Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

DATE COMMENCED 13/05/2023

BOREHOLE DEPTH (m)

4.50

DATE COMPLETED 13/05/2023

CLIENT

Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY

P.Allan

ENGINEER

DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Stiff brown sandy SILT/CLAY with some gravel				AA192939	B	1.00			
1										
					AA192940	B	2.00		N = 21 (2, 2, 3, 6, 8, 4)	
2				2.50						
	Very stiff grey sandy gravelly CLAY with some cobbles				AA192941	B	3.00		N = 50 (4, 4, 5, 10, 20, 15)	
3										
					AA192942	B	4.00		N = 40/150 mm (6, 10, 19, 21) N = 50/75 mm (25, 50)	
4				4.50						
	Obstruction End of Borehole at 4.50 m									
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.1	1.3	1							
4.4	4.5	1.5							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date

Hole Depth

Casing Depth

Depth to Water

Comments

Date

Tip Depth

RZ Top

RZ Base

Type

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH05

CO-ORDINATES

RIG TYPE Dando 2000

SHEET Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm) 200

DATE COMMENCED 15/05/2023

BOREHOLE DEPTH (m) 4.50

DATE COMPLETED 15/05/2023

CLIENT Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft to firm brown sandy SILT/CLAY with occasional gravel				AA192946	B	0.50			
1					AA192947	B	1.00		N = 6 (2, 6, 1, 1, 2, 2)	
2	Stiff to very stiff grey sandy gravelly CLAY with occasion cobbles			2.00	AA192948	B	2.00		N = 19 (2, 2, 3, 4, 5, 7)	
	Firm to stiff brown sandy gravelly CLAY with some cobbles									
3	Stiff to very stiff grey sandy gravelly CLAY with occasion cobbles				AA192949	B	3.00		N = 26 (2, 3, 4, 6, 8, 8)	
	Firm to stiff brown sandy gravelly CLAY with some cobbles									
4				4.50	AA192950	B	4.00		N = 50/150 mm (6, 8, 20, 30) N = 50/75 mm (17, 8, 50)	
5	Obstruction End of Borehole at 4.50 m									
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.7	3.9	1		4.50	4.50	No	3.50	0	Moderate
4.3	4.5	1.5							

GROUNDWATER PROGRESS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH06

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

1.00

DATE COMMENCED 16/05/2023

DATE COMPLETED 16/05/2023

CLIENT Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA197914	B	0.80		N = 50/75 mm (25, 50)	
	Very stiff brown sandy SILT/CLAY with some gravel and occasional cobbles			1.00						
1	Obstruction End of Borehole at 1.00 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.9	1	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH06A and attempted rebores.

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH06A

CO-ORDINATES

RIG TYPE

Dando 2000

SHEET

Sheet 1 of 1

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

BOREHOLE DEPTH (m)

1.00

DATE COMMENCED 16/05/2023

DATE COMPLETED 16/05/2023

CLIENT Monaghan Co.Co.

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C.

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA171709	B	0.80		N = 50/75 mm (25, 50)	
	Very stiff brown sandy SILT/CLAY with some gravel and occasional cobbles			1.00						
1	Obstruction End of Borehole at 1.00 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.9	1	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out.

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 24665M.GPJ IGSL GDT 26/5/23



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH07

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

1.00

DATE COMMENCED 16/05/2023

DATE COMPLETED 16/05/2023

CLIENT Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Very stiff brown sandy SILT/CLAY with some gravel and occasional cobbles									
1	Obstruction End of Borehole at 1.00 m			1.00	AA171710	B	0.80		N = 50/75 mm (25, 50)	
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.9	1	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 24665M.GPJ IGSL GDT 26/5/23



GEOTECHNICAL BORING RECORD

REPORT NUMBER

24665

CONTRACT Monaghan Active Travel - Main Site

BOREHOLE NO. BH08

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm) 200

DATE COMMENCED 14/05/2023

BOREHOLE DEPTH (m) 3.40

DATE COMPLETED 14/05/2023

CLIENT Monaghan Co.Co.

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Firm brown sandy SILT/CLAY with occasional gravel				AA192945	B	0.50		N = 12 (1, 2, 2, 2, 3, 5)	
1					AA192946	B	1.00			
				1.80						
2	Stiff to very stiff grey sandy gravelly CLAY with occasional cobbles				AA192947	B	2.00		N = 29 (2, 3, 3, 10, 10, 6)	N = 50/150 mm (10, 15, 25, 25) N = 50/75 mm (34, 25, 50)
3										
				3.40						
	Obstruction End of Borehole at 3.40 m									
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.6	2.8	0.75							No water strike
3.2	3.4	1.5							

GROUNDWATER PROGRESS

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

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

Appendix II Rotary Core Logs Photographs