AtkinsRéalis

Appendix 9-1 – Ground Investigation Report

Uisce Éireann
October 2026

BALLINA AND LOUGH TALT WATER SUPPLY UPGRADE

IRISH DRILLING LIMITED

LOUGHREA, CO. GALWAY, IRELAND

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SITE INVESTIGATION

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LOT 1 LOUGH TALT

GROUND INVESTIGATION CONTRACT FACTUAL REPORT

FINAL DRAFT

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Signature				

FOREWORD

The borehole, trial pit, slit trench and dynamic sampling records have been compiled from an examination of the samples by a Geotechnical Engineer and from the Drillers' descriptions.

The report presents an opinion on the configuration of the strata within the site based on the borehole, trial pit, slit trench and dynamic sampling results. The assumptions, though reasonable, are given for guidance only and no liability can be accepted for changes in conditions not revealed by the boreholes, trial pits, slit trenches and dynamic samples.

The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930, 2015 Code of Practice for Site Investigations with precedence given to IS EN 1997-2 where applicable.

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1.0 Introduction.

Irish Drilling Ltd. (IDL) was instructed by Irish Water to carry out a site investigation at the site of the proposed Lough Talt Wastewater Treatment Plant & Pipeline Upgrade Project.

This site investigation was carried out to provide detailed factual geotechnical information of the underlying ground conditions for the following:

The proposed replacement long-term water supply for the Lough Talt Water Resource Zone (WRZ) entails upgrade works at a number of water treatment assets in County Mayo and the construction of new pipeline (circa 31km in length), commencing at Lisglennon Water Treatment Plant in County Mayo and terminating in close proximity to Lough Talt WTP, County Sligo.

The fieldwork commenced on January 1st 2025 and was completed on November 5th 2025.

2.0 Site & Geology

The site is located between Lisglennon Water Treatment Plant (situated approximately 2.5km south of Killala, County Mayo) and Lough Talt Water Treatment Plant, County Sligo.

The fieldwork was carried out predominantly on agricultural lands, private lands and national primary and/or secondary roads. Weather conditions in general were quite variable with the majority of the fieldwork carried out over a typical winter to autumn period in Ireland.

Site Plans, prepared by the client's representatives and amended by IDL to show 'As-Built' fieldwork locations, are included with this report.

The following were the main published information sources used:
Geological Map of Ireland: 1:750,000 scale map series.

Site investigation data is available as point source data along the proposed route, and the majority of the ground in between the points can only be assumed to follow the characteristics of the nearest available data.

<u>Overview of Subsoil Geology</u>

Glacial Till:

Glacial Till is what was often referred to as Boulder Clay. It is a diverse material that is largely deposited sub-glacially and has a wide range of characteristics due to the variety of parent materials and different processes of deposition. Tills are often tightly packed, unsorted, heterogeneous, unbedded, and can have a wide range of particle sizes and types, which are often but not exclusively angular or sub-angular.

The type of parent material plays a critical role in providing the particles that create different subsoil permeability with sandstones giving rise to a high proportion of sand sized grains in the till matrix, clean limestones providing a relatively high proportion of silt, while shales, shaly limestones and mudstones break down to the finer clay sized particles.

Glacial Outwash Deposits:

Deposition of sand and gravel takes place mainly when glaciers are melting, which gives rise to large volumes of meltwater with great erosive and transporting power. The subsoils deposited in this environment are predominantly, but not exclusively, rounded to subrounded gravel and sand, with the finer fractions of clay and silt washed out.

Peat:

The deposition of peat occurred in post-glacial periods and is generally associated with the start of warmer and wetter climatic conditions. Peat is an unconsolidated usually dark brown to black organic material comprising a mixture of decomposed and undecomposed plant matter that accumulated in an acidic waterlogged environment. Peat has an extremely high-water content generally averaging over 90% by volume.

Solid Geology
The Geological Map of Ireland: 1:500,000 scale map series indicate that the site is predominantly underlain by the limestone and shale of the Ballina Limestone Formation (Upper and Lower).

3.0 Fieldwork.

3.0.1 Fieldwork Plant:
The following plant was mobilised to site by IDL to carry out fieldwork operations:
1nr. Zaxis LCV 13T Tracked Excavator.
1nr JCB Excavator.
1nr. Dando 2000 Cable Percussive Boring Rig.
1nr. DeltaBase 520 Rotary Core Drilling Rig.
1nr. GEO 602 Rotary Core Drilling Rig.
1nr. LMSR-V(k) Geotool Dynamic Probing Rig.
3nr. Yanmarr All-Terrain Support Vehicle.
1nr. HQ Rotary Core Drill String.
1nr. DCP Test Equipment.
1nr. Honda Water Supply Pump.
1nr. Drilling Water Recirculation Tank System.

Fieldwork carried out to date has included the following:

3.0.2 Fieldwork Operations:
A general summary of fieldwork operations carried out to date includes the following:

- Completion of 45nr Cable Percussive Boreholes.
- Completion of 61nr Rotary Core Boreholes.
- Completion of 8nr dynamic (window) sampling locations.
- Completion of 145nr Dynamic Probes.
- Excavation of 119nr Trial Pits.
- Excavation of 168nr Slit Trenches.
- Completion of 10nr Soil Infiltration Tests.
- Completion of DCP and Hand Shear Vane Tests.
- Completion of Standard Penetration Tests in overburden at borehole locations.
- Installation of 5nr 50mm diameter standpipes at borehole locations.
- Completion of Geophysical Survey.
- Completion of Asbestos Refurbishment Survey.
- Completion of Archaeological Monitoring Survey.
- Completion of GPR Utility Survey.
- Completion of Topographical Survey.

Fieldwork carried out to date has included the following:

3.1 Cable Percussive Boreholes:

Fifty-five cable percussion (Shell & Auger) boreholes were completed using Dando 2000 Cable Percussive Boring Rigs. The boreholes were bored to ‘refusal’ or to depths as instructed by the client’s representatives.

The borehole depths ranged from 0.60m to 7.90m below ground level.

In–Situ testing consisting of Standard Penetration Tests were carried out at regular intervals (predominantly 1.0m intervals) or as instructed by the client’s representatives.

Disturbed bulk and jar soil samples were taken at each change in strata and were returned to the laboratory and logged by a Geotechnical Engineer and presented for testing.

Detailed engineering logs for the cable percussive boreholes completed are included with this report in Appendix 1.

3.2 Rotary Core Boreholes:

Sixty-one rotary core boreholes were carried out to establish overburden conditions and rockhead and to establish the nature and integrity of the underlying rock.

The rotary core boreholes were predominantly carried out as 'stand-alone' and/or 'extension follow-on' boreholes at locations where the cable percussive boreholes encountered 'refusals' at relatively shallow depths.

The boreholes were completed using wireline drilling techniques, and HQ size (64mm core diameter, 96mm hole diameter) drill strings to recover soil and rock core samples.

A water based flush system was used as the drilling medium while a biodegradable polymer gel was also used where necessary to aid the drilling and soil / rock recovery process.

The samples were stored in wooden boxes and returned to the laboratory where there were logged and photographed by a Geotechnical Engineer and presented for testing.

In-Situ testing consisting of Standard Penetration Tests were carried out in the overburden in a number of the boreholes.

The rotary core boreholes were carried out to depths ranging from 5.70m to 20.00m below ground level.

A 50mm diameter standpipe was installed in the following boreholes and as instructed by the Client's Engineer, to allow for monitoring of groundwater levels over a prolonged period of time:
BH LG05
BH LR01
BH R01
BH T02
BH WH01

A summary of water levels recorded during the fieldwork period is included with this report as Appendix 8.

Detailed engineering logs for the rotary core boreholes completed are included with this report in Appendix 2.

3.3 Trial Pits:

One hundred and nineteen trial pits were excavated on site using a 13T tracked excavator.

The pits were logged and photographed by an Engineer with observations made on ground conditions, pit stability, water ingress and services encountered. The pits were excavated to depths ranging from 0.60m to 4.50m below ground level.

Small and bulk disturbed soil samples were recovered at each change in strata and returned to the laboratory and presented for testing.

In-Situ testing consisting of hand shear vane tests were also carried out where possible in cohesive soils. The tests were carried out using a Edeco Pilcon DR5118 Hand Shear Vane Unit with either a 19mm vane or 33mm vane. Records of the 'corrected value' shear vane test results are included on the engineering logs included as appendix 3 of this factual report.

In-Situ tests consisting of Dynamic Cone Penetrometer tests (DCP) were also carried out at many trial pt locations and a summary of the DCP results are included with this report as Appendix 7.

The DCP test (to TRL Standards) involves the dropping of an 8kg hammer a distance of 575mm which in turn drive a solid 60degree cone (attached to steel rods) into the ground.
The instrument is held vertically and the number of blows required to penetrate a distance of 10mm is recorded. Readings are recorded until 'refusal' is encountered.

A soil infiltration test was carried out at the following ten trial pit locations:

TP LG01	TP LG09	TP LR05	TP T02
TP LG05	TP LR02	TP LR06	
TP LG07	TP LR04	TP R01	

The soil infiltration tests were carried out in accordance with BRE 365 and the records of same are included as Appendix 8A.

Detailed engineering logs for the trial pits completed are included with this report in Appendix 3.

3.4 Dynamic Probes:

One hundred and forty-five dynamic probes (Dynamic Probe Heavy, DPH) were carried out to 'refusal' using a LMSR-V(k) Geotool Dynamic Probing Rig.

The dynamic probes were carried out to depths ranging from 0.20m to 8.80m below ground level.

The Dynamic Probing Rig involves the dropping of a 50 kg hammer onto rods from a standard height (500mm) and recording the number of blows it takes to penetrate the rods (with a cone tip) to depth of 100mm increments into the soil.

The dynamic probe engineering logs then graph the number of blow counts required to penetrate each 100mm incremental depth. The probe is considered to have encountered 'refusal' when a blow count of 25 does not achieve the full 100mm incremental depth.

Detailed engineering logs for the probes completed are included with this report in Appendix 5.

3.5 Slit Trenches:

One hundred and sixty-eight slit trenches were carried out to ascertain and record existing underground services. The trenches were excavated using a JCB Excavator.

Bulk and/or environmental soil samples were recovered from the slit trenches and presented to the laboratory for testing.

Ground conditions, trench stability and water ingress encountered during the excavation of the slit trenches were also recorded by Geotechnical Engineers and the records of same are included in Appendix 4 of this factual report.

3.6 Dynamic Sampling:

Eight dynamic sampling probe holes were carried out to 'refusal' using a LMSR-V(k) Geotool Dynamic Probing Rig.

Windowless samples are retrieved by pushing the rods to depth using rig hydraulics with the sample recovered in a seamless plastic liner contained within the rods. The plastic liner is then extracted from the rods once target sample depth is reached.

The windowless sampling was carried out to depths ranging from 0.50m to 2.90m below ground level.

Detailed engineering logs for the dynamic sampling completed are included with this report in Appendix 6.

3.7 Geophysical Survey:

A Geophysical Survey was carried out by Minerex Geophysics Limited along the proposed route at three locations, namely:
Lisglennon WTP
Wherrew Intake Pump Station
Lough Talt WTP

The geophysical survey consisted of 2D-Resistivity and Seismic Refraction (p-wave) and the main objectives of the survey were to determine ground conditions, estimate the depth to rock, overburden thickness and reduce the risk of encountering unknown subsurface conditions (including soft ground, shallow bedrock or bedrock karstification) during construction.

The geophysical models and interpretations give guidance about the geological ground and in conjunction with the boreholes a detailed picture of the subsurface conditions.

The records of the geophysical survey and interpretations are included as a 'stand-alone' report in appendix 10.

3.8 GPR Utility Survey:

A Ground Penetration Radar (GPR) Utility Survey was carried out by Scantech Geoscience Ltd along the proposed pipeline route.

The purpose of this survey was to identify the presence of any underground services on site (using non-intrusive fieldwork methods) and the records of this survey have been included as 'stand-alone' reports in Appendix 12 of this factual report.

3.9 Archaeological Monitoring:

Archaeological monitoring of trial pit and slit trench excavations was carried out by Through Time Limited and the records / observations of their monitoring are presented as a 'stand-alone' report and included here with this report as Appendix 9.

3.10 Management Asbestos Survey:

A Management Asbestos survey was carried out by OHSS Limited. The survey was carried out in accordance with HSG264 Requirements and was completed at the following locations:
Wherrew Intake Pump Station
6nr Valve Houses
Lough Talt WTP
Lisglennon WTP
Lisglennon Raw Water PS
Lisglennon Dewatering Building
Lisglennon Treated Water Contact Tank
Lisglennon Picket Fence Thickener

The purpose of the survey was to identify asbestos containing materials in the premises prior to proposed refurbishments of these premises and the records of same are presented as a 'stand-alone' report and included here with this report as Appendix 11.

3.11 Topographical Surveys:

A topographical survey of sections of the proposed route was carried out by Tir3D Limited.

The survey records of same were recorded in autocad and/or pdf formats and are presented here with this report as Appendix 13.

3.12 General Summary:

The borehole, probe, dynamic sampling, slit trench and trial pit locations were set out on site using a Trimble CU Bluetooth GPS Surveying Unit and the co-ordinates are included on the logs presented in the appendices.

All fieldwork co-ordinates are reported to Irish Transverse Mercator (ITM) with Reduced Levels recorded relative to Malin Head Datum and with an accuracy level of + or – 0.10m.

Ground conditions encountered during the completion of the fieldwork were typical and as expected for this region and predominantly consisted of Topsoil and /or Made Ground (Roadfill) overlying Glacial Tills overlying Bedrock.

Very soft and soft brown peat and/or peaty silt was encountered in many of the borehole and trial pit locations to depths ranging from 0.50m to 3.60m below ground level. Very soft cream white calcareous silt ('Marl') was also encountered at a number of fieldwork locations.

The Glacial Tills in general consisted of slightly sandy slightly gravelly silt/clay with cobbles and boulders and/or silty sands and/or gravels with cobbles and boulders.

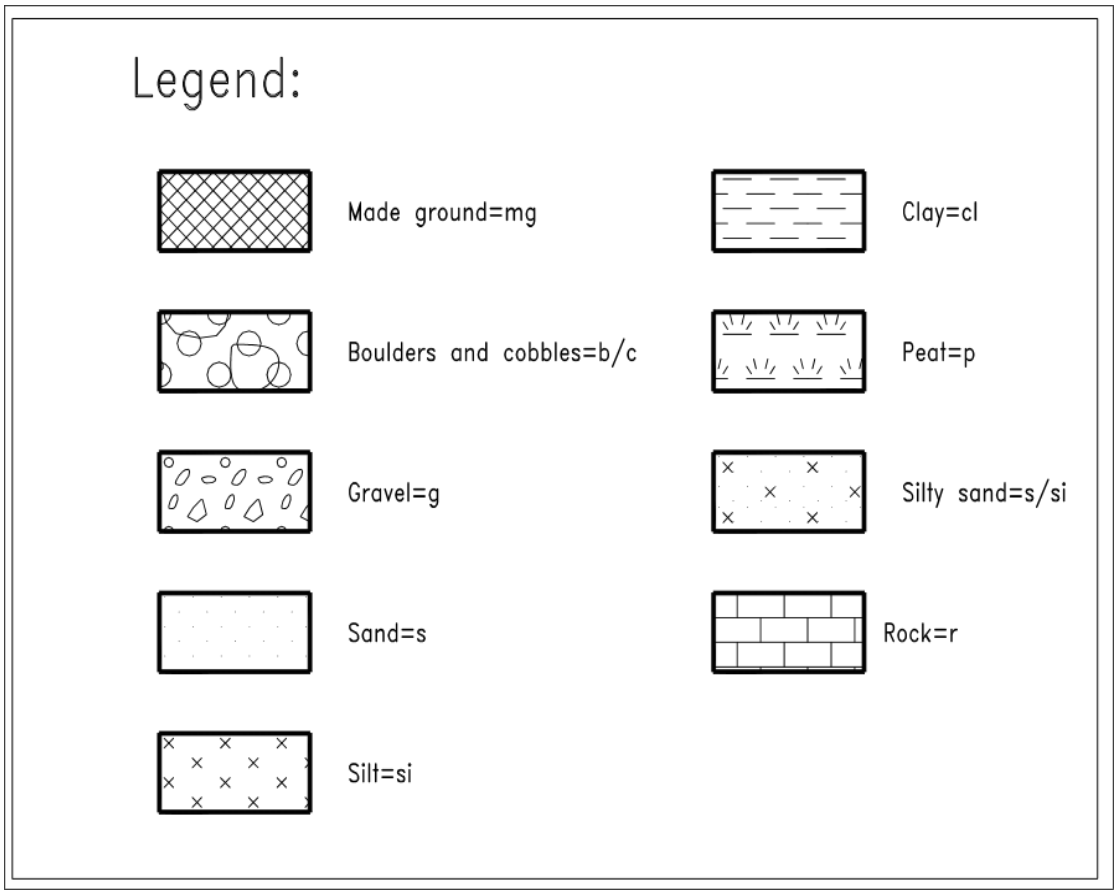
Made ground was also encountered in many of the borehole and trial pit locations and at depths ranging from 0.10m to 2.20m below ground level. Made ground in general consisted of road fill (including Clause 804 type material) and/or silty sandy gravel with cobbles along with traces of construction rubble (brick, timber, plastic).

Intact bedrock was encountered in the rotary core boreholes at depths varying from 1.00m to 10.80m below ground level. Weathered bedrock was also encountered in many of the boreholes at shallower depths.

Bedrock is predominantly described as very strong and strong, grey, thinly bedded, fine and medium grained Limestone. It is further noted that bedrock was not encountered in a number of the boreholes before borehole termination.

For detailed descriptions of bedrock and ground conditions encountered please refer to the engineering logs included in the appendices of this report.

The following Key Legend Table details the symbology used on the engineering logs to describe ground conditions encountered:



The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930:2015+A1:2020 Code of Practice for Site Investigations with precedence given to IS EN 1997-2 where applicable.

4.0 Laboratory Testing

Representative samples recovered from the boreholes, windowless samples, slit trenches and trial pits were scheduled for testing in the laboratory.

The test schedules were prepared by the Client's Engineer and included the following tests on bulk disturbed soil samples:

Test Type:	Number
Moisture Content	399
Atterberg Limit	233
Particle Size Distribution	328
Sedimentation	194
Particle Density	01
Organic Content	54
Sulphate Total	102
Chemical (pH)	102
Chemical (Chloride Content)	102
Compaction (MCV 1-Point)	34
Compaction (MCV Relationship)	08
Environmental (Suite App B)	64
Von Post Classification	02

The test schedules also included the following tests on rock core samples:

Test Type:	Number
UCS	44
Point Load	118
LA Abrasion	06
Slake Durability	09

The test schedules were carried out predominantly at the IDL Laboratory located at Loughrea, County Galway.

A number of specialist tests not available at the IDL laboratory were carried out by designated laboratories on a subcontract basis as follows:

Environmental Tests and Chemical Tests (pH, Sulphate, Chloride Content) were carried out by Envirolab Ltd., Hattersley, UK.

Envirolab Ltd., Hattersley, UK is accredited to ISO/IEC 17025:2017 (UKAS).

Specialist rock test schedules were carried out predominantly at the Structural Soils Laboratory located at Bristol, UK.

Structural Soils Ltd., UK is accredited to ISO/IEC 17025:2017 (UKAS).

Soil samples in general were recovered from the excavation of slit trenches / trial pits and completion of dynamic sampling / cable percussive boreholes. Soil and/or rock core samples were recovered from the completion of rotary core boreholes and the records of all laboratory test results are included with this report as Appendix 14.

The soil and rock descriptions as noted on the borehole, dynamic sampling, slit trench and trial pit logs are in general visual descriptions as observed and logged by our Engineers and are described in accordance with IS EN 1997-2 and BS5930:2015+A1:2020 Code of Practice for Site Investigations.

Soils descriptions (cohesive or otherwise) are also initially assessed based on the texture and 'feel' of the soil materials as witnessed by our Geotechnical Engineers and in accordance with IS EN 1997-2 and BS5930:2015+A1:2020.

Where laboratory classification tests have been carried out on soil and/or rock samples then these visual descriptions have been amended accordingly to take into account the results of these classification tests.

The records of all fieldwork, laboratory test results and photographs are included in the appendices of this Factual Report.

Ronan Killeen
Chartered Engineer
Irish Drilling Limited
March 31st 2026

Appendix 1
Borehole Records
(Cable Percussive)

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	8.16	E 525,893.4 N 820,951.2

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			7.96		0.20	TOPSOIL.	
				7.56		(0.40) 0.60	CONCRETE.	
1.00	D2						Brown slightly gravelly slightly sandy SILT. Sand is medium.	
1.20	SPT	N = 27 (3, 4, 4, 9, 6, 8)				(1.30)	1.20m: becoming stiff. 1.20: stiff.	
1.20-1.60	B4							
				6.26		1.90		
1.90	SPT	50 for 0 mm (25, 50)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
04-07-25	16.00	1.90	1.90	203	

Chiselling

From	To	Hours
0.2	0.6	1:00
1.9		1:00

Water Added

From	To

GENERAL REMARKS

Hand dig inspection pit. BH terminated at 1.90m bgl. Obstruction as possible rock. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	6.36	E 525,842.0 N 821,026.3

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			5.96		(0.40) 0.40	TOPSOIL.	
1.00	D2			5.16		(0.80) 1.20	Dry brown slightly sandy slightly gravelly SILT with cobbles.	
1.20	SPT	N = 17 (3, 4, 3, 5, 4, 5)		4.56		(0.60) 1.80	Medium dense brown very sandy very silty GRAVEL. Gravel is fine. 1.20: stiff.	
1.20-1.60	B4							
1.80	SPT	50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
03-07-25	16.00	1.80	1.80	203	

Chiselling

From	To	Hours
1.8		1:00

Water Added

From	To

GENERAL REMARKS

Hand dig inspection pit. BH terminated at 1.80m bgl. Obstruction as possible rock. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-01-25 07-01-25	63.79	E 519,884.9 N 827,309.2

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			63.39		(0.40) 0.40	MADE GROUND: Tar and fill.	
1.00	SPT	N = 27 (4, 5, 6, 6, 6, 9)				(1.10)	Firm brown slightly gravelly slightly sandy SILT with cobbles and boulders. Cobbles are of limestone. Boulders are of limestone. 1.00: stiff.	
1.00	D2			62.29		1.50		
1.00-1.50	B4							
1.50	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
07-01-25	13.00	1.50	1.50	203		1.5		1:00			Cut tar. BH terminated at 1.50m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-01-25 30-01-25	62.53	E 519,915.2 N 827,284.5

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			62.33		0.20	TOPSOIL.	
						(1.30)	Firm brown slightly gravelly slightly sandy SILT with cobbles. Cobbles are of limestone.	
1.00	D2							
1.20	SPT	N = 26 (5, 7, 4, 11, 5, 6)		61.03		1.50		
1.20-1.70	B4					(0.70)	Stiff grey brown slightly sandy gravelly SILT with cobbles. Cobbles are of limestone.	
2.00	SPT	25 for 75 mm (12, 13, 25)		60.33		2.20		
2.00	D5							
2.20		25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
29-01-25	17.00	2.20	2.20	203	
30-01-25	08.00	2.20			
30-01-25	10.00	2.20			

Chiselling

From	To	Hours
2.2		1:00

Water Added

From	To

GENERAL REMARKS

Hand dig inspection pit to 1.20m bgl. BH terminated at 2.20m bgl. Obstruction as possible rock. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-01-25 02-01-25	63.45	E 519,844.6 N 827,275.1

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1					(1.90)	POSSIBLE MADE GROUND: Soft brownish grey slightly gravelly slightly sandy SILT with occasional cobbles. Cobbles are of limestone.	
1.00	SPT	N = 6 (1, 1, 2, 1, 2, 1)						
1.00	D2							
1.00-1.50	B4							
				61.55		1.90		
1.90	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
02-01-25	12.00	1.90	1.90	203		1.9		1:00			Hand dig inspection pit to 1.20m bgl. BH terminated at 1.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-01-25 03-01-25	62.97	E 519,805.6 N 827,208.0

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 2.50m 2.50m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			62.77		0.20	TOPSOIL.	
						(1.40)	Firm brown slightyl gravelly slightly sandy SILT with occasional cobbles. Cobbles are angular of limestone.	
1.00	D2							
1.20	SPT	N = 22 (4, 7, 3, 3, 11, 5)						
1.20-1.80	B4			61.37		1.60		
						(1.00)	Stiff grey slightly gravelly slightly sandy SILT with cobbles. Cobbles are angular of limestone.	
2.00	SPT	N = 17 (3, 4, 3, 3, 4, 7)						
2.00	D5		11					
2.00-2.50	B7			60.37		2.60		
2.50	SPT	50 for 150 mm (19, 6, 25, 25)						
2.60	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
02-01-25	16.00	2.60	2.60	203	2.50
03-01-25	09.00	2.60			2.50
03-01-25	12.00	2.60			

Chiselling

From	To	Hours
2.6		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 2.60m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	06-01-25 06-01-25	63.07	E 519,832.2 N 827,212.4

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: 1st: 2.50m; Rose to (@ 20 min.): 2.50m; Sealed at: 2.50m; 2nd: ; 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			62.87		0.20	TOPSOIL.	
						(1.00)	Firm brown CLAY with rare cobbles.	
1.00	SPT	N = 16 (3, 4, 5, 4, 4, 3)		61.87		1.20		
1.00	D2						Medium dense dark grey brown sandy very silty coarse GRAVEL with cobbles. Cobbles are angular of limestone.	
						(1.50)		
2.00	SPT	N = 18 (3, 5, 1, 6, 5, 6)						
2.00	D5		1.1					
2.00-2.50	B7			60.37		2.70		
2.70	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
06-01-25	15.00	2.70	2.70	203	

Chiselling

From	To	Hours
1.9	2.2	0:30
2.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 2.70m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-01-25 31-01-25	44.02	E 520,454.7 N 826,864.0

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			43.82		0.20	TOPSOIL.	
						(1.30)	Firm brownish grey slightly gravelly slightly sandy SILT with frequent cobbles. Cobbles are angular of limestone.	
1.00	SPT	N = 20 (5, 6, 6, 6, 7, 1)						
1.00	D2			42.52		1.50		
1.00-1.50	B4							
1.50	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
30-01-25	17.00	1.50	1.50	203	
31-01-25	08.00	1.50			
31-01-25	10.00	1.50			

Chiselling

From	To	Hours
1.5		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 1.50m bgl. Obstruction as probable rock. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-01-25 30-01-25	45.42	E 520,298.0 N 826,828.8

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-0.60	B1			45.22		0.20	TOPSOIL.	
				44.82		(0.40) 0.60	Limestone COBBLES.	
0.60	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
30-01-25	13.00	0.60	0.60	203	

Chiselling

From	To	Hours
0.6		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 0.60m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	38.56	E 521,985.3 N 826,508.4

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1						MADE GROUND: Tar Clause 804 type material and 3" and down.	
				37.86		(0.70) 0.70		
							Firm brown slightly sandy gravelly SILT	
1.00	SPT	N = 13 (2, 2, 3, 3, 4, 3)						
1.00	D2					(1.20)		
1.00-1.50	B4							
				36.66		1.90		
							Stiff dark grey slightly sandy gravelly SILT.	
2.00	SPT	N = 19 (3, 4, 4, 6, 5, 4)				(0.60)		
2.00	D5							
2.00-2.50	B7							
2.50	SPT	50 for 150 mm (18, 7, 25, 25)		36.06		2.50		

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
21-07-25	03.00	2.50	2.50	203		0.2 2.5	0.7	1:00 1:00		

GENERAL REMARKS

BH terminated at 2.50m bgl.
Obstruction as possible rock.
BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	18-07-25 18-07-25	33.73	E 522,077.0 N 826,215.4

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-0.80	B1					(1.70)	MADE GROUND: Tar and fill. Recovered as dark grey very silty very sandy medium GRAVEL.	
1.00	SPT	50 for 225 mm (13, 12, 13, 22, 15)						
1.00	D2							
1.00-1.50	B4							
				32.03		1.70		
1.70	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
18-07-25	12.00	1.70	1.70	203	

Chiselling

From	To	Hours
0.2	1	1:00
1.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 1.70m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-05-25 08-05-25	28.59	E 522,224.9 N 825,423.5

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			28.39		0.20	TOPSOIL.	
						(1.10)	Firm brown clayey PEAT.	
1.00	SPT	N = 9 (1, 1, 1, 2, 2, 4)		27.29		1.30		
1.00	D2						Firm grey slightly sandy slightly gravelly SILT.	
1.00-1.50	B4					(1.20)		
2.00	SPT	N = 11 (2, 3, 2, 3, 3, 3)						
2.00	D5			26.09		2.50		
2.00-2.50	B7						Firm grey slightly gravelly sandy SILT with occasional cobbles. Cobbles are angular of limestone.	
3.00	SPT	N = 24 (5, 11, 6, 5, 7, 6)					3.00: becoming stiff.	
3.00	D8							
3.00-3.50	B10					(2.20)		
4.00	SPT	50 for 25 mm (13, 12, 25, 25)						
4.00	D11							
4.00-4.50	B13			23.89		4.70		
4.70	SPT	50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
08-05-25	16.00	4.70	4.70	203	

Chiselling

From	To	Hours
4.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 4.70m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-05-25 07-05-25	29.11	E 522,230.1 N 825,449.9

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			28.91		0.20	TOPSOIL.	
				28.51		(0.40) 0.60	Firm brown peaty CLAY.	
1.00	SPT	N = 24 (3, 4, 5, 9, 5, 5)				(1.00)	Stiff grey slightly gravelly sandy SILT with occasional cobbles. Cobbles are angular of limestone.	
1.00	D2							
1.00-1.50	B4							
1.60	SPT	25 for 75 mm (25, 25, 25)		27.51		1.60		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
07-05-25	13.00	1.60	1.60	203		1.6		1:00			BH terminated at 1.60m bgl. Obstruction as probable rock. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-05-25 12-05-25	29.56	E 522,218.7 N 825,263.4

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.50m 2.00m 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			29.36		0.20	TOPSOIL.	
				28.86		(0.50) 0.70	Firm dry brown slightly sandy gravelly SILT.	
1.00	SPT	N = 11 (2, 3, 2, 2, 4, 3)		28.36		(0.50) 1.20	Firm brown peaty CLAY.	
1.00 1.00-1.50	D2 B4						Firm grey brown slightly gravelly slightly sandy SILT.	
2.00	SPT	N = 12 (1, 3, 2, 2, 3, 5)	1			(1.70)		
2.00 2.00-2.50	D5 B7			26.66		2.90		
3.00	SPT	N = 22 (3, 4, 3, 6, 6, 7)					Stiff grey gravelly sandy SILT with cobbles. Cobbles are angular of limestone.	
3.00 3.00-3.50	D8 B10		1	25.86		(0.80) 3.70		
3.70	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
12-05-25	13.00	3.70	3.70	203		3.7		1:00			BH terminated at 3.70m bgl. Obstruction as possible rock. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-05-25 09-05-25	29.82	E 522,219.0 N 825,277.1

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 4.00m 2.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			29.52		0.30	TOPSOIL.	
				28.92		(0.60) 0.90	Firm brown CLAY.	
1.00	SPT	N = 13 (2, 3, 3, 3, 4, 3)					Firm grey slightly gravelly sandy SILT.	
1.00	D2					(0.90)		
1.00-1.50	B4			28.02		1.80		
			1				Medium dense moist brown very silty very sandy GRAVEL.	
2.00	SPT	N = 17 (3, 5, 4, 3, 6, 4)						
2.00	D5							
2.00-2.50	B10					(1.80)		
3.00	SPT	N = 21 (5, 4, 6, 5, 5, 5)						
3.00	D11							
3.00-3.50	B13			26.22		3.60		
			1			(0.50)	Stiff dark grey slightly sandy slightly gravelly SILT with cobbles. Cobbles are angular of limestone.	
4.00	SPT	25 for 75 mm (25, 25, 25)		25.72		4.10		
4.00	D14							

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
09-05-25	14.00	4.10	4.10	203	1.50

Chiselling

From	To	Hours
4.1		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 4.10m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-07-25 17-07-25	38.25	E 522,678.9 N 823,930.4

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 4.30m 3.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1						MADE GROUND: Tar and Clause 804 type material.	
				37.25		(1.00) 1.00		
1.00	SPT	N = 6 (1, 1, 2, 2, 1, 1)					Soft brown slightly sandy slightly gravelly SILT.	
1.00	D2							
1.00-1.50	B4					(1.10)		
				36.15		2.10		
2.00	SPT	N = 10 (2, 2, 2, 3, 2, 3)					Medium dense brownish grey very sandu very silty GRAVEL.	
2.00	D5							
2.00-2.50	B7		1					
3.00	SPT	N = 13 (10, 11, 5, 4, 2, 2)				(1.80)		
3.00	D8							
3.00-3.50	B10							
				34.35		3.90		
4.00	SPT	42 for 150 mm (15, 10, 17, 25)	1				Very dense grey angular limestone COBBLES.	
				33.95		(0.40) 4.30		
4.00	~~D11~~ SPT							
4.30		50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
17-07-25	17.30	4.30	4.30	203	3.50	0.3 4 4.3	1 4.2	1:00 0:30 1:00			BH terminated at 4.30m bgl. Obstruction as possible rock. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-07-25 16-07-25	37.74	E 522,798.6 N 823,671.1

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 4.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1						MADE GROUND: Tar and fill.	
0.50-1.00	ES			36.84		(0.90) 0.90		
1.00	SPT	N = 15 (3, 5, 4, 4, 3, 4)					Medium dense brown very silty very gravelly SAND.	
1.00	D2							
1.00-1.50	B4			35.74		(1.10) 2.00		
2.00	SPT	N = 5 (1, 1, 1, 1, 2, 1)					Soft brown peaty SILT.	
2.00	D5							
2.00-2.50	B7			34.84		(0.90) 2.90		
3.00	SPT	N = 15 (3, 4, 4, 3, 4, 4)					Medium dense brownish grey very silty medium SAND and GRAVEL with cobbles.	
3.00	D8							
3.00-3.50	B10							
			▼			(1.70)		
4.00	SPT	N = 30 (6, 4, 11, 5, 5, 9)						
4.00	D11							
4.00-4.50	B13			33.14		4.60		
4.60	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
16-07-25	17.30	4.60	4.60	203	

Chiselling

From	To	Hours
0.3	1	1:00
4.6		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 4.60m bgl. Refusal. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-07-25 11-07-25	37.46	E 522,811.9 N 823,649.5

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 4.00m 2.50m 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1					(1.10)	MADE GROUND: Tar and fill.	
1.00	SPT	N = 10 (3, 3, 2, 3, 3, 2)		36.36		1.10		
1.00	D2						Medium dense brownish grey sandy silty GRAVEL.	
1.00-1.50	B4					(0.80)		
				35.56		1.90		
2.00	SPT	N = 4 (1, 1, 1, 1, 1, 1)					Loose brown very silty very sandy GRAVEL.	
2.00	D5		1			(0.80)		
2.00-2.50	B7			34.76		2.70		
							Stiff grey slightly sandy slightly gravelly SILT.	
3.00	SPT	N = 20 (3, 4, 3, 6, 4, 7)				(1.20)		
3.00	D8							
3.00-3.50	B10			33.56		3.90		
			1				Medium dense wet very silty very sandy GRAVEL with cobbles. Cobbles are red angular.	
4.00	SPT	N = 22 (4, 7, 5, 7, 4, 6)						
4.00	D11					(1.80)		
4.00-4.50	B13							
5.00	SPT	N = 39 (16, 18, 10, 10, 8, 11)					5.00m: becoming dense.	
5.00	D14							
5.00-5.50	B16			31.76		5.70		
5.70	SPT	50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
11-07-25	16.00	5.70	5.70	203	

Chiselling

From	To	Hours
0.3	1	1:00
5.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 5.70m bgl.
Obstruction as possible rock.
BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M07**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	35.45	E 523,390.3 N 822,900.1

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			34.55		(0.90) 0.90	MADE GROUND: Tar and fill. Recovered as grey silty sandy medium GRAVEL.	
1.00	SPT	N = 8 (3, 3, 2, 2, 2, 2)		34.05		(0.50) 1.40	Loose brown silty very sandy medium GRAVEL.	
1.00	D2							
1.00-1.50	B4			33.65		(0.40) 1.80	Soft brown peaty SILT.	
2.00	SPT	N = 12 (2, 3, 3, 2, 3, 4)		32.75		(0.90) 2.70	Medium dense brownish grey very sandy very silty GRAVEL.	
2.00	D5							
2.00-2.50	B7							
3.00	SPT	43 for 150 mm (12, 12, 18, 25)		32.15		(0.60) 3.30	Firm grey slightly sandy gravelly SILT with cobbles. Cobbles are angular of limestone. 3.00m; becoming very stiff.	
3.00	D8							
3.30	SPT	50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
10-07-25	17.30	3.30	3.30	203	

Chiselling

From	To	Hours
0.2	1	1:00
3.3		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 3.30m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M08**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	32.77	E 523,735.8 N 821,999.9

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 4.70m 3.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1						MADE GROUND: Tar and fill.	
				31.77		(1.00) 1.00		
1.00	SPT	N = 9 (2, 3, 2, 3, 3, 1)					Soft brown silty PEAT.	
1.00	D2			31.37		(0.40) 1.40		
1.00-1.50	B4						Very soft brown slightly sandy slightly gravelly silty PEAT.	
2.00	SPT	N = 0 (1, 0, 0, 0, 0, 0)				(1.20)		
2.00	D5							
2.00-2.50	B7			30.17		2.60		
			1				Stiff grey slightly gravelly sandy SILT with cobbles. Cobbles are angular of limestone.	
3.00	SPT	N = 16 (2, 4, 3, 3, 3, 7)				(1.40)		
3.00	D8							
3.00-3.50	B10			28.77		4.00		
4.00	SPT	N = 24 (5, 4, 3, 9, 5, 7)					Medium dense dark grey very sandy Svery silty GRAVEL with cobbles. Cobbles are angular of limestone.	
4.00	D11							
4.00-4.50	B13		1			(1.00)		
				27.77		5.00		
5.00	SPT	50 for 225 mm (19, 6, 20, 25, 5)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
09-07-25	17.30	5.00	5.00	203	3.00	0.3 5	1	1:00 1:00			BH terminated at 5.00m bgl. Obstruction as possible rock. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M09**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-07-25 07-07-25	31.37	E 523,803.9 N 821,566.6

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 5.00m 4.70m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1						MADE GROUND: Recovered as brown slightly gravelly sandy SILT.	
1.00	SPT	N = 22 (3, 4, 5, 4, 6, 7)				(1.80)		
1.00	D2							
1.00-1.50	B4			29.57		1.80		
							Very soft black slightly sandy slightly gravelly PEAT.	
2.00	SPT	N = 6 (2, 1, 2, 1, 1, 2)						
2.00	D5							
2.00-2.50	B7					(1.60)		
3.00	SPT	N = 7 (1, 1, 1, 1, 2, 3)						
3.00	D8			27.97		3.40		
3.00-3.50	B10						Firm grey slightly sandy slightly gravelly SILT with occasional cobbles. Cobbles angular of limestone.	
4.00	SPT	N = 16 (3, 4, 3, 4, 4, 5)					4.00m; becoming stiff.	
4.00	D11							
4.00-4.50	B13		1			(2.00)		
5.00	SPT	50 for 225 mm (18, 7, 19, 17, 14)	1					
5.00	D14			25.97		5.40		

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
07-07-25	17.30	5.40	5.40	203	4.00	0.5 5.4	1	1:00 1:00		

GENERAL REMARKS

BH terminated at 5.40m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M10**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-07-25 08-07-25	31.36	E 523,842.2 N 821,321.1

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 5.00m 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			31.16		0.20	TOPSOIL.	
						(1.40)	MADE GROUND: Recovered as dark brown very sandy very silty GRAVEL.	
1.00	SPT	N = 17 (3, 5, 4, 5, 4, 4)						
1.00	D2							
1.00-1.50	B4			29.76		1.60		
						(1.20)	Soft black slightly sandy slightly gravelly peaty SILT.	
2.00	SPT	N = 8 (1, 2, 2, 2, 1, 3)						
2.00	D5							
2.00-2.50	B7			28.56		2.80		
						(1.30)	Stiff grey brown slightly sandy slightly gravelly SILT.	
3.00	SPT	N = 22 (3, 4, 4, 5, 6, 7)						
3.00	D8							
3.00-3.50	B10			27.26		4.10		
						(0.60)	Medium dense moist grey very silty SAND and GRAVEL.	
4.00	SPT	N = 12 (3, 2, 3, 3, 3, 3)						
4.00	D11							
4.00-4.50	B13			26.66		4.70		
			▼1			(0.50)	Grey slightly gravelly sandy SILT with frequent cobbles. Cobbles angular of limestone. 5.00m: very stiff.	
5.00	SPT	50 for 150 mm (19, 6, 25, 25)		26.16		5.20		
5.00	D14							

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
08-07-25	17.30	5.20	5.20	203		0.3 5.2	1	1:00 1:00		

GENERAL REMARKS

BH terminated at 5.20m bgl.
Obstruction as possible rock.
BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M13**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	25.33	E 526,794.0 N 820,595.6

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-0.60	B1			24.93		(0.40) 0.40	MADE GROUND: Tar and fill.	
				24.73		0.60	Grey sandy GRAVEL.	
0.60	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
02-07-25	12.00	0.60	0.60	203		0.6		1:00			BH terminated at 0.60m bgl. Obstruction as possible rock. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M13A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	25.39	E 526,795.6 N 820,595.3

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-0.80	B1			24.99		(0.40) 0.40	MADE GROUND: Tar and fill.	
				24.59		(0.40) 0.80	Grey sandy GRAVEL.	
0.80	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
02-07-25	12.00	0.80	0.80	203		0.8		1:00		

GENERAL REMARKS

BH terminated at 0.80m bgl.
Obstruction as possible rock.
BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M14**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	01-07-25 01-07-25	29.92	E 528,405.2 N 818,909.2

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			29.52		(0.40) 0.40	MADE GROUND: Tar and fill.	
1.00	SPT	N = 9 (2, 2, 2, 3, 2, 2)					Firm grey slightly gravelly sandy SILT.	
1.00	D2							
1.00-1.50	B4					(2.50)		
2.00	SPT	N = 13 (1, 2, 3, 4, 3, 3)						
2.00	D5							
2.00-2.50	B7			27.02		2.90		
3.00	SPT	N = 21 (10, 6, 5, 4, 7, 5)					Stiff grey slightly gravelly sandy SILT with occasional cobbles. Cobbles are angular.	
3.00	D8							
3.00-3.50	B10					(1.20)		
4.00	D11			25.82		4.10		
4.10	SPT	50 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
01-07-25	16.00	4.10	4.10	203	

Chiselling

From	To	Hours
4.1		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 4.10m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M15**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	27-03-37 28-03-25	24.86	E 528,627.3 N 818,645.6

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.70m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			24.56		0.30	TOPSOIL.	
							Medium dense grey silty SAND and GRAVEL with cobbles. Cobbles are rounded. Sand is medium and coarse.	
1.00	SPT	N = 17 (2, 4, 6, 3, 4, 4)						
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 22 (4, 4, 7, 5, 4, 6)						
2.00	D5							
2.00-2.50	B7					(4.30)		
3.00	SPT	N = 27 (2, 6, 6, 8, 8, 5)						
3.00	D8							
3.00-3.50	B10		▼1					
4.00	SPT	N = 37 (5, 6, 6, 10, 11, 10)					4.00m; becoming dense. 4.00: dense.	
4.00	D11							
4.00-4.50	B13			20.26		4.60		
4.60	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
27-03-25	17.30	4.60	4.60	203	3.60
28-03-25	08.00	4.60			3.60
28-03-25	11.00	4.60			3.60

Chiselling

From	To	Hours
4	4.4	0:30
4.6		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 4.60m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M16**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	31-03-25 31-03-25	24.73	E 528,788.4 N 818,605.9

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.00m 2.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			24.43		0.30	TOPSOIL.	
						(1.30)	Loose grey silty very gravelm medium and coasre SAND with cobbles. Cobbles are rounded.	
1.00	SPT	N = 7 (1, 1, 2, 1, 2, 2)					1.00: loose.	
1.00	D2							
1.00-1.50	B4			23.13		1.60		
			▽1				Medium dense grey silty SAND and GRAVEL.	
2.00	SPT	N = 15 (3, 2, 3, 5, 3, 4)				(1.10)		
2.00	D5							
2.00-2.50	B7			22.03		2.70		
			▼1				Firm wet grey slightly sandy slightly gravelly SILT with occasional cobbles. Cobbles are rounded.	
3.00	SPT	N = 15 (6, 4, 3, 5, 4, 3)				(1.30)		
3.00	D8							
3.00-3.50	B10			20.73		4.00		
4.00	SPT	N = 18 (3, 4, 3, 4, 4, 7)					Medium dense grey silty very sandy medium GRAVEL with occasional cobbles. Cobbles are rounded. Sand is coarse.	
4.00	D11							
4.00-4.50	B13							
5.00	SPT	N = 25 (7, 3, 8, 5, 6, 6)						
5.00	D14							
5.00-5.50	B16					(2.90)		
6.00	D17							
6.50	SPT	N = 49 (6, 10, 6, 13, 7, 23)					6.50m; becoming dense.	
6.50-6.90	B19			17.83		6.90		
6.90	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
31-03-25	16.00	6.90	6.90	203	

Chiselling

From	To	Hours
6.5	6.7	0:30
6.9		1:00

Water Added

From	To

GENERAL REMARKS

Hand dig inspection pit to 1.20m bgl. BH terminated at 6.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M17**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	27-06-25 27-06-25	30.00	E 530,470.1 N 818,460.1

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 5.50m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			29.70		0.30	TOPSOIL.	
							Medium dense brown silty very gravelly coarse SAND.	
1.00	SPT	N = 15 (3, 2, 3, 4, 3, 5)						
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 23 (4, 4, 3, 5, 4, 11)				(3.60)		
2.00	D5							
2.00-2.50	B7							
3.00	SPT	N = 21 (2, 5, 4, 7, 5, 5)						
3.00	D8							
3.00-3.50	B10							
				26.10		3.90		
4.00	SPT	N = 17 (3, 3, 3, 3, 6, 5)					Medium dense moist greyish brown silty very gravelly coarse SAND with cobbles.	
4.00	D11							
4.00-4.50	B13							
5.00	SPT	N = 31 (6, 4, 7, 7, 8, 9)					5.00m; becoming dense.	
5.00	D14		▼1				5.00: becoming dense.	
5.00-5.50	B16					(3.20)		
6.00	D17							
6.50	SPT	N = 37 (7, 8, 8, 8, 10, 11)						
6.50-7.00	B19							
7.00	D20			22.90		7.10		
7.10	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
27-06-25	16.00	7.10	7.10	203	5.00

Chiselling

From	To	Hours
7.1		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 7.10m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M17A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-06-25 30-06-25	30.24	E 530,480.7 N 818,454.0

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 5.50m 3.00m 2nd: 3rd:	Sheet 1 of 2 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			29.94		0.30	TOPSOIL.	
						(0.80)	Medium dense reddish brown silty very gravelly SAND.	
1.00	SPT	N = 11 (2, 2, 3, 2, 2, 4)		29.14		1.10		
1.00	D2						Medium dense brown silty very gravelly fine to coarse SAND.	
1.00-1.50	B4							
2.00	SPT	N = 11 (3, 2, 3, 3, 2, 3)						
2.00	D5					(2.60)		
2.00-2.50	B7		1					
3.00	SPT	N = 15 (5, 3, 2, 3, 6, 4)						
3.00	D8							
3.00-3.50	B10			26.54		3.70		
							Medium dense moist silty gravelly medium SAND with occasional cobbles.	
4.00	SPT	N = 16 (4, 3, 3, 5, 3, 5)						
4.00	D11							
4.00-4.50	B13							
5.00	SPT	N = 26 (3, 5, 6, 5, 4, 11)						
5.00	D14							
5.00-5.50	B16					(4.20)		
6.00	D17							
6.50	SPT	N = 31 (6, 8, 6, 10, 8, 7)					6.50m; becoming dense.	
6.50-7.00	B19						6.50: becoming dense.	
7.00	D20							
				22.34		7.90		

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
30-06-25	16.00	7.90	7.90	203	3.50	7.9		1:00		

GENERAL REMARKS

BH terminated at 7.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M17A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-06-25 30-06-25	30.24	E 530,480.7 N 818,454.0

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 5.50m 3.00m 2nd: 3rd:	Sheet 2 of 2 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	**DESCRIPTION**	
7.90	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	BH terminated at 7.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	01-04-25 01-04-25	78.95	E 533,432.5 N 818,482.5

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.00m 2.00m 4.80m 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1					(0.90)	TOPSOIL: Soft brownish grey slightly sandy slightly gravelly SILT.	
				78.05		0.90		
1.00	SPT	N = 5 (1, 1, 1, 2, 1, 1)					Loose grey gravelly very silty SAND. Sand is coarse.	
1.00	D2							
1.00-1.50	B4							
			1			(2.10)		
2.00	SPT	N = 8 (2, 1, 2, 2, 2, 2)						
2.00	D5							
2.00-2.50	B7							
			1	75.95		3.00		
3.00	SPT	N = 16 (2, 3, 4, 3, 3, 6)					Stiff wet brownish grey slightly gravelly slightly sandy SILT.	
3.00	D8							
3.00-3.50	B10							
						(1.70)		
4.00	SPT	N = 19 (3, 4, 5, 4, 5, 5)						
4.00	D11							
4.00-4.50	B13							
				74.25		4.70		
5.00	SPT	N = 33 (5, 5, 6, 7, 9, 11)					Stiff brown slightly gravelly slightly sandy SILT.	
5.00	D14					(0.90)		
5.00-5.50	B16							
				73.35		5.60		
6.00	D17						Very stiff brown slightly sandy slightly gravelly SILT with boulders.	
						(1.20)		
6.50	SPT	50 for 150 mm (12, 13, 25, 25)						
6.50-6.80	B19			72.15		6.80		
6.80		25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
01-04-25	16.00	6.80	6.80	203		6.8		1:00		

GENERAL REMARKS

Hand dig inspection pit to 1.20m bgl. BH terminated at 6.80m bgl. Obstruction as possible rock. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-06-25 16-06-25	78.99	E 533,409.0 N 818,484.9

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			78.79		0.20	TOPSOIL.	
				78.29		(0.50) 0.70	Brown gravelly very silty peaty SAND.	
1.00	SPT	N = 6 (2, 1, 2, 1, 1, 2)					Firm greyish brown slightly gravelly slightly sandy SILT with occasional cobbles and occasional boulders. Cobbles and boulders are of granite.	
1.00	D2					(1.30)		
1.00-1.50	B4							
				76.99		2.00		
2.00	SPT	25 for 75 mm (25, 25, 25)						
2.00	D5							

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
16-06-25	13.00	2.00	2.00	203	

Chiselling

From	To	Hours
2		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 2.00m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20B**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-06-25 17-06-25	93.58	E 533,669.3 N 818,473.3

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			93.28		0.30	TOPSOIL.	
				92.58		(0.70) 1.00	Firm brown slightly gravelly slightly sandy SILT.	
1.00	SPT	N = 9 (2, 2, 2, 2, 3, 2)					Medium dense dry brown silty very gravelly fine SAND.	
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 20 (3, 4, 3, 6, 5, 6)						
2.00	D5							
2.00-2.50	B7							
3.00	SPT	N = 28 (4, 7, 5, 8, 7, 8)				(4.00)		
3.00	D8							
3.00-3.50	B10							
4.00	SPT	N = 35 (2, 12, 8, 9, 10, 8)					4.00m: becoming desne. 4.00: becoming dense.	
4.00	D11							
4.00-4.50	B13							
				88.58		5.00		
5.00	SPT	N = 48 (8, 11, 11, 13, 10, 14)					Very dense dry brown silty fine and medium SAND with occasional cobbles. Cobbles are angular.	
5.00	D14							
5.00-5.50	B16							
6.00	D17					(2.00)		
6.50	SPT	50 for 150 mm (10, 15, 25, 25)						
6.50-7.00	B19			86.58		7.00		
7.00	SPT	25 for 75 mm (25, 25, 25)						
7.00	D20							

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
16-06-25	17.30	5.00	7.00	203		7		1:00		
17-06-25	08.00	5.00								
17-06-25	14.00	7.00								

GENERAL REMARKS

BH terminated at 7.00m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M22**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-04-25 02-04-25	127.98	E 534,573.6 N 818,327.8

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			127.78		0.20	TOPSOIL.	
0.50-1.00	ES			127.18		(0.60) 0.80	Soft brown slightly sandy slightly gravelly organic SILT.	
1.00	SPT	N = 10 (2, 2, 3, 2, 3, 2)					Medium dense wet brown silty very gravelly SAND with occasional cobbles.	
1.00	D2					(1.10)		
1.00-1.50	B4			126.08		1.90		
2.00	SPT	N = 13 (3, 3, 4, 3, 3, 3)					Medium dense brown silty very gravelly medium SAND.	
2.00	D5							
2.00-2.50	B7					(1.80)		
3.00	SPT	N = 17 (6, 4, 3, 4, 4, 6)						
3.00	D8							
3.00-3.50	B10			124.28		3.70		
4.00	SPT	N = 21 (5, 6, 6, 4, 6, 5)					Medium dense brown silty SAND and GRAVEL. Sand is medium. 4.00: becoming stiff.	
4.00	D11							
4.00-4.50	B13					(1.40)		
5.10	SPT	50 for 150 mm (19, 6, 25, 25)		122.88		5.10	5.00m: becoming very dense.	

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
02-04-25	15.00	5.10	5.10	203	

Chiselling

From	To	Hours
5.1		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 5.10m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M23**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-04-25 03-04-25	124.54	E 534,641.5 N 818,313.0

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			124.34		0.20	TOPSOIL.	
							Light brown silty very gravelly medium SAND with rare cobbles.	
1.00	SPT	N = 13 (3, 5, 3, 2, 5, 3)					1.00m; medium dense. 1.00: meium dense.	
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 22 (7, 4, 9, 4, 5, 4)				(3.70)		
2.00	D5							
2.00-2.50	B7							
3.00	SPT	N = 23 (3, 4, 3, 3, 6, 11)						
3.00	D8							
3.00-3.50	B10							
				120.64		3.90		
4.00	SPT	N = 41 (6, 5, 7, 6, 11, 17)					Dense grey brown very silty very gravelly medium SAND with occasional cobbles.	
4.00	D11					(0.90)		
4.00-4.50	B13							
				119.74		4.80		
4.80	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
03-04-25	13.00	4.80	4.80	203		4 4.8	4.5	0:30 1:00		

GENERAL REMARKS

BH terminated at 4.80m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M24**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-06-25 18-06-25	174.51	E 537,388.0 N 816,571.4

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 2.60m 2.00m 2.00m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			174.21		0.30	TOPSOIL.	
						(1.20)	Very soft black slightly sandy slightly gravelly fibrous PEAT.	
1.00	SPT	N = 0 (1, 0, 0, 0, 0, 0)		173.01		1.50		
1.00	ES							
1.00	D2							
1.00-1.50	B4						Very soft brown slightly sandy slightly gravelly PEAT.	
2.00	SPT	N = 0 (1, 0, 0, 0, 0, 0)	▽1			(1.30)		
2.00	D5							
2.00-2.50	B7		▼1	171.71		2.80		
3.00	SPT	N = 12 (2, 3, 4, 3, 3, 2)					Medium dense brown silty very sandy GRAVEL.	
3.00	D8							
3.00-3.50	B10					(2.00)		
4.00	SPT	N = 15 (4, 5, 4, 3, 5, 3)						
4.00	D11							
4.00-4.50	B13			169.71		4.80		
5.00	SPT	N = 28 (3, 8, 5, 5, 11, 7)					Dense wet grey silty very sandy GRAVEL with cobbles. Cobbles are angular. Gravel is fine and medium.	
5.00	D14							
5.00-5.50	B16					(1.20)		
				168.51		6.00		
6.00	D17						Very stiff wet grey slightly sandy gravelly SILT with cobbles. Cobbles are angular.	
6.50	SPT	40 for 150 mm (5, 7, 15, 25)				(0.80)		
6.80	SPT	25 for 75 mm (25, 25, 25)		167.71		6.80		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
17-06-25	17.30	1.50	6.80	203	
18-06-25	08.00	1.50			
18-06-25	16.00	6.80			

Chiselling

From	To	Hours
6.5	6.8	0:30
6.8		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 6.80m bgl.
Obstruction as possible rock.
BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M25**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	19-06-25 20-06-25	175.73	E 537,564.4 N 816,405.5

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.60m 3.00m 2nd: 3rd:	1 of 2 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			175.53		0.20	TOPSOIL.	
							Brown silty SAND and GRAVEL.	
1.00	SPT	N = 11 (2, 1, 3, 2, 3, 3)					1.00m; medium dense.	
1.00	D2							
1.00-1.50	B4					(3.10)		
2.00	SPT	N = 14 (3, 3, 3, 4, 2, 5)						
2.00	D5							
2.00-2.50	B7		1					
3.00	SPT	N = 17 (4, 3, 5, 3, 5, 4)		172.43		3.30		
3.00	D8						Stiff wet brown sandy gravelly SILT with occasional cobbles.	
3.00-3.50	B10		1					
4.00	SPT	N = 10 (2, 2, 3, 2, 2, 3)						
4.00	D11							
4.00-4.50	B13					(2.20)		
5.00	SPT	N = 12 (2, 3, 3, 3, 3, 3)						
5.00	D14			170.23		5.50		
5.00-5.50	B16						Medium dense wet brownish grey silty very sandy GRAVEL with cobbles.	
6.00	D17							
6.50	SPT	N = 15 (3, 4, 3, 3, 5, 4)						
6.50-7.00	B19					(2.40)		
				167.83		7.90		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
19-06-25	17.30	5.50	7.90	203	
20-06-25	08.00	5.50			2.00
20-06-25	16.00	7.90			2.00

Chiselling

From	To	Hours
7.9		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 7.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M25**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	19-06-25 20-06-25	175.73	E 537,564.4 N 816,405.5

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 3.60m 3.00m 2nd: 3rd:	Sheet 2 of 2 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
7.90	SPT	50 for 150 mm (17, 5, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	BH terminated at 7.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M26**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-06-25 25-06-25	182.32	E 537,842.1 N 816,258.2

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument/ Backfill
0.00-1.00	B1			181.92		(0.40) 0.40	MADE GROUND: Tar and fill.	
1.00	SPT	N = 6 (2, 4, 3, 1, 1, 1)		181.02		(0.90) 1.30	Firm grey slightly gravelly sandy SILT.	
1.00 1.00-1.50	D2 B4			180.72		1.60	Soft black PEAT.	
1.70	SPT	25 for 75 mm (25, 25, 25)		180.62		1.70	Firm grey sandy SILT.	

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
25-06-25	16.00	1.70	1.70	203	

Chiselling

From	To	Hours
0.3	0.8	1:00
1.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 1.70m bgl. Obstruction as possible boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M27**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	26-06-25 26-06-25	166.15	E 538,608.9 N 815,972.4

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			165.65		(0.50) 0.50	MADE GROUND: Tar and fill.	
						(0.60)	Very loose brown very gravelly SAND.	
1.00	SPT	N = 2 (1, 1, 0, 0, 1, 1)		165.05		1.10		
1.00	D2					(0.50)	Soft black PEAT.	
1.00-1.50	B4			164.55		1.60		
						(0.40)	Medium dense light brown very silty very gravelly SAND.	
2.00	SPT	N = 15 (2, 3, 3, 4, 3, 5)		164.15		2.00	Firm brownish grey slightly sandy gravelly SILT with frequent cobbles.	
2.00	D5							
2.00-2.50	B7							
						(1.90)		
3.00	SPT	N = 30 (3, 6, 8, 4, 13, 5)					3.00m; becoming stiff.	
3.00	D8							
3.00-3.50	B10							
				162.25		3.90		
3.90	SPT	50 for 150 mm (19, 6, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
26-06-25	16.00	3.90	3.90	203		3.9		1:00			BH terminated at 3.90m bgl. Obstruction as probable boulder. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-04-25 04-04-25	200.71	E 536,376.4 N 817,489.8

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1					(0.50)	Firm black fibrous PEAT.	
				200.21		0.50		
							Medium dense brownish grey very silty very gravelly SAND with occasional cobbles. Sand is medium.	
1.00	SPT	N = 19 (3, 5, 4, 5, 6, 4)						
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 16 (3, 3, 3, 3, 5, 5)						
2.00	D5							
2.00-2.50	B7					(4.40)		
3.00	SPT	N = 10 (11, 4, 2, 2, 2, 4)						
3.00	D8							
3.00-3.50	B10							
4.00	SPT	N = 34 (6, 8, 10, 6, 9, 9)					4.00m: becoming dense.	
4.00	D11						4.00: dense.	
4.00-4.50	B13							
				195.81		4.90		
4.90	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
04-04-25	13.00	4.90	4.90	203		4.9		1:00			BH terminated at 4.90m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-04-25 07-04-25	205.87	E 536,391.2 N 817,437.8

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1					(0.60)	Very soft blackish brown PEAT.	
				205.27		0.60		
1.00	SPT	N = 15 (2, 5, 3, 6, 3, 3)					Medium dense brown very silty very gravelly medium SAND with occasional cobbles. Cobbles are rounded.	
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 19 (4, 2, 7, 3, 5, 4)				(3.40)		
2.00	D5							
2.00-2.50	B7							
3.00	SPT	N = 11 (2, 2, 2, 3, 2, 4)						
3.00	D8							
3.00-3.50	B10							
				201.87		4.00		
4.00	D11							

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
07-04-25	13.00	4.00	3.00	203						

GENERAL REMARKS

BH terminated at 4.00m bgl. Borehole stopped as rig unstable on soft ground. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-04-25 10-04-25	127.99	E 540,383.7 N 814,284.5

Engineer	GROUNDWATER STRIKES	Sheet
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			127.69		0.30	MADE GROUND: Clause 804 type material and cobbles.	
							Grey slightly sandy gravelly SILT with cobbles and boulders.	
1.00	SPT	N = 30 (3, 6, 8, 4, 13, 5)					1.00m: very stiff. 1.00: dense.	
1.00	D2							
1.00-1.50	B4					(2.80)		
2.00	SPT	N = 26 (4, 3, 3, 12, 6, 5)					2.00m; stiff.	
2.00	D5							
2.00-2.50	B7							
3.00	SPT	25 for 75 mm (25, 25, 25)		124.89		3.10		
3.00	D8							

Boring Progress and Water Observations						Chiselling			Water Added	
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To
09-04-25	17.30	2.00	3.00	203		1.2	1.5	0:30		
10-04-25	08.00	2.00				3.1		1:00		
10-04-25	11.00	3.10								

GENERAL REMARKS

Hand dig inspection pit to 1.20m bgl. BH terminated at 3.10m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-04-25 09-04-25	123.71	E 540,463.2 N 814,259.7

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: 1st: dry 2nd: 3rd: Rose to (@ 20 min.): Sealed at:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			123.41		0.30	TOPSOIL.	
1.00	SPT	N = 50 (12, 11, 7, 11, 21, 11)		121.81		(1.60) 1.90	Brown very silty very sandy angular GRAVEL with cobbles. Cobbles are angular. Sand is medium and coarse. Gravel is fine and medium. 1.00m; very dense. 1.00: very dense.	
1.00	D2							
1.00-1.50	B4							
2.00	SPT	N = 22 (6, 8, 5, 5, 7, 5)		120.81		(1.00) 2.90	Stiff grey brown slightly sandy slightly gravelly SILT.	
2.00	D5							
2.00-2.50	B7							
3.00	SPT	N = 8 (5, 3, 4, 2, 1, 1)		118.81		(2.00) 4.90	Soft wet grey slightly gravelly slightly sandy SILT with cobbles. Cobbles are angular of limestone.	
3.00	D8							
3.00-3.50	B10							
4.00	SPT	N = 6 (1, 2, 1, 1, 2, 2)		117.81		(1.00) 5.90	Medium dense grey very silty very sandy GRAVEL with cobbles. Cobbles are angular of limestone.	
4.00	D11							
4.00-4.50	B13							
5.00	SPT	N = 17 (3, 5, 4, 4, 3, 6)						
5.00	D14							
5.00-5.50	B16							
5.90	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
08-04-25	17.30	4.90	5.90	203	
09-04-25	08.00	4.90			
09-04-25	11.00	5.90			

Chiselling

From	To	Hours
1	2	0:30
5.9		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 5.90m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-02-25 05-02-25	12.51	E 517,342.1 N 816,772.8

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1			12.41		0.10	MADE GROUND: Tar and fill.	
				12.01		(0.40) 0.50	MADE GROUND: 3" and down type material.	
1.00	D2					(1.70)	Greyish brown very silty very sandy medium GRAVEL with cobbles. Cobbles are of limestone.	
1.50	SPT	N = 50 (6, 8, 10, 19, 19, 2)					1.50m: very dense.	
1.50-1.90	B4							
2.00	D5			10.31		2.20		
2.00-2.50	B7							
2.20	SPT	25 for 75 mm (25, 25, 25)		10.01		2.50	Very dense moist grey silty sandy GRAVEL with occasional cobbles. Cobbles are of limestone.	
2.50	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m	From	To	Hours	From	To	
04-02-25	17.00	2.20	2.50	203		1.8	2.2	0:30			Hand dig inspection pit to 1.20m bgl. Cut tar. BH terminated at 2.50m bgl. Obstruction as possible boulder. BH reinstated.
05-02-25	08.00	2.20				2.2		0:30			
05-02-25	12.00	2.50				2.5		1:00			

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-02-25 05-02-25	9.60	E 517,389.6 N 816,739.8

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: dry 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Instrument/ Backfill
0.00-1.00	B1			9.30		0.30	Rounded beach COBBLES.	
						(0.80)	Grey slightly sandy gravelly SILT.	
1.00	SPT	25 for 75 mm (25, 25, 25)		8.50		1.10	1.00m: very stiff.	
1.00	D2							

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
05-02-25	12.00	1.10	1.10	203	

Chiselling

From	To	Hours
1.1		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 1.10m bgl. Obstruction as possible boulder. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

BOREHOLE LOG

Project	Location	BOREHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH02A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-02-25 05-02-25	9.66	E 517,392.5 N 816,739.5

Engineer	GROUNDWATER STRIKES	Sheet / Status
Atkins Realis	Water strikes: Rose to (@ 20 min.): Sealed at: 1st: 1.90m 0.50m 2nd: 3rd:	Sheet 1 of 1 Status FINAL

SAMPLES & TESTS			Water	STRATA				Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	
0.00-1.00	B1		1	9.16		(0.50) 0.50	Rounded beach COBBLES and GRAVEL.	
1.00	SPT	N = 7 (2, 1, 1, 2, 2, 2)				(2.20)	Loose wet grey very silty very sandy medium GRAVEL with cobbles.	
1.00	D2							
1.00-1.50	B4		1					
2.00	SPT	N = 8 (2, 2, 2, 1, 2, 3)						
2.00	D5							
2.00-2.50	B7			6.96		2.70		
2.70	SPT	25 for 75 mm (25, 25, 25)						

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water (bgl) Depth, m
05-02-25	17.00	2.70	2.70	203	0.50

Chiselling

From	To	Hours
2.7		1:00

Water Added

From	To

GENERAL REMARKS

BH terminated at 2.70m bgl.
Obstruction as possible rock.
BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: Dando 2000		Driller: DK	Logged By: DK

IDL AGS4 UK BH LOUGH TALT CP ALL FILE AUG 20 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Appendix 2
Borehole Records
(Rotary Core)

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-07-25 11-07-25	8.16	E 525,893.4 N 820,951.2

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			7.96	0.20	0.00 - 2.20 : overburden.	CONCRETE.	
	25 -			(1.80)		Firm dark brown slightly sandy SILT. Sand is fine.	
2.00		2.00 (56/150mm)	6.16 5.96	2.00 2.20		Subrounded to subangular fine to coarse assorted light grey and dark grey limestone GRAVEL.	
	100 (26) -	NI		(2.00)	2.20 - 4.20 Non-intact as possible weathered rock.	Weathered rock. Strong and medium strong thinly laminated dark grey and grey slightly bioclastic fine and medium grained limestone recovered as subangular and angular fine to coarse gravel and cobble sized clasts with some dark grey gravelly silt.	
3.50							
	100 (44) 17		3.96	4.20			
4.70		6			4.20 - 7.90 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick grey silt smear. 4.60 - 5.20 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear and minor surficial orangish brown iron stain, open.	Very strong locally strong thinly interbedded dark grey and grey slightly bioclastic fine and medium grained LIMESTONE with subvertical and randomly orientated white calcitic veinlet.	
	100 (95) 69	5					
6.30				(3.70)			
		4			6.65 - 6.75 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.		
	100 (97) 67						
		3			7.55 - 7.90 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear and surficial visible iron pyrite,		
11.07 7.90			0.26	7.90			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
11/07/25	16.00	7.90					0.90

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	7.9	Water	100

GENERAL REMARKS

BH terminated at 7.90m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-07-25 11-07-25	8.16	E 525,893.4 N 820,951.2

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
						open.			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 7.90m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-07-25 14-07-25	6.36	E 525,842.0 N 821,026.3

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main
0.00						0.00 - 0.70 : overburden.	Firm dark brown gravelly SILT. Gravel is subangular to subrounded fine and medium of assorted grey limestone and assorted metamorphic clasts.
			5.66		(0.70) 0.70		
	38 - -					0.70 - 2.80 Non-intact as weathered rock.	Weathered rock. Strong and medium strong thinly bedded grey bioclastic slightly bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with some brown silt.
2.00		NI			(2.10)		
	100 (17) -		3.56		2.80		
3.00		3				2.80 - 8.20 DISC, medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick dark grey silt smear.	Very strong locally strong thinly bedded grey bioclastic fine and medium grained LIMESTONE.
	100 (71) 55						
3.60		5					
	100 (96) 75						
		5				4.70 - 4.90 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.	
5.10					(5.40)		
	100 (91) 71	3					
6.60		4				6.25 - 6.45 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open. 6.60 - 6.80 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open.	
	100 (97) 94						
		4					

Instrument/ Backfill

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.2	Water	100

GENERAL REMARKS

BH terminated at 8.20m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller LM	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-FR02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-07-25 14-07-25	6.36	E 525,842.0 N 821,026.3

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
14.07 8.20			-1.84		8.20				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
14/07/25	17.30	8.20					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 8.20m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller LM	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-03-25 03-03-25	63.65	E 519,817.3 N 827,321.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			63.62		0.03	0.00 - 1.60 : overburden.		ASPHALT.	
	60 -							Subangular fine to coarse assorted light grey and dark grey limestone GRAVEL.	
1.00	-	1.00 (20)			(1.57)				
	60 (41) 18		62.05		1.60	1.00m: medium dense.			
2.00		8				1.60 - 7.10 DISC, medium spaced, locally very closely and closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear.		Very strong locally strong and weak thinly bedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
	100 (95) 76	9							
3.50		4							
	100 (97) 86				(5.50)				
		6				4.45 - 4.50 Joint, dipping 45°, stepped, rough, with 0.5 to 1mm thick brownish grey silt smear, open.			
5.00									
	100 (98) 71	8				5.45 - 5.80 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brownish grey silt smear, open.			
6.50									
	100 (95) 77	7							
03.03 7.10			56.55		7.10				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
03/03/25	14.00	7.10	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	7.1	Water	100

GENERAL REMARKS

BH terminated at 7.10m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	27-02-25 27-02-25	63.79	E 519,884.9 N 827,309.2

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			63.74		0.05	0.00 - 1.50 : overburden.		ASPHALT.	
	65 (34) 9				(1.45)			Subangular fine to coarse assorted light grey and dark grey limestone GRAVEL with some brown clay and minor orangish brown iron stain.	
			62.29		1.50				
2.00		20				1.50 - 15.40 DISC, very closely and closely spaced, locally medium spaced from 6.50m, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick brown clay smear.		Strong and very strong thinly bedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
	100 (96) 43	18				2.00m: becoming very strong.			
3.50		11							
	100 (91) 54								
		12				4.40 - 4.55 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick bluish grey silt smear, open.			
5.00									
	100 (96) 30	23				5.40 - 5.50 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick bluish grey silt smear, open. 5.75 - 6.00 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick bluish grey silt smear and orangish brown iron stain, open.			
6.50		10							
	100 (96) 91								
		6							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15.4	Water	100

GENERAL REMARKS

BH terminated at 15.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	27-02-25 27-02-25	63.79	E 519,884.9 N 827,309.2

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
								Strong and very strong thinly bedded grey and dark grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
					(13.90)				
	100 (97) 92	7							
9.50		6							
	100 (97) 82	8							
11.00									
	100 (95) 85	8							
12.50		6							
	100 (97) 94	6							
14.00									
	100 (97) 95	4							
27.02 15.40		3	48.39		15.40				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
27/02/25	16.00	15.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG3A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-03-25 04-03-25	63.27	E 519,902.7 N 827,294.7

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main
0.00	60 -					0.00 - 1.60 : overburden.	Subangular fine to coarse assorted grey limestone GRAVEL with some brown clay and minor orangish brown iron stain.
1.00	63 (33) -	1.00 (53/150mm)	61.67		(1.60) 1.60		
1.80	100 (61) -	NI	59.47		(2.20) 3.80	1.60 - 3.80 Non-intact as weathered rock.	Weathered rock. Strong and medium strong thinly laminated brownish grey slightly bioclastic fine grained limestone thinly interbedded with brown silt with surficial orangish brown iron stain recovered as angular fine to coarse gravel sized clasts with some brown silt.
3.30							
4.80	100 (83) 61	9				3.80 - 12.50 DISC, very closely spaced locally closely spaced to 4.20m, then medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 1mm thick brown clay smear.	Very strong locally strong thinly bedded grey bioclastic fine and medium grained LIMESTONE.
6.30	100 (96) 57	9				5.10 - 5.25 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear and minor surficial orangish brown iron stain and powder, open.	
7.80	100 (94) 65	8 7					

Instrument/ Backfill

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.5	Water	100

GENERAL REMARKS

BH terminated at 12.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG3A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-03-25 04-03-25	63.27	E 519,902.7 N 827,294.7

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
					(8.70)			Very strong locally strong thinly bedded grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
	100 (95) 94	5							
9.40									
		5							
	100 (96) 94								
		5							
10.90									
	100 (97) 95	5							
04.03 12.50		4	50.77		12.50				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
04/03/25	16.00	12.50										BH terminated at 12.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG4**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-02-25 28-02-25	63.45	E 519,844.6 N 827,275.1

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 2.60 : overburden.		Subangular fine to medium assorted grey limestone GRAVEL with a little brown silt.	
	19 - -				(2.60)				
2.60			60.85		2.60				
	100 (97) 74	5				2.60 - 15.20 DISC, medium spaced, locally closely and very closely spaced, dipping 8 to 10°, stepped, smooth, with 0.5 to 2mm thick grey silt smear.		Very strong locally strong thinly interbedded grey bioclastic fine and medium grained LIMESTONE.	
3.50		10				3.30 - 3.45 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greyish brown clay smear over 1 to 2mm white calcite veinlet, open.			
	100 (96) 87								
		6							
5.00									
	100 (96) 79	11							
6.50									
		7							
	100 (98) 72								
		9							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15.2	Water	100

GENERAL REMARKS

BH terminated at 15.20m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG4**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-02-25 28-02-25	63.45	E 519,844.6 N 827,275.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (97) 90	6			(12.60)			Very strong locally strong thinly interbedded grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.50		5							
	100 (97) 96	6							
11.00						10.70m to 15.20m: thinly interbedded grey and dark grey.			
	100 (97) 92	6							
12.50		8							
	100 (97) 94	5				12.90 - 13.10 Joint, subvertical dip, stepped, rough, with 0.5mm thick grey silt smear over 1 to 5mm white calcite crystal assemblage, open.			
14.00									
	100 (97) 94	6							
28.02 15.20			48.25		15.20				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
28/02/25	16.00	15.20					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.20m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG5**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	26-02-25 26-02-25	62.97	E 519,805.6 N 827,208.0

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Depth (Thick-ness)	DESCRIPTION		Instrument/ Backfill
					Discontinuities / Detail	Main	
0.00					0.00 - 2.00 : overburden.	Subangular fine to coarse assorted grey limestone GRAVEL with cobbles and a little brown clay. Cobbles are of grey limestone.	
	- - -			(2.60)			
2.00					2.00 - 3.20 Non-intact as weathered rock.		
			60.37	2.60			
	87 (54) -	NI		(0.60)		Weathered rock. Strong and medium strong, locally weak thinly interbedded brownish grey and dark grey bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel sized clasts with a little brown silt.	
			59.77	3.20			
3.50		14			3.20 - 12.10 DISC, closely spaced, locally very closely spaced to 5.40m, then medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 2mm thick grey silt smear. 3.90 - 3.95 Joint, dipping 45°, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.	Very strong locally strong and medium strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
	100 (96) 21	16					
5.00					4.70 - 4.76 Joint, subvertical dip, stepped, rough, with 0.5mm thick greyish blue silt smear, open.		
	100 (95) 67	14					
6.50		7					
	100 (95) 67				7.00 - 7.25 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open.		
		6		(8.90)			
8.00							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			2.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.1	Water	100

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG5**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	26-02-25 26-02-25	62.97	E 519,805.6 N 827,208.0

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS				STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	DESCRIPTION Main	Instrument/ Backfill
	100 (94) 75	7				8.90 - 9.00 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open. 9.30 - 9.35 Joint, dipping 45°, stepped, rough, with 0.5 to 1mm thick brown silt smear, open.	Very strong locally strong and medium strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.50		6						
	100 (95) 84							
10.90		6						
	100 (96) 94	4						
26.02 12.10			50.87		12.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
26/02/25	15.00	12.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG6**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-02-25 25-02-25	63.07	E 519,832.2 N 827,212.4

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			62.97		0.10	0.00 - 2.70 : overburden.		TOPSOIL: Grass over firm brown slightly gravelly SILT. Gravel is subangular fine to coarse of assorted grey limestone.	
	50 -				(2.60)			Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with a little brown slightly sandy silt. Sand is fine to coarse.	
2.00			60.37		2.70				
	100 (60) 14	26				2.70 - 15.50 DISC, closely spaced, locally very closely spaced to 4.60m, then medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 8mm thick grey silt smear.		Very strong locally strong and medium strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
3.50		14							
	100 (96) 39					4.15 - 4.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear, open.			
		16							
5.00						5.10m to 5.15m: medium strong fissile.			
	100 (95) 44	11				5.15 - 5.45 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
						5.95 - 6.25 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
6.50		10							
	100 (95) 72								
		6							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			2.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15.5	Water	100

GENERAL REMARKS

BH terminated at 15.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG6**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-02-25 25-02-25	63.07	E 519,832.2 N 827,212.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
								Very strong locally strong and medium strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
	100 (97) 80	7			(12.80)				
9.50		9				9.65 - 9.80 Joint, subvertical dip, planar, smooth, with 0.5 to 1mm thick grey silt smear, open.		9.38-9.50m: weak.	
	100 (95) 68	9				10.43 - 10.43 10.40m to 10.43m: medium strong fissile. 10.50 - 10.65 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open.			
11.00									
	100 (97) 95	6							
12.50		6				12.90 - 13.35 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear, open.			
	100 (87) 69	7				13.70 - 14.00 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greyish blue silt smear, open.			
14.00									
	100 (90) 63	7				14.80 - 14.95 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick greyish blue silt smear, open.			
25.02 15.50		5	47.57		15.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
25/02/25	15.00	15.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LG7**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-03-25 05-03-25	50.47	E 520,052.9 N 826,826.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main	Instrument/ Backfill
0.00			50.17		0.30	0.00 - 0.70 : overburden.	TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine.	
			49.77		(0.40) 0.70		Subangular fine and medium assorted grey limestone GRAVEL.	
	88 (5) -					0.70 - 2.30 Non-intact as weathered rock. 0.71 - 2.30 PROB, vertical dip, stepped, rough, with 0.5 to 2mm thick brown silt smear, non-intact.	Weathered rock. Strong medium strong and very strong thinly bedded dark grey slightly bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel sized clasts with some brown clay.	
1.70		NI			(1.60)			
			48.17		2.30			
	100 (63) 29	28				2.30 - 6.30 DISC, very closely spaced and closely spaced to 3.00m, then medium spaced, locally very closely and closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 8mm thick brown clay smear. 2.70 - 2.80 Joint, vertical dip, stepped, rough, with 0.5 to 2mm thick brown silt smear, open.	Very strong locally strong and medium strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
3.20		12				2.90m to 3.00m: medium strong dark grey fissile silty.		
	100 (95) 46				(4.00)	3.30m to 3.35m: medium strong dark grey fissile silty.		
4.70		16				4.10m to 4.15m: medium strong dark grey fissile silty. 4.15 - 4.25 Joint, vertical dip, stepped, rough, clean, open as possible drilling induced.		
	100 (97) 82	8				4.60m to 4.65m: medium strong dark grey fissile silty.		
05.03 6.30		1	44.17		6.30	4.70m to 6.30m: becoming grey.		

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
05/03/25	16.00	6.30	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.3	Water	100

GENERAL REMARKS

BH terminated at 6.30m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-03-25 10-03-25	44.02	E 520,454.7 N 826,864.0

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument / Backfill
0.00			43.92		0.10	0.00 - 1.50 : overburden.	TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine.	
	25 (8) -				(1.40)		Subangular fine and medium assorted grey limestone GRAVEL with a little brown silt.	
			42.52		1.50	1.50 - 4.10 Non-intact as possible weathered rock.	Possible weathered rock. Strong medium strong and very strong thinly bedded grey slightly bioclastic fine grained limestone recovered as angular fine to coarse gravel sized clasts with some brown silt.	
2.00								
	33 (9) -	NI 3.00 (25/75mm)			(2.60)			
3.50								
			39.92		4.10			
	100 (59) 7					4.10 - 12.10 DISC, very closely and closely spaced to 7.00m, then medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 1mm thick grey silt smear.	Very strong locally strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
		27						
5.00						5.00 - 6.00 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open.		
	100 (58) 11	24						
6.60		20						
	100 (96) 40							
		8						
8.00						7.80 - 8.00 Joint, subvertical dip, planar,		

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.1	Water	100

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	07-03-25 10-03-25	44.02	E 520,454.7 N 826,864.0

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main	Instrument/ Backfill
					(8.00)	smooth, with 0.5 to 1mm thick grey silt smear, open.	Very strong locally strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
	100 (97) 74	3						
9.50		12				9.20 - 9.27 Joint, subvertical dip, planar, smooth, with 0.5 to 1mm thick grey silt smear, open.		
	100 (89) 51					10.00 - 10.25 Joint, subvertical dip, planar, smooth, with 0.5 to 1mm thick grey silt smear, open.		
		13				10.42 - 10.42 10.40m to 10.42m: with visible finely disseminated pyrite.		
11.00						10.80 - 11.35 Joint, subvertical dip, stepped, smooth, with 0.5 to 1mm thick grey silt smear, open.		
	100 (97) 65	8						
07.03 10.03 12.10			31.92		12.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
07/03/25	17.30	12.10					
10/03/25	08.00	12.10					
10/03/25	10.00	12.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	06-03-25 06-03-25	45.42	E 520,298.0 N 826,828.8

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			45.22		0.20	0.00 - 1.70 : overburden.		TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine. 0.20m with clear plastic fragment.	
	58 -				(1.50)			Subangular fine and medium assorted grey limestone GRAVEL with a little grey silt.	
1.70			43.72		1.70				
	100 (22) -					1.70 - 3.00 Non-intact as weathered rock.		Weathered rock. Strong medium strong and very strong thinly bedded dark grey and grey bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel sized clasts with some brown silt and minor surficial orangish brown iron stain.	
2.30		NI			(1.30)				
	100 (66) 17		42.42		3.00				
3.60		13				3.00 - 12.40 DISC, very closely and closely spaced, locally medium spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick brown silt smear. 3.10 - 3.15 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear and surficial orangish brown iron stain, open. 3.85 - 4.35 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear and surficial orangish brown iron stain, open.		Very strong and strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. Weak along discontinuities with 1 to 2mm thick penetration.	
	100 (79) 39	17							
5.20		15							
	100 (94) 37								
6.70		18				6.60 - 7.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
	100 (70) 14	NI				7.30 - 7.30 7.10m to 7.30m: medium strong and weak dark grey fissile silty.			
		7			(9.40)				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.4	Water	100

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-LR2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	06-03-25 06-03-25	45.42	E 520,298.0 N 826,828.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS				STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
8.20							Very strong and strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. Weak along discontinuities with 1 to 2mm thick penetration. *(continued)*	
	100 (86) 66	13				8.60 - 8.70 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.		
9.70		8				9.70 - 9.85 Joint, subvertical dip, stepped, smooth, with 0.5 to 1mm thick grey silt smear, open.		
	100 (97) 82	7						
11.30								
	100 (98) 97	6						
06.03 12.40		3	33.02		12.40			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
06/03/25	15.00	12.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	38.56	E 521,985.3 N 826,508.4

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			38.52		0.04	0.00 - 2.20 : overburden.		ASPHALT.	
								MADE GROUND: Brown gravelly CLAY. Gravel is subangular and angular fine to coarse of assorted grey limestone.	
	40 - -				(2.16)				
2.00			36.36		2.20				
	80 (49) 35	9				2.20 - 10.10 DISC, medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 3mm thick dark grey silt smear.		Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE.	
3.50		5						3.30-3.40m: extremely strong.	
	100 (98) 96	3							
5.00									
	100 (97) 94	6			(7.90)				
6.50		5							
	100 (98) 97	3							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	10.1	Water	100

GENERAL REMARKS

BH terminated at 10.10m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	38.56	E 521,985.3 N 826,508.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (98) 97	1						Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.50									
	100 (98) 96	4							
29.07 10.10			28.46		10.10				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
29/07/25	16.00	10.10					1.30					BH terminated at 10.10m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-07-25 28-07-25	33.73	E 522,077.0 N 826,215.4

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			33.70		0.03	0.00 - 7.20 : overburden.		ASPHALT.	
	60							MADE GROUND: Angular fine to medium assorted grey limestone GRAVEL with fine gravel sized clasts of tarmac.	
1.00					(1.97)				
	60								
2.00			31.73		2.00				
		2.00 (33)						No recovery. Drillers Comment: Clay.	
3.50		3.50 (8)			(4.50)				
5.00		5.00 (9)							
6.50			27.23		6.50				
	83	6.50 (15)			(0.70)			Stiff greyish brown slightly gravelly SILT. Gravel is subangular fine and medium of assorted grey limestone.	
7.10			26.53		7.20				
	100 (87) 55	9				7.20 - 10.00 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 5mm thick brown silt smear.		Very strong locally strong and weak thinly interbedded grey and dark grey slightly bioclastic fine and medium grained LIMESTONE with subvertical white calcitic veinlets.	

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	0.6	Water	100
0.6	10	Water	0

GENERAL REMARKS

BH terminated at 10.00m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-07-25 28-07-25	33.73	E 522,077.0 N 826,215.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
8.40		4				8.20 - 8.40 Joint, vertical dip, stepped, rough, with 0.5 to 3mm thick greyish brown silt smear over 2mm thick white calcitic veinlet, open.		Very strong locally strong and weak thinly interbedded grey and dark grey slightly bioclastic fine and medium grained LIMESTONE with subvertical white calcitic veinlets. *(continued)*	
		NI			(2.80)	8.30m to 8.40m: non-intact as angular fine to medium gravel sized clasts.			
	100 (85) 83	3							
		4						9.70-10.00m; extremely weak.	
28.07 10.00			23.73		10.00	9.80m to 9.85m: 0.5mm deep vug infilled with white calcitic crystal assemblage.			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
28/07/25	15.00	10.00					5.00

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 10.00m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-05-25 19-05-25	28.59	E 522,224.9 N 825,423.5

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 8.90 : overburden.		Open hole drilling. No recovery.	
	- - -				(4.70)				
4.70			23.89		4.70				
	100 - -							Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with cobbles and a little grey silt. Cobbles are of assorted grey limestone.	
5.00									
	53 - -								
6.50		6.50 (25/75mm)			(4.20)				
	47 - -								
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	4	Water	100
4	13.5	Water	0

GENERAL REMARKS

BH terminated at 13.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-05-25 19-05-25	28.59	E 522,224.9 N 825,423.5

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	67 -	8.00 (50/75mm)						Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with cobbles and a little grey silt. Cobbles are of assorted grey limestone. *(continued)*	
8.90			19.69		8.90				
	83 (68) -					8.90 - 12.00 Non-intact as weathered rock. No recovery as washout of fines during drilling. No record of cavity.		Weathered rock. Strong and medium strong thinly bedded grey slightly bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with some greenish grey silt and minor surficial visible finely disseminated pyrite. 9.20-9.35m: weak.	
9.50									
	33 (11) -	NR							
11.00					(4.60)				
	70 (33) -								
12.00						12.00 - 13.50 Non-intact as weathered rock.			
	100 (57) 15	NI							
13.05 13.50 19.05			15.09		13.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
13/05/25	17.30	13.50					
19/05/25	08.00	13.50					
19/05/25	10.00	13.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 13.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	19-05-25 20-05-25	29.11	E 522,230.1 N 825,449.9

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00						0.00 - 1.80 : overburden.	Open hole drilling. No recovery.	
	- - -				(1.50)			
1.50			27.61		1.50			
	100 (14) -		27.31		1.80		Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with cobbles and a little grey silt. Cobbles are of assorted grey limestone.	
2.00						1.80 - 3.00 Non-intact as weathered rock.		
	100 (55) 18	NI			(1.20)		Weathered rock. Very strong and strong thinly bedded grey bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with a little brown silt and surficial orangish brown iron stain and powder.	
			26.11		3.00			
3.50		8				3.00 - 12.40 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, planar, rough, with 0.5 to 3mm thick dark grey silt smear.	Extremely strong locally very strong, strong and medium strong thinly interbedded dark grey and grey bioclastic fine and medium grained LIMESTONE.	
	100 (95) 72	6						
19.05 5.10 20.05						4.80 - 5.10 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.		
	100 (95) 86	5						
6.50		7						
	100 (96) 82							
		5			(9.40)			
7.90								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
19/05/25	17.30	5.10	2.50	96			
20/05/25	08.00	5.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.4	Water	100

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M03A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	19-05-25 20-05-25	29.11	E 522,230.1 N 825,449.9

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (90) 70	6				8.50 - 8.90 Joint, subvertical dip, stepped, smooth, clean, open as drilling induced?		Extremely strong locally very strong, strong and medium strong thinly interbedded dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.40		6				9.40m to 9.70m: strong black fine grained.			
	100 (82) 65								
10.80		10				10.50m to 10.80m: strong black fine grained. 10.50 - 10.80 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
	100 (97) 96	3							
20.05 12.40			16.71		12.40				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
20/05/25	17.30	12.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-05-25 14-05-25	29.56	E 522,218.7 N 825,263.4

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 4.00 : overburden.		Open hole drilling. No recovery.	
	-				(3.70)				
3.70			25.86		3.70				
			25.56		4.00			Subrounded to subangular fine to coarse assorted grey limestone GRAVEL.	
	100 (79) 57	8				4.00 - 10.80 DISC, medium spaced, locally closely and very closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 7mm thick grey silt smear.		Strong locally very strong and medium strong thinly interbedded dark grey and grey slightly bioclastic fine and medium grained LIMESTONE.	
5.20						4.30m to 4.35m: medium strong thinly laminated fissile. 4.70 - 4.80 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
	100 (92) 72	4							
6.70		10				6.30m to 6.35m: medium strong thinly laminated fissile. 6.50 - 6.60 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick bluish grey silt smear, open.			
	100 (98) 96				(6.80)				
		4							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	4	Water	100
4	10.8	Water	0

GENERAL REMARKS

BH terminated at 10.80m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-05-25 14-05-25	29.56	E 522,218.7 N 825,263.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main	Instrument/ Backfill
	100 (98) 96	2				8.00 - 8.10 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.	Strong locally very strong and medium strong thinly interbedded dark grey and grey slightly bioclastic fine and medium grained LIMESTONE. *(continued)*	
8.90								
	100 (92) 90	6				9.70 - 9.80 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick dark grey silt smear, open.		
10.30								
	100 (94) 93	1						
T4.05 10.80			18.76		10.80			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
14/05/25	17.30	10.80					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 10.80m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-05-25 15-05-25	29.82	E 522,219.0 N 825,277.1

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 4.10 : overburden.		Open hole drilling. No recovery.	
	- - -				(4.00)				
4.00			25.82		4.00				
	100 (67) 40		25.72		4.10			Subrounded to subangular fine to coarse assorted grey limestone GRAVEL.	
4.30						4.10 - 4.70 Non-intact as weathered rock.			
	100 (78) 20	NI	25.12		(0.60) 4.70			Weathered rock. Very strong and strong thinly bedded grey bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with some grey silt.	
5.00						4.70 - 12.40 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 4mm thick grey silt smear.			
		8						Extremely strong locally very strong and medium strong thinly interbedded dark grey and grey bioclastic fine and medium grained LIMESTONE.	
	100 (94) 51								
6.60		8				6.30m to 6.50m: medium strong thinly laminated fissile.			
	100 (96) 82								
7.80		6							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	4	Water	100
4	12.4	Water	0

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M04A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-05-25 15-05-25	29.82	E 522,219.0 N 825,277.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (90) 70	6			(7.70)			Extremely strong locally very strong and medium strong thinly interbedded dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.30		6				8.90 - 9.30 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey carbonate crystal smear and from 10.10m with 0.5 to 2mm thick grey silt smear, open. 9.35 - 9.55 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick white carbonate crystal veinlet, tight.		
	100 (98) 94								
10.90		3				10.60m to 12.40m: with flat and subrounded fine to coarse gravel sized very strong dark grey fine grained chert nodules.			
	100 (97) 96	3							
15.05 12.40		0	17.42		12.40				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
15/05/25	17.30	12.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	38.25	E 522,678.9 N 823,930.4

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			38.17		0.08	0.00 - 6.50 : overburden.		ASPHALT.	
	70 -				(0.92)			MADE GROUND: Subangular to angular fine and medium grey limestone GRAVEL with fine to coarse gravel sized clasts of tarmac.	
1.00			37.25		1.00				
	53 -							Angular fine to coarse assorted grey limestone GRAVEL with cobbles and a little brownish grey silt. Cobbles are of assorted grey limestone.	
2.50									
	75 -								
3.50					(5.50)				
	80 -								
5.00									
	87 -								
6.50			31.75		6.50				
	100 (74) 57	4				6.50 - 11.70 DISC, medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 10mm thick dark grey silt smear. 6.51 - 6.56 Joint, dipping 45°, undulating, tight. 6.70 - 6.85 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open. 7.45 - 7.65 Joint, subvertical dip, stepped,		Strong locally very strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE.	
8.00		11							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1.6	Water	100
1.6	11.7	Water	0

GENERAL REMARKS

BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	38.25	E 522,678.9 N 823,930.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main	Instrument/ Backfill
	100 (91) 77	7			(5.20)	rough, with 0.5 to 3mm thick dark grey silt smear, open to moderately wide. 7.65m to 7.70m: firm grey silt. 8.55 - 8.60 Joint, dipping 45°, stepped, rough, with 0.5 to 1mm thick grey silt smear over 0.5mm thick white calcitic veinlet, open.	Strong locally very strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.50								
	100 (92) 50	8				9.50 - 9.55 Joint, dipping 45°, undulating, tight. 9.75 - 9.85 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick grey silt smear over 0.5mm thick white calcitic veinlet, open.		
10.10						9.80 - 10.10 Joint, vertical dip, stepped, rough, clean, open as drilling induced?		
	100 (91) 40	8				10.20 - 10.30 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick grey silt smear, open. 10.85 - 11.15 Joint, subvertical dip, stepped, rough, with 0.5 to 3mm thick dark grey silt smear, open to moderately wide.		
21.07 11.70		15	26.55		11.70	11.15m to 11.20m: dark grey silt. 11.25m to 11.55m: medium strong. 11.30 - 11.70 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open.		

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
21/07/25	16.00	11.70					2.60					BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	18-07-25 18-07-25	37.74	E 522,798.6 N 823,671.1

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			37.49		0.25	0.00 - 4.00 : overburden.		ASPHALT.	
								POSSIBLE MADE GROUND: Subangular fine to coarse grey limestone GRAVEL.	
	50 -								
2.00	-				(3.25)				
	7 -								
3.50	-		34.24		3.50				
			33.94		3.80			Dark brown slightly sandy organic SILT. Sand is fine.	
			33.74		4.00			Subrounded fine to coarse assorted grey limestone GRAVEL with a little brown silt.	
	100 (15)					4.00 - 5.80 Non-intact as possible weathered rock. No recovery as washout of fines during drilling. No record of cavity.		Possible weathered rock. Strong and very strong thinly laminated grey fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with a little grey slightly sandy silt. Sand is medium to coarse.	
5.00	-	NI			(1.80)				
	87 (54)		31.94		5.80				
	37					5.80 - 11.70 DISC, medium spaced, locally closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 2mm thick grey silt smear.		Very strong locally strong thinly interlaminated dark grey and grey fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets.	
6.50		7							
	100 (90) 69					7.10 - 7.19 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open as drilling induced? 7.55 - 7.60 Joint, dipping 45°, stepped, rough, with 0.5 to 2mm thick dark grey silt smear, open.			
8.00		2							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1.1	Water	100
1.1	11.7	Water	0

GENERAL REMARKS

BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	18-07-25 18-07-25	37.74	E 522,798.6 N 823,671.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (97) 84	5			(5.90)	8.30 - 8.35 Joint, dipping 45°, stepped, rough, with 0.5 to 2mm thick dark grey silt smear, open. 8.70 - 8.85 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open as drilling induced?		Very strong locally strong thinly interlaminated dark grey and grey fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets. *(continued)* 8.90m: weak.	
9.50									
	100 (97) 96	3							
10.10						10.15 - 10.35 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown silt smear, open.			
	100 (97) 85	5							
		3							
18.07 11.70			26.04		11.70				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
18/07/25	17.30	11.70										BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-07-25 17-07-25	37.46	E 522,811.9 N 823,649.5

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			37.26		0.20	0.00 - 5.00 : overburden.	ASPHALT.	
	20 -				(1.80)		POSSIBLE MADE GROUND: Subangular fine to medium assorted grey limestone GRAVEL.	
2.00			35.46		2.00			
	-				(1.50)		No recovery. Drillers Comment: Clay.	
3.50			33.96		3.50			
	27 -				(1.50)		Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with a little brown silt.	
5.00			32.46		5.00			
	100 (80) 51	NI 4				5.00 - 5.30 Non-intact as angular medium to coarse gravel sized clasts. 5.30 - 12.50 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 2mm thick dark grey silt smear. 5.60 - 5.70 Joint, vertical dip, stepped, rough, clean over 0.5 to 1m thick white calcitic veinlet, open as drilling induced? 6.35 - 6.50 Joint, subvertical dip, stepped, rough, clean over 0.5 to 1m thick white calcitic veinlet, open as drilling induced? 6.80m to 6.85m: possible visible finely disseminated pyrite.	Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets.	
6.50		5						
	100 (97) 85	8						

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1	Water	100
1	12.5	Water	0

GENERAL REMARKS

BH terminated at 12.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M06A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-07-25 17-07-25	37.46	E 522,811.9 N 823,649.5

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
8.10	100 (97) 84	4			(7.50)	8.30m to 8.40m: 20mm wide 30mm deep vug with white calcitic crystal assemblage infill. 8.60 - 8.75 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick brown silt smear, open.		Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets. *(continued)*	
9.50	100 (96) 78	4 2				9.60 - 9.90 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear over 0.5mm thick white calcitic veinlet, open. 10.20 - 10.32 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.			
11.10	100 (97) 94	2							
17.07 12.50		3	24.96		12.50				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
17/07/25	17.30	12.50					2.50					BH terminated at 12.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M07**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	35.45	E 523,390.3 N 822,900.1

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			35.15		0.30	0.00 - 6.70 : overburden.		ASPHALT.	
	30 -							Subangular to angular fine to coarse assorted grey limestone GRAVEL with some brownish grey gravelly silt. Gravel is subangular fine and medium of assorted grey limestone.	
2.00									
	60 -								
3.50					(6.40)				
	20 -								
5.00		5.00 (39)				5.00m: dense.			
	20 -								
6.50			28.75		6.70				
	100 (71) 55	0				6.70 - 11.70 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 4mm thick dark grey silt smear. 7.15 - 7.50 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear and minor surficial dark orange iron stain, open.		Very strong locally strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets and a little visible finely disseminated pyrite.	
		8							
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1	Water	100
1	11.7	Water	0

GENERAL REMARKS

BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M07**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	35.45	E 523,390.3 N 822,900.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS				STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	DESCRIPTION Main	Instrument/ Backfill
	100 (95) 83	5			(5.00)		Very strong locally strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets and a little visible finely disseminated pyrite. *(continued)*	
9.50						9.45 - 9.50 Joint, dipping 45°, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.		
10.10	100 (99) 98	4						
	100 (98) 97	1						
22.07 11.70		1	23.75		11.70			

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
22/07/25	17.30	11.70					3.40					BH terminated at 11.70m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M08**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	32.77	E 523,735.8 N 821,999.9

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			32.62		0.15	0.00 - 6.30 : overburden.		ASPHALT.	
	45 -							MADE GROUND: Subangular and angular fine to coarse assorted grey limestone GRAVEL with a little grey silt and fine to coarse gravel sized clasts of tarmac.	
2.00					(3.35)				
	7 -								
3.50			29.27		3.50				
			29.17		3.60			ASPHALT.	
	67 -							Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with cobbles. Cobbles are of assorted grey limestone.	
5.00					(2.70)				
	67 -								
6.20		6.20 (25/75mm)	26.47		6.30				
	100 (93) 75	7				6.30 - 11.70 DISC, very closely and closely spaced, locally medium spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 5mm thick dark grey silt smear.		Very strong locally strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE.	
7.80		7							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1.3	Water	100
1.3	11.7	Water	0

GENERAL REMARKS

BH terminated at 11.60m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M08**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	32.77	E 523,735.8 N 821,999.9

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (91) 62	7			(5.40)	8.30 - 8.60 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick dark grey silt smear, open.		Very strong locally strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.40									
	100 (96) 32	16							
10.10						9.95 - 10.00 Joint, vertical dip, undulating, rough, with 0.5 to 10mm wide aperture. 9.95 - 10.25 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick pinkish brown silt smear, open.			
	100 (95) 53	8				10.05m to 10.10m: visible finely disseminated pyrite globules.			
23.07 11.70		10	21.07		11.70	11.05m to 11.10m: visible finely disseminated pyrite globules. 11.15 - 11.60 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear and a visible finely disseminated pyrite globules, open.			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
23/07/25	17.30	11.70					3.40

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 11.60m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M09**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	31.37	E 523,803.9 N 821,566.6

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	DESCRIPTION Main	Instrument/ Backfill
0.00						0.00 - 5.50 : overburden.	MADE GROUND: Subangular to angular fine to coarse assorted grey limestone GRAVEL with cobbles and coarse gravel and cobble sized clasts of concrete. Cobbles are of assorted grey limestone.	
	40 -							
2.00								
	13 -				(5.50)			
3.50								
	33 -							
5.00								
			25.87		5.50			
	100 (60) 40	6				5.50 - 11.60 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 4mm thick dark grey silt smear.	Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE.	
6.40		8				6.30m to 6.35m: with visible finely disseminated pyrite globules.		
	100 (95) 88	6						
8.00								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	2.4	Water	100
2.4	11.6	Water	

GENERAL REMARKS

BH terminated at 11.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M09**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	31.37	E 523,803.9 N 821,566.6

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
	100 (97) 96	6			(6.10)	7.95m to 8.00m: medium strong with a little grey silt.	Very strong locally strong and medium strong thinly interlaminated dark grey and grey bioclastic fine and medium grained LIMESTONE. *(continued)* 8.10m: weak.	
9.50								
	100 (99) 96	5						
10.10								
	100 (97) 95	7						
24.07 11.60		2	19.77		11.60			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
24/07/25	17.30	11.60					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 11.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M10**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	31.36	E 523,842.2 N 821,321.1

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 5.20 : overburden.		Grass over subangular fine to coarse assorted light and dark grey limestone GRAVEL with a little dark brown silt.	
	15 - -								
2.00									
	13 - -				(5.20)				
3.50									
	20 - -								
5.00			26.16		5.20				
	87 (67) 45	6				5.20 - 11.60 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 5mm thick dark grey silt smear.		Very strong locally strong and medium strong thinly interlaminated dark grey and grey slightly bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets.	
6.50		3							
	100 (98) 97	3							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	0.3	Water	100
0.3	11.6	Water	0

GENERAL REMARKS

BH terminated at 11.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M10**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	31.36	E 523,842.2 N 821,321.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
8.10								Very strong locally strong and medium strong thinly interlaminated dark grey and grey slightly bioclastic fine and medium grained LIMESTONE with subvertical and vertical white calcitic veinlets. *(continued)*	
	100 (97) 96	3			(6.40)				
9.50									
	100 (98) 97	3							
10.10									
	100 (90) 84	3							
25.07 11.60		4	19.76		11.60	11.40m to 11.45m: with visible finely disseminated pyrite. 11.40 - 11.45 Joint, vertical dip, stepped, rough, clean, open as drilling induced?			

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
25/07/25	17.30	11.60										BH terminated at 11.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M13**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	25.33	E 526,794.0 N 820,595.6

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00	71 -		25.23		0.10	0.00 - 0.70 : overburden.	ASPHALT.	
	-				(0.60)		MADE GROUND: Subangular to angular fine and medium assorted grey limestone GRAVEL with a little brown clay.	
0.70			24.63		0.70			
	100 (31) -	NI			(1.60)	0.70 - 1.60 Non-intact as weathered rock.	Weathered rock. Very strong and medium strong thinly bedded dark grey fine and medium grained limestone recovered as angular fine to coarse gravel sized clasts.	
2.10			23.03		2.30	1.60 - 2.30 DISC, apparently very closely and extremely closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 1mm thick brown clay smear.		
	100 (97) 62	6				2.30 - 8.50 DISC, very closely spaced to 2.30m, then medium spaced, locally closely spaced, dipping 8 to 10°, stepped, smooth, with 0.5 to 1mm thick dark grey silt smear. 2.35 - 2.60 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear, open. 3.15 - 3.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick white calcitic veinlet, open.	Very strong locally strong and weak thinly interbedded dark grey and grey fine and medium grained LIMESTONE.	
3.60		4						
	100 (96) 94	5				4.35m to 4.40m: medium strong fissile.		
5.10					(6.20)			
	100 (91) 77	3						
6.60		8						
7.00	100 (90) 73							
	100 (97) 96	4						

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.5	Water	100

GENERAL REMARKS

BH terminated at 8.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M13**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	25.33	E 526,794.0 N 820,595.6

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
10.07 8.50		2	16.83		8.50			Very strong locally strong and weak thinly interbedded dark grey and grey fine and medium grained LIMESTONE. *(continued)*	

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
10/07/25	17.30	8.50					0.70					BH terminated at 8.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M14**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-07-25 15-07-25	29.92	E 528,405.2 N 818,909.2

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			29.79		0.13	Core run - 0.00m to 2.00m: 1 No grey quartz mica schist boulder 210mm in length 0.00 - 5.80 : overburden.	ASPHALT.	
	55 -				(1.87)		MADE GROUND: Subangular fine and medium assorted grey limestone GRAVEL with boulder.	
2.00		2.00 (46)	27.92		2.00			
	20 -						Very stiff grey slightly gravelly sandy SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine to coarse assorted grey limestone. Cobbles are of assorted grey limestone.	
3.50		3.50 (42)			(3.80)			
	73 -							
5.00		5.00 (50)						
	100 (44) -		24.12		5.80	5.80 - 12.50 DISC, medium spaced, locally very closely and closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 4mm thick dark grey silt smear. 5.81 - 7.10 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.	Very strong locally strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE.	
6.50		10						
	100 (98) 41							
		5						

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	1.1	Water	100
1.1	12.5	Water	

GENERAL REMARKS

BH terminated at 12.0m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M14**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-07-25 15-07-25	29.92	E 528,405.2 N 818,909.2

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
8.10	100 (96) 94	6			(6.70)			Very strong locally strong thinly interbedded grey and dark grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
9.50	100 (97) 96	5 4					9.50m to 9.60m: strong black silty fine grained.		
11.00	100 (98) 97	3							
15.07 12.50		1	17.42		12.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
15/07/25	17.30	12.50					1.10

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.0m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M15**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	01-05-25 02-05-25	24.86	E 528,627.3 N 818,645.6

Engineer	Sheet	Status
Atkins Realis	1 of 3	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 6.30 : overburden.		Open hole drilling. No recovery.	
	- - -				(4.50)				
4.50			20.36		4.50				
	100 - -							Subrounded to subangular fine to coarse assorted brown sandstone and assorted grey limestone GRAVEL with cobbles. Cobbles are of assorted grey limestone.	
5.00					(1.80)				
	38 - -								
6.30			18.56		6.30				
		4				6.30 - 18.50 DISC, medium spaced, locally closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 10mm thick dark grey silt smear.		Extremely strong locally very strong thinly interbedded dark grey and grey bioclastic fine and coarse grained LIMESTONE with subvertical and randomly orientated white calcitic veinlets.	
	100 (96) 91								
7.80		3							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			4.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	18.5	Water	100

GENERAL REMARKS

BH terminated at 18.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M15**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	01-05-25 02-05-25	24.86	E 528,627.3 N 818,645.6

Engineer	Sheet	Status
Atkins Realis	2 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (93) 83	6						Extremely strong locally very strong thinly interbedded dark grey and grey bioclastic fine and coarse grained LIMESTONE with subvertical and randomly orientated white calcitic veinlets. *(continued)*	
9.30							8.90m to 8.95m: dark blackish grey silt.		
		5							
	100 (98) 91								
		4							
01.05 10.90 02.05									
	100 (95) 81	5							
12.40					(12.20)				
		4							
	100 (96) 80								
		3					13.40 - 13.55 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open.		
13.90									
	100 (94) 85	4							
15.60									
		3							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
01/05/25	17.30	10.90					
02/05/25	08.00	10.90					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 18.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M15**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	01-05-25 02-05-25	24.86	E 528,627.3 N 818,645.6

Engineer	Sheet	Status
Atkins Realis	3 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (97) 96	3						Extremely strong locally very strong thinly interbedded dark grey and grey bioclastic fine and coarse grained LIMESTONE with subvertical and randomly orientated white calcitic veinlets. *(continued)*	
17.00									
	100 (97) 96	4							
02.05 18.50		2	6.36		18.50				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
02/05/25	17.30	18.50										BH terminated at 18.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M16**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-04-25 01-05-25	24.73	E 528,788.4 N 818,605.9

Engineer	Sheet	Status
Atkins Realis	1 of 3	FINAL

RUN DETAILS				STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail / Main	Instrument/ Backfill
0.00						0.00 - 10.80 : overburden. Open hole drilling. No recovery.	
	- - -				(6.90)		
6.90			17.83		6.90		
	88 - -		17.13		(0.70) 7.60	Subrounded fine and medium assorted metamorphic granite and assorted grey limestone GRAVEL.	
7.80							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	20	Water	100

GENERAL REMARKS

BH terminated at 20.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M16**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-04-25 01-05-25	24.73	E 528,788.4 N 818,605.9

Engineer	Sheet	Status
Atkins Realis	2 of 3	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	53 - -	8.50 (25/75mm)						Subangular fine to coarse rare pink granite assorted metamorphic and assorted grey limestone GRAVEL with cobbles. Cobbles are of assorted grey limestone. *(continued)*	
9.30					(3.20)				
	23 - -	10.00 (50/225mm)							
10.60			13.93		10.80				
	80 (70) 66	0				10.80 - 20.00 DISC, medium spaced, locally closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 3mm thick dark grey silt smear.		Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE.	
11.10									
	100 (88) 62	8				11.60 - 11.70 Joint, dipping 60°, stepped, rough, with 0.5 to 2mm thick grey silt smear, open. 11.75 - 11.95 Joint, subvertical dip, stepped, smooth, with 0.5 to 2mm thick grey silt smear, open.			
12.60		8							
	100 (97) 92	3							
14.10						14.10 - 14.40 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open. 14.40 - 14.60 Joint, subvertical dip, undulating, open as drilling induced?			
	100 (87) 65	5							
15.60		6			(9.20)				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			9.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 20.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M16**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-04-25 01-05-25	24.73	E 528,788.4 N 818,605.9

Engineer	Sheet	Status
Atkins Realis	3 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (82) 51	9				16.30 - 16.60 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open. 16.80 - 17.10 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick grey silt smear, open.		Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE. *(continued)*	
17.00									
	100 (97) 96	3							
18.50		2							
	100 (98) 97	3							
30.04 01.05 20.00			4.73		20.00				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
30/04/25	17.30	20.00					
01/05/25	08.00	20.00					
01/05/25	10.00	20.00					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 20.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M19**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-06-25 16-06-25	73.52	E 533,065.9 N 818,370.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			73.28		0.24	0.00 - 7.50 : overburden.		ASPHALT.	
	20 -							Subrounded to subangular fine to coarse pink granite and assorted grey limestone GRAVEL with cobbles and a little brown silt. Cobbles are of assorted grey limestone.	
2.00	-	2.00 (22)				2.00m: medium dense.			
	20 -								
3.50	-	3.50 (45)			(7.26)	3.50m: becoming dense.			
	13 -								
5.00	-	5.00 (25/75mm)							
	70 -								
6.00	-								
	27 -								
16.06 7.50	-		66.02		7.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
16/06/25	17.30	7.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	2	Water	100
2	7.5	Water	0

GENERAL REMARKS

BH terminated at 7.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-04-25 28-04-25	78.95	E 533,432.5 N 818,482.5

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 12.50 : overburden.		Open hole drilling. No recovery.	
	-				(6.00)				
6.00			72.95		6.00				
	100				(0.60)			Pink granite and grey limestone COBBLES.	
	-		72.35		6.60				
7.20								Very stiff light brown slightly gravelly sandy SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine to coarse of pink granite and assorted grey limestone. Cobbles are of pink granite and assorted grey limestone.	
	100								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			6.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.5	Water	100

GENERAL REMARKS

BH terminated at 12.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	28-04-25 28-04-25	78.95	E 533,432.5 N 818,482.5

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	-	8.00 (25/75mm)			(3.30)			Very stiff light brown slightly gravelly sandy SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine to coarse of pink granite and assorted grey limestone. Cobbles are of pink granite and assorted grey limestone. *(continued)*	
8.70									
	100 - -								
10.00			69.05		9.90				
		10.00 (44/150mm)						Stiff brown slightly gravelly SILT with cobbles. Gravel is subrounded to subangular fine to coarse of various lithologies. Cobbles are of assorted grey limestone.	
	90 - -								
11.00					(2.60)				
	87 - -								
28.04 12.50			66.45		12.50				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
28/04/25	16.00	12.50										BH terminated at 12.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-06-25 17-06-25	78.99	E 533,409.0 N 818,484.9

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00	- - -				(2.00)	0.00 - 8.10 : overburden.	Open hole drilling. No recovery.	
2.00			76.99		2.00			
	27 - -						Medium dense brown silty fine and medium SAND.	
3.50		3.50 (15)			(3.00)			
	13 - -							
5.00		5.00 (22)	73.99		5.00		Very stiff light brown slightly gravelly sandy SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine and medium of assorted granite and assorted grey limestone. Cobbles are of grey limestone.	
	20 - -							
6.50		6.50 (46/150mm)			(3.10)			
	82 - -							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			2.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.1	Water	100

GENERAL REMARKS

BH terminated at 8.10m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M20A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	17-06-25 17-06-25	78.99	E 533,409.0 N 818,484.9

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
17.06 8.10		8.10 (48/150mm)	70.89		8.10				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
17/06/25	17.30	8.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 8.10m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M21**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-04-25 24-04-25	103.28	E 534,050.2 N 818,446.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			103.18		0.10	0.00 - 8.00 : overburden.		Angular medium dark grey limestone GRAVEL.	
	20 -				(1.90)			Subrounded to subangular fine to coarse assorted brown sandstone and assorted grey limestone GRAVEL.	
2.00		2.00 (23)	101.28		2.00			Medium dense light brown slightly silty slightly sandy subangular fine to coarse brown sandstone and assorted grey limestone GRAVEL with cobbles. Sand is fine. Cobbles are of assorted grey limestone.	
	20 -	3.00 (31)				3.00m: becoming dense.			
3.50									
	20 -	4.00 (47)							
5.00		5.00 (25/75mm)			(6.00)				
	20 -								
6.50		6.50 (46/225mm)							
	13 -								
24.04 8.00			95.28		8.00				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
24/04/25	14.00	8.00	3.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	0

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M22**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-04-25 24-04-25	127.98	E 534,573.6 N 818,327.8

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 15.50 : overburden.		Open hole drilling. No recovery.	
	-				(5.00)				
5.00			122.98		5.00				
	47							Very stiff light orangish brown slightly gravelly sandy SILT with cobbles and boulder. Sand is fine and medium. Gravel is subrounded to subangular fine to coarse of pink granite reddish brown sandstone and assorted brown sandstone. Cobbles are of pink granite and assorted brown sandstone.	
6.50		6.50 (50)							
	47								
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15.5	Water	0

GENERAL REMARKS

BH terminated at 15.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M22**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-04-25 24-04-25	127.98	E 534,573.6 N 818,327.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
		8.00 (42/150mm)						Very stiff light orangish brown slightly gravelly sandy SILT with cobbles and boulder. Sand is fine and medium. Gravel is subrounded to subangular fine to coarse of pink granite reddish brown sandstone and assorted brown sandstone. Cobbles are of pink granite and assorted brown sandstone. *(continued)*	
	53 - -								
9.50		9.50 (25/75mm)							
	47 - -				(10.50)				
11.00		11.00 (50)							
	33 - -								
12.50		12.50 (41/150mm)							
	47 - -								
14.00		14.00 (25/75mm)				Core run - 14.00m to 15.50m: 1 No grey granite boulder 300mm in length.			
	33 - -								
24.04 15.50			112.48		15.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
24/04/25	17.30	15.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M23**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-04-25 23-04-25	124.54	E 534,641.5 N 818,313.0

Engineer	Sheet	Status
Atkins Realis	1 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 17.00 : overburden.		Open hole drilling. No recovery.	
	- - -				(4.80)				
4.80			119.74		4.80			Slightly gravelly grey and white BOULDERS with cobbles. Gravel is subangular fine to coarse of brown sandstone and assorted pink granite. Cobbles are grey limestone and grey and white granite.	
	29 - -								
6.50		6.50 (25/75mm)							
	47 - -				(5.70)				
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	17	Water	100

GENERAL REMARKS

BH terminated at 17.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M23**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-04-25 23-04-25	124.54	E 534,641.5 N 818,313.0

Engineer	Sheet	Status
Atkins Realis	2 of 3	FINAL

RUN DETAILS					STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
		8.00 (50/225mm)				Core run - 8.00m to 9.50m: 1 No pink granite boulder 800mm in length.	Slightly gravelly grey and white BOULDERS with cobbles. Gravel is subangular fine to coarse of brown sandstone and assorted pink granite. Cobbles are grey limestone and grey and white granite. *(continued)*	
	40 - -							
9.50		9.50 (25/75mm)						
	33 - -		114.04		10.50			
							Very stiff light brown slightly sandy gravelly SILT with cobbles and boulder. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of assorted grey limestone. Cobbles are of assorted grey limestone.	
11.00		11.00 (39/150mm)						
	33 - -							
12.50		12.50 (25/75mm)						
	40 - -				(6.50)			
22.04 14.00 23.04		14.00 (67/225mm)						
	60 - -							
15.00								
	44 - -							
15.90								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
22/04/25	17.30	14.00					
23/04/25	08.00	14.00					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 17.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M23**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-04-25 23-04-25	124.54	E 534,641.5 N 818,313.0

Engineer	Sheet	Status
Atkins Realis	3 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	DESCRIPTION Main	Instrument/ Backfill
	63 - -	15.90 (25/75mm)				Core run - 15.90m to 17.00m: 1 No grey limestone boulder 220mm in length.	Very stiff light brown slightly sandy gravelly SILT with cobbles and boulder. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of assorted grey limestone. Cobbles are of assorted grey limestone. *(continued)*	
23.04 17.00			107.54		17.00			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
23/04/25	14.00	17.00					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 17.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M26**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-07-25 08-07-25	182.32	E 537,842.1 N 816,258.2

Engineer	Sheet	Status
Atkins Realis	1 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			182.02		0.30	0.00 - 11.70 : overburden.		ASPHALT.	
	30 - -							Subrounded to subangular fine to coarse limestone assorted granite and assorted metamorphic GRAVEL with a little grey silt.	
2.00									
	13 - -								
3.50		3.50 (50/225mm)							
	27 - -								
5.00		5.00 (49/225mm)							
	40 - -				(11.40)				
6.50		6.50 (25/75mm)							
	27 - -								
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	18.6	Water	100

GENERAL REMARKS

BH terminated at 18.60m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M26**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-07-25 08-07-25	182.32	E 537,842.1 N 816,258.2

Engineer	Sheet	Status
Atkins Realis	2 of 3	FINAL

RUN DETAILS						STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities	Detail	Main	Instrument/ Backfill
		8.00 (50/225mm)						Subrounded to subangular fine to coarse limestone assorted granite and assorted metamorphic GRAVEL with a little grey silt. *(continued)*	
	27 -								
9.50	-	9.50 (48)							
	44 -								
10.40	-	10.40 (25/75mm)							
	100 (20) 13		170.62		11.70				
12.00						11.70 - 13.00 DISC, medium spaced, locally closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 2mm thick grey silt smear.		Medium strong locally strong massive light creamish brown coarse grained METASANDSTONE.	
	100 (93) 78				(1.30)				
12.60		6	169.32		13.00				
	100 (55) 23					13.00 - 17.00 Non-intact as weathered rock.		Weathered rock. Weak locally medium strong thinly foliated light brownish grey fine and medium grained QUARTZ MICA SCHIST recovered as angular fine to coarse gravel and cobbles sized clasts with a little white silt and surficial orangish brown iron stain and powder.	
14.20									
	100 (32) -				(4.00)				
		NI							
15.60									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 18.60m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M26**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	08-07-25 08-07-25	182.32	E 537,842.1 N 816,258.2

Engineer	Sheet	Status
Atkins Realis	3 of 3	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (16) -		165.32		17.00				
17.20						17.00 - 18.40 Non-intact as weathered rock.		Weathered rock. Strong locally medium strong thinly foliated light grey fine and medium grained QUARTZITE recovered as angular fine to coarse gravel and cobbles sized clasts with a little white silt.	
	100 (29) -	NI			(1.40)				
			163.92		18.40				
08.07 18.60			163.72		18.60			Weathered rock. Weak and medium strong thinly foliated grey fine and medium grained QUARTZ MICA SCHIST recovered as angular fine to coarse gravel sized clasts with a little white silt.	

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
08/07/25	16.00	18.60					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 18.60m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M27**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	166.15	E 538,608.9 N 815,972.4

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			166.00		0.15	0.00 - 7.70 : overburden.	ASPHALT.	
	10 - -						Subangular and flat fine to coarse granite and assorted metamorphic GRAVEL with boulder.	
2.00		2.00 (30)						
	7 - -							
3.50		3.50 (50/225mm)			(7.55)	Core run - 3.50m to 5.50m: 1 No grey quartz mica schist boulder 330mm in length.		
	40 - -							
5.00		5.00 (50/225mm)						
	33 - -							
6.50		6.50 (28)						
	17 - -							
7.70		7.70 (25/75mm)	158.45		7.70	7.70 - 12.40 DISC, medium spaced, locally very closely spaced, dipping 14 to		

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.4	Water	100

GENERAL REMARKS

BH terminated at 12.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DC	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M27**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	166.15	E 538,608.9 N 815,972.4

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	DESCRIPTION Main	Instrument/ Backfill
		3				16°, stepped, rough, with 0.5 to 2mm thick grey micaceous silt smear and minor surficial orangish brown iron stain.	Very strong locally medium strong thinly foliated light grey fine to coarse grained QUARTZ MICA SCHIST. *(continued)*	
	100 (85) 79	2						
9.30								
		5						
	100 (89) 60				(4.70)	10.15 - 10.30 Joint, subvertical dip, stepped, rough, with a little mica and surficial orangish brown iron stain, open.		
		6						
10.90						10.60m to 10.65m: white quartz vein.		
	100 (90) 89	1						
09.07 12.40		1	153.75		12.40			

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
09/07/25	17.30	12.40										BH terminated at 12.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DC	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M28**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-06-25 11-06-25	146.63	E 539,100.6 N 815,902.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			146.55		0.08	0.00 - 8.00 : overburden.		ASPHALT.	
			146.43		0.20			ASPHALT.	
			146.23		0.40			Subangular and angular fine to coarse quartz mica schist and assorted grey limestone GRAVEL.	
	25							Light brown slightly silty fine and medium SAND.	
2.00		2.00 (36)			(3.30)	2.00m: dense.			
	27								
3.50		3.50 (42)	142.93		3.70				
								Dense subangular fine to coarse assorted metamorphic GRAVEL with boulder and a little brown silt.	
	20								
5.00		5.00 (50)							
	40				(4.30)				
6.50		6.50 (50/75mm)				Core run - 6.50m to 8.00m: 1 No grey quartzite boulder 400mm in length and 1 No grey quartzite boulder 340mm in length.			
	47								
T1.06 8.00			138.63		8.00				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
11/06/25	17.30	8.00	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	100

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT COMBINED.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M29**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-06-25 11-06-25	144.27	E 539,171.8 N 815,912.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			144.21		0.06	0.00 - 8.00 : overburden.		ASPHALT.	
	20 -							Subangular and angular fine to coarse quartz mica schist and quartzite GRAVEL with a little brown clay.	
	-				(1.94)				
2.00			142.27		2.00				
		2.00 (36)						Dense brown slightly silty slightly gravelly fine and medium SAND with cobbles. Gravel is angular to subrounded fine to coarse of grey limestone pink granite and quartz mica schist. Cobbles are of grey limestone and quartz mica schist.	
	13 -								
	-				(1.80)				
3.50									
		3.50 (41)	140.47		3.80				
								Subangular and angular fine to coarse quartz mica schist and quartzite GRAVEL with a little brown clay.	
	27 -								
	-								
5.00									
		5.00 (25/75mm)							
	47 -								
	-				(4.20)				
6.50									
		6.50 (47/150mm)							
	27 -								
	-								
T1.06 8.00			136.27		8.00				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
11/06/25	13.00	8.00	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	100

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M30**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-06-25 10-06-25	142.35	E 539,216.3 N 815,895.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			142.20		0.15	0.00 - 8.00 : overburden.	ASPHALT.	
							Light orangish brown slightly silty fine and medium SAND.	
	25 -							
2.00	-	2.00 (28)				2.00m: medium dense.		
	20 -				(4.85)			
3.50	-	3.50 (40)				3.50m: dense.		
	27 -							
5.00	-	5.00 (50)	137.35		5.00		Subrounded to subangular fine to coarse assorted metamorphic and granite GRAVEL with cobbles and boulders. Cobbles are of grey limestone.	
	27 -							
6.50	-	6.50 (44/150mm)			(3.00)	Core run - 6.50m to 8.00m: 1 No grey quartz mica schist boulder 290mm in length. 1 No grey limestone boulder 220mm in length.		
	60 -							
10.06 8.00	-		134.35		8.00			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
10/06/25	13.00	8.00	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	100

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M31**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-06-25 10-06-25	146.97	E 539,253.2 N 815,873.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
0.00			146.81		0.16	0.00 - 6.50 : overburden.	ASPHALT.	
	76 (25) -						Subangular fine to coarse assorted granite limestone and quartz mica schist GRAVEL with cobbles. Cobbles are of granite.	
2.00		2.00 (21)				2.00m: medium dense.		
	100 (20) -				(6.34)			
3.50		3.50 (38)				3.50m: dense.		
	100 (27) -							
5.00		5.00 (25/75mm)						
	100 (27) -							
10.06 6.50		6.50 (38)	140.47		6.50			

Drilling Progress and Water Observations							
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
10/06/25	17.30	6.50	1.00	96			

Rotary Flush			
From (m)	To (m)	Type	Return (%)
0	6.5	Water	100

GENERAL REMARKS

BH terminated at 6.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M32**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	137.85	E 539,483.9 N 815,739.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS				STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main
0.00	25 - -				(3.50)	0.00 - 8.00 : overburden.	Subrounded to subangular fine to coarse assorted quartz mica schist GRAVEL with cobbles. Cobbles are of quartz mica schist.
2.00	20 - -	2.00 (33)				2.00m: dense.	
3.50	27 - -	3.50 (25/75mm)	134.35		(1.70)		Brown slightly silty slightly gravelly micaceous fine and medium SAND. Gravel is subangular fine to coarse of assorted metamorphic clasts.
5.00	27 - -	5.00 (44)	132.65		(2.80)		Subrounded to subangular fine to coarse grey limestone and assorted metamorphic GRAVEL.
6.50	27 - -	6.50 (25/75mm)					
09.06 8.00			129.85		8.00		

Instrument/ Backfill

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
09/06/25	17.30	8.00	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	100

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M33**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	141.00	E 540,529.2 N 814,855.1

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			140.87		0.13	0.00 - 8.20 : overburden.		ASPHALT.	
			140.70		0.30			MADE GROUND: Subangular and angular fine and medium dark grey limestone GRAVEL.	
	25 -							Grey slightly silty sandy subrounded to subangular fine to coarse quartz mica schist and assorted grey limestone GRAVEL. Sand is fine.	
2.00		2.00 (22)				2.00m: medium dense.			
	20 -								
3.50		3.50 (30)				3.50m: becoming dense.			
	27 -				(7.90)				
5.00		5.00 (39)							
	33 -								
6.50		6.50 (50/150mm)							
	29 -								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.2	Water	100

GENERAL REMARKS

BH terminated at 8.20m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M33**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	141.00	E 540,529.2 N 814,855.1

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
05.06 8.20			132.80		8.20				

Drilling Progress and Water Observations							
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
05/06/25	17.30	8.20					

Rotary Flush			
From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 8.20m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M34**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-06-25 03-06-25	140.95	E 540,486.2 N 814,638.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00						Core run - 0.00m to 2.00m: 1 No dark grey quartzite boulder 320mm in length. 0.00 - 3.50 : overburden.	Angular to subangular fine and medium assorted metamorphic and quartz GRAVEL with cobbles and boulders. Cobbles are of assorted metamorphic clasts.	
	30 -							
2.00		2.00 (47/150mm)			(3.50)			
	47 -							
3.50		3.50 (50/150mm)	137.45		3.50	3.50 - 7.50 Non-intact as possible weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Possible weathered rock. Very strong to weak thinly foliated grey fine and medium grained QUARTZ MICA SCHIST with anastomosing white quartz veinlets recovered as angular fine to coarse gravel and cobble sized clasts with a little brown clay and minor surficial orange and orangish brown iron stain.	
	80 (78) -							
4.50								
	67 -	5.00 (50/150mm)				from 4.60m: recovered as angular fine and medium gravel sized clasts with much grey micaceous silt as possible residual rock.		
		NR			(4.00)			
6.00								
	87 -							
03.06 7.50			133.45		7.50			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
03/06/25	17.30	7.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	7.5	Water	100

GENERAL REMARKS

BH terminated at 7.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M35**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-06-25 04-06-25	140.11	E 540,421.6 N 814,571.9

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
0.00			140.01		0.10	0.00 - 6.70 : overburden.	ASPHALT.	
							Subangular fine and medium assorted grey limestone GRAVEL.	
	25 - -							
2.00		2.00 (43)				2.00m: dense.		
	25 - -							
3.20		3.20 (50/150mm)			(6.30)	Core run - 3.20m to 4.70m: 1 No grey quartz mica schist boulder 200mm in length.		
	27 - -							
4.70		4.70 (50)				Core runs - 4.70m to 7.00m: 1 No greyish green quartz mica schist boulder 420mm in length.		
	33 - -							
6.20			133.71		6.40			
	88 (30) -	6.50 (50/150mm)	133.41		6.70		Subrounded to subangular fine to coarse assorted green and grey quartz mica schist GRAVEL with cobbles and boulders.	
7.00						6.70 - 8.40 Non-intact as possible weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Weathered rock. Extremely strong locally medium strong and weak thinly foliated light grey fine and medium grained QUARTZ MICA SCHIST recovered as angular fine to coarse gravel and cobble sized clasts with a little grey micaceous silt.	
	92 (48) 23	NR			(1.70)			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.4	Water	100

GENERAL REMARKS

BH terminated at 8.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M35**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-06-25 04-06-25	140.11	E 540,421.6 N 814,571.9

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
04.06 8.40			131.71		8.40				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
04/06/25	17.30	8.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 8.40m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M36**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-05-25 30-05-25	139.12	E 540,331.5 N 814,494.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			139.02		0.10	0.00 - 1.20 : overburden.	TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine and medium.	
	- - -				(1.10)		Subrounded to subangular fine to coarse rare grey limestone and assorted green and grey quartz mica schist GRAVEL with cobbles and a little brown silt. Cobbles are of grey quartz mica schist.	
1.20			137.92		1.20			
	100 (97) 96	NI				1.20 - 6.10 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 1mm thick brown clay smear.	Very strong locally extremely strong and medium strong thinly foliated grey fine and medium grained QUARTZ MICA SCHIST.	
2.20						1.40m to 1.55m: white quartz vein.		
	100 (95) 71	28				2.00m to 2.20m: white quartz vein.		
3.70		12			(4.90)			
	100 (97) 70	16				3.85 - 4.15 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick brown clay smear and minor surficial orangish brown iron stain and powder, open.		
5.20								
	100 (96) 90	8						
30.05 6.10		1	133.02		6.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
30/05/25	15.00	6.10	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.1	Water	100

GENERAL REMARKS

BH terminated at 6.10m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M37**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-05-25 29-05-25	128.90	E 540,309.3 N 814,288.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS				STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00						0.00 - 8.00 : overburden.	Subrounded to subangular fine to coarse assorted grey limestone and assorted metamorphic GRAVEL with cobbles and a little brown slightly silty fine and medium sand. Cobbles are of assorted grey limestone.	
	25 -							
2.00		2.00 (43/150mm)						
	40 -							
3.50		3.50 (48/150mm)						
	27 -				(8.00)			
5.00		5.00 (39/150mm)						
	33 -							
6.50		6.50 (25/75mm)						
	33 -							
29.05 8.00			120.90		8.00			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
29/05/25	17.30	8.00	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8	Water	100

GENERAL REMARKS

BH terminated at 8.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M38**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	139.29	E 540,148.0 N 815,190.2

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			139.26		0.03	0.00 - 9.50 : overburden.		ASPHALT.	
			139.09		0.20			Angular to subangular fine and medium limestone GRAVEL.	
	25 -							Angular to subangular fine to coarse quartz and quartz mica schist GRAVEL with cobbles. Cobble of quartz mica schist.	
2.00	-	2.00 (37)			(4.80)				
	20 -								
3.50	-	3.50 (43)							
	27 -								
5.00	-		134.29		5.00				
		5.00 (25/75mm)						Firm light brown CLAY.	
	27 -				(1.50)				
6.50	-		132.79		6.50				
		6.50 (25/75mm)				Core run - 6.50m to 8.00m: 1 No grey limestone boulder 230mm in length.		Subangular and angular fine to to coarse quartz and quartz mica schist GRAVEL with boulder.	
	27 -								
8.00	-								

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	9.5	Water	100

GENERAL REMARKS

BH terminated at 9.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M38**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	139.29	E 540,148.0 N 815,190.2

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	87 - -				(3.00)			Subangular and angular fine to to coarse quartz and quartz mica schist GRAVEL with boulder. *(continued)*	
05.06 9.50			129.79		9.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
05/06/25	13.00	9.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 9.50m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M39**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-05-25 21-05-25	42.32	E 520,504.4 N 826,780.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			42.22		0.10	0.00 - 2.20 : overburden.		TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine to medium.	
	45 - -				(2.10)			Very stiff orangish brown slightly sandy gravelly SILT with cobbles. Sand is fine and medium. Gravel is subrounded to subangular fine and medium of assorted grey limestone. Cobbles are of assorted grey limestone.	
2.00			40.12		2.20				
	100 (85) 63	7				2.20 - 6.10 DISC, closely spaced, locally medium spaced to 3.50m, then medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 4mm thick dark grey silt smear. 3.00 - 3.05 Joint, dipping 45°, stepped, rough, clean, open as drilling induced?		Very strong locally strong and medium strong thinly bedded grey fine and medium grained LIMESTONE.	
3.50		4							
	100 (95) 93				(3.90)				
		5							
5.00						5.00m to 6.10m: with subrounded fine and medium gravel sized dark grey fine grained chert nodules.			
	100 (96) 90	5							
21.05 6.10			36.22		6.10				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
21/05/25	17.30	6.10	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.1	Water	100

GENERAL REMARKS

BH terminated at 6.10m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT COMBINED.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M40**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-05-25 22-05-25	42.51	E 520,632.9 N 826,762.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00	58 -				(1.70)	0.00 - 1.70 : overburden.	Subangular fine to coarse assorted grey limestone GRAVEL with a little grey silt.	
1.70			40.81		1.70			
	83 (5) -	2.00 (50/75mm) NR			(1.80)	1.70 - 3.50 Non-intact as possible weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Possible weathered rock. Very strong and strong thinly bedded grey slightly bioclastic fine and medium grained limestone recovered as angular and subangular fine to coarse gravel and cobble sized clasts with some grey silt.	
2.90	67 (18) -							
3.50			39.01		3.50			
	100 (96) 75	11 5			(3.00)	3.50 - 6.50 DISC, medium spaced to 3.70m, very closely spaced to 3.90m, then medium spaced, locally closely spaced, dipping 8 to 10°, stepped, smooth, with 0.5 to 6mm thick dark grey silt smear. 3.90 - 4.50 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open. 5.10 - 5.25 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick grey silt smear, open.	Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE with subvertical white calcitic veinlets.	
5.00								
	100 (96) 94	4						
22.05 6.50		1	36.01		6.50			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
22/05/25	17.30	6.50	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.5	Water	100

GENERAL REMARKS

BH terminated at 6.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT COMBINED.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M41**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-05-25 23-05-25	43.44	E 520,796.9 N 826,739.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00			43.29		0.15	0.00 - 3.00 : overburden.		TOPSOIL: Grass over firm brown slightly sandy SILT. Sand is fine and medium. Angular to subangular fine and coarse assorted grey limestone GRAVEL.	
	76 - -				(2.85)				
2.30									
	67 (23) -		40.44		3.00				
3.20						3.00 - 4.20 Non-intact as possible weathered rock.		Possible weathered rock. Very strong and strong thinly bedded grey slightly bioclastic fine and medium grained limestone recovered as angular and subangular fine to coarse gravel and cobble sized clasts with some grey silt.	
	100 (56) 15	NI			(1.20)				
4.20			39.24		4.20				
	100 (53) 32	4				4.20 - 6.40 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 20mm thick dark grey silt smear.		Very strong locally strong and medium strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE.	
4.80		NI				4.60m to 4.80m: medium strong and weak fissile with some dark grey silt.			
					(2.20)	4.80 - 5.00 Joint, subvertical dip, stepped, smooth, clean, open as drilling induced?			
	100 (89) 66	6				5.20 - 5.25 Joint, dipping 45°, stepped, rough, with 0.5 to 2mm thick dark grey silt smear, open.			
23.05 6.40		1	37.04		6.40	5.40 - 5.70 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick dark grey silt smear, open.			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
23/05/25	17.30	6.40					

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.4	Water	100

GENERAL REMARKS

BH terminated at 6.40m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M42**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	27-05-25 27-05-25	50.06	E 521,543.8 N 826,664.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 0.80 : overburden.		Stiff dark brown slightly sandy SILT. Sand is fine and medium.	
	83 (18) -		49.26		(0.80) 0.80				
		NI			(1.00)	0.80 - 1.80 Non-intact as weathered rock.		Weathered rock. Strong thinly bedded grey bioclastic fine and medium grained limestone recovered as angular fine to coarse gravel and cobble sized clasts with a little brown clay.	
1.80			48.26		1.80				
	100 (91) 58	10				1.80 - 5.70 DISC, closely spaced, locally medium spaced, dipping 8 to 10°, stepped, smooth, with 0.5 to 3mm thick dark grey silt smear.		Strong and very strong thinly bedded grey bioclastic fine and medium grained LIMESTONE.	
3.30						2.95 - 3.45 Joint, vertical dip, stepped, rough, with 0.5 to 2mm thick grey calcitic smear, open.			
		12			(3.90)				
	100 (97) 71								
		6							
4.90									
	100 (96) 94	3				4.90m to 5.70m: with subvertical white calcitic veinlets.			
27.05 5.70			44.36		5.70				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
27/05/25	17.30	5.70	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	5.7	Water	100

GENERAL REMARKS

BH terminated at 5.70m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-M43**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	26-05-25 26-05-25	42.92	E 521,946.0 N 826,671.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00						0.00 - 1.40 : overburden. 0.10m: rootlets absent.	Stiff brown slightly sandy SILT with rootlets. Sand is fine and medium.	
	94 (25) 5				(1.40)			
			41.52		1.40			
						1.40 - 6.10 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, smooth, with 0.5 to 5mm thick brown silt smear.	Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE. 1.80-1.85m: weak.	
2.00		20				2.15 - 2.70 Joint, vertical dip, stepped, smooth, with 0.5 to 1mm thick brown silt smear, open.		
	100 (88) 42	17						
3.50		9				3.20 - 3.45 Joint, vertical dip, undulating, tight, open as drilling induced from 3.20m to 3.25m bgl.		
					(4.70)			
	100 (97) 79					4.00m to 6.10m: with flat and subrounded fine to coarse gravel sized very strong dark grey fine grained chert nodules.		
		7				4.10 - 4.80 Joint, vertical dip, undulating, with 0.5 to 1mm thick brown clay smear infill, tight.		
5.00								
	100 (96) 78	6						
6.05 6.10			36.82		6.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
26/05/25	17.30	6.10	1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6.1	Water	100

GENERAL REMARKS

BH terminated at 6.10m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-06-25 04-06-25	200.71	E 536,376.4 N 817,489.8

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00	- - -				(1.50)	0.00 - 7.10 : overburden.	Open hole drilling. No recovery.	
1.50	100 - -		199.21		1.50	Core run - 1.50m to 2.00m: 1 No grey limestone boulder 480mm in length.	Assorted white and pink granite BOULDERS with a little grey limestone and granite gravel.	
2.00	20 - -							
3.00		3.00 (25/75mm)						
	20 - -							
4.50		4.50 (25/75mm)			(5.60)			
	40 - -							
6.00		6.00 (25/75mm)						
	53 (10) -		193.61		7.10			
7.30		7.30 (25/75mm) 2				7.10 - 15.10 DISC, medium spaced, locally extremely closely and very closely spaced, dipping 45 to 50°, stepped, rough, with 0.5 to 1mm thick brown micaceous silt smear and surficial orangish brown iron stain and powder.	Very strong thinly foliated grey fine to coarse grained QUARTZ MICA SCHIST.	

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15.1	Water	100

GENERAL REMARKS

BH terminated at 15.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R1**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-06-25 04-06-25	200.71	E 536,376.4 N 817,489.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (90) 74	5						Very strong thinly foliated grey fine to coarse grained QUARTZ MICA SCHIST. *(continued)*	
8.90									
	100 (90) 47	5							
10.50		7			(8.00)	10.20 - 10.35 Joint, vertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and much surficial orange and orangish brown iron stain and powder, open. 10.68m to 10.72m: pinkish white quartz vein. 11.15 - 11.30 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and much surficial orange and orangish brown iron stain and powder, open. 11.80 - 11.90 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick dark orangish brown clay smear and much surficial orangish brown iron stain and powder, open. 12.80 - 12.90 Joint, dipping 60°, stepped, rough, with 0.5 to 1mm thick dark orangish brown clay smear and much surficial orangish brown iron stain and powder, open. 13.20 - 13.35 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and much surficial orangish brown and dark orangish brown iron stain and powder, open.		
	100 (96) 74	2							
12.10		5							
	100 (90) 64	4							
13.70		3							
	100 (90) 80								
14.06 15.10			185.61		15.10				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
04/06/25	17.30	15.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	205.87	E 536,391.2 N 817,437.8

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
0.00	- - -				(1.50)	0.00 - 6.00 : overburden.	Open hole drilling. No recovery.	
1.50			204.37		1.50			
	13 - -						Light brown slightly silty fine and medium SAND.	
2.00					(1.50)			
	7 - -							
3.00			202.87		3.00			
	33 - -						Subrounded fine to coarse granite quartz quartzite and quartz mica schist GRAVEL.	
4.50					(3.00)			
	27 - -							
5.10								
	27 (10) -	5.60 (25/75mm)						
			199.87		6.00			
6.20		6.20 (25/75mm)				6.00 - 8.60 Non-intact as possible weathered rock. No recovery as washout of fines during drilling. No record of cavity.	Weathered rock. Strong and medium strong thinly foliated orangish grey garnetiferous fine and medium grained QUARTZ MICA SCHIST recovered as angular fine to coarse gravel and cobble sized clasts with a little orangish brown micaceous silt and surficial orange and orangish brown iron stain and powder.	
	69 (16) -							
7.50					(2.60)			
	100							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	13.6	Water	100

GENERAL REMARKS

BH terminated at 13.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: PMcG	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R2**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	205.87	E 536,391.2 N 817,437.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	(37) -								
8.60			197.27		8.60				
		0				8.60 - 13.60 DISC, medium spaced, locally very closely and closely spaced, dipping 18 to 20 and 80 to 86°, stepped, rough, with 0.5 to 3mm thick grey micaceous silt smear and surficial orange and orangish brown iron stain and powder.		Very strong locally medium strong thinly foliated grey fine to coarse grained QUARTZ MICA SCHIST.	
	100 (80) 78	10							
10.00						10.00 - 10.90 No recovery as washout of fines during drilling. No obvious area of core loss. No record of cavity.			
	67 (13) -	NR							
10.90					(5.00)				
	100 (87) 50	7				10.00m to 10.90m: locally medium strong.			
12.00									
	100 (97) 93	1							
05.06 13.60		0	192.27		13.60				

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
05/06/25	17.30	13.60										BH terminated at 13.60m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R3**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	06-06-25 06-06-25	208.01	E 536,438.5 N 817,431.2

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA		
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main
0.00						0.00 - 2.00 : overburden.	Open hole drilling. No recovery.
	- - -				(1.50)		
1.50			206.51		1.50		
	60 - -				(0.50)		Subrounded and subangular fine to coarse granite and quartz GRAVEL.
2.00		2.00 (25/75mm)	206.01		2.00	2.00 - 12.50 DISC, medium spaced, locally closely and very closely spaced, dipping 10 to 12 and 54 to 56°, stepped, rough, with 0.5 to 1mm thick orangish brown micaceous clay smear and surficial orange and orangish brown iron stain and powder.	Extremely strong locally strong thinly foliated grey fine and medium grained QUARTZ MICA SCHIST.
	100 (85) 63	4					
3.60		3					
	100 (88) 78	3					
5.20							
	100 (95) 80	4					
6.30		9					
	100 (88) 60				(10.50)		
		4					
7.90							

Instrument/ Backfill

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.5	Water	100

GENERAL REMARKS

BH terminated at 12.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-R3**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	06-06-25 06-06-25	208.01	E 536,438.5 N 817,431.2

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (93) 67	6						Extremely strong locally strong thinly foliated grey fine and medium grained QUARTZ MICA SCHIST. *(continued)*	
9.50		4							
	100 (92) 41								
10.90		12				10.50m to 11.10m: pinkish white quartz vein. 10.50 - 11.10 Joint, subvertical dip, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and surficial orange and orangish brown iron stain and powder, open.			
	100 (92) 70	4							
06.06 12.50			195.51		12.50				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
06/06/25	17.30	12.50					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.50m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller PMcG	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-04-25 01-04-25	127.99	E 540,383.7 N 814,284.5

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 10.00 : overburden.		Open hole drilling. No recovery.	
	- - -				(3.00)				
3.00			124.99		3.00				
	40 - -							Subrounded to subangular fine to coarse occasional light grey and dark grey limestone and assorted metamorphic GRAVEL with cobbles and boulder and a little brown silt. Cobbles are of assorted grey limestone and assorted metamorphic lithologies.	
4.50		4.50 (25/75mm)				Core run - 4.50m to 6.00m: 1 No brown sandstone boulder 240mm in length.			
	33 - -								
		5.50 (34/150mm)							
6.00					(7.00)				
	46 - -								
7.10		7.10 (25/75mm)				7.10m to 8.00m: with a little brown slightly silty fine sand.			
	33 - -								
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	14	Water	0

GENERAL REMARKS

BH terminated at 14.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	14-04-25 01-04-25	127.99	E 540,383.7 N 814,284.5

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	27 - -							Subrounded to subangular fine to coarse occasional light grey and dark grey limestone and assorted metamorphic GRAVEL with cobbles and boulder and a little brown silt. Cobbles are of assorted grey limestone and assorted metamorphic lithologies. *(continued)*	
9.50			117.99		10.00				
	73 (65) 51	3				10.00 - 14.00 DISC, medium spaced, from 6.50m locally closley spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 1mm thick grey silt smear.		Extremely strong locally very strong and strong thinly foliated grey fine and medium grained QUARTZ MICA SCHIST with many subrounded fine to coarse gravel sized clasts of white quartz and visible finely disseminated pyrite.	
14.04 15.04 11.00									
	100 (92) 91	4			(4.00)				
12.50		4				12.50 No obvious area of core loss. No recovery as washout of fines during drilling. No record of cavity.			
	100 (75) 43	NR				12.80m: thinly interbedded with white quartz veinlets.			
15.04 14.00			113.99		14.00				

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
14/04/25	17.30	11.00					
15/04/25	08.00	11.00					
15/04/25	13.00	14.00					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 14.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-04-25 14-04-25	123.71	E 540,463.2 N 814,259.7

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00						0.00 - 7.90 : overburden.		Open hole drilling. No recovery.	
	-				(3.00)				
	-								
3.00			120.71		3.00				
	40							Subrounded to subangular fine to coarse occasional light grey and dark grey limestone and assorted metamorphic GRAVEL with cobbles and boulder and a little brown silt. Cobbles are of assorted grey limestone and assorted metamorphic lithologies.	
	-								
	-								
5.00					(4.90)	Core run - 5.00m to 6.50m: 1 No grey quartz mica schist boulder 250mm in length.			
	47								
	-								
	-								
6.50									
	87 (52) 44								
			115.81		7.90				
8.00									

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			3.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	6	Water	100
6	12.1	Water	0

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-04-25 14-04-25	123.71	E 540,463.2 N 814,259.7

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities Detail	Main	Instrument/ Backfill
	100 (97) 92	4				7.90 - 12.10 DISC, medium spaced, locally very closely spaced and closely spaced, dipping 10 to 12°, stepped, rough, with 0.5 to 2mm thick grey silt smear and minor surficial orangish brown and orange iron stain and powder. 8.15 - 8.30 Joint, subvertical dip, stepped, rough, with 0.5 to 2mm thick brown silt smear and surficial orangish brown and orange iron stain and powder, open.	Extremely strong locally very strong to medium strong thinly foliated bluish grey fine and medium grained QUARTZ MICA SCHIST with many subrounded fine to coarse gravel sized clasts of white and bluish white quartz. *(continued)*	
9.40		1						
	100 (80) 73				(4.20)	10.25 - 10.60 2PARA, subvertical dip, stepped, smooth, with 0.5 to 3mm thick brown silt smear and surficial orangish brown iron stain and powder, open to moderately wide.		
10.70		5						
	100 (97) 78							
		6				11.60 - 11.75 Joint, subvertical dip, stepped, smooth, with 0.5 to 2mm thick brown silt smear and surficial orangish brown and orange iron stain and powder and visible finely disseminated pyrite, open.		
11.04 12.04 12.10			111.61		12.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
11/04/25	17.30	12.10					
12/04/25	08.00	12.10					
12/04/25	10.00	12.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-04-25 16-04-25	129.47	E 540,375.9 N 814,317.9

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS						STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
0.00	76 - -				(1.30)	0.00 - 1.30 : overburden.		Subrounded to subangular fine to coarse assorted grey limestone and quartz mica schist GRAVEL with cobbles. Cobbles are of grey limestone.	
1.30			128.17		1.30				
	100 (89) 81	3				1.30 - 15.00 DISC, medium spaced, locally very closely spaced, dipping 10 to 12 and 84 to 86°, undulating, smooth, with 0.5 to 1mm thick grey silt smear.		Extremely strong and very strong locally medium strong thinly foliated bluish grey and dark grey fine and medium grained QUARTZ MICA SCHIST with subvertical and randomly orientated white quartz veinlets and subrounded fine to coarse gravel sized clasts of white and bluish white quartz.	
2.80		3							
	100 (90) 71	7							
4.40		6							
	100 (96) 69	5							
5.90						6.00m: with visible surficial finely disseminated pyrite.			
	100 (95) 91	2							
7.40		2							

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	15	Water	0

GENERAL REMARKS

BH terminated at 15.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	15-04-25 16-04-25	129.47	E 540,375.9 N 814,317.9

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (97) 96				(13.70)			Extremely strong and very strong locally medium strong thinly foliated bluish grey and dark grey fine and medium grained QUARTZ MICA SCHIST with subvertical and randomly orientated white quartz veinlets and subrounded fine to coarse gravel sized clasts of white and bluish white quartz. *(continued)*	
		2							
8.90									
	100 (95) 83	4							
15.04 10.40 15.04									
		3							
	100 (96) 94								
		2							
11.90									
	100 (94) 91	2							
13.40									
		5							
	100 (95) 86								
		6							
16.04 15.00 16.04			114.47		15.00				

Drilling Progress and Water Observations							
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
15/04/25	17.30	10.40					
16/04/25	08.00	15.00					
16/04/25	13.00	15.00					

Rotary Flush			
From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 15.00m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-04-25 17-04-25	128.05	E 540,419.1 N 814,300.0

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
0.00			127.94		0.11	0.00 - 1.00 : overburden.	ASPHALT.	
					(0.89)		Subrounded to subangular fine to coarse assorted grey limestone GRAVEL.	
	73 (46) 17		127.05		1.00			
1.90		2				1.00 - 10.10 DISC, medium spaced, locally very closely spaced, dipping 45 to 48 and 84 to 86°, stepped, rough, with 0.5 to 1mm thick orangish brown clay smear and minor surficial orangish brown iron stain.	Extremely strong thinly foliated dark grey and grey fine and medium grained QUARTZ MICA SCHIST with subvertical and randomly orientated white quartz veinlets and subrounded fine to coarse gravel sized clasts of white and bluish white quartz.	
	100 (97) 91	2						
3.00						3.00m to 3.10m: horizontal white quartz vein.		
	100 (81) 67	6						
4.50		3						
	100 (97) 58				(9.10)			
		3						
6.00								
	100 (95) 87	3						
7.60		3						

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			2.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	10.1	Water	0

GENERAL REMARKS

BH terminated at 10.10m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-T04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	16-04-25 17-04-25	128.05	E 540,419.1 N 814,300.0

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (96) 88	3						Extremely strong thinly foliated dark grey and grey fine and medium grained QUARTZ MICA SCHIST with subvertical and randomly orientated white quartz veinlets and subrounded fine to coarse gravel sized clasts of white and bluish white quartz. *(continued)*	
8.90									
	100 (97) 95	4							
16.04 10.10 17.04			117.95		10.10				

Drilling Progress and Water Observations							
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
16/04/25	17.30	10.10					
17/04/25	08.00	10.10					
17/04/25	16.00	10.10					

Rotary Flush			
From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 10.10m bgl on REs instruction. BH reinstated.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-03-25 24-03-25	12.51	E 517,342.1 N 816,772.8

Engineer	Sheet	Status
Atkins Realis	1 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities	Detail	Main
0.00						0.00 - 7.60 : overburden.		Open hole drilling. No recovery.
	- - -				(2.50)			
2.50			10.01		2.50			
	80 - -							Subangular fine to coarse brown sandstone and assorted grey limestone GRAVEL.
3.00					(1.50)			
	30 - -							
4.00		4.00 (38/150mm)	8.51		4.00			Very stiff grey slightly gravelly SILT with cobbles. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of pink granite and assorted grey limestone. Cobbles are of assorted grey limestone.
	63 - -							
4.80								
	44 - -							
5.70		5.50 (63/225mm)			(3.60)			
	50 - -							
6.90								
	18 (16) 14		4.91		7.60			
7.80						7.60 - 12.10 DISC, medium spaced, locally closely spaced, dipping 10 to 12°,		

Instrument/ Backfill

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			2.50	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	12.1	Water	100

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	11-03-25 24-03-25	12.51	E 517,342.1 N 816,772.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION Discontinuities / Detail	Main	Instrument/ Backfill
		1				stepped, rough, with 0.5 to 2mm thick dark grey silt smear.	Very strong and strong thinly bedded grey bioclastic fine and medium grained LIMESTONE. *(continued)*	
	100 (97) 96	2						
9.30								
		3			(4.50)			
	100 (98) 94							
		3						
10.90								
	100 (98) 96							
		3						
11.03 24.03 12.10			0.41		12.10			

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
11/03/25	17.30	12.10					
24/03/25	08.00	12.10					
24/03/25	10.00	12.10					

Rotary Flush

From (m)	To (m)	Type	Return (%)

GENERAL REMARKS

BH terminated at 12.10m bgl on REs instruction.
50mm standpipe installed.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-03-25 26-03-25	9.60	E 517,389.6 N 816,739.8

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL

RUN DETAILS					STRATA			
Depth / Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick-ness)	DESCRIPTION: Discontinuities / Detail	DESCRIPTION: Main	Instrument/ Backfill
0.00	- - -				(0.50)	0.00 - 5.50 : overburden.	Open hole drilling. No recovery.	
0.50			9.10		0.50			
	53 - -					Core run - 0.50m to 2.00m: 1 No grey bioclastic limestone boulder 390mm in length	Subrounded to subangular fine to coarse assorted grey limestone GRAVEL with cobbles and boulders and a little grey silt. Cobbles are of assorted grey limestone.	
2.00								
	40 - -				(5.00)			
3.50								
	58 - -	4.00 (25/75mm)						
4.70								
	100 (20) 13		4.10		5.50			
5.80		3				5.50 - 8.90 DISC, medium spaced, locally closely spaced, dipping 8 to 10°, stepped, rough, with 0.5 to 2mm thick grey silt smear.	Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE.	
	100 (88) 83	4						
					(3.40)			
7.40		4				7.40m to 8.00m: extremely strong subrounded medium gravel sized black fine grained chert nodules.		

Drilling Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing
			1.00	96			

Rotary Flush

From (m)	To (m)	Type	Return (%)
0	8.9	Water	100

GENERAL REMARKS

BH terminated at 8.90m bgl on REs instruction. BH backfilled.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: CS-14		Driller: DK	Logged By: EAT

IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DRILLHOLE LOG

Project	Location	DRILLHOLE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**BH-WH02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-03-25 26-03-25	9.60	E 517,389.6 N 816,739.8

Engineer	Sheet	Status
Atkins Realis	2 of 2	FINAL

RUN DETAILS					STRATA			
Depth Date	TCR (SCR) RQD	(SPT) Fracture Index	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION Discontinuities	Detail	Main	Instrument/ Backfill
	100 (97) 83	4	0.70		8.90	8.40 - 8.90 Joint, vertical dip, stepped, smooth, clean, open as drilling induced?		Very strong locally strong thinly bedded grey slightly bioclastic fine and medium grained LIMESTONE. *(continued)*	
25.03 8.90 26.03									

Drilling Progress and Water Observations								Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia	Core Dia mm	Water Strike	Water Standing	From (m)	To (m)	Type	Return (%)	
25/03/25	17.30	8.90										BH terminated at 8.90m bgl on REs instruction. BH backfilled.
26/03/25	08.00	8.90										
26/03/25	10.00	8.90										

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used CS-14		Driller DK	Logged By EAT

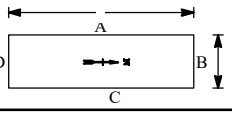
IDL AGS4 UK DH (SPTS) LOUGH TALT LOT1 RC ALL FILE W COORDS SEPT 17 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Appendix 3
Trial Pit Records

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LG01**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 519,904.8 N 827,362.4**	**Rev: FINAL**
Ground level: 63.52m O.D.		**DATE: 6.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							63.32	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES	0.50-1.00	19mm vane 74 kN/m²				Stiff brown slightly sandy slightly gravelly SILT.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 89 kN/m²					
1										
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2							61.02	2.50		
			B 5	2.50-3.00					Firm dark greyish brown slightly sandy slightly gravelly SILT with occasional cobbles. Cobbles are subangular of limestone.	
			D 6	2.50-3.00						
3							60.52	3.00		
									END	
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 0.50m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 3.00m bgl. Obstruction as possible rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

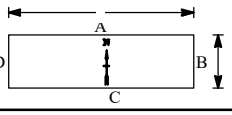
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-LG02**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 519,765.4 N 827,330.2**
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 63.94m O.D.	**DATE: 30.1.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							63.64	0.30	TOPSOIL: Soft dark brown slightly gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 42 kN/m² 19mm vane 47 kN/m²		62.94	1.00	Firm light brown slightly sandy SILT.	
1							62.14	1.80	Soft grey SILT. 1.50: becoming firm.	
			B 3 D 4	1.80-2.20 1.80-2.20			61.74	2.20	Stiff grey slightly sandy gravelly SILT with frequent cobbles. Cobbles are angular of limestone.	
2						END				
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.70m bgl. Ingress of water at 2.10m bgl. TP terminated at 2.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

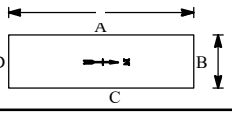
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-LG03**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**
ENGINEER: Atkins Realis	**E 519,826.9 N 827,292.8**
Rig: Hitachi 130	
Rev: FINAL	
Ground level: 63.59m O.D.	**DATE: 4.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			B 1 D 2	0.30-0.60 0.30-0.60	19mm vane 108 kN/m² 110 kN/m²		62.99	0.60	MADE GROUND: Stiff brown slightly sandy gravelly SILT with occasional cobbles. Cobbles are angular to subangular of limestone.	
									END	
1										
2										
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. TP dry on excavation. TP terminated at 0.60m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

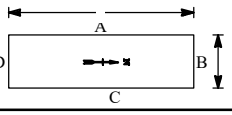
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-LG04
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 519,797.5 N 827,277.8	**Rig:** Hitachi 130
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 63.58m O.D.		**DATE:** 30.1.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							63.38	0.20	TOPSOIL: Soft dark brown slightly gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 42 kN/m² 19mm vane 47 kN/m²		62.28	1.30	Firm brown slightly gravelly slightly sandy organic SILT.	
1										
2			B 3 D 4	1.50-2.00 1.50-2.00			61.58	2.00	Stiff brown slightly sandy slightly gravelly SILT with frequent cobbles. Cobbles are angular to subangular of limestone.	
									END	
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.60m bgl. Seepage of water at 1.90m bgl. TP terminated at 2.00m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

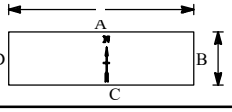
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-LG05
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 519,881.7 N 827,268.6	**Rig:** Hitachi 130
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 63.76m O.D.		**DATE:** 4.2.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									MADE GROUND: Angular to subangular limestone GRAVEL and COBBLES and firm brown gravelly silt.	
			B 1	0.50-1.00						
			D 2	0.50-1.00						
1					19mm vane 122 kN/m² 19mm vane 122 kN/m²		62.76	1.00	Stiff greyish orange brown slightly sandy slightly gravelly SILT.	
			B 3	1.40-1.80						
			D 4	1.40-1.80						
2			B 5	2.00-2.40						
			D 6	2.00-2.40						
							61.36	2.40		
						END				
3										
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 1.00m bgl. Hand vane test at 1.10m bgl. TP dry on excavation. TP terminated at 2.40m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

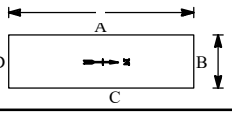
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-LG06
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 519,959.9 N 827,244.5
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 60.88m O.D.	**DATE:** 6.2.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							60.68	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES	0.40-0.80					Stiff brown slightly gravelly slightly sandy organic SILT.	
			B 1	0.40-0.80						
			D 2	0.40-0.80	19mm vane 89 kN/m²					
					19mm vane 92 kN/m²		59.98	0.90		
1			B 3	0.90-1.10					Weathered rock.	
			D 4	0.90-1.10			59.78	1.10	Limestone recovered as stiff dark greyish brown slightly gravelly SILT with frequent cobbles. Cobbles are subangular and angular of limestone.	
						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.60m bgl. Seepage of water at 1.10m bgl. TP terminated at 1.10m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

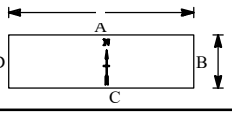
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-LG07**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 519,824.5 N 827,256.3
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 63.26m O.D.	**DATE: 30.1.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							63.06	0.20	TOPSOIL: Soft grey gravelly SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 116 kN/m 19mm vane 122 kN/m		61.76	1.50	MADE GROUND: Brown sandy very silty medium GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
1						END				
2										
3										
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 0.40m bgl. Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.50m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

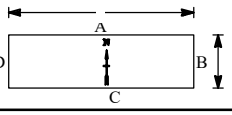
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-LG08**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 519,931.1 N 827,195.5
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 60.45m O.D.	**DATE: 6.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							60.15	0.30	TOPSOIL: Soft dark brown gravelly SILT.	
			ES	0.40-0.80					Stiff orange brown slightly sandy slightly gravelly organic SILT.	
			B 1	0.40-0.80						
			D 2	0.40-0.80	19mm vane 119 kN/m²					
					19mm vane 122 kN/m²					
1							59.25	1.20		
			B 3	1.20-1.50					Weathered rock. Limestone recovered as firm dark brown gravelly SILT with frequent cobbles. Cobbles are subangular and angular of limestone.	
			D 4	1.20-1.50						
							58.95	1.50		
						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.70m bgl. Seepage of water at 1.50m bgl. TP terminated at 1.50m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

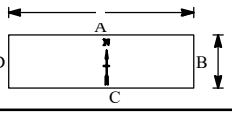
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-LG09
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 519,909.0 N 827,104.7
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 57.92m O.D.	**DATE:** 14.2.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							57.72	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES B 1 D 2	0.50-0.90 0.50-0.90 0.50-0.90	19mm vane 98 kN/m² 19mm vane 89 kN/m²		57.02	0.90	Stiff brown slightly gravelly slightly sandy organic SILT.	
1			B 3 D 4	1.10-1.40 1.10-1.40			56.52	1.40	Dark brown sandy very silty medium and coarse GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
									END	
2										
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.70m bgl. Percolation test expedited in TP. TP dry on excavation. TP terminated at 1.40m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

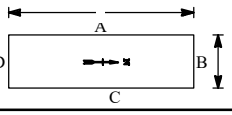
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LG10**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 519,990.9 N 826,947.2**	**Rev: FINAL**
Ground level: 52.92m O.D.		**DATE: 18.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							52.72	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 89 kN/m² 19mm vane 89 kN/m²		51.92	1.00	Stiff wet brown slightly sandy slightly gravelly SILT with rare cobbles. Cobbles are angular and subangular of limestone. Sand is medium.	
1						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.00m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

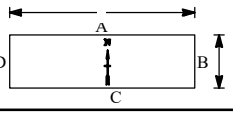
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LR01**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,272.5 N 826,811.3**	**Rev: FINAL**
Ground level: 44.02m O.D.		**DATE: 7.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							43.82	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 104 kN/m² 19mm vane 104 kN/m²				Stiff brown slightly sandy slightly gravelly SILT with frequent cobbles. Cobbles are subangular and angular of limestone.	
1							42.82	1.20	**END**	
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

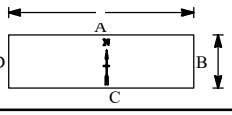
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LR02**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,309.7 N 826,801.2**	**Rev: FINAL**
Ground level: 43.50m O.D.		**DATE: 10.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							43.30	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES	0.50-1.00					Stiff orange brown slightly sandy slightly gravelly SILT with rare cobbles. Cobbles are subangular and angular of limestone.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 101 kN/m²					
					19mm vane 101 kN/m²					
1										
2			B 3	2.00-2.50						
			D 4	2.00-2.50						
							41.00	2.50		
						END				
3										
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.50m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

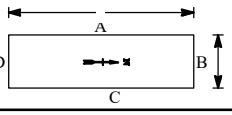
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LR03**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,333.5 N 826,808.9**	**Rev: FINAL**
Ground level: 44.38m O.D.		**DATE: 7.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							44.18	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 104 kN/m² 19mm vane 104 kN/m²		42.98	1.40	MADE GROUND: Firm dark brown slightly sandy slightly gravelly SILT with frequent cobbles and steel and old pipes. Cobbles are angular to subangular of limestone.	
1						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.40m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

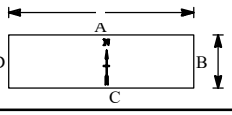
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-LR04**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 520,305.1 N 826,851.5**
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 46.49m O.D.	**DATE: 7.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							46.29	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00				45.29	1.20	MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with frequent cobbles. Cobbles are angular to subangular of limestone.	
1										
			B 3 1.50-2.00 D 4 1.50-2.00				44.29	2.20	Stiff becoming very stiff brown slightly gravelly sandy SILT.	
2						END				
3										
4										
5										

Remarks: Percolation test expedited in TP. TP dry on excavation. TP terminated at 2.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

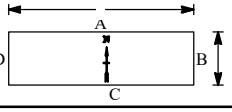
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LR05**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,418.6 N 826,834.1**	**Rev: FINAL**
Ground level: 44.26m O.D.		**DATE: 10.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							44.06	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Firm brown slightly sandy slightly gravelly SILT with frequent cobbles. Cobbles are angular to subangular of limestone.	
1					19mm vane 104 kN/m² 19mm vane 107 kN/m²		43.26	1.00	Stiff to very stiff dark brown slightly sandy slightly gravelly organic SILT.	
			B 3 D 4	1.50-1.80 1.50-1.80						
2										
3							41.26	3.00	Stiff to very stiff greyish brown slightly sandy slightly gravelly SILT with rare cobbles. Cobbles are subangular to angular of limestone.	
			B 5 D 6	3.50-4.00 3.50-4.00						
4							40.06	4.20		
						END				
5										

Remarks: Hand vane test at 1.00m bgl. Hand vane test at 1.10m bgl. Percolation test expedited in TP. TP dry on excavation. TP terminated at 4.20m bgl. Obstruction as possible weathered rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

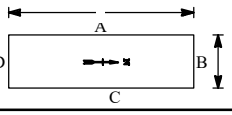
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-LR06**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,434.7 N 826,924.7**	**Rev: FINAL**
Ground level: 44.92m O.D.		**DATE: 7.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							44.72	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 104 kN/m² 19mm vane 98 kN/m²		43.52	1.40	Stiff brown slightly sandy slightly gravelly organic SILT with frequent cobbles. Cobbles are angular to subangular of limestone.	
1						END				
2										
3										
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 1.40m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

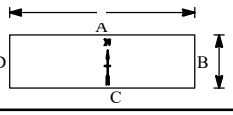
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M01**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,129.5 N 826,752.8**	**Rev: FINAL**
Ground level: 46.73m O.D.		**DATE: 13.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							46.53	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 101 kN/m² 19mm vane 101 kN/m²		45.53	1.20	Stiff brown slightly sandy slightly gravelly SILT.	
1										
2			B 3 D 4	1.50-2.00 1.50-2.00			44.73	2.00	Brown very silty SAND and GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.00m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

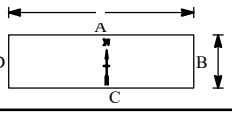
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M02**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 520,568.1 N 826,770.8
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 42.55m O.D.	**DATE: 21.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							41.95	0.60	TOPSOIL: Soft dark brown peaty SILT.	
1			ES B 1 D 2	0.60-1.10 0.60-1.10 0.60-1.10	19mm vane 36 kN/m² 39 kN/m²		40.95	1.60	Brownish grey very silty very sandy GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to angular of limestone. Boulders are subangular to angular of limestone. Sand is medium. Gravel is coarse.	
									END	
2										
3										
4										
5										
6										
7										
8										
9										
10										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.60m bgl. Obstruction as rock. TP backfilled.

Scale: 1:50

Irish drilling LTD

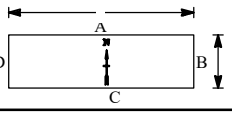
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TRIALPIT LOUGH TALT COMBINED.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M03**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 520,720.1 N 826,748.2**	**Rev: FINAL**
Ground level: 42.48m O.D.		**DATE: 21.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							42.18	0.30	TOPSOIL: Soft dark brown gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 84 kN/m² 86 kN/m²				Stiff grey slightly sandy slightly gravelly SILT with frequent cobbles and rare boulders. Cobbles are subangular to angular of limestone. Boulders are subangular to angular of limestone.	
1							41.28	1.20		
									END	
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

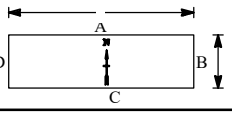
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M04
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 520,875.2 N 826,717.5
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 43.27m O.D.	**DATE:** 21.3.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							43.07	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 84 kN/m² 19mm vane 84 kN/m²		41.77	1.50	Stiff greyish brown slightly gravelly sandy organic SILT with rare cobbles. Cobbles are subrounded to subangular of limestone.	
1										
2			B 3 D 4	2.00-2.50 2.00-2.50			40.57	2.70	Grey silty very sandy medium GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to angular of limestone. Boulders are subangular to angular of limestone.	
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. Seepage of water at 2.50m bgl. TP terminated at 2.70m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

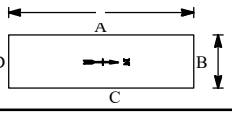
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M05
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 521,028.3 N 826,694.8
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 44.51m O.D.	**DATE:** 26.3.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							44.31	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 86 kN/m² 19mm vane 84 kN/m²		43.11	1.40	Brown very silty SAND and GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
1										
2		▼	B 3 D 4	1.50-2.00 1.50-2.00			42.21	2.30	Grey very silty SAND and GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to subrounded of limestone. Boulders are subangular to subrounded of limestone.	
						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. Ingress of water at 1.90m bgl. TP terminated at 2.30m bgl. Obstruction. TP backfilled.

Scale: 1:25

Irish drilling LTD

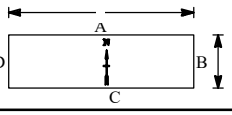
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M06**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 521,230.0 N 826,659.5
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 45.53m O.D.	**DATE: 26.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							45.33	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 56 kN/m² 59 kN/m²		44.53	1.00	Firm greyish brown slightly sandy slightly gravelly SILT with occasional cobbles. Cobbles are subangular of limestone.	
1									Grey silty very sandy GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
			B 3 1.50-2.00 D 4 1.50-2.00							
2							43.33	2.20		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 2.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

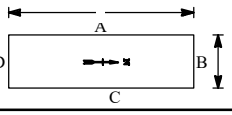
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M07**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 521,466.0 N 826,668.0**	**Rev: FINAL**
Ground level: 52.30m O.D.		**DATE: 26.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							51.80	0.50	TOPSOIL: Soft dark brown gravelly SILT.	
			ES	0.50-1.00					Stiff brown slightly gravelly sandy SILT with occasional cobbles and rare boulders. Cobbles are subrounded to subangular of siltstone and limestone. Boulders are subrounded to subangular of siltstone and limestone.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 86 kN/m²					
1										
									1.40: becoming very stiff.	
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2							50.10	2.20		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.20m bgl. Obstruction as possible rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

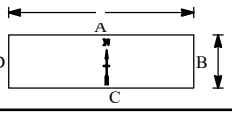
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M08**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 521,618.0 N 826,655.3**	**Rev: FINAL**
Ground level: 48.37m O.D.		**DATE: 19.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							48.17	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES 0.30-0.60 B 1 0.30-0.60 D 2 0.30-0.60				47.77	0.60	Firm brown slightly sandy gravelly SILT with frequent cobbles. Cobbles are subangular to angular of limestone.	
									END	
1										
2										
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 0.60m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

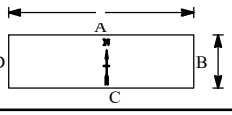
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M09**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 521,770.2 N 826,654.8**	**Rev: FINAL**
Ground level: 47.67m O.D.		**DATE: 19.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							47.47	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 58 kN/m² 60 kN/m²		46.67	1.00	Firm brown slightly gravelly slightly sandy SILT with occasional cobbles. Cobbles are subangular to angular of limestone.	
1						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.00m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

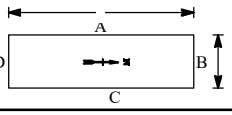
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M10**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,035.5 N 826,327.5**	**Rev: FINAL**
Ground level: 37.27m O.D.		**DATE: 31.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							36.77	0.50	MADE GROUND: Soft dark brown gravelly SILT and stone.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 59 kN/m² 62 kN/m²				Firm brown slightly sandy gravelly SILT with frequent cobbles. Cobbles are angular to subangular of limestone.	
1							36.07	1.20	**END**	
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

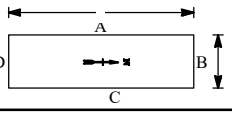
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M11**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,153.0 N 825,987.0**	**Rev: FINAL**
Ground level: 35.43m O.D.		**DATE: 2.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 62 kN/m² 19mm vane 62 kN/m²		34.73	0.70	MADE GROUND: Stone silt gravel as road fill.	
1							33.93	1.50	Firm brown slightly gravelly sandy SILT with occasional cobbles. Cobbles are subangular of limestone.	
			B 3 1.50-2.00 D 4 1.50-2.00				33.13	2.30	Orange brown very sandy very silty medium GRAVEL with occasional cobbles. Cobbles are subangular of limestone.	
2						END				
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

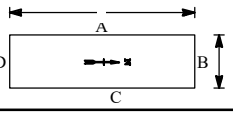
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M12**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,184.4 N 825,894.9**	**Rev: FINAL**
Ground level: 34.84m O.D.		**DATE: 2.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Stone gravel as road fill.	
							34.14	0.70		
1					19mm vane 82 kN/m² 84 kN/m²				Stiff brown slightly sandy slightly gravelly SILT with occasional cobbles and rare boulders. Cobbles are subangular of siltstone and limestone. Boulders are subangular of siltstone and limestone.	
2			B 3 D 4	1.50-2.00 1.50-2.00					2.40: becoming firm damp.	
			B 5 D 6	2.50-2.90 2.50-2.90						
							31.94	2.90		
3						END				
4										
5										

Remarks: Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.90m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

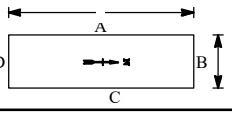
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M13**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 522,249.1 N 825,701.6
ENGINEER: Atkins Realis	**Rig: XCMG-80**
	Rev: FINAL
Ground level: 32.53m O.D.	**DATE: 2.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00			31.73	0.80	MADE GROUND: Stone sand gravel as road fill.	
1							30.73	1.80	Soft dark brown peaty SILT.	
			B 3 D 4	1.80-2.30 1.80-2.30			29.53	3.00	Dark grey very sandy very silty medium and coarse GRAVEL with occasional cobbles. Cobbles are subangular of siltstone.	
2										
3									**END**	
4										
5										

Remarks: Seepage of water at 3.00m bgl. TP terminated at 3.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

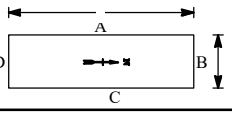
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT:** TP-M14
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig:** XCMG-80
ENGINEER: Atkins Realis	E 522,246.8 N 825,619.7		**Rev:** FINAL
Ground level: 31.14m O.D.			**DATE:** 3.4.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as dark brown very silty sand and gravel with plastic and timber.	
							30.14	1.00		
1									Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 TV1 TH1 A0.	
							29.44	1.70		
			B 3 D 4	1.70-2.20 1.70-2.20					Soft cream slightly gravelly sandy SILT/MARL.	
2							28.94	2.20		
						END				
3										
4										
5										

Remarks: Ingress of water at 1.70m bgl. TP terminated at 2.20m bgl. Unable to progress TP - sidewall collapse and ingress of water. TP backfilled.

Scale: 1:25

Irish drilling LTD

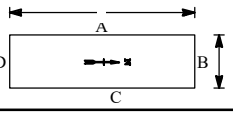
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M15
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 522,234.2 N 825,518.7
ENGINEER: Atkins Realis	**Rig:** XCMG-80
	Rev: FINAL
Ground level: 31.97m O.D.	**DATE:** 7.4.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							31.47	0.50	TOPSOIL: Firm dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 95 kN/m² 19mm vane 98 kN/m²				Stiff orange brown slightly sandy slightly gravelly SILT.	
1							30.97	1.00		
									Soft dark brown gravelly SILT with occasional cobbles. Cobbles are subangular to angular of limestone.	
							30.47	1.50		
			B 3 D 4	1.50-2.00 1.50-2.00					Brown very sandy very silty coarse GRAVEL.	
2							29.97	2.00		
									Soft dark brown gravelly SILT with occasional cobbles. Cobbles are subangular to angular of limestone.	
			B 5 D 6	2.50-2.80 2.50-2.80						
							29.17	2.80		
							END			
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.80m bgl. Obstruction as possible rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

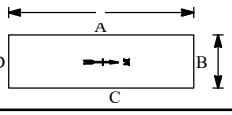
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-M16
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 522,223.0 N 825,379.6	**Rig:** XCMG-80
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 28.90m O.D.		**DATE:** 8.4.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00					Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F1 R1 TV1 TH1 A0.	
1							27.60	1.30		
									Soft white SILT.	
							27.10	1.80		
			B 3 D 4	1.80-2.30 1.80-2.30					Soft grey slightyl gravelly sandy organic SILT.	
2							26.10	2.80		
									Soft grey slightly gravelly sandy SILT. Sand is fine and medium.	
3			B 5 D 6	3.00-3.50 3.00-3.50						
							25.10	3.80		
						END				
4										
5										

Remarks: Ingress of water at 3.50m bgl. TP terminated at 3.80m bgl. Unable to progress TP - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

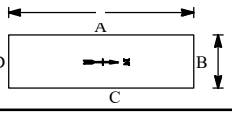
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M17**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 522,218.4 N 825,313.1
ENGINEER: Atkins Realis	**Rig: XCMG-80**
	Rev: FINAL
Ground level: 29.13m O.D.	**DATE: 9.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							28.83	0.30	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 86 kN/m²		27.93	1.20	Brownish grey silty very gravelly SAND with occasional cobbles. Cobbles are subangular of limestone.	
1										
2		▼	B 3 D 4	1.50-2.00 1.50-2.00			26.83	2.30	Brownish grey silty very sandy GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of siltstone and limestone.	
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Ingress of water at 2.00m bgl. TP terminated at 2.30m bgl. Obstruction. TP backfilled.

Scale: 1:25

Irish drilling LTD

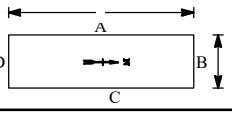
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M18**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 522,213.8 N 825,200.0**
ENGINEER: Atkins Realis	**Rig: XCMG-80**
	Rev: FINAL
Ground level: 30.55m O.D.	**DATE: 9.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as dark grey very silty very sandy fine and medium GRAVEL.	
1							29.55	1.00		
									Firm brown SILT.	
							29.25	1.30		
			B 3 D 4	1.50-2.00 1.50-2.00					Soft spongy dark brown pseudo fibrous slightly sandy slightly gravelly PEAT. H4 B2 F1 R1 W1 TV1 TH1 A0.	
2							28.45	2.10		
									Grey very gravelly very silty medium SAND with occasional cobbles. Cobbles are subangular to subrounded of limestone and siltstone.	
			B 5 D 6	2.50-2.90 2.50-2.90						
							27.65	2.90		
3									**END**	
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.90m bgl. Obstruction. TP backfilled.

Scale: 1:25

Irish drilling LTD

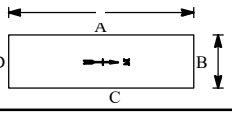
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M19**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,280.4 N 824,865.6**	**Rev: FINAL**
Ground level: 33.57m O.D.		**DATE: 22.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as dark brown silty very sandy fine and medium gravel and Clause 804 type material.	
							32.67	0.90		
1									MADE GROUND: Firm grey slightly gravelly sandy SILT.	
			B 3 D 4	1.50-2.00 1.50-2.00						
							31.57	2.00		
2									Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
			B 5 D 6	2.50-3.00 2.50-3.00						
3										
							30.07	3.50		
						END				
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl. On REs instruction - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

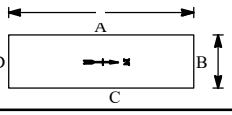
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M20**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,330.2 N 824,758.9**	**Rev: FINAL**
Ground level: 33.85m O.D.		**DATE: 22.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as roadfill - firm light brown slightly gravelly sandy SILT.	
1							32.85	1.00		
									Soft spongy dark brown pseudo fibrous PEAT. H54 B2 F1 R2 W1 TV1 TH1 A0.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2										
			B 5 D 6	2.50-3.00 2.50-3.00			31.35	2.50		
		▼1							Greyish black very silty very sandy coarse GRAVEL.	
3							30.65	3.20		
									END	
4										
5										

Remarks: Seepage of water at 2.70m bgl. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

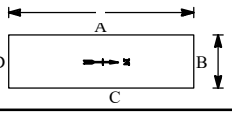
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M21**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 522,364.5 N 824,666.0**	**Rev: FINAL**
Ground level: 33.97m O.D.		**DATE: 25.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00					MADE GROUND: Roadfill and light brown very silty sand and gravel.	
							32.97	1.00		
1									Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F1 R2 W1 TV1 TH1 A0.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2										
							31.27	2.70		
			B 5 D 6	2.80-3.20 2.80-3.20					Brownish grey silty very sandy medium GRAVEL with frequent cobbles. Cobbles are subangular to subrounded of siltstone.	
3										
							30.47	3.50		
									END	
4										
5										

Remarks: Ingress of water at 1.70m bgl. TP terminated at 3.50m bgl. On REs instruction - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

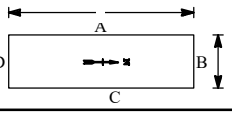
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M22
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 522,700.0 N 823,876.5
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 37.94m O.D.	**DATE:** 25.4.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							37.54	0.40	MADE GROUND: Road fill and stone.	
							37.44	0.50	MADE GROUND: Layers of tarmac.	
			ES	0.50-1.00					MADE GROUND: Recovered as road fill and brown silty sand and gravel with frequent cobbles. Cobbles are subrounded and subangular of siltstone.	
			B 1	0.50-1.00						
			D 2	0.50-1.00						
1										
2							35.84	2.10		
									Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A0.	
			B 3	2.50-3.00						
			D 4	2.50-3.00						
3							34.44	3.50		
									END	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl. On REs instruction - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

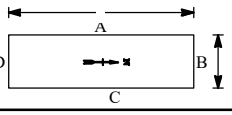
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M23**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 523,131.7 N 823,183.1**	**Rev: FINAL**
Ground level: 38.89m O.D.		**DATE: 30.4.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							38.39	0.50	MADE GROUND: Road fill as Clause 804 type material and dark brown very silty sand and gravel.	
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Soft brown peaty SILT with cobbles. Cobbles are subangular to subrounded of siltstone.	
1							37.09	1.80		
									Soft grey slightly sandy gravelly SILT with frequent cobbles and rare boulders. Cobbles are angular to subangular of siltstone and limestone. Boulders are angular to subangular of siltstone and limestone.	
2			B 3 D 4	2.00-2.50 2.00-2.50						
		▼1								
3							35.39	3.50		
									END	
4										
5										

Remarks: Ingress of water at 3.40m bgl. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

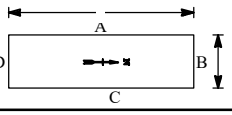
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M24
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 523,280.2 N 823,016.1
ENGINEER: Atkins Realis	**Rig:** XCMG-80
	Rev: FINAL
Ground level: 36.38m O.D.	**DATE:** 30.4.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: 2.00m **20min** 2.00m
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			B 1 D 2	0.50-1.00 0.50-1.00			35.78	0.60	MADE GROUND: Road fill.	
1							35.08	1.30	MADE GROUND: Bricks stone Clause 804 type material and brown very gravelly very silty sand.	
2		11	B 3 D 4	1.50-2.00 1.50-2.00			34.18	2.20	Soft dark brown PEAT.	
3			B 5 D 6	3.00-3.40 3.00-3.40			32.98	3.40	Dark grey very sandy very silty medium GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to angular of siltstone. Boulders are subangular to angular of siltstone.	
4									**END**	
5										

Remarks: Ingress of water at 2.00m bgl. TP terminated at 3.40m bgl. Obstruction. TP backfilled.

Scale: 1:25

Irish drilling LTD

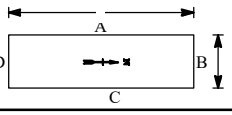
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M25**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 523,511.7 N 822,734.7**
ENGINEER: Atkins Realis	**Rig: XCMG-80**
	Rev: FINAL
Ground level: 33.04m O.D.	**DATE: 6.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00				32.44	0.60	MADE GROUND: Road fill Clause 804 type material and stone.	
1							31.74	1.30	MADE GROUND: Brown slightly gravelly sandy SILT with stone.	
							30.54	2.50	Soft spongy dark brown pseudo fibrous slightly gravelly sandy PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
2			B 3 2.00-2.50 D 4 2.00-2.50							
							30.14	2.90	Soft white organic SILT.	
3			B 5 3.00-3.50 D 6 3.00-3.50				29.44	3.60	Soft grey sandy organic SILT.	
									END	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.60m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

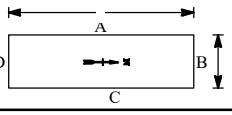
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M26**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 523,545.5 N 822,623.4**	**Rev: FINAL**
Ground level: 32.42m O.D.		**DATE: 6.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							31.92	0.50	MADE GROUND: Road fill stone and Clause 804 type material.	
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as dark grey very silty very sandy fine and medium gravel with stone blocks and timber.	
1										
2			B 3 D 4	2.00-2.50 2.00-2.50			30.42	2.00	Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
							29.72	2.70	Soft whitish brown slightly sandy organic SILT.	
3			B 5 D 6	3.00-3.50 3.00-3.50			28.92	3.50		
						END				
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

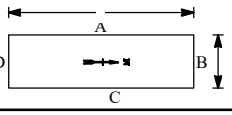
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M27**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 523,613.8 N 822,414.1 — **Rig: XCMG-80**
ENGINEER: Atkins Realis	**Rev: FINAL**
Ground level: 33.56m O.D.	**DATE: 2.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00						MADE GROUND: Road fill stone Clause 804 type material and dark broiwn very silty very sandy medium gravel.	
1							32.56	1.00		
			B 3 1.50-1.90 D 4 1.50-1.90						Brownish grey very silty very sandy fine and medium GRAVEL with frequent cobbles. Cobbles are angular to subangular of limestone.	
							31.66	1.90		
2									**END**	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 1.90m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

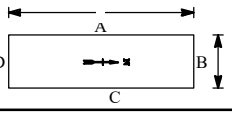
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M28**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 523,647.6 N 822,334.8**	**Rev: FINAL**
Ground level: 33.71m O.D.		**DATE: 2.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00					MADE GROUND: Road fill,brown silty very sandy medium gravel and steel.	
1							32.71	1.00		
									Firm brownish grey slightly gravelly slightly sandy SILT.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2							31.41	2.30		
									Brownish grey very silty SAND and GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular of siltstone. Boulders are subangular of siltstone.	
			B 5 D 6	2.50-3.00 2.50-3.00						
3		▼					30.21	3.50		
						END				
4										
5										

Remarks: Seepage of water at 3.30m bgl. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

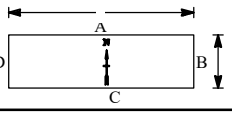
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M29**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 523,700.7 N 822,162.6**		**Rev: FINAL**
Ground level: 35.20m O.D.			**DATE: 7.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			ES	0.40-0.80					MADE GROUND: Road fill Clause 804 type material and dark brown silty very sandy medium gravel.	
			B 1	0.40-0.80						
			D 2	0.40-0.80						
							34.40	0.80		
1									Stiff brown slightly sandy gravelly SILT with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone.	
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2										
							32.80	2.40		
							END			
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.40m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

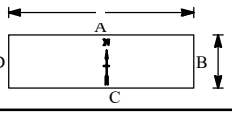
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M30
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 523,756.6 N 821,876.1
ENGINEER: Atkins Realis	**Rig:** XCM6-80
	Rev: FINAL
Ground level: 33.75m O.D.	**DATE:** 8.5.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as brown very silty very gravelly SAND.	
1							32.45	1.30		
							32.25	1.50	Soft dark brown peaty SILT.	
									Stiff greyish brown slightly sandy slightly gravelly SILT with rare cobbles. Cobbles are subangular of siltstone.	
2			B 3 D 4	2.50-3.00 2.50-3.00						
		▼					30.75	3.00		
3									**END**	
4										
5										

Remarks: Seepage of water at 2.90m bgl. TP terminated at 3.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

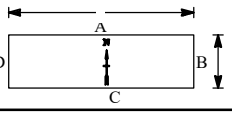
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M30A**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 523,783.5 N 821,699.5**	**Rev: FINAL**
Ground level: 32.72m O.D.		**DATE: 7.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Brown very gravelly very silty sand and bricks.	
1							31.62	1.10		
									Soft dark brown PEAT.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2							30.22	2.50		
									Grey gravelly very silty fine and medium SAND with occasional cobbles. Cobbles are subangular of siltstone.	
3		▼1	B 5 D 6	3.00-3.30 3.00-3.30			29.42	3.30		
									END	
4										
5										

Remarks: Seepage of water at 3.30m bgl. TP terminated at 3.30m bgl. Obstruction. TP backfilled.

Scale: 1:25

Irish drilling LTD

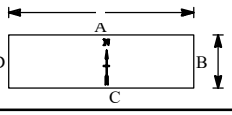
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M30B**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 523,827.6 N 821,411.9**	**Rev: FINAL**
Ground level: 30.92m O.D.		**DATE: 8.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as brown very silty very sandy medium gravel and Clause 804 type material.	
1										
2							28.72	2.20		
									Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F1 R1 W1 TV1 TH1 A0.	
			B 3 D 4	2.50-3.00 2.50-3.00						
3							27.42	3.50		
									END	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

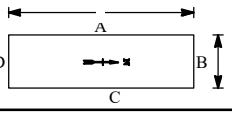
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M30C**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 524,037.8 N 821,315.0**		**Rev: FINAL**
Ground level: 31.52m O.D.			**DATE: 13.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Firm dark brown slightly sandy slightly gravelly SILT. Sand is medium.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 56 kN/m²					
1							30.22	1.30		
									Brown very silty medium SAND and GRAVEL with frequent cobbles and occasional boulders. Cobbles are subangular to subroudend of limestone. Boulders are subangular to subroudend of limestone.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2							29.22	2.30		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

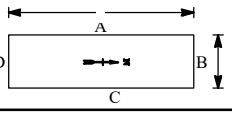
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M31**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 524,281.2 N 821,246.1**
ENGINEER: Atkins Realis	**Rig: XCMG-80**
	Rev: FINAL
Ground level: 30.13m O.D.	**DATE: 13.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							29.83	0.30	MADE GROUND: Clause 804 type material.	
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Recovered as brown very gravelly very silty medium sand.	
1							28.83	1.30		
			B 3 D 4	1.50-1.80 1.50-1.80					Brown very silty very gravelly SAND with frequent cobbles and occasional boulders. Cobbles are subangular to subroudend of limestone. Boulders are subangular to subroudend of limestone.	
							28.33	1.80		
									END	
2										
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 1.80m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

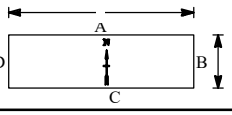
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M32**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 525,199.8 N 821,131.4**	**Rev: FINAL**
Ground level: 12.61m O.D.		**DATE: 21.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES	0.50-1.00					Firm brown slightly gravelly sandy SILT.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 59 kN/m² 19mm vane 62 kN/m²					
1							11.51	1.10		
									Brown very silty SAND and GRAVEL with occasional cobbles. Cobbles are subangular to subroudend of siltstone. Gravel is medium.	
2			B 3	2.00-2.50						
			D 4	2.00-2.50						
3							9.61	3.00		
									END	
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 3.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

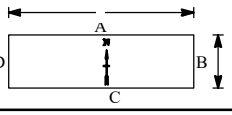
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-M33
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 525,271.2 N 821,087.3	**Rig:** XCMG-80
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 4.51m O.D.		**DATE:** 21.5.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							4.21	0.30	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1 D 2	0.40-0.80 0.40-0.80	19mm vane 59 kN/m² 19mm vane 59 kN/m²		3.41	1.10	Brown very graqvelly very silty medium SAND with occasional cobbles. Cobbles are subangular of siltstone.	
1			B 3 D 4	1.20-1.60 1.20-1.60			2.81	1.70	Possible weathered rock. Limestone recovered as brown very silty very sandy angular gravel and cobble sized clasts with firm light brown gravelly silt.	
									END	
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.70m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

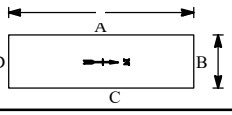
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M34
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 525,366.2 N 821,080.9
ENGINEER: Atkins Realis	**Rig:** XCMG-80
	Rev: FINAL
Ground level: 5.09m O.D.	**DATE:** 22.5.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							4.69	0.40	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1 D 2	0.50-1.00 0.50-1.00					Brown silty very sandy coarse GRAVEL with frequent cobbles. Cobbles are subangular to subrounded of siltstone and sandstone.	
1										
			B 3 D 4	1.50-2.00 1.50-2.00						
2							2.79	2.30		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

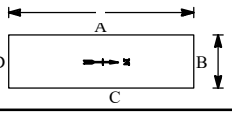
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M35**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 525,466.1 N 821,092.5**	**Rev: FINAL**
Ground level: 7.09m O.D.		**DATE: 21.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES	0.50-1.00			6.59	0.50	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1	0.50-1.00						
			D 2	0.50-1.00					Weathered rock. Limestone recovered as subangular and angular gravel and cobble sized clasts with brown very gravelly very silty sand.	
1							6.09	1.00		
						END				
2										
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 1.00m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

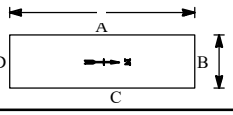
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M36**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 526,744.4 N 820,605.7**	**Rev: FINAL**
Ground level: 23.90m O.D.		**DATE: 22.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							23.40	0.50	TOPSOIL: Soft dark brown peaty SILT.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00						Possible weathered rock. Limestone recovered as brown silty very sandy subangular and angular medium gravel and cobble sized clasts with firm brown gravelly sandy silt.	
1		▼					22.50	1.40		
						END				
2										
3										
4										
5										

Remarks: Ingress of water at 1.40m bgl. TP terminated at 1.40m bgl. Obstruction as possible rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

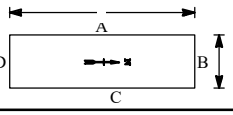
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M37**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 526,907.8 N 820,578.7**	**Rev: FINAL**
Ground level: 28.33m O.D.		**DATE: 22.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.40-0.80 B 1 0.40-0.80 D 2 0.40-0.80	0.40-0.80 0.40-0.80 0.40-0.80	19mm vane 59 kN/m²		27.93	0.40	TOPSOIL: Soft dark brown peaty SILT with roots.	
							27.53	0.80	Weathered rock. Limestone recovered as subangular and angular gravel and cobble sized clasts with brown very silty very gravely sand.	
									END	
1										
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 0.80m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

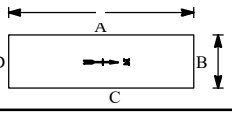
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M38**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 527,571.9 N 820,244.5**	**Rev: FINAL**
Ground level: 34.53m O.D.		**DATE: 26.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							34.13	0.40	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 62 kN/m²		33.03	1.50	Greyish brown very silty very sandy medium GRAVEL with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
			B 3 D 4	1.50-2.00 1.50-2.00			32.53	2.00	Dark grey light brown very silty very sandy medium and coarse GRAVEL with frequent cobbles. Cobbles are angular of limestone.	
							32.23	2.30	Weathered rock. Limestone recovered as angular gravel and cobble sized clasts with light brown gravelly silt.	
						END				

Remarks: Hand vane test at 0.60m bgl. Ingress of water at 2.30m bgl. TP terminated at 2.30m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

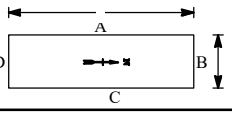
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-M39
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 527,617.3 N 820,204.7	**Rig:** XCMG-80
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 34.85m O.D.		**DATE:** 26.5.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							34.45	0.40	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00	19mm vane 27 kN/m² 19mm vane 27 kN/m²		33.45	1.40	Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
2			B 3 D 4	1.50-2.00 1.50-2.00			32.55	2.30	Soft white sandy organic SILT.	
3		▼	B 5 D 6	2.50-3.00 2.50-3.00			31.35	3.50	Firm brown sandy SILT. Sand is fine and medium.	
						END				
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. Ingress of water at 3.50m bgl. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

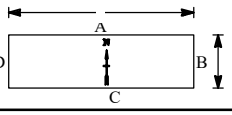
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M40**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 527,725.9 N 820,106.6**	**Rev: FINAL**
Ground level: 36.68m O.D.		**DATE: 26.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							36.38	0.30	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 59 kN/m² 62 kN/m²		35.58	1.10	Brown very silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
1										
			B 3 D 4	1.50-2.00 1.50-2.00			34.08	2.60	Soft grey slightly gravelly slightly sandy SILT with frequent cobbles. Cobbles are subangular to subrounded of siltstone.	
2										
									END	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.60m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

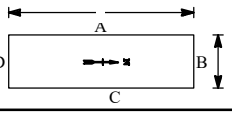
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M41
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 527,697.0 N 819,899.9
ENGINEER: Atkins Realis	**Rig:** XCMG-80
	Rev: FINAL
Ground level: 35.18m O.D.	**DATE:** 27.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							34.88	0.30	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 27 kN/m² 19mm vane 27 kN/m²				Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R2 W1 TV1 TH1 A0.	
1										
2							32.68	2.50		
									Dark grey gravelly silty medium SAND.	
3		▼1	B 3 D 4	3.00-3.50 3.00-3.50			31.68	3.50		
									END	
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. Ingress of water at 3.40m bgl. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

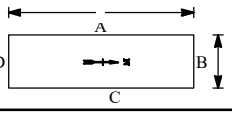
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M42
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 527,640.9 N 819,515.6
ENGINEER: Atkins Realis	**Rig:** XCMG-80
	Rev: FINAL
Ground level: 34.74m O.D.	**DATE:** 27.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							34.34	0.40	MADE GROUND: 3" and down and Clause 804 type material.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 39 kN/m² 19mm vane 39 kN/m²		33.54	1.20	Brownish grey gravelly silty medium SAND.	
1										
2									Light brown silty fine and medium SAND.	
		▼	B 3 D 4	2.50-3.00 2.50-3.00			31.74	3.00		
3									END	
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. Ingress of water at 2.80m bgl. TP terminated at 3.00m bgl. Unable to progress TP - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

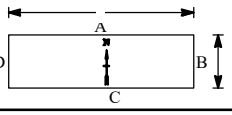
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M44**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 527,836.3 N 819,368.0**	**Rev: FINAL**
Ground level: 35.98m O.D.		**DATE: 27.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							35.58	0.40	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 84 kN/m² 19mm vane 84 kN/m²				Stiff brown slightly gravelly sandy SILT with frequent cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone.	
1										
2			B 3 D 4	2.00-2.50 2.00-2.50			33.98	2.00	Brown gravelly very silty SAND with frequent cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone.	
							33.28	2.70	**END**	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.70m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

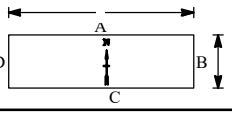
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M45**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 528,091.6 N 819,261.9**		**Rev: FINAL**
Ground level: 33.75m O.D.			**DATE: 28.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-0.90 0.50-0.90			32.85	0.90	MADE GROUND: Recovered as brown very silty very gravelly sand.	
1									Soft spongy dark brown slightly sandy pseudo fibrous PEAT. H5 B2 F2 R2 W2 TV1 TH1 A0.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2							31.05	2.70		
									Greyish brown silty very sandy medium GRAVEL with occasional cobbles. Cobbles are subangular of siltstone.	
3			B 5 D 6	3.00-3.50 3.00-3.50			30.25	3.50		
									END	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

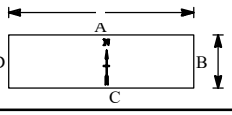
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M46**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 528,247.1 N 819,178.0**	**Rev: FINAL**
Ground level: 31.99m O.D.		**DATE: 28.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 62 kN/m²				MADE GROUND: Brown very silty sand and gravel with occasional cobbles and boulders and bricks. Cobbles are subrounded of siltstone. Boulders are subrounded of siltstone.	
1							30.29	1.70		
									Soft spongy dark brown slightly sandy pseudo fibrous PEAT. H5 B2 F2 R2 W2 TV1 TH1 A0.	
2			B 3 D 4	2.00-2.50 2.00-2.50			29.29	2.70		
									greyish brown slightly gravelly silty medium SAND.	
3			B 5 D 6	3.00-3.50 3.00-3.50			28.49	3.50		
						END				
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

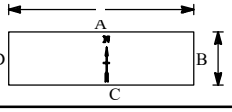
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M47**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 528,375.0 N 819,049.0**	**Rev: FINAL**
Ground level: 30.27m O.D.		**DATE: 28.5.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DK



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.20m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							29.87	0.40	TOPSOIL: Soft dark brown peaty SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 56 kN/m² 19mm vane 56 kN/m²				Brown very silty very gravelly SAND.	
1							29.07	1.20		
			B 3 D 4	1.50-2.00 1.50-2.00					Grey very silty very gravelly SAND with frequent cobbles. Cobbles are subangular to subrounded of siltstone.	
2		▼					27.87	2.40		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. Ingress of water at 2.10m bgl. TP terminated at 2.40m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

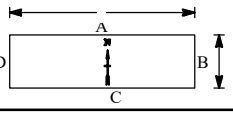
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M49**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 528,435.7 N 818,697.5**		**Rev: FINAL**
Ground level: 25.19m O.D.			**DATE: 19.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							24.69	0.50	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 84 kN/m² 86 kN/m²		23.69	1.50	Brown silty coarse SAND and medium GRAVEL with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
1										
2			B 3 D 4	2.00-2.50 2.00-2.50			22.49	2.70	Grey silty very sandy fine and medium GRAVEL with frequent cobbles. Cobbles are angular to subrounded of siltstone and sandstone.	
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 2.70m bgl. Unable to progress TP - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

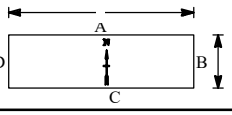
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M50**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 528,545.7 N 818,666.8
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 25.00m O.D.	**DATE: 19.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							24.60	0.40	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.40-0.80 0.40-0.80	19mm vane 65 kN/m² 68 kN/m²		24.10	0.90	Firm brown slightly sandy slightly gravelly SILT with occasional cobbles. Cobbles are subangular and subangular of siltstone and limestone.	
1			B 1 D 2	1.30-1.70 1.30-1.70			23.30	1.70	Light brown very silty very sandy medium GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to angular of limestone. Boulders are subangular to angular of limestone.	
						END				
2										
3										
4										
5										
6										
7										
8										
9										
10										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 1.70m bgl. Obstruction. TP backfilled.

Scale: 1:50

Irish drilling LTD

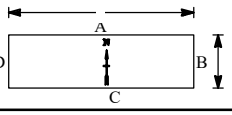
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TRIALPIT LOUGH TALT COMBINED.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M51**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 528,836.9 N 818,624.9
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 24.68m O.D.	**DATE: 18.3.25**

GROUNDWATER
Water strikes: Rose to after:
1st: 2.20m 20min 2.20m
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 2.00m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							24.38	0.30	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00					Brown silty SAND and GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of siltstone and sandstone. Gravel is medium.	
1										
			B 3 D 4	1.50-2.00 1.50-2.00						
2		▽					22.48	2.20		
							22.18	2.50	Soft grey SILT.	
			B 3 D 4	2.50-3.00 2.50-3.00					Wet grey slightly silty fine and medium SAND.	
3							21.68	3.00		
						END				
4										
5										

Remarks: Ingress of water at 2.20m bgl. TP terminated at 3.00m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

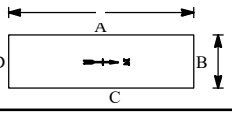
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M52**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 528,853.9 N 818,589.0
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 24.62m O.D.	**DATE: 18.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 2.50m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES	0.40-0.80					TOPSOIL: Soft dark brown peaty very sandy gravel.	
			B 1	0.40-0.80						
			D 2	0.40-0.80	19mm vane 62 kN/m² 19mm vane 62 kN/m²		23.82	0.80		
1									Brown silty very sandy fine and medium GRAVEL with frequent cobbles. Cobbles are subangular to subrounded of siltstone and sandstone.	
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2							22.52	2.10		
									Firm grey brown slightyl sandy slightly gravelly SILT with rare cobbles. Cobbles are subrounded to subangular of siltstone and sandstone.	
			B 5	2.50-3.00						
			D 6	2.50-3.00						
3							21.62	3.00		
									END	
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. Ingress of water at 2.20m bgl. TP terminated at 3.00m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

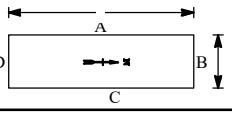
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M53**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 528,960.4 N 818,566.4**	**Rev: FINAL**
Ground level: 24.43m O.D.		**DATE: 18.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.80m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
					19mm vane 62 kN/m²		23.83	0.60	TOPSOIL: Soft dark brown peaty gravelly SILT.	
			B 1 D 2	0.60-1.00 0.60-1.00	19mm vane 62 kN/m²				Brown silty SAND and GRAVEL with frequent cobbles. Cobbles are subrounded to subangular of siltstone and sandstone. Sand is medium and coarse. Gravel is coasre.	
1							22.63	1.80		
			B 3 D 4	2.00-2.50 2.00-2.50					Grey silty very sandy fine and medium GRAVEL with frequent cobbles. Cobbles are subangular to subrounded of siltstone and sandstone.	
2							21.63	2.80		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Hand vane test at 0.60m bgl. Ingress of water at 1.80m bgl. TP terminated at 2.80m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

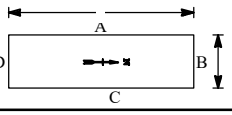
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M54**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 529,055.6 N 818,458.0**	**Rev: FINAL**
Ground level: 26.13m O.D.		**DATE: 18.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							25.63	0.50	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00					Brown silty very gravelly coarse SAND with occasional cobbles. Cobbles are subangular to rounded of siltstone.	
1										
									1.50: increase in gravel content.	
2			B 3 D 4	2.00-2.50 2.00-2.50						
							23.13	3.00		
3									**END**	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.00m bgl. Unable to progress TP - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

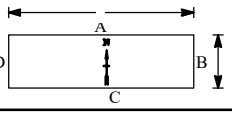
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M57
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 530,261.5 N 818,458.8
ENGINEER: Atkins Realis	**Rig:** Kubota U27-4
	Rev: FINAL
Ground level: 30.15m O.D.	**DATE:** 26.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.10m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1	0.40-0.50					Grass over dark brown silty very gravelly medium and coarse SAND. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of psammite and limestone.	
							29.45	0.70		
			B 2	0.90-1.00					Orangish brown silty coarse SAND and subangular to rounded fine to coarse psammite and limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subrounded to rounded of psammite and limestone.	
1							29.05	1.10		
									Light brown silty very sandy subrounded to rounded fine to coarse psammite and limestone GRAVEL. Sand is fine to coarse.	
2										
			B 3	2.50-2.60			27.55	2.60		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.60m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

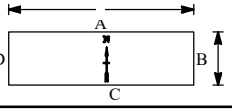
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M58
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 530,438.5 N 818,482.1
ENGINEER: Atkins Realis	**Rig:** Kubota U27-4
	Rev: FINAL
Ground level: 30.46m O.D.	**DATE:** 26.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 2.10m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							30.26	0.20	TOPSOIL: Grass over firm dark brown slightly gravelly clayey SILT with some rootlets. Gravel is subangular to subrounded fine to coarse of limestone.	
			B 1	0.50-0.60			29.76	0.70	Brown silty very gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of limestone.	
			B 2	0.80-0.90					Orangish brown silty coarse SAND and subangular to rounded fine to coarse granite psammite and limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subrounded to rounded of granite psammite and limestone.	
1										
2			B 3	2.00-2.10			28.36	2.10		
							27.76	2.70	Light brown slightly gravelly fine to coarse SAND. Gravel is subangular to rounded of psammite.	
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.70m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

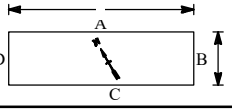
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 25/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M61**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 531,045.7 N 818,359.4**		**Rev: FINAL**
Ground level: 37.62m O.D.			**DATE: 26.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 120°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 0.20m to 0.90m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							37.42	0.20	MADE GROUND: Clause 804 type material over Terram sheeting.	
			B 1	0.40-0.50			36.72	0.90	Brown very silty very gravelly SAND with occasional cobbles and some rootlets. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of granite and limestone. Cobbles are subrounded to rounded of granite and limestone.	
1			B 2	1.40-1.50			36.12	1.50	Dark brown very silty very gravelly SAND. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of granite and limestone.	
2			B 3	2.40-2.50			35.12	2.50	Orangish brown very gravelly very silty fine to coarse SAND. Gravel is subangular to rounded of granite and limestone.	
						END				
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

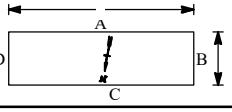
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M64**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 531,751.9 N 818,193.6**	**Rev: FINAL**
Ground level: 50.92m O.D.		**DATE: 11.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 260°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 0.30m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							50.62	0.30	Grass over dark brown silty sandy subrounded to rounded fine to coarse limestone sandstone and granite GRAVEL. Sand is fine to coarse.	
			B 1	0.50-0.60					Orangish brown silty very sandy angular to subrounded fine to coarse subrounded to rounded fine to coarse limestone sandstone and granite GRAVEL with rare cobbles and rare boulders. Sand is fine to coarse. Cobbles are subrounded to rounded of limestone sandstone and granite. Boulders are subangular of limestone sandstone and granite. Boulders are up to 300mm in length.	
1							49.82	1.10		
			B 3	1.10-1.20					Grey brown very silty very sandy subangular to subrounded fine to coarse limestone sandstone and granite GRAVEL with occasional cobbles and rare boulders. Sand is fine to coarse. Cobbles are subangular to rounded of limestone sandstone and granite. Boulders are subangular of limestone sandstone and granite. Boulders are up to 350mm in length.	
2										
			B 4	2.50-2.60			48.22	2.70		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.70m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

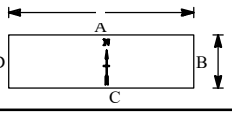
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M65**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 531,968.6 N 818,194.4**	**Rev: FINAL**
Ground level: 56.25m O.D.		**DATE: 26.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from g/l.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							56.15	0.10	MADE GROUND: Clause 804 type material over Terram sheeting.	
			B 1	0.30-0.40					Brown silty very sandy subrounded to subrounded fine to coarse psammite gneiss and limestone GRAVEL with occasional cobbles and rare boulders. Sand is fine to coarse. Cobbles are subrounded to rounded of psammite gneiss and limestone. Boulders are subrounded to rounded of psammite gneiss and limestone. Boulders are up to 350mm in length.	
1			B 2	1.10-1.20			55.05	1.20	**END**	
2										
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 1.20m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

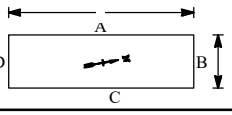
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M66**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Zaxis 26U**
ENGINEER: Atkins Realis	**E 532,138.7 N 818,186.1**	**Rev: FINAL**
Ground level: 60.09m O.D.		**DATE: 12.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 10°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							59.89	0.20	TARMAC.	
			B 1 ES 3	0.50-0.60 0.50-0.60					Light brown very silty very gravelly SAND with occasional cobbles and rare boulders. Gravel is subangular to subrounded fine to coarse granite and limestone . Sand is fine to coarse. Cobbles are subangular to rounded of granite and limestone. Boulders are subangular to rounded of granite and limestone. Boulders are up to 500mm in length.	
1										
			B 2	1.50-1.60						
2							58.09	2.00		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.00m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

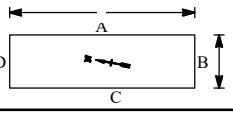
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M68**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 532,491.2 N 818,243.1**		**Rev: FINAL**
Ground level: 65.95m O.D.			**DATE: 12.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 170°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							65.85	0.10	TARMAC.	
							65.70	0.25	TARMAC.	
									MADE GROUND: Dark orangish brown and black mottled silty sandy subangular to subrounded fine to coarse limestone GRAVEL with occasional cobbles and rare boulders. Sand is fine to coarse. Cobbles are subangular to subrounded of limestone. Boulders are subrounded of limestone. Boulders are up to 500mm in length.	
			B 1	0.80-0.90			65.15	0.80		
1									Orangish brown silty SAND and subangular to rounded fine to coarse granite and limestone GRAVEL with occasional cobbles. Sand is fine to coarse. Cobbles are subangular to rounded of granite and limestone.	
			B 2	1.80-1.90						
2										
			B 3	2.60-2.70			63.25	2.70		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.70m bgl. Obstruction as services. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

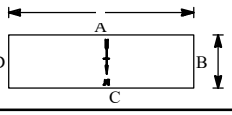
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT:** TP-M69
LOCATION: Co. Sligo/Mayo			**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 533,447.5 N 818,494.3		**Rig:** Kubota U27-4
ENGINEER: Atkins Realis			**Rev:** FINAL
Ground level: 79.91m O.D.			**DATE:** 16.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: 1.90m **20min** 1.90m
2nd:
3rd:

PIT DIRECTION: 270°
PIT DIMENSION: 3.50m * 0.50
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit slightly unstable. Sidewall collapse from 1.90m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							79.51	0.40	TOPSOIL: Grass over firm brown slightly clayey sandy SILT. Sand is fine to coarse.	
			B 1	0.50-0.60			78.81	1.10	Brownish grey silty gravelly fine to coarse SAND. Gravel is subangular to subrounded of limestone.	
1							78.01	1.90	Light grey very gravelly very silty fine to coarse SAND with rare cobbles and rare boulders. Gravel is subangular to rounded fine to coarse of limestone. Cobbles are subrounded to rounded of limestone. Boulders are subrounded to rounded of limestone. Boulders are up to 600mm in length.	
			B 2	1.50-1.60						
		▼1								
2							77.41	2.50	Greyish brown very gravelly very silty fine to coarse SAND with rare cobbles. Gravel is subangular to rounded of limestone. Cobbles are subrounded to rounded of limestone.	
			B 3	2.40-2.50						
						END				
3										
4										
5										

Remarks: Seepage of water at 1.90m bgl. TP terminated at 2.50m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

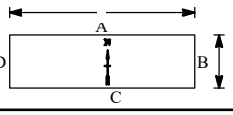
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M71**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 533,670.4 N 818,465.1**	**Rev: FINAL**
Ground level: 93.82m O.D.		**DATE: 3.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							93.42	0.40	TOPSOIL: Soft dark brown gravelly SILT with roots.	
			B 1	0.50-1.00					Light brown silty very gravelly medium and coasre SAND with rare cobbles. Cobbles are subangular to subrounded of sandstone and siltstone.	
1			D 2	0.50-1.00	19mm vane 59 kN/m² 19mm vane 62 kN/m²					
2			B 3	2.00-2.50						
			D 4	2.00-2.50						
							91.12	2.70		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.70m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

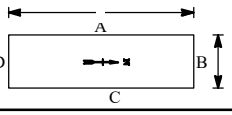
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M72**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 533,858.9 N 818,478.6**	**Rev: FINAL**
Ground level: 96.21m O.D.		**DATE: 7.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 59 kN/m² 62 kN/m²				Firm dark brown gravelly SILT with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
1							95.21	1.00		
			B 3 D 4	1.50-2.00 1.50-2.00					Brown silty SAND and GRAVEL with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and granite. Boulders are subangular to subrounded of siltstone and granite. Sand is coarse. Gravel is fine and medium.	
2										
			B 5 D 6	2.50-3.00 2.50-3.00						
3							93.21	3.00		
						END				
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 3.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

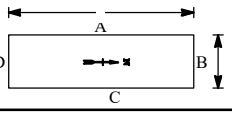
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M73**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 533,957.5 N 818,459.8**		**Rev: FINAL**
Ground level: 103.57m O.D.			**DATE: 7.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.30m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 62 kN/m² 19mm vane 62 kN/m²				Dark brown silty very sandy medium GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
							102.57	1.00		
1									Brown silty very gravelly medium and coasre SAND with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and granite. Boulders are subangular to subrounded of siltstone and granite.	
			B 3 D 4	1.50-2.00 1.50-2.00						
2							101.47	2.10		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.10m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

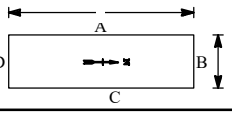
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M74**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 534,845.9 N 818,280.6**	**Rev: FINAL**
Ground level: 138.17m O.D.		**DATE: 7.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			B 1 D 2	0.50-1.00 0.50-1.00	33mm vane 27 kN/m²		137.27	0.90	Soft spongy dark brown slightly gravelly slightly sandy pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
1							136.97	1.20	Soft dark brown peaty SILT.	
2			B 3 D 4	1.50-2.00 1.50-2.00			135.87	2.30	Brown silty very gravelly medium and coarse SAND with occasional cobbles and occasional boulders. Cobbles are subangular to subrounded of siltstone and granite. Boulders are subangular to subrounded of siltstone and granite.	
						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. seepage of water at 0.20m bgl. TP terminated at 2.30m bgl. Obstruction as boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

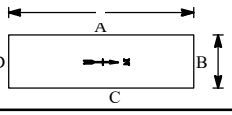
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT:** TP-M75
LOCATION: Co. Sligo/Mayo		**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 535,268.1 N 818,178.0	**Rig:** Hitachi 130
ENGINEER: Atkins Realis		**Rev:** FINAL
Ground level: 152.62m O.D.		**DATE:** 3.3.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.50m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 62 kN/m² 65 kN/m²				Firm dark brown slightly sandy slightly gravelly peaty SILT.	
							151.62	1.00		
1									Brown silty very gravelly medium and coarse SAND with occasional cobbles. Cobbles are subangular to subrounded of sandstone and siltstone.	
2			B 3 2.00-2.50 D 4 2.00-2.50							
							150.02	2.60		
									Brown gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone and sandstone.	
3			B 5 3.00-3.00 D 6 3.00-3.00							
							149.12	3.50		
							END			
4										
5										

Remarks: Hand vane test at 0.60m bgl. TP dry on excavation. TP terminated at 3.50m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

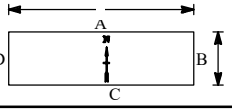
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M76**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 535,425.2 N 818,147.7
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 155.96m O.D.	**DATE: 3.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 1.00m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R1 W0 TV1 TH1 A0.	
							155.46	0.50		
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 84 kN/m² 86 kN/m²				Dark brown silty very gravelly medium and coarse SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
1							154.66	1.30		
									Brown slightly silty very gravelly coarse SAND with rare cobbles. Cobbles are subangular to subrounded of siltstone and sandstone. Gravel is fine.	
2			B 3 D 4	2.00-2.50 2.00-2.50						
							153.16	2.80		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.80m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

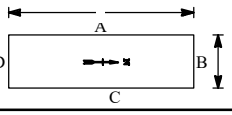
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M77
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 535,518.4 N 818,041.2
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 163.36m O.D.	**DATE:** 3.3.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							162.86	0.50	Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 77 kN/m² 19mm vane 77 kN/m²				Dark brown very silty very gravelly SAND with occasional cobbles. Cobbles are subangular of siltstone. Sand is fine to coarse.	
1										
			B 3 D 4	1.50-2.00 1.50-2.00						
2							161.36	2.00		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

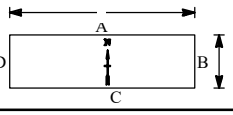
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M78**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 535,839.3 N 817,865.5
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 177.48m O.D.	**DATE: 3.3.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00		19mm vane 28 kN/m² 27 kN/m² 19mm vane 47 kN/m²					
1										
							175.68	1.80		
						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.80m bgl. Obstruction as boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

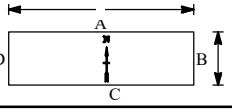
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M79**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 536,287.9 N 817,700.0**	**Rev: FINAL**
Ground level: 177.48m O.D.		**DATE: 17.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00					MADE GROUND: Firm brown slightly gravelly slightly sandy SILT.	
1							176.08	1.40		
									Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
2			B 3 D 4	2.00-2.50 2.00-2.50						
							174.58	2.90		
3									**END**	
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

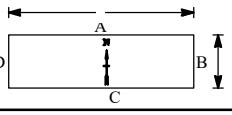
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M80**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 536,454.1 N 817,687.0**	**Rev: FINAL**
Ground level: 182.46m O.D.		**DATE: 17.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			ES 0.40-0.70 B 1 0.40-0.70 D 2 0.40-0.70		19mm vane 56 kN/m²		181.76	0.70	MADE GROUND: Brown silty very sandy medium gravel.	
1									Soft spongy dark brown slightly sandy slightly gravelly pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
2		▼	B 3 1.50-2.00 D 4 1.50-2.00				180.06	2.40		
3			B 5 3.00-3.50 D 6 3.00-3.50				178.96	3.50	Light brown silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone and sandstone.	
4						END				
5										

Remarks: Hand vane test at 0.60m bgl. Ingress of water at 2.20m bgl. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

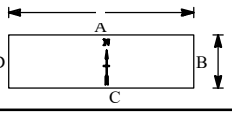
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M81**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 536,455.3 N 817,688.2**	**Rev: FINAL**
Ground level: 182.17m O.D.		**DATE: 17.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							181.57	0.60	MADE GROUND: Firm brown gravelly SILT.	
			B 1 D 2	0.60-1.00 0.60-1.00	19mm vane 27 kN/m²				Soft spongy dark brown pseudo fibrous PEAT. H4 B2 F2 R1 W0 TV1 TH1 A0.	
1							180.47	1.70		
									Light brown very silty very gravelly SAND with occasional cobbles. Cobbles are subrounded of siltstone and sandstone.	
2										
			B 3 D 4	2.50-3.00 2.50-3.00						
3							178.97	3.20		
									END	
4										
5										

Remarks: Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 3.20m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

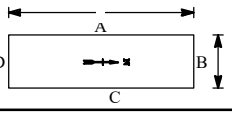
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M82**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 536,747.7 N 817,420.7**	**Rev: FINAL**
Ground level: 189.40m O.D.		**DATE: 17.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							189.10	0.30	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 27 kN/m² 19mm vane 27 kN/m²				Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
1							188.10	1.30		
			B 3 D 4	1.50-2.00 1.50-2.00					Light brown very silty SAND and GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of sandstone and siltstone.	
2							187.10	2.30		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

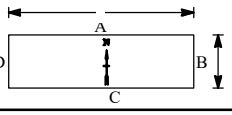
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M83**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 536,898.9 N 817,175.1**	**Rev: FINAL**
Ground level: 189.54m O.D.		**DATE: 24.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES	0.50-1.00					MADE GROUND: Dark brown silty sand and gravel with occasional cobbles. Cobbles are subrounded to subangular of siltstone.	
			B 1	0.50-1.00						
			D 2	0.50-1.00						
1										
							188.04	1.50		
			B 3	1.50-2.00					Light orange brown silty SAND and GRAVEL with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone. Sand is coarse. Gravel is medium.	
			D 4	1.50-2.00						
2										
							187.24	2.30		
						END				
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.30m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

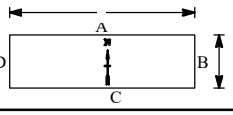
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M84**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCMG-80**
ENGINEER: Atkins Realis	**E 537,101.8 N 816,953.1**	**Rev: FINAL**
Ground level: 184.56m O.D.		**DATE: 25.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 59 kN/m² 19mm vane 59 kN/m²				Brown silty very gravelly coarse SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
1										
							183.06	1.50		
			B 3 D 4	1.50-2.00 1.50-2.00					Brown silty SAND and GRAVEL with frequent cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone. Boulders are subrounded of granite. Sand is coarse. Gravel is medium.	
2										
							182.06	2.50		
									END	
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

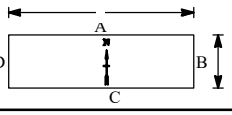
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M85
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 537,286.3 N 816,692.8
ENGINEER: Atkins Realis	**Rig:** XCM6-80
	Rev: FINAL
Ground level: 177.51m O.D.	**DATE:** 25.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									MADE GROUND: Soft brown slightly sandy peaty SILT with cobbles. Cobbles are subangular to subrounded of siltstone.	
			B 1 D 2	0.50-1.00 0.50-1.00						
1										
2							175.31	2.20		
									Brown silty SAND and GRAVEL with occasional cobbles and rare boulders. Cobbles are subangular to subrounded of siltstone and sandstone. Boulders are subrounded of granite. Sand is coarse. Gravel is medium.	
			B 3 D 4	2.50-3.00 2.50-3.00						
3							174.01	3.50		
									END	
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.50m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

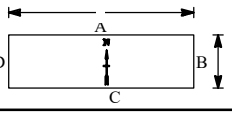
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M86**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 537,490.8 N 816,487.7**
ENGINEER: Atkins Realis	**Rig: XCM6-80**
	Rev: FINAL
Ground level: 173.11m O.D.	**DATE: 27.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							172.71	0.40	MADE GROUND: Gravel/stone fill.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 62 kN/m² 19mm vane 62 kN/m²				Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R2 W1 TV1 TH1 A0.	
1										
2										
			B 3 D 4	2.50-3.00 2.50-3.00						
3							169.51	3.60		
						END				
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 3.60m bgl - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

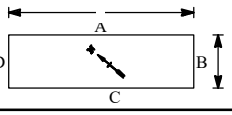
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M88**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 537,927.0 N 816,202.6**	**Rev: FINAL**
Ground level: 182.71m O.D.		**DATE: 26.6.25**

GROUNDWATER
Water strikes:
1st: 0.70m **Rose to after: 20min** **0.70m**
2nd:
3rd:

PIT DIRECTION: 140°
PIT DIMENSION: 2.00m * 0.60
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 0.70m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Grass over dark brown silty very sandy fine and medium GRAVEL with rare cobbles. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of granite schist and limestone. Cobbles are subangular to rounded of granite schist and limestone.	
			B 1 ES 2	0.40-0.50 0.40-0.50						
		▽1					182.01	0.70		
1									Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W1 TV1 TH1 A1.	
			B 3	1.40-1.50						
2										
			B 4	2.40-2.50			180.21	2.50		
						END				
3										
4										
5										

Remarks: Seepage of water at 0.70m bgl. TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

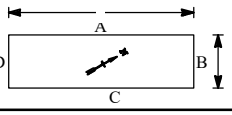
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt			**TRIALPIT: TP-M89**
LOCATION: Co. Sligo/Mayo			**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**		**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 538,112.1 N 816,104.2**		**Rev: FINAL**
Ground level: 182.25m O.D.			**DATE: 19.6.25**

GROUNDWATER
Water strikes:
1st: 0.90m **Rose to after: 20min 0.90m**
2nd:
3rd:

PIT DIRECTION: 30°
PIT DIMENSION: 3.70m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 2.00m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							182.17	0.08	TARMAC.	
							182.00	0.25	TARMAC.	
			B 1	0.50-0.60					Greyish brown silty very sandy angular to subangular fine to coarse limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subangular to subrounded of limestone.	
		▽1					181.35	0.90		
1									Soft spongy dark brown pseudo fibrous PEAT. H6 B2 F2 R1 W0 TV1 TH1 A1.	
			B 2	1.50-1.60						
2							179.75	2.50		
									END	
3										
4										
5										

Remarks: Seepage of water at 0.90m bgl. TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

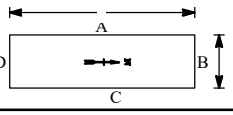
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M91**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 538,431.1 N 816,013.2**	**Rev: FINAL**
Ground level: 174.96m O.D.		**DATE: 23.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							174.76	0.20	ASPHALT: 2 No layers of asphalt.	
							174.56	0.40	MADE GROUND: Clause 804 type material.	
1			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 62 kN/m² 19mm vane 62 kN/m²				Brown slightly silty sandy fine and medium GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
2							172.96	2.00	**END**	
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 2.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

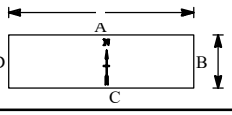
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M92**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 538,729.5 N 815,947.8**
ENGINEER: Atkins Realis	**Rig: XCM6-80**
	Rev: FINAL
Ground level: 161.08m O.D.	**DATE: 23.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0			ES	0.40-0.80	19mm vane 27 kN/m²		160.38	0.70	Spongy dark brown pseudo fibrous PEAT. H5 B2 F2 R1 W0 TV1 TH1 A0.	
1			B 1 D 2	0.80-1.30 0.80-1.30			159.28	1.80	Grey very silty very gravelly SAND with occasional cobbles. Cobbles are subangular to subrounded of siltstone.	
2						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Seepage of water at 1.80m bgl. TP terminated at 1.80m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

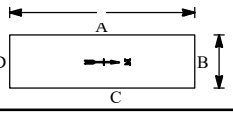
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M93**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XCM6-80**
ENGINEER: Atkins Realis	**E 538,907.1 N 815,921.5**	**Rev: FINAL**
Ground level: 153.38m O.D.		**DATE: 23.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							153.18	0.20	ASPHALT: 2 No layers of asphalt.	
							152.88	0.50	MADE GROUND: Clause 804 type material.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 84 kN/m²				Brown silty very gravelly SAND with occasional cobbles and rare boulders.	
1							152.08	1.30		
						END				
2										
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.30m bgl. Obstruction as boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

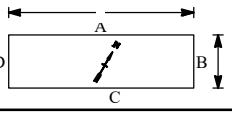
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M94
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 539,477.1 N 815,758.9
ENGINEER: Atkins Realis	**Rig:** XCM6-80
	Rev: FINAL
Ground level: 137.82m O.D.	**DATE:** 23.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: 2.40m 20min 2.10m
2nd:
3rd:

PIT DIRECTION: 60°
PIT DIMENSION: 3.50m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							137.72	0.10	ASPHALT.	
							137.52	0.30	MADE GROUND: Clause 804 type material.	
			B 1	0.60-0.70			136.62	1.20	Brown silty very sandy subrounded to rounded limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subrounded to rounded of limestone. Cobbles are subrounded to rounded of limestone.	
1										
			D 2	1.60-1.70			135.82	2.00	Brown slightly gravelly silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of limestone.	
2		1								
			B 3	2.30-2.40			135.42	2.40	Brown gravelly very silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of limestone.	
						END				
3										
4										
5										

Remarks: Ingress of water at 2.40m bgl. TP terminated at 2.40m bgl. Unable to progress TP - to ingress of water. TP backfilled.

Scale: 1:25

Irish drilling LTD

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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M95
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 539,627.8 N 815,618.0
ENGINEER: Atkins Realis	**Rig:** Kubota U27-4
	Rev: FINAL
Ground level: 137.73m O.D.	**DATE:** 24.6.25

GROUNDWATER

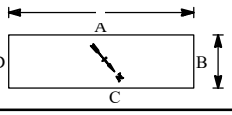
Water strikes: **Rose to after:**

1st:	**1.20m**	**20min**	**1.10m**
2nd:	**1.90m**	**20min**	**1.60m**
3rd:			

PIT DIRECTION: 310°

PIT DIMENSION: 3.00m * 1.00

LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 0.60m to 1.20m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							137.63	0.10	TARMAC.	
							137.48	0.25	MADE GROUND: Brown silty sandy subangular to subrounded fine to coarse limestone GRAVEL. Sand is fine to coarse.	
							137.13	0.60	Light brown gravelly fine to coarse SAND with rare cobbles. Gravel is subrounded to rounded fine to coarse of limestone. Cobbles are subrounded to rounded subrounded to rounded of limestone.	
			B 1	0.60-0.70						
			B 2	0.90-1.00			136.53	1.20	Brownish grey slightly silty fine to coarse SAND and medium GRAVEL.	
1		1								
		2	B 3	1.50-1.60			136.03	1.70	Firm light brown thinly laminated orangish brown slightly gravelly sandy SILT.	
		3	B 4	1.80-1.90			135.83	1.90	Greyish brown gravelly very silty fine to coarse SAND.	
2									**END**	
3										
4										
5										

Remarks: Ingress of water at 1.20m bgl. Ingress of water at 1.90m bgl. TP terminated at 1.90m bgl. Unable to progress TP - sidewall collapse. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

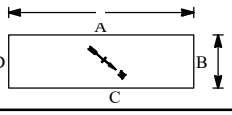
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M96**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 539,727.6 N 815,524.7**	**Rev: FINAL**
Ground level: 138.85m O.D.		**DATE: 24.6.25**

GROUNDWATER
Water strikes:
1st: 0.90m **Rose to after: 20min 0.90m**
2nd:
3rd:

PIT DIRECTION: 320°
PIT DIMENSION: 2.00m * 0.80
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit unstable. Sidewall collapse from 0.10m to 0.90m bgl.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							138.75	0.10	TOPSOIL: Grass over firm dark brown sandy SILT. Sand is fine to coarse.	
			B 1	0.50-0.60					MADE GROUND: Brown slightly silty slightly sandy subangular to rounded schist and limestone COBBLES with occasional boulders and rare large boulders. Sand is fine to coarse. Boulders are subangular to subrounded of schist and limestone. Large boulders are subangular to subrounded of schist and limestone. Boulders are up to 650mm in length.	
		11					137.95	0.90		
1									Dark brown slightly organic silty gravelly medium SAND. Sand is fine to coarse.	
			B 2	1.20-1.30			137.55	1.30		
									END	
2										
3										
4										
5										

Remarks: Seepage of water at 0.90m bgl. TP terminated at 1.30m bgl. Obstruction as possible rock or large boulder. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

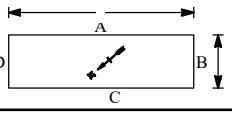
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M97
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 539,932.9 N 815,330.4
ENGINEER: Atkins Realis	**Rig:** Kubota U27-4
	Rev: FINAL
Ground level: 139.72m O.D.	**DATE:** 24.6.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: 1.60m **20min** 1.60m
2nd:
3rd:

PIT DIRECTION: 220°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							139.62	0.10	TARMAC.	
							139.57	0.15	TARMAC.	
							139.42	0.30	MADE GROUND: Clause 804 type material.	
			B 1	0.50-0.60			138.92	0.80	Light brown silty SAND and subangular to subrounded fine to coarse limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are rounded of limestone.	
1			B 2	0.90-1.00			138.62	1.10	Dark brown very silty very sandy fine and medium GRAVEL with some plant material.	
			B 3	1.30-1.40			138.12	1.60	Light greyish brown very gravelly very silty fine to coarse SAND. Gravel is subangular to rounded fine to coarse of limestone.	
		11							END	
2										
3										
4										
5										

Remarks: Seepage of water at 1.60m bgl. TP terminated at 1.60m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

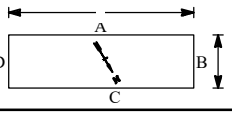
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M98**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 540,058.1 N 815,239.3 — **Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**Rev: FINAL**
Ground level: 140.11m O.D.	**DATE: 24.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 300°
PIT DIMENSION: 2.00m * 0.50
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							139.91	0.20	TOPSOIL: Grass over firm dark brown gravelly SILT. Gravel is angular to subangular fine to coarse of limestone.	
			B 1 ES 2	0.30-0.40 0.30-0.40			139.61	0.50	Greyish brown silty very gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of schist and limestone.	
1			B 3	1.30-1.40			138.61	1.50	Orangish brown mottled silty very sandy GRAVEL and subangular to subrounded schist and limestone COBBLES with rare boulders. Sand is fine to coarse. Gravel is angular to subrounded of schist and limestone. Boulders are subangular to subrounded of schist and limestone. Boulders are up to 600mm in length.	
									END	
2										
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 1.50m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

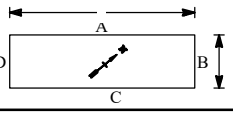
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-M99**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 540,266.2 N 815,075.0**
ENGINEER: Atkins Realis	**Rig: Kubota U27-4**
	Rev: FINAL
Ground level: 140.70m O.D.	**DATE: 24.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 40°
PIT DIMENSION: 2.70m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							140.62	0.08	TARMAC.	
									TARMAC.	
							140.35	0.35		
									MADE GROUND: Clause 804 type material.	
			B 1	0.50-0.60			140.15	0.55		
1									Light brown very silty very gravelly SAND with rare cobbles and rare boulders. Sand is fine to coarse. Cobbles are subangular to subrounded of limestone. Boulders are subrounded of limestone. Boulders are up to 500mm in length. Gravel is subangular to subrounded fine to coarse limestone.	
							139.35	1.35		
			B 2	1.50-1.60					Firm light brown slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded of limestone.	
2							138.60	2.10		
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.10m bgl. Obstruction as boulders. TP backfilled with arisings.

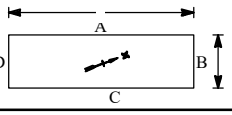
Scale: 1:25

Irish drilling LTD

Ph.
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M100
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 540,504.9 N 814,873.0
ENGINEER: Atkins Realis	**Rig:** Kubota U27-4
Ground level: 140.94m O.D.	**Rev:** FINAL
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd: Rose to after:	**DATE:** 25.6.25
PIT DIRECTION: 20°	Shoring/Support: N/A
PIT DIMENSION: 3.20m * 1.00	Stability: Pit stable.
LOGGED BY: PC	



Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							140.84	0.10	TARMAC.	
							140.79	0.15	TARMAC.	
			B 1	0.50-0.60			140.14	0.80	Light brown silty sandy subangular to rounded fine to coarse schist and limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subangular to rounded of schist and limestone.	
1							139.14	1.80	Damp brown silty very sandy medium GRAVEL. Sand is fine to coarse.	
			B 2	1.50-1.60						
2			B 3	2.00-2.10			138.54	2.40	Light grey very silty very gravelly fine to coarse SAND with occasional cobbles and occasional boulders. Gravel is subangular to subrounded fine to coarse of schist and limestone. Cobbles are subangular to subrounded of schist and limestone. Boulders are subangular of schist and limestone. Boulders are up to 500mm in length.	
									END	
3										
4										
5										

Remarks: TP dry on excavation. TP terminated at 2.40m bgl. Obstruction as boulders. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

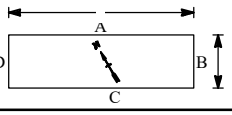
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M101**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Kubota U27-4**
ENGINEER: Atkins Realis	**E 540,326.3 N 814,478.1**	**Rev: FINAL**
Ground level: 138.34m O.D.		**DATE: 25.6.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 120°
PIT DIMENSION: 3.50m * 1.00
LOGGED BY: PC



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							138.22	0.12	TARMAC.	
							138.09	0.25	TARMAC.	
									Brown silty sandy subangular to subrounded fine to coarse schist and limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subangular to rounded of schist and limestone.	
			B 1	0.60-0.70			137.74	0.60		
1									Brown silty very sandy subrounded to rounded fine to coarse schist and limestone GRAVEL with rare cobbles. Sand is fine to coarse. Cobbles are subrounded to rounded of schist and limestone.	
			B 2	1.60-1.70						
2										
			B 3	2.60-2.70						
3							135.34	3.00		
							END			
4										
5										

Remarks: TP dry on excavation. TP terminated at 3.00m bgl - maximum reach of excavator. TP backfilled with arisings.

Scale: 1:25

Irish drilling LTD

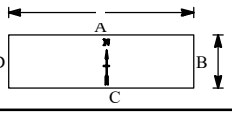
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-M102**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: XE55E**
ENGINEER: Atkins Realis	**E 525,113.7 N 821,118.4**	**Rev: FINAL**
Ground level: 18.78m O.D.		**DATE: 5.11.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							18.48	0.30	MADE GROUND: Road fill. Clause 804 type material/stone.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 95 kN/m² 19mm vane 98 kN/m²				Stiff brown slightly gravelly sandy SILT with occasional cobbles and rare boulders. Cobbles are subrounded to subangular of siltstone. Boulders are subrounded to subangular of siltstone.	
1										
			B 3 D 4	1.50-2.00 1.50-2.00						
2							16.38	2.40		
									END	
3										
4										
5										

Remarks: DCP completed. Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.40m bgl. Obstruction as boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

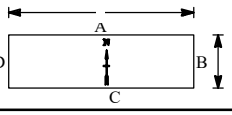
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-M103
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 525,235.1 N 821,042.3
ENGINEER: Atkins Realis	**Rig:** XE55E
	Rev: FINAL
Ground level: 5.02m O.D.	**DATE:** 7.11.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							4.82	0.20	TOPSOIL: Soft dark brown gravelly SILT.	
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 59 kN/m² 19mm vane 59 kN/m²		3.82	1.20	Brown slightly sandy silty medium GRAVEL with occasional cobbles and rare boulders. Cobbles are angular to subangular of limestone. Boulders are angular to subangular of limestone.	
1									END	
2										
3										
4										
5										

Remarks: DCP completed. Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.20m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

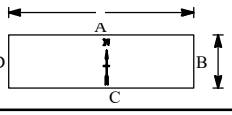
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-R01
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 536,260.9 N 817,618.2
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 181.07m O.D.	**DATE:** 25.2.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			B 1 D 2	0.50-1.00 0.50-1.00	19mm vane 27 kN/m²				Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F1 R1 W0 TV1 TH1 A0.	
1										
2			B 3 D 4	2.00-2.50 2.00-2.50			179.27	1.80	Brown gravelly very silty medium SAND with occasional cobbles. Cobbles are subangular of siltstone and granite.	
3							177.97	3.10	**END**	
4										
5										

Remarks: Percolation test expedited in TP. Hand vane test at 0.60m bgl. Ingress of water at 0.40m bgl. TP terminated at 3.10m bgl. Unable to keep TP open - sidewall collapse. TP backfilled.

Scale: 1:25

Irish drilling LTD

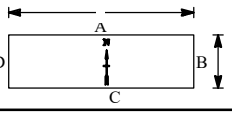
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-R02**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 536,407.8 N 817,470.3
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 203.82m O.D.	**DATE: 24.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
							203.22	0.60	Spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R1 W0 TV1 TH1 A0.	
			ES	0.60-1.00						
			B 1	0.60-1.00					Brown very silty very gravelly medium SAND with occasional cobbles. Cobbles are subangular of granite.	
			D 2	0.60-1.00	19mm vane 59 kN/m² 62 kN/m²					
1										
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2							201.72	2.10		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 2.10m bgl. Obstruction as boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

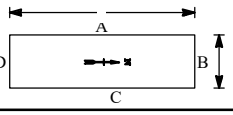
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-R03**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 536,367.5 N 817,463.6**	**Rev: FINAL**
Ground level: 201.47m O.D.		**DATE: 24.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0							201.07	0.40	Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R2 W0 TV1 TH1 A0.	
			ES	0.50-1.00					Brown very silty very gravelly medium SAND with occasional cobbles and rare boulders. Cobbles are subangular of siltstone. Boulders are subangular of granite.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 74 kN/m²					
1					19mm vane 77 kN/m²					
					19mm vane 104 kN/m²		199.87	1.60		
									Brown very silty very gravelly medium SAND with occasional cobbles and rare boulders. Cobbles are subangular of granite. Boulders are subangular of granite.	
2			B 3	2.00-2.50						
			D 4	2.00-2.50						
3							198.37	3.10		
									END	
4										
5										

Remarks: Hand vane test at 0.70m bgl. Hand vane test at 0.80m bgl. TP dry on excavation. TP terminated at 3.10m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

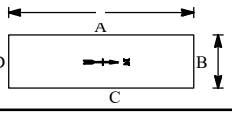
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT:** TP-R04
LOCATION: Co. Sligo/Mayo	**Sheet** 1 of 1
CLIENT: Irish Water	**Co-ordinates:** E 536,433.4 N 817,408.7
ENGINEER: Atkins Realis	**Rig:** Hitachi 130
	Rev: FINAL
Ground level: 209.75m O.D.	**DATE:** 24.2.25

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit stable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES	0.50-1.00					Soft spongy dark brown pseudo fibrous PEAT. H5 B2 F3 R2 W0 TV1 TH1 A0.	
			B 1	0.50-1.00						
			D 2	0.50-1.00	19mm vane 59 kN/m² 19mm vane 29 kN/m²		209.25	0.50		
1									Firm brown slightly gravelly sandy SILT with occasional cobbles. Cobbles are subangular of granite.	
			B 3	1.50-1.80						
			D 4	1.50-1.80						
							207.95	1.80		
2						END				
3										
4										
5										

Remarks: Hand vane test at 0.60m bgl. Hand vane test at 0.70m bgl. TP dry on excavation. TP terminated at 1.80m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

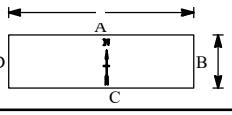
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-T01**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 540,394.1 N 814,315.2
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 129.42m O.D.	**DATE: 26.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									MADE GROUND: Recovered as subangular siltstone COBBLES and BOULDERS with greyish brown silty sandy coarse GRAVEL and Terram.	
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00							
		▼					128.42	1.00		
1						END				
2										
3										
4										
5										

Remarks: Ingress of water at 0.90m bgl. TP terminated at 1.00m bgl. Obstruction as granite rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

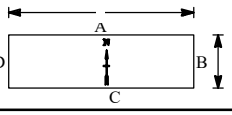
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-T02**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 540,435.8 N 814,287.3**
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 126.60m O.D.	**DATE: 27.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.50-1.00 B 1 0.50-1.00 D 2 0.50-1.00						MADE GROUND: Pea gravel over subangular siltstone COBBLES and BOULDERS with greyish brown silty sandy medium and coarse GRAVEL.	
1		▼								
							125.10	1.50		
						END				
2										
3										
4										
5										

Remarks: Percolation test expedited in TP. Ingress of water at 1.30m bgl. TP terminated at 3.10m bgl. Obstruction as rock. TP backfilled.

Scale: 1:25

Irish drilling LTD

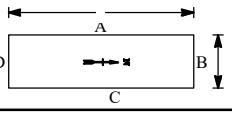
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-T03**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:** E 540,435.7 N 814,256.7 — **Rig: Hitachi 130**
ENGINEER: Atkins Realis	**Rev: FINAL**
Ground level: 124.46m O.D.	**DATE: 26.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit slightly unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES B 1 D 2	0.50-1.00 0.50-1.00 0.50-1.00					MADE GROUND: Greyish brown very silty very sandy GRAVELwith frequent cobbles and frequent boulders. Cobbles are subangular of granite. Boulders are subangular of granite.	
1							123.16	1.30		
									Brown silty very sandy fine and medium GRAVEL with occasional cobbles. Cobbles are subangular to subrounded of siltstone and sandstone. Sand is coarse.	
2			B 3 D 4	2.00-2.50 2.00-2.50						
3										
4			B 5 D 6	4.00-4.50 4.00-4.50			119.96	4.50		
									END	
5										

Remarks: TP dry on excavation. TP terminated at 4.50m bgl. On REs instruction - maximum reach of excavator. TP backfilled.

Scale: 1:25

Irish drilling LTD

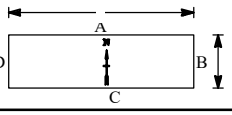
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**TRIALPIT: TP-T04**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 540,526.0 N 814,249.6**
ENGINEER: Atkins Realis	**Rig: Hitachi 130**
	Rev: FINAL
Ground level: 123.42m O.D.	**DATE: 26.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 90°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0									Brown very silty SAND and GRAVEL with occasional cobbles and rare boulders. Cobbles are subangular of granite. Boulders are subangular of granite.	
			ES	0.50-1.00	19mm vane 89 kN/m²					
			B 1	0.50-1.00						
			D 2	0.50-1.00						
1							122.12	1.30		
									Brown very silty very gravelly medium SAND with frequent cobbles. Cobbles are subangular of granite.	
			B 3	1.50-2.00						
			D 4	1.50-2.00						
2							121.32	2.10		
						END				
3										
4										
5										

Remarks: Hand vane test at 0.50m bgl. Ingress of water at 0.20m bgl. TP terminated at 2.10m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

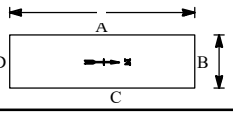
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt		**TRIALPIT: TP-WH01**
LOCATION: Co. Sligo/Mayo		**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates:**	**Rig: Hitachi 130**
ENGINEER: Atkins Realis	**E 517,383.5 N 816,744.5**	**Rev: FINAL**
Ground level: 10.06m O.D.		**DATE: 21.2.25**

GROUNDWATER
Water strikes: **Rose to after:**
1st: dry
2nd:
3rd:

PIT DIRECTION: 0°
PIT DIMENSION: 3.00m * 1.00
LOGGED BY: DOR



Shoring/Support: N/A
Stability: Pit unstable.

Depth (m)	Date	Water	Samples	Depth (m)	SPT (N) / In Situ Vane Tests	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION	Instrument/ Backfill
0										
			ES 0.50-0.90 B 1 0.50-0.90 D 2 0.50-0.90						Soft wet brown slightly sandy slightly gravelly SILT with frequent cobbles and frequent boulders. Cobbles are rounded of siltstone. Boulders are subangular of limestone. Boulder is 1300 x 600 x 450mm in size.	
							9.16	0.90		
1									Stiff wet brown slightly gravelly slightly sandy SILT with cobbles. Cobbles are subangular and subrounded limestone.	
			B 3 1.50-2.00 D 4 1.50-2.00							
2							8.06	2.00		
						END				
3										
4										
5										

Remarks: Ingress of water at 0.60m bgl. TP terminated at 2.00m bgl. Obstruction as possible boulders. TP backfilled.

Scale: 1:25

Irish drilling LTD

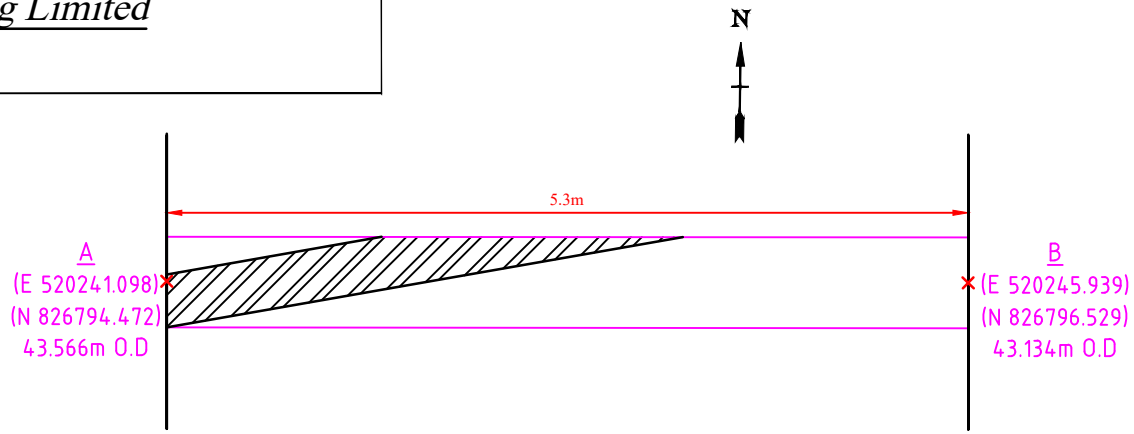
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TRIALPIT LOUGH TALT LOT1 TPS ALL FILE W COORDS OCT 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Appendix 4
Slit Trench Records

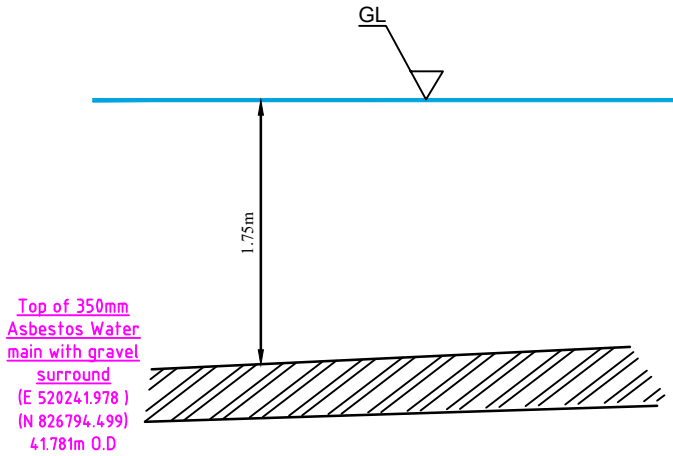
ST-FW01 (Lough Talt) 13/02/2025 Scale : 1:50
Irish Drilling Limited

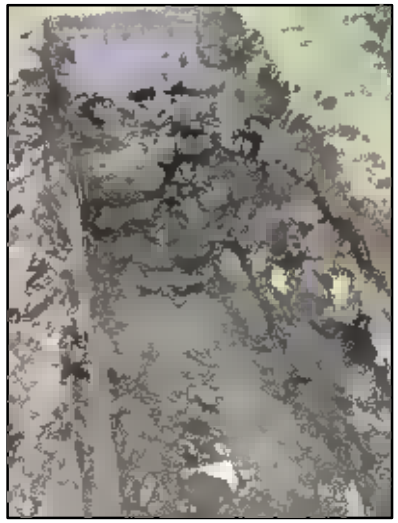
Plan





Section





Trench Dimensions:

Length of Trench: 5.20m
Width of Trench: 1.20m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

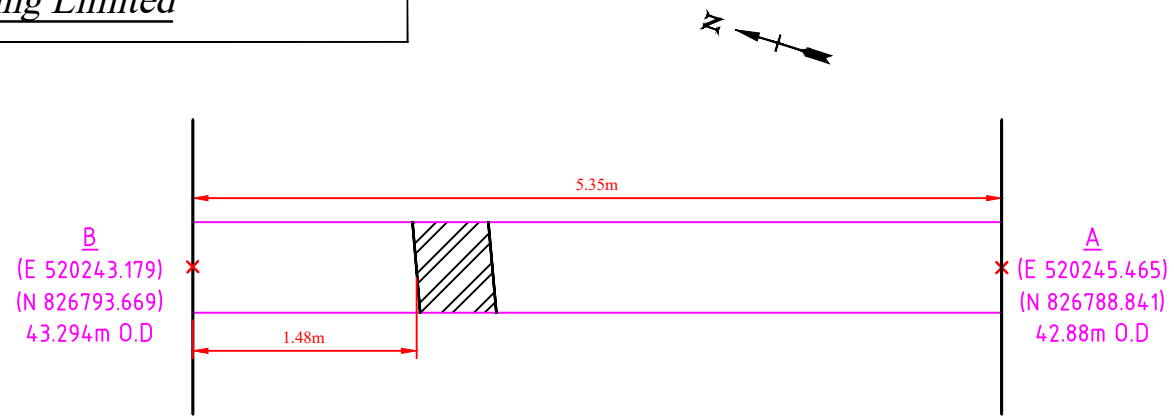
Trench Stable
Trench Dry

Ground Conditions:

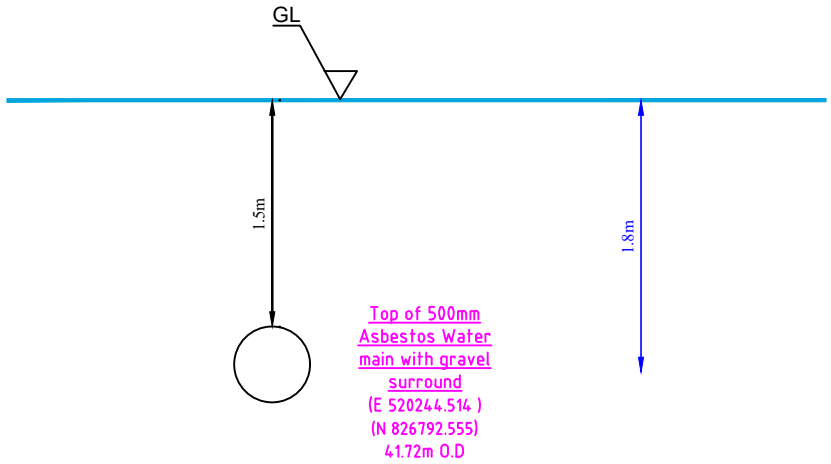
GL-0.20 : Soft dark brown gravelly SILT
0.20-2.50 : Stiff brown gravelly SILT with a high cobble content
Cobbles are angular to sub-angular of limestone

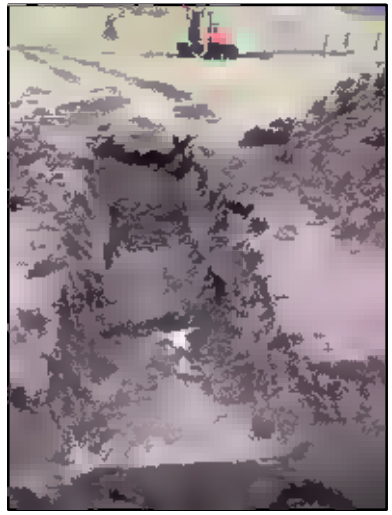
ST-FW-01A (Lough Talt) 13/02/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 5.35m
Width of Trench: 1.20m
Depth of Trench: 1.80m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

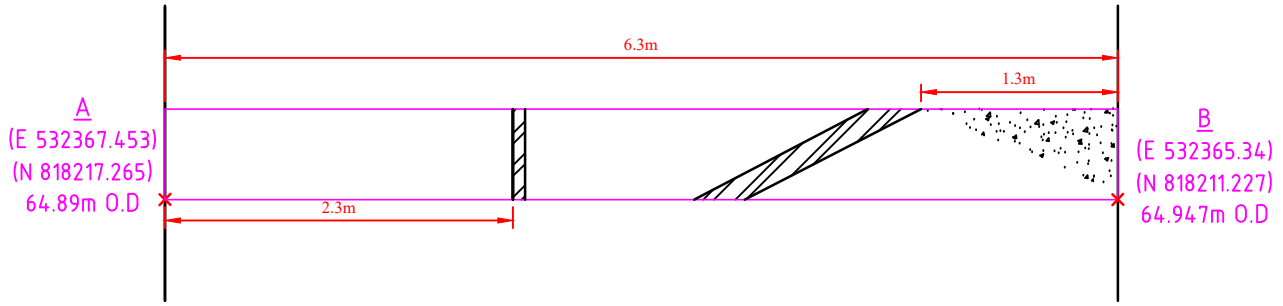
Trench Stable
Trench Dry

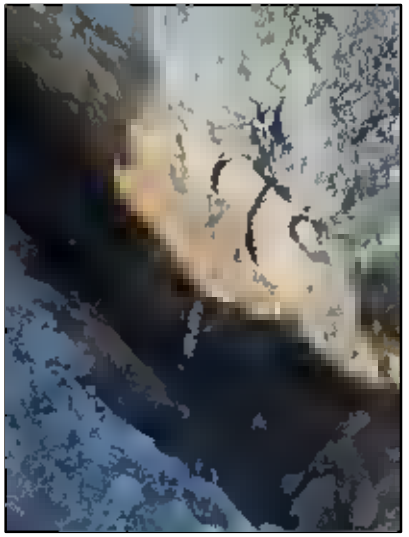
Ground Conditions:

GL-0.20 : Soft dark brown gravelly SILT
0.20-1.80 : Stiff brown gravelly SILT with a medium cobble content
Cobbles are angular to sub-angular limestone

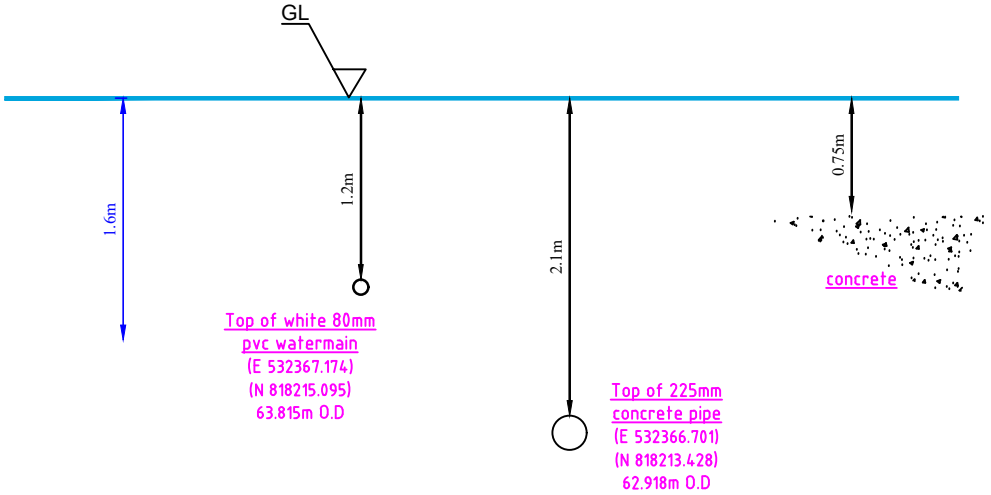
ST-FW17 (Lough Talt) 17/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 6.30m
Width of Trench: 1.00m
Depth of Trench: 2.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.70-1.80m

Notes:

Backfill : Bitumen and 804

Remarks:

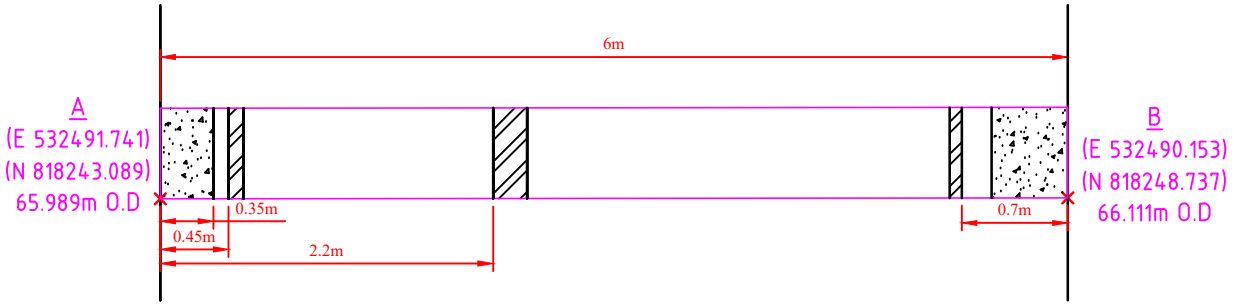
Trench Stable
Trench Dry

Ground Conditions:

GL-0.14 : Bitumen
0.14-0.20 : Tarmac
0.20-0.35 : 804
0.35-0.80 : Dark grey GRAVEL/COBBLES
Gravel content is fine to coarse angular to sub-angular
Cobbles are angular to sub-angular
0.80-2.10: Brown silty sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse angular to sub-angular

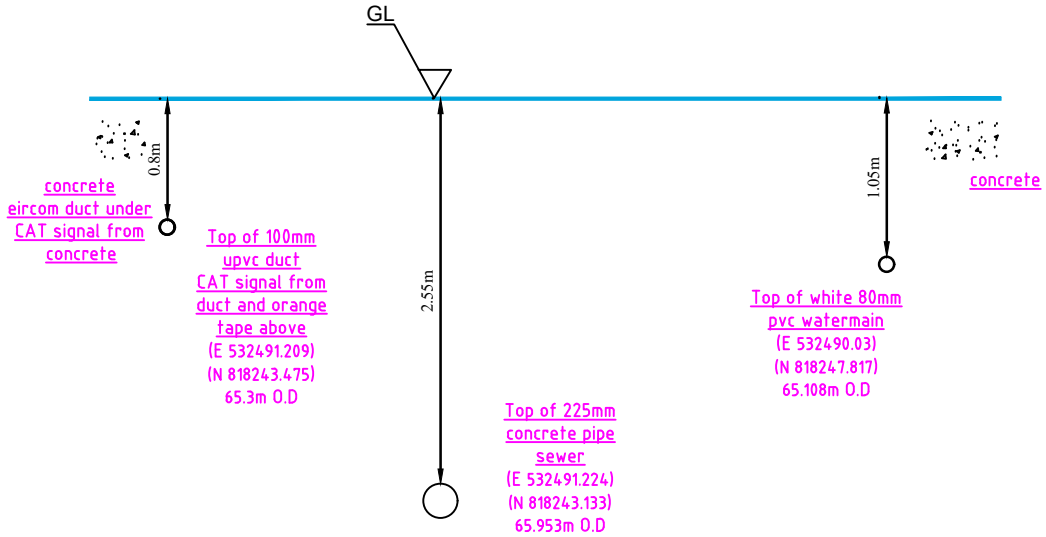
ST-FW18 (Lough Talt) 12/06/2025 Scale : 1:50
Irish Drilling Limited

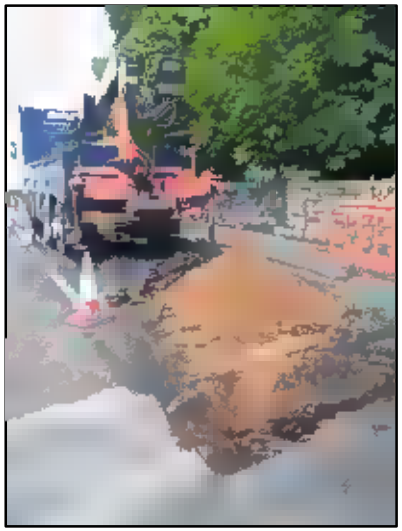
Plan





Section





Trench Dimensions:
Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 2.70m

Logged by: PC

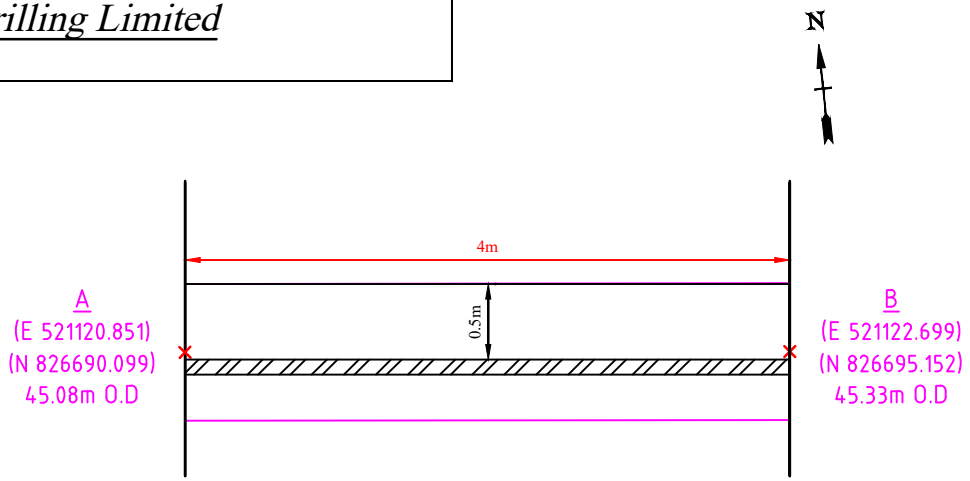
Notes:
Backfill : Bitumen and 804

Remarks:
Trench Stable
Trench Dry

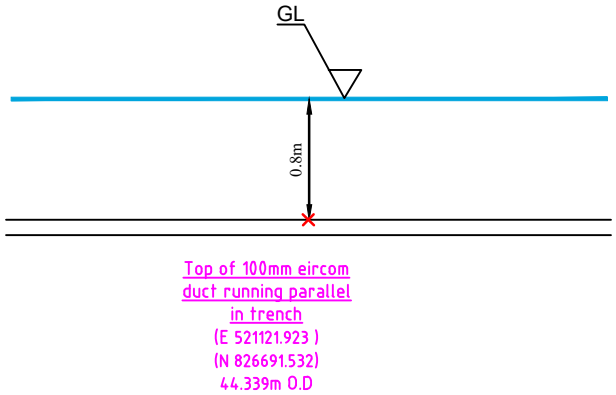
Ground Conditions:
GL-0.10 : Bitumen
0.10-0.25 : Tarmac
0.25-0.80 : Dark orange brown mottled black silty SAND/GRAVEL
0.80-2.70 : Orange brown very sandy GRAVEL

ST-TEL01 (Lough Talt) 27/03/2025 Scale : 1:50
Irish Drilling Limited

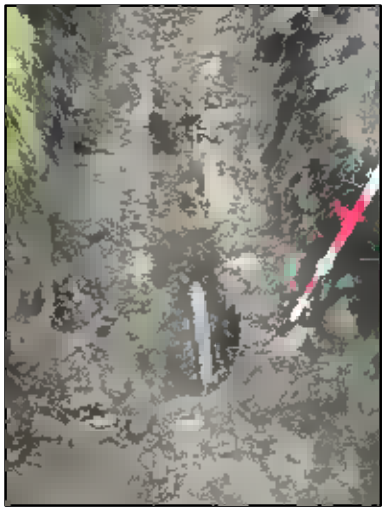
Plan



Section







Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.20m
Depth of Trench: 1.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

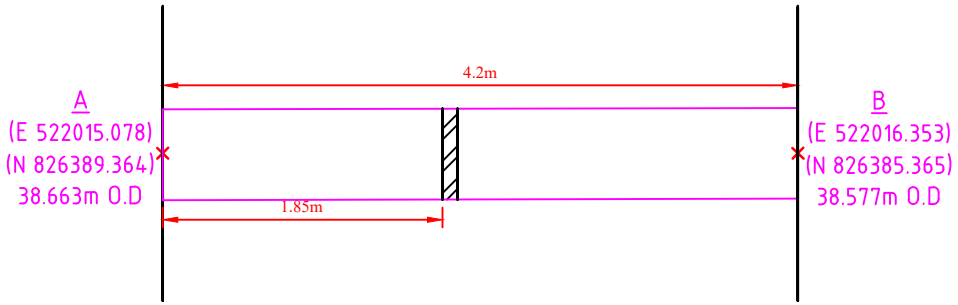
Trench Stable
Trench Dry

Ground Conditions:

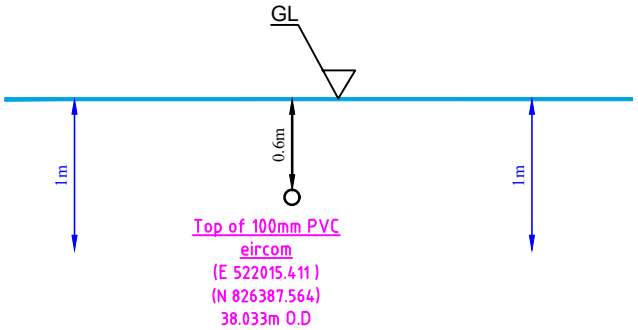
GL-1.20 : Soft dark brown gravelly SILT with cobbles

ST-TEL02 (Lough Talt) 31/03/2025 Scale : 1:50
Irish Drilling Limited

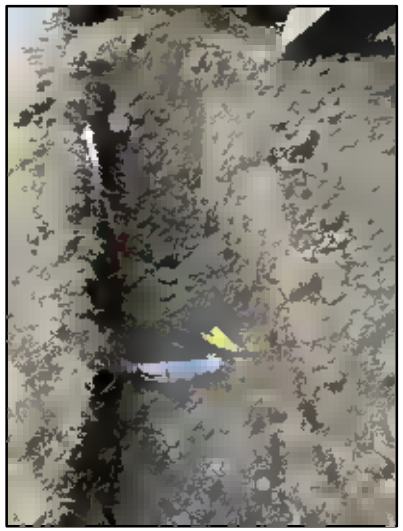
Plan



Section







Trench Dimensions:

Length of Trench: 4.10m
Width of Trench: 1.00m
Depth of Trench: 1.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

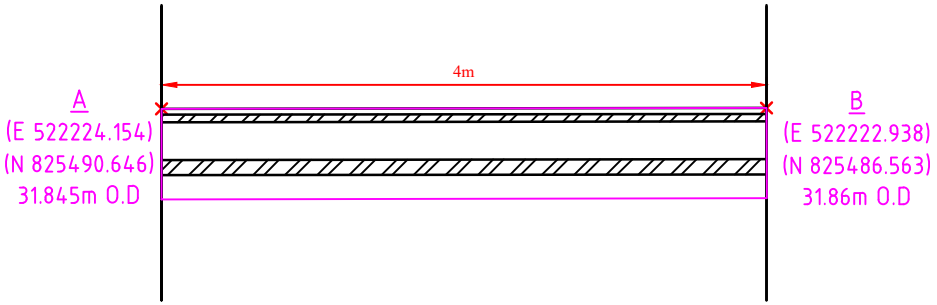
Trench Stable
Trench Dry

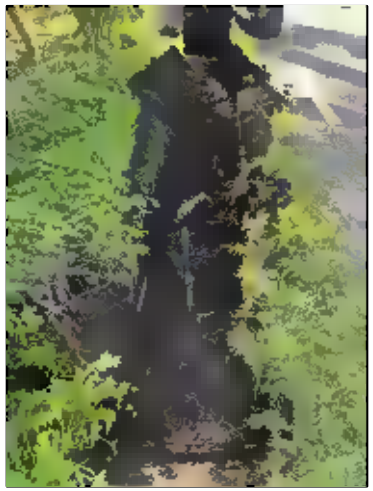
Ground Conditions:

GL-0.40 : Made Ground
0.40-1.00 : Brown firm gravelly SILT with a high cobble content
Cobbles are angular to sub-angular of limestone
1.00 : Probable ROCK (Limestone)

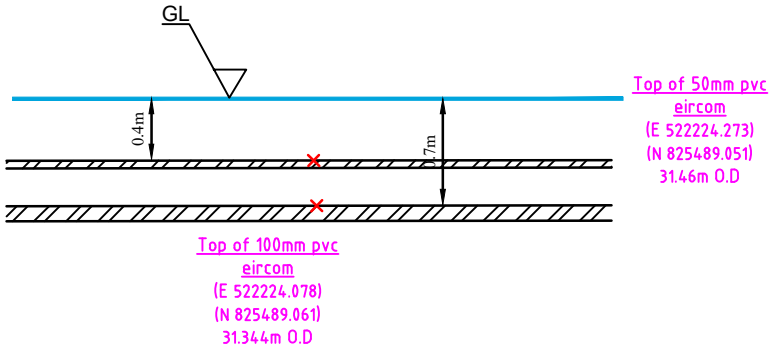
*ST-TEL03 (*Lough Talt*) 07/04/2025 Scale : 1:50*
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

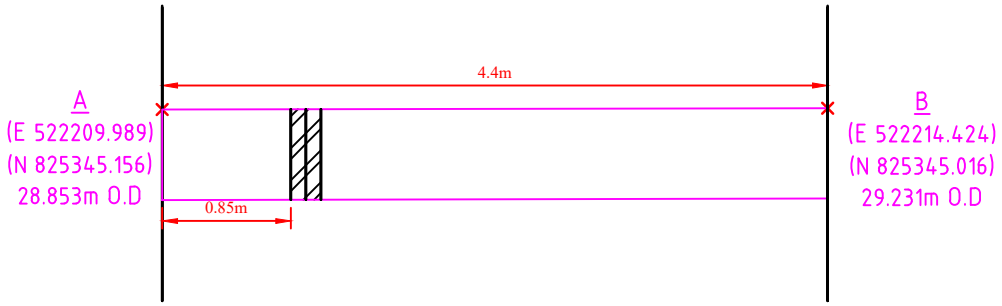
Trench Stable
Trench Dry

Ground Conditions:

GL-1.00 : (Made Ground)STONE, GRAVEL,804

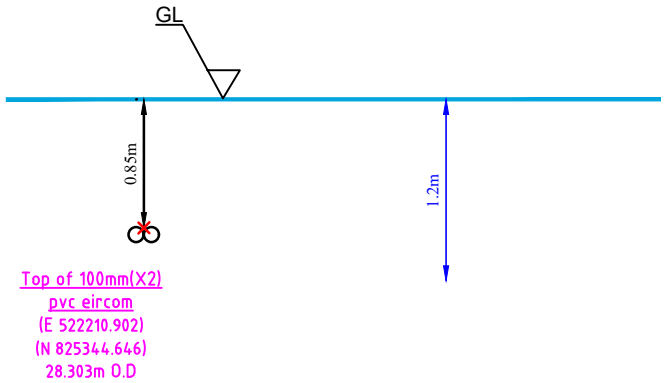
ST-TEL04 (Lough Talt) 08/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

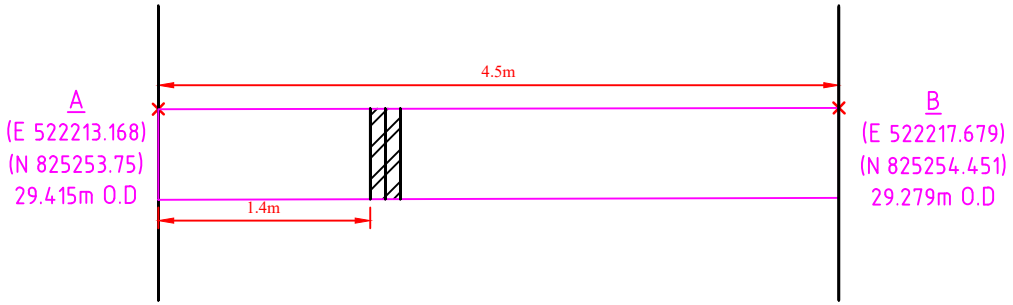
Trench Stable
Trench Dry

Ground Conditions:

GL-0.80 : Soft brown PEAT
0.80-1.20 : Grey firm gravelly SILT with a medium quantity of cobbles
Cobbles are sub-angular of siltstone

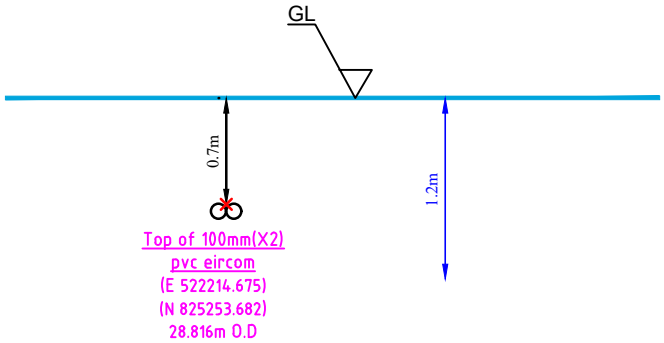
ST-TEL06 (Lough Talt) 10/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

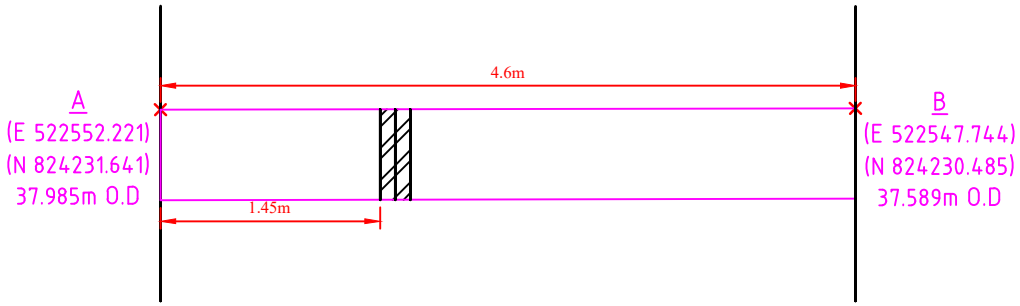
Notes:
Backfill : Arisings

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.40 : Firm dark brown SILT
0.40-1.20 : Soft dark brown PEAT

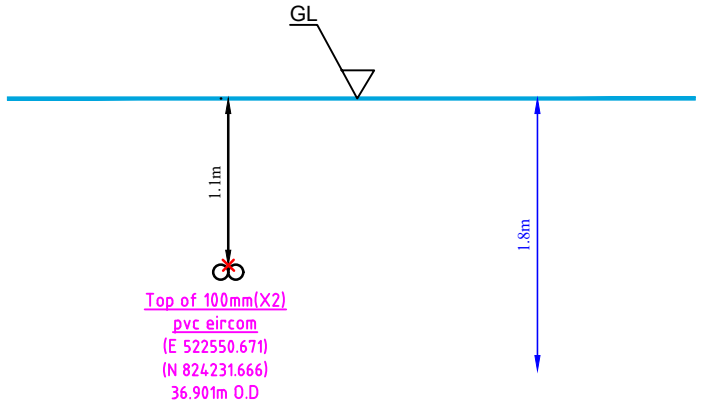
ST-TEL09 (Lough Talt) 23/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m
Environmental Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

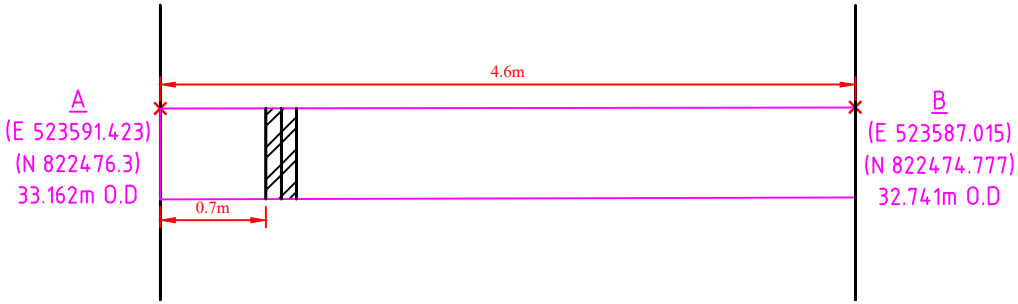
Ground Conditions:

GL-1.10 : (Made Ground) GRAVEL SILT/STONE
1.10-1.80 : Soft grey brown slightly gravelly SILT

ST-TEL13 (Lough Talt) 01/05/2025 Scale : 1:50
Irish Drilling Limited

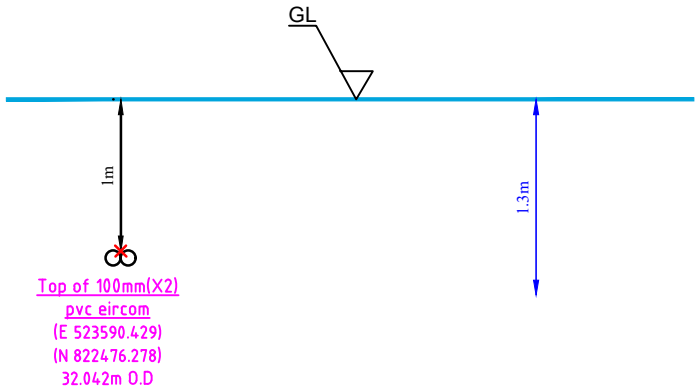
N

Plan





Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m
Environmental Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

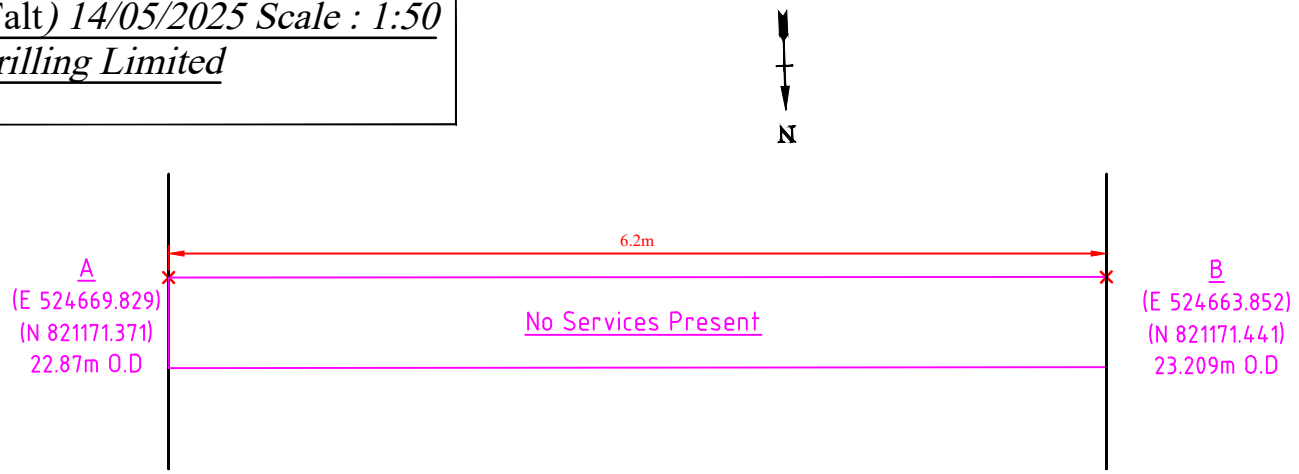
Trench Stable
Trench Dry

Ground Conditions:

GL-1.30 : (Made Ground) GRAVEL SILT/STONE/STEEL and plastic

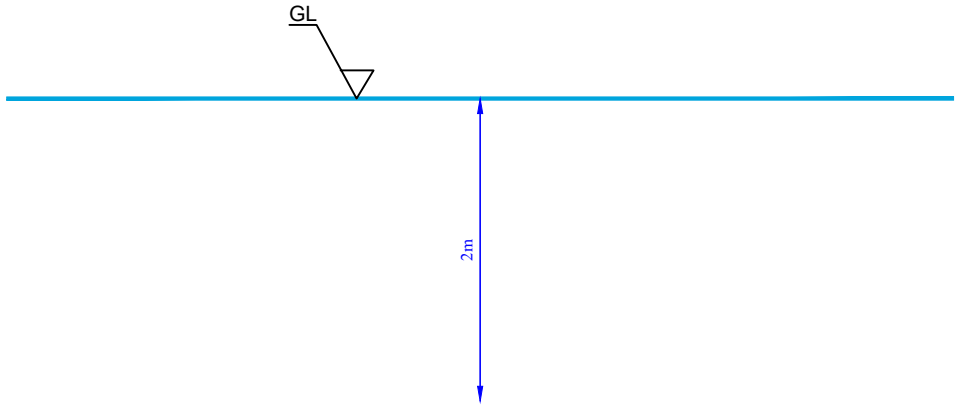
ST-TEL18 (Lough Talt) 14/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 6.20m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

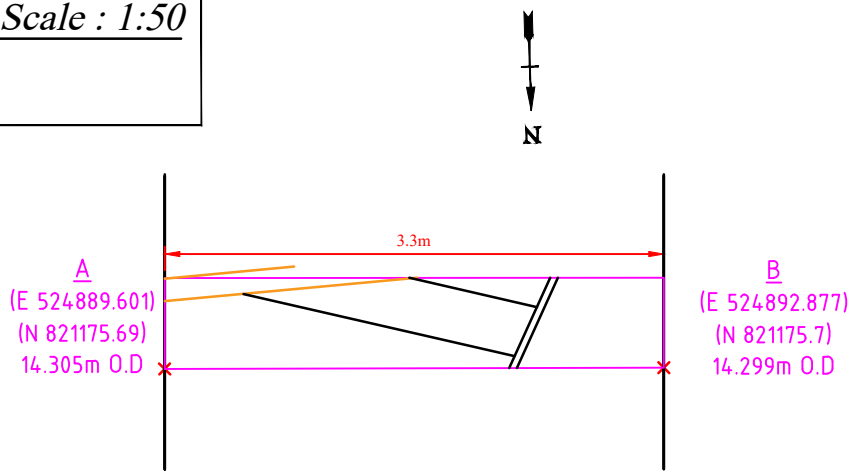
Trench Sides Unstable
Trench Dry

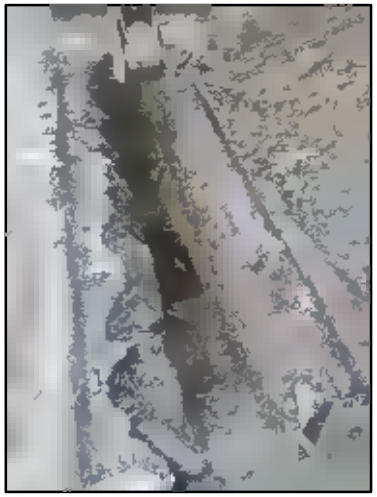
Ground Conditions:

GL-0.45 : (Made Ground) Soft dark brown topsoil
0.45-0.60 : 804
0.60-2.00 : Brown sandy GRAVEL with a high quantity of cobbles and boulders
Boulders and cobbles are of siltstone and sandstone

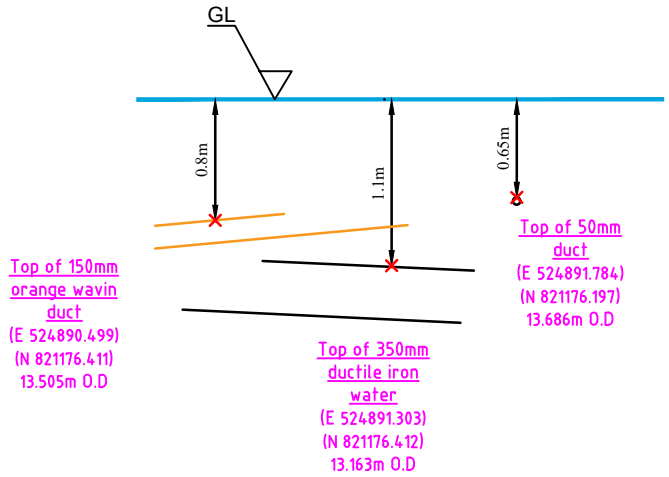
ST-TEL19 (Lough Talt) 29/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.30m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00m-1.10m

Notes:

Backfill : Bitumen and 804

Remarks:

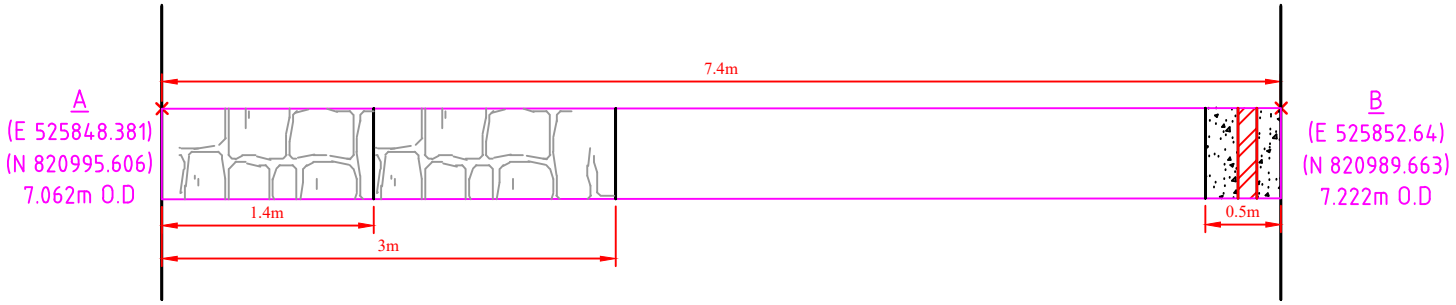
Trench Stable
Trench Dry

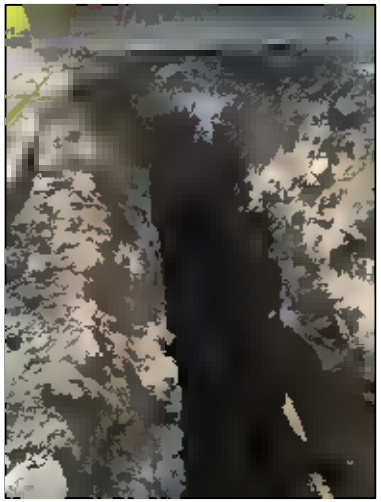
Ground Conditions:

GL-0.12 : (Made Ground) Tarmac
0.12-0.85 : 804
0.85-1.20 : Brown creamy silty SAND

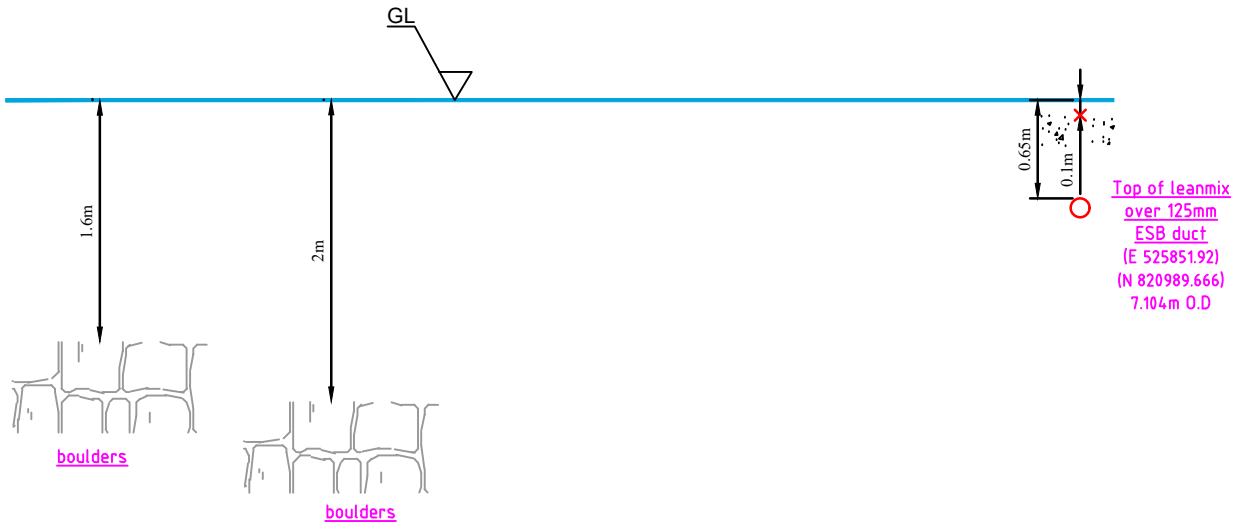
ST-TEL20 (Lough Talt) 29/04/2025 Scale : 1:50
Irish Drilling Limited

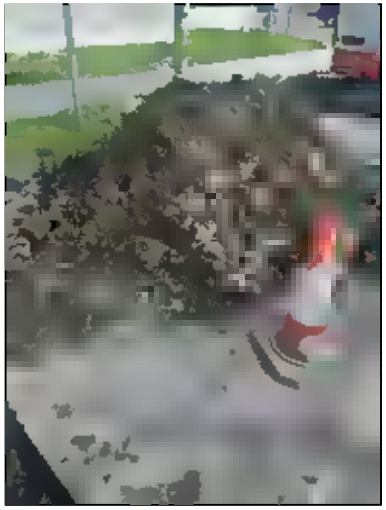
Plan





Section





Trench Dimensions:

Length of Trench: 7.40m
Width of Trench: 1.00m
Depth of Trench: 1.90m

Logged by: DF

Samples:
Bulk Bag Sample @ 1.00m-1.20m
Bulk Bag Sample @ 1.70m-1.90m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

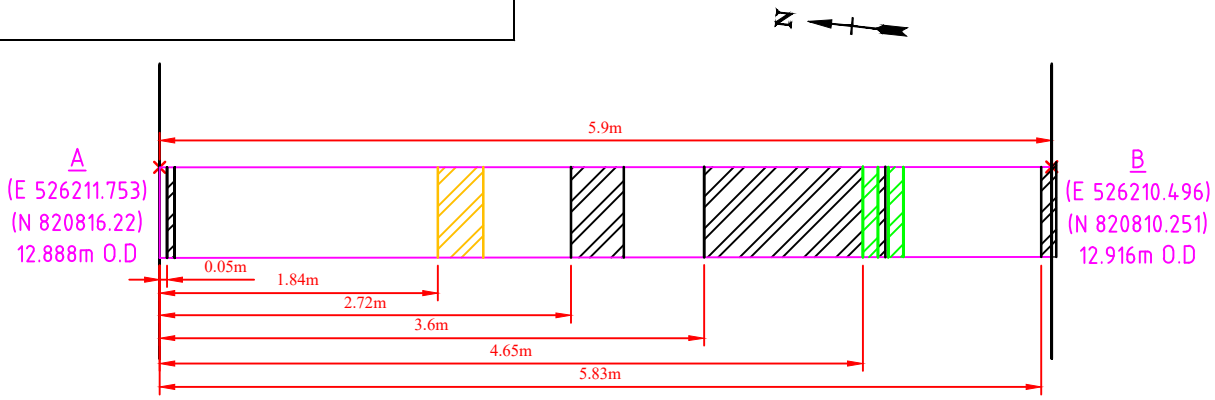
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : (Made Ground) Bitumen
0.10-0.30 : (Made Ground) SAND and GRAVEL with a high quantity of cobbles
0.30-0.55 : (Made Ground) SILT and COBBLES
0.55-1.90 : Brown gravelly SAND with a high quantity of cobbles

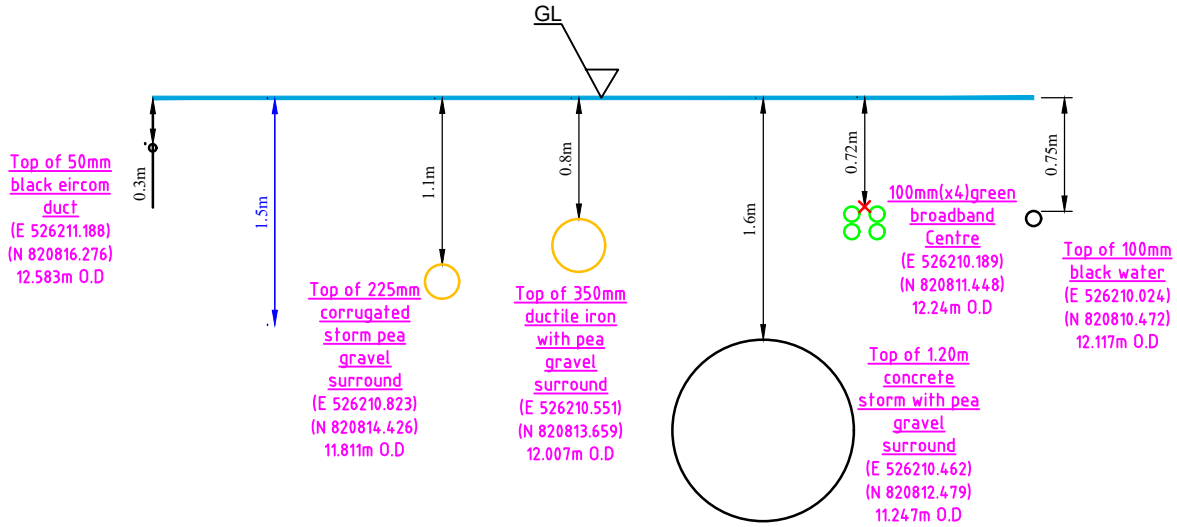
*ST-TEL25 (*Lough Talt*) 01/05/2025 Scale : 1:50*
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.90m
Width of Trench: 1.00m
Depth of Trench: 0.25m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.70m-0.90m
Bulk Bag Sample @ 1.30m-1.50m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

Trench Stable
Trench Dry

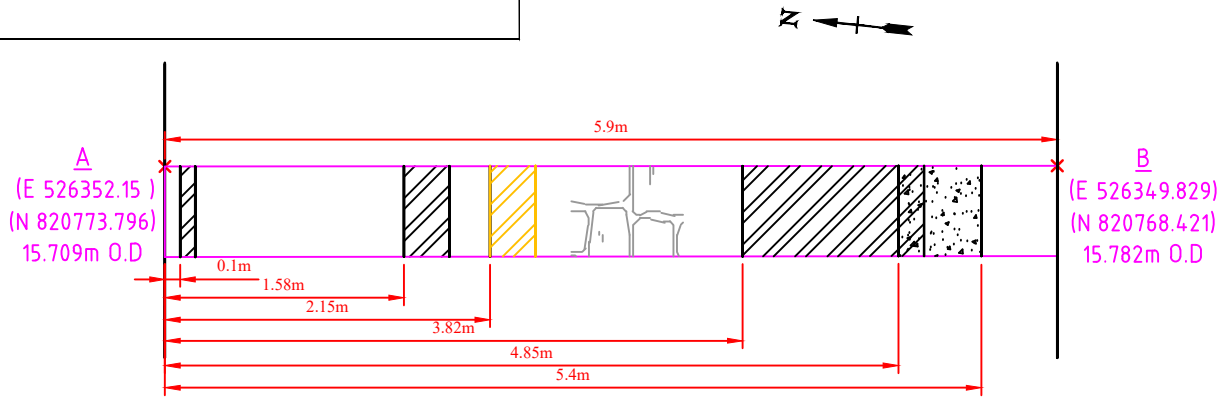
Ground Conditions:

GL-0.25 : (Made Ground) Bitumen
0.15-0.60 : (Made Ground) 804
0.60-1.40 : (Made Ground) Brown gravelly SAND with a high quantity of cobbles
Gravel content is angular to sub-rounded
Cobbles are angular

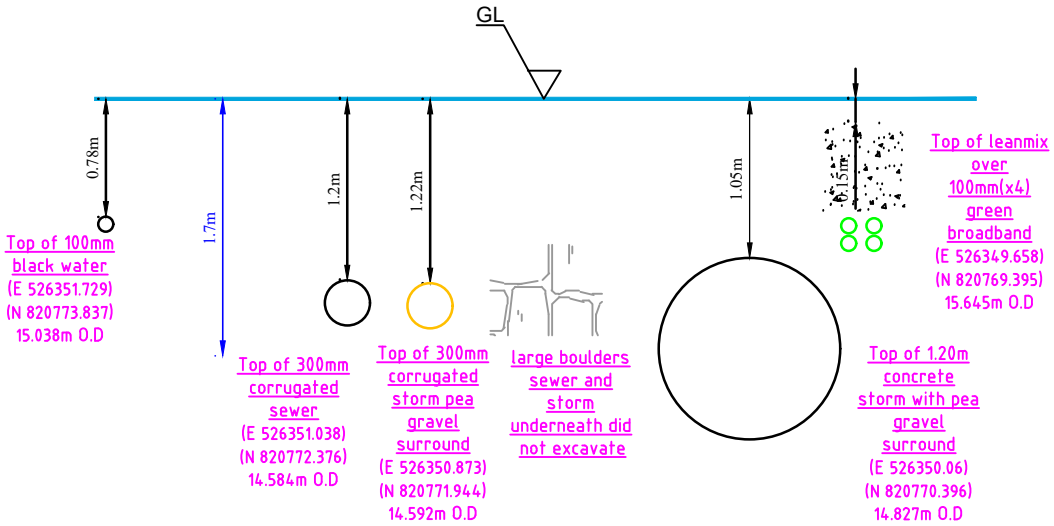
ST-TEL28 (Lough Talt) 01/05/2025 Scale : 1:50
Irish Drilling Limited

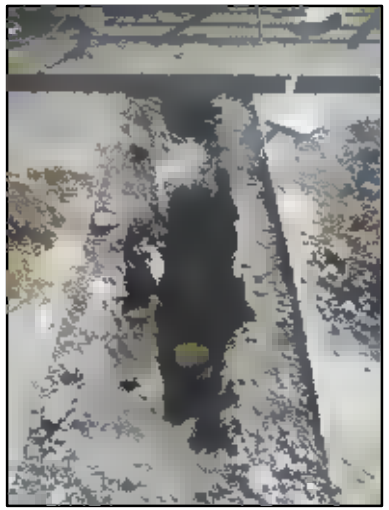


Plan



Section





Trench Dimensions:

Length of Trench: 5.90m
Width of Trench: 1.00m
Depth of Trench: 0.25m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.70m-0.90m
Bulk Bag Sample @ 1.30m-1.50m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

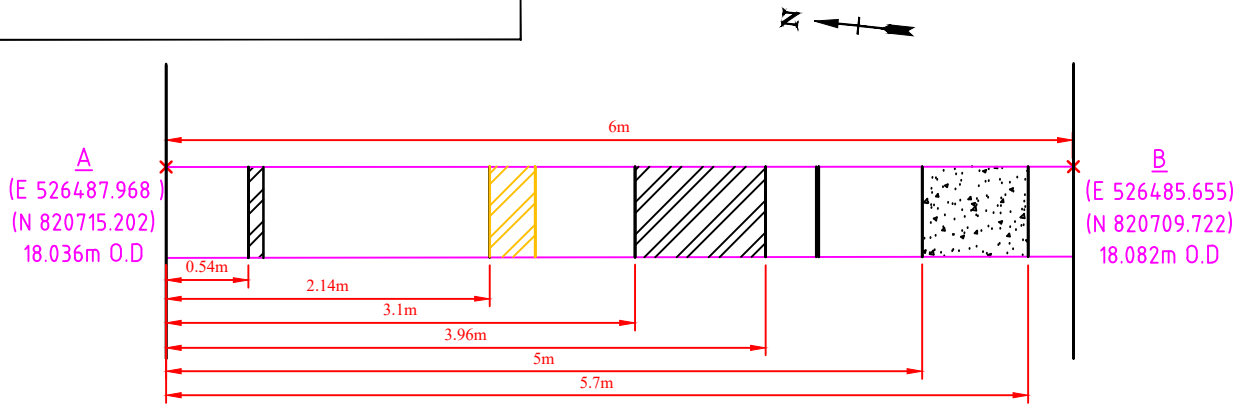
Trench Stable
Trench Dry

Ground Conditions:

GL-0.12 : (Made Ground) Bitumen
0.12-0.27 : (Made Ground) Stone fill
0.27-0.37 : Firm orange brown sandy SILT

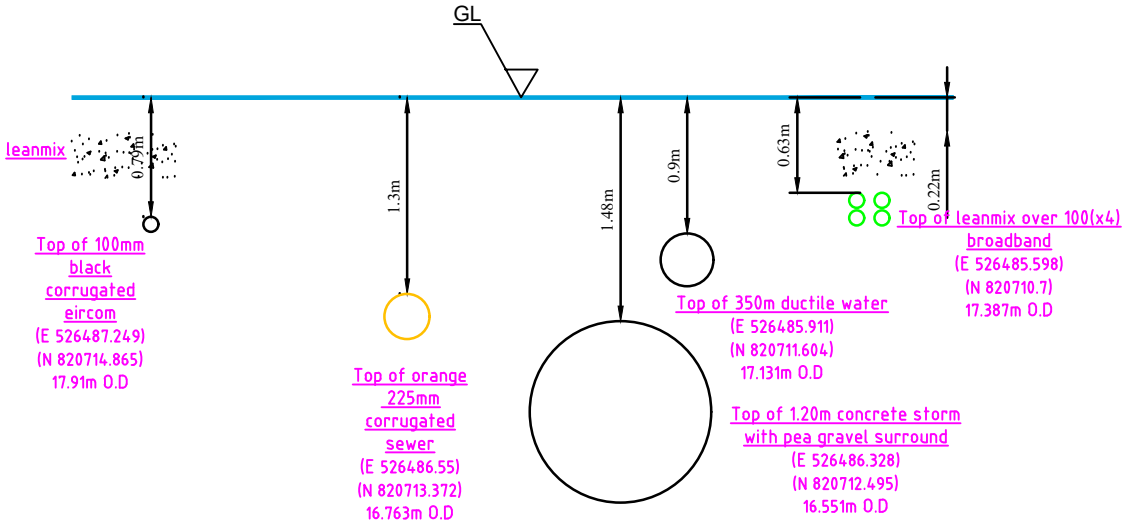
ST-TEL31 (Lough Talt) 02/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 1.48m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.40m-0.60m
Bulk Bag Sample @ 1.20m-1.40m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

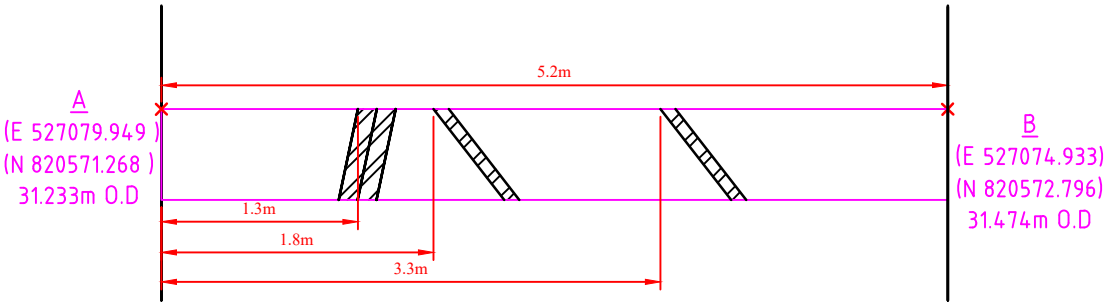
Trench Stable
Trench Dry

Ground Conditions:

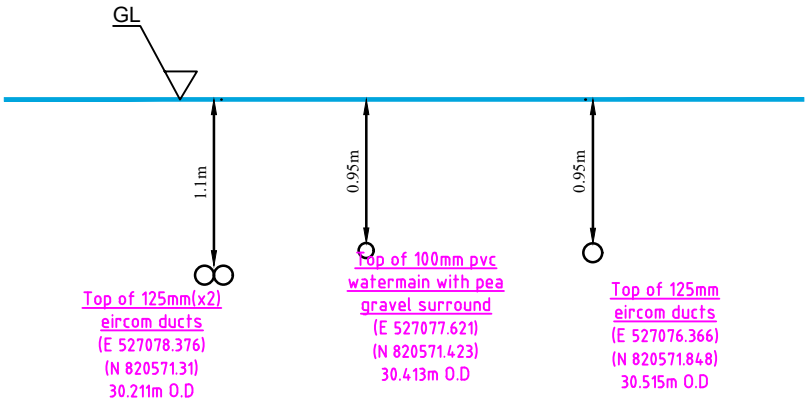
GL-0.22 : (Made Ground) Bitumen
0.22-0.65 : (Made Ground) Brown COBBLES and CLAY
0.65-1.25 : (Made Ground) Angular GRAVEL with COBBLES
1.25-1.48 : (Made Ground) Rounded Pea GRAVEL over concrete storm

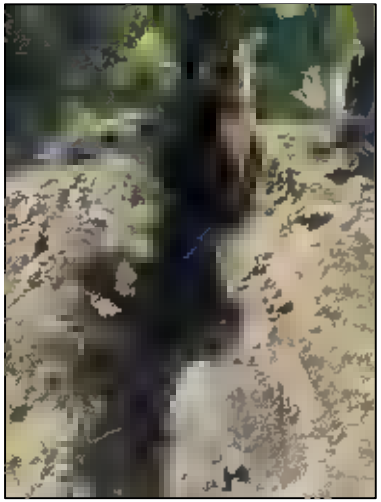
ST-TEL35 (Lough Talt) 23/05/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 5.20m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : 804 and Arisings

Remarks:

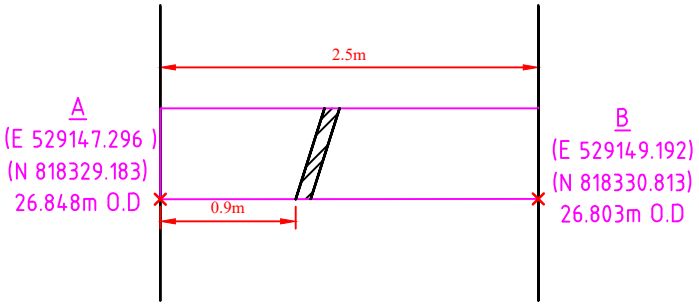
Trench Stable
Trench Dry

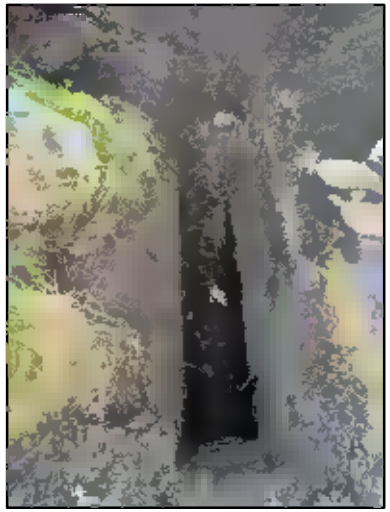
Ground Conditions:

GL-1.60 : (Made Ground) Stone/804 and SILT

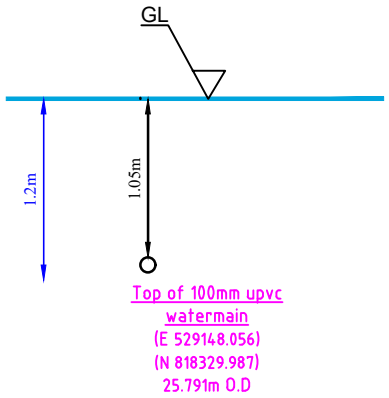
ST-TEL36 (Lough Talt) 09/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section



Trench Dimensions:

Length of Trench: 2.50m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00-1.10m

Notes:

Backfill : Arisings+804

Remarks:

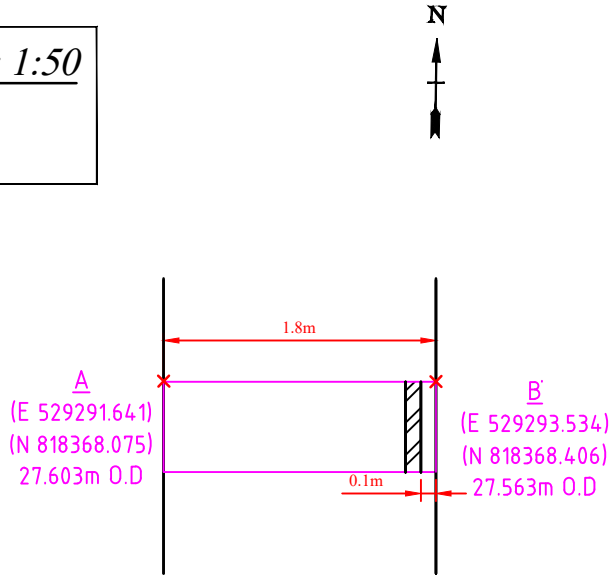
Trench Stable
Trench Dry

Ground Conditions:

GL-0.70 : (Made Ground) Grass over a dark brown slightly gravelly clayey sandy SILT
0.70-1.20 : Dark brown PEAT

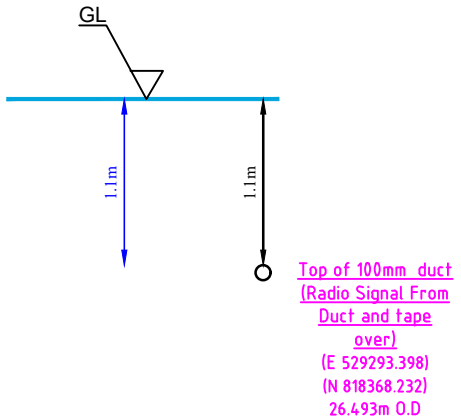
ST-TEL37 (Lough Talt) 09/06/2025 Scale : 1:50
Irish Drilling Limited

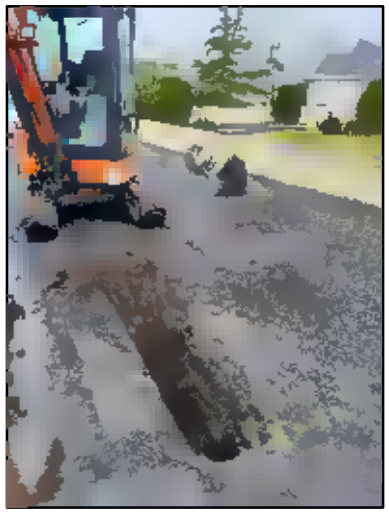
Plan





Section





Trench Dimensions:

Length of Trench: 1.80m
Width of Trench: 0.50m
Depth of Trench: 1.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.70-0.80m

Notes:

Backfill : 804

Remarks:

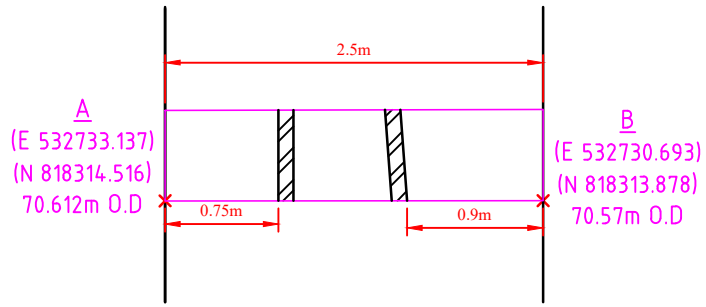
Trench Stable
Trench Dry

Ground Conditions:

GL-0.20 : (Made Ground) 804
0.20-1.10 : Brown sandy GRAVEL

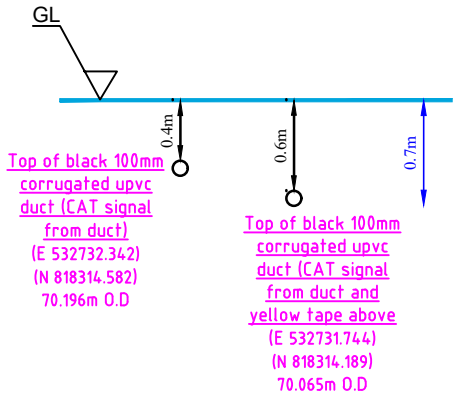
ST-TEL41 (Lough Talt) 17/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.50m
Width of Trench: 1.00m
Depth of Trench: 0.70m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-0.60m

Notes:

Backfill : Bitumen and 804

Remarks:

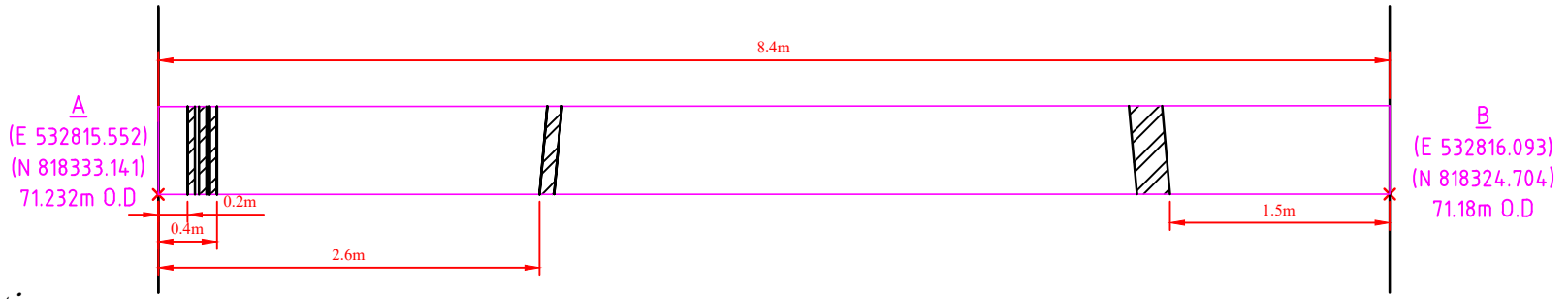
Trench Stable
Trench Dry

Ground Conditions:

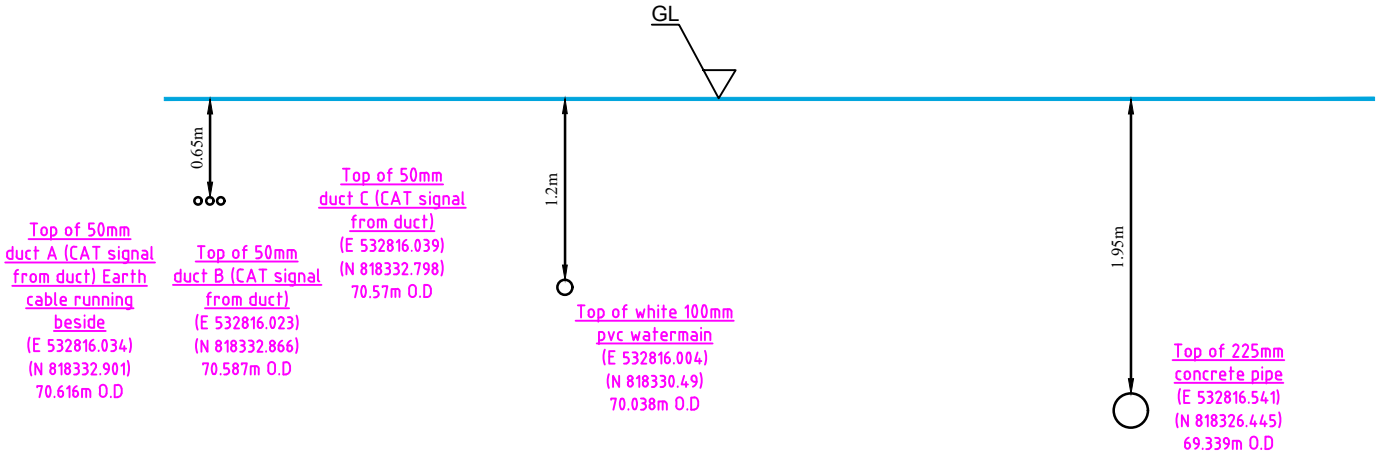
GL-0.10 : Bitumen
0.10-0.18 : Tarmac
0.18-0.70: Brown slightly clayey sandy GRAVEL with a low quantity of cobbles and boulders
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-rounded to rounded
Boulder are rounded ranging up to 0.40m

ST-TEL42 (Lough Talt) 17/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 8.40m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.50-1.60m

Notes:

Backfill : Bitumen and 804

Remarks:

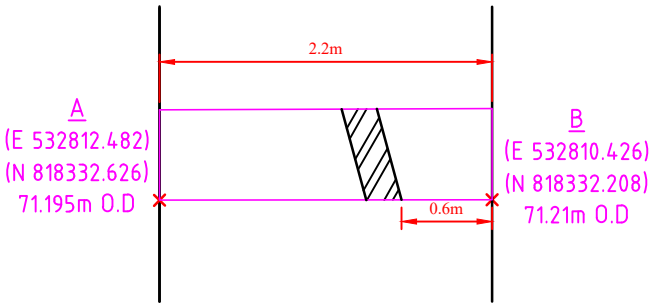
Trench Stable
Trench Dry

Ground Conditions:

GL-0.30 : Bitumen
0.30-0.50 : Brown clayey silty sandy GRAVEL with a low quantity of cobbles and boulders
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-rounded to rounded
0.50-2.00 : Orange brown silty sandy GRAVEL with a medium quantity of cobbles and boulders
Boulders are ranging up to 0.50m of limestone

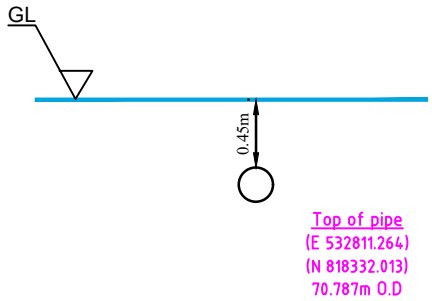
ST-TEL42A (Lough Talt) 17/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 2.20m
Width of Trench: 0.50m
Depth of Trench: 0.50m

Logged by: PC

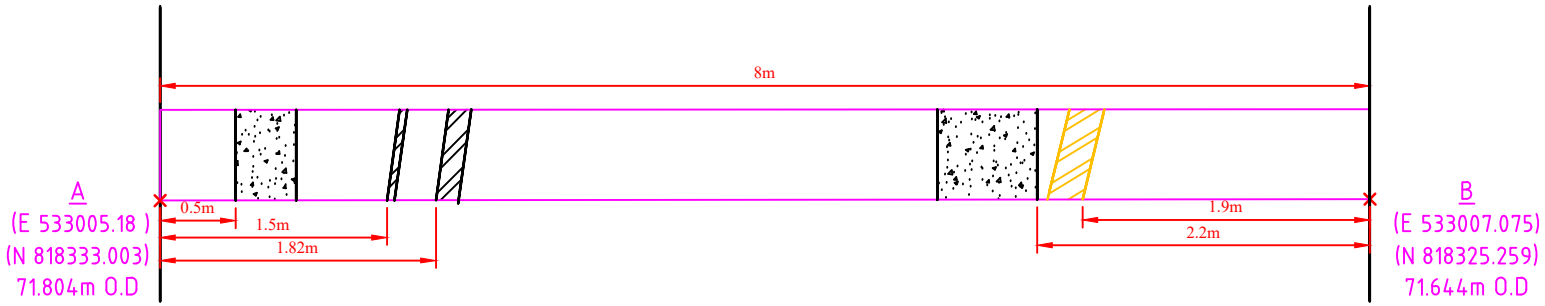
Notes:
Backfill : Bitumen and 804

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.10 : Bitumen
0.10-0.30 : 804
0.18-0.70: Brown slightly clayey gravelly SAND

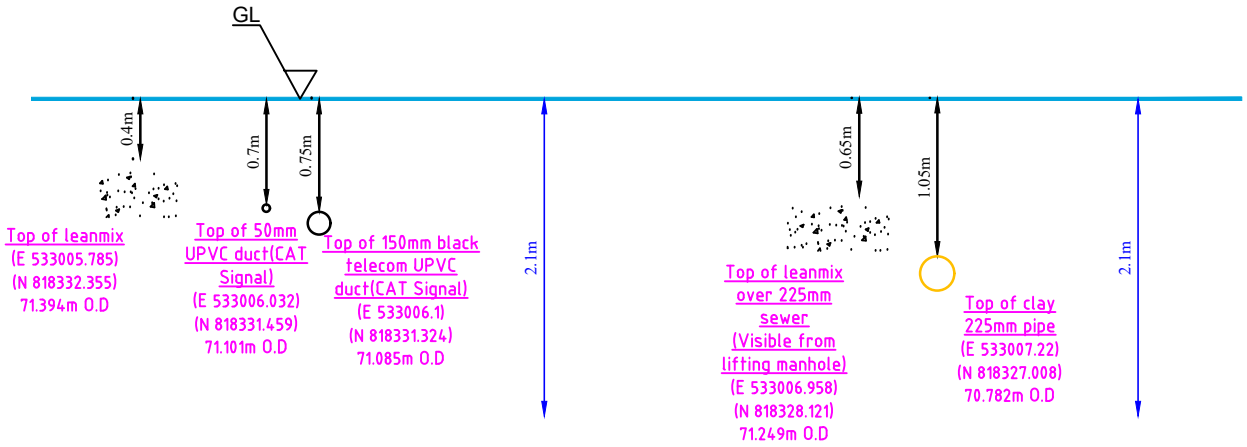
ST-TEL44 (Lough Talt) 16/06/2025 Scale : 1:50
Irish Drilling Limited

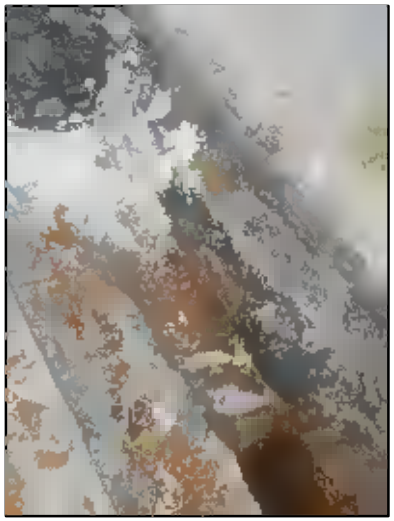
Plan





Section





Trench Dimensions:

Length of Trench: 8.00m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Environmental Sample @ 0.50-0.60m
Bulk Bag Sample @ 1.50-1.60m

Notes:

Backfill : 804+Bitumen

Remarks:

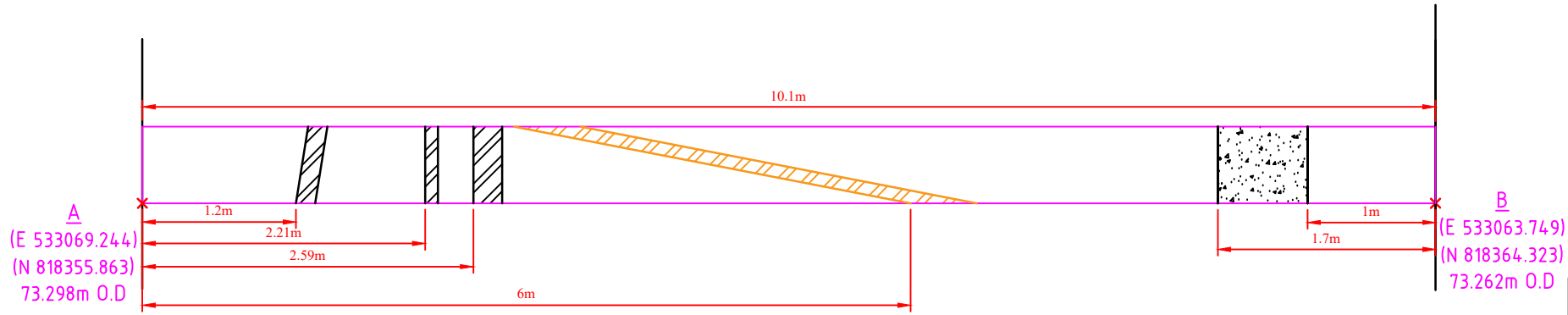
Trench Stable
Trench Dry

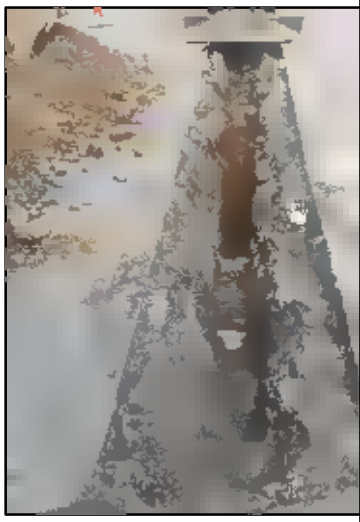
Ground Conditions:

GL-0.10 : Tarmac
0.10-0.40 : (Made Ground)804
0.40-0.80 : Brown sandy GRAVEL with a low quantity of cobbles and boulders
0.80-2.10 : Brown slightly clayey GRAVEL/SAND
Gravel content is sub-angular to sub-rounded
Sand content is fine to coarse

ST-TEL45 (Lough Talt) 16/06/2025 Scale : 1:50
Irish Drilling Limited

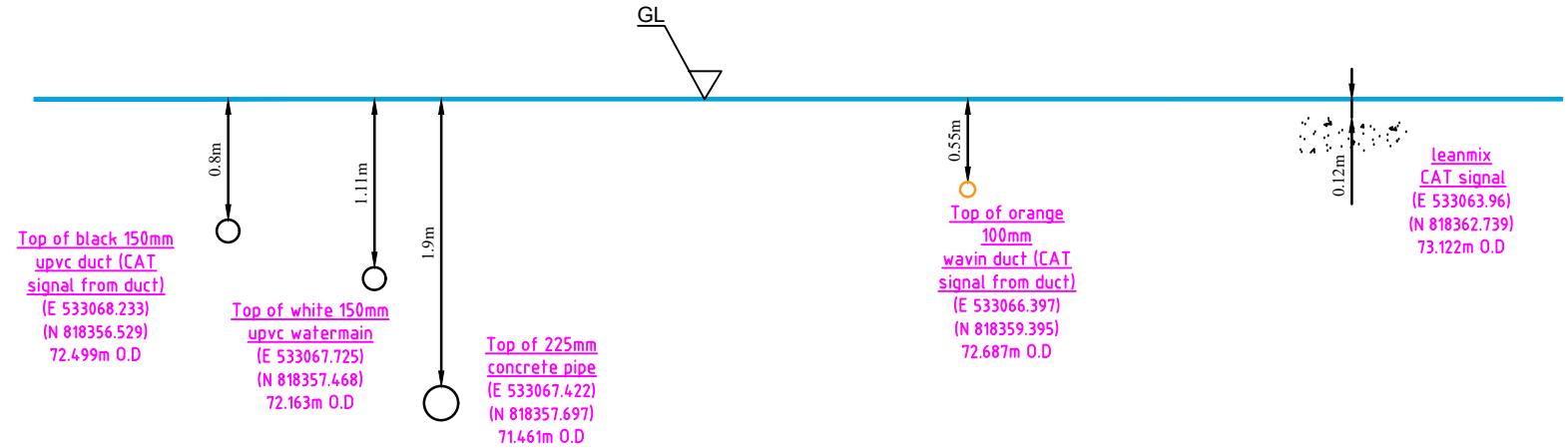
Plan







Section



Trench Dimensions:

Length of Trench: 10.10m
Width of Trench: 1.00m
Depth of Trench: 2.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00-1.30m

Notes:

Backfill : 804+Bitumen

Remarks:

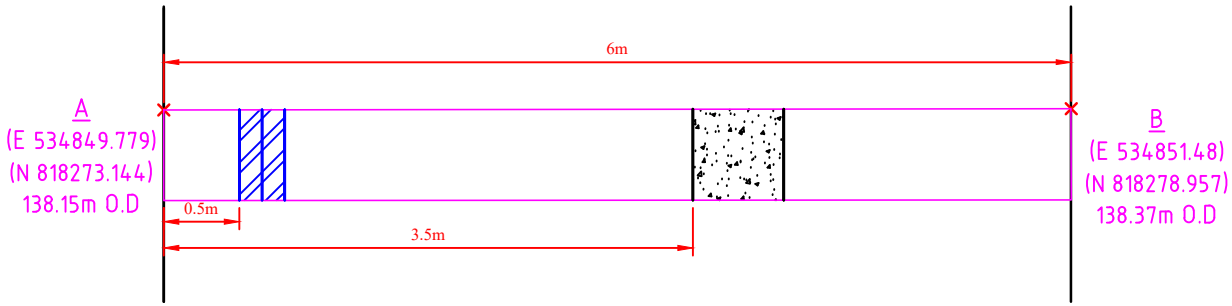
Trench Stable
Trench Dry

Ground Conditions:

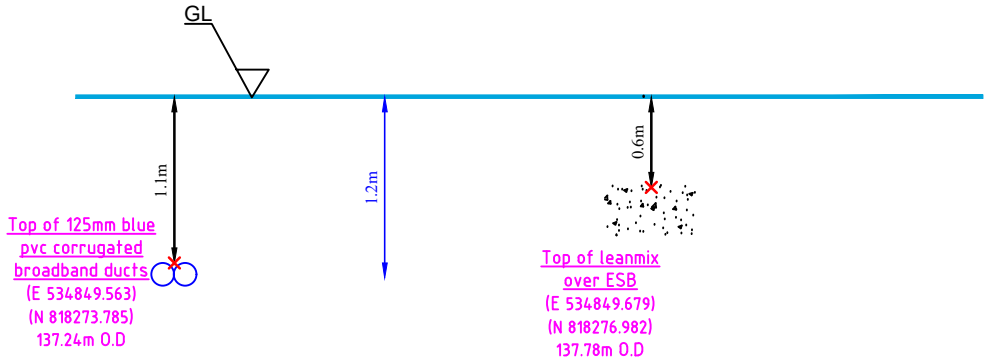
GL-0.15 : Bitumen
0.10-0.20 : 804
0.20-2.20 : Dark brown sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to sub-rounded
Cobbles are sub-rounded to rounded

ST-TEL46 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 6.20m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

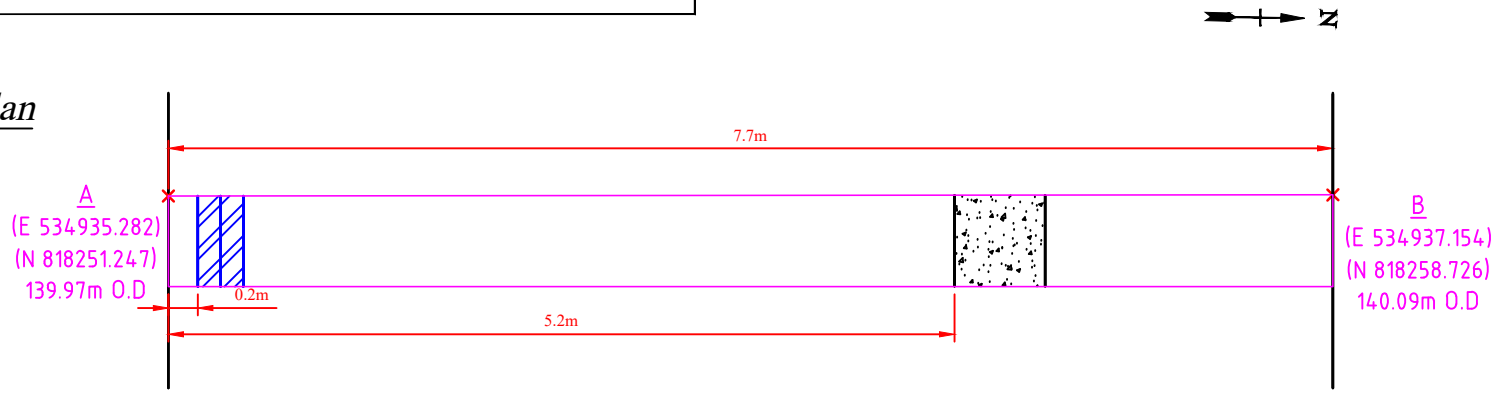
Trench Stable
Trench Dry

Ground Conditions:

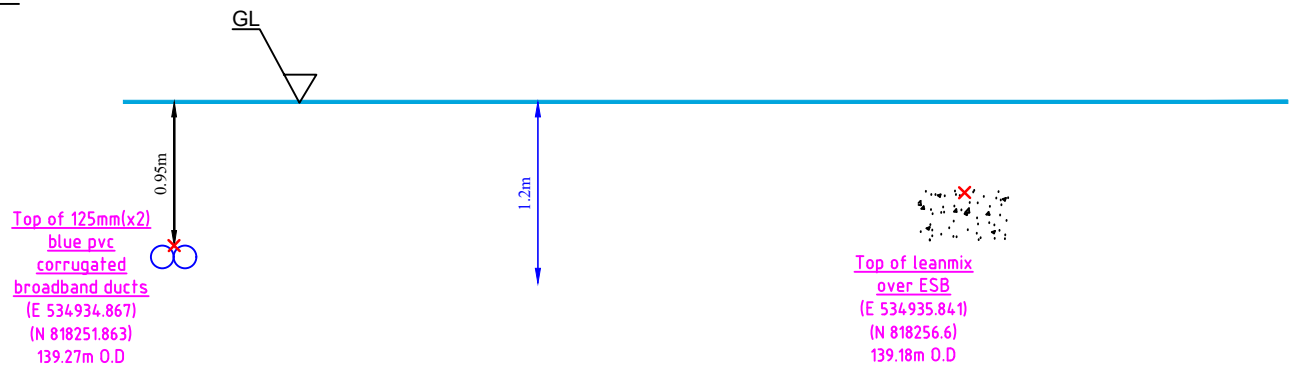
GL-0.40 : (Made Ground) STONE/GRAVEL
0.40-1.00 : Soft dark brown PEAT
1.00-1.20 : Stiff brown gravelly sandy SILT with a medium quantity of cobbles and a low boulder content Cobbles and boulders are sub-angular to sub-rounded of granite

ST-TEL47 (Lough Talt) 06/03/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 7.70m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

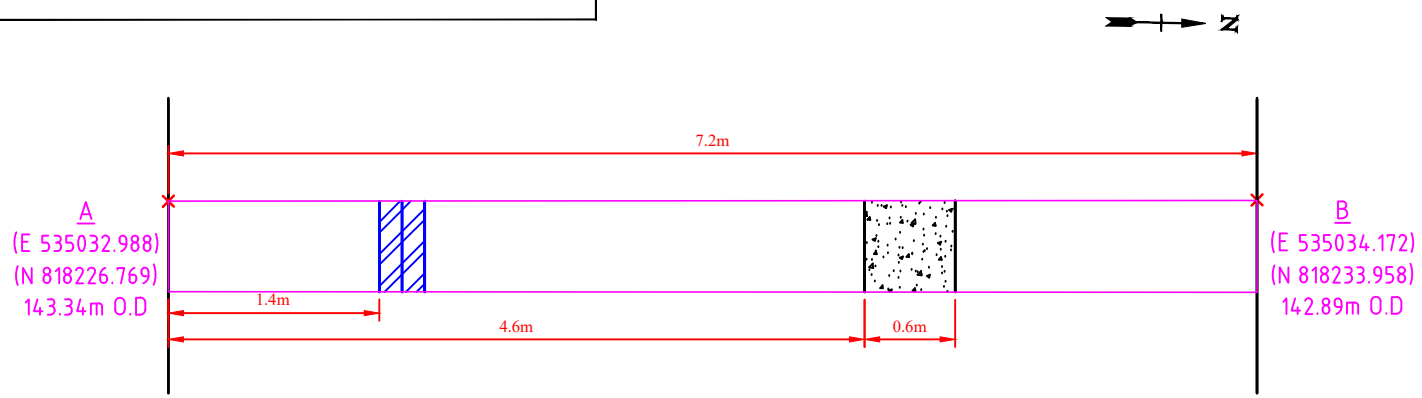
Trench Stable
Trench Dry

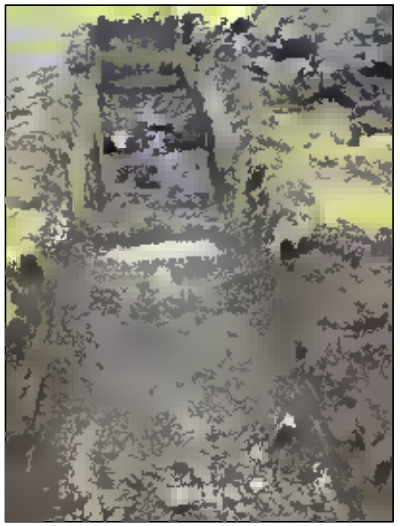
Ground Conditions:

GL-0.40 : (Made Ground) STONE/GRAVEL
0.40-1.00 : Soft dark brown PEAT
1.00-1.20 : Stiff brown gravelly sandy SILT with a medium quantity of cobbles and a low boulder content Cobbles and boulders are sub-angular to sub-rounded of granite

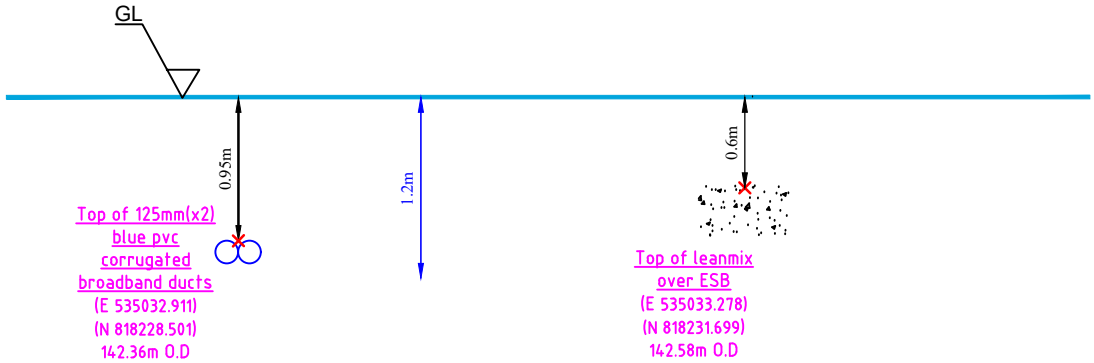
ST-TEL48 (Lough Talt) 05/03/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.20m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

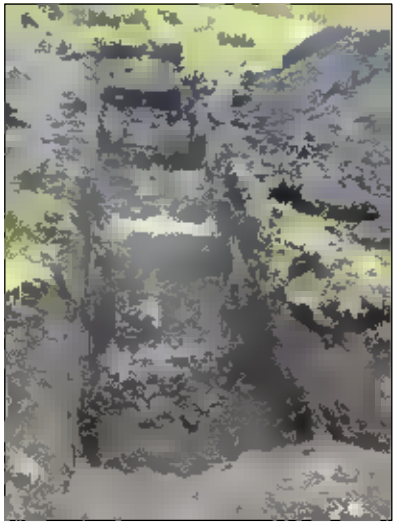
Remarks:

Trench Stable
Trench Dry

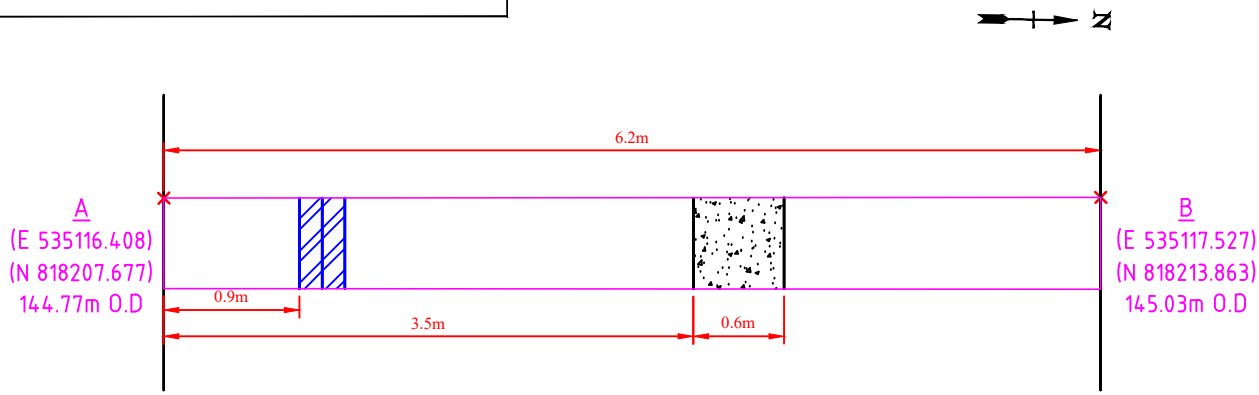
Ground Conditions:

GL-0.40 : (Made Ground) STONE/GRAVEL
0.40-1.20 : Soft dark brown PEAT

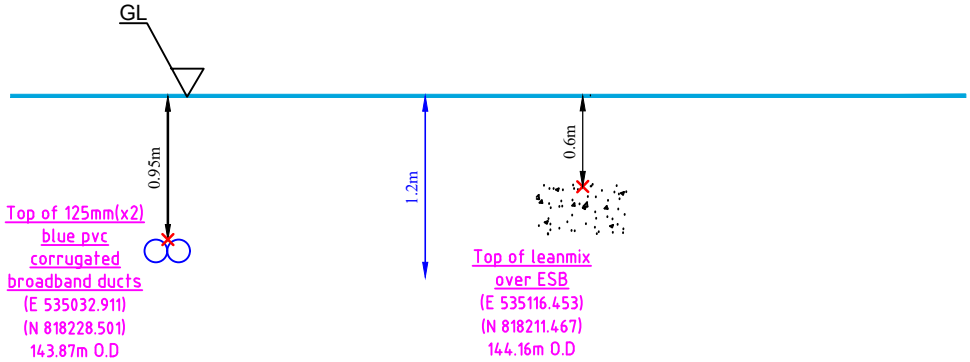
ST-TEL49 (Lough Talt) 04/03/2025 Scale : 1:50
Irish Drilling Limited

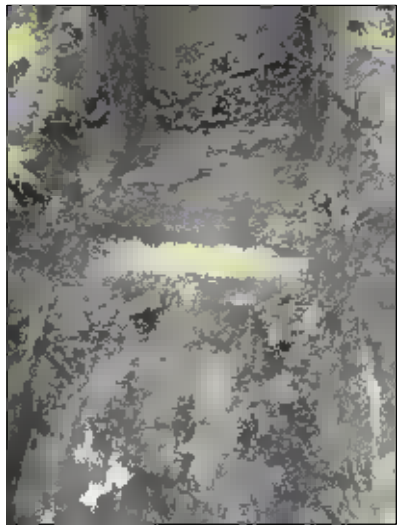


Plan



Section





Trench Dimensions:
Length of Trench: 6.20m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

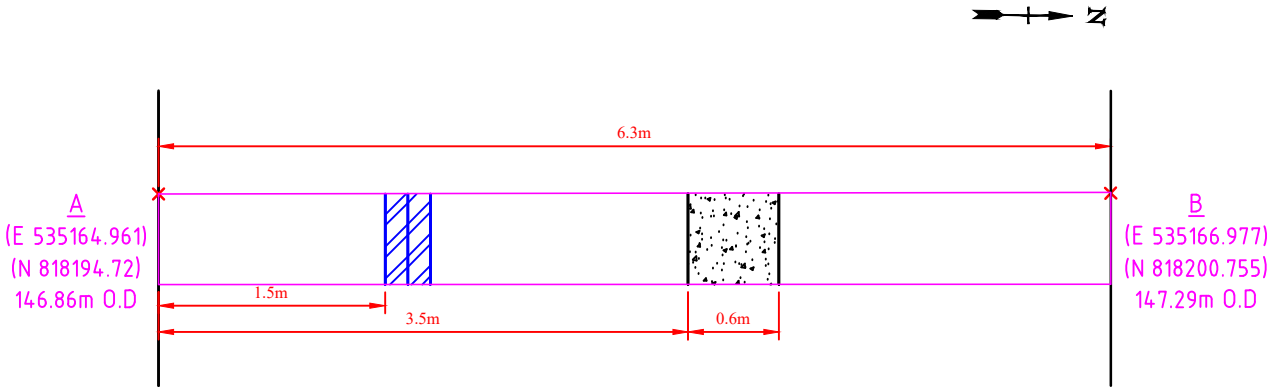
Notes:
Backfill : Arisings

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.45 : (Made Ground)
STONE/GRAVEL
0.45-1.20 : Soft dark brown PEAT

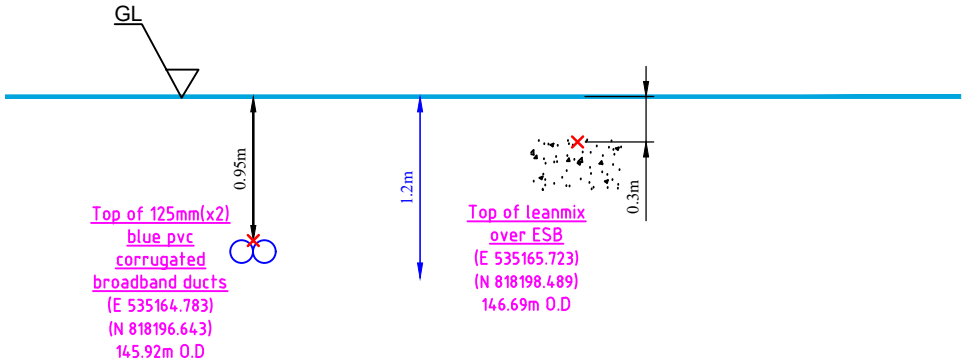
ST-TEL50 (Lough Talt) 04/03/2025 Scale : 1:50
Irish Drilling Limited

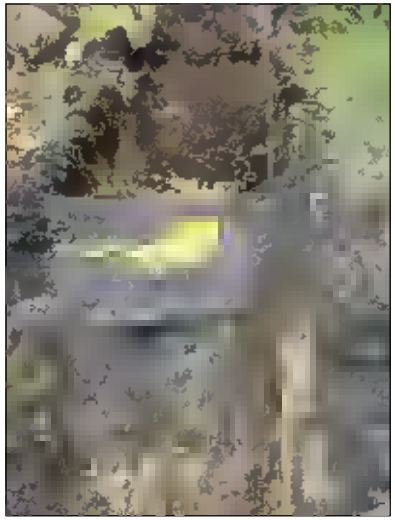
Plan





Section





Trench Dimensions:

Length of Trench: 6.30m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

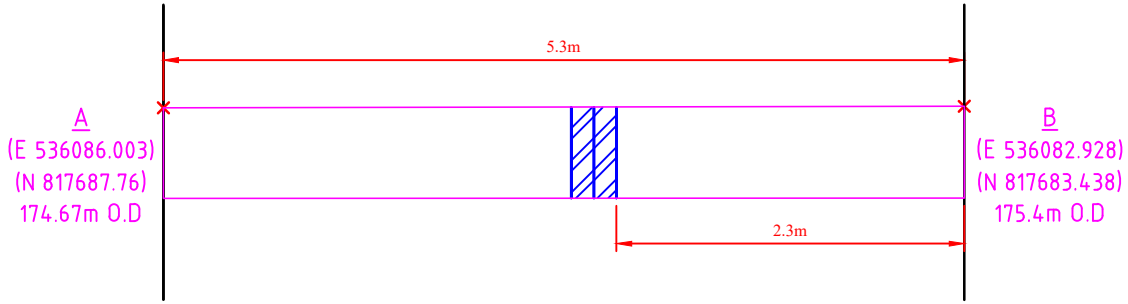
Trench Stable
Trench Dry

Ground Conditions:

GL-0.40 : (Made Ground) STONE/GRAVEL
0.40-1.20 : Stiff brown gravelly sandy SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of sandstone and siltstone

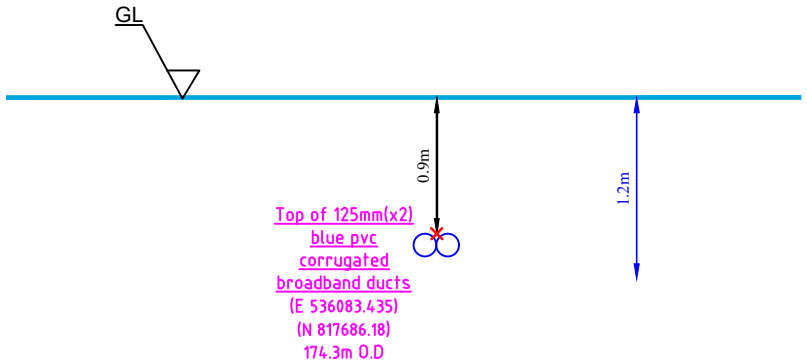
ST-TEL51 (Lough Talt) 28/02/2025 Scale : 1:50
Irish Drilling Limited

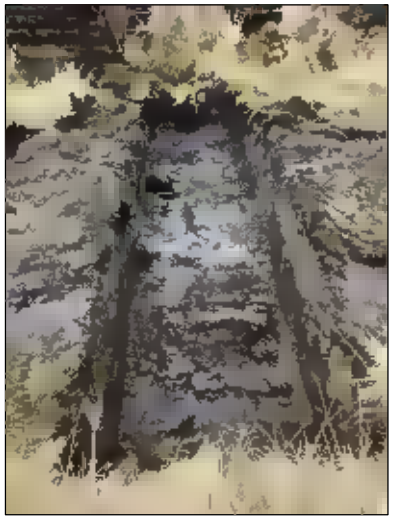
Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

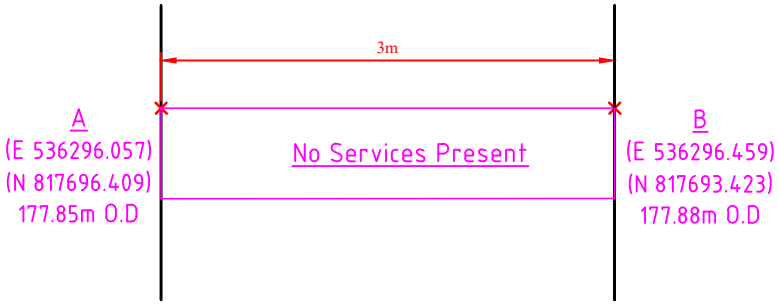
Trench Stable
Moderate inflow of water @ 0.30m

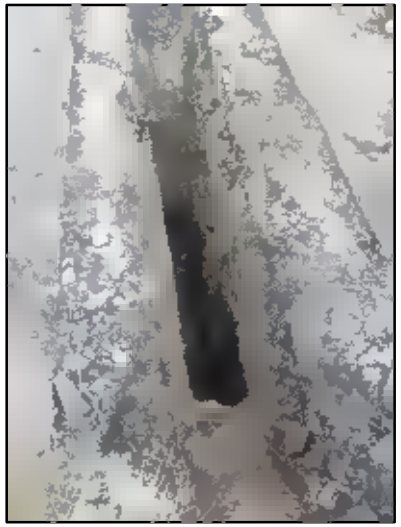
Ground Conditions:

GL-0.40 : (Made Ground) STONE/GRAVEL
0.40-1.20 : Soft dark brown PEAT

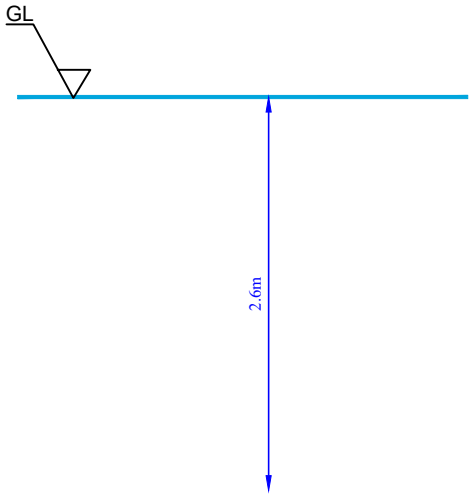
ST-TEL52 (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 3.00m
Width of Trench: 1.00m
Depth of Trench: 2.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.60m-0.70m

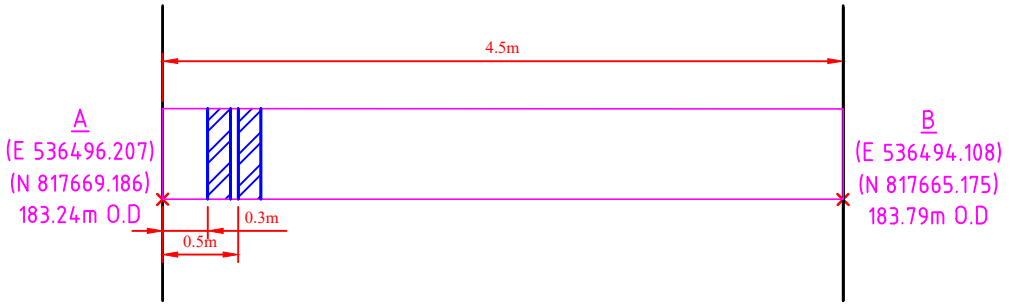
Notes:
Backfill : 804 and Bitumen

Remarks:
Trench Stable
Water seepage @ 0.40m

Ground Conditions:
GL-0.10 : Bitumen
0.10-0.17 : Tarmac
0.17-1.10 : Grey very sandy GRAVEL
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to rounded
1.10-2.60 : Dark brown spongy pseudo fibrous PEAT

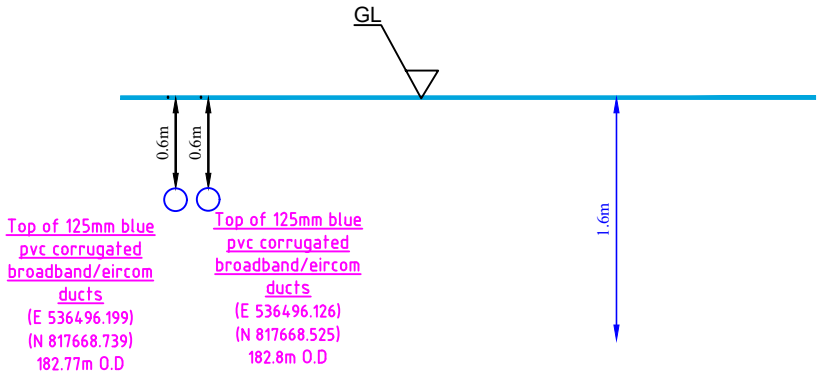
ST-TEL54 (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-0.60m
Bulk Bag Sample @ 1.50m-1.60m

Notes:

Backfill : 804 and Bitumen

Remarks:

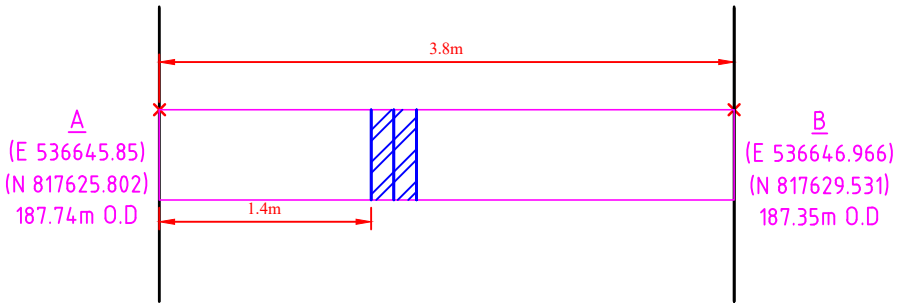
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : Bitumen
0.11-0.20 : Tarmac
0.20-1.00 : (Made Ground)Grey very silty SAND
Sand content is fine to coarse
1.00-1.60 : Dark brown spongy pseudo fibrous PEAT

ST-TEL55 (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

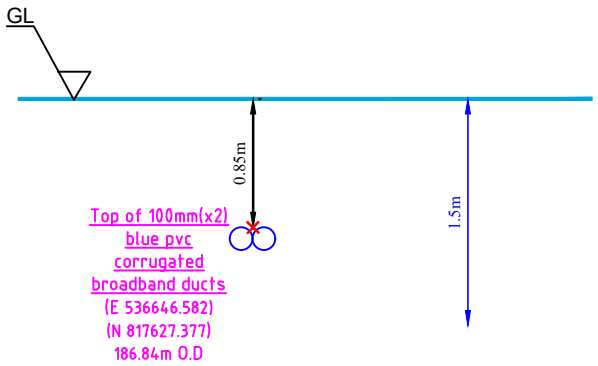
Plan







Section



Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

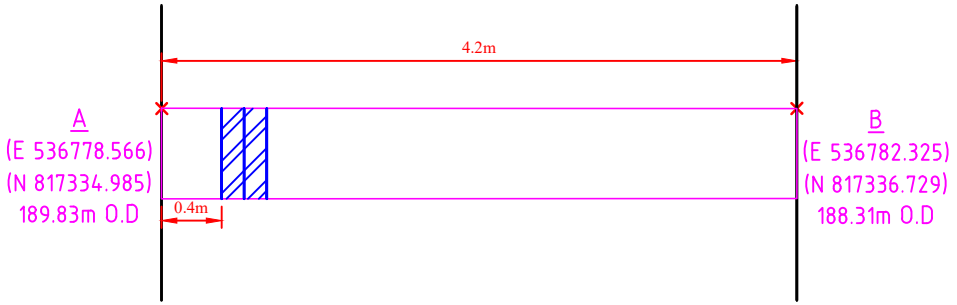
Trench Stable
Trench Dry

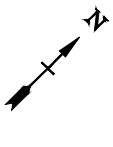
Ground Conditions:

GL-0.20 : Dark brown PEAT topsoil
0.20-1.50 : Brown gravelly sandy SILT

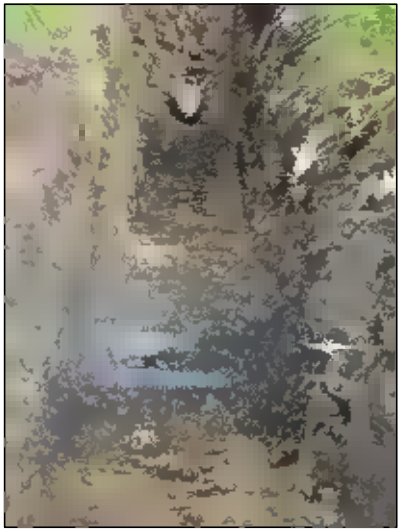
ST-TEL57 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan

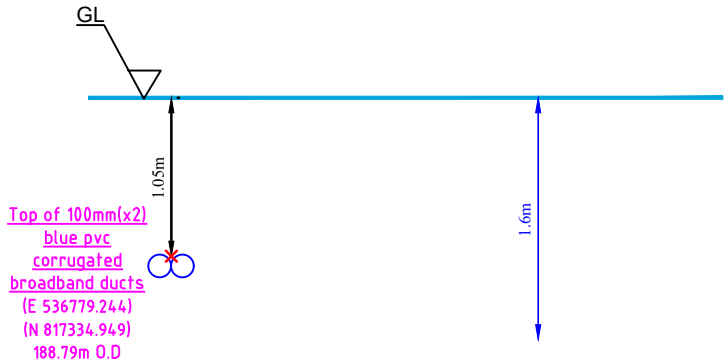








Section



Trench Dimensions:

Length of Trench: 4.20m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

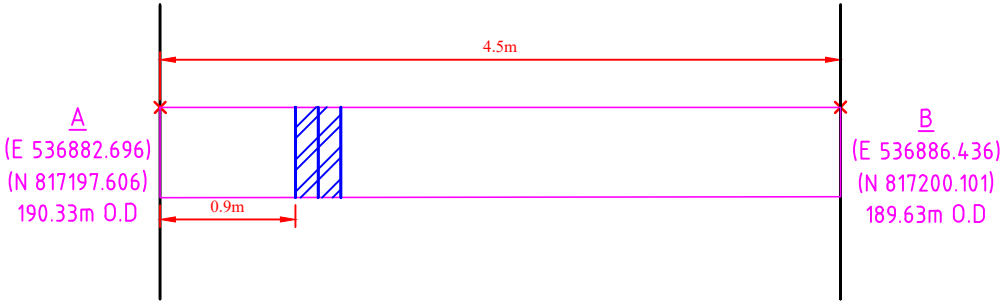
Trench Unstable
Trench Dry

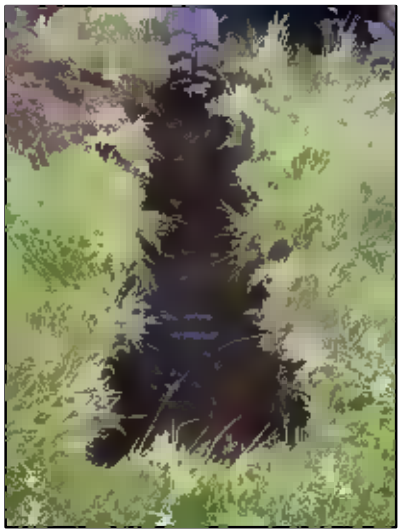
Ground Conditions:

GL-1.10 : (Made Ground) SAND/SILT and GRAVELS
1.10-1.60 : Soft dark brown PEAT

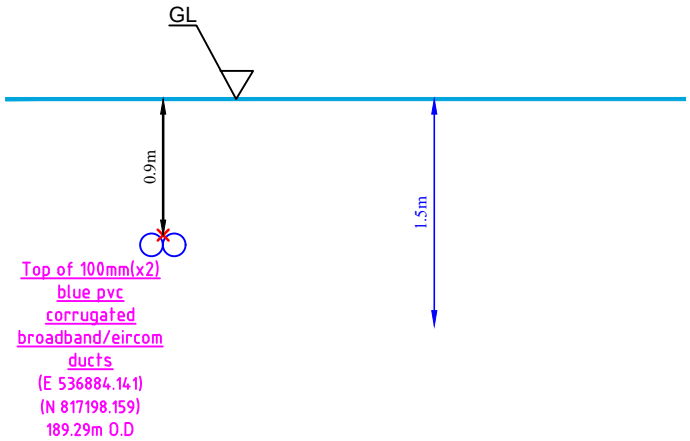
ST-TEL59 (Lough Talt) 26/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

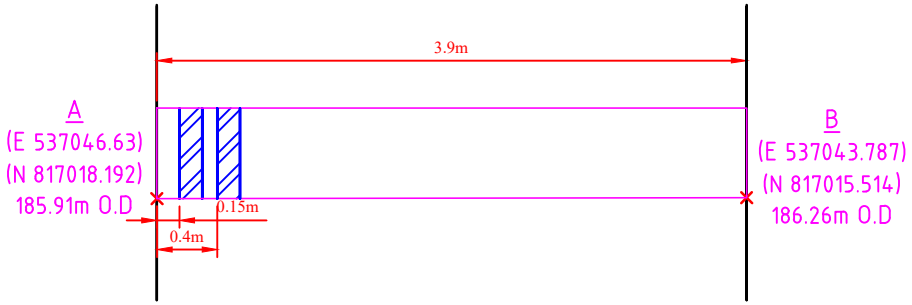
Trench Unstable
Trench Dry

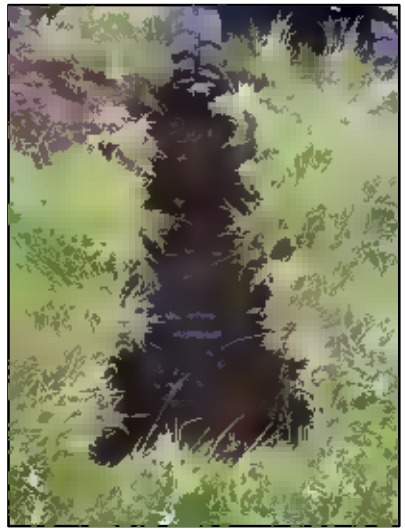
Ground Conditions:

GL-1.50: Brown gravelly sandy SILT with cobbles

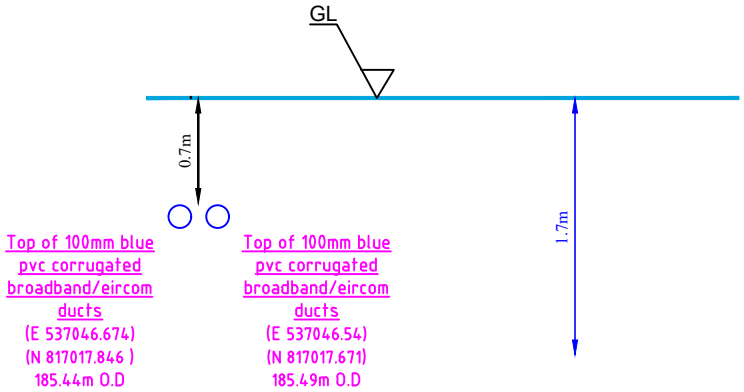
ST-TEL60 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.90m
Width of Trench: 1.00m
Depth of Trench: 1.70m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.80m-0.90m

Notes:

Backfill : 804 and Bitumen

Remarks:

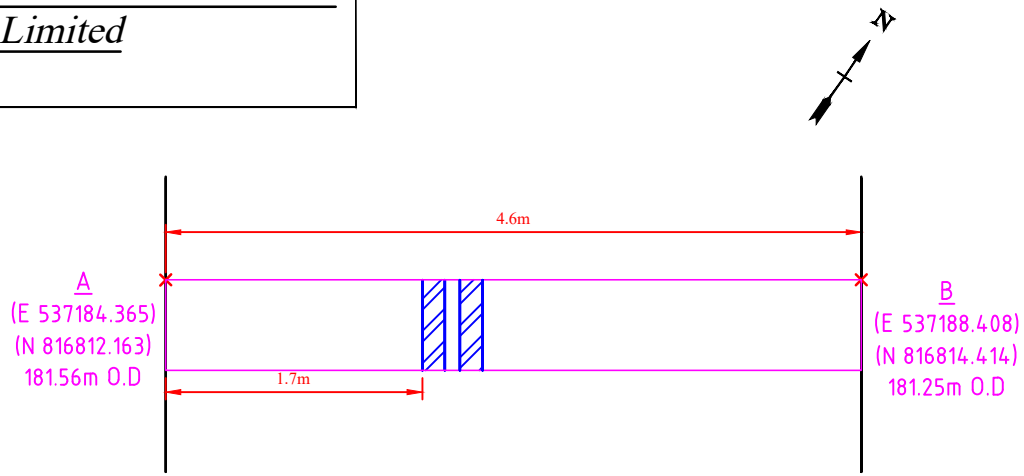
Trench Stable
Trench Dry

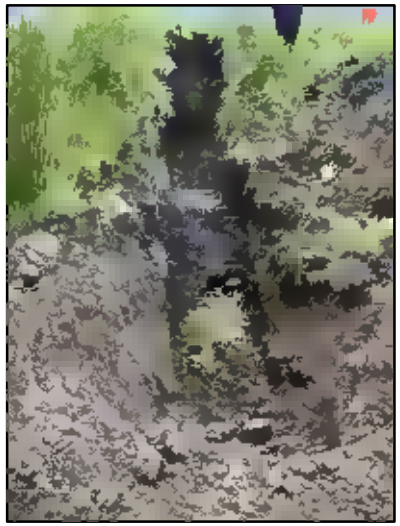
Ground Conditions:

GL-0.10 : Bitumen
0.10-0.20 : Tarmac
0.20-0.30 : 804
0.30-0.90 : Brown grey gravelly silty SAND
Sand content is fine to coarse
Gravel is fine yo coarse sub-angular to sub-rounded
0.90-1.20 : Dark brown plastic amorphous PEAT
1.20-1.70 : Firm orange brown gravelly sandy SILT
1.70 : BOULDERS unable to make progress

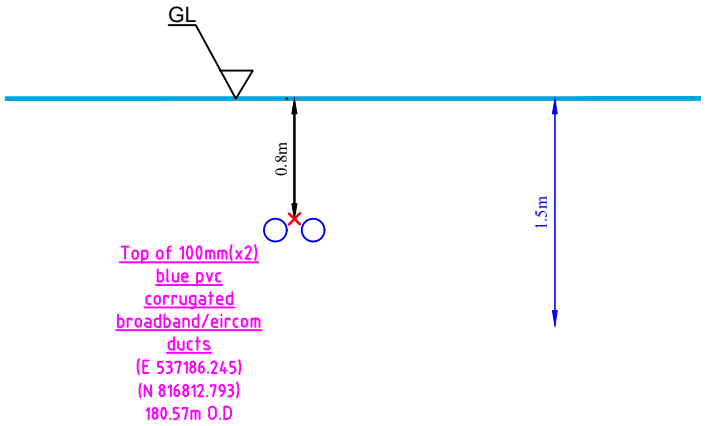
ST-TEL62 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

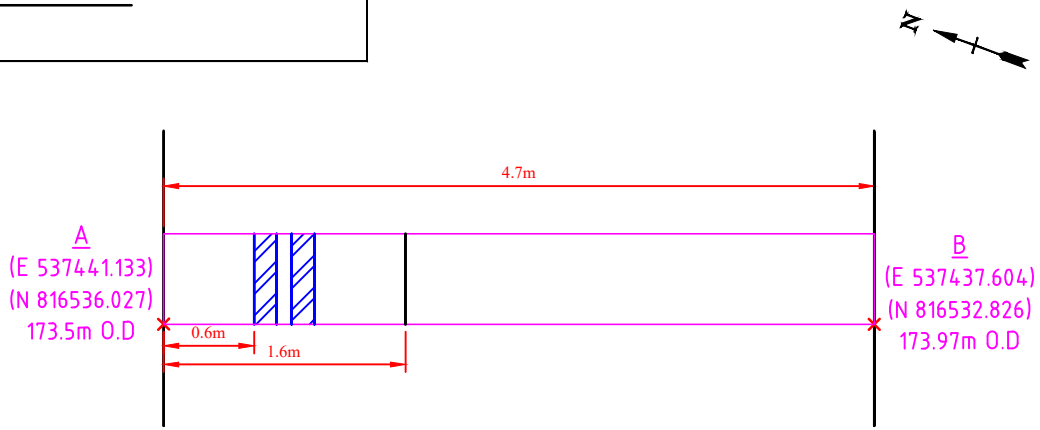
Trench Stable
Trench Dry

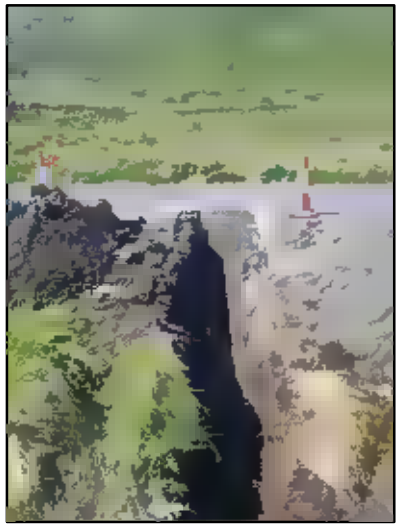
Ground Conditions:

GL-1.00 : (Made Ground) SANDS/GRAVEL
1.00-1.50 : Brown peaty SILT

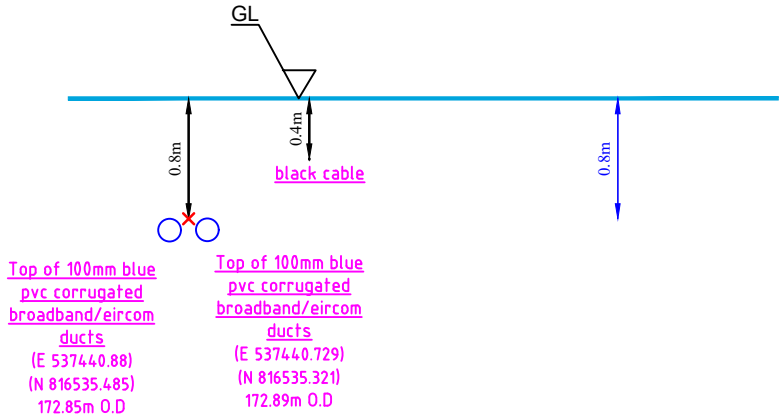
ST-TEL64 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.00m
Depth of Trench: 0.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.70m-0.80m

Notes:

Backfill : 804 and Bitumen

Remarks:

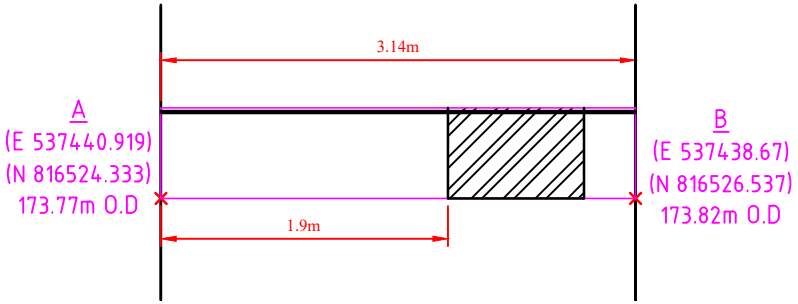
Trench Stable
Seepage around ducts

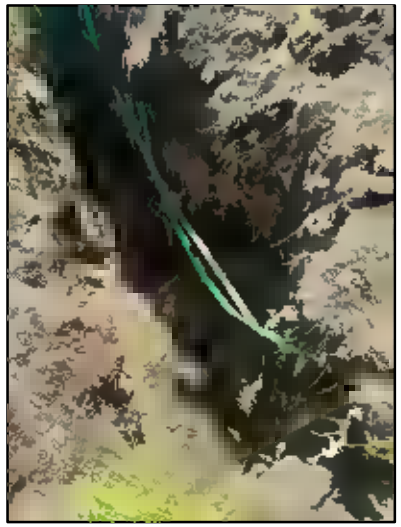
Ground Conditions:

GL-0.10 : Bitumen
0.10-0.30: Tarmac
0.30-0.80 : Grey brown very silty gravelly SAND
Gravel is fine to coarse angular to - sub-angular of limestone
0.80 : BOULDERS

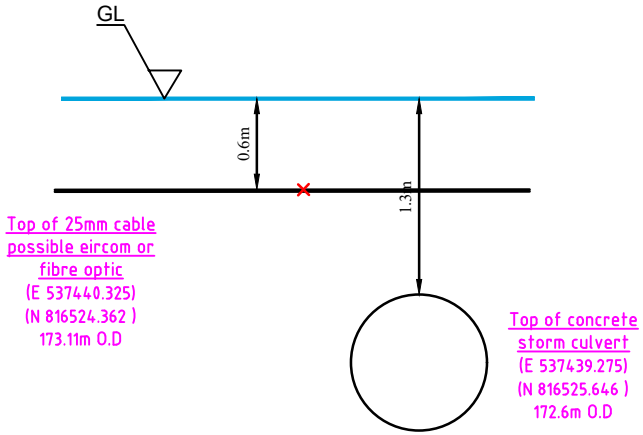
ST-TEL64A (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.14m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Notes:

Backfill : 804 and Topsoil

Remarks:

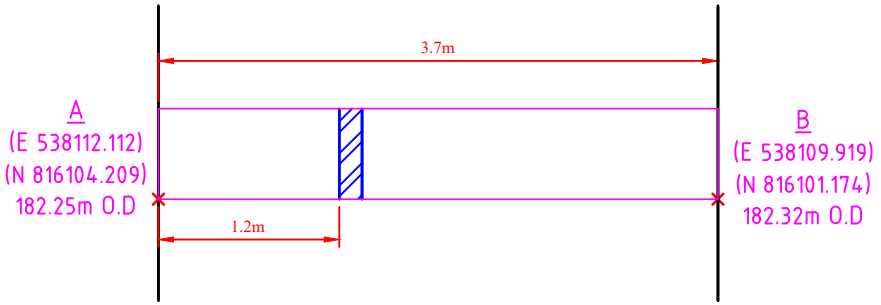
Trench Stable
Trench Dry

Ground Conditions:

GL-0.30 : (Made Ground) Brown gravelly sandy SILT
0.30-0.90 :(Made Ground) BOULDERS with much silty sand Boulders are sub-rounded to rounded ranging up to 0.50m of granite
0.90-1.60 : Dark brown plastic amorphous PEAT

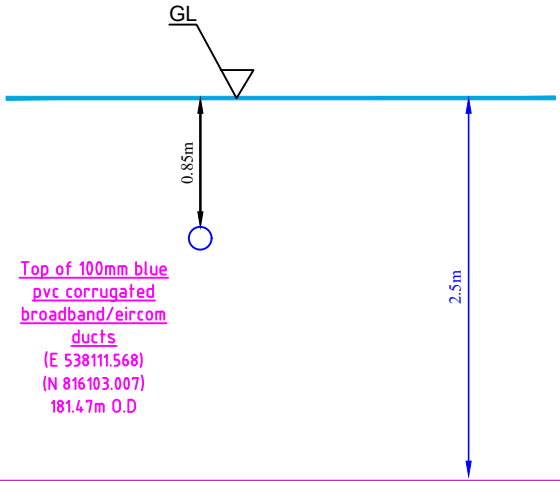
ST-TEL66 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.70m
Width of Trench: 1.00m
Depth of Trench: 2.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-0.60m
Bulk Bag Sample @ 1.50m-1.60m

Notes:

Backfill : 804 and Bitumen

Remarks:

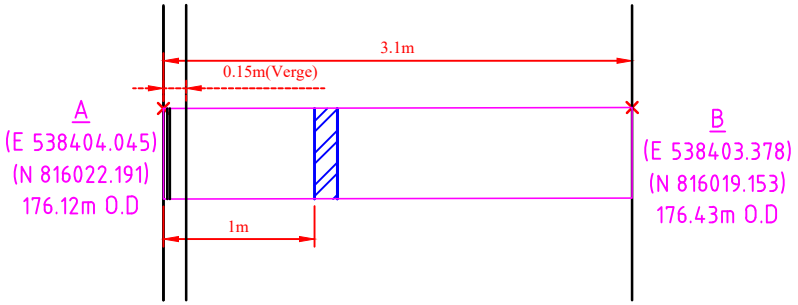
Trench Stable
Seepage @ 0.90m

Ground Conditions:

GL-0.08 : Bitumen
0.08-0.25: Tarmac
0.25-0.90 : (Made Ground) Grey brown slightly clayey silty sandy GRAVEL
Sand is fine to coarse
Gravel is angular to sub-angular of limestone
0.90-2.50 : Dark brown spongy pseudo fibrous PEAT

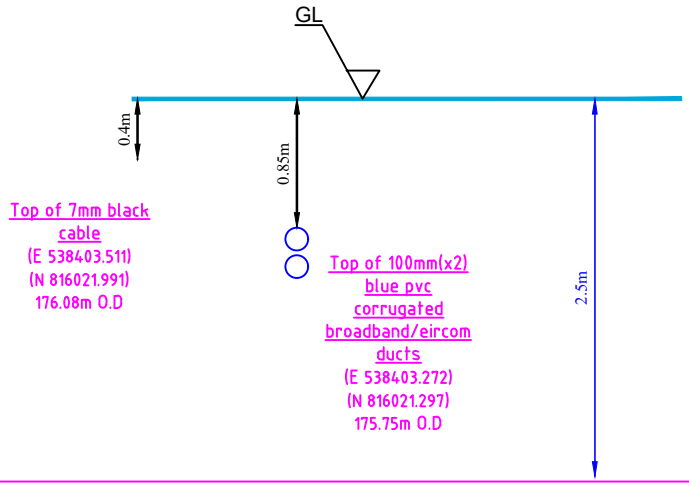
ST-TEL67 (Lough Talt) 20/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.00m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample

Notes:

Backfill : leanmix and Bitumen

Remarks:

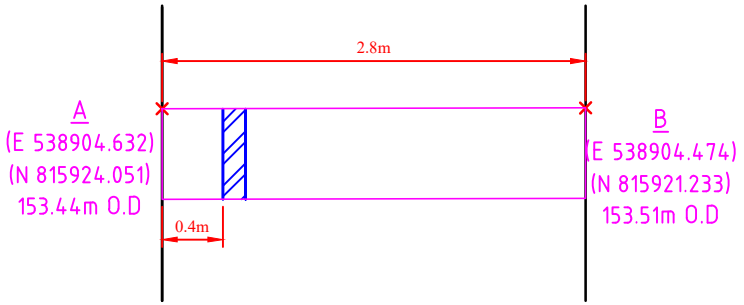
Trench Unstable
Trench Dry

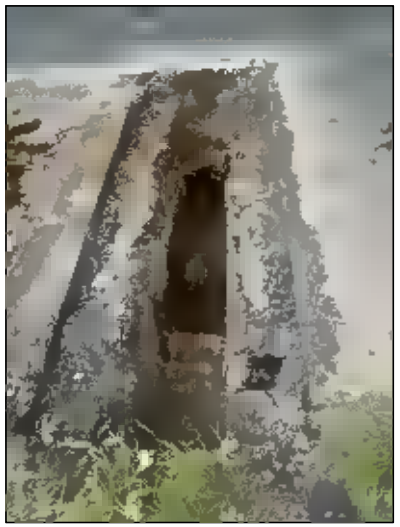
Ground Conditions:

GL-0.20 : Bitumen and Tarmac
0.20-0.40: Roadfill 804
0.40-2.00 : Firm brown gravelly sandy SILT with cobbles

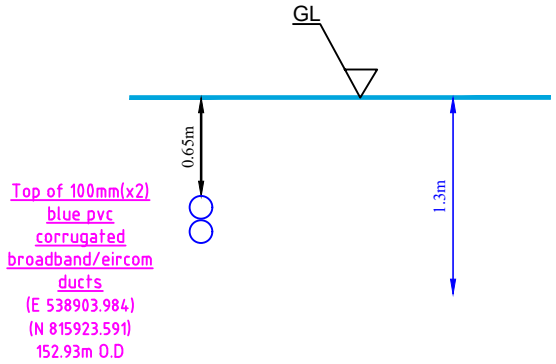
ST-TEL69 (Lough Talt) 20/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.80m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: DOR

Samples:
Bulk Bag Sample@ 0.5m-1.00m

Notes:

Backfill : leanmix and Bitumen

Remarks:

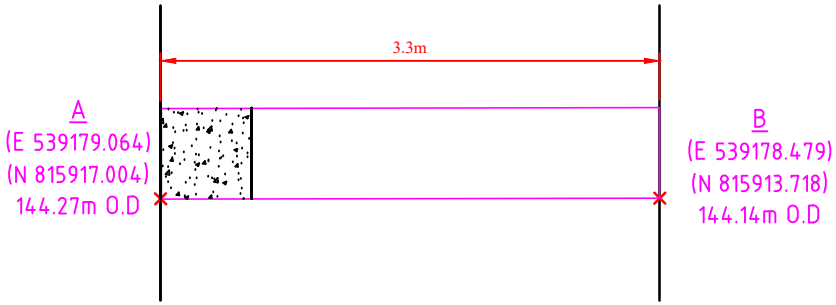
Trench Stable
Trench Dry

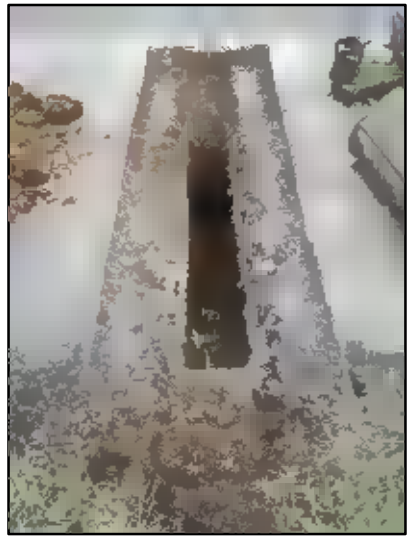
Ground Conditions:

GL-0.20 : Bitumen and Tarmac
0.20-0.50: Roadfill 804
0.50-1.30 : Stiff brown gravelly sandy SILT with a medium quantity of cobbles and a low boulder content

ST-TEL70 (Lough Talt) 23/06/2025 Scale : 1:50
Irish Drilling Limited

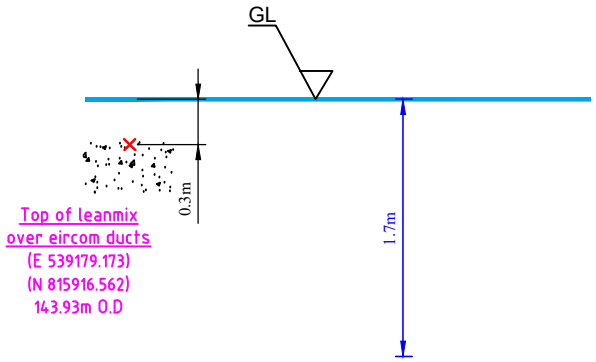
Plan







Section



Trench Dimensions:

Length of Trench: 3.30m
Width of Trench: 1.00m
Depth of Trench: 1.70m

Logged by: PC

Samples:
Bulk Bag Sample@ 0.80m-0.90m
Bulk Bag Sample@ 1.50m-1.60m

Notes:

Backfill : leanmix and Bitumen

Remarks:

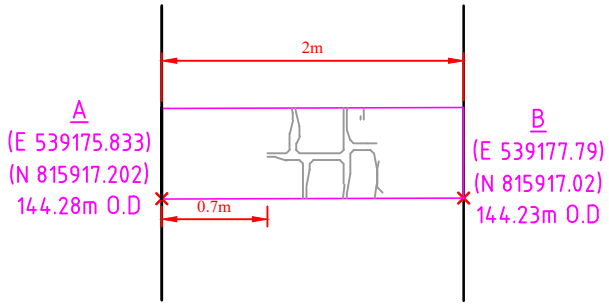
Trench Stable
Trench Dry

Ground Conditions:

GL-0.12 : Bitumen
0.12-0.25: Tarmac
0.25-0.55 : 804
0.55-1.05 : Brown silty sandy GRAVEL
1.05-1.70 : Grey brown gravelly very silty SAND with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
Cobbles are sub-angular to sub-rounded of limestone

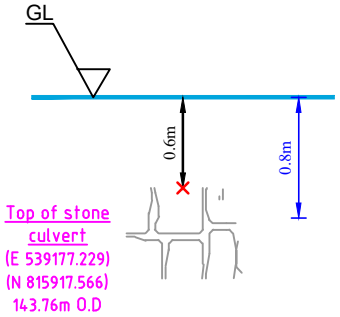
ST-TEL70A (Lough Talt) 23/06/2025 Scale : 1:50
Irish Drilling Limited

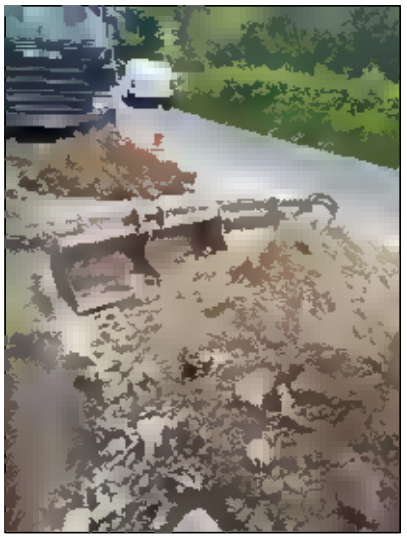
Plan





Section





Trench Dimensions:

Length of Trench: 2.00m
Width of Trench: 0.70m
Depth of Trench: 0.80m

Logged by: PC

Notes:

Backfill : 804 and Topsoil

Remarks:

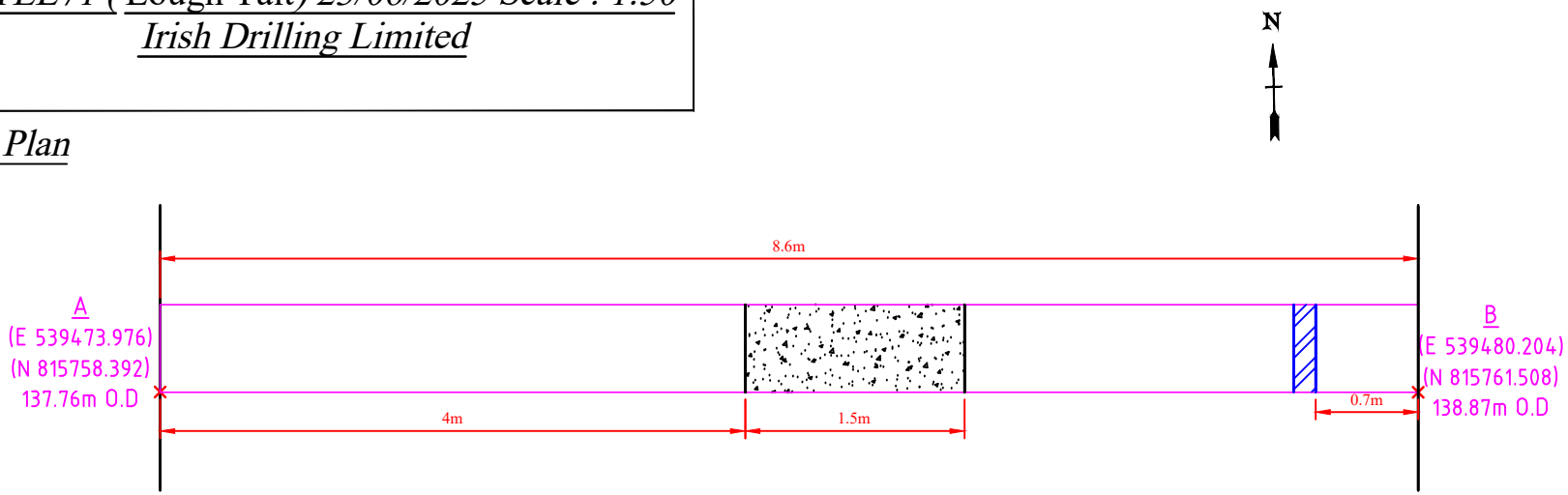
Trench Stable
Trench Dry

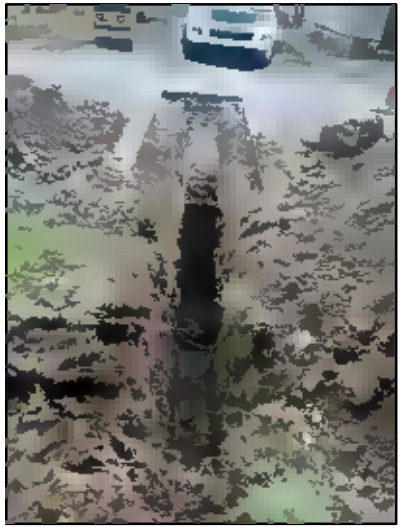
Ground Conditions:

GL-0.20 : Grass over a firm dark brown SILT
0.20-0.25: Tarmac
0.20-0.50 : COBBLES with much gravel
Gravel is fine to coarse sub-angular to sub-rounded
Cobbles are sub-rounded to rounded of limestone
0.50-0.80 : Brown silty sandy GRAVE with low cobbles
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
Cobbles are sub-rounded to rounded

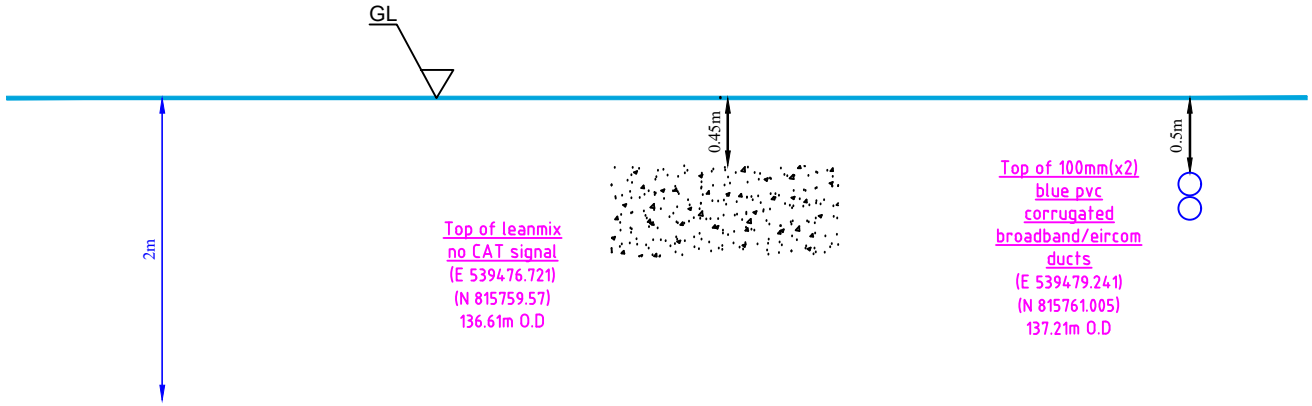
ST-TEL71 (Lough Talt) 23/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 8.60m
Width of Trench: 0.50m
Depth of Trench: 2.40m

Logged by: PC

Samples:
Bulk Bag Sample@ 1.50m-1.60m

Notes:

Backfill : leanmix and Bitumen

Remarks:

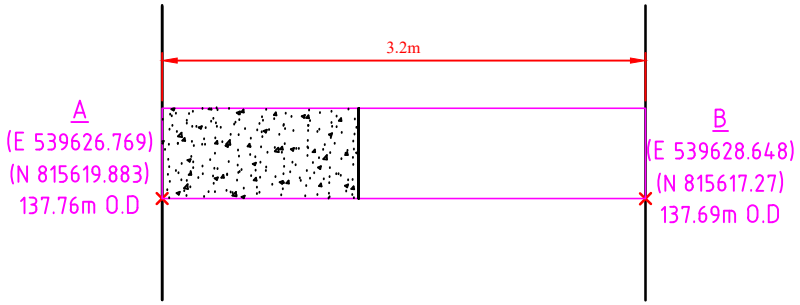
Trench Stable
Water ingress @ 2.40m rise up to 2.10m

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.30 : 804
0.30-1.20 : Brown very sandy GRAVEL
1.20-2.00 : Brown SAND
Sand content is fine to coarse
2.00-2.40 : Brown slightly clayey silty gravelly SAND
Sand content is fine to coarse
Gravel is fine to coarse angular to sub-angular

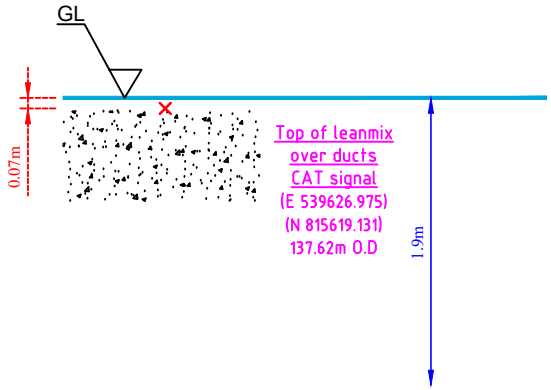
ST-TEL73 (Lough Talt) 24/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.10m
Width of Trench: 0.70m
Depth of Trench: 1.90m

Logged by: PC

Samples:
Bulk Bag Sample@ 1.80m-1.90m

Notes:

Backfill : 804 and Bitumen

Remarks:

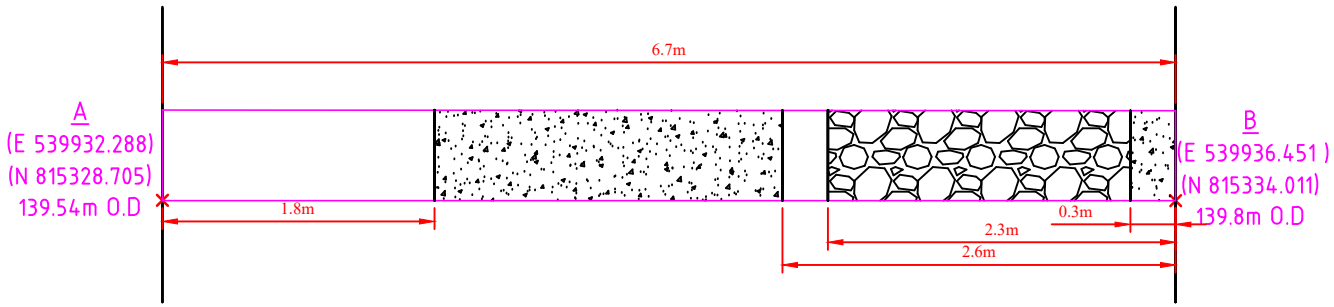
Trench Stable
Trench Dry

Ground Conditions:

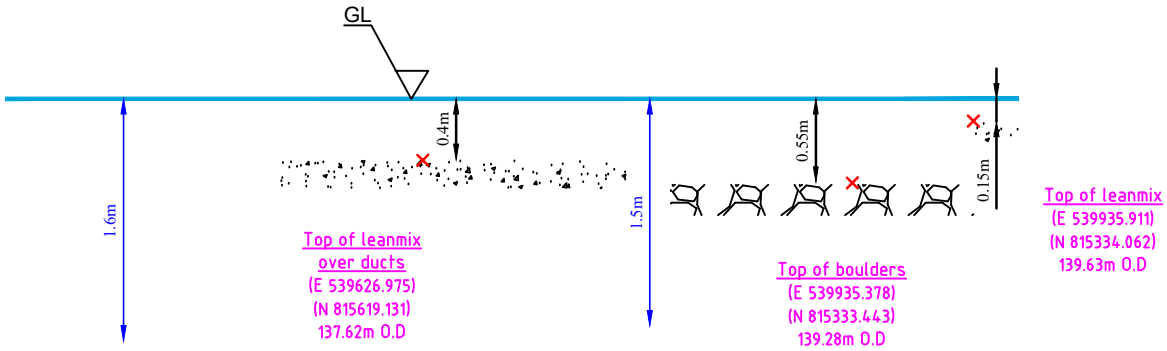
GL-0.10 : Bitumen
0.10-0.25 : Brown sandy GRAVEL
Sand content is fine to coarse
0.25-0.60 : Brown CLAY

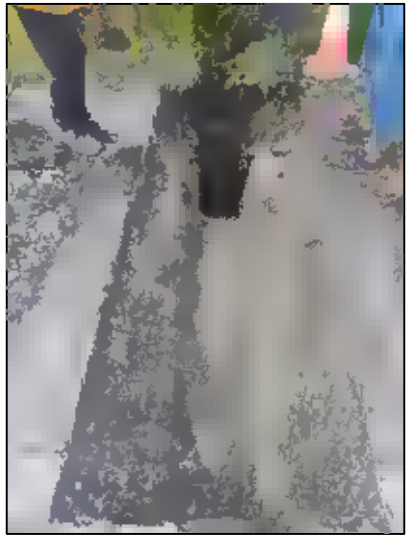
ST-TEL75 (Lough Talt) 24/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 6.70m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample@ 1.30m-1.40m

Notes:

Backfill : 804 and Bitumen

Remarks:

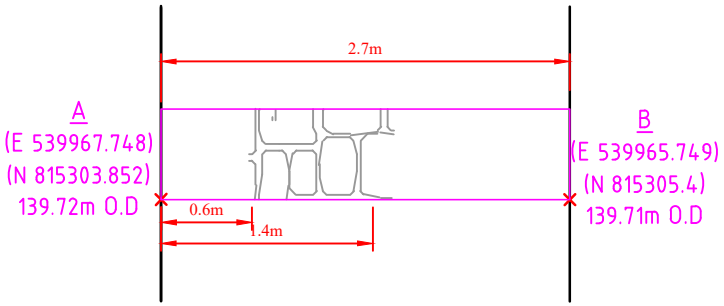
Trench Stable
Seepage @ 1.60m

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.15 : Tarmac
0.15-0.30 : 804
0.30-0.80 : Light brown silty sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to rounded
Cobbles are sub-angular to rounded of limestoneFirm
0.80-1.10 - Firm dark brown PEAT/SILT
1.10-1.60 : Light grey brown silty SAND

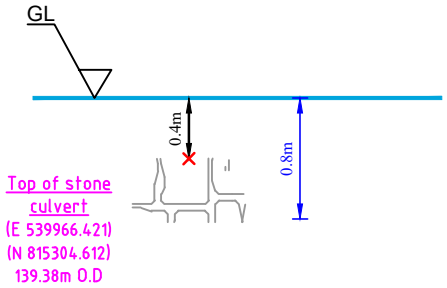
ST-TEL75A (Lough Talt) 24/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.70m
Width of Trench: 0.40m
Depth of Trench: 0.60m

Logged by: PC

Notes:

Backfill : 804 and Topsoil

Remarks:

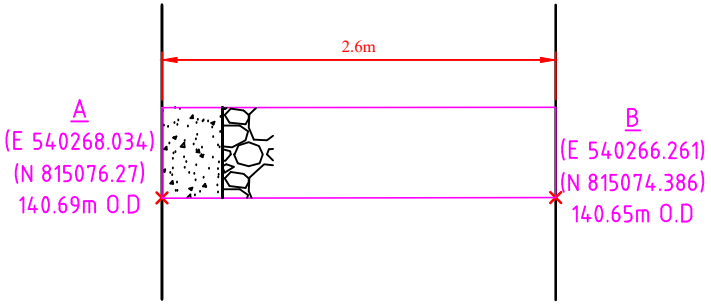
Trench Stable
Trench Dry

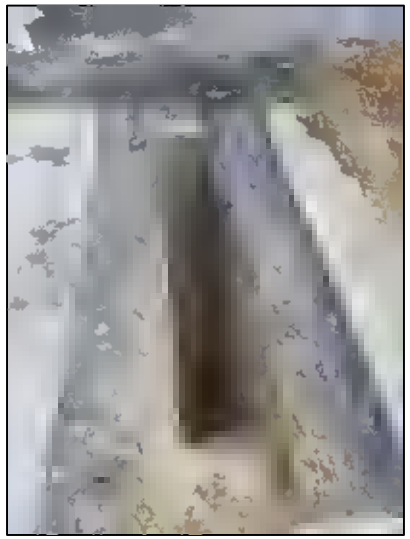
Ground Conditions:

GL-0.20 : Grass over a firm brown clayey sandy SILT
Sand content is fine to coarse
0.20-0.60 : Brown silty sandy GRAVEL
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded

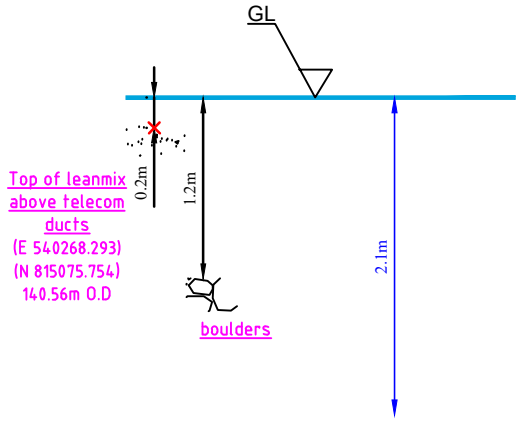
ST-TEL77 (Lough Talt) 24/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.60m
Width of Trench: 1.00m
Depth of Trench: 2.10m

Logged by: PC

Bulk Bag Sample @ 1.50m-1.60m

Notes:

Backfill : 804 and Bitumen

Remarks:

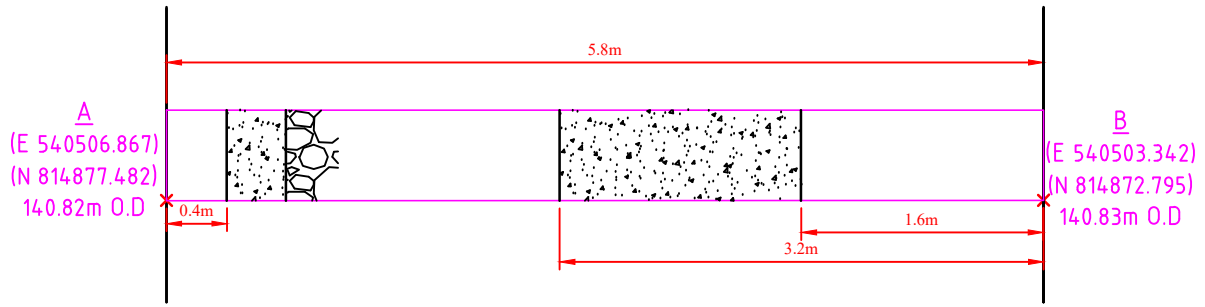
Trench Stable
Trench Dry

Ground Conditions:

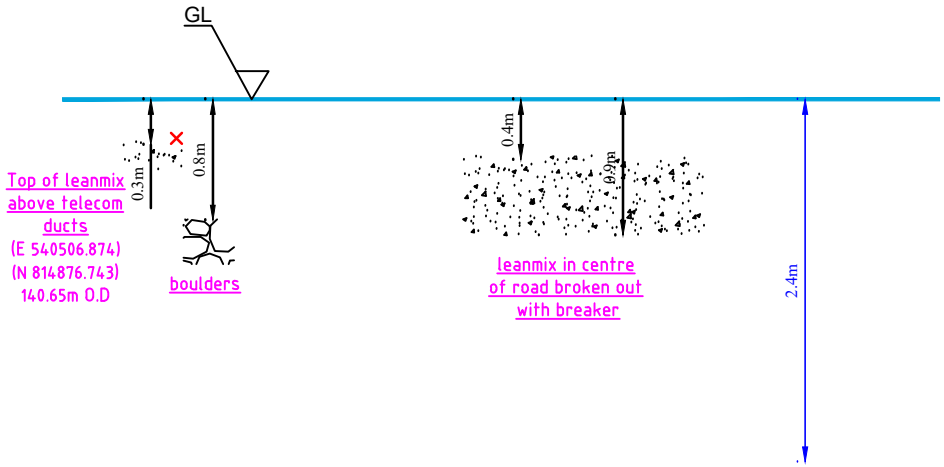
GL-0.08 : Bitumen
0.08-0.35 : Tarmac
0.35-0.55 : 804
0.55-1.35 : Light brown silty sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
1.35-2.10 - Firm light brown slightly gravelly sandy SILT

ST-TEL79 (Lough Talt) 25/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 2.40m

Logged by: PC

Bulk Bag Sample @ 0.50m-0.60m
Bulk Bag Sample @ 1.20m-1.30m

Notes:

Backfill : 804 and Bitumen

Remarks:

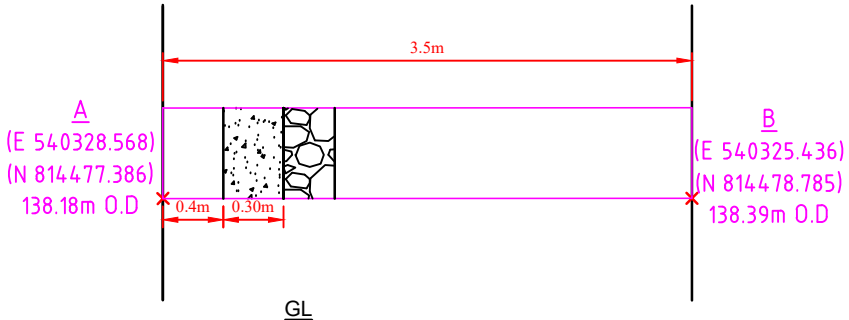
Trench Stable
Trench Dry

Ground Conditions:

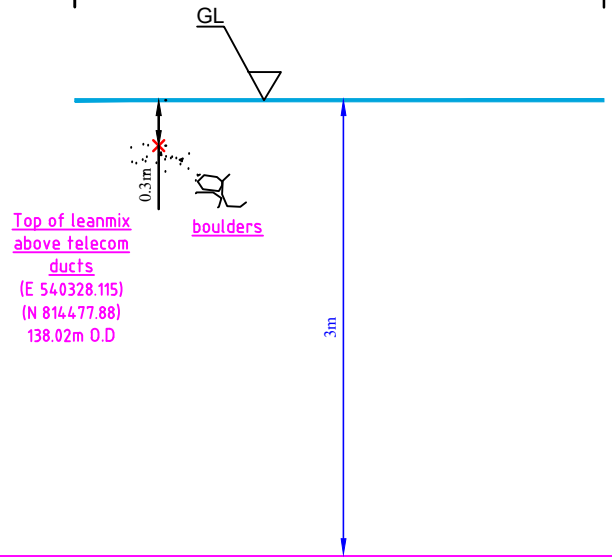
GL-0.10 : Bitumen
0.10-0.15 : Tarmac
0.15-0.80 : Light brown slightly clayay silty sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
0.80-1.80 - Soft damp brown slightly clayey/peaty gravelly sandy SILT
1.80-2.40 - Grey silty gravelly SAND

ST-TEL80 (Lough Talt) 25/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 3.50m
Width of Trench: 1.00m
Depth of Trench: 3.00m

Logged by: PC

Bulk Bag Sample @ 1.50m-1.60m

Notes:

Backfill : 804 and Bitumen

Remarks:

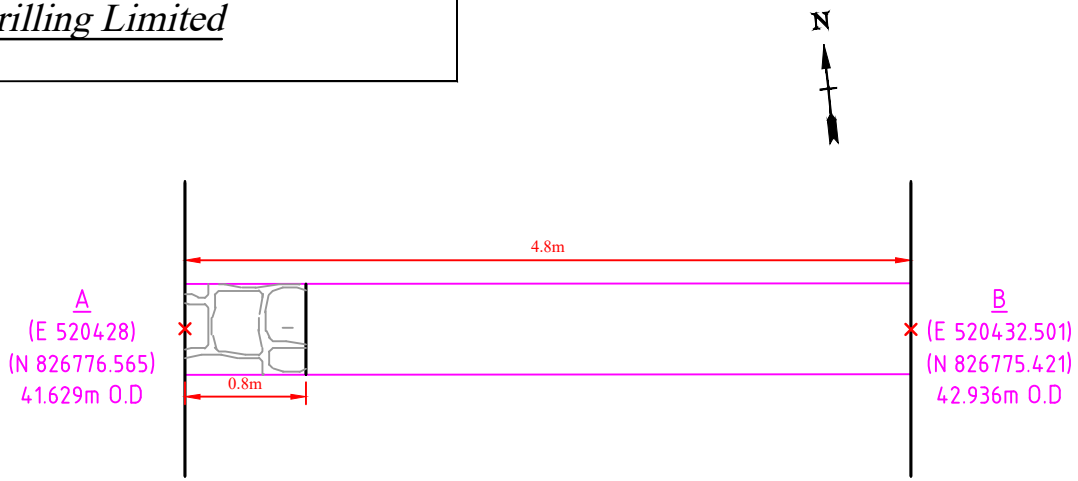
Trench Stable
Trench Dry

Ground Conditions:

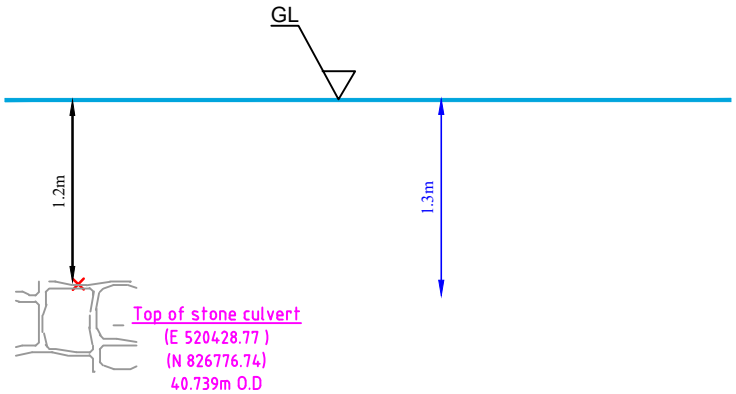
GL-0.12 : Bitumen
0.12-0.25 : Tarmac
0.25-0.60 : Brown silty sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
Cobbles are sub-angular to rounded of limestone
0.60-3.00 - Brown SAND and GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-rounded to rounded

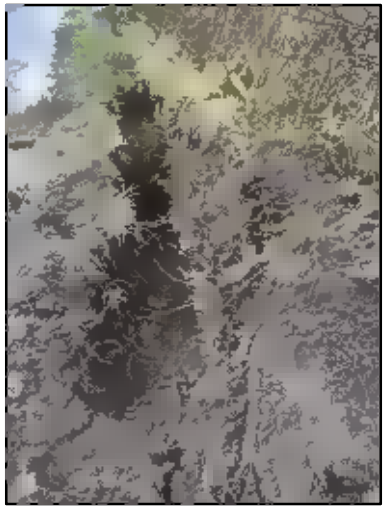
*ST-WC01 (*Lough Talt*) 18/02/2025 Scale : 1:50*
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.20m
Depth of Trench: 1.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

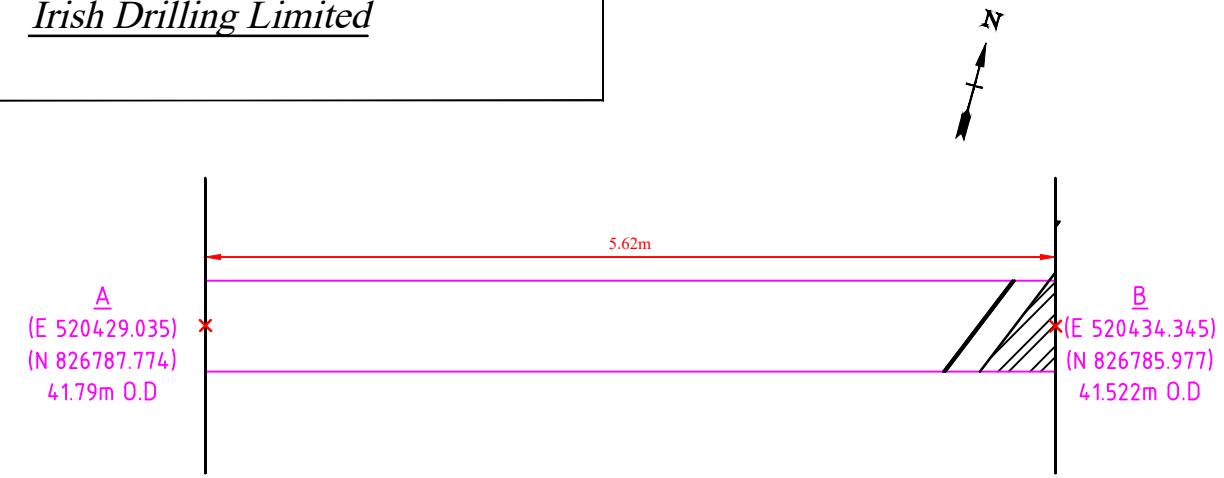
Trench Stable
Trench Dry

Ground Conditions:

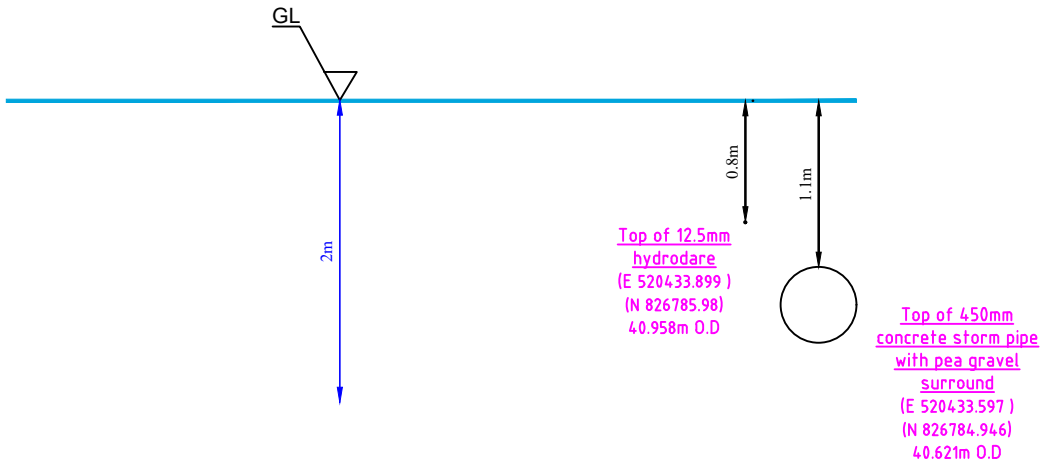
GL-0.40 : Soft dark brown gravelly SILT with rootlets
0.40-1.30 : Firm brown gravelly SILT

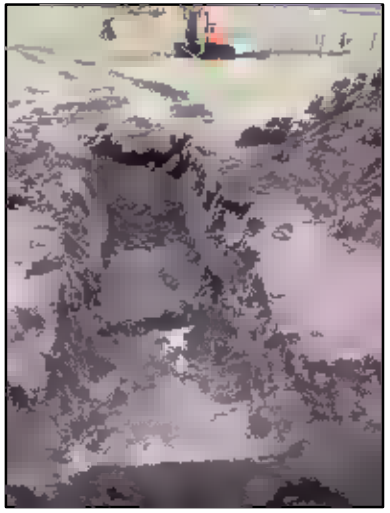
ST-WC01A (Lough Talt) 20/02/2025 Scale : 1:50
Irish Drilling Limited

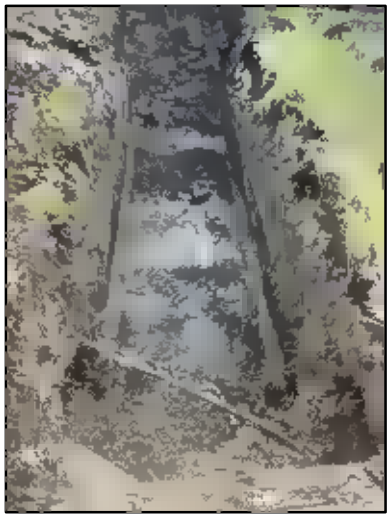
Plan



Section







Trench Dimensions:

Length of Trench: 5.62m
Width of Trench: 1.20m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

Ground Conditions:

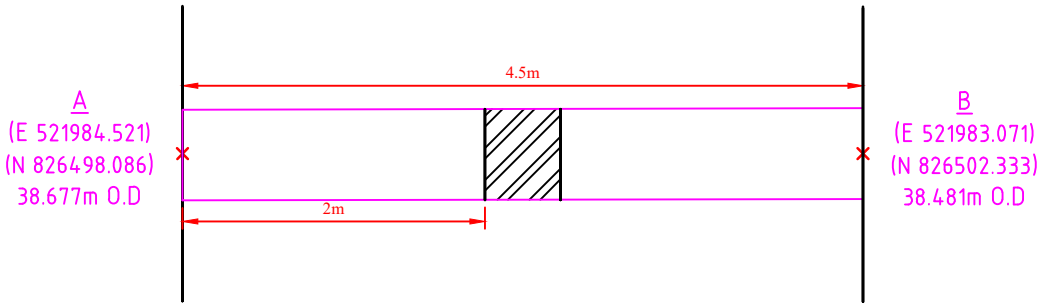
GL-0.20 : Soft dark brown gravelly SILT
0.20-2.00 : Stiff brown gravelly SILT with a low cobble content
Cobbles are angular to sub-angular limestone

*ST-WC02 (*Lough Talt*) 28/03/2025 Scale : 1:50*
Irish Drilling Limited

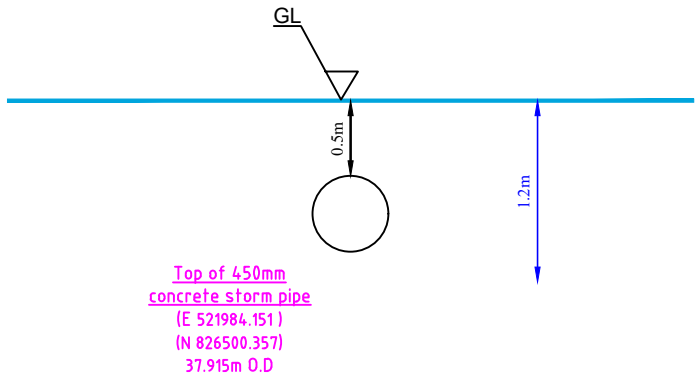




Plan



Section



Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

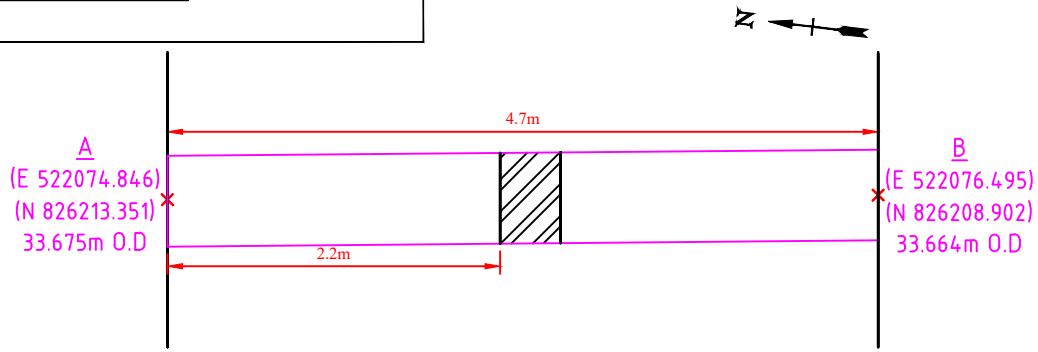
Trench Stable
Trench Dry

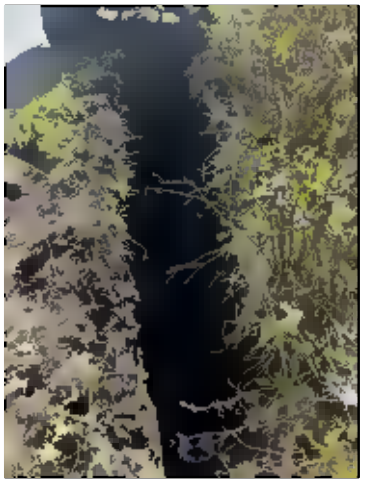
Ground Conditions:

GL-1.20 : Dark brown peaty gravelly SILT with cobbles and rootlets

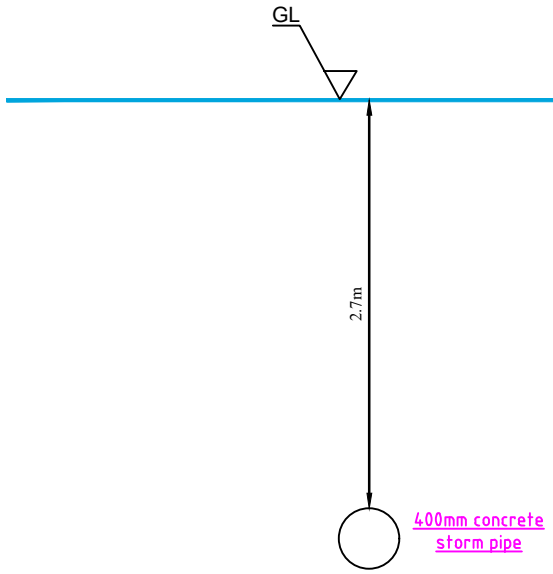
ST-WC3 (Lough Talt) 01/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 4.70m
Width of Trench: 1.00m
Depth of Trench: 3.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.50m-2.00m

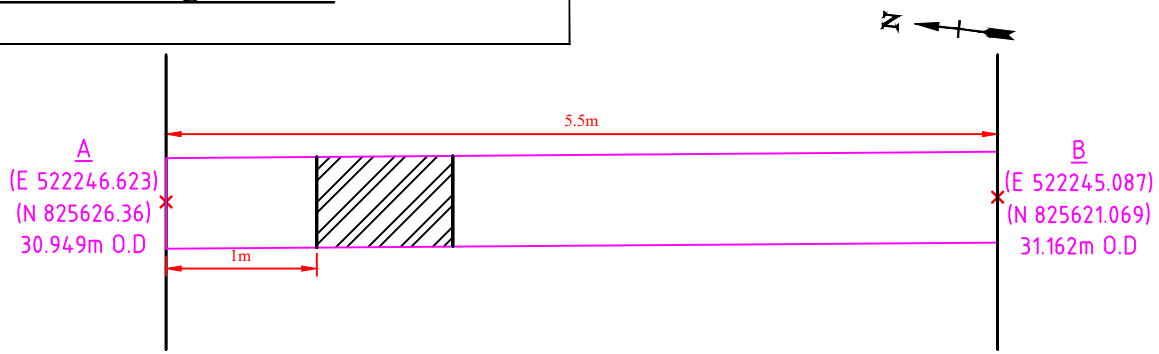
Notes:
Backfill : Arisings

Remarks:
Trench Unstable
Trench Dry

Ground Conditions:
GL-1.50 : (Made Ground)STONE, GRAVEL and SILT
1.50-3.00 : Firm brown gravelly SILT with cobbles

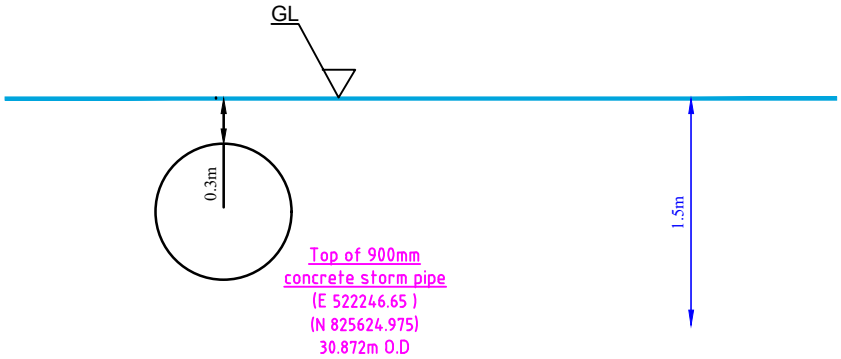
*ST-WC4 (*Lough Talt*) 03/04/2025 Scale : 1:50*
Irish Drilling Limited

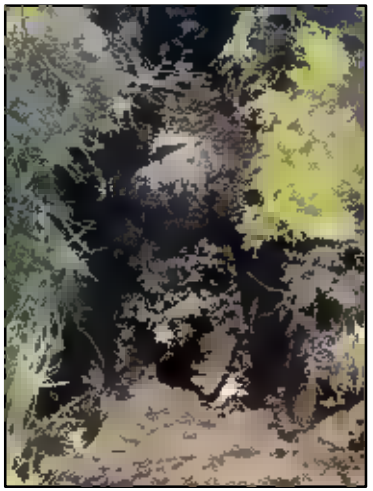
Plan





Section





Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

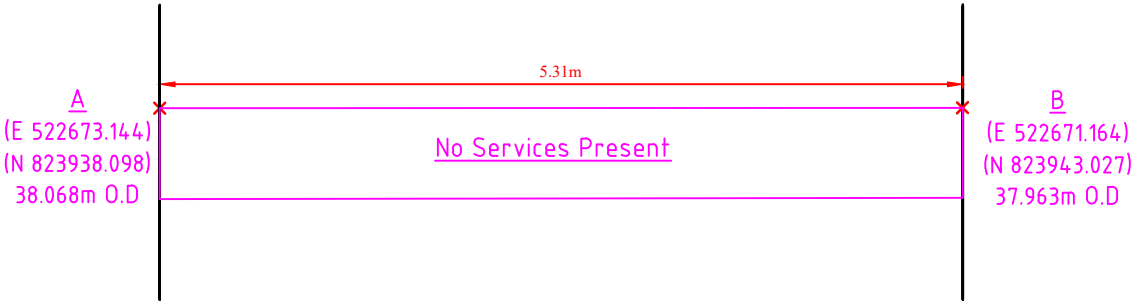
Trench Unstable
Trench Dry

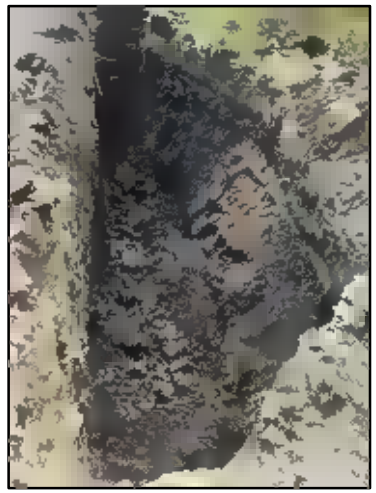
Ground Conditions:

GL-1.00 : (Made Ground)STONE, GRAVEL,SILT, WIRE and Plastic
1.00-1.50 : Soft dark brown PEAT

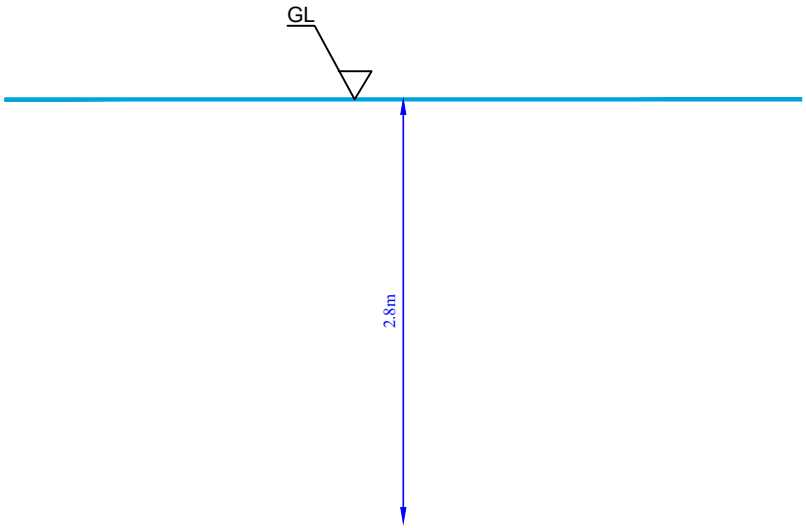
ST-WC07 (Lough Talt) 24/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 5.50m
Width of Trench: 1.00m
Depth of Trench: 2.80m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m
Environmental Sample @ 0.50m-1.00m

Notes:
Backfill : Arisings

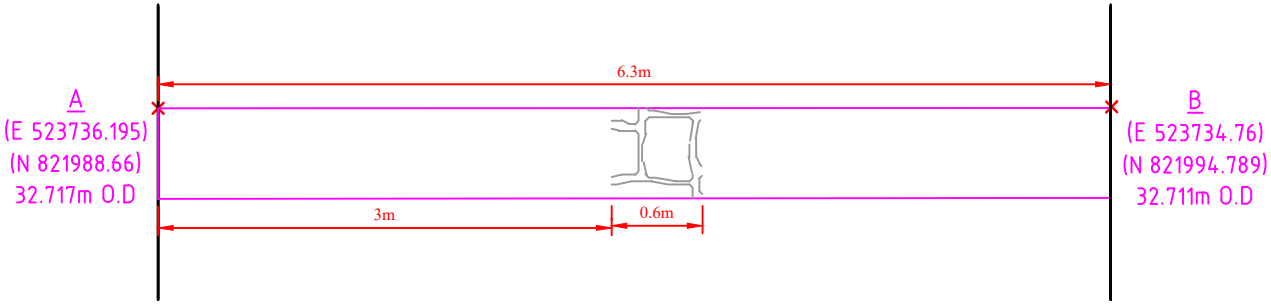
Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-1.30 : (Made Ground) GRAVEL
SILT STONE
1.30-2.00 : Soft brown PEAT/SILT
2.00-2.80 : Stiff grey gravelly SILT with a medium quantity of cobbles
Cobbles are sub-angular of limestone

*ST-WC09 (*Lough Talt*) 28/05/2025 Scale : 1:50*
Irish Drilling Limited

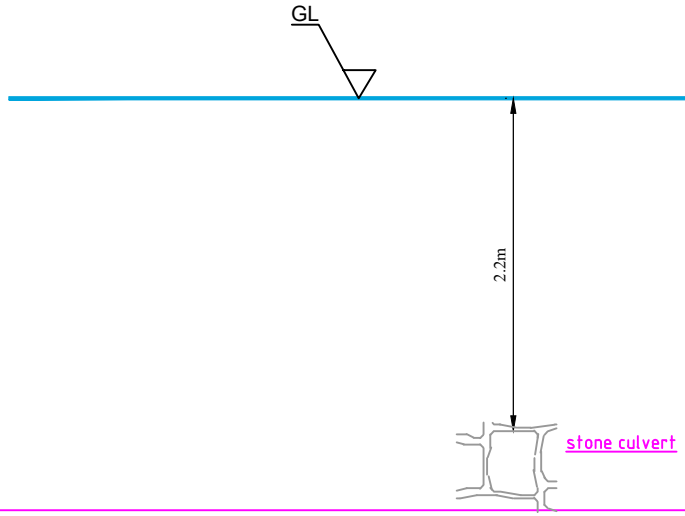
N

Plan





Section





Trench Dimensions:

Length of Trench: 7.00m
Width of Trench: 1.00m
Depth of Trench: 2.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

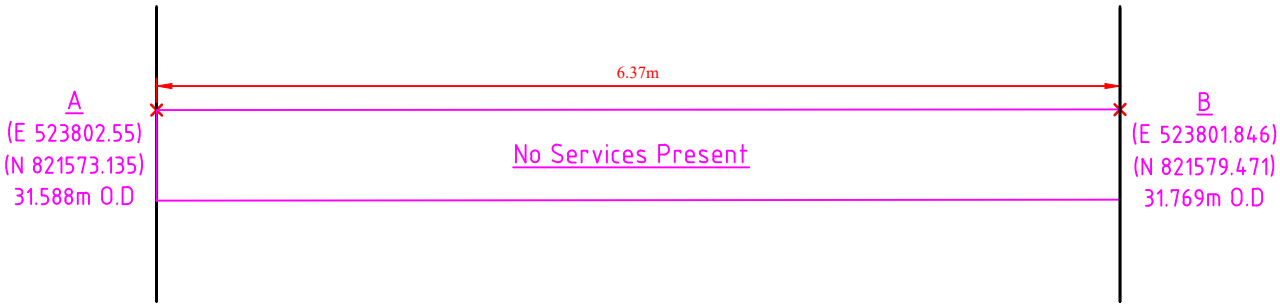
Trench Stable
Trench Dry

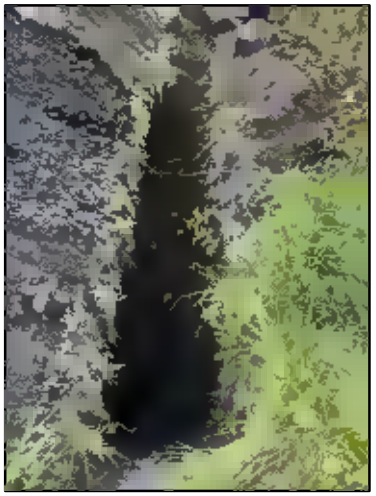
Ground Conditions:

GL-1.80 : (Made Ground) Stone 804 gravelly SILT
1.80-2.60 : Dark brown soft PEAT

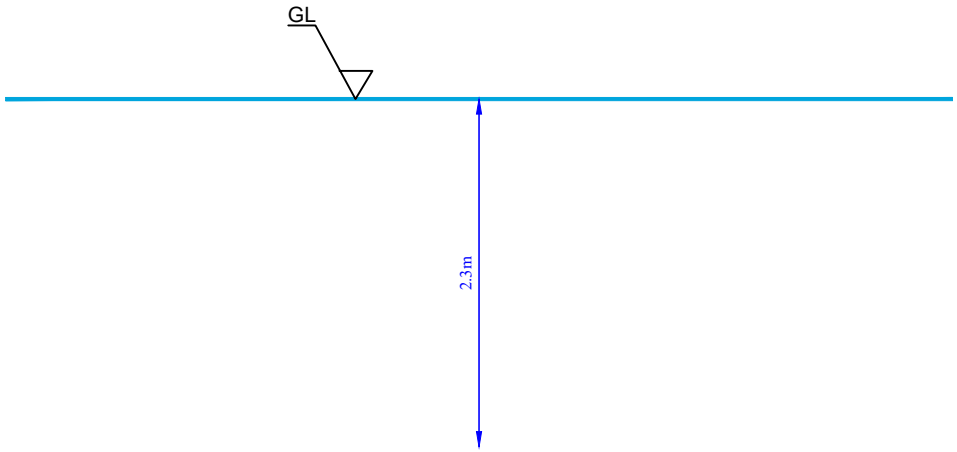
*ST-WC10 (*Lough Talt*) 12/05/2025 Scale : 1:50*
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 6.37m
Width of Trench: 1.00m
Depth of Trench: 2.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

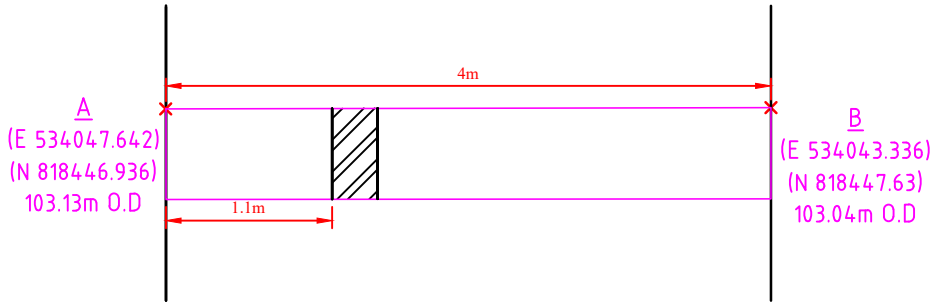
Trench Sides Unstable
Trench Dry

Ground Conditions:

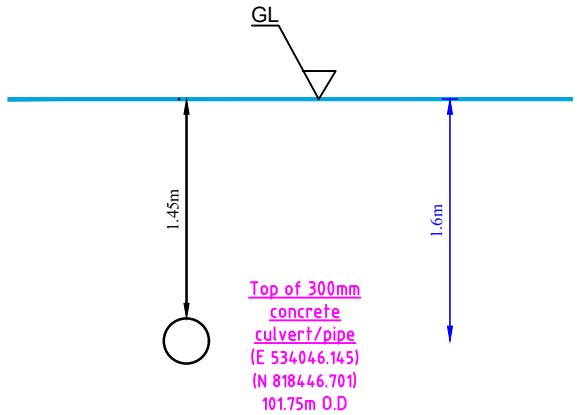
GL-2.30 : (Made Ground) Stone 804 GRAVEL

ST-WC16 (Lough Talt) 10/03/2025 Scale : 1:50
Irish Drilling Limited

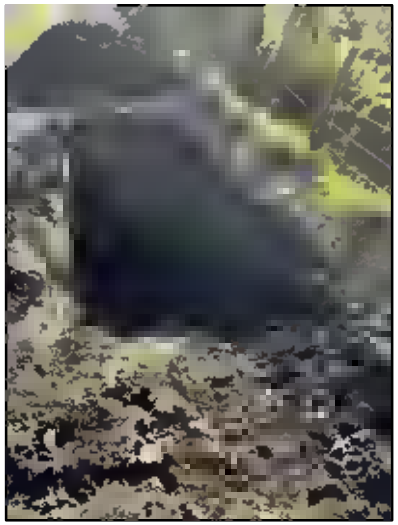
Plan



Section







Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : 804

Remarks:

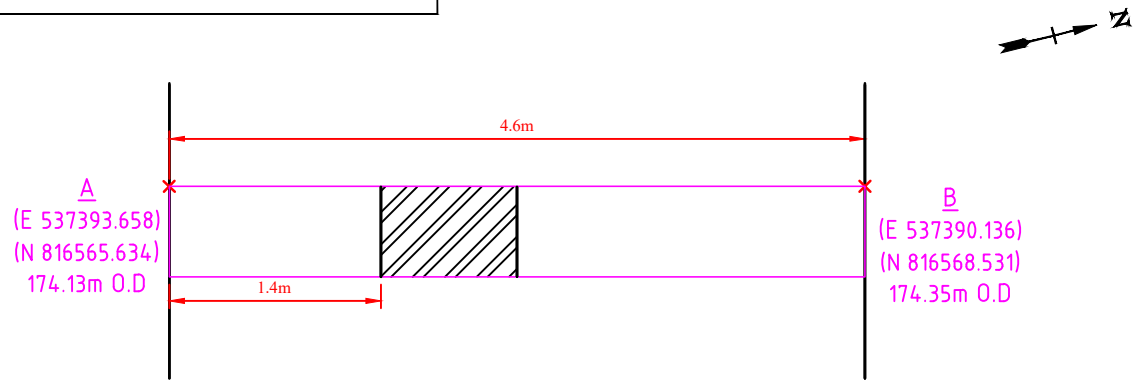
Trench Stable
Trench Dry

Ground Conditions:

GL-0.40 : Stone/GRAVEL
0.40-1.60 : Firm brown gravelly sandy SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded

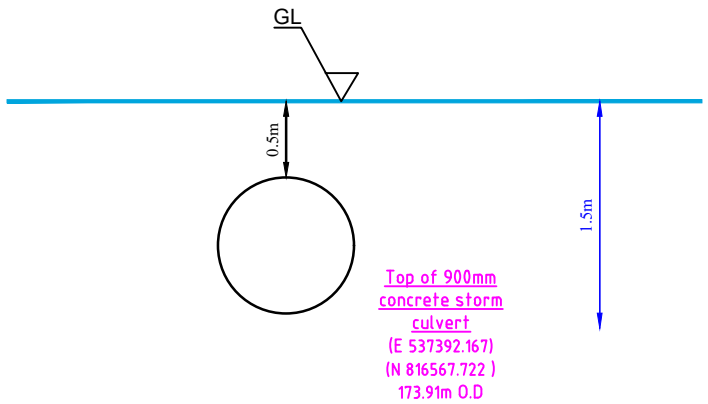
*ST-WC17 (*Lough Talt*) 27/06/2025 Scale : 1:50*
Irish Drilling Limited

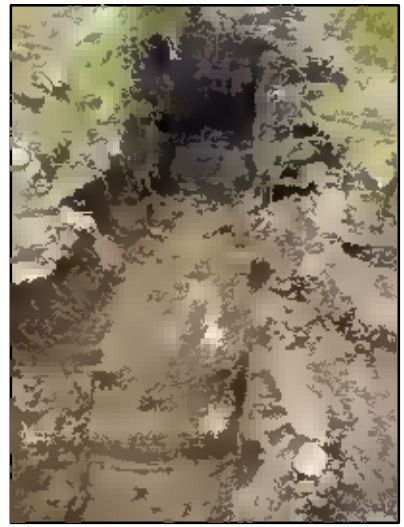
Plan





Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

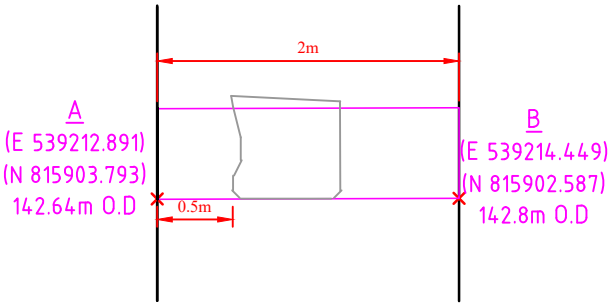
Trench Stable
Trench Dry

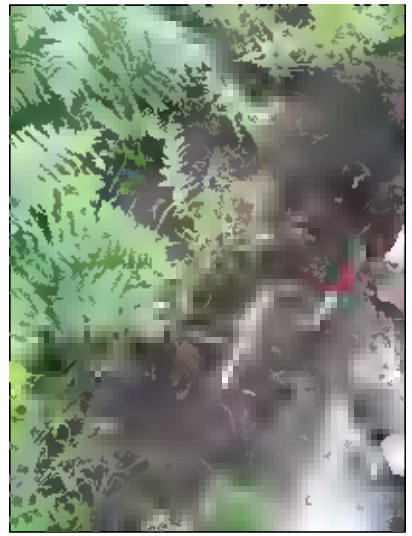
Ground Conditions:

GL-1.00 : (Made Ground) Brown gravelly SAND
1.00-1.50 : Soft brown PEAT

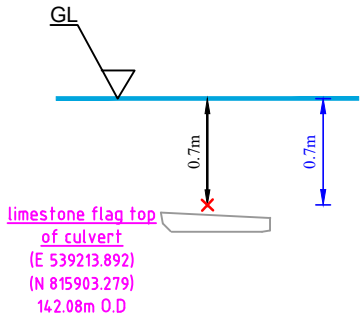
ST-WC21 (Lough Talt) 23/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.00m
Width of Trench: 0.50m
Depth of Trench: 0.70m

Logged by: PC

Notes:

Backfill : 804 and Topsoil

Remarks:

Trench Stable
Trench Dry

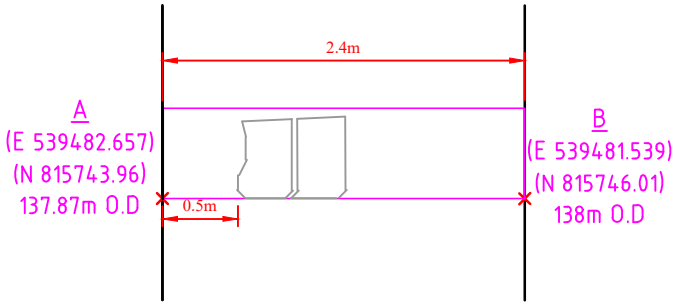
Ground Conditions:

GL-0.20 : Grass over a firm brown gravelly sandy SILT
0.20-0.70 : COBBLES with much silty sand and a low quantity of cobbles
Sand content is fine to coarse
Cobbles are sub-rounded to rounded of limestone
Boulders are sub-angular to sub-rounded ranging up to 0.30m

ST-WC22 (Lough Talt) 23/06/2025 Scale : 1:50
Irish Drilling Limited

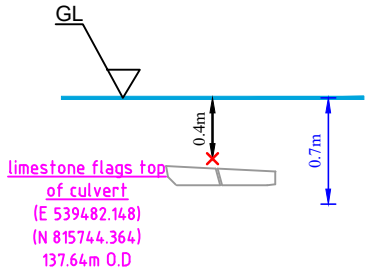
N

Plan





Section





Trench Dimensions:

Length of Trench: 2.40m
Width of Trench: 0.50m
Depth of Trench: 0.40m

Logged by: PC

Samples:
Bulk Bag Sample@ 0.30m-0.40m

Notes:

Backfill : 804 and Topsoil

Remarks:

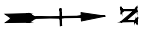
Trench Stable
Trench Dry

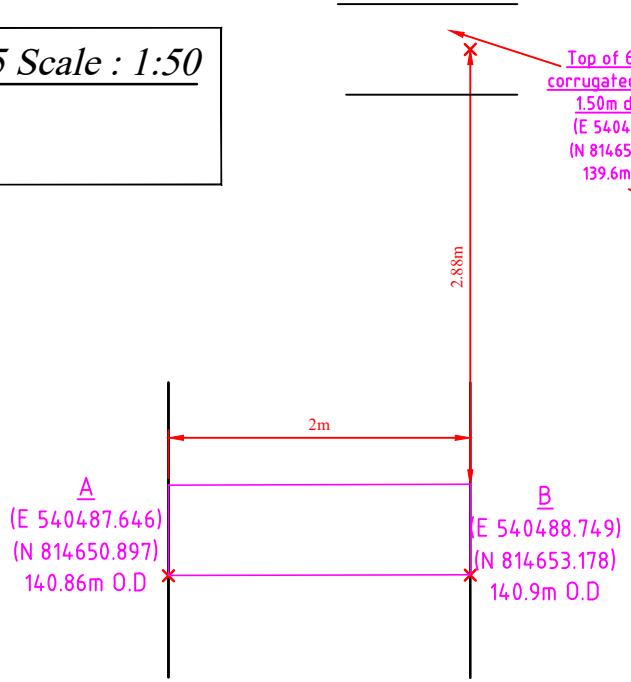
Ground Conditions:

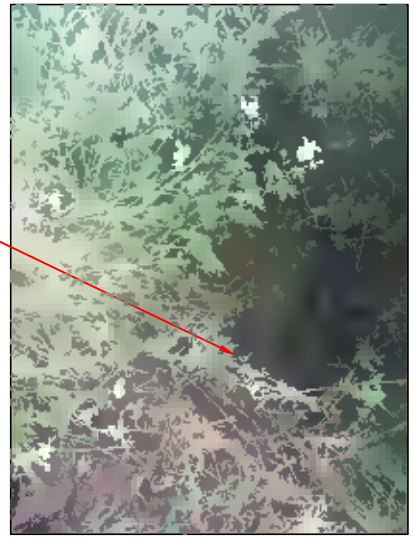
GL-0.20 : Grass over a dark brown silty GRAVEL
0.20-0.40 : Brown silty sandy GRAVEL with a low cobble content
Sand content is fine to coarse
Gravel is fine to coarse sub-angular to rounded
Cobbles are sub-angular to rounded of limestone

*ST-WC23 (*Lough Talt*) 25/06/2025 Scale : 1:50*
Irish Drilling Limited

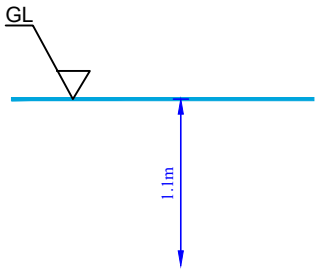
Plan







Section





Trench Dimensions:

Length of Trench: 2.00m
Width of Trench: 1.00m
Depth of Trench: 1.10m

Logged by: PC

Bulk Bag Sample @ 0.50m-0.60m

Notes:

Backfill : 804 and Topsoil

Remarks:

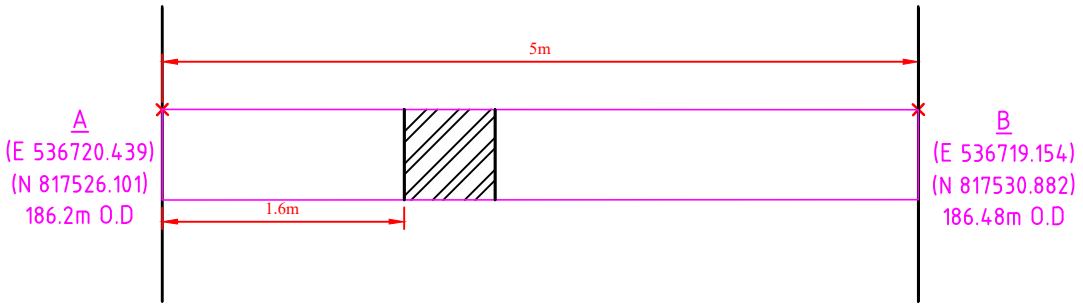
Trench Stable
Trench Dry

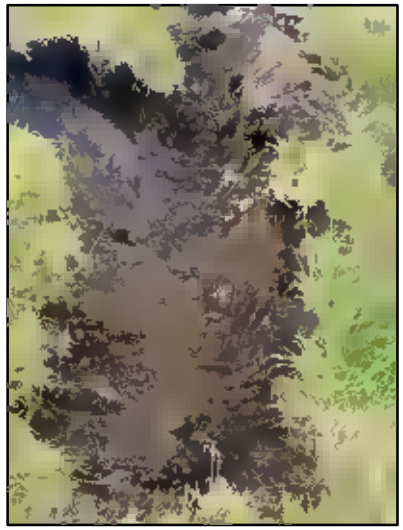
Ground Conditions:

GL-0.20 : Grass over COBBLES and boulders with much slightly clayey sandy gravel
Sand content is fine to coarse
Gravel is fine to coarse angular to sub-rounded
Cobbles are sub-rounded to rounded of limestone

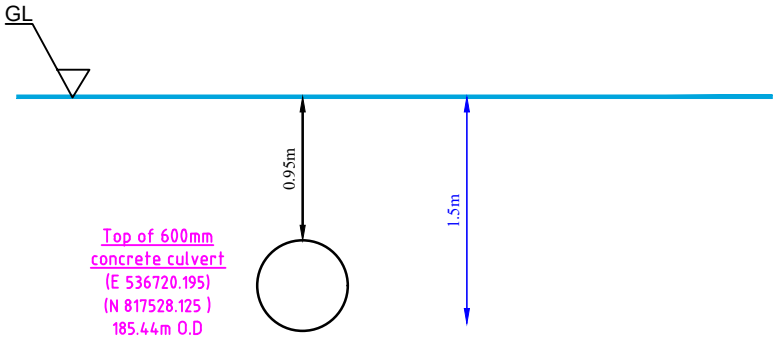
ST-WC24 (Lough Talt) 20/06/2025 Scale : 1:50
Irish Drilling Limited

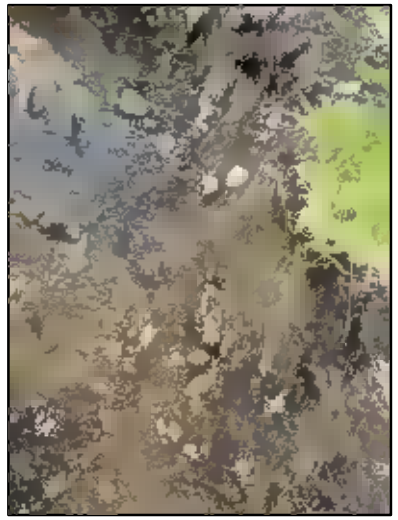
Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

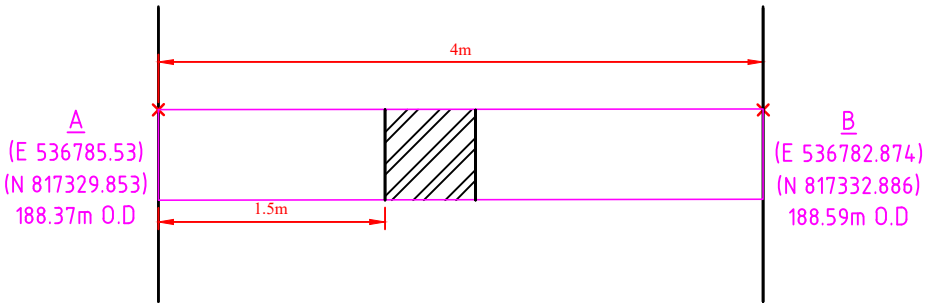
Trench Unstable
Trench Dry

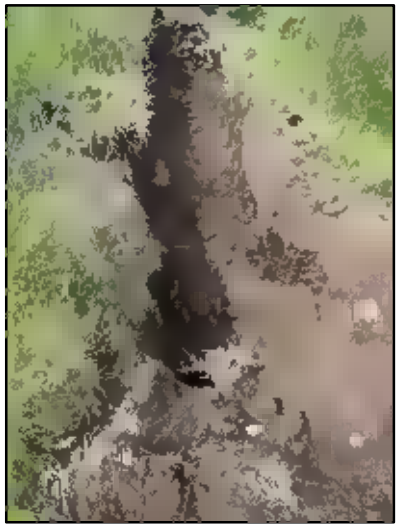
Ground Conditions:

GL-0.20 : Dark brown PEAT topsoil
0.20-1.50 : Brown gravelly sandy SILT with a high quantity of cobbles and boulders

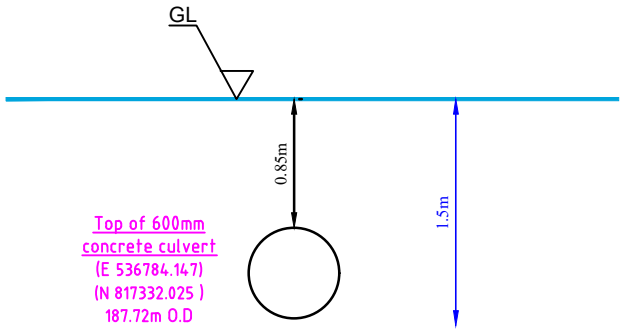
ST-WC24A (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.10m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

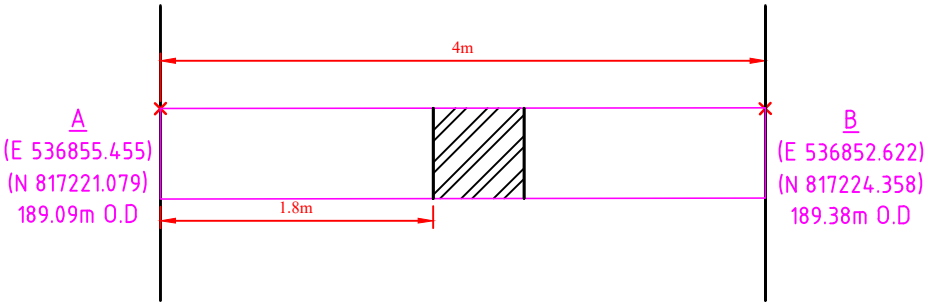
Trench Unstable
Trench Dry

Ground Conditions:

GL-1.50 : (Made Ground)SAND/GRAVEL/COBBLES and BOULDERS

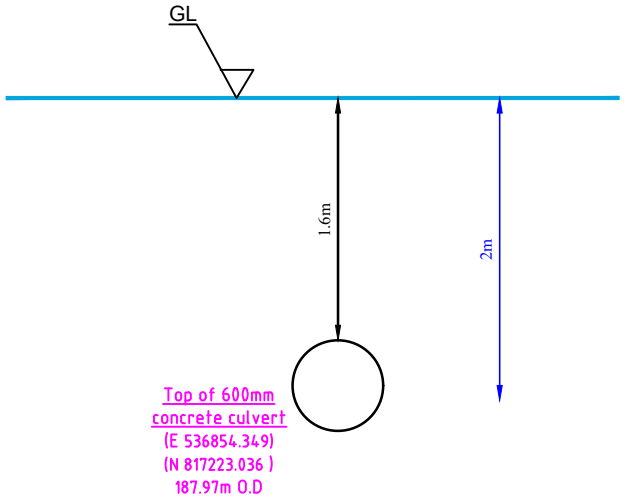
ST-WC24B (Lough Talt) 26/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

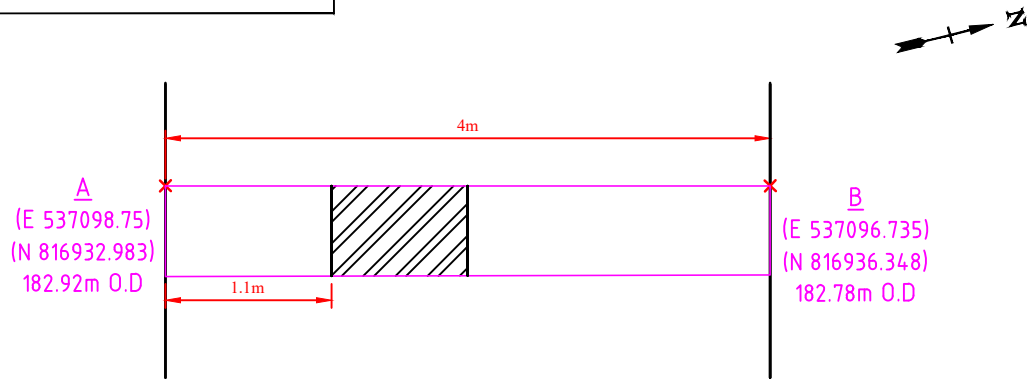
Notes:
Backfill : Arisings

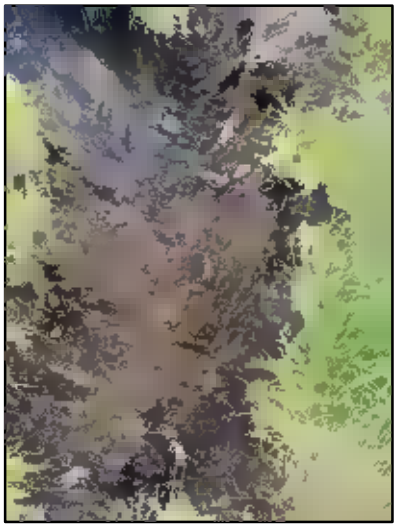
Remarks:
Trench Unstable
Trench Dry

Ground Conditions:
GL-1.20:(Made Ground)
STONE/GRAVEL and SILT
1.20-2.00 : Soft brown peaty SILT

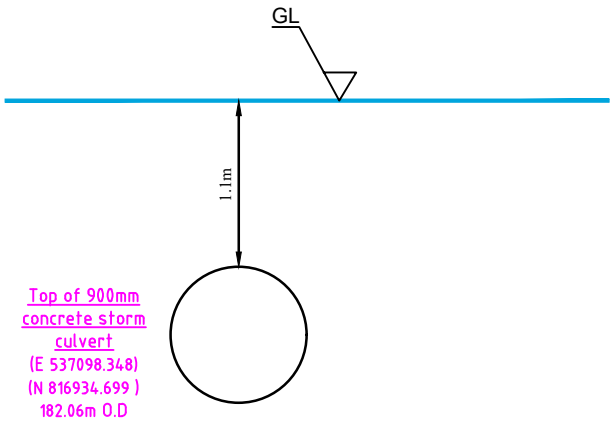
ST-WC24C (Lough Talt) 24/06/2025 Scale : 1:50
Irish Drilling Limited

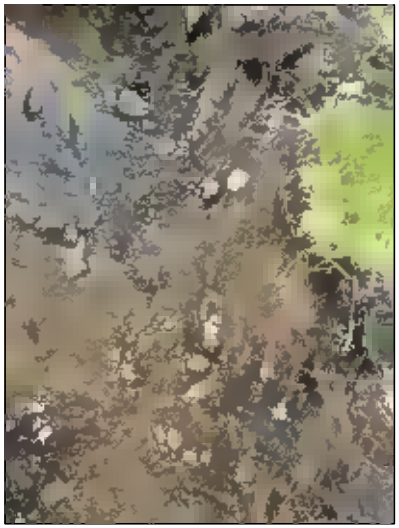
Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

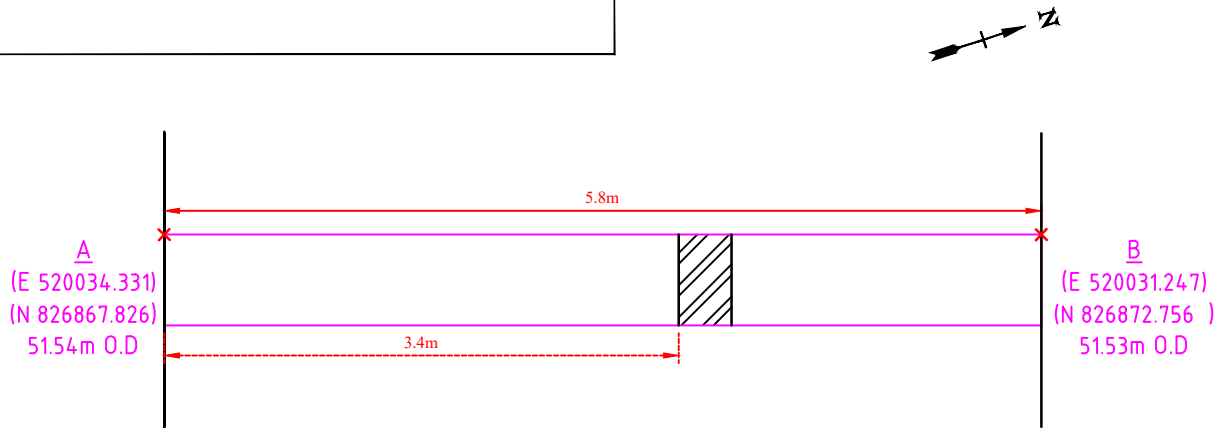
Trench Unstable
Trench Dry

Ground Conditions:

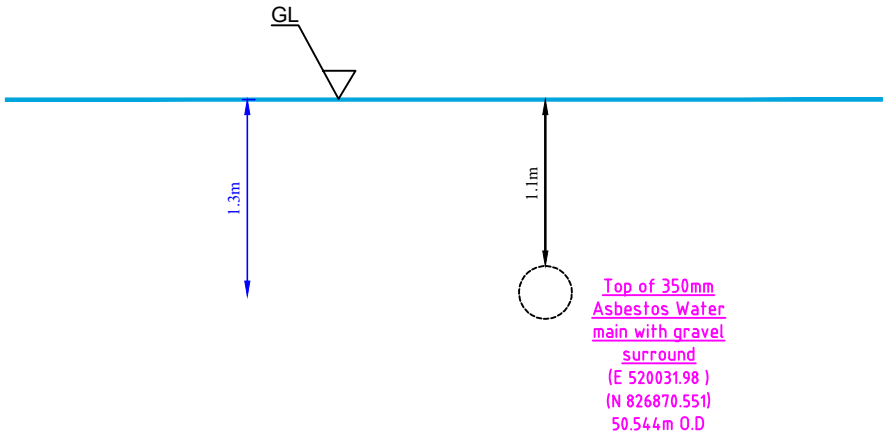
GL-0.50 : Brown gravelly SAND and COBBLES

ST-WM-01 (Lough Talt) 17/02/2025 Scale : 1:50
Irish Drilling Limited

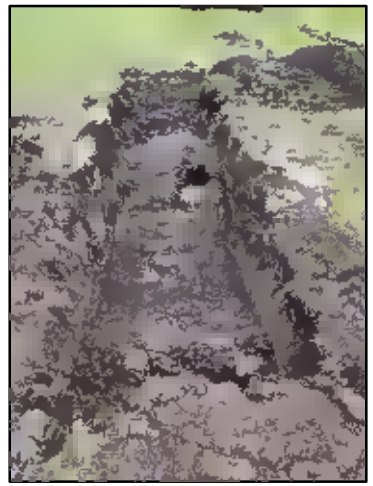
Plan



Section







Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.20m
Depth of Trench: 1.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

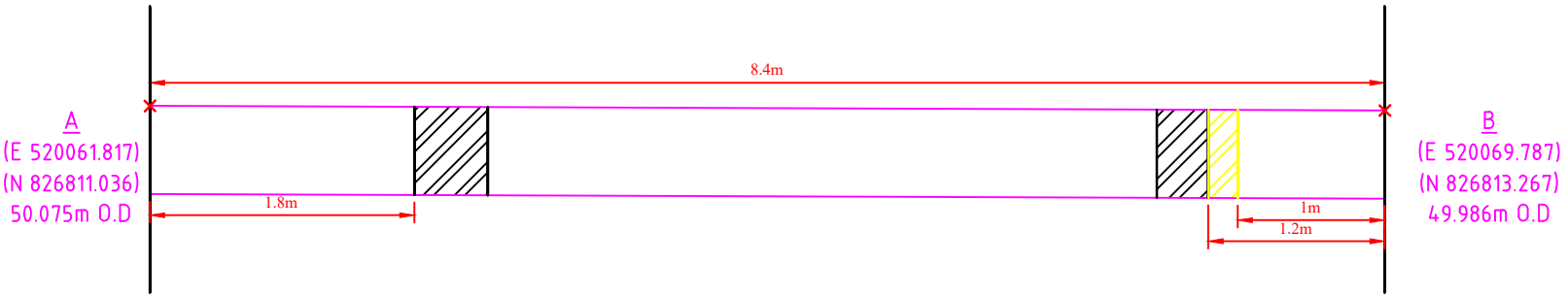
Trench Stable
Trench Dry

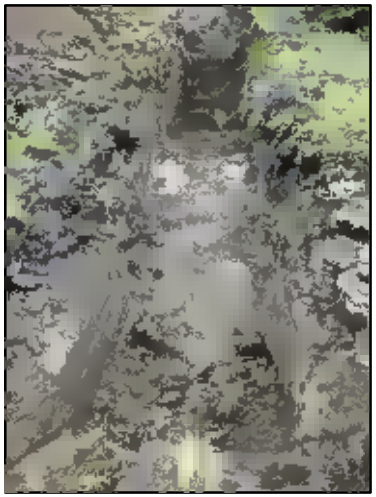
Ground Conditions:

GL-0.20 : Soft dark brown gravelly SILT
0.20-1.30 : Stiff brown gravelly SILT with a medium cobble content
Cobbles are angular to sub-angular limestone

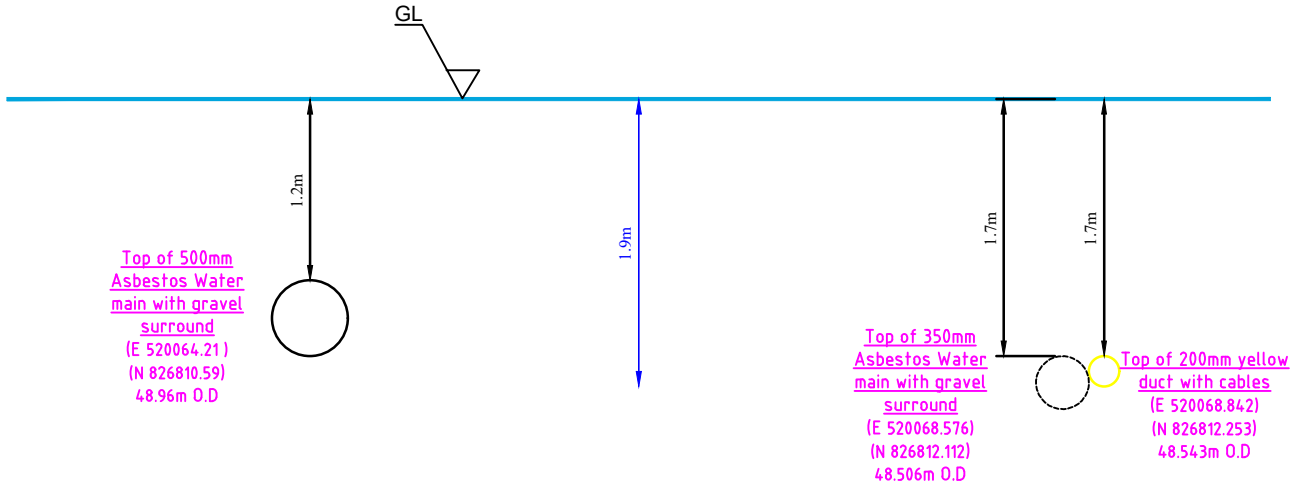
ST-WM-02 (Lough Talt) 17/02/2025 Scale : 1:50
Irish Drilling Limited

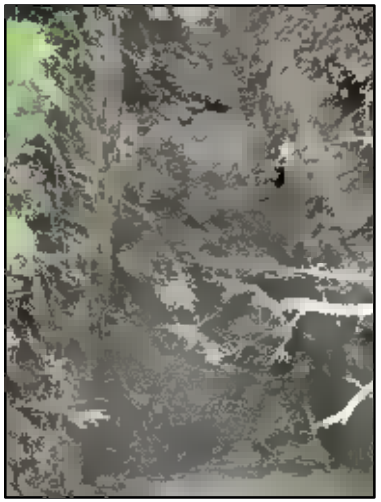
Plan





Section





Trench Dimensions:

Length of Trench: 8.40m
Width of Trench: 1.20m
Depth of Trench: 1.90m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

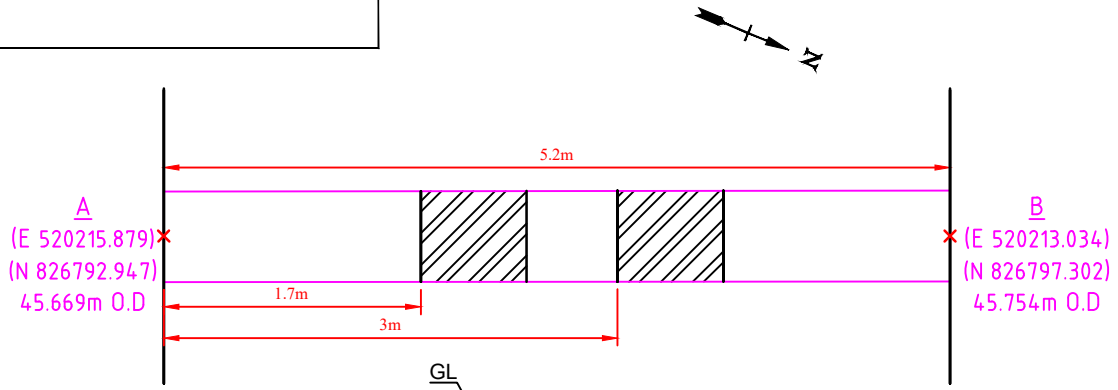
Trench Stable
Trench Dry

Ground Conditions:

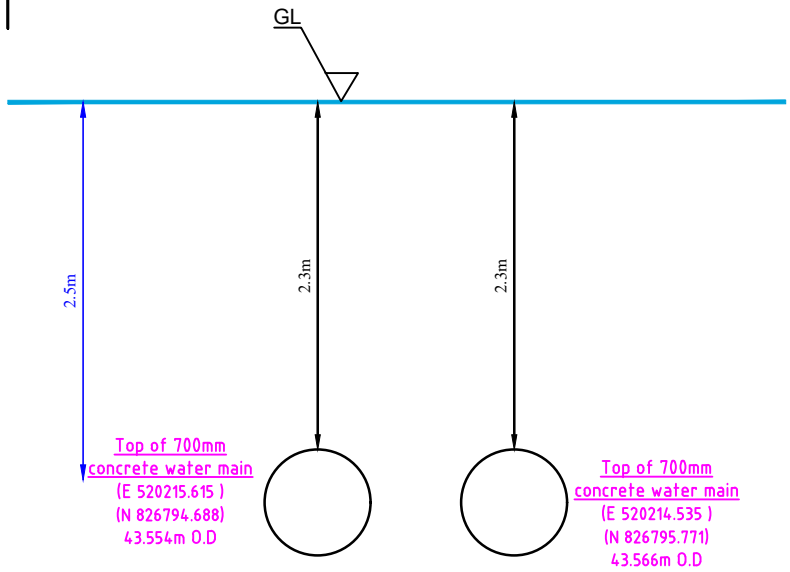
GL-0.20 : Soft dark brown gravelly SILT
0.20-1.90 : Stiff brown slightly gravelly SILT with a medium cobble content Cobbles are angular to sub-angular limestone

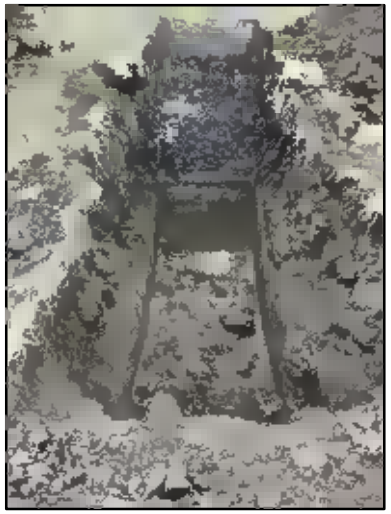
*ST-WM-03 (*Lough Talt*) 12/02/2025 Scale : 1:50*
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 5.20m
Width of Trench: 1.20m
Depth of Trench: 2.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

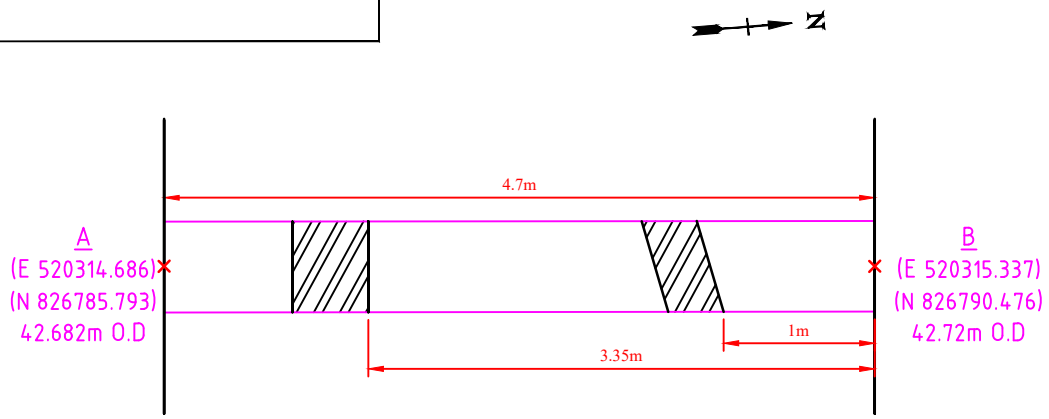
Trench Stable
Trench Dry

Ground Conditions:

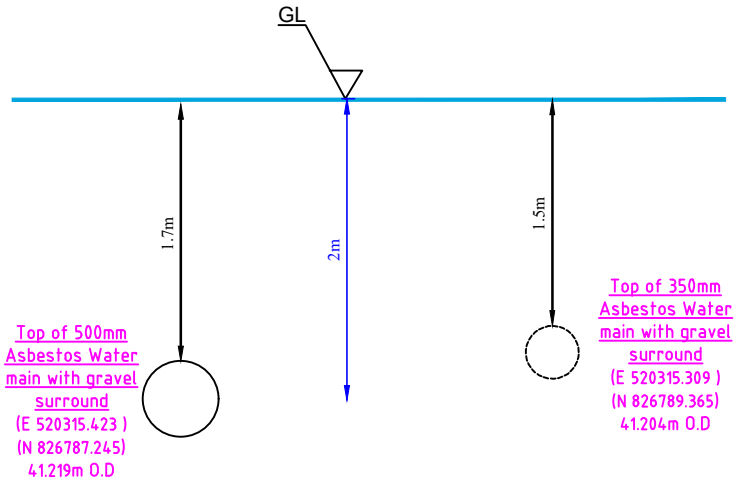
GL-0.20 : Soft dark brown gravelly SILT
0.20-2.50 : Stiff brown gravelly SILT

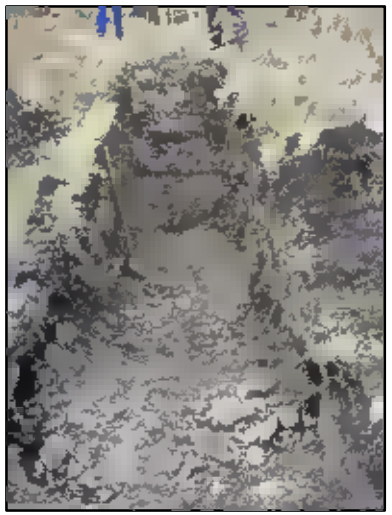
ST-WM-04 (Lough Talt) 12/05/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.20m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

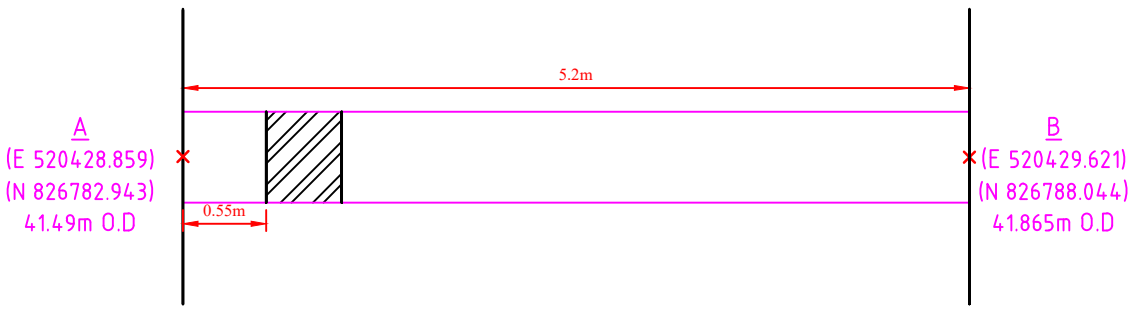
Trench Stable
Trench Dry

Ground Conditions:

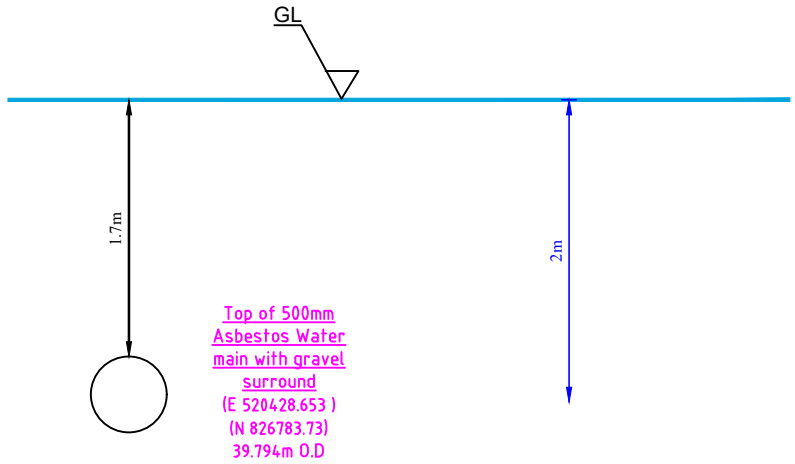
GL-2.00 : (Made Ground) Dark brown slightly gravelly SILT with a high cobble content
Cobbles are angular to sub-angular of limestone

ST-WM-05 (Lough Talt) 19/02/2025 Scale : 1:50
Irish Drilling Limited

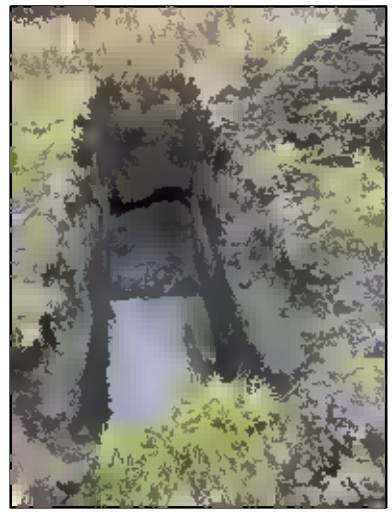
Plan



Section







Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.20m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

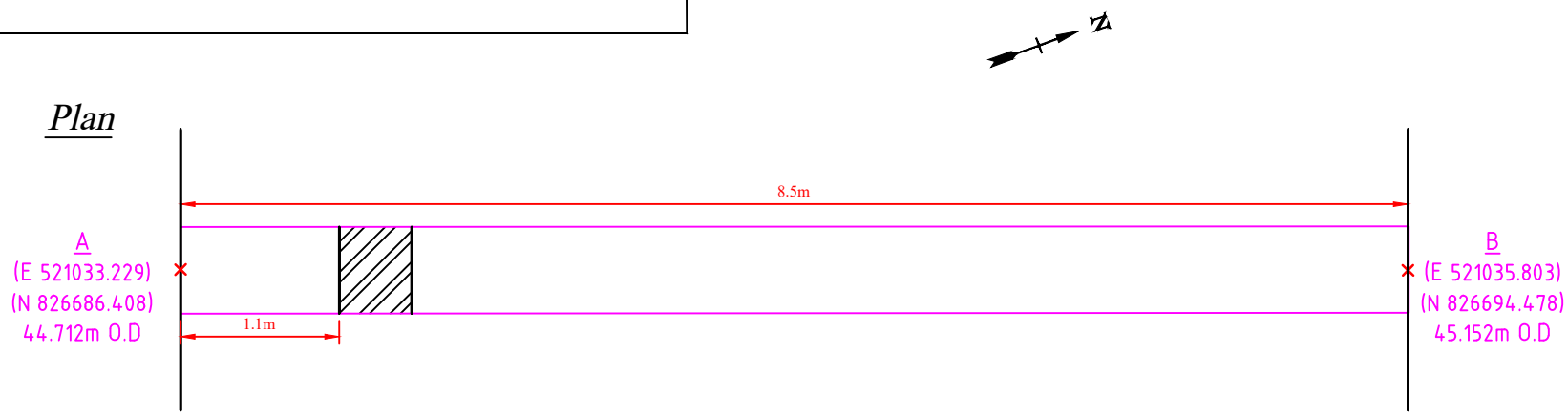
Trench Stable
High Inflow of water at 1.60m

Ground Conditions:

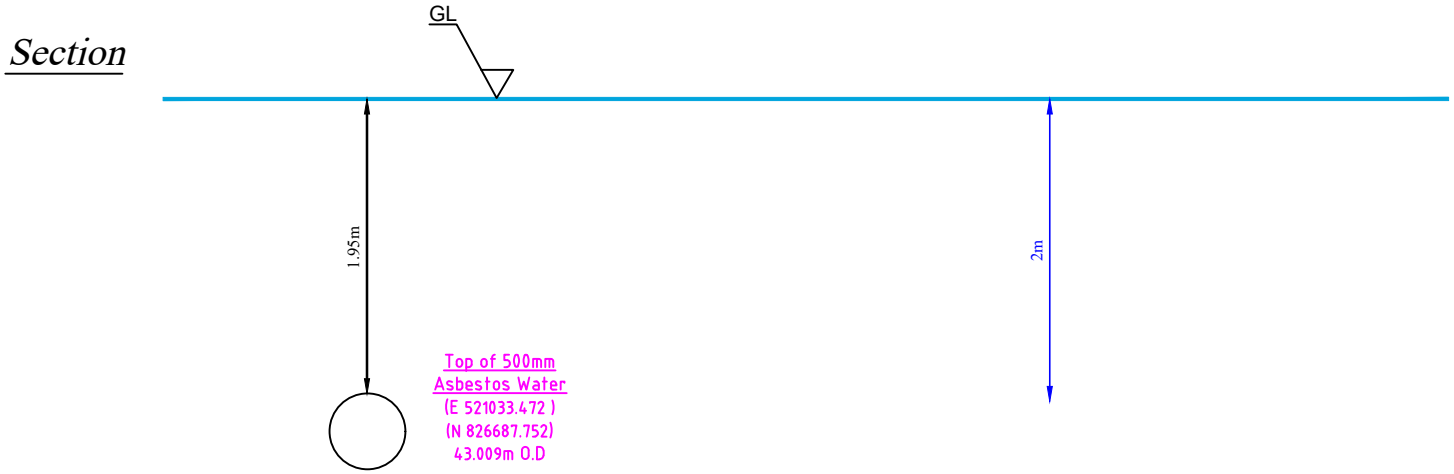
GL-0.20 : Soft dark brown gravelly SILT
0.20-2.00 : Stiff brown gravelly SILT with a low cobble content
Cobbles are angular to sub-angular limestone

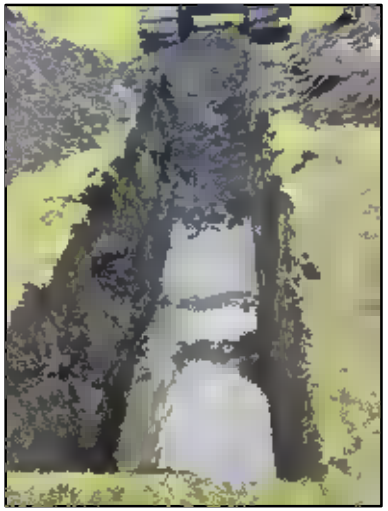
ST-WM06 (Lough Talt) 25/03/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 9.00m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

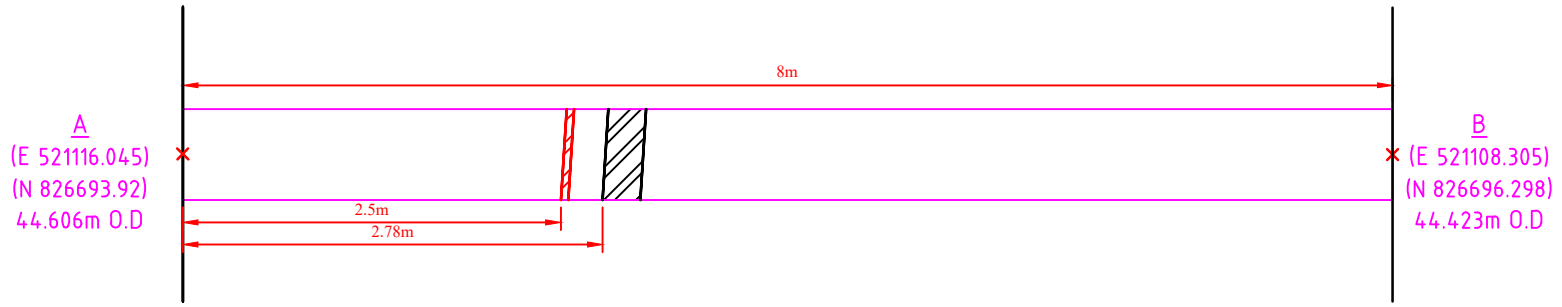
Trench Stable
High inflow of water at 1.80m

Ground Conditions:

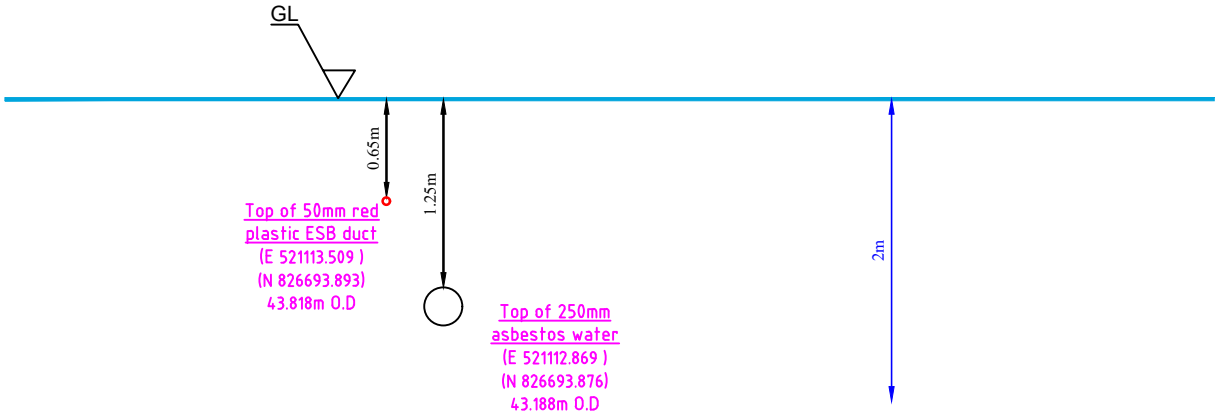
GL-0.20 : Soft dark brown gravelly SILT
0.20-1.40 : Stiff brown gravelly SILT with a high cobble content
1.40-2.00 : Soft grey gravelly SILT with a high cobble and a low boulder content
Cobbles and boulders are angular to sub-angular of limestone

ST-WM07 (Lough Talt) 24/03/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 8.00m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

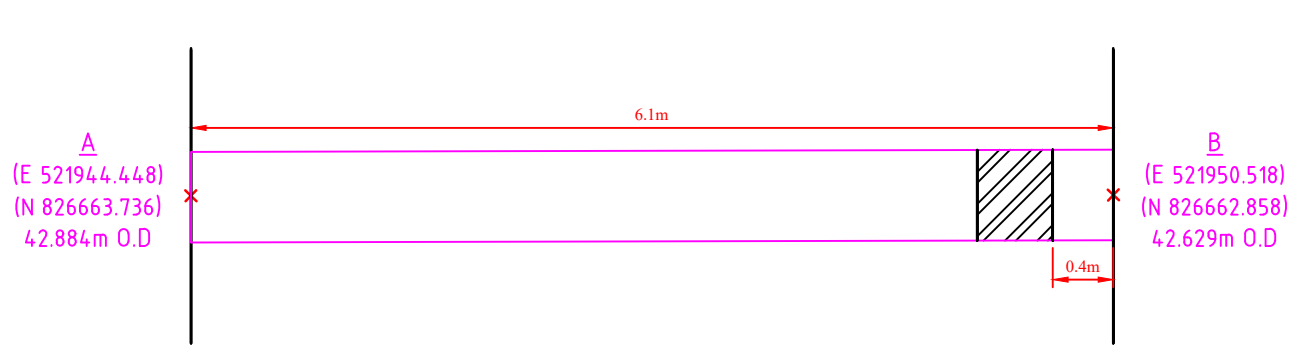
Trench Stable
Medium inflow of water at 1.20m

Ground Conditions:

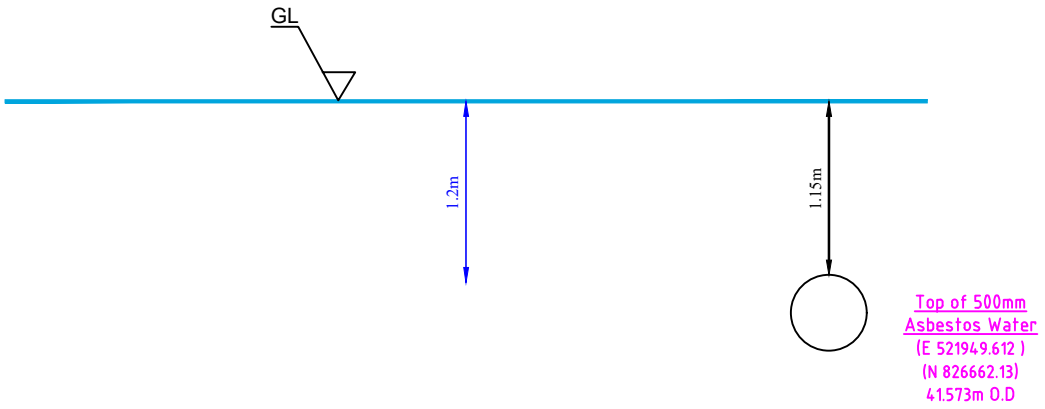
GL-0.20 : Soft dark brown gravelly SILT
0.20-0.50 : Soft dark brown PEAT/SILT
0.50-1.80 : Stiff grey gravelly SILT with a high quantity of cobbles
Cobbles are angular to sub-angular of limestone
1.80 : Probable ROCK

ST-WM08 (Lough Talt) 20/03/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 6.20m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

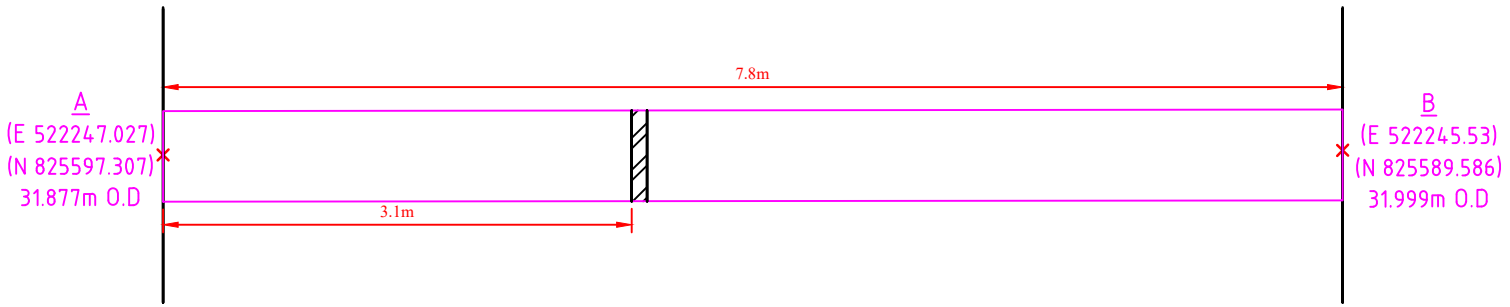
Trench Stable
Trench Dry

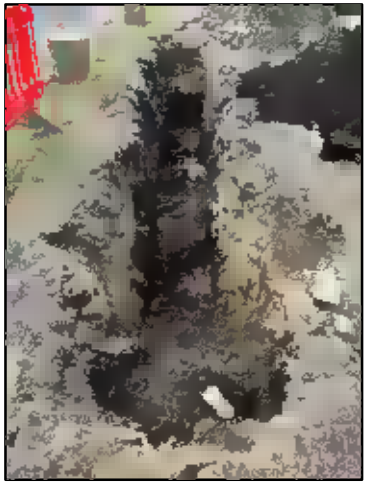
Ground Conditions:

GL-0.20 : Soft dark Brown SILT topsoil
0.20-1.20 : Stiff brown gravelly SILT with a high cobble content
Cobbles are angular to sub-angular of limestone
1.20 : Probable ROCK

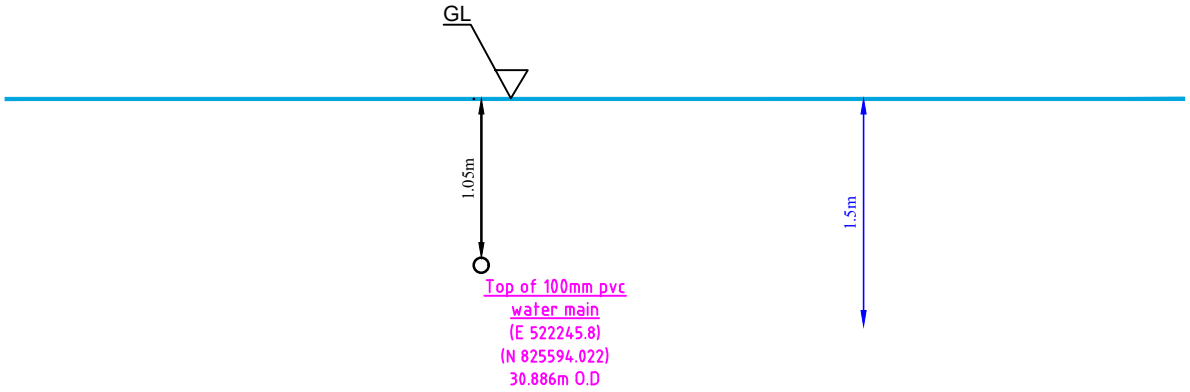
ST-WM09 (Lough Talt) 04/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.80m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

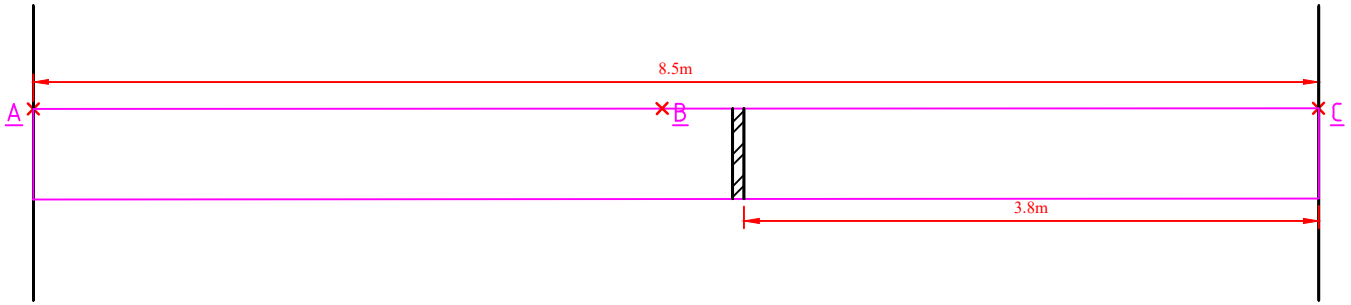
Trench Unstable
Low ingress of water from base of pit

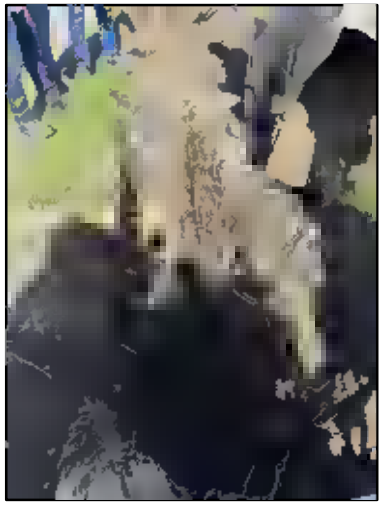
Ground Conditions:

GL-1.00 : (Made Ground)STONE, GRAVEL,SILT and SAND
1.00-1.50 : Soft dark brown PEAT

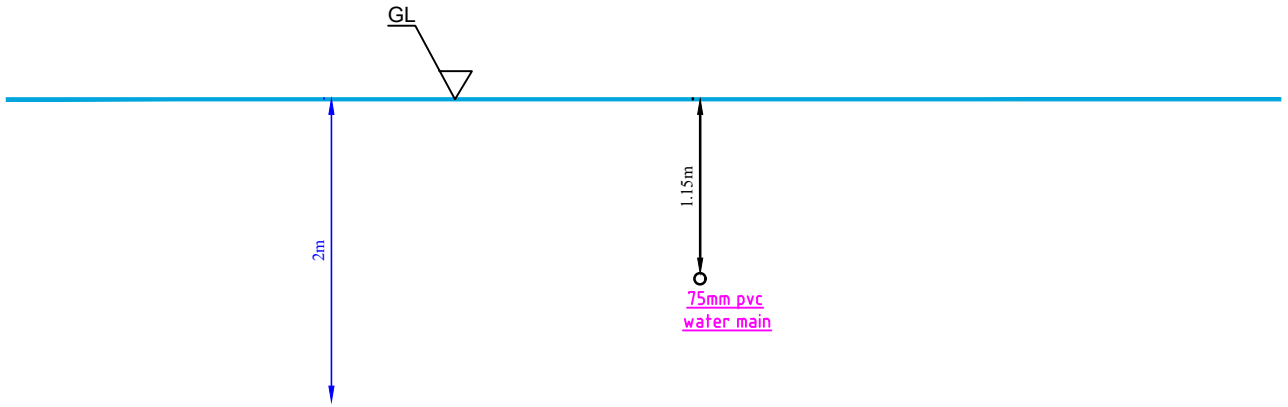
ST-WM10 (Lough Talt) 11/04/2025 Scale : 1:50
Irish Drilling Limited

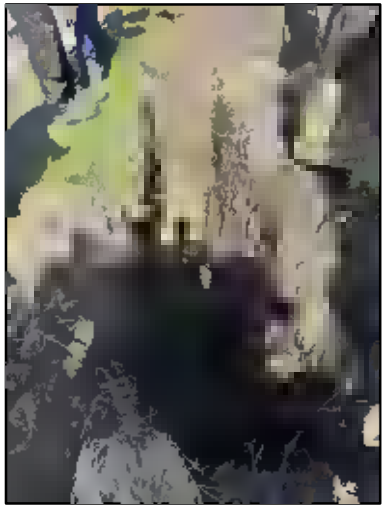
Plan





Section





Trench Dimensions:

Length of Trench: 8.50m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

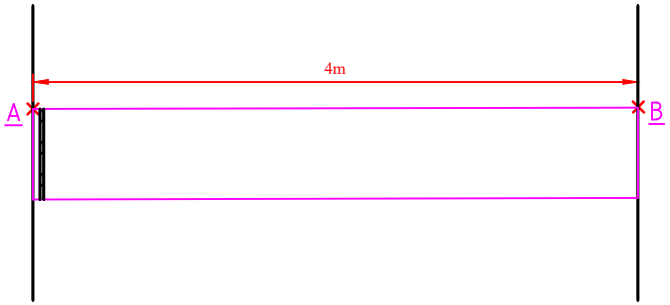
Trench Stable
Low seepage of water around service

Ground Conditions:

GL-0.40 : (Made Ground) SILT/GRAVEL
0.40-1.30 : Firm brown gravelly SILT
1.30-2.00 : Grey stiff gravelly SILT with a medium quantity of cobbles.

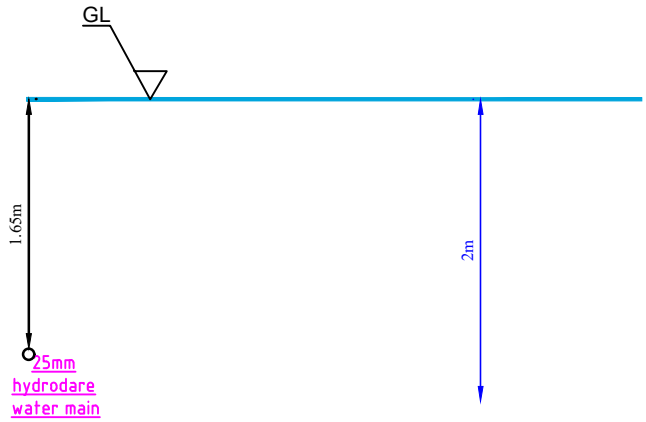
ST-WM10A (Lough Talt) 11/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

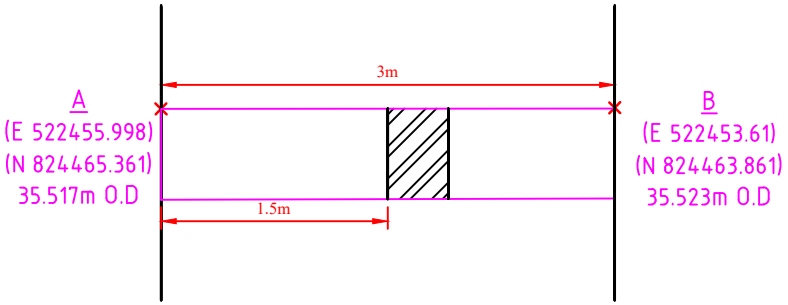
Trench Stable
Trench Dry

Ground Conditions:

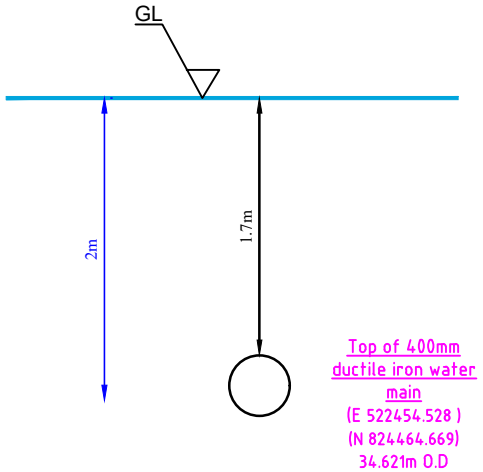
GL-0.40 : (Made Ground)STONE/SILT/GRAVEL
0.40-1.50 : Firm brown SILT
1.50-2.00 : Stiff grey gravelly SILT with a low quantity of cobbles

*ST-WM12 (*Lough Talt*) 26/05/2025 Scale : 1:50*
Irish Drilling Limited

Plan



Section



Trench Dimensions:

Length of Trench: 3.00m
Width of Trench: 0.50m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.10m-1.20m

Notes:

Backfill : Arisings

Remarks:

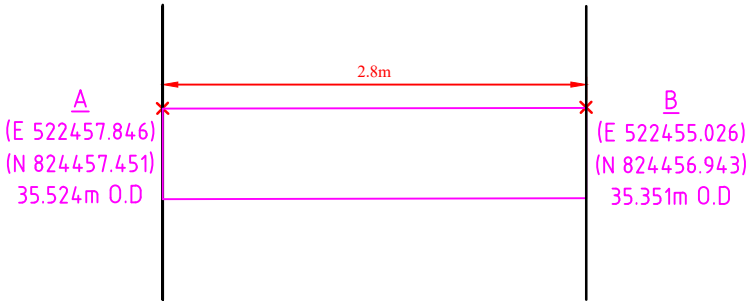
Trench Stable
Trench Dry

Ground Conditions:

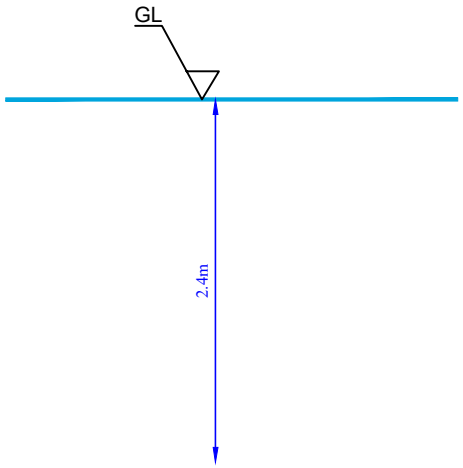
GL-0.50 : Grass over a silty COBBLES/GRAVEL
0.50-1.30 : 804
1.30-2.00 : Fine CHIPS

ST-WM12A (Lough Talt) 26/05/2025 Scale : 1:50
Irish Drilling Limited

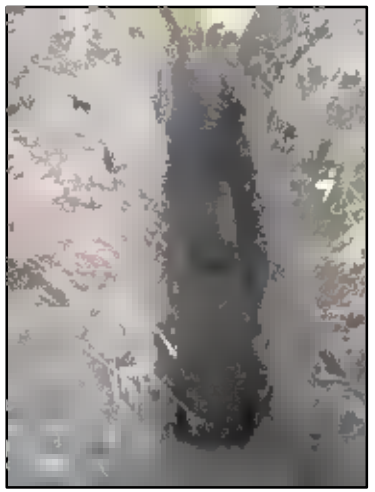
Plan



Section







Trench Dimensions:
Length of Trench: 2.80m
Width of Trench: 0.50m
Depth of Trench: 2.40m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.70m-1.80m

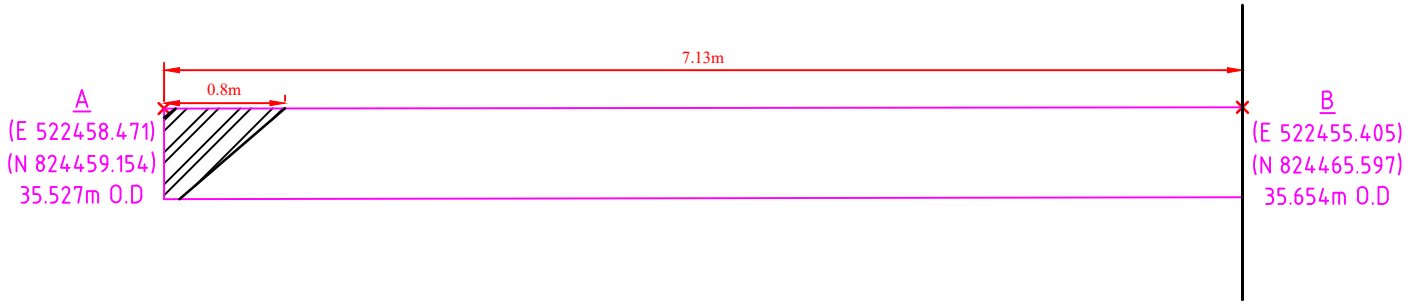
Notes:
Backfill : Arisings

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-1.50 : (Made Ground) Grass over a slightly clayey sandy silty GRAVEL
1.50-2.40 : Dark brown very gravelly SILT

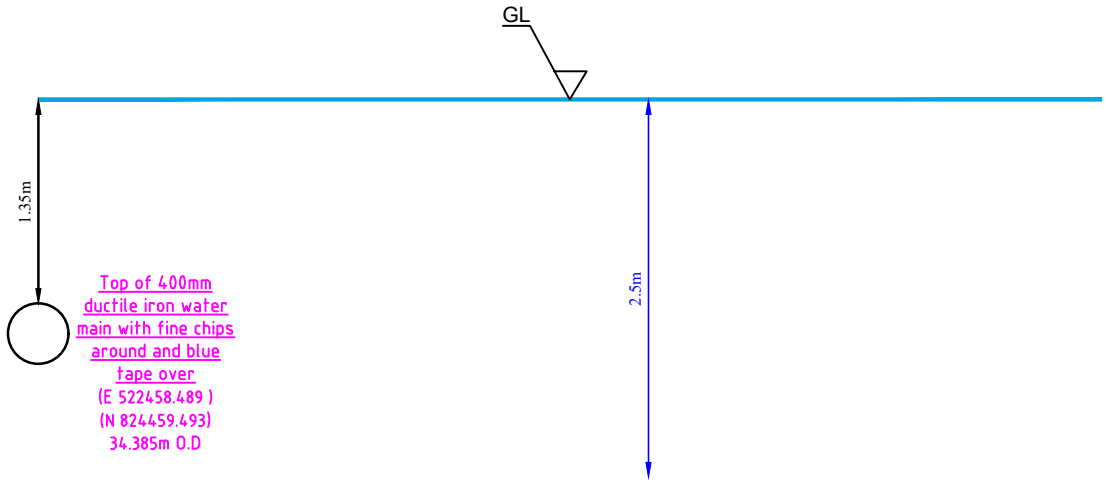
ST-WM12B (Lough Talt) 19/11/2025 Scale : 1:50
Irish Drilling Limited

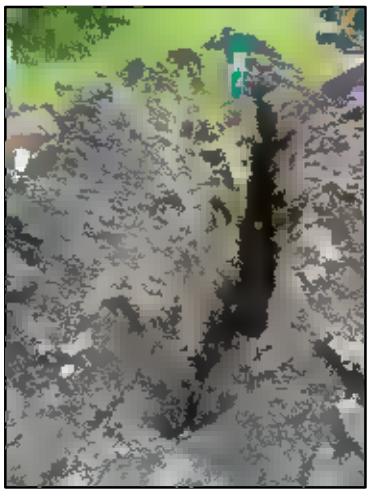
Plan





Section





Trench Dimensions:

Length of Trench: 7.30m
Width of Trench: 0.50m
Depth of Trench: 2.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 2.10m-2.20m

Notes:

Backfill : 804

Remarks:

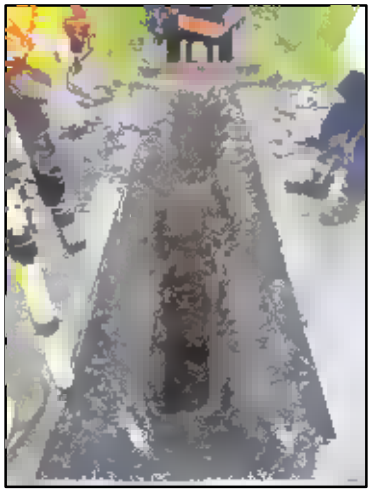
Trench Stable
Trench Dry

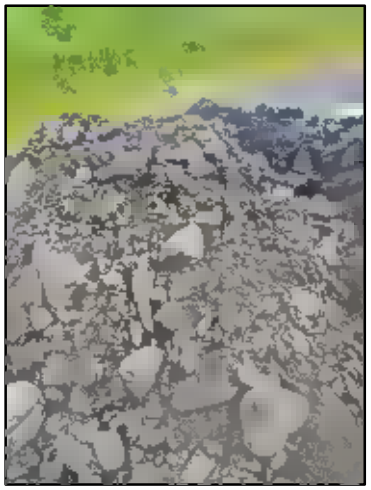
Ground Conditions:

GL-1.20 : (Made Ground) Grass over a grey brown 804
1.20-2.50 : Brown gravelly SILT

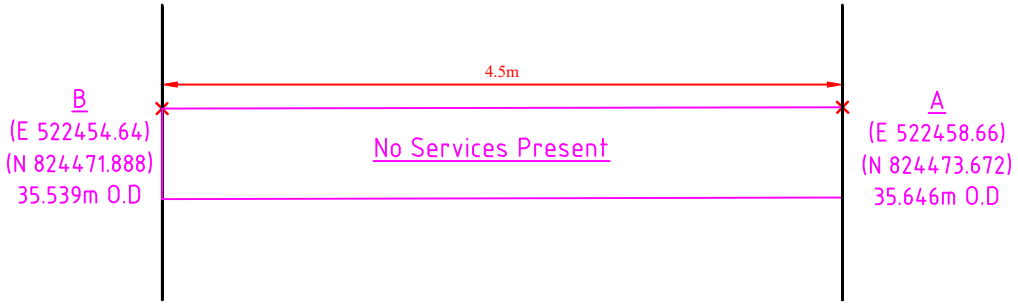
ST-WM12C (Lough Talt) 26/05/2025 Scale : 1:50
Irish Drilling Limited

N

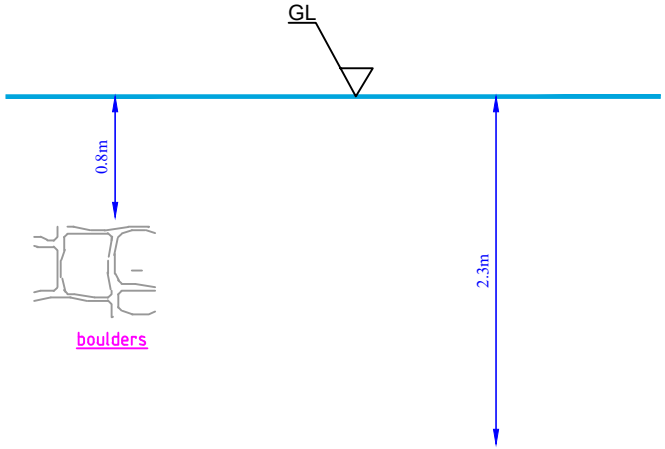




Plan



Section



Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 2.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.80m-1.90m

Notes:

Backfill : leanmix and bitumen

Remarks:

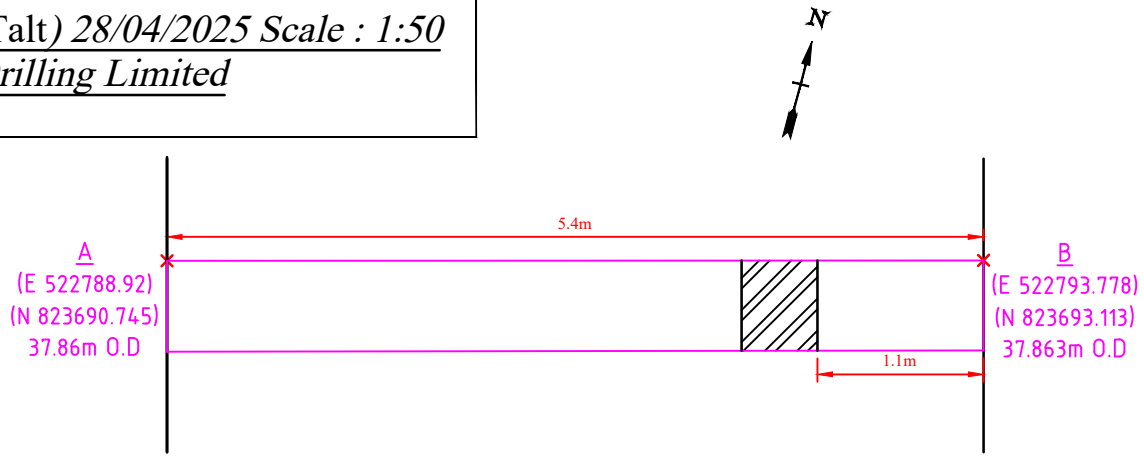
Trench Stable
Trench Dry

Ground Conditions:

GL-0.07 : Bitumen
0.07-0.50 : 804
0.50-1.50 : Brown silty COBBLES/BOULDERS
1.50-2.30 : Brown creamy COBBLES/GRAVEL

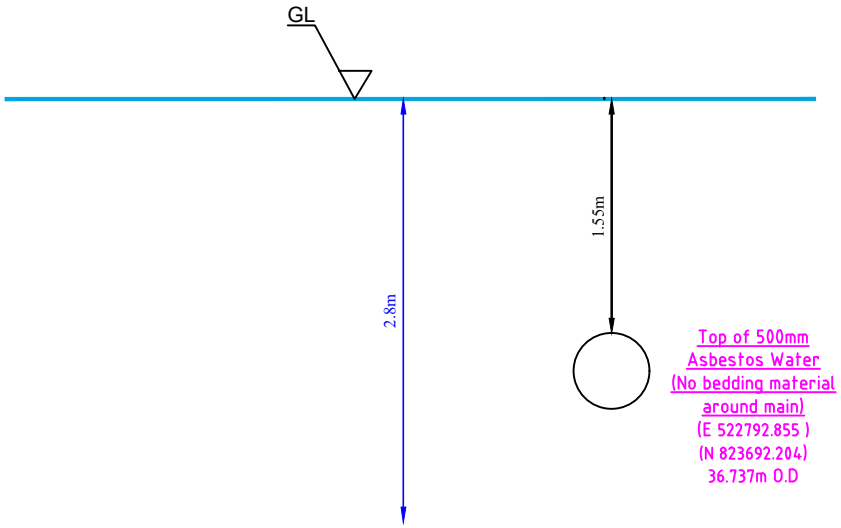
ST-WM14 (Lough Talt) 28/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.40m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

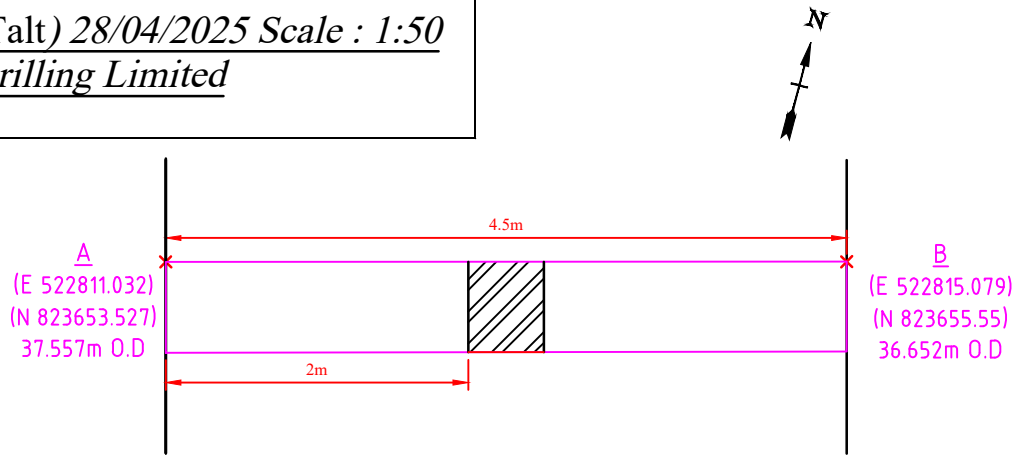
Trench Stable
Trench Dry

Ground Conditions:

GL-0.70 : (Made Ground) Topsoil rootlets
0.70-1.80 : (Made Ground) Brown firm gravelly SILT with cobbles and boulders

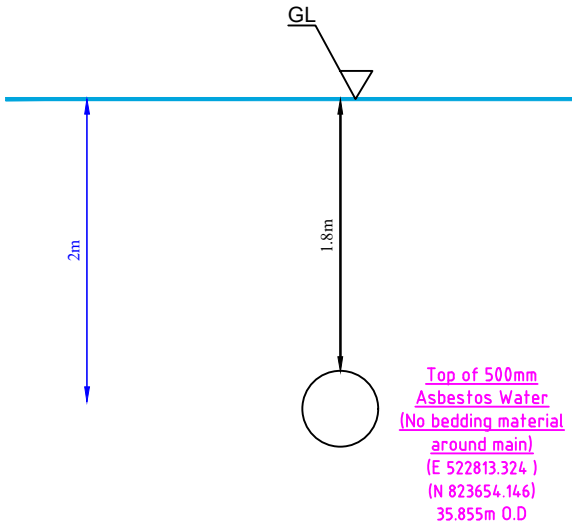
*ST-WM15 (*Lough Talt*) 28/04/2025 Scale : 1:50*
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.30m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

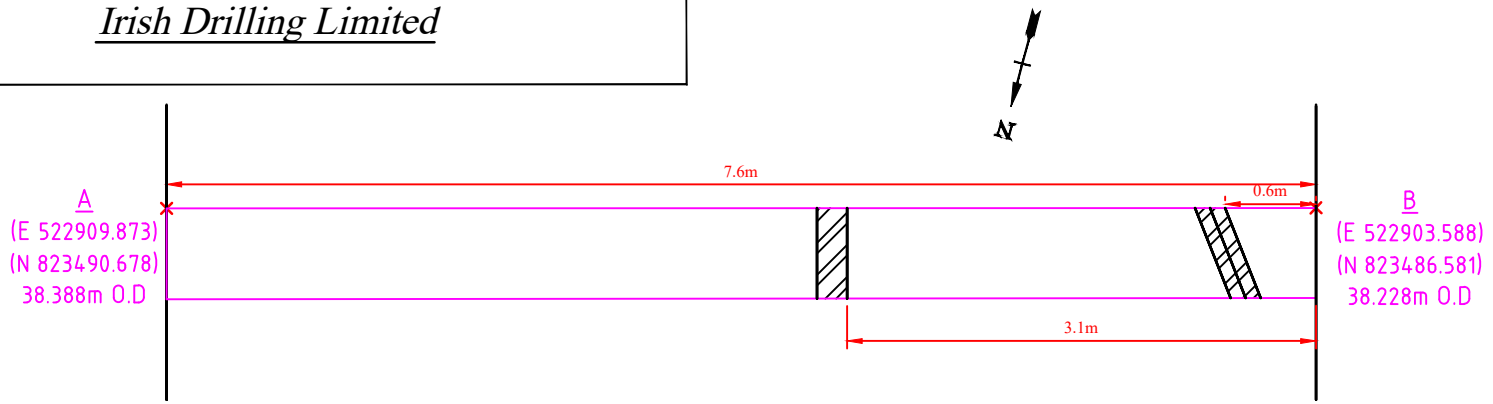
Trench Stable
Trench Dry

Ground Conditions:

GL-2.00 : (Made Ground) Firm brown gravelly SILT with rootlets and cobbles and boulders

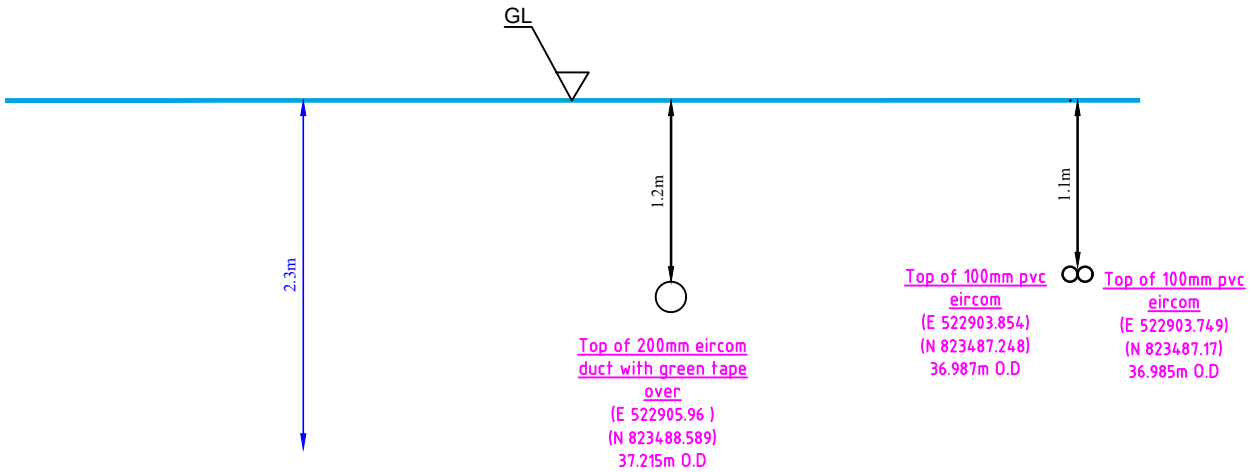
ST-WM16 (Lough Talt) 27/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.60m
Width of Trench: 1.00m
Depth of Trench: 2.30m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.50m-1.60m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

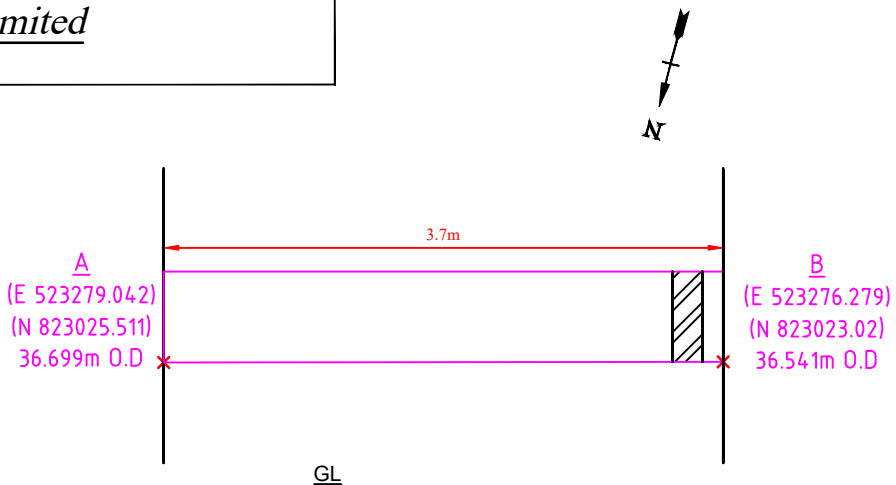
Trench Stable
Trench Dry

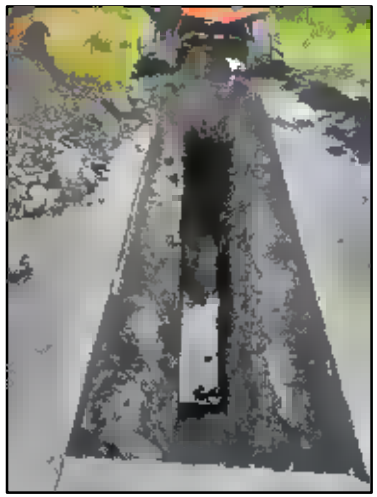
Ground Conditions:

GL-0.10 : Bitumen
0.10-0.40 : Tarmac
0.40 -1.20 : 804
1.20-2.30 : PEAT

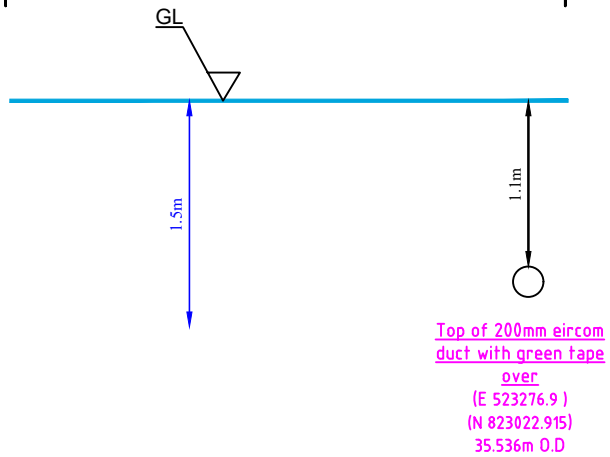
ST-WM20 (Lough Talt) 27/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.60m
Width of Trench: 0.90m
Depth of Trench: 1.50m

Logged by: DOR

Notes:

Backfill : Leanmix and Bitumen

Remarks:

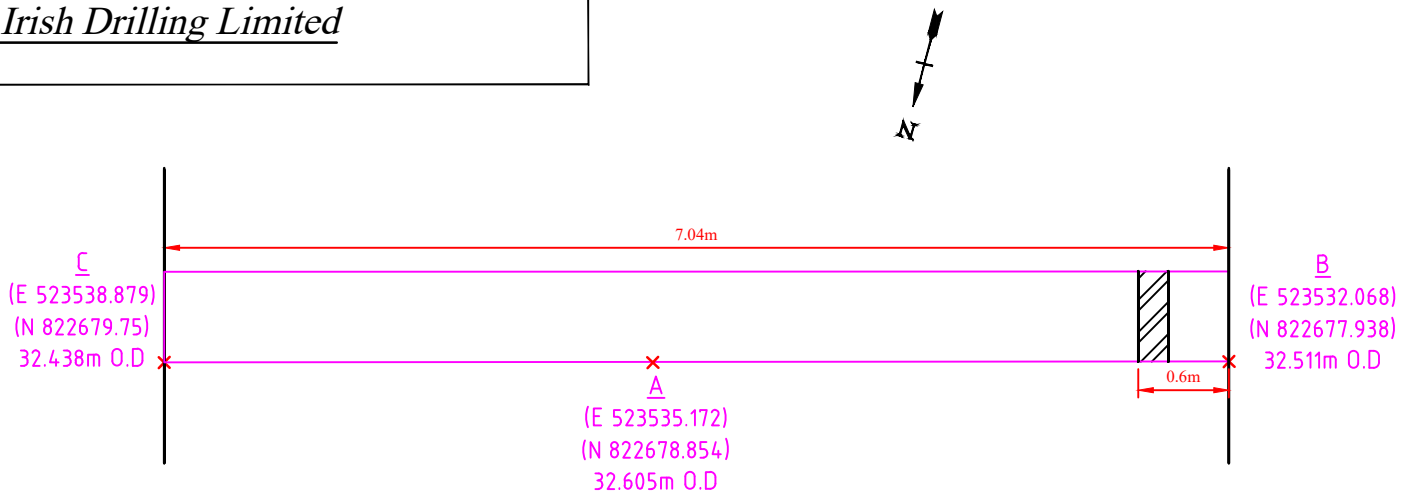
Trench Stable
Large Water strike along telecom duct trench at 1.50m rising up to 1.10m

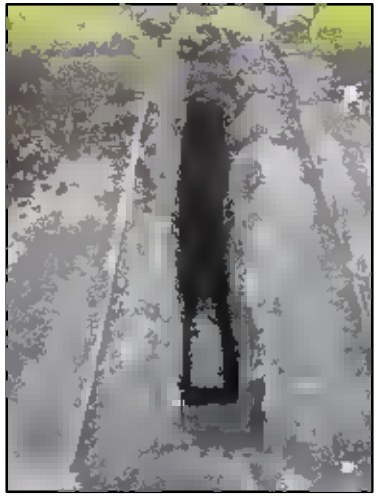
Ground Conditions:

GL-0.10 : Bitumen
0.10-0.20 : Tarmac
0.20 -0.90 : 804
0.90-1.50 : PEAT (Strong smell of hydrocarbon from trench)

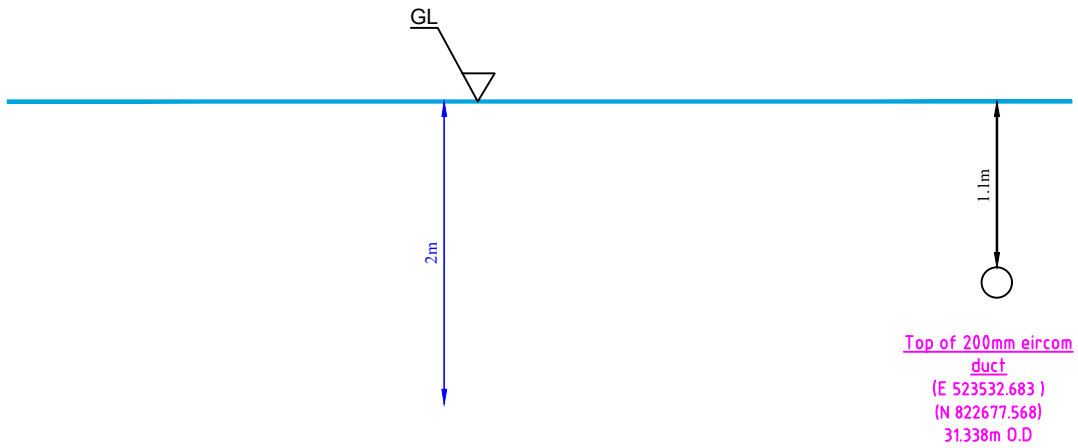
ST-WM20A (Lough Talt) 27/05/2025 Scale : 1:50
Irish Drilling Limited

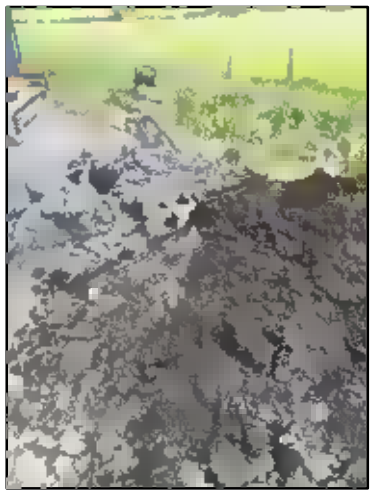
Plan





Section





Trench Dimensions:

Length of Trench: 7.04m
Width of Trench: 1.05m
Depth of Trench: 2.00m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.40m-1.50m
Bulk Bag Sample @ 1.90m-2.00m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

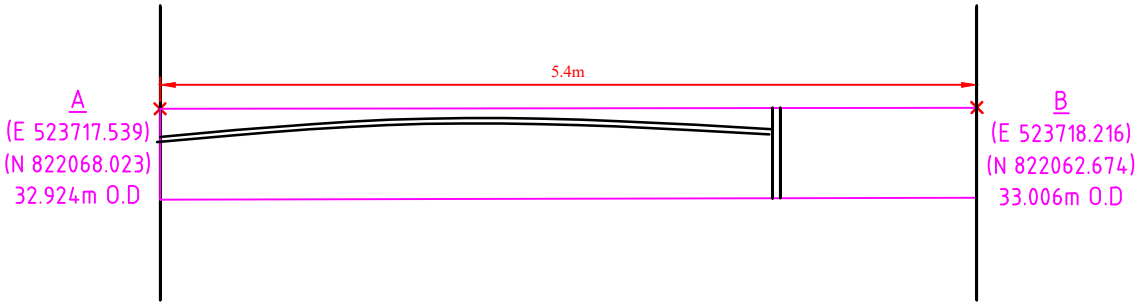
Trench Stable
Inflow of water from base of pit

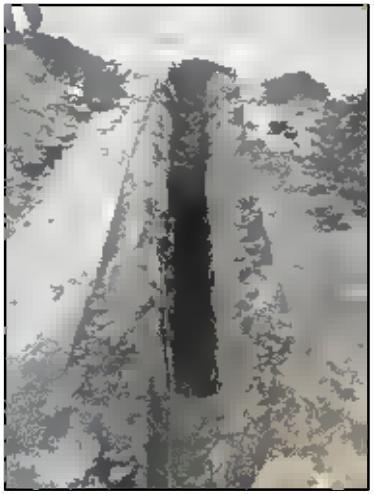
Ground Conditions:

GL-0.11 : Bitumen
0.11-0.25 : Tarmac
0.25 -0.95 : 804
0.95-2.00 : PEAT (Strong smell of hydrocarbon from peat)

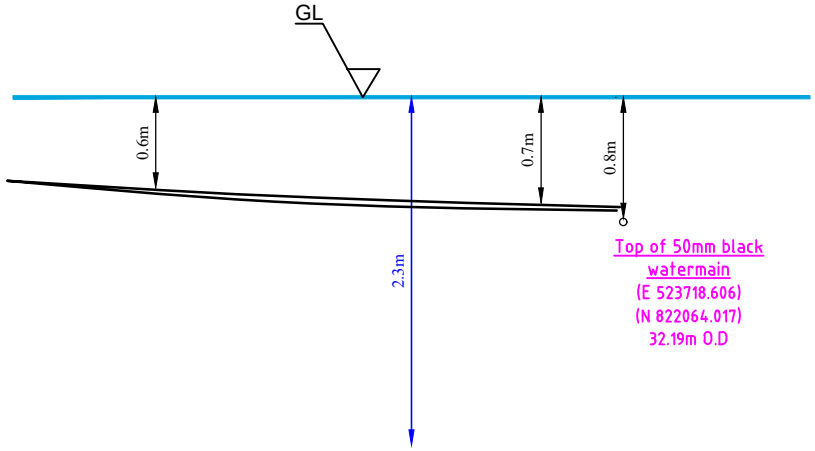
ST-WM22 (Lough Talt) 28/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.00m
Depth of Trench: 2.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.70m-1.80m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

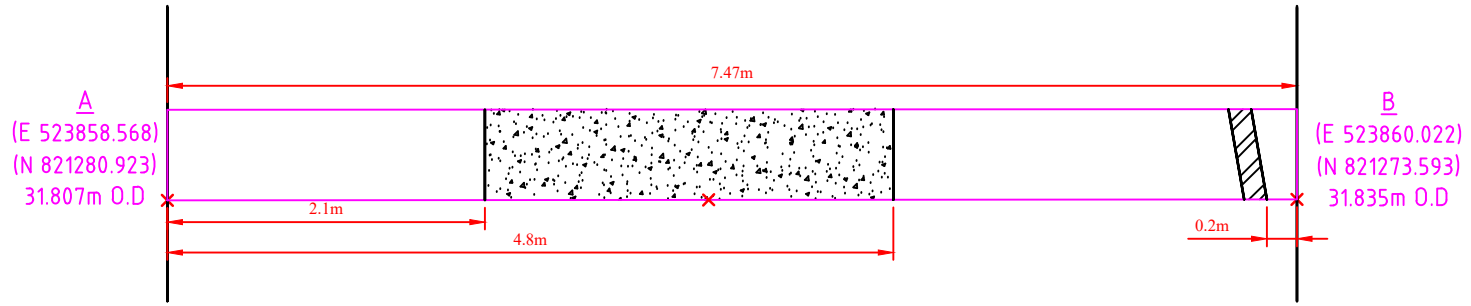
Trench Stable
Trench Dry

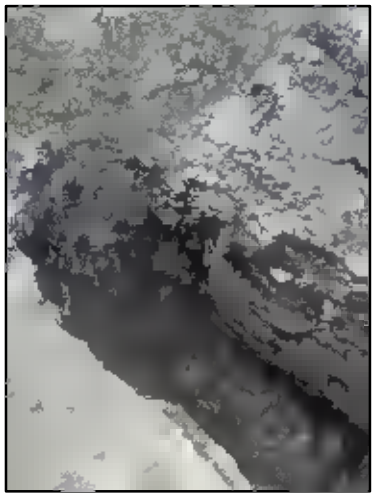
Ground Conditions:

GL-0.07 : Bitumen
0.07-0.23 : Tarmac
0.23-0.60 : 804
0.60-1.40 : Brown gravelly sandy SILT
1.40-2.30 : Brown gravelly sandy SILT

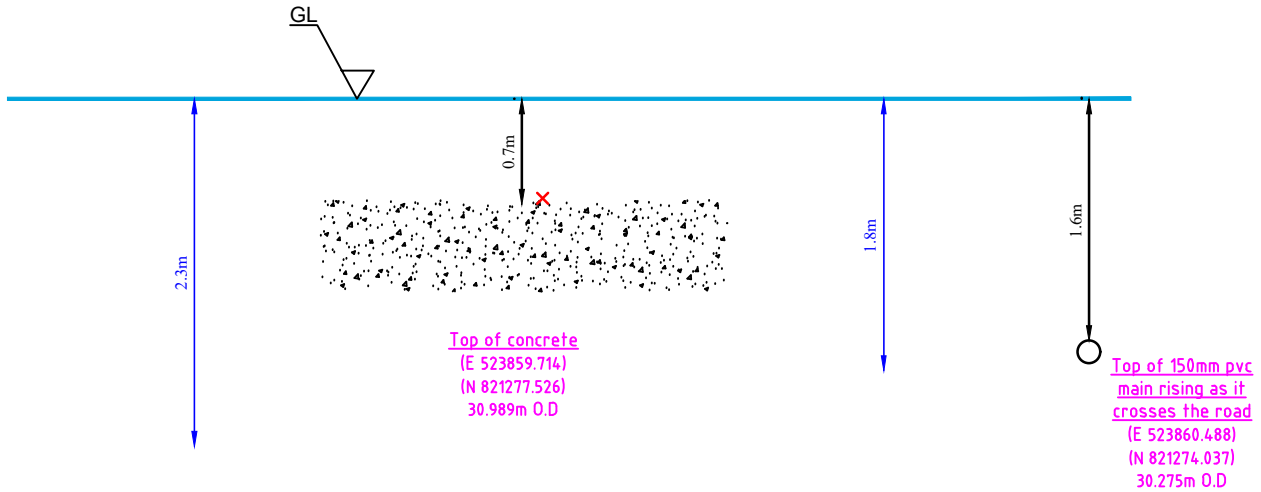
ST-WM23 (Lough Talt) 3/06/2025 Scale : 1:50
Irish Drilling Limited

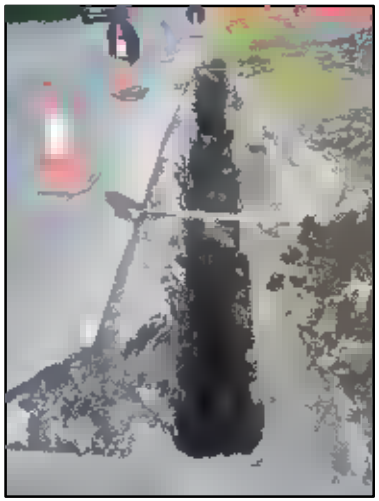
Plan





Section





Trench Dimensions:
Length of Trench: 7.40m
Width of Trench: 1.10m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.80m-1.90m

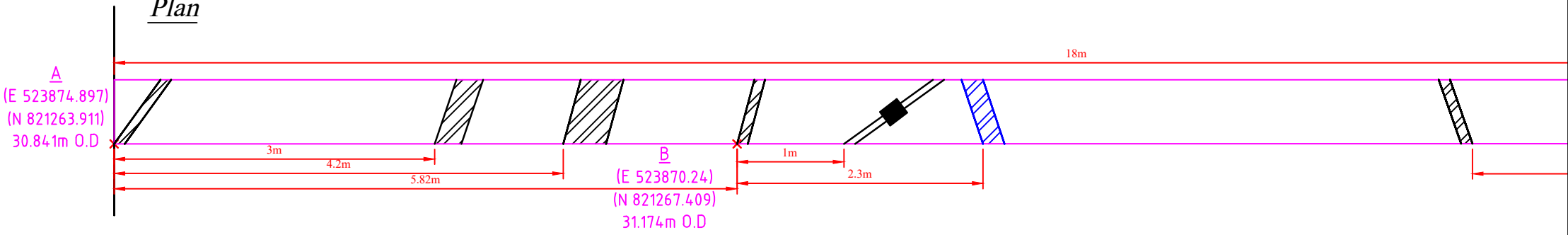
Notes:
Backfill : Leanmix and Bitumen

Remarks:
Trench Stable
Trench Dry

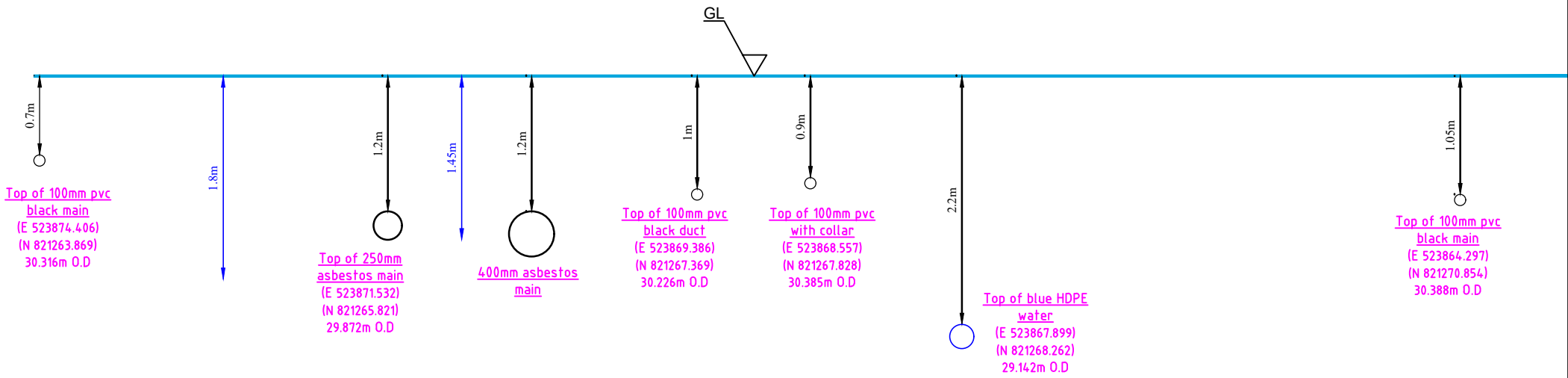
Ground Conditions:
GL-0.06 : (Made Ground) Bitumen
0.06-0.30 : Tarmac
0.30-1.20 : Dark brown silty sandy GRAVEL
1.20-2.00 : Dark brown PEAT/SILT

ST-WM24(A TO B) (Lough Talt) 29/05/2025
Scale : 1:50
Irish Drilling Limited

Plan



Section



Trench Dimensions:

Length of Trench: 18m
Width of Trench: 1.10m
Depth of Trench: 2.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00m-1.10m
Bulk Bag Sample @ 1.60m-1.70m

Notes:

Backfill : Leanmix and Bitumen

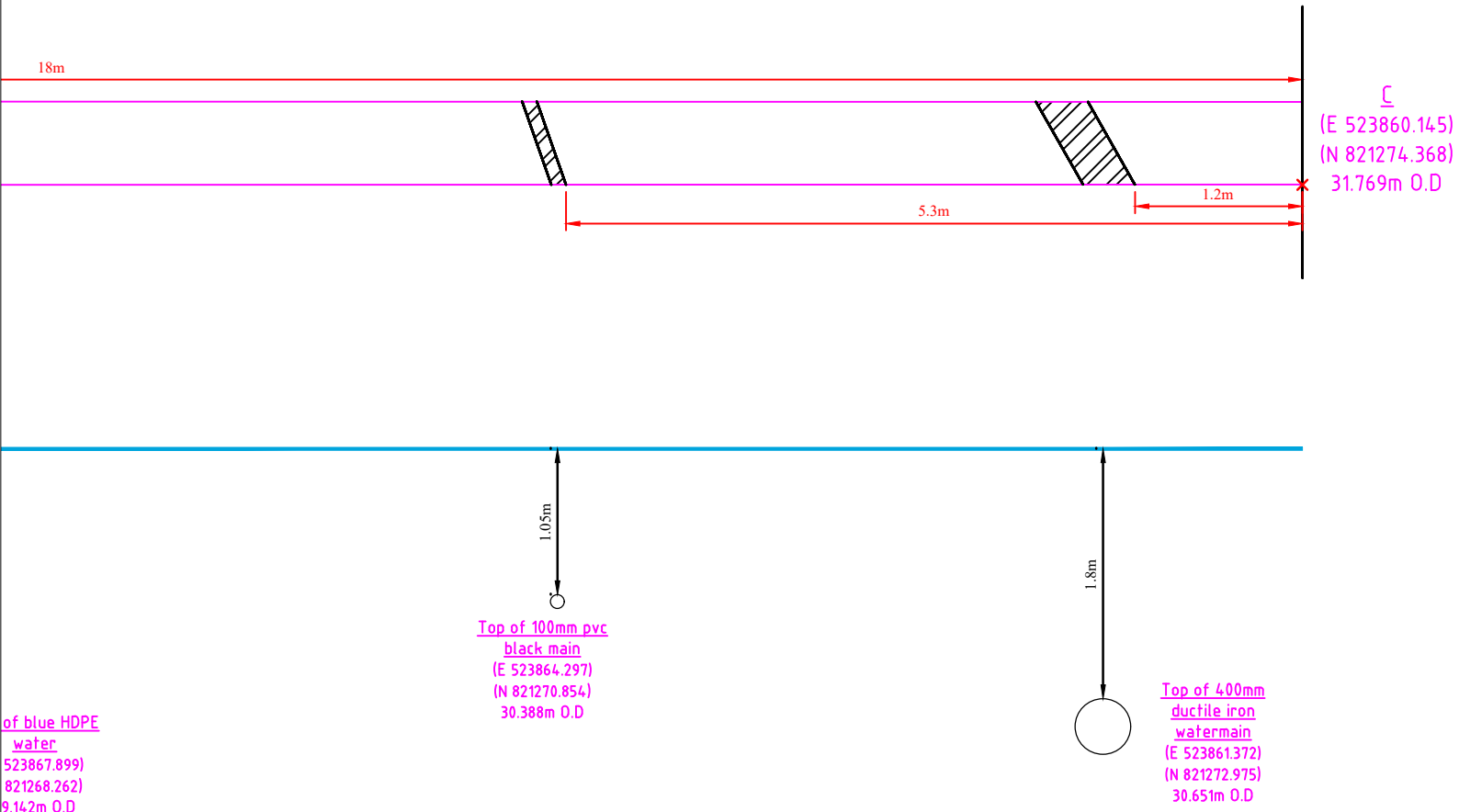
Remarks:

Trench Stable
Trench Dry

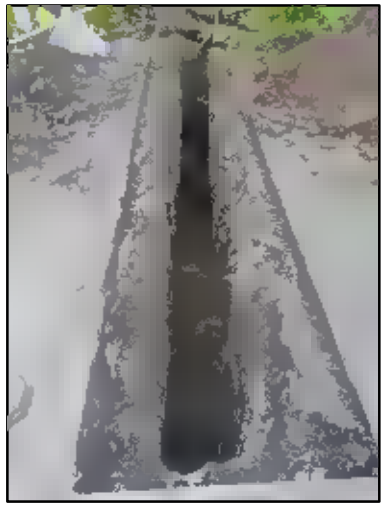
Ground Conditions:

GL-0.09 : (Made Ground) Bitumen
0.09-0.25 : Tarmac
0.25-0.40 : 804
0.40-1.20 : Orange brown gravelly SAND
1.20-2.20 : Dark brown PEAT/SILT

ST-WM24(B TO C) (Lough Talt) 29/05/2025
Scale : 1:50
Irish Drilling Limited





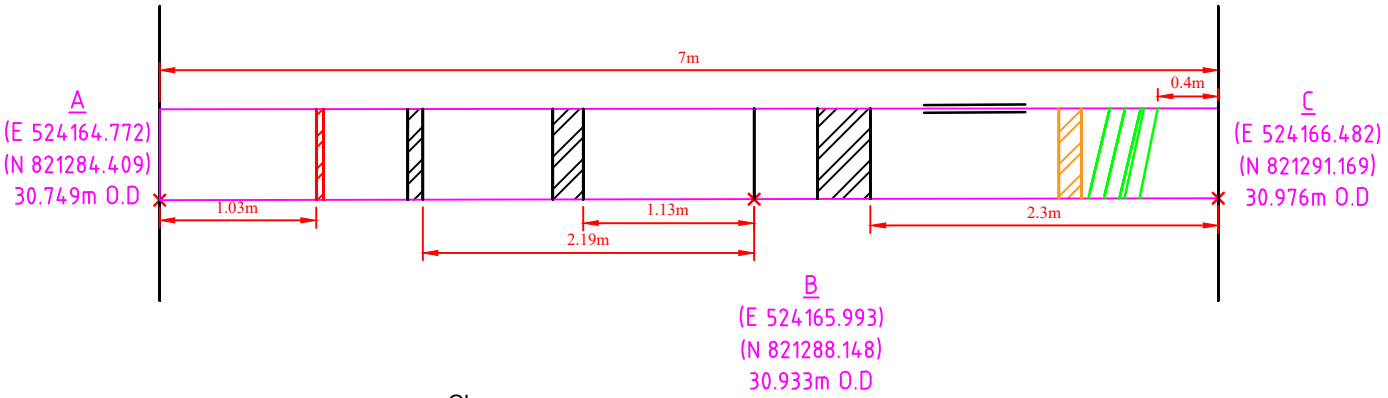


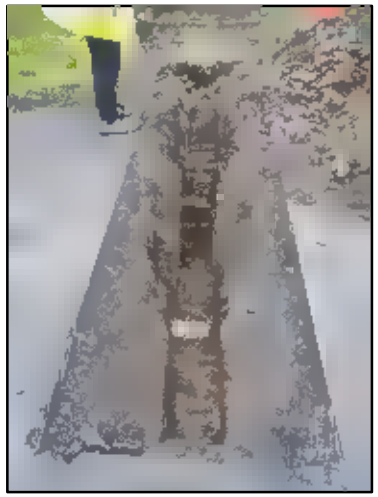
Ground Conditions:

GL-0.09 : (Made Ground) Bitumen
0.09-0.25 : Tarmac
0.25-0.40 : 804
0.40-1.20 : Orange brown gravelly SAND
1.20-2.20 : Dark brown PEAT/SILT

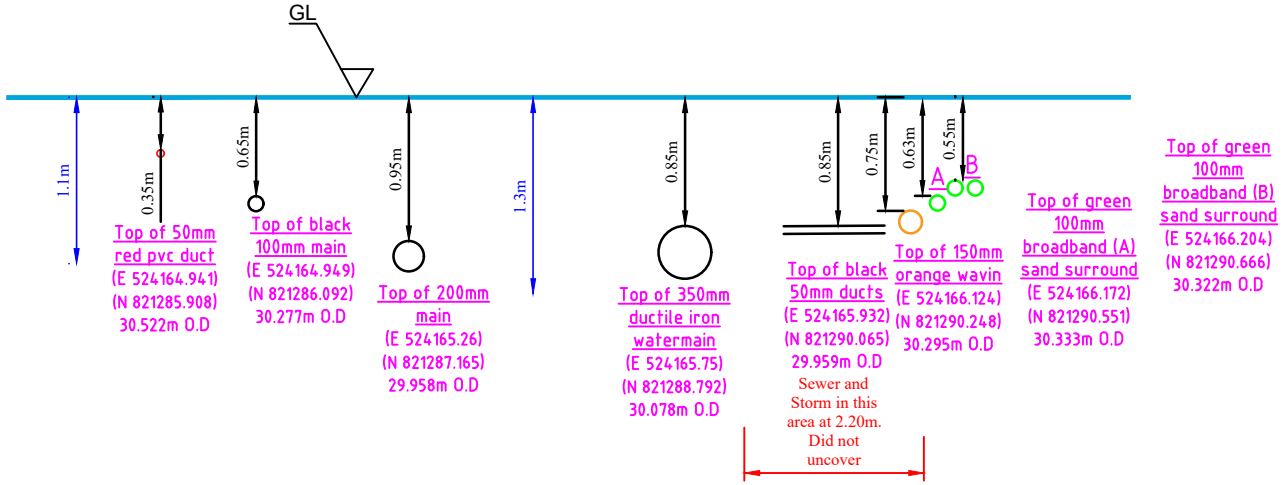
ST-WM27 (Lough Talt) 28/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.00m
Width of Trench: 1.10m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.20m-1.30m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

Trench Stable
Trench Dry

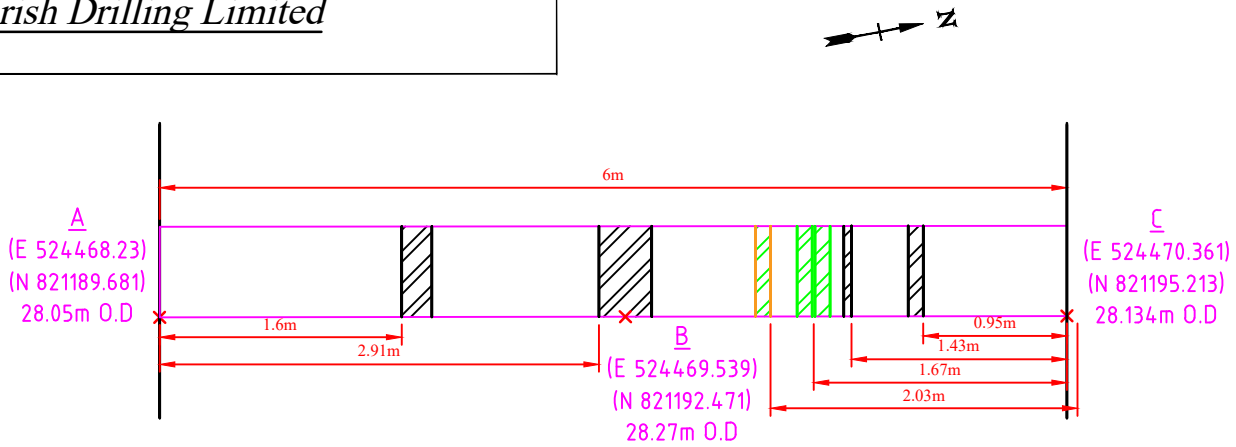
Ground Conditions:

GL-0.07 : (Made Ground) Bitumen
0.07-0.14 : Tarmac
0.14-0.90 : Sandy Gravel
0.90-1.30 : Brown sandy gravelly SILT

ST-WM28 (Lough Talt) 28/05/2025 Scale : 1:50
Irish Drilling Limited

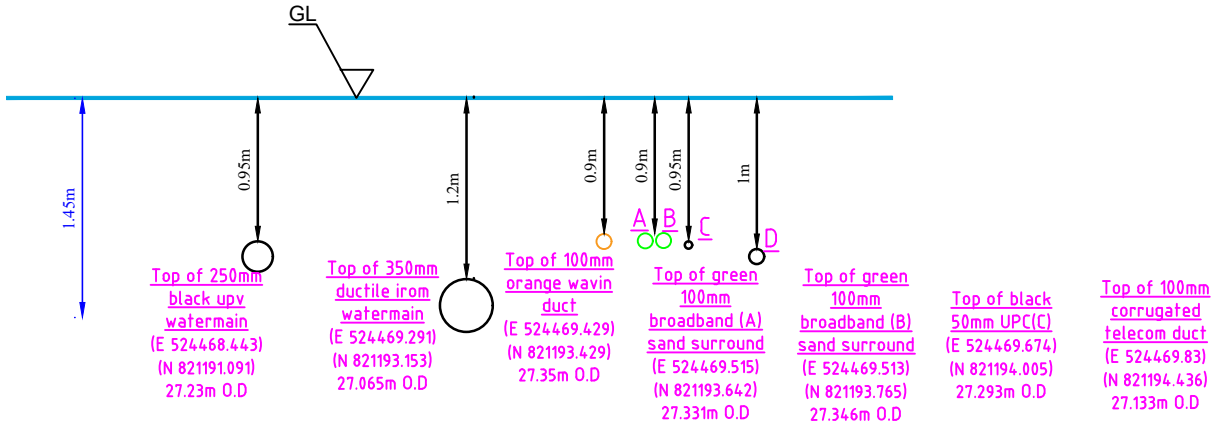


Plan





Section



Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.10m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-0.60m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

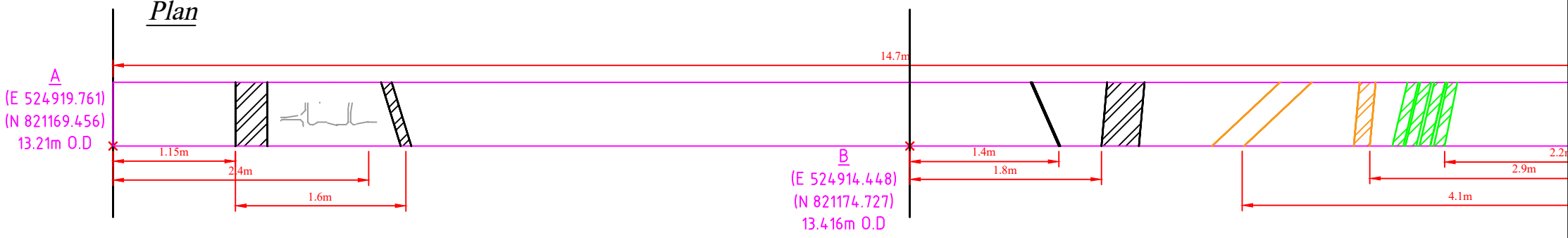
Trench Stable
Trench Dry

Ground Conditions:

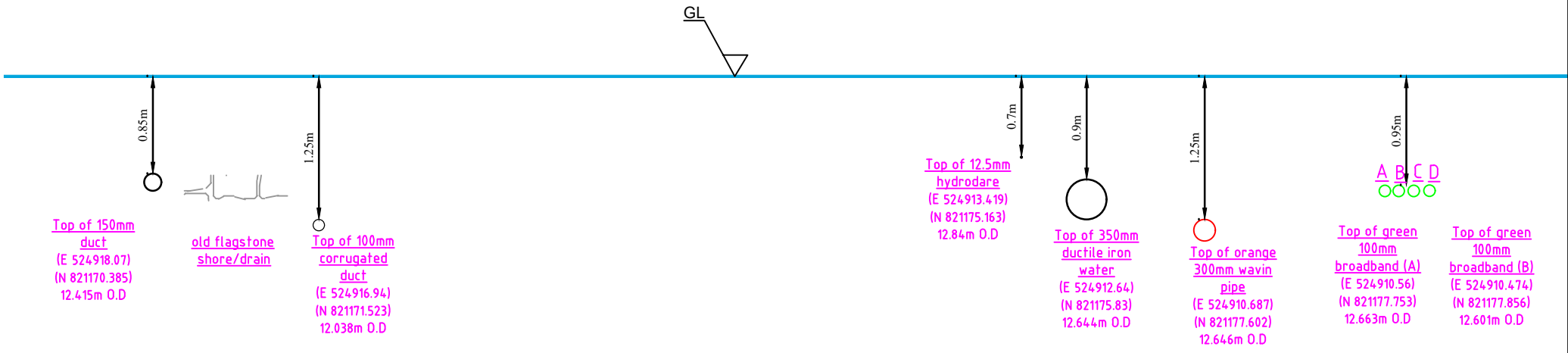
GL-0.05 : (Made Ground) Bitumen
0.05-0.20 : Tarmac
0.20-0.80 : Sandy Gravel
0.80-1.60 : Brown sandy SILT

ST-WM31 (A TO B) (Lough Talt) 30/05/2025
Scale : 1:50
Irish Drilling Limited

Plan



Section



Trench Dimensions:

Length of Trench: 14.7m
Width of Trench: 1.10m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.70m-0.80m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

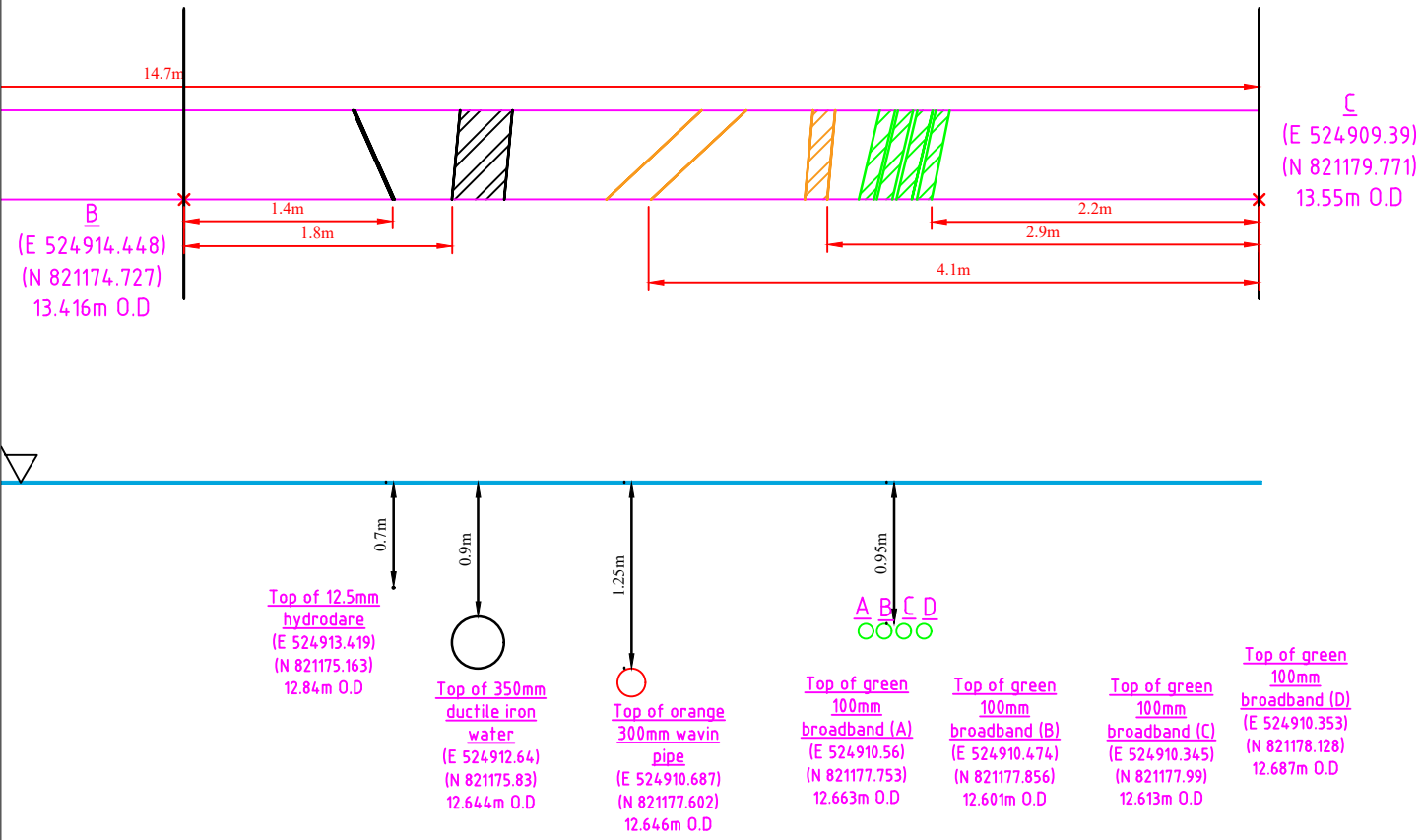
Trench Stable
Trench Dry

Ground Conditions:

GL-0.07 : (Made Ground) Bitumen
0.07-1.60 : Brown sandy gravelly CLAY

025

ST-WM31(B TO C) (Lough Talt) 30/05/2025
Scale : 1:50
Irish Drilling Limited







anmix and

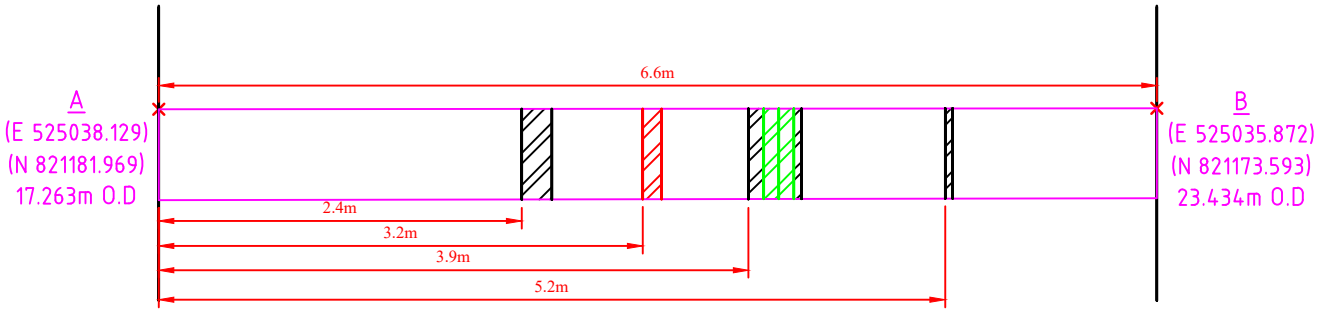
e

Ground Conditions:

GL-0.07 : (Made Ground) Bitumen
0.07-1.60 : Brown sandy gravelly CLAY

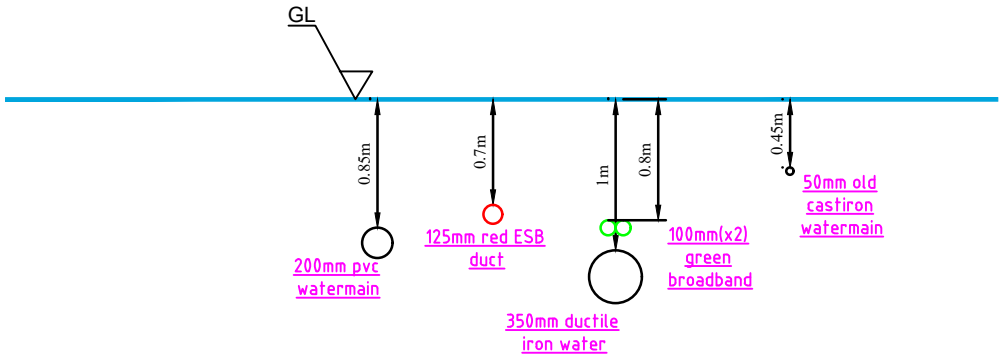
ST-WM33 (Lough Talt) 15/05/2025 Scale : 1:50
Irish Drilling Limited

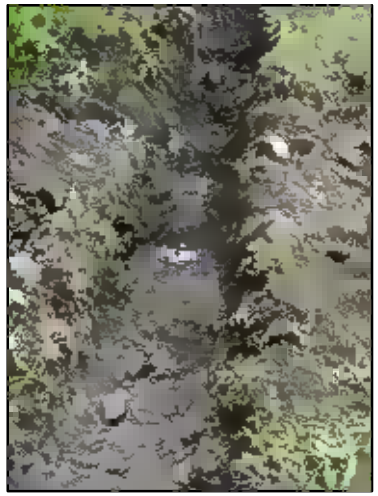
Plan





Section





Trench Dimensions:

Length of Trench: 6.60m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.60m-1.80m

Notes:

Backfill : Arisings

Remarks:

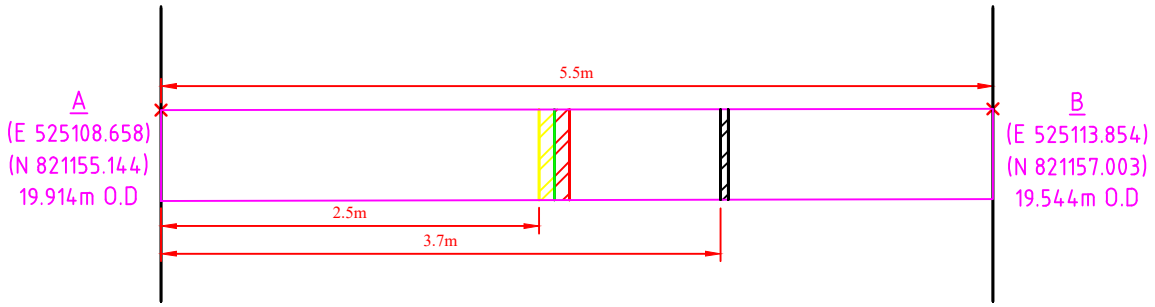
Trench Sides Unstable
Trench Dry

Ground Conditions:

GL-1.80 : Firm brown gravelly SILT with a high quantity of cobbles and a low boulder content
Cobble and boulders are of limestone
0.60 : Stiff

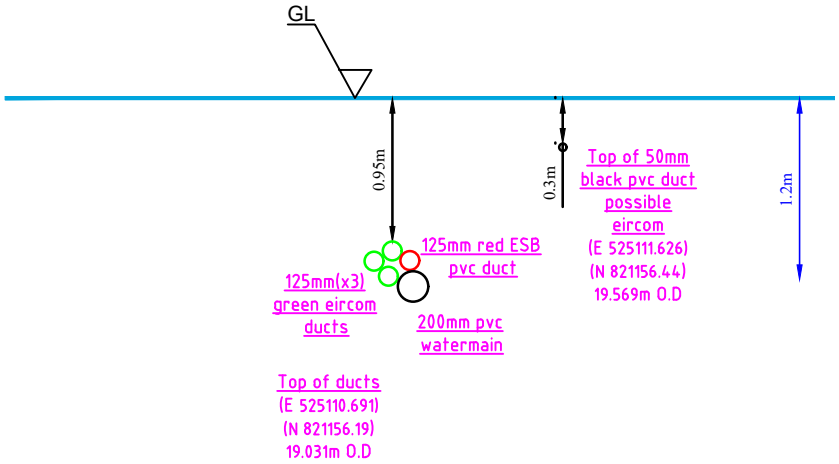
*ST-WM35 (*Lough Talt*) 16/05/2025 Scale : 1:50*
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

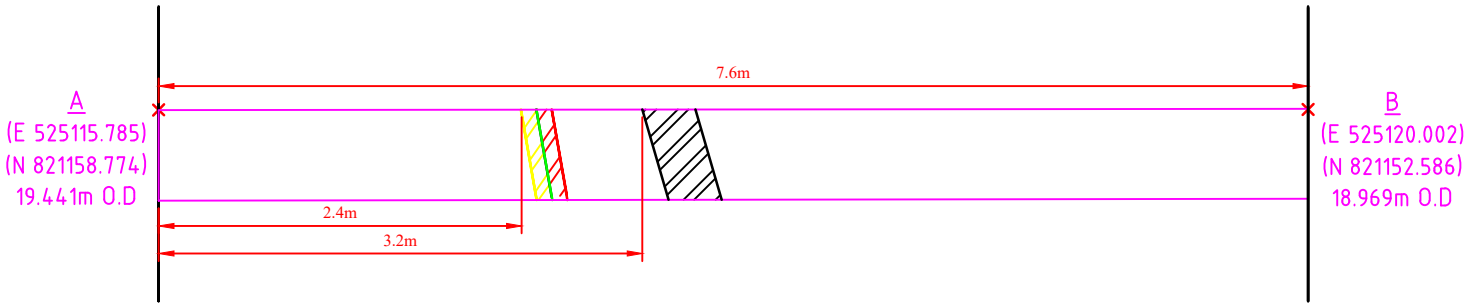
Trench Stable
Trench Dry

Ground Conditions:

GL-0.30 : (Made Ground) Stone 804
0.30-1.20 : Stiff brown gravelly SILT with a high cobble content
Cobbles are sub-rounded to sub-angular of siltstone

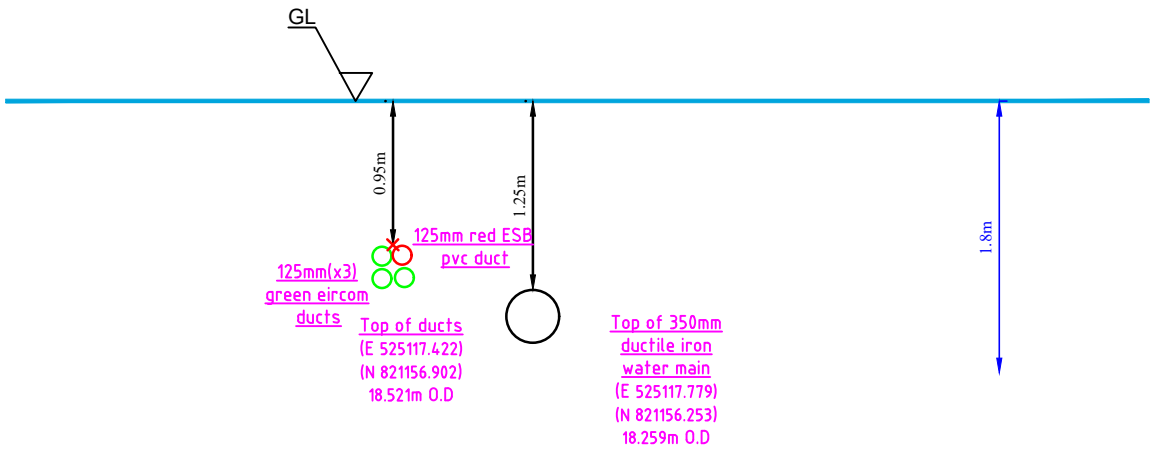
ST-WM35A (Lough Talt) 20/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.60m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

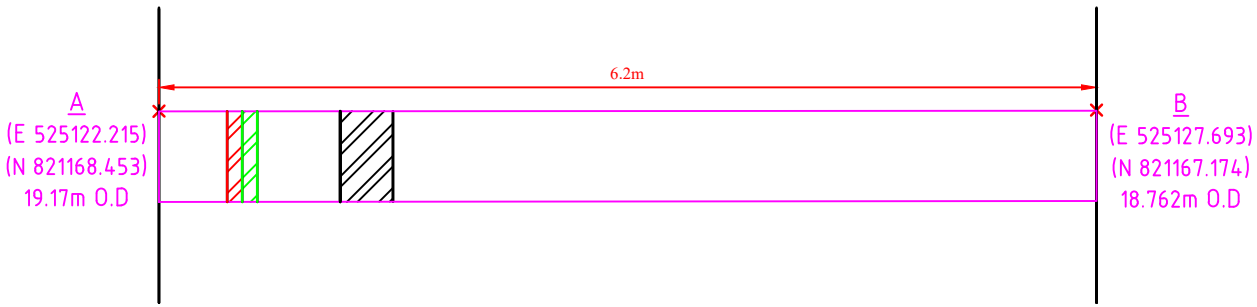
Trench Stable
Trench Dry

Ground Conditions:

GL-0.40 : (Made Ground) Stone 804
0.40-1.80 : Firm brown gravelly SILT with a low cobble content

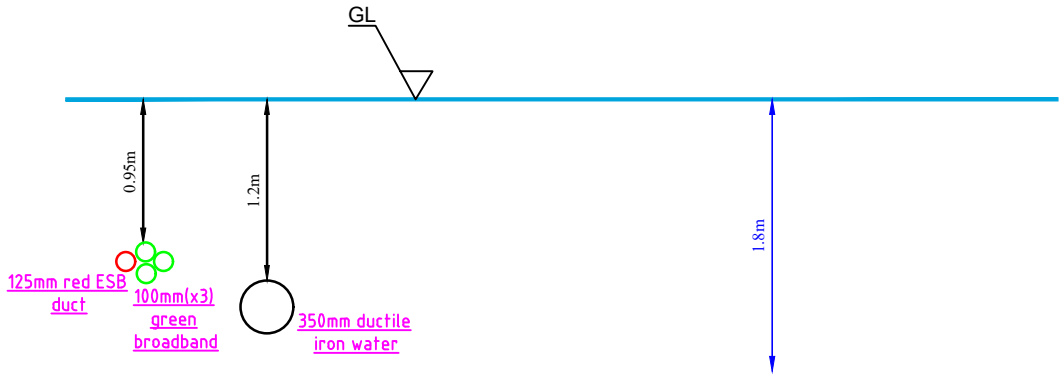
ST-WM36 (Lough Talt) 19/05/2025 Scale : 1:50
Irish Drilling Limited

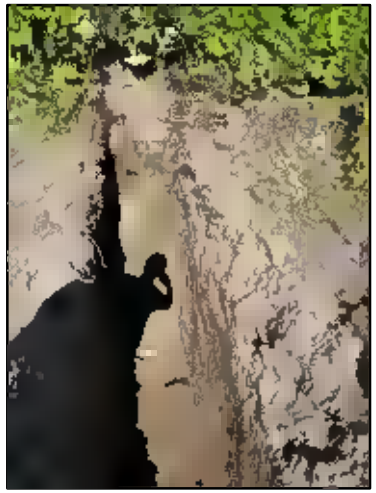
Plan





Section





Trench Dimensions:

Length of Trench: 6.20m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

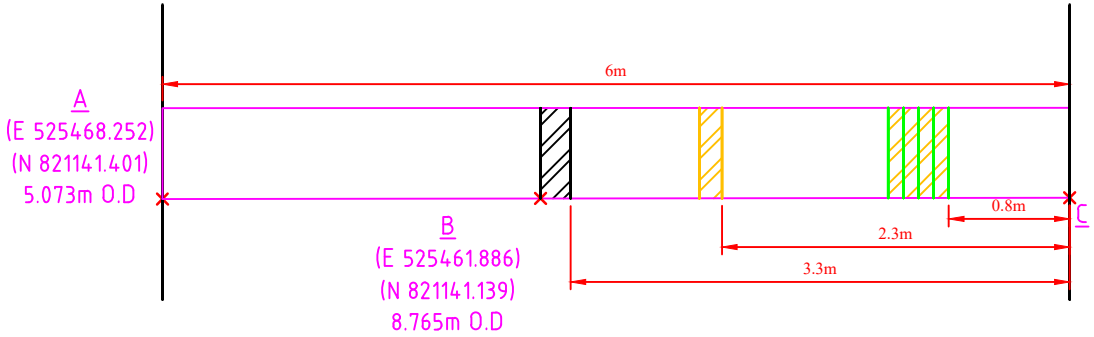
Trench Stable
Trench Dry

Ground Conditions:

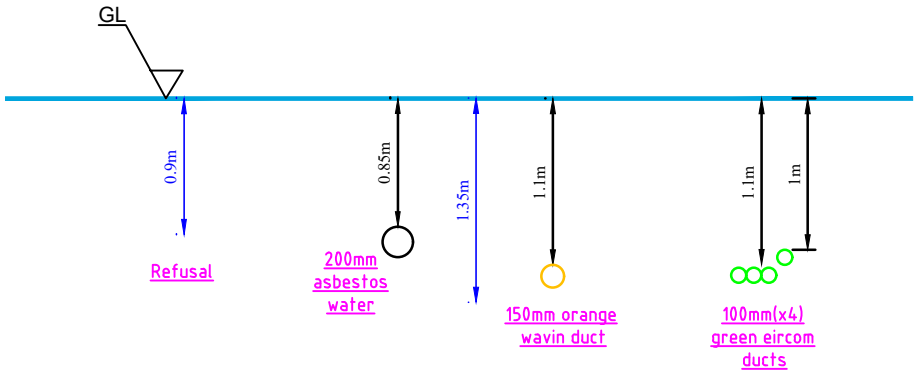
GL-0.50 : (Made Ground) Stone 804
0.50-1.80 : Firm brown gravelly SILT with a low cobble content

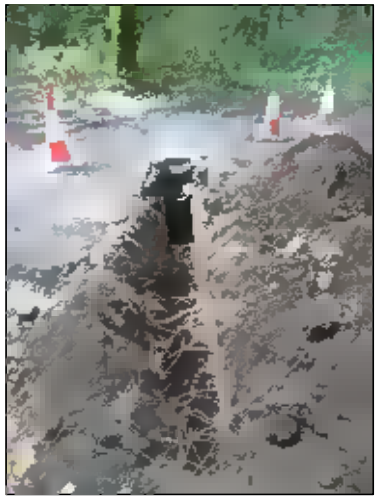
ST-WM37 (Lough Talt) 03/06/2025 Scale : 1:50
Irish Drilling Limited

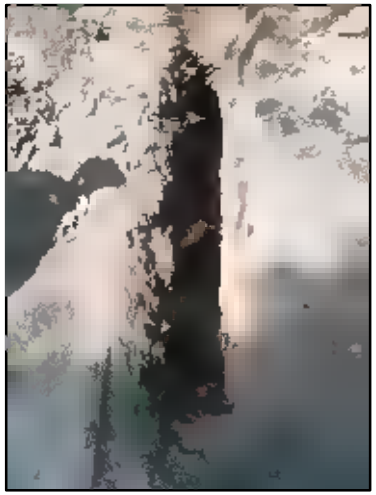
Plan



Section







Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 0.60m
Depth of Trench: 1.35m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00m-1.10m

Notes:

Backfill : 804+Bitumen

Remarks:

Trench Stable
Trench Dry

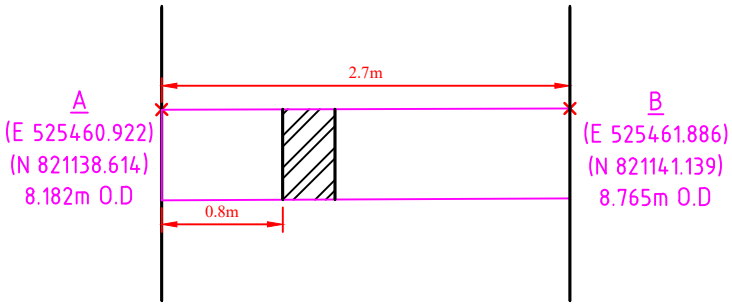
Very poor GPS signal coordinates and level errors

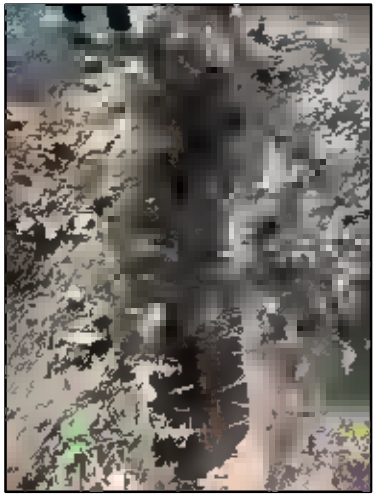
Ground Conditions:

GL-0.10 : (Made Ground) Tar
0.10-1.35 : (Made Ground) Brown sandy SILT/GRAVEL

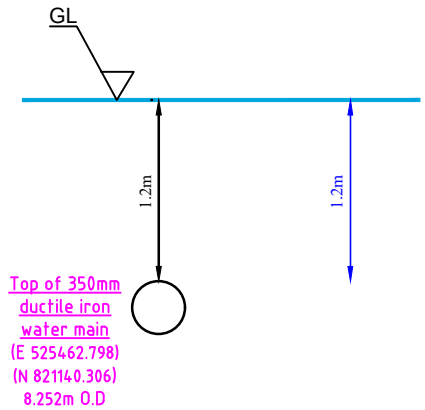
ST-WM37A (Lough Talt) 03/06/2025 Scale : 1:50
Irish Drilling Limited

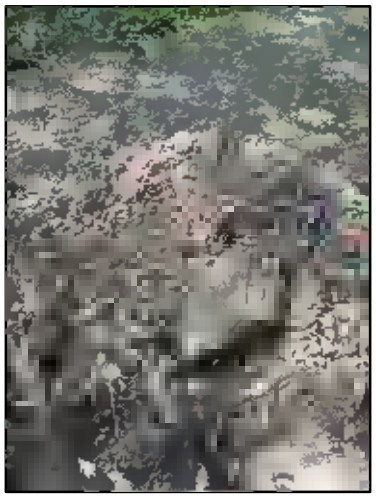
Plan





Section





Trench Dimensions:

Length of Trench: 2.30m
Width of Trench: 0.50m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00m-1.10m

Notes:

Backfill : 804

Remarks:

Trench Stable
Trench Dry

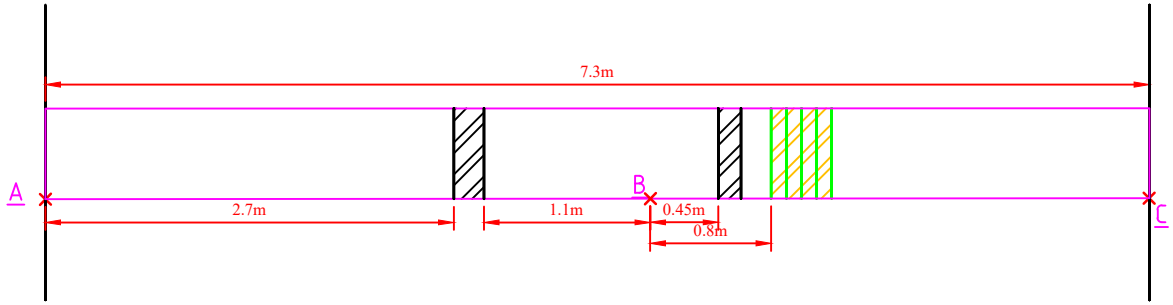
Very poor GPS signal possible error in levels

Ground Conditions:

GL-0.30 : (Made Ground) Grey rounded GRAVEL
0.30-0.90 : (Made Ground) Brown gravelly sandy SILT
0.90-1.20 : Rounded GRAVEL

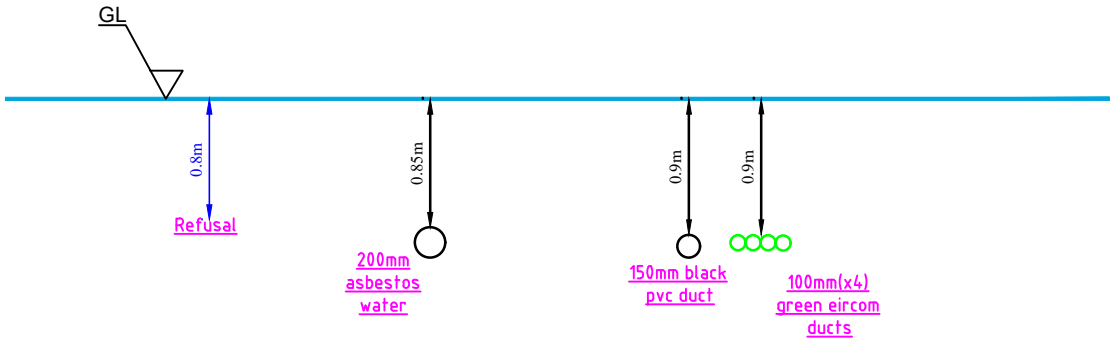
ST-WM37B (Lough Talt) 03/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.30m
Width of Trench: 1.00m
Depth of Trench: 1.00m

Logged by: PC

Notes:

Backfill : 804+Bitumen

Remarks:

Trench Stable
Trench Dry

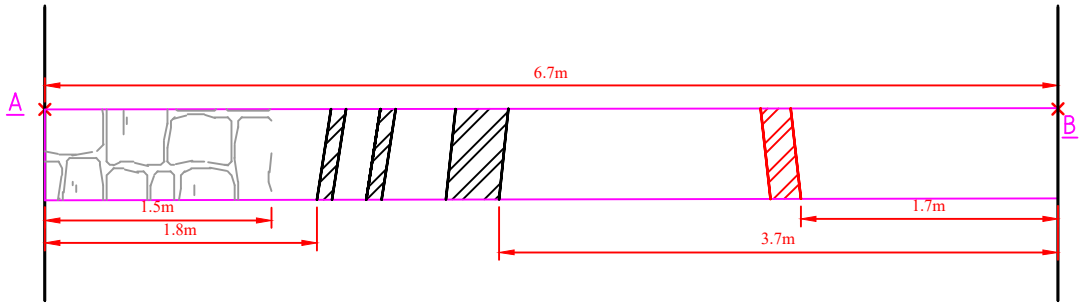
Very poor GPS signal coordinates and level errors

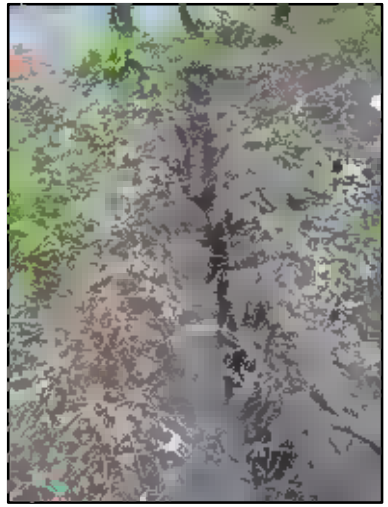
Ground Conditions:

GL-0.04 : (Made Ground) Tar
0.04-1.00 : (Made Ground) Brown sandy SILT/GRAVEL
Sand content is fine to coarse
Gravel is fine to coarse

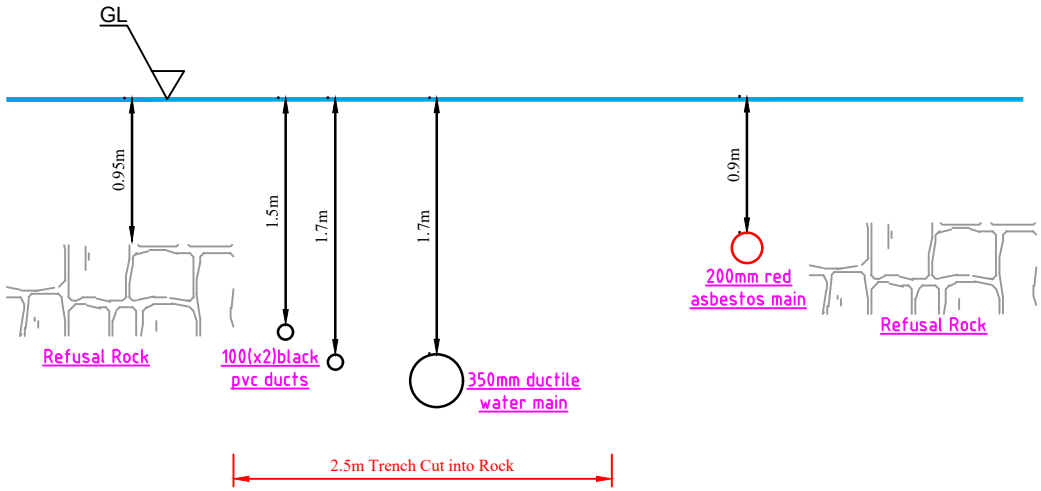
ST-WM37C (Lough Talt) 03/06/2025 Scale : 1:50
Irish Drilling Limited

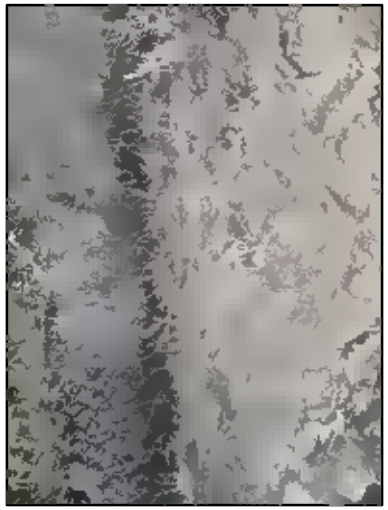
Plan





Section





Trench Dimensions:

Length of Trench: 6.70m
Width of Trench: 0.50m
Depth of Trench: 2.00m

Logged by: PC

Bulk Bag Sample @ 1.70m-1.80m

Notes:

Backfill : Arisings
Gravel surroundings around ducts

Remarks:

Trench Stable
Trench Dry

Very poor GPS signal coordinates and level errors

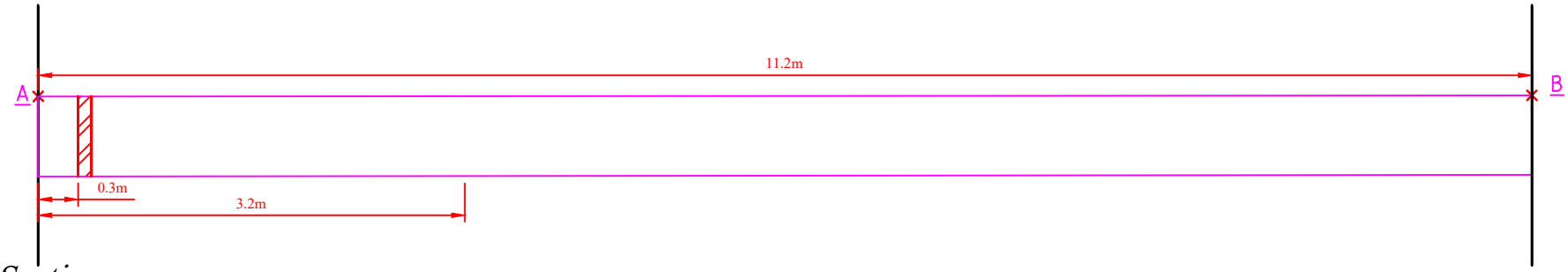
Ground Conditions:

GL-0.40 : (Made Ground) Leafs over a firm brown gravelly SILT
0.40-2.00 : Brown SILT GRAVEL

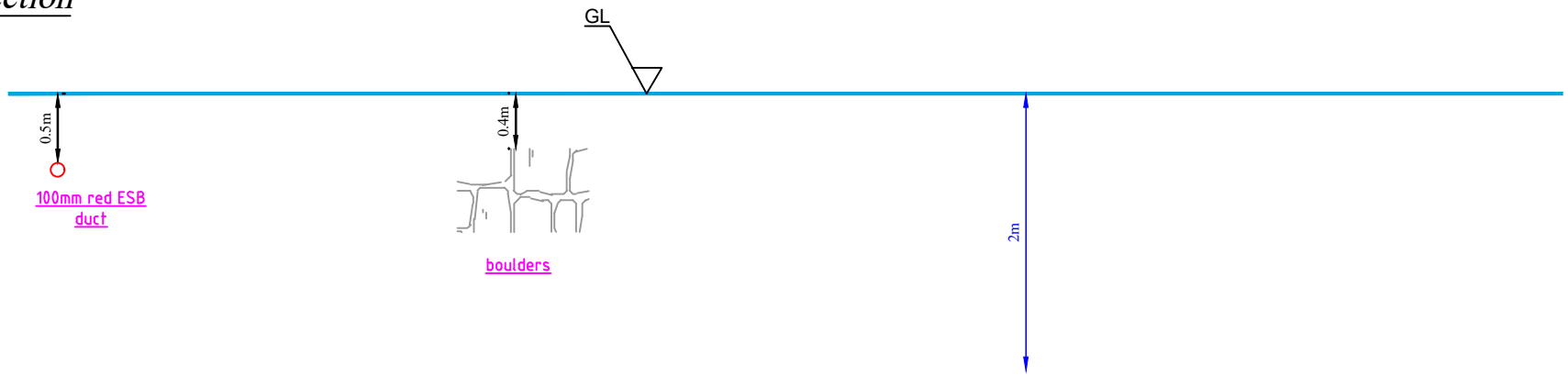
ST-WM40 (Lough Talt) 04/06/2025 Scale : 1:50
Irish Drilling Limited



Plan



Section





Trench Dimensions:

Length of Trench: 11.20m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: PC

Bulk Bag Sample @ 1.60m-1.70m

Notes:

Backfill : Bitumen and 804

Remarks:

Trench Stable
Trench Dry

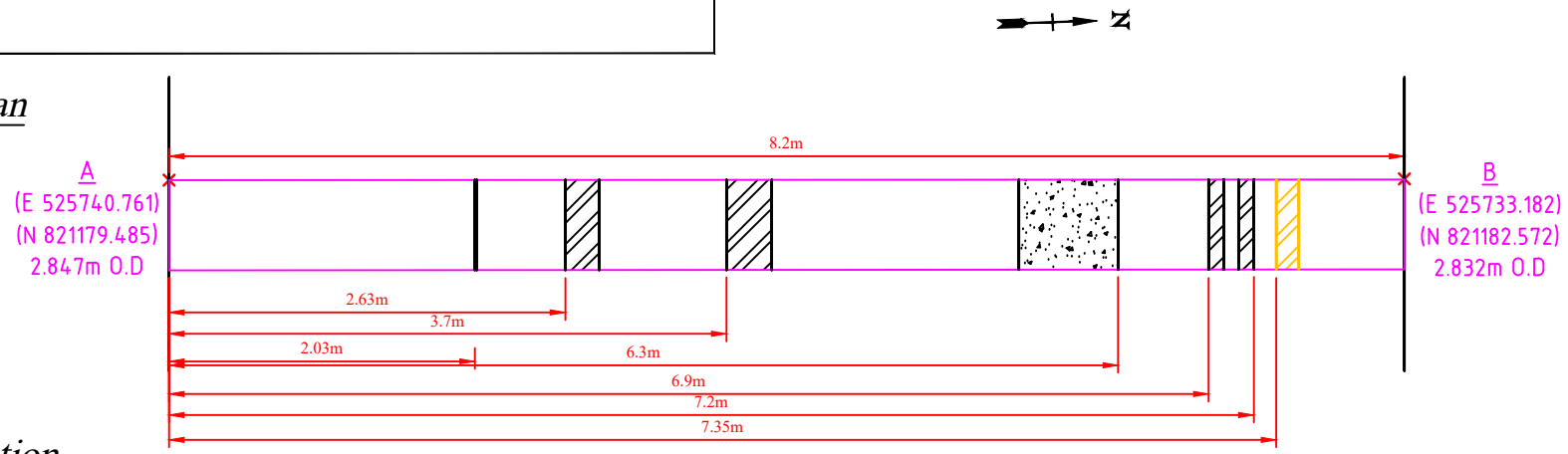
Very poor GPS signal coordinates and level errors

Ground Conditions:

GL-0.08 : (Made Ground) Tarmac
0.08-0.70 : Dark brown grey silty sandy GRAVEL
0.70-2.00 : Light brown sandy SILT

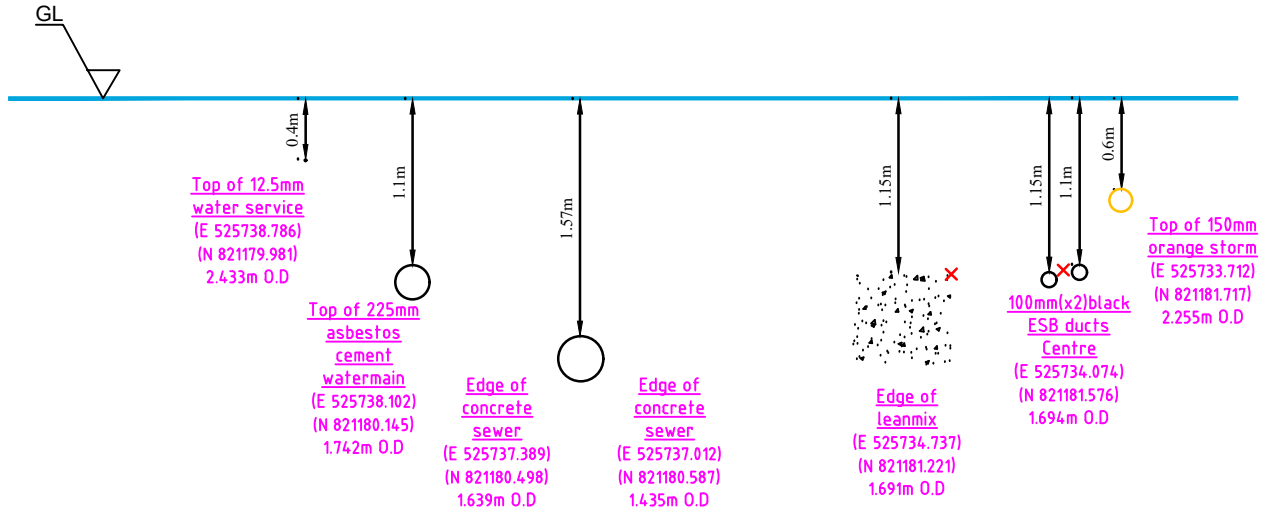
ST-WM43 (Lough Talt) 28/04/2025 Scale : 1:50
Irish Drilling Limited

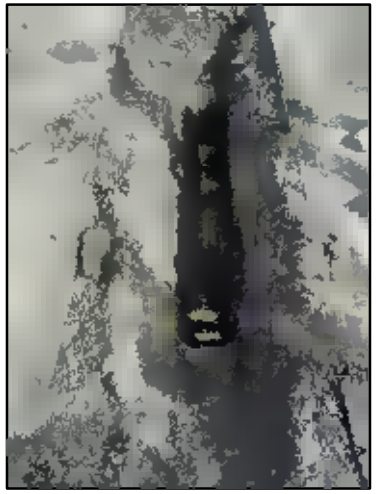
Plan





Section





Trench Dimensions:

Length of Trench: 8.20m
Width of Trench: 0.80m
Depth of Trench: 1.57m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.80m-1.00m
Jar Sample @ 0.80m-1.00m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

Trench Stable
Trench Dry

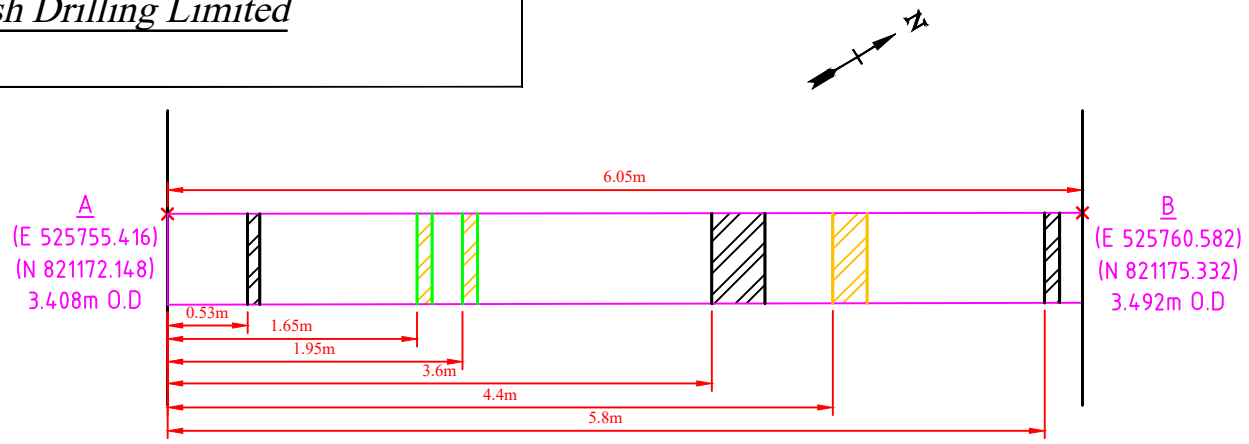
Ground Conditions:

GL-0.30 : (Made Ground) Bitumen
0.30-0.50 : (Made Ground) CLAY with angular limestone cobbles
0.50-1.57 : (Made Ground) Brown gravelly SILT with a high quantity of angular cobbles

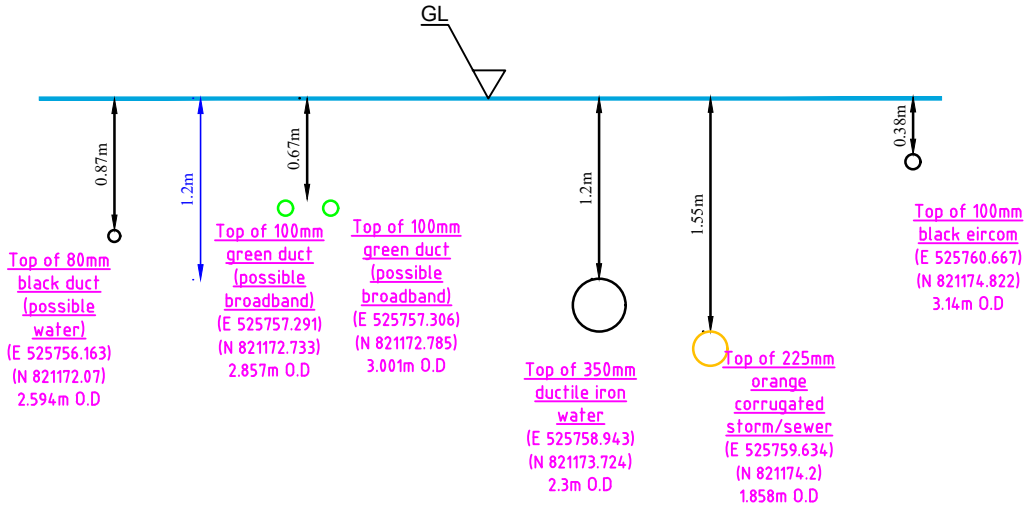
ST-WM44 (Lough Talt) 28/04/2025 Scale : 1:50
Irish Drilling Limited



Plan



Section





Trench Dimensions:

Length of Trench: 6.05m
Width of Trench: 0.80m
Depth of Trench: 1.20m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.70m-0.90m
Jar Sample @ 0.70m-0.90m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

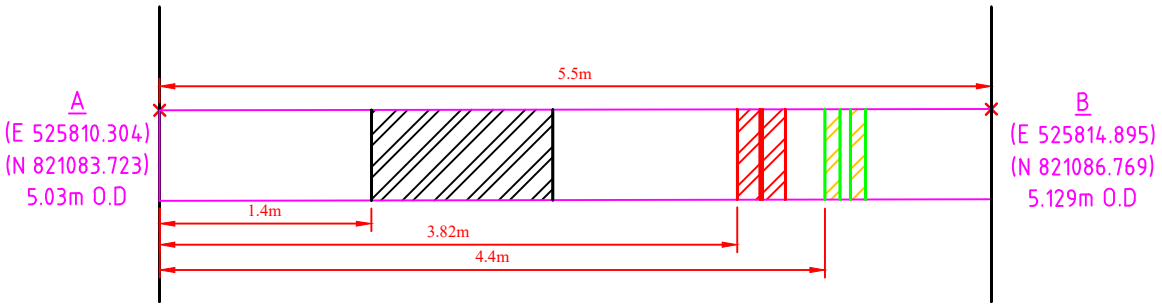
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : (Made Ground) Bitumen
0.10-0.35 : (Made Ground) STONE+ COBBLES
0.35-1.20 : (Made Ground) Firm dark grey gravelly SILT

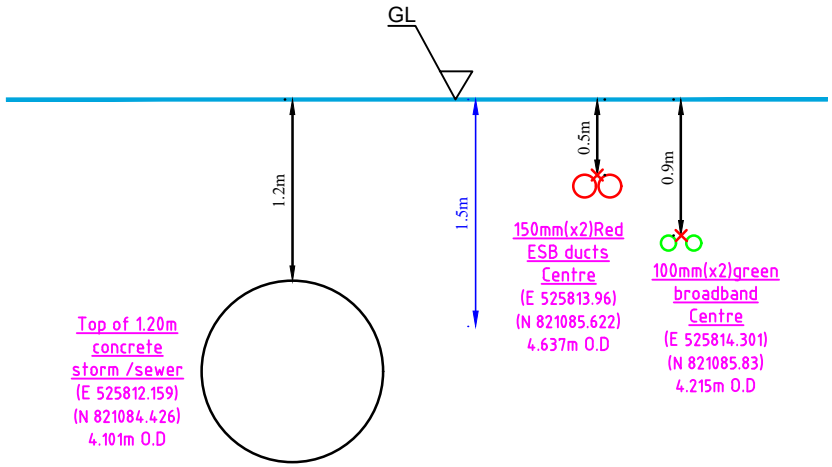
ST-WM45 (Lough Talt) 29/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 0.80m
Depth of Trench: 1.20m

Logged by: DF

Samples:
Environmental Sample

Notes:

Backfill : Leanmix and Bitumen

Remarks:

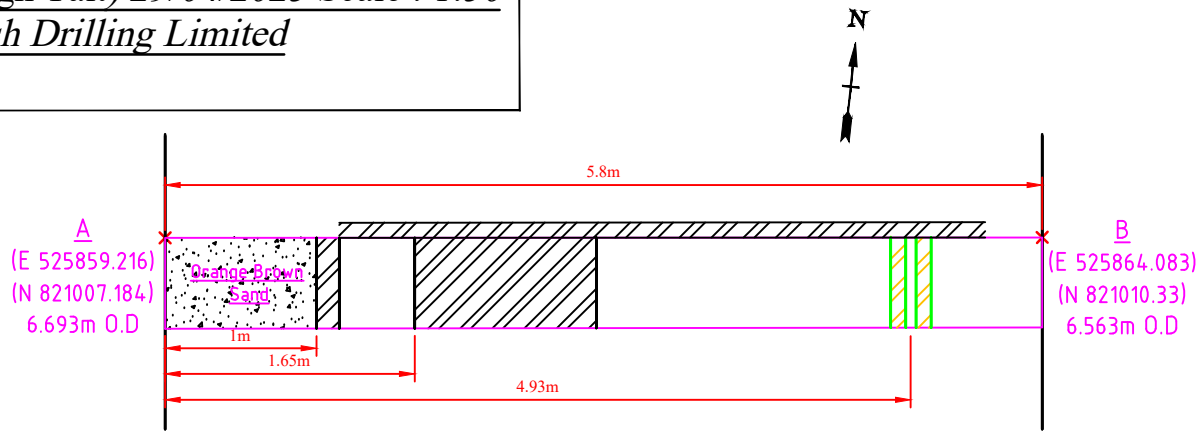
Trench Stable
Trench Dry

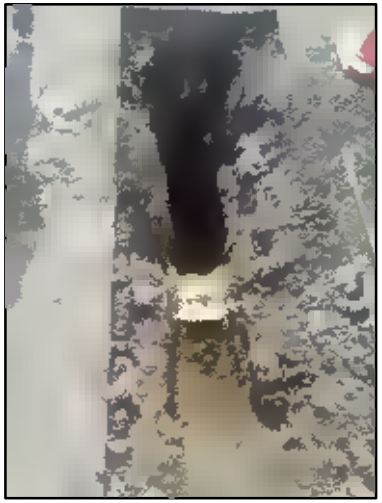
Ground Conditions:

GL-0.15 : (Made Ground) Bitumen
0.15-0.60 : (Made Ground) 804
0.35-1.20 : (Made Ground) Firm dark grey gravelly SILT with angular cobbles

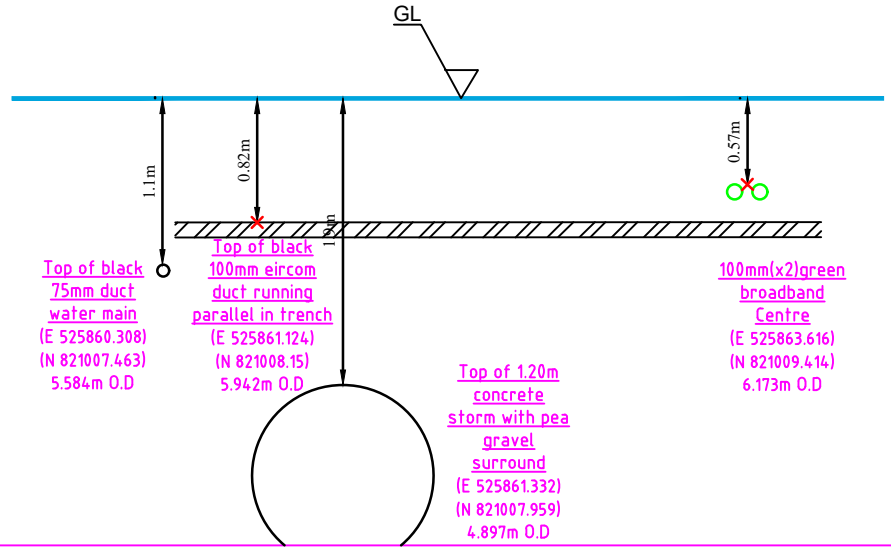
ST-WM46 (Lough Talt) 29/04/2025 Scale : 1:50
Irish Drilling Limited

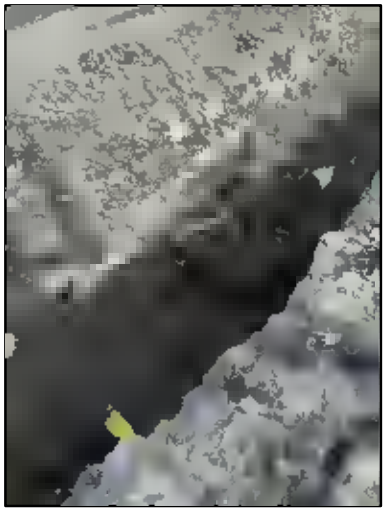
Plan





Section





Trench Dimensions:

Length of Trench: 5.80m
Width of Trench: 1.00m
Depth of Trench: 1.40m

Logged by: DF

Samples:
Bulk Bag Sample @ 1.00m-1.20m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

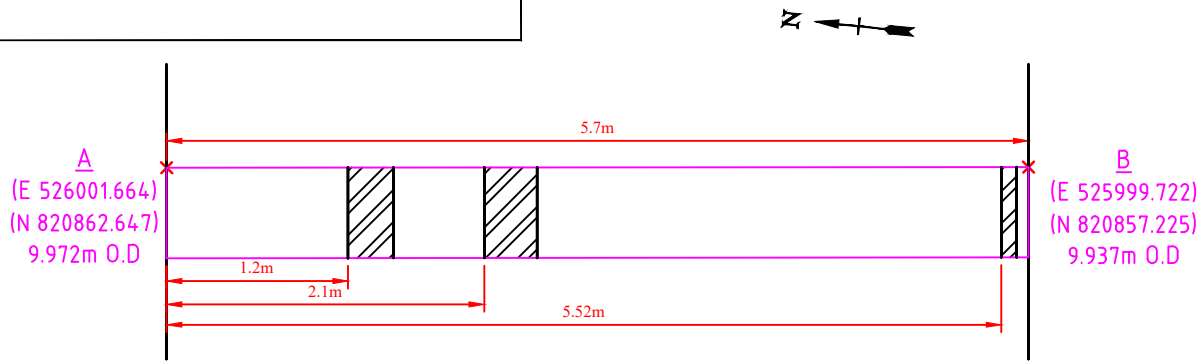
Trench Stable
Trench Dry

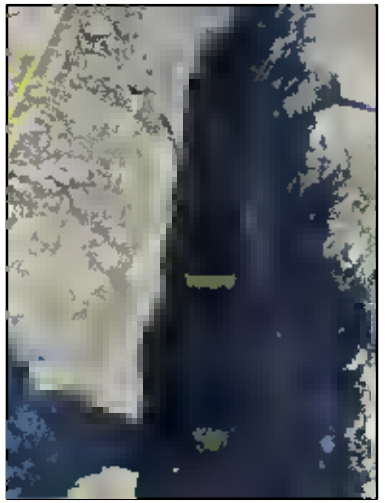
Ground Conditions:

GL-0.25 : (Made Ground) Bitumen
0.25-1.00 : (Made Ground)SILT+ STONE+ COBBLES
1.00-1.40 : (Made Ground) GRAVEL and COBBLE fill

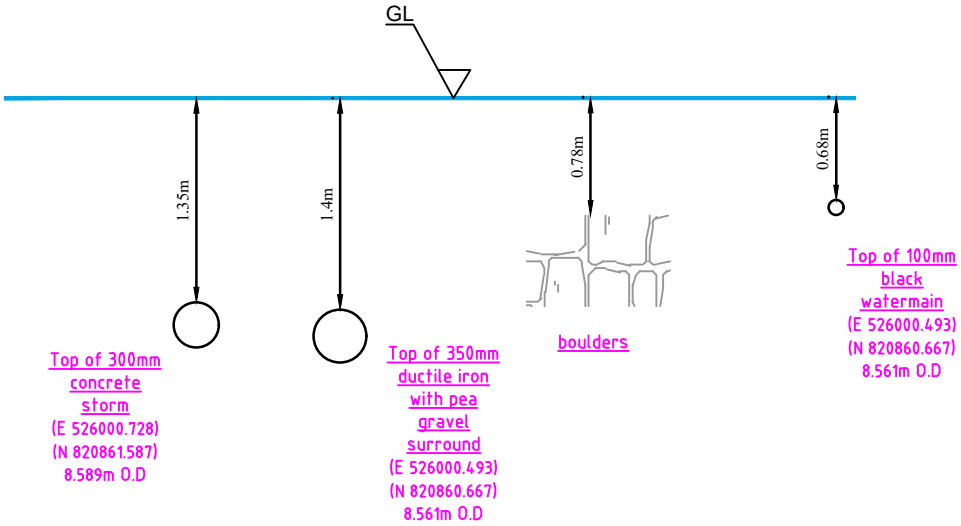
ST-WM48 (Lough Talt) 30/04/2025 Scale : 1:50
Irish Drilling Limited

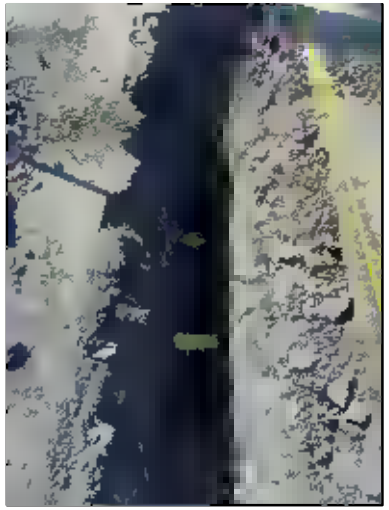
Plan





Section





Trench Dimensions:

Length of Trench: 5.70m
Width of Trench: 1.00m
Depth of Trench: 1.40m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.90m-1.10m
Bulk Bag Sample @ 1.20m-1.40m

Notes:

Backfill : Leanmix and Bitumen

Remarks:

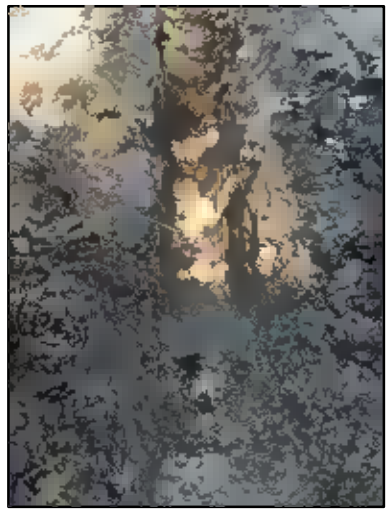
Trench Stable
Trench Dry

Ground Conditions:

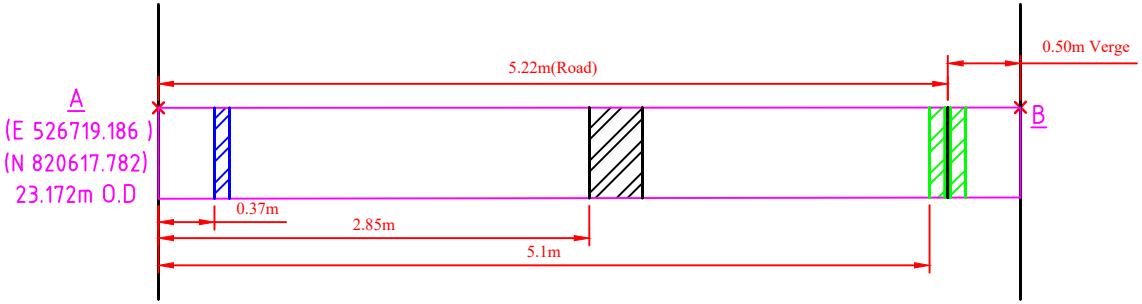
GL-0.15 : (Made Ground) Bitumen
0.15-0.60 : (Made Ground) 804
0.60-1.40 : (Made Ground) Brown SAND and GRAVEL

ST-WM51 (Lough Talt) 30/04/2025 Scale : 1:50
Irish Drilling Limited

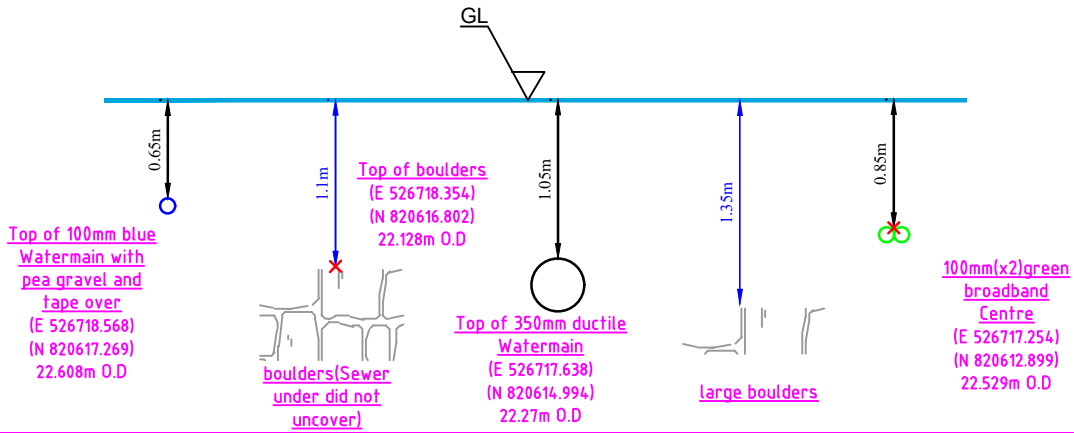




Plan



Section



Trench Dimensions:

Length of Trench: 5.70m
Width of Trench: 0.60m
Depth of Trench: 1.35m

Logged by: DF

Samples:
Bulk Bag Sample @ 1.00-1.10m
Bulk Bag Sample @ 1.10-1.30m

Notes:

Backfill : 804

Remarks:

Trench Stable
Low inflow of water @ 1.30m

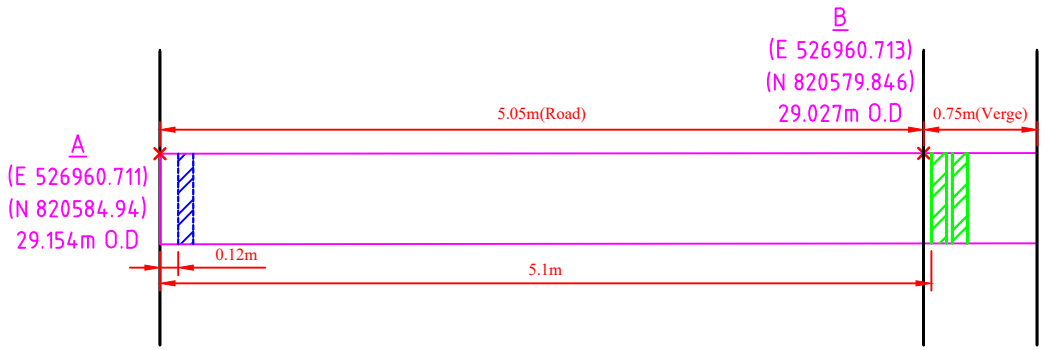
Levels and coordinates may be incorrect due to tree cover

Ground Conditions:

GL-0.18 : Bitumen
0.18-1.10 : (Made Ground) 804 and COBBLES
1.10-1.35 : Light grey slightly gravelly silty SAND with a low quantity of cobbles
Gravel content is sub-rounded fine to coarse
Cobbles are sub-angular

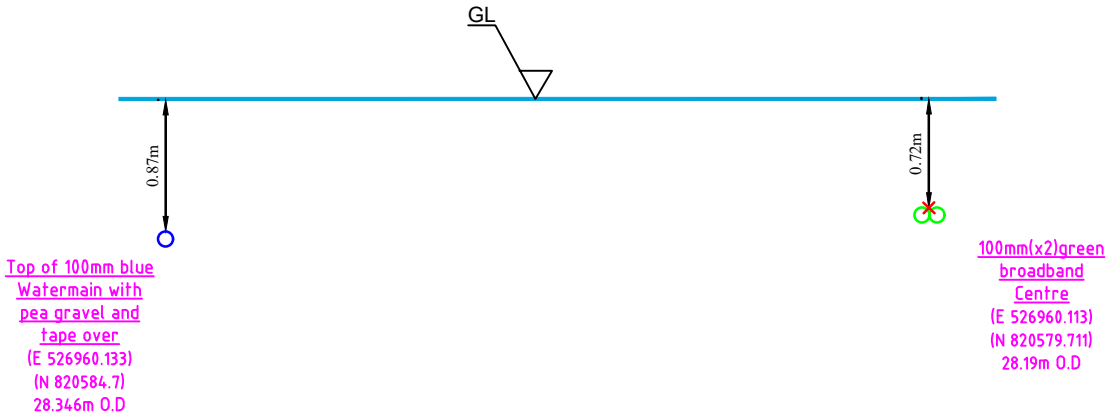
ST-WM52 (Lough Talt) 30/04/2025 Scale : 1:50
Irish Drilling Limited

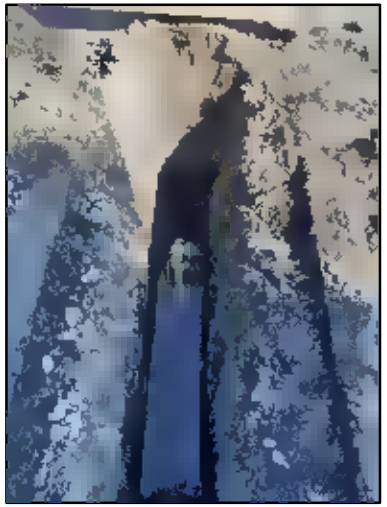
Plan





Section





Trench Dimensions:

Length of Trench: 5.80m
Width of Trench: 0.60m
Depth of Trench: 1.10m

Logged by: DF

Samples:
Bulk Bag Sample @ 0.60-0.80m
Bulk Bag Sample @ 0.95-1.05m

Notes:

Backfill : 804 and Bitumen

Remarks:

Trench Stable

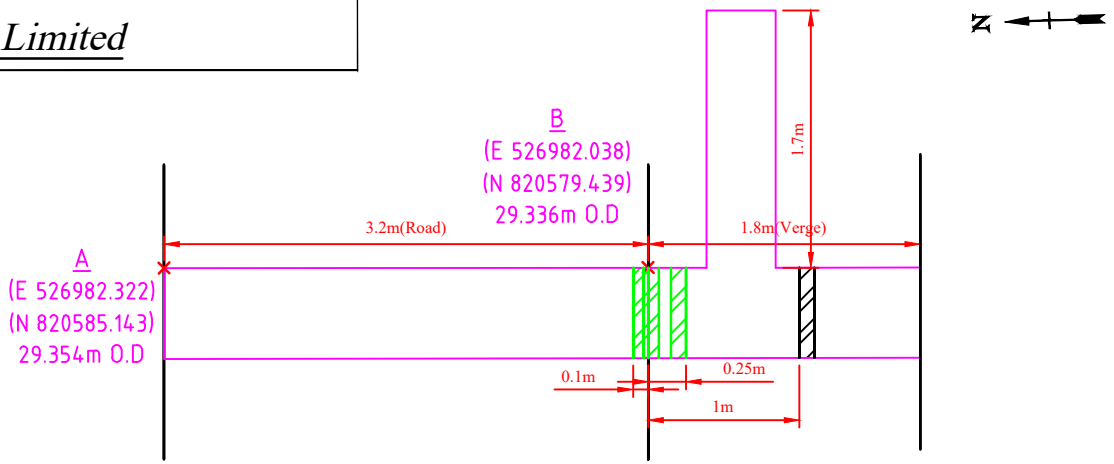
High inflow of water @ 1.00m rise up to 0.90m, trench terminated due to water ingress

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.35 : (Made Ground) 804 and COBBLES
0.35-1.10: Brown silty gravelly SAND with a medium quantity of cobbles
Gravel content is angular to rounded fine to coarse
Cobbles are sub-angular

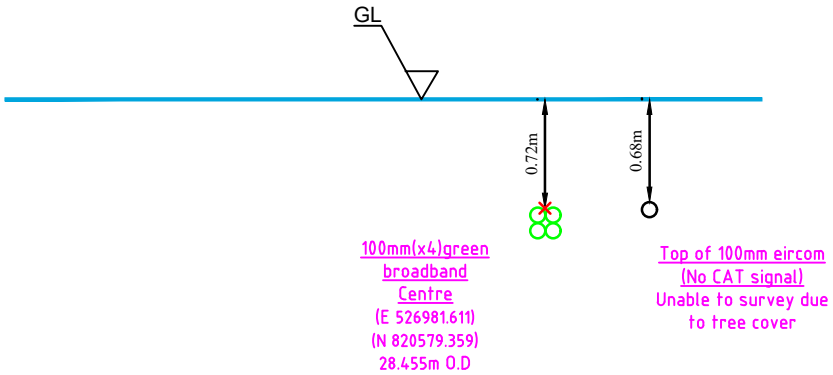
ST-WM52A (Lough Talt) 01/04/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 0.60m
Depth of Trench: 1.45m

Logged by: DF

Samples:
Bulk Bag Sample @ 1.10-1.30m

Notes:

Backfill : 804 and Bitumen

Remarks:

Trench Stable

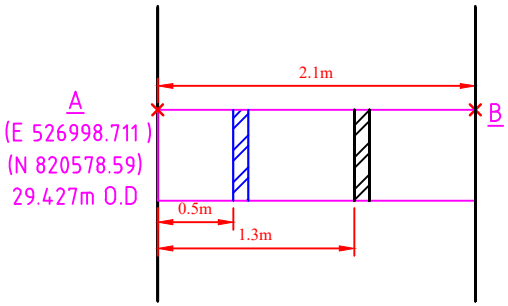
High inflow of water @ 1.00m used pump to remove water

Ground Conditions:

GL-0.15 : Bitumen
0.10-0.40 : (Made Ground) 804 type material
0.40-1.00 : (Made Ground) COBBLE in a slightly sandy gravel infill
1.00-1.45: Probable Residual ROCK recovered as angular flat tabular COBBLES

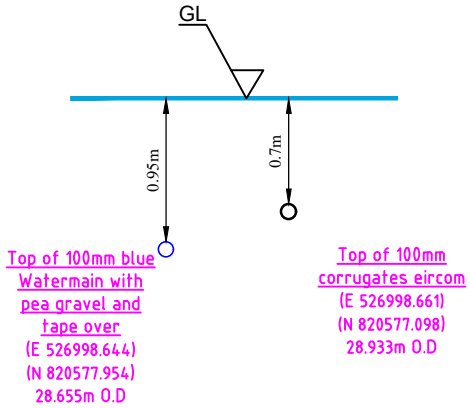
ST-WM52B (Lough Talt) 01/05/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.10m
Width of Trench: 0.60m
Depth of Trench: 0.95m

Logged by: DF

Notes:

Backfill : 804 and Arisings

Remarks:

Trench Stable
Trench Dry

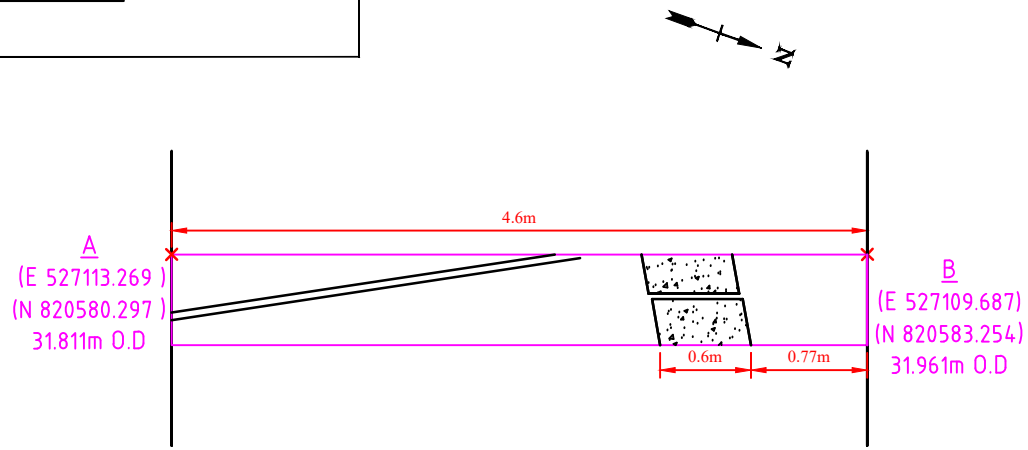
Ground Conditions:

GL-0.95 : Grass over a soft brown sandy SILT with a medium quantity of angular to sub-angular cobbles

ST-WM53 (Lough Talt) 04/06/2025 Scale : 1:50
Irish Drilling Limited

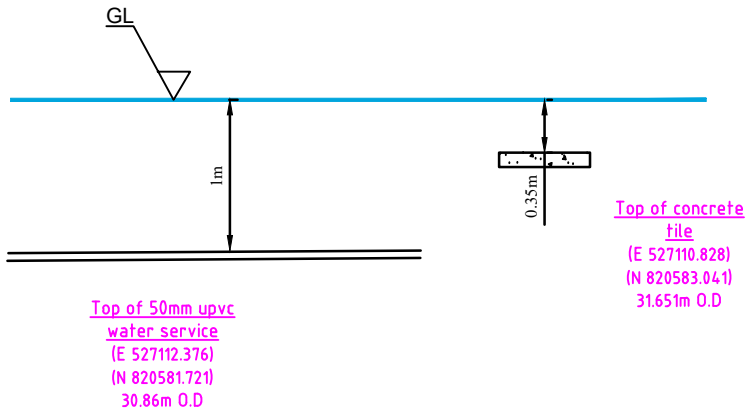


Plan



Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 1.00m
Depth of Trench: 1.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.90-1.00m

Notes:

Backfill : 804 and Bitumen

Remarks:

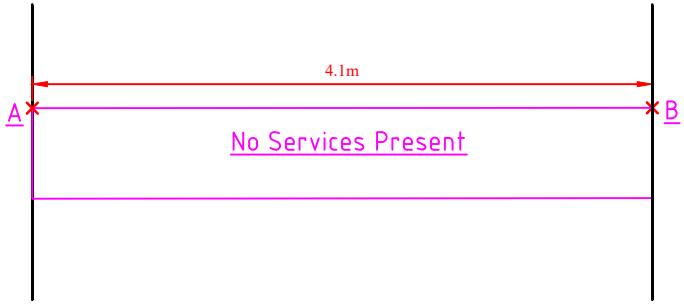
Trench Stable
Trench Dry

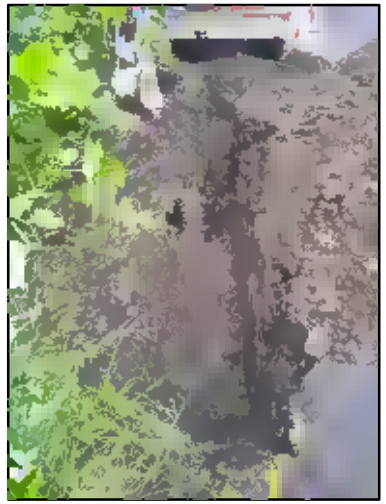
Ground Conditions:

GL-0.08 : (Made Ground) Bitumen
0.08-0.30 : (Made Ground)Tarmac
0.30-0.60 : Grey silty sandy GRAVEL
0.60-1.00 : Light brown sandy GRAVEL

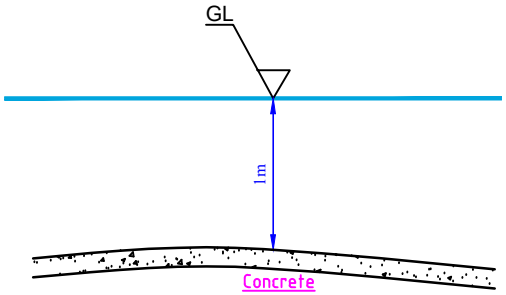
ST-WM56 (Lough Talt) 04/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.10m
Width of Trench: 0.60m
Depth of Trench: 1.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.70-0.80m

Notes:

Backfill : 804+Arisings

Remarks:

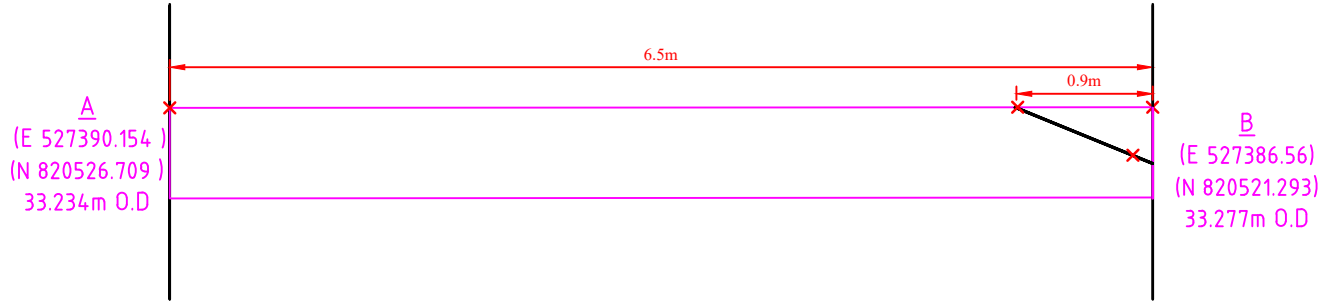
Trench Stable
Trench Dry

Ground Conditions:

GL-1.00 : (Made Ground) Grass over a firm brown sandy gravelly SILT
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to sub-rounded
1.00 : Concrete

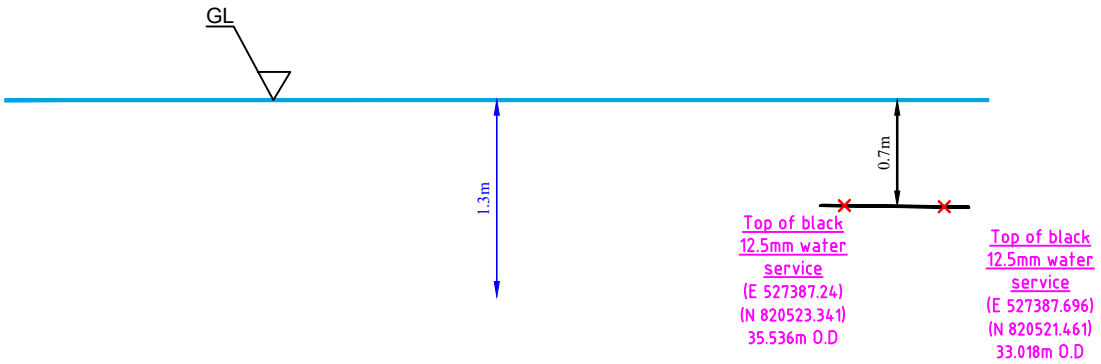
ST-WM56A (Lough Talt) 04/06/2025 Scale : 1:50
Irish Drilling Limited

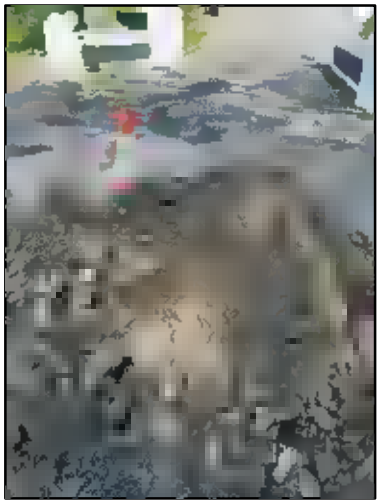
Plan





Section





Trench Dimensions:

Length of Trench: 6.50m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00-1.10m

Notes:

Backfill : 804+Bitumen

Remarks:

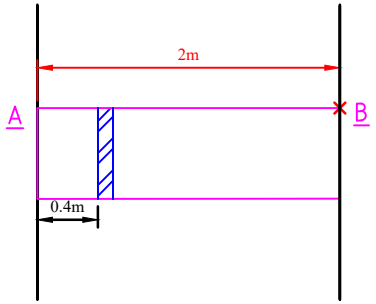
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : (Made Ground) Bitumen
0.10-0.20 : (Made Ground)Tarmac
0.20-1.30 : Brown slightly clayey sandy silty GRAVEL with a medium quantity of cobbles
Sand content is fine to coarse
Gravel is fine to coarse angular to sub-angular
Cobbles are angular to sub-angular of limestone

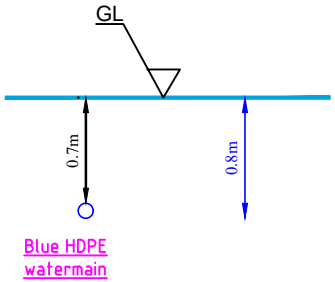
ST-WM58 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 2.00m
Width of Trench: 1.00m
Depth of Trench: 0.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.60-0.70m

Notes:
Backfill : 804+Bitumen

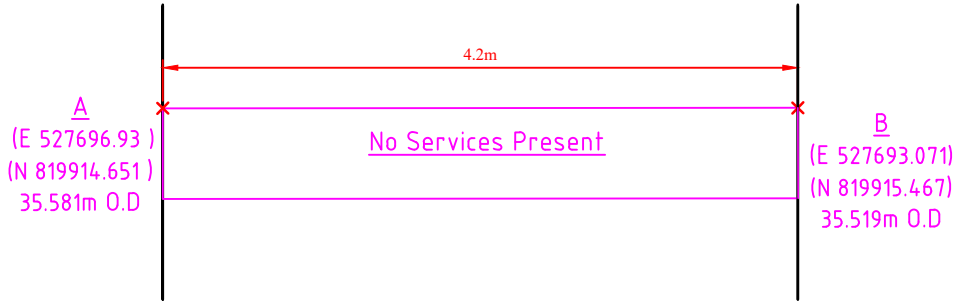
Remarks:
Trench Stable
Large inflow of water @ 0.70m rising up to 0.30m

Very poor GPS signal coordinates and level errors

Ground Conditions:
GL-0.10 : (Made Ground) Bitumen
0.10-0.80 : (Made Ground) Brown grey silty sandy GRAVEL

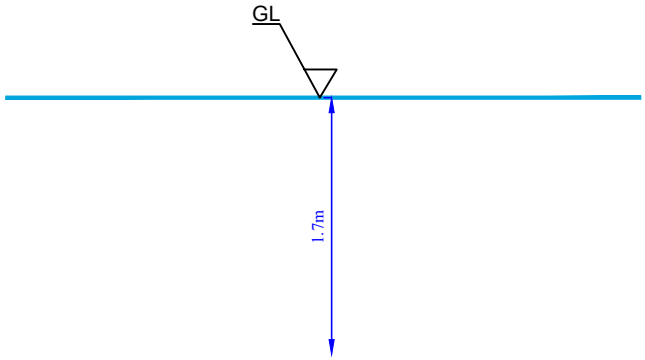
ST-WM59 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

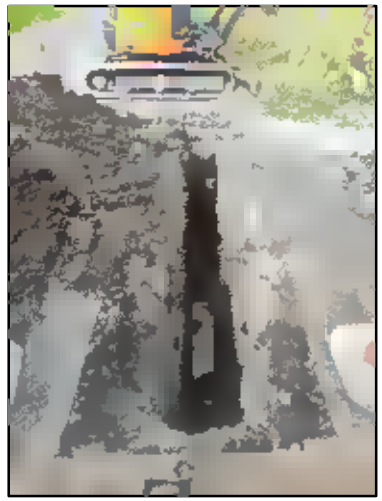
Plan





Section





Trench Dimensions:

Length of Trench: 4.20m
Width of Trench: 1.00m
Depth of Trench: 1.70m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.50-1.60m

Notes:

Backfill : 804+Bitumen

Remarks:

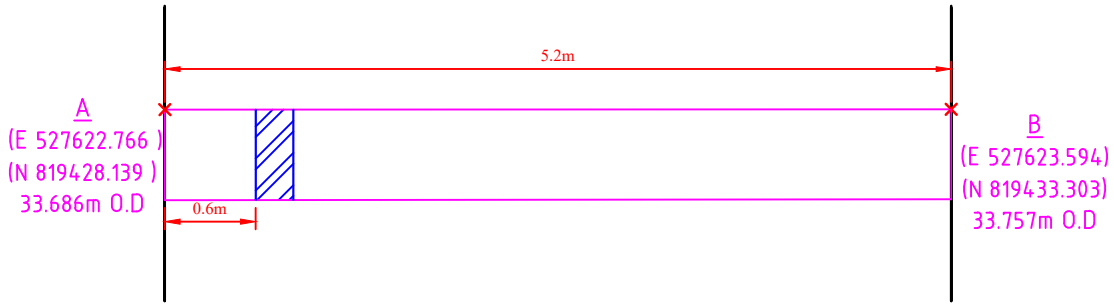
Trench Stable
Moderate inflow of water @ 1.50m

Ground Conditions:

GL-0.40 : (Made Ground) Bitumen
0.40-0.20 : (Made Ground) Bitumen
0.20-0.40 : Dark brown pseudo fibrous PEAT

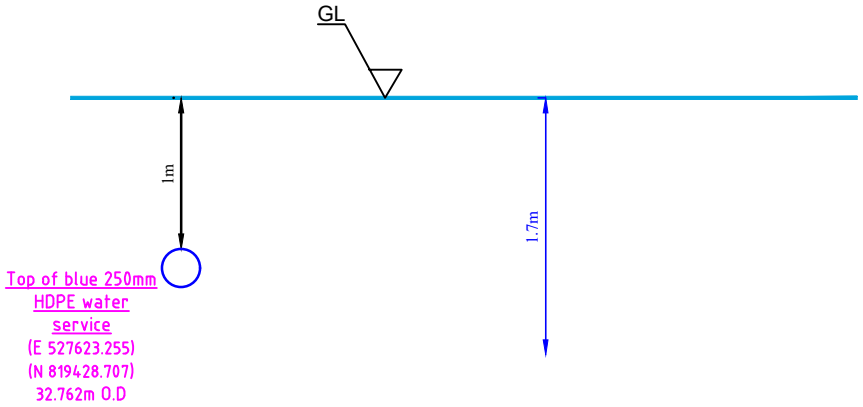
ST-WM60 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 5.20m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.30-1.40m

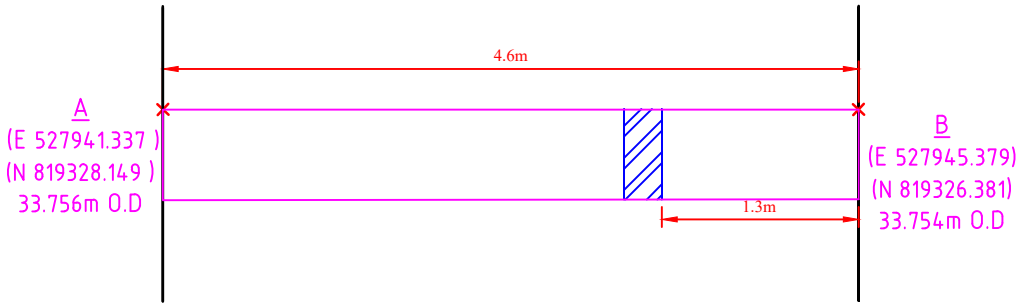
Notes:
Backfill : 804+Bitumen

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.10 : (Made Ground) Bitumen
0.10-0.30 : (Made Ground) Grey brown sandy GRAVEL
0.30-0.60 : Orange brown gravelly SAND
0.60-1.50 : Brown grey silty sandy GRAVEL

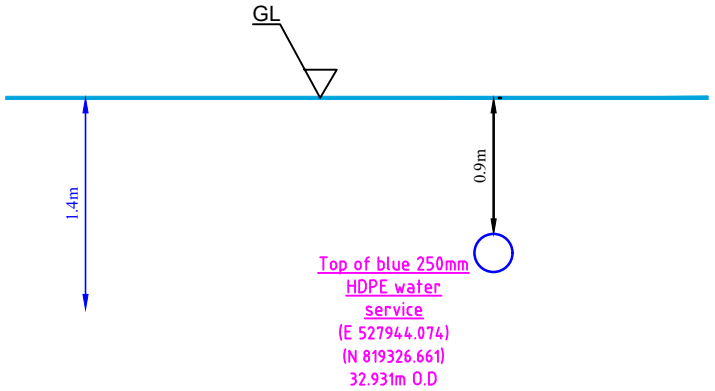
ST-WM61 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

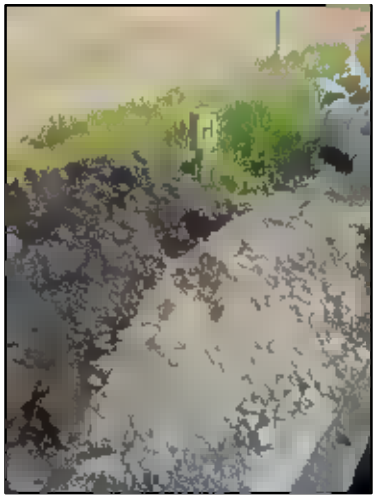
Plan





Section





Trench Dimensions:

Length of Trench: 4.60m
Width of Trench: 0.70m
Depth of Trench: 1.40m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.10-1.20m

Notes:

Backfill : 804+Bitumen

Remarks:

Trench Stable
Moderate inflow of water around service

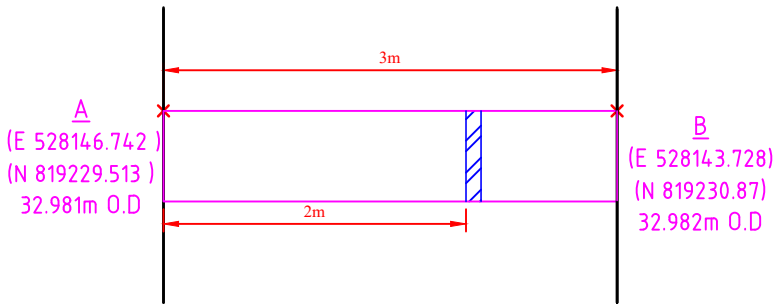
Ground Conditions:

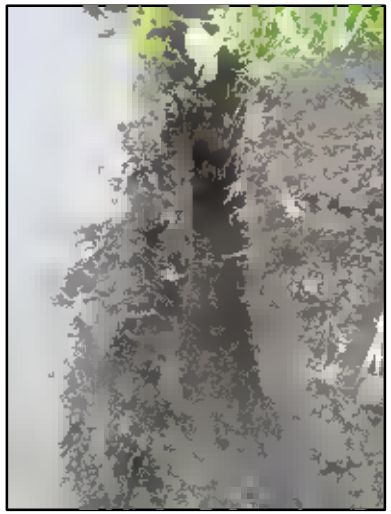
GL-0.10 : (Made Ground) Bitumen
0.10-1.00 : (Made Ground) Brown slightly clayey silty sandy GRAVEL
1.00-1.40 : Dark brown spongy pseudo fibrous PEAT

*ST-WM62 (*Lough Talt*) 05/06/2025 Scale : 1:50*
Irish Drilling Limited

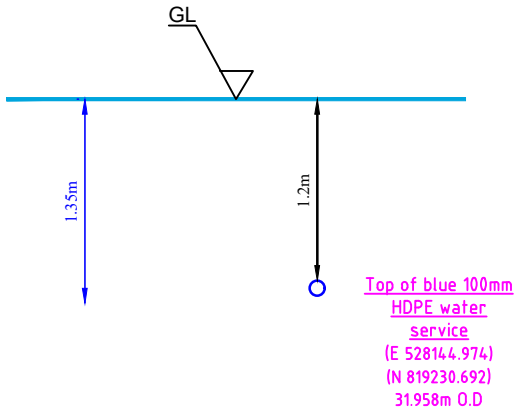
N

Plan





Section





Trench Dimensions:

Length of Trench: 3.00m
Width of Trench: 0.40m
Depth of Trench: 1.35m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.10-1.10m

Notes:

Backfill : 804+Bitumen

Remarks:

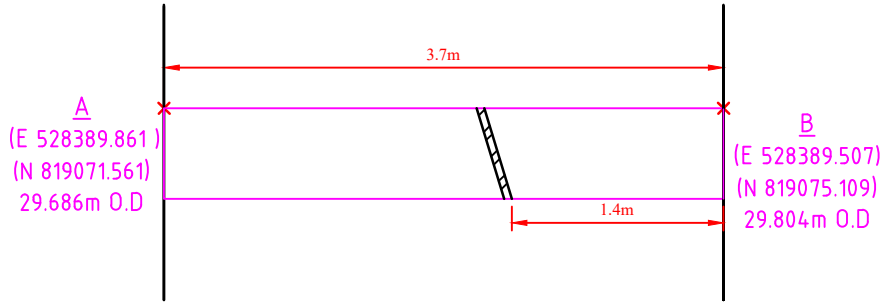
Trench Stable
Trench Dry

Ground Conditions:

GL-0.70 : Grass over a brown silty GRAVEL
0.70-1.35 : Firm light brown gravelly SILT

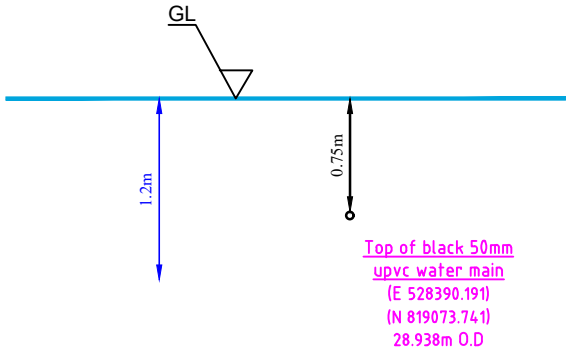
ST-WM64 (Lough Talt) 06/06/2025 Scale : 1:50
Irish Drilling Limited

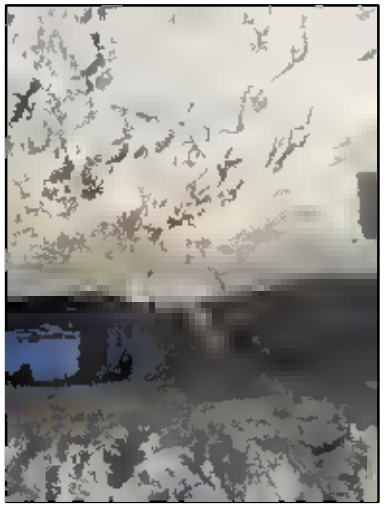
Plan





Section





Trench Dimensions:

Length of Trench: 3.70m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.10-1.10m

Notes:

Backfill : 804+Bitumen

Remarks:

Trench Stable
Moderate inflow of water
@ 1.20m

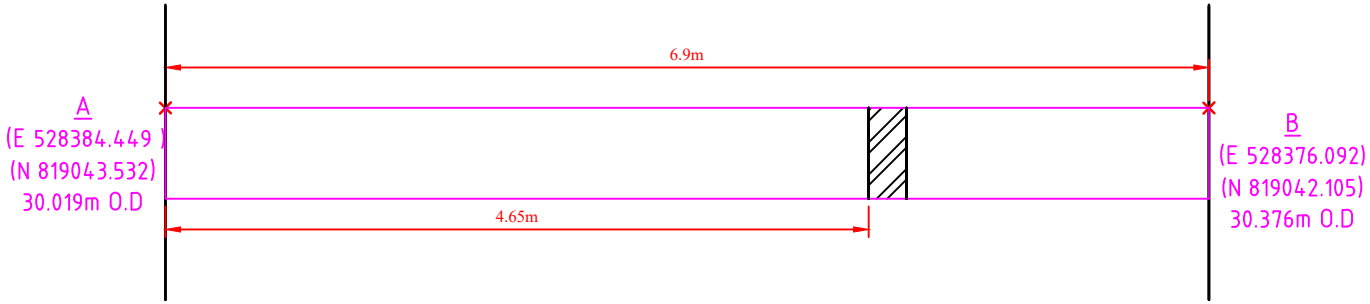
Ground Conditions:

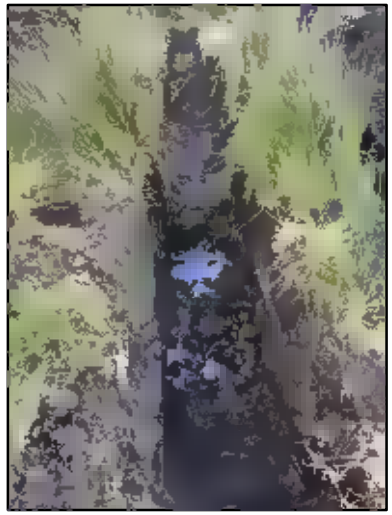
GL-0.09 : Bitumen
0.09-0.55 : Brown silty sandy GRAVEL
0.55-1.20 : Grey brown silty SAND

ST-WM64A (Lough Talt) 30/05/2025 Scale : 1:50
Irish Drilling Limited

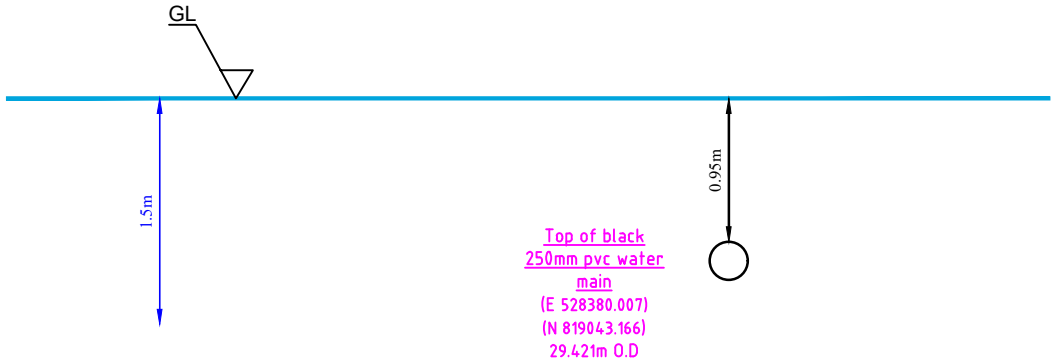
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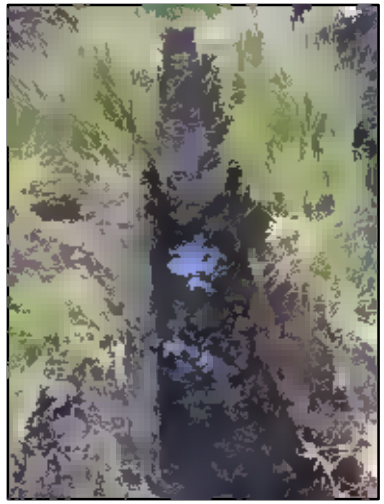
Plan





Section





Trench Dimensions:

Length of Trench: 6.90m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : 804+Bitumen

Remarks:

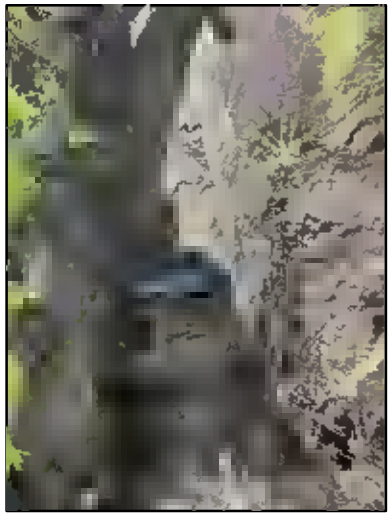
Trench Stable
Trench Dry

Ground Conditions:

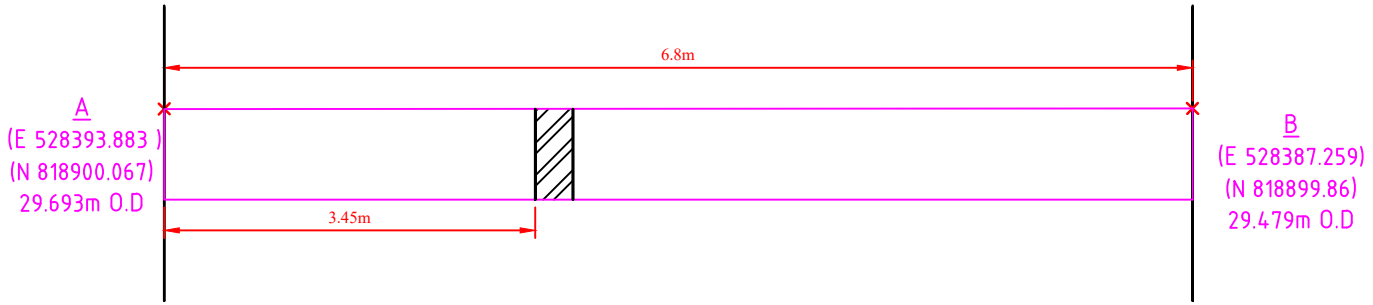
GL-0.50 : Soft dark brown PEAT/SILT
0.50-1.50 : Grey firm gravelly sandy SILT with cobbles

ST-WM64B (Lough Talt) 29/05/2025 Scale : 1:50
Irish Drilling Limited

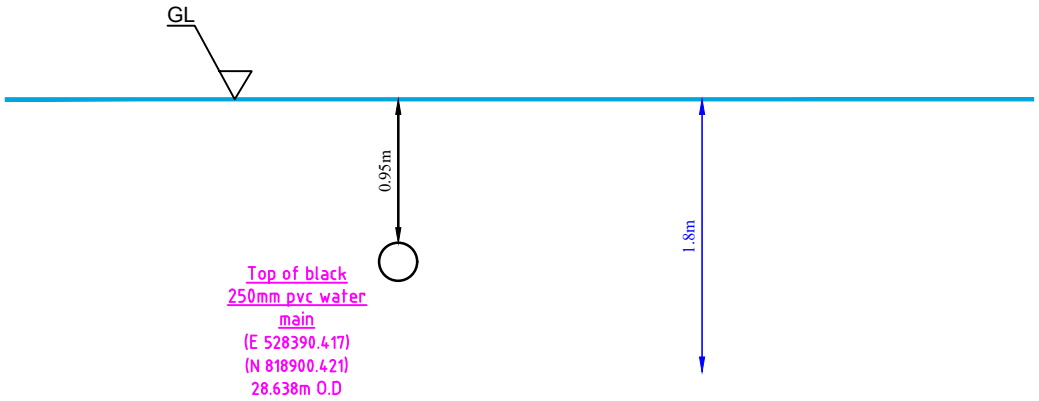
N

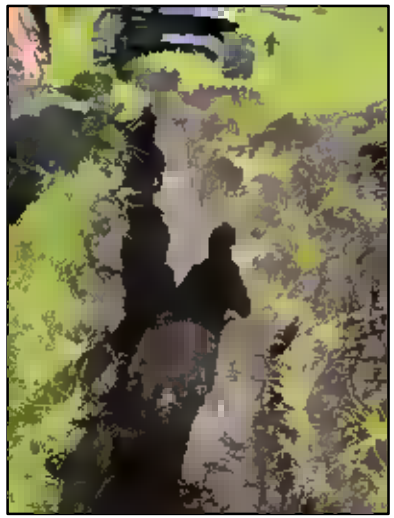


Plan



Section





Trench Dimensions:
Length of Trench: 6.80m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:
Backfill : Arisings

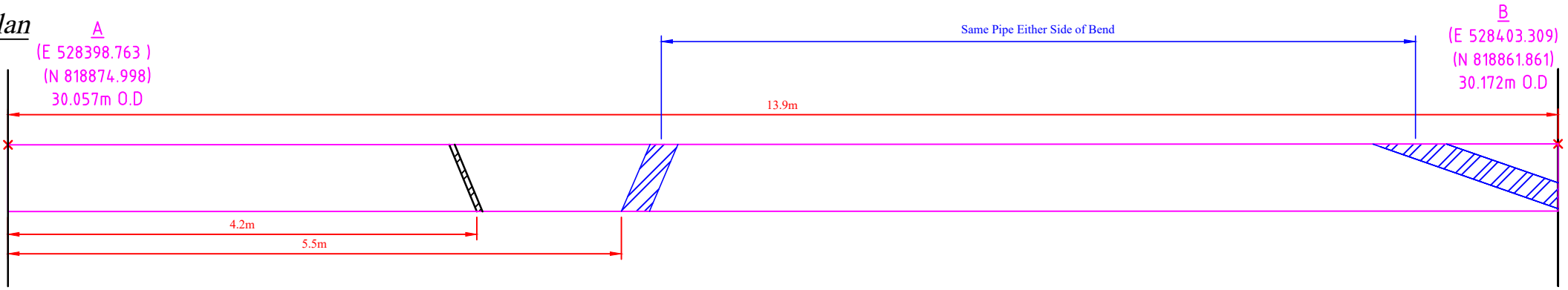
Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.50 : Soft dark brown PEAT/SILT
0.50-1.50 : Firm grey gravelly sandy SILT with cobbles

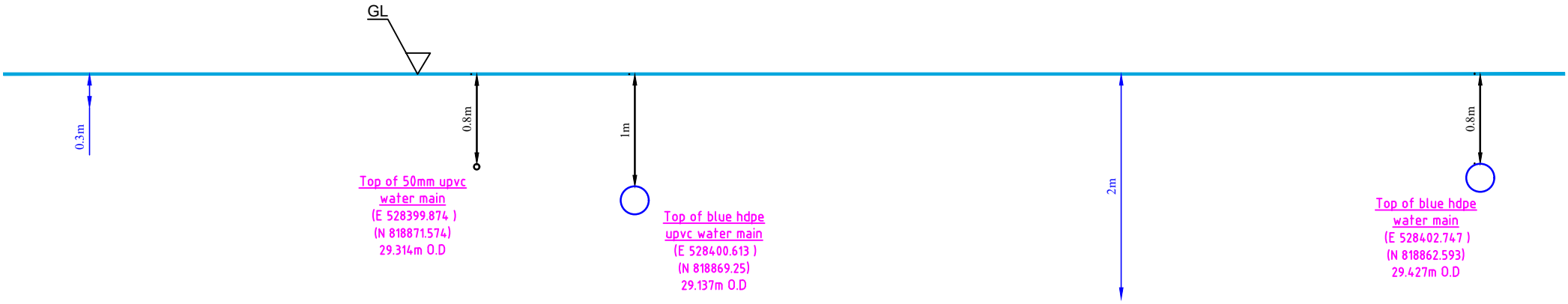
ST-WM65 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

N

Plan



Section



Trench Dimensions:

Length of Trench: 14.30m
Width of Trench: 0.80m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Bitumen and 804

Remarks:

Trench Stable
Low inflow of water @ 2.00m

Ground Conditions:

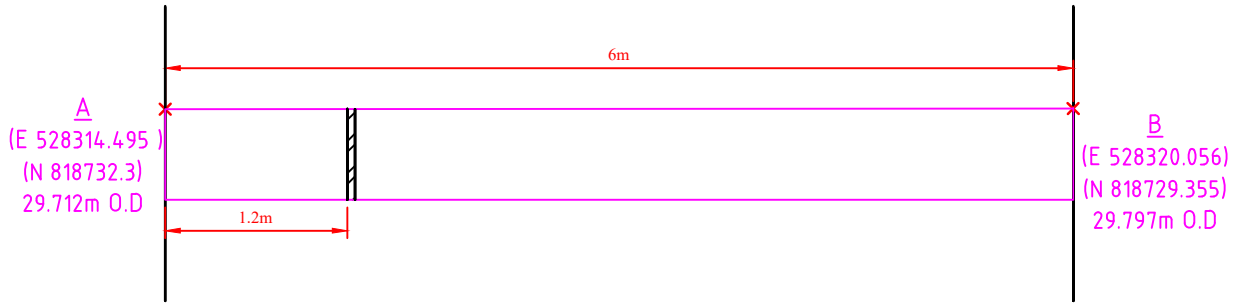
GL-0.07 : Bitumen
0.07-0.60 : Firm brown sandy SILT
0.60-2.00 : Soft light grey sandy SILT

ST-WM66 (Lough Talt) 06/06/2025 Scale : 1:50
Irish Drilling Limited

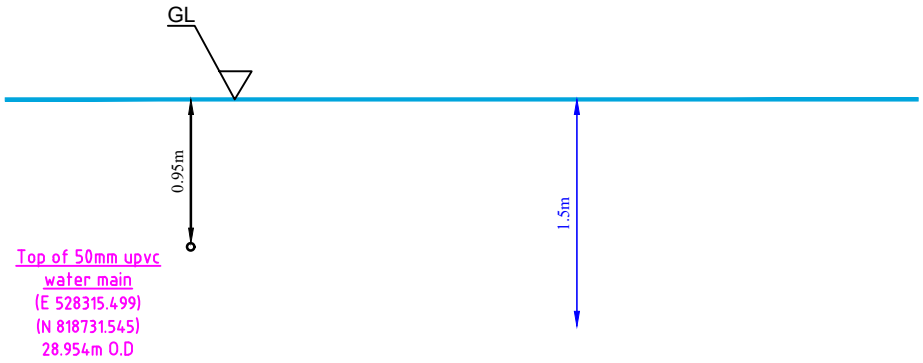
N



Plan



Section





Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.20-1.50m

Notes:

Backfill : Bitumen and 804

Remarks:

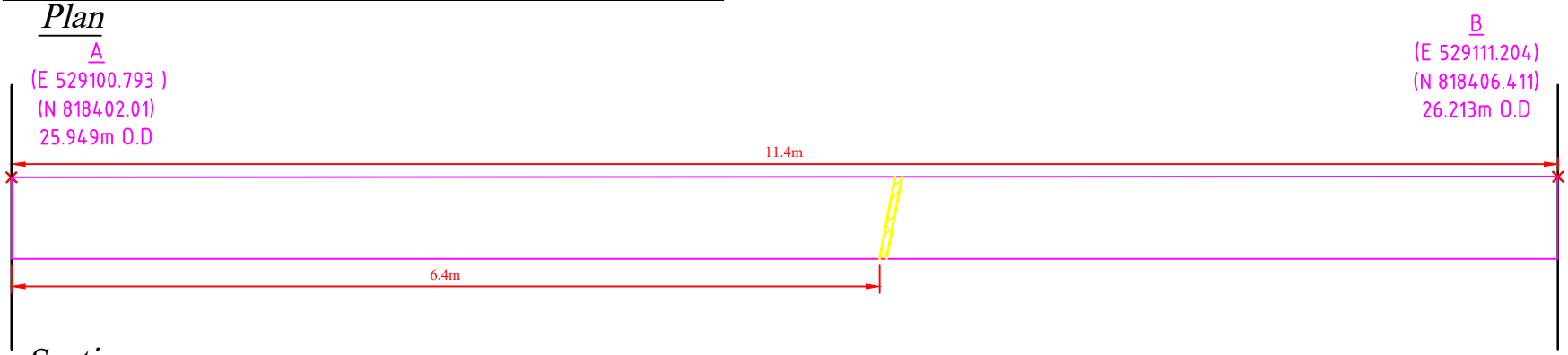
Trench Stable
Low inflow of water @ 1.50m

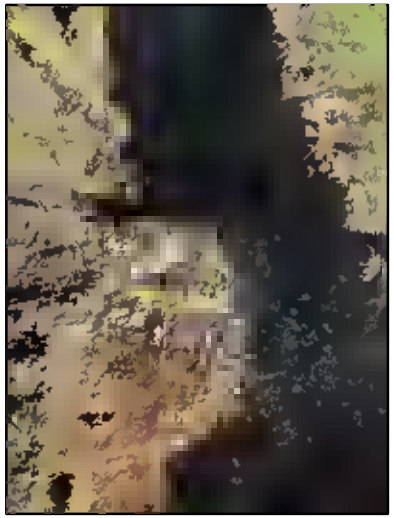
Ground Conditions:

GL-0.08 : Bitumen
0.08-0.15 : Tarmac
0.15-0.80 : Light brown sandy silty GRAVEL
0.80-1.50 : Light grey brown silty SAND

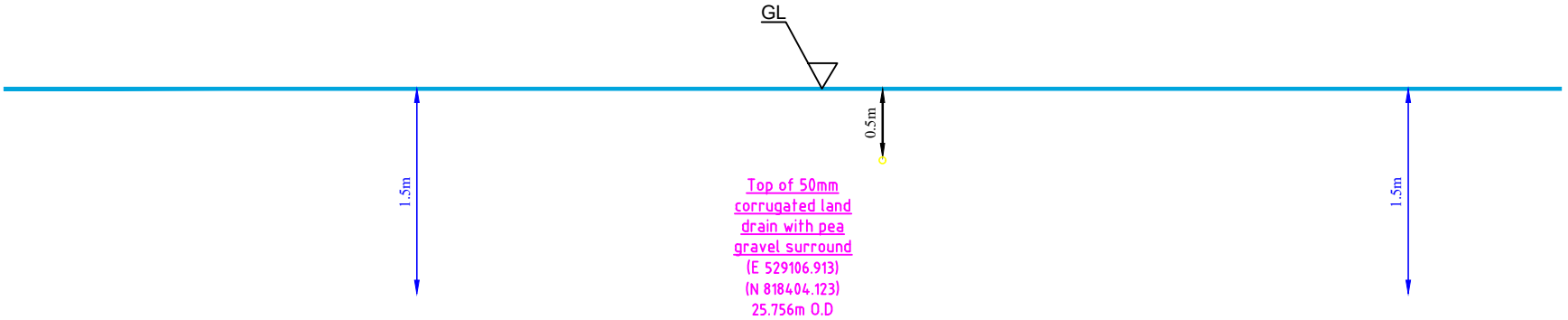
ST-WM67 (Lough Talt) 06/06/2025 Scale : 1:50
Irish Drilling Limited

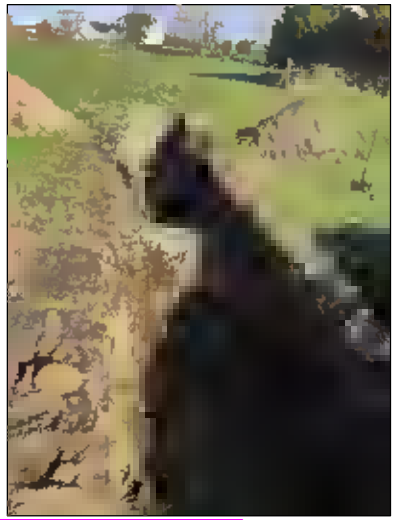
Plan





Section





Trench Dimensions:

Length of Trench: 11.4m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

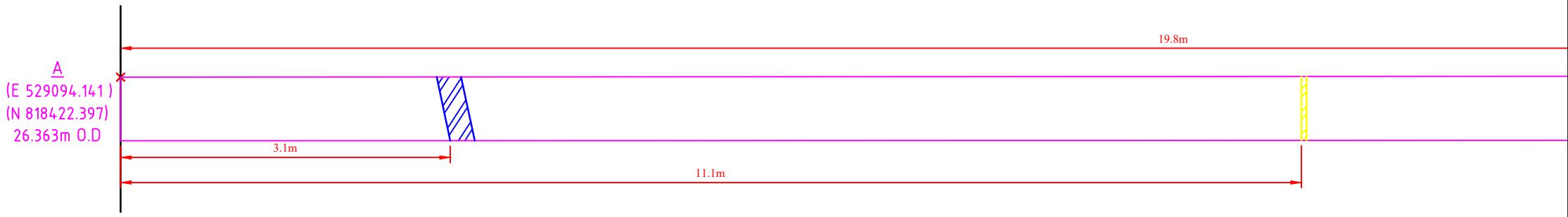
Ground Conditions:

GL-0.30 : Dark brown topsoil
0.30-1.50 : Firm brown very sandy SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone and granite

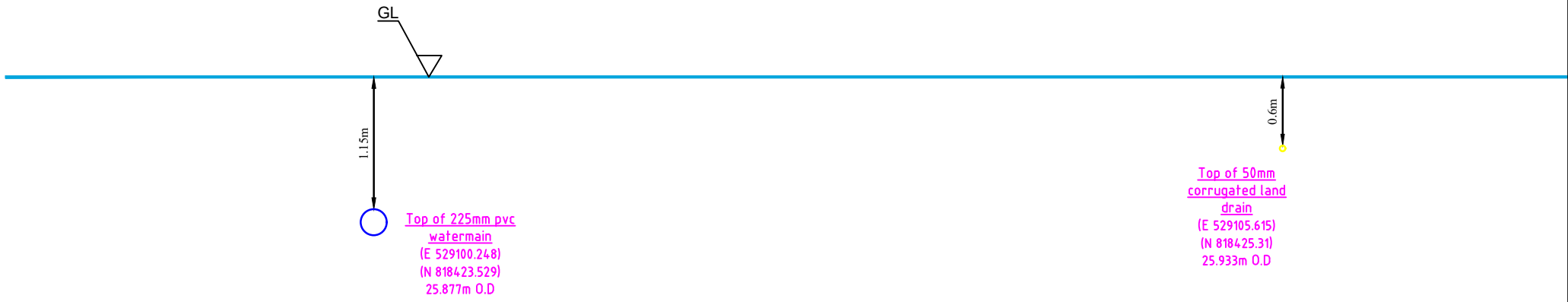
ST-WM67A (Lough Talt) 14/03/2025 Scale : 1:50
Irish Drilling Limited

N

Plan



Section



Trench Dimensions:

Length of Trench: 19.80m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

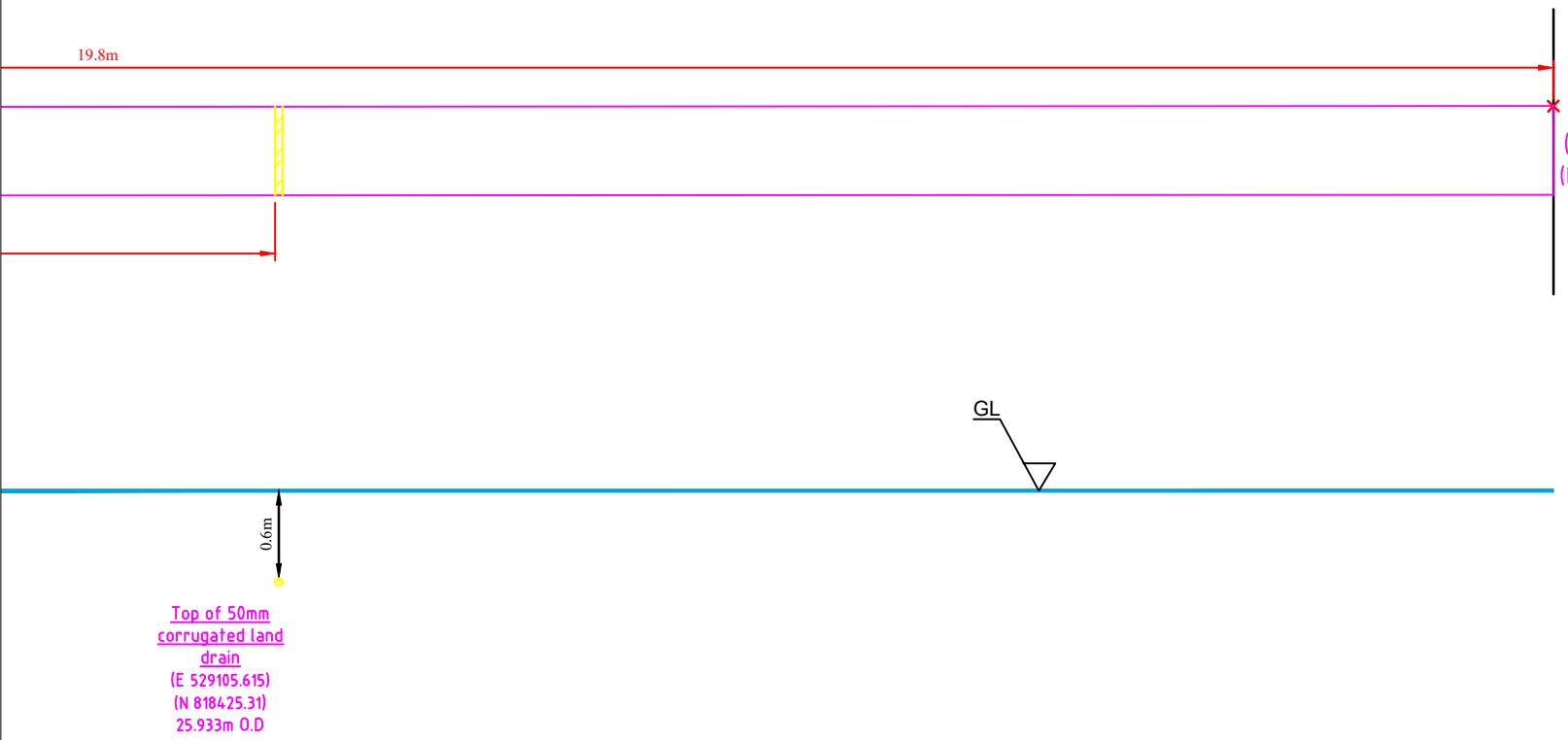
Remarks:

Trench Stable
Trench Dry

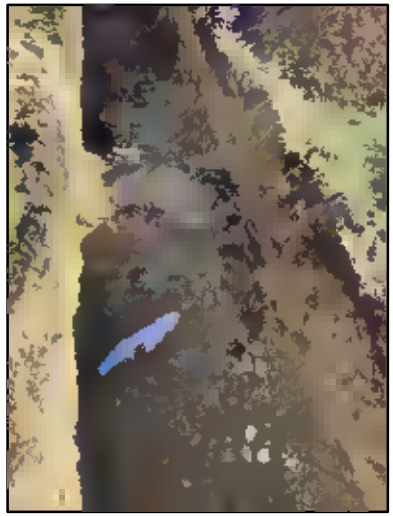
Ground Conditions:

GL-0.40 : Soft dark brown PEAT/SILT
0.40-1.60 : Brown gravelly silty SAND with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone and granite

ST-WM67A (Lough Talt) 14/03/2025 Scale : 1:50
Irish Drilling Limited







Ground Conditions:

GL-0.40 : Soft dark brown PEAT/SILT
0.40-1.60 : Brown gravelly silty SAND with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone and granite

ST-WM68 (Lough Talt) 12/03/2025 Scale : 1:50
Irish Drilling Limited

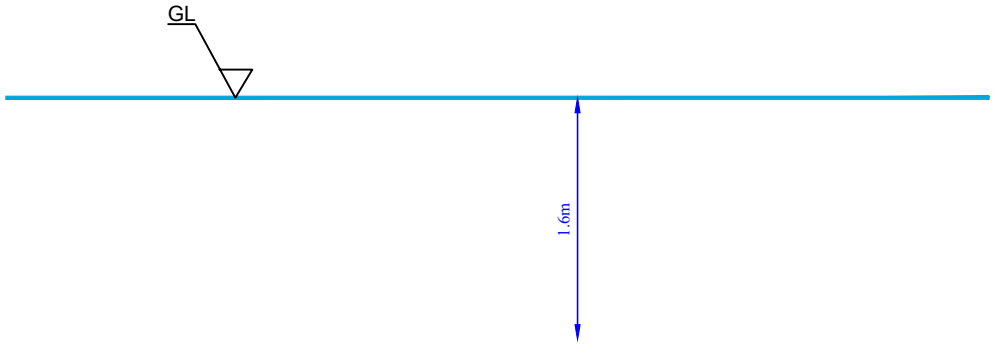
N



Plan



Section





Trench Dimensions:

Length of Trench: 6.50m
Width of Trench: 1.00m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

Ground Conditions:

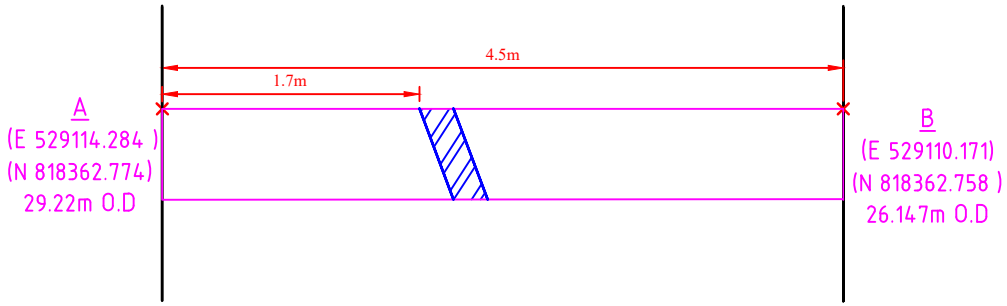
GL-0.90 : Soft brown peaty SILT
0.90-1.60 : Firm brown gravelly silty SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone and granite

ST-WM68A (Lough Talt) 12/03/2025 Scale : 1:50
Irish Drilling Limited

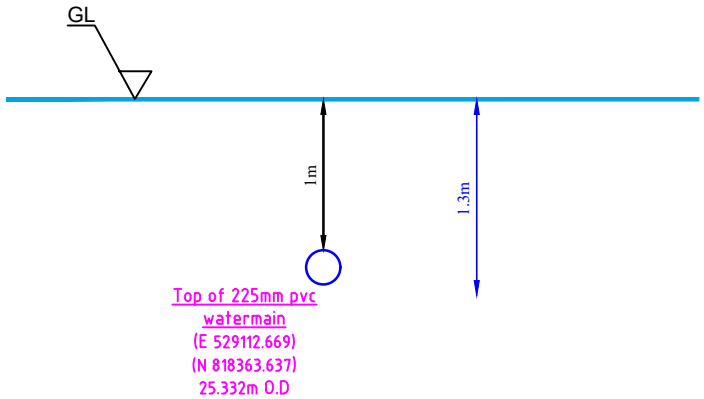
N



Plan



Section





Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

Remarks:

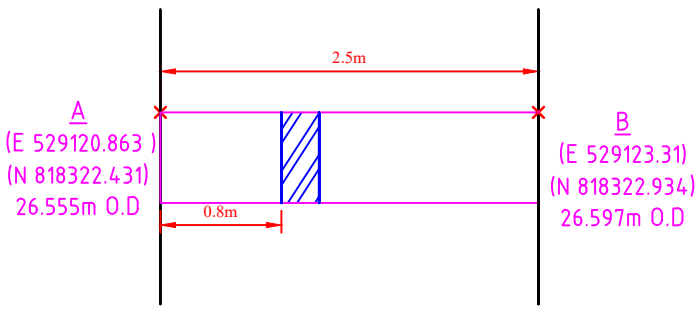
Trench Stable
Trench Dry

Ground Conditions:

GL-0.30 : Soft dark brown topsoil
0.30-1.30 : Stiff brown gravelly silty SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone and granite

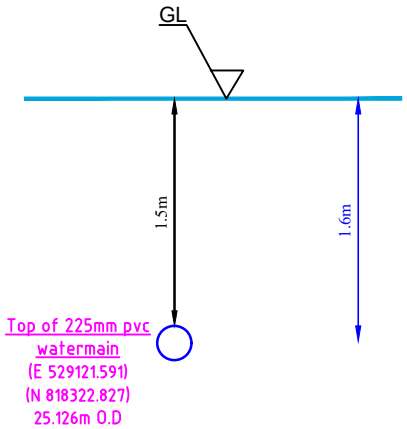
ST-WM69 (Lough Talt) 06/06/2025 Scale : 1:50
Irish Drilling Limited

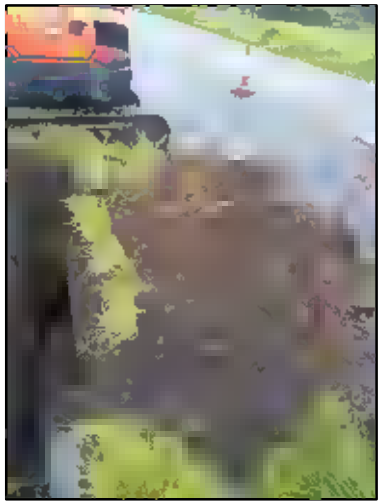
Plan





Section





Trench Dimensions:

Length of Trench: 2.50m
Width of Trench: 0.40m
Depth of Trench: 1.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-0.60m

Notes:

Backfill : Arisings+804

Remarks:

Trench Stable
Large inflow of water @ 1.60m rise up to 1.20m in 20mins

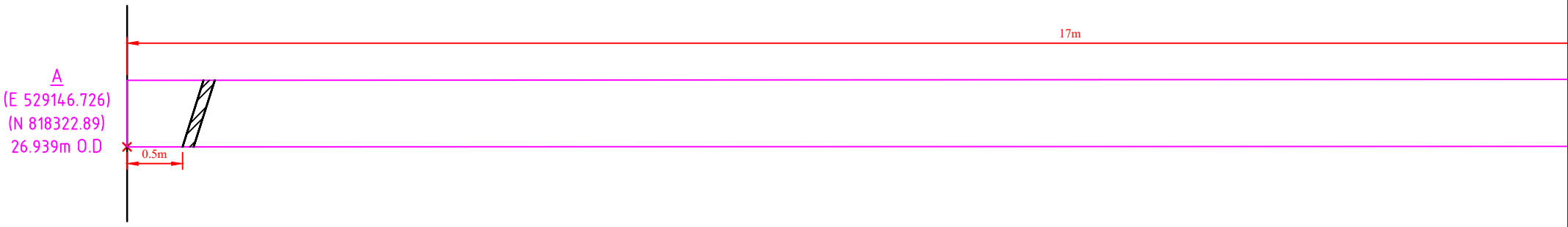
Ground Conditions:

GL-0.40 : (Made Ground) Grass over a firm dark brown clayey SILT
0.40-1.10 : (Made Ground) Dark brown PEAT

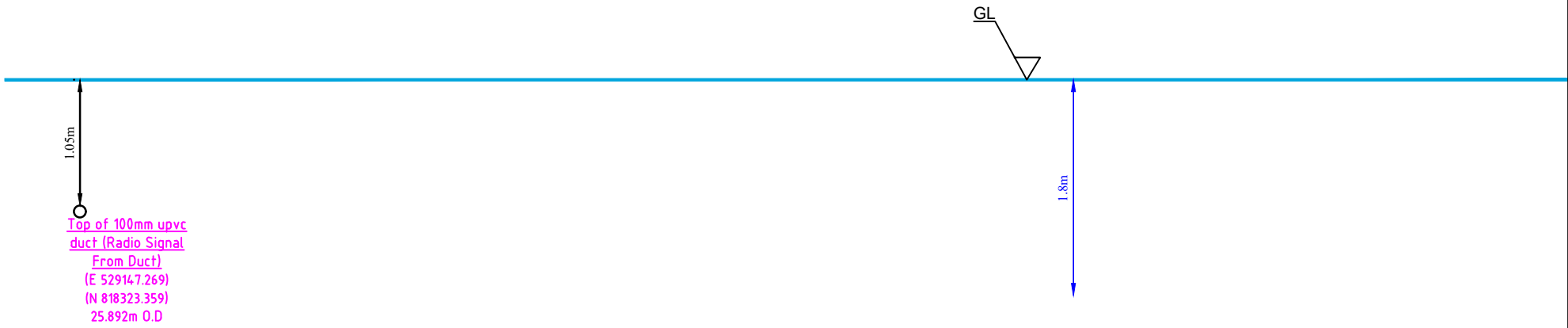
ST-WM70 (Lough Talt) 05/06/2025 Scale : 1:50
Irish Drilling Limited

N

Plan



Section



Trench Dimensions:

Length of Trench: 17m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.20-1.30m

Notes:

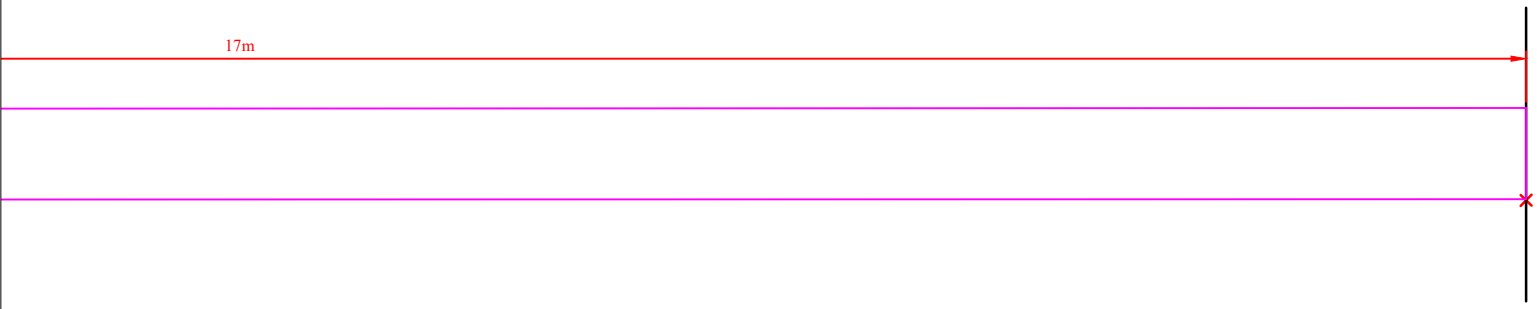
Backfill : Bitumen and 804

Remarks:

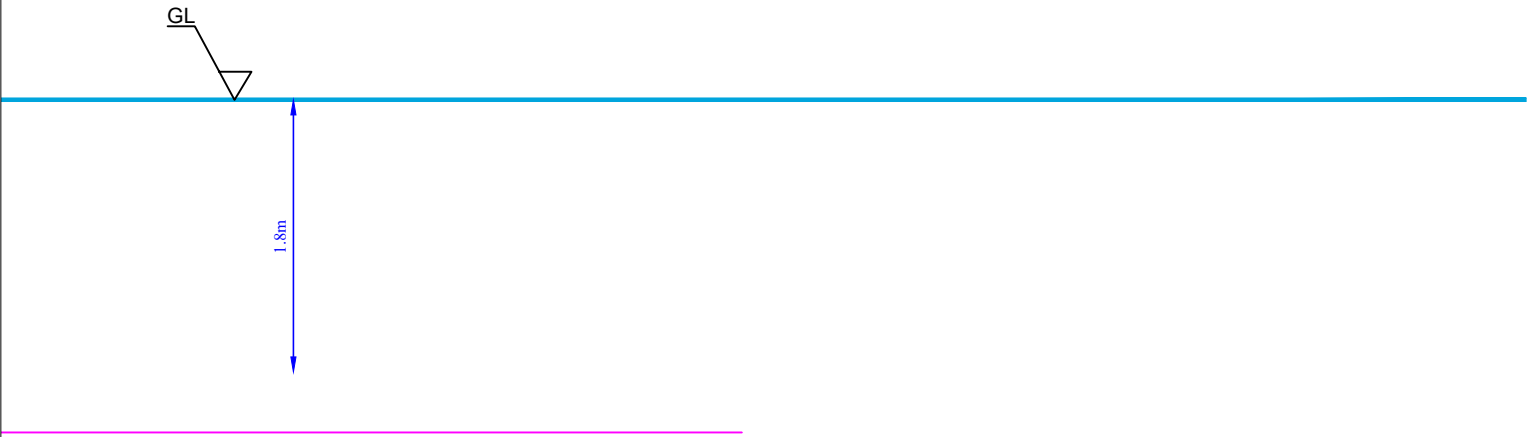
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Bitumen
0.09-0.20 : Tarmac
0.20-0.50 : (Made Ground) Grey slightly silty sandy GRAVEL
0.50-0.90 : (Made Ground) Brown sandy GRAVEL
0.90-1.40 : Dark brown PEAT
1.40-1.80 : Brown sandy GRAVEL









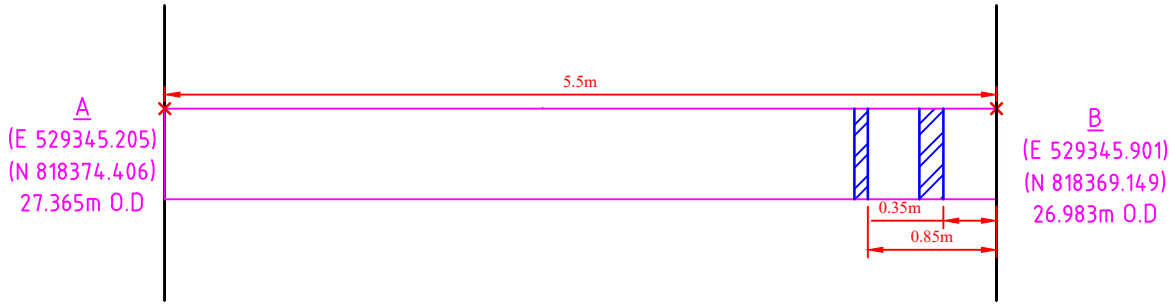
4

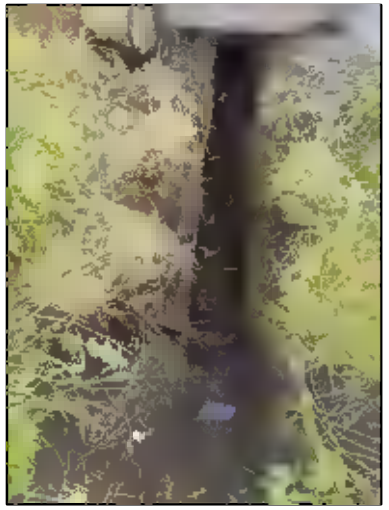
Ground Conditions:

GL-0.09 : Bitumen
0.09-0.20 : Tarmac
0.20-0.50 : (Made Ground) Grey slightly silty sandy GRAVEL
0.50-0.90 : (Made Ground) Brown sandy GRAVEL
0.90-1.40 : Dark brown PEAT
1.40-1.80 : Brown sandy GRAVEL

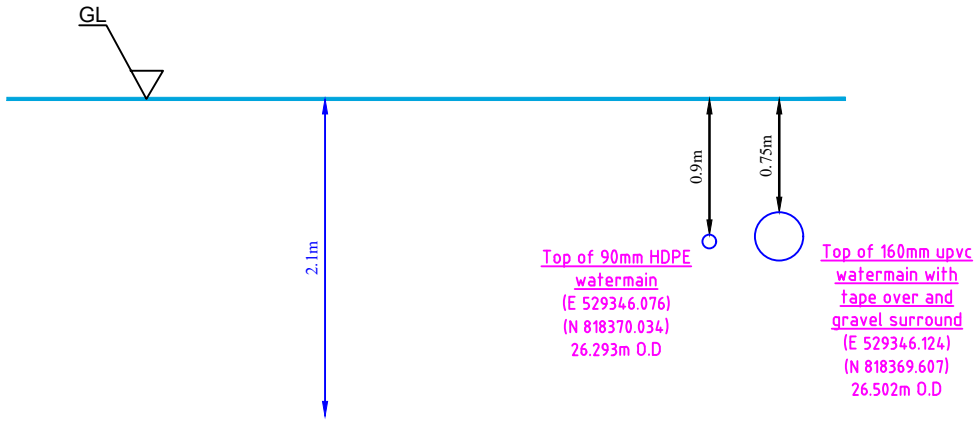
ST-WM73 (Lough Talt) 09/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.00m
Depth of Trench: 2.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.60-1.70m

Notes:

Backfill : 804+Bitumen

Remarks:

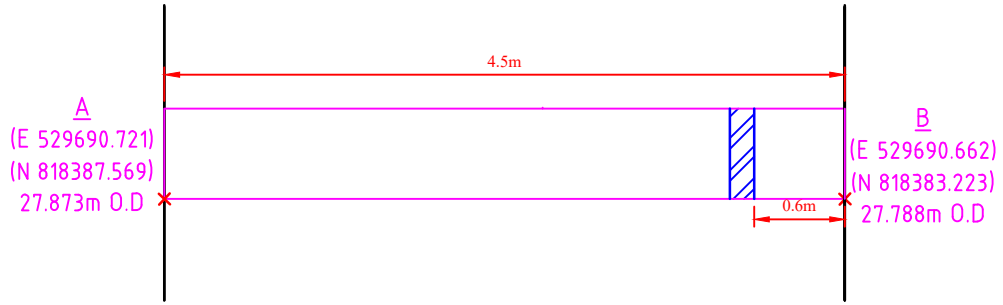
Trench Stable
Trench Dry

Ground Conditions:

GL-0.08 : Bitumen
0.08-0.30 : Tarmac
0.30-0.50 : Brown SAND/GRAVEL
0.50-1.10 : Dark brown PEAT
1.10-2.10 : Orangr brown sandy GRAVEL

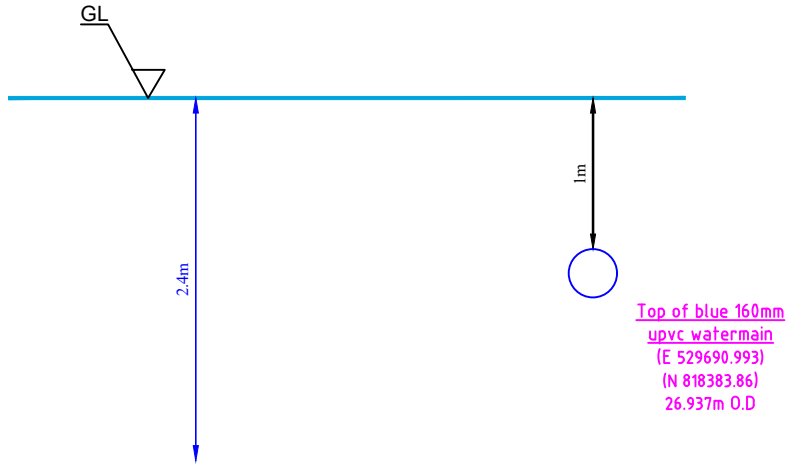
ST-WM78 (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

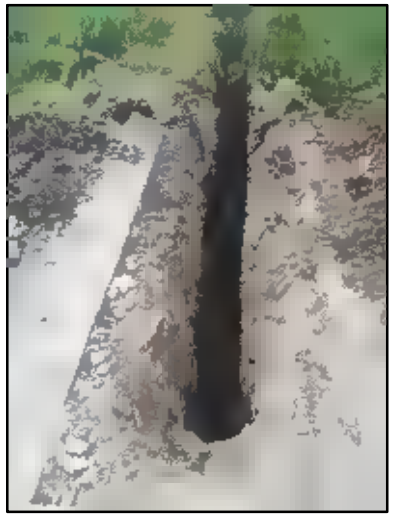
Plan





Section





Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 1.00m
Depth of Trench: 2.40m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.50-1.60m

Notes:

Backfill : 804+Bitumen

Remarks:

Trench Stable
Trench Dry

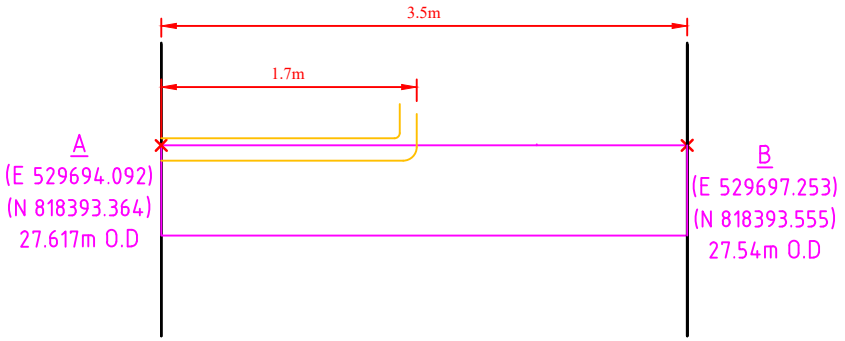
Did not uncover 75mm watermain possible beside 160mm main

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.15 : Tarmac
0.15-0.35 : Brown grey SAND/GRAVEL
0.35-0.40 : Tarmac
0.40-0.50 : Brown grey SAND/GRAVEL
0.50-1.00: Dark brown peaty SILT
1.00-2.40 : Orange brown slightly clayey gravelly SAND

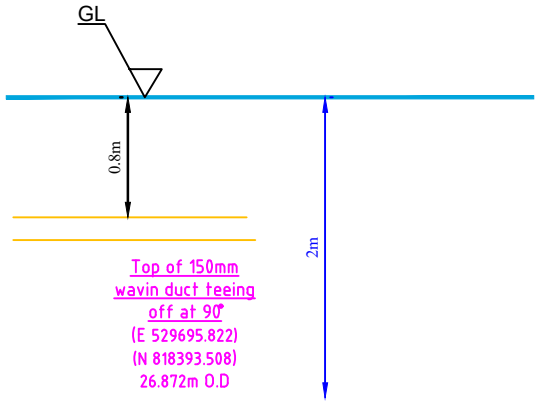
ST-WM78A (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.50m
Width of Trench: 0.50m
Depth of Trench: 2.00m

Logged by: PC

Notes:

Backfill : 804

Remarks:

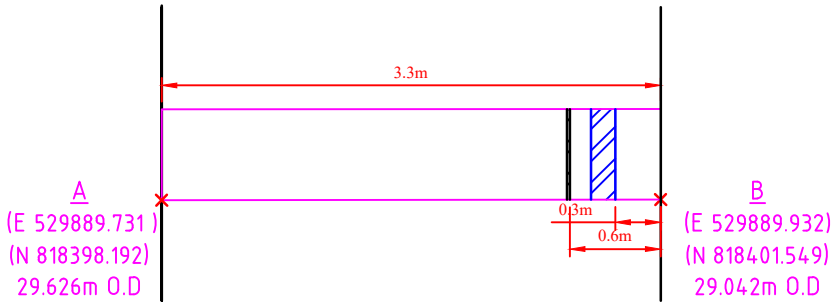
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.90 : Brown SAND/GRAVEL
0.90-2.00 : Orange brown SAND

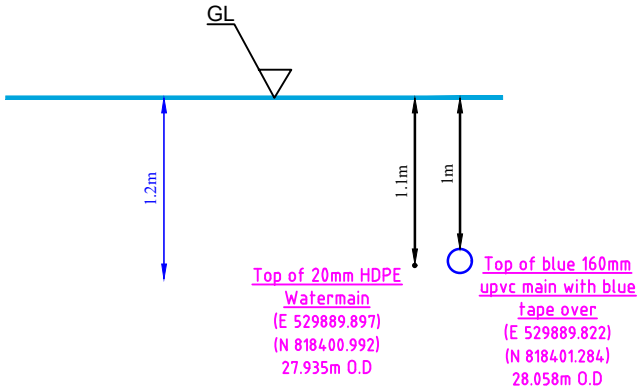
ST-WM83 (Lough Talt) 09/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.30m
Width of Trench: 0.60m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.80-0.90m

Notes:

Backfill : 804

Remarks:

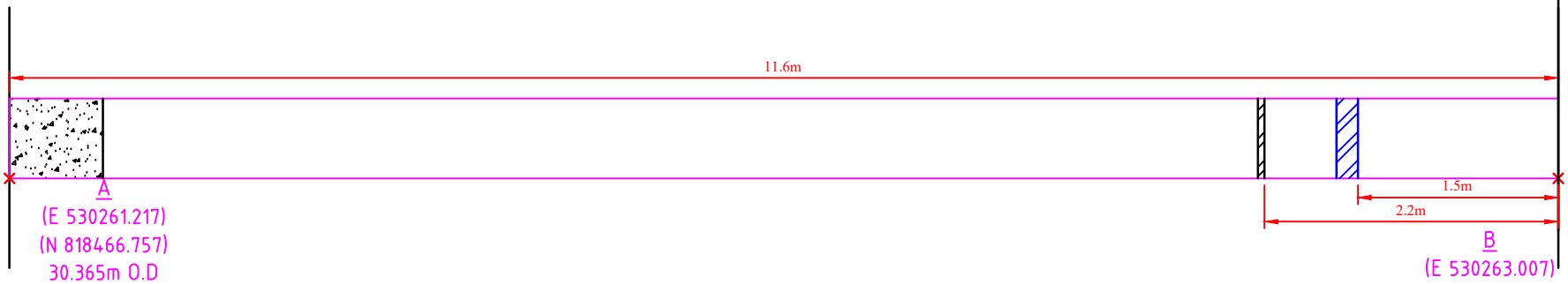
Trench Stable
Trench Dry

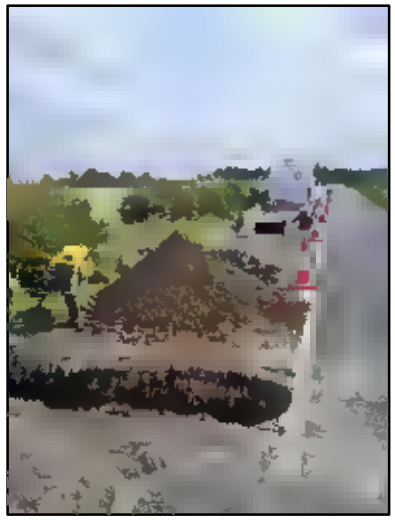
Ground Conditions:

GL-1.20 : Grass over a firm dark brown clayey sandy SILT

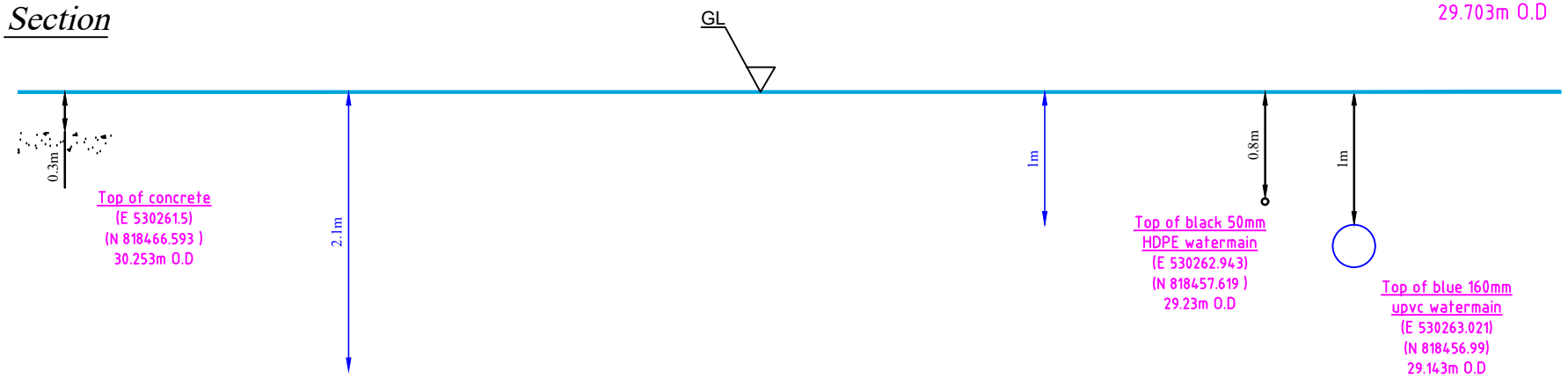
ST-WM87 (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 3.50m
Width of Trench: 0.50m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.40-1.50m

Notes:

Backfill : 804+Bitumen

Remarks:

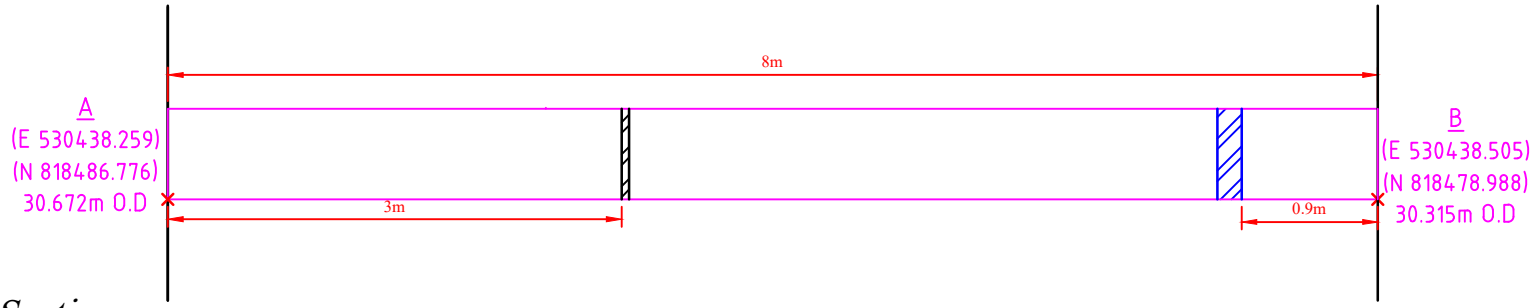
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.35 : 804
0.35-0.70 : Dark brown peaty SILT
0.70-2.10 : Dark brown very gravelly SAND
Sand content is fine to coarse
Gravel content is fine to coarse
sub-rounded to rounded

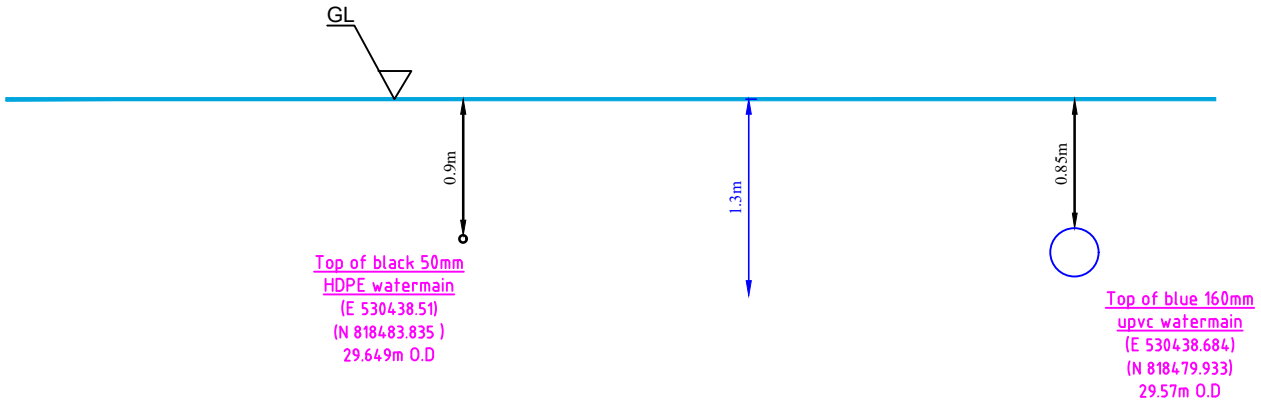
ST-WM88 (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

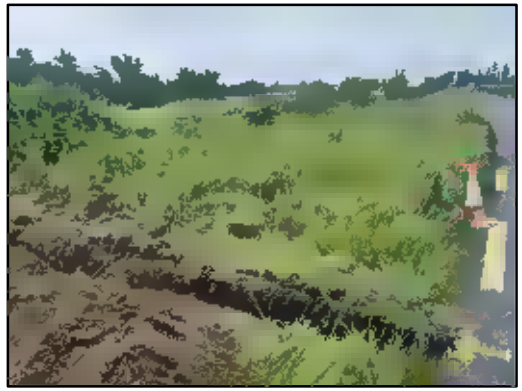
Plan





Section





Trench Dimensions:

Length of Trench: 1.30m
Width of Trench: 0.50m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00-1.10m

Notes:

Backfill : 804+Arisings

Remarks:

Trench Stable
Trench Dry

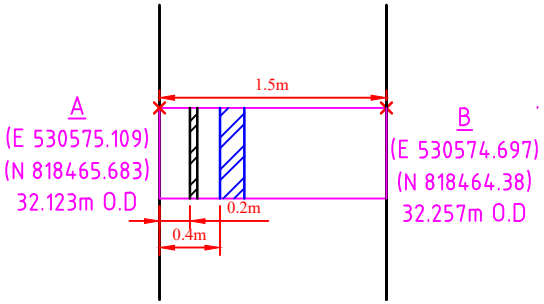
Ground Conditions:

GL-0.40 : Grass over a firm brown slightly gravelly clayey SILT
0.40-1.30 : Firm brown slightly gravelly sandy SILT

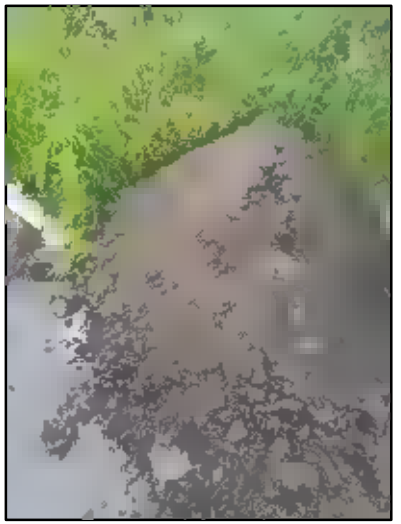
ST-WM89 (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

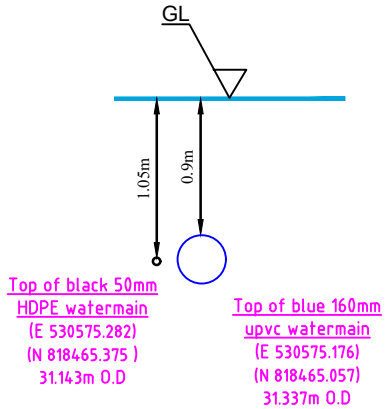


Plan



Section





Trench Dimensions:

Length of Trench: 1.50m
Width of Trench: 0.50m
Depth of Trench: 1.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.80-0.90m

Notes:

Backfill : 804 and Arisings

Remarks:

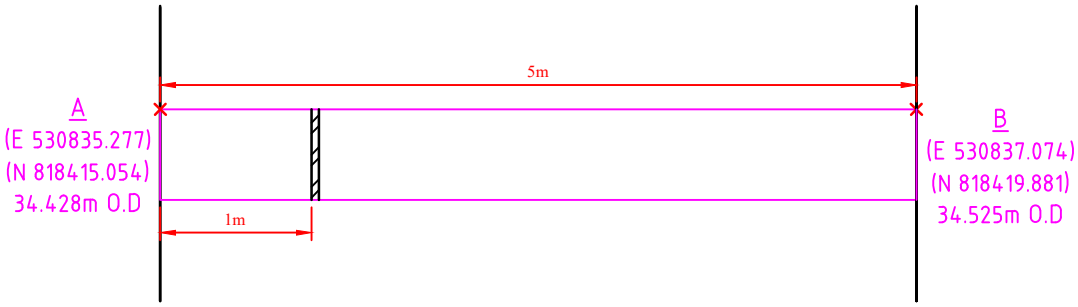
Trench Stable
Trench Dry

Ground Conditions:

GL-0.30 : Grass over a firm brown clayey SILT
0.30-1.10 : Dark brown peaty SILT

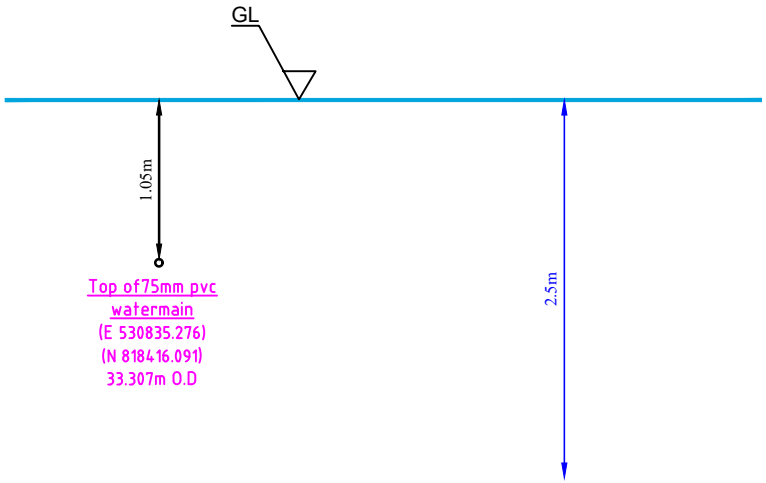
ST-WM91 (Lough Talt) 11/03/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.00m
Depth of Trench: 2.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m
Bulk Bag Sample @ 2.00-2.50m

Notes:

Backfill : Arisings

Remarks:

Trench Side walls unstable from 1.50m below ground level to base of pit

Trench Dry

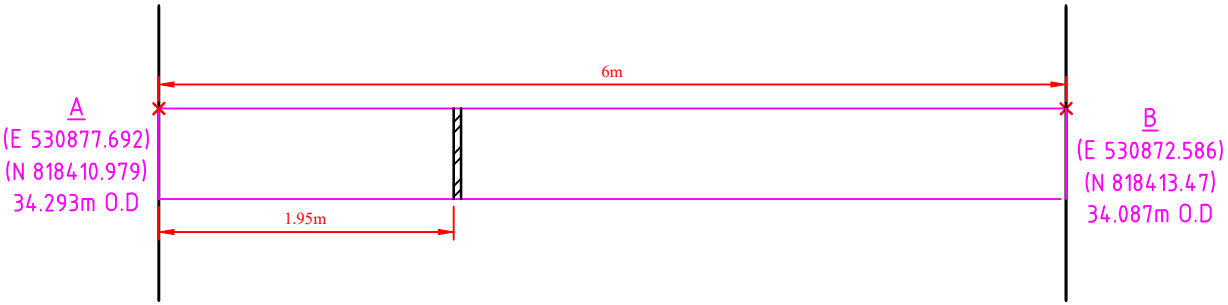
Ground Conditions:

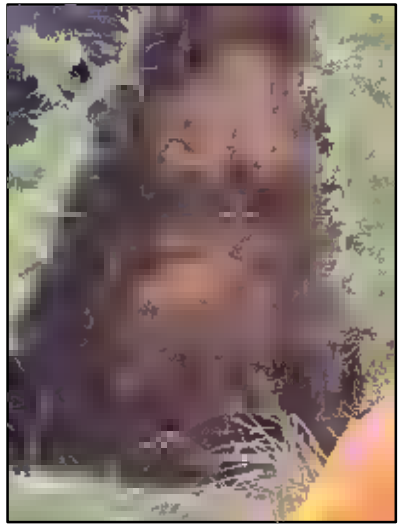
GL-0.35 : Dark brown topsoil
0.35-1.30 : Brown firm gravelly sandy SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone
1.30-2.50 : Brown gravelly SAND with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone

*ST-WM92 (*Lough Talt*) 11/03/2025 Scale : 1:50*
Irish Drilling Limited

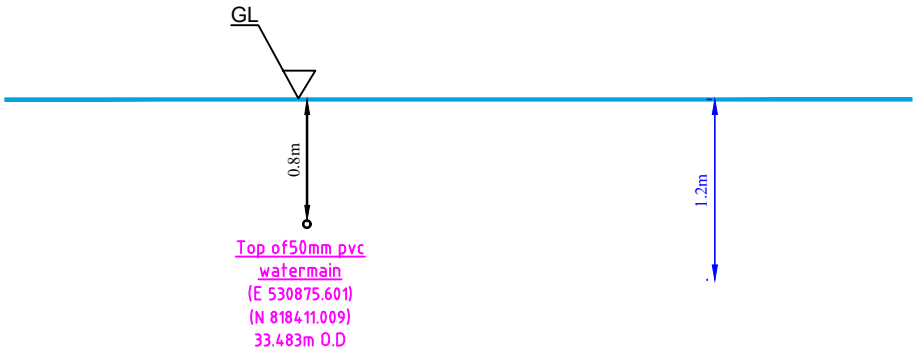
N

Plan





Section





Trench Dimensions:

Length of Trench: 6.00m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

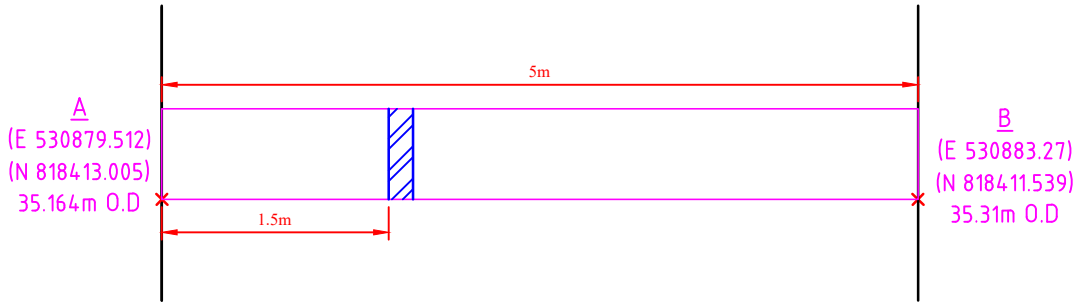
Ground Conditions:

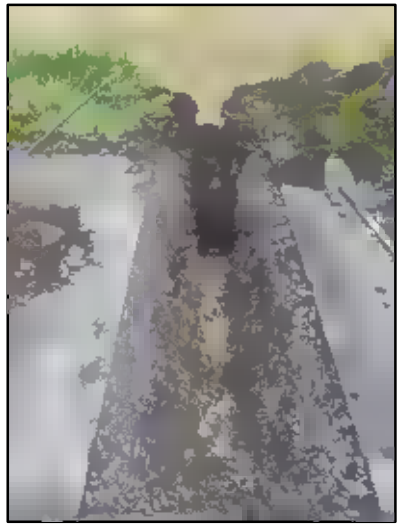
GL-0.30 : Dark brown topsoil
0.30-1.20 : Firm brown gravelly sandy SILT with a medium quantity of cobbles
Cobbles are sub-angular to sub-rounded of siltstone

ST-WM92A (Lough Talt) 11/03/2025 Scale : 1:50
Irish Drilling Limited

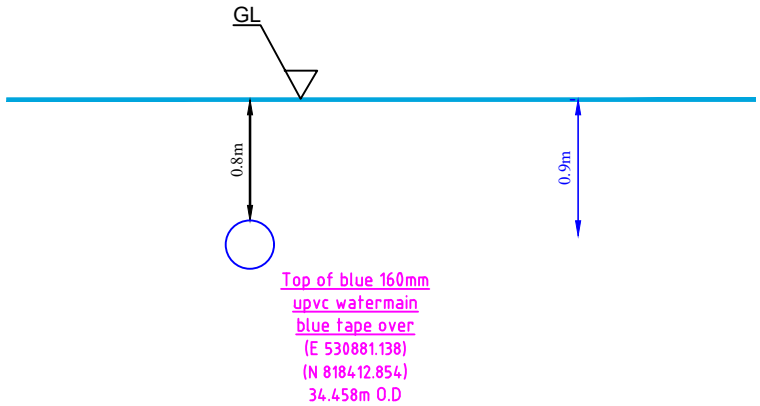
N

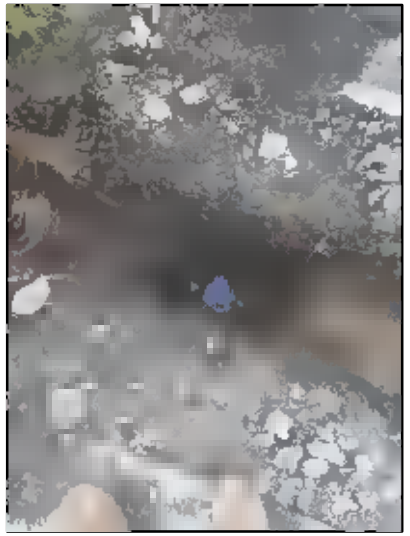
Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 0.90m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.70-0.80m

Notes:

Backfill : Bitumen+804

Remarks:

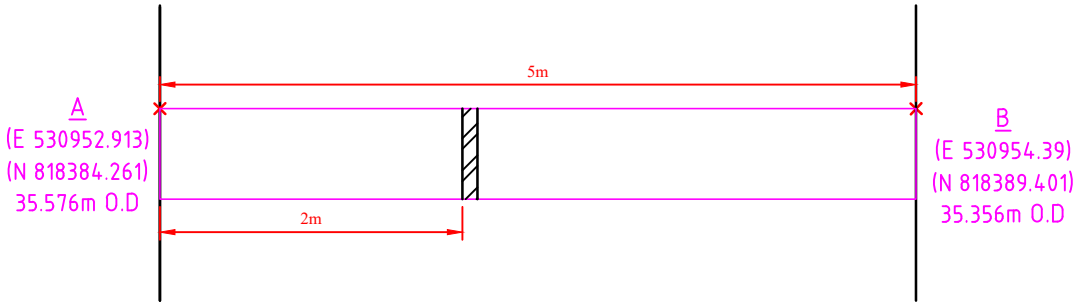
Trench Stable
Trench Dry

Ground Conditions:

GL-0.05 : Bitumen
0.05-0.35 : 804
0.35-0.40 : Tarmac
0.40-0.90 : Brown gravelly silty SAND

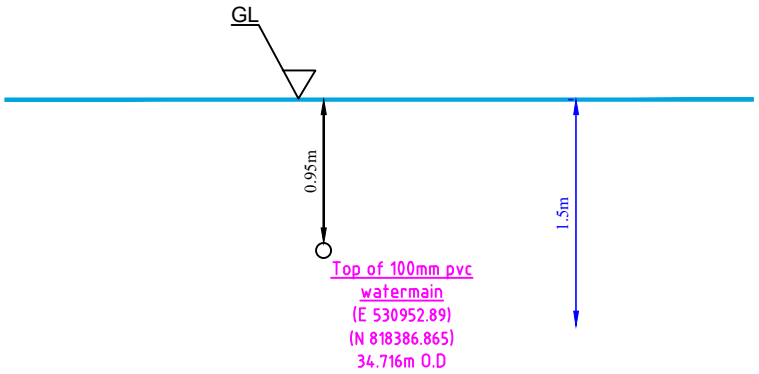
ST-WM93 (Lough Talt) 10/03/2025 Scale : 1:50
Irish Drilling Limited

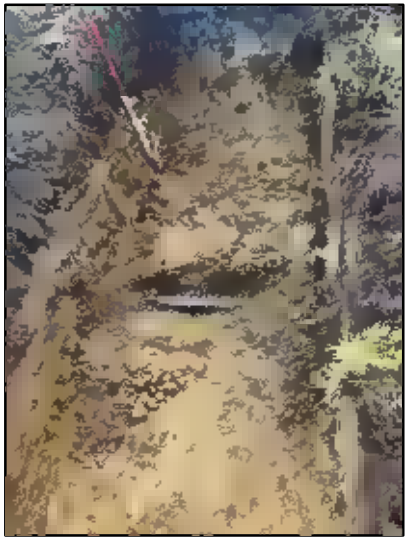
Plan





Section





Trench Dimensions:

Length of Trench: 5.00m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.50-1.00m

Notes:

Backfill : Arisings

Remarks:

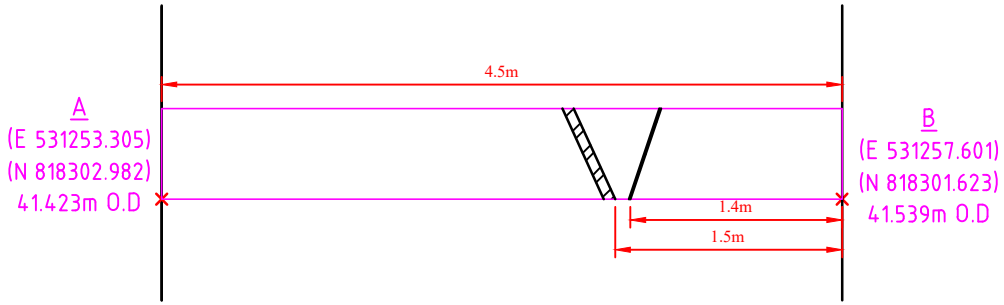
Trench Stable
Trench Dry

Ground Conditions:

GL-0.50: Soft dark brown PEAT topsoil
0.50-1.50 : Firm brown gravelly sandy SILT with a medium cobble content Cobbles are sub-angular to sub-rounded of siltstone

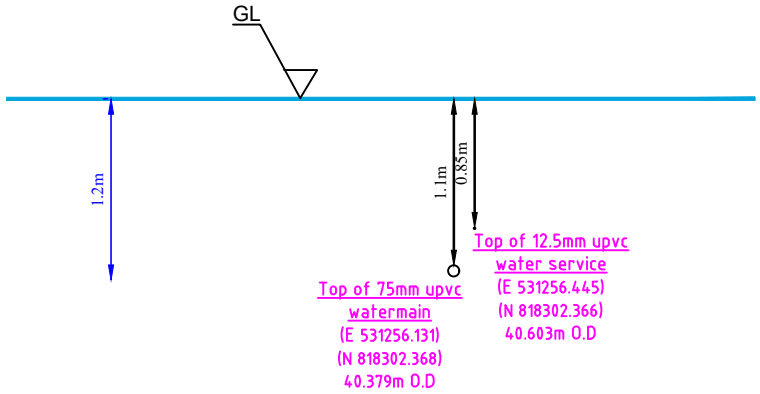
ST-WM96 (Lough Talt) 10/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 4.50m
Width of Trench: 0.50m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.60-0.70m

Notes:

Backfill : Arisings

Remarks:

Trench Stable
Trench Dry

Ground Conditions:

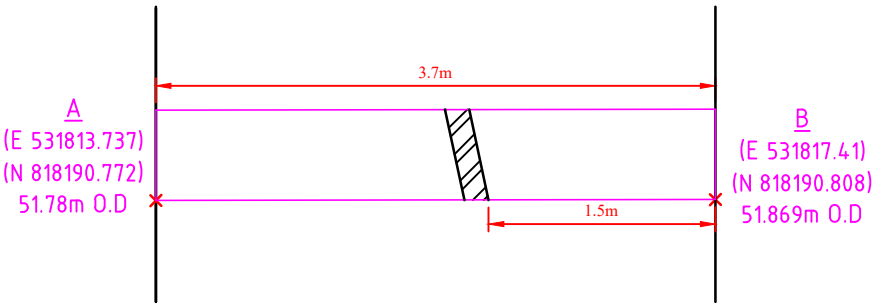
GL-0.40: Grass over a firm dark brown clayey SILT
0.40-1.20 : Brown gravelly silty SAND
Sand content is fine to coarse

ST-WM99 (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

N

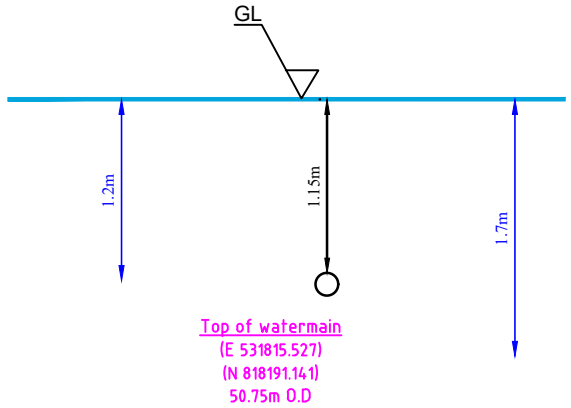


Plan





Section



Trench Dimensions:

Length of Trench: 3.70m
Width of Trench: 0.70m
Depth of Trench: 1.70m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.60-1.70m

Notes:

Backfill : Bitumen and 804

Remarks:

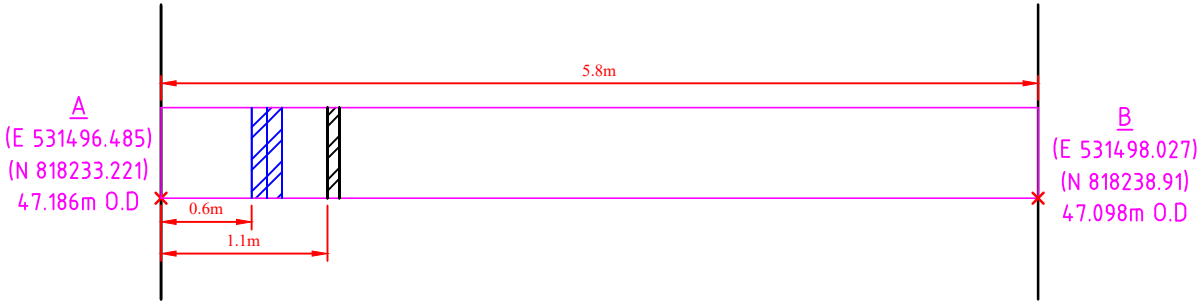
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Bitumen
0.09-0.15 : Tarmac
0.15-1.70 : Orange brown silty sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse
sub-rounded to rounded

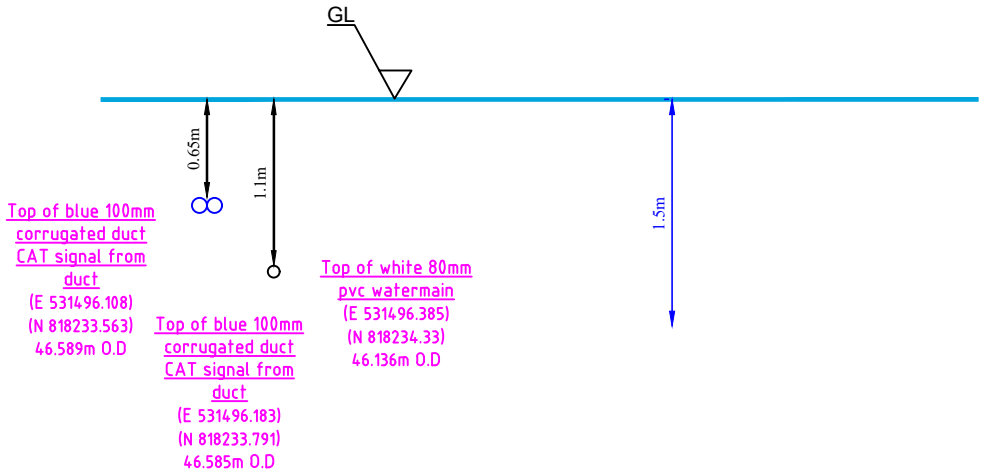
ST-WM100 (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.80m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.80-0.90m

Notes:

Backfill : Bitumen and 804

Remarks:

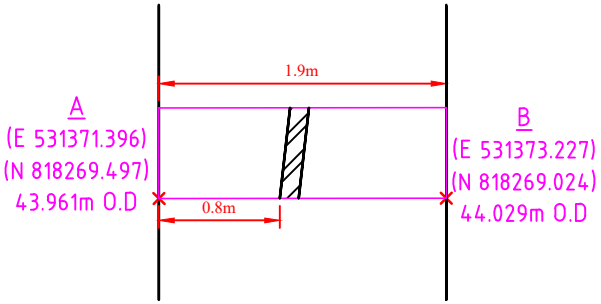
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Bitumen
0.09-0.24 : Tarmac
0.24-1.50 : Orange brown very sandy GRAVEL with a medium quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse sub-rounded to rounded
Cobbles are sub-rounded to rounded

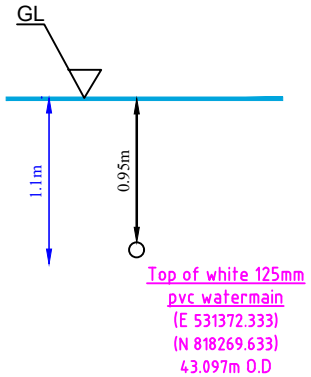
ST-WM100A (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

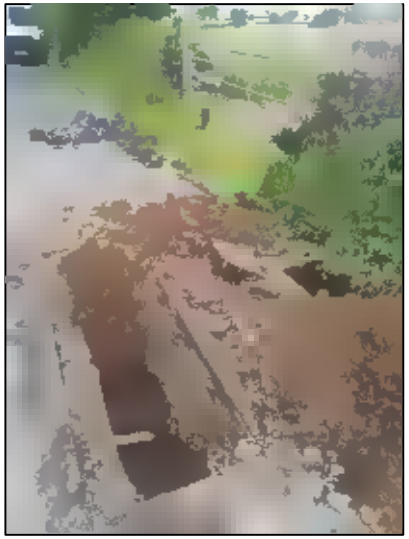
Plan





Section





Trench Dimensions:

Length of Trench: 1.90m
Width of Trench: 0.70m
Depth of Trench: 1.10m

Logged by: DOR

Samples:
Bulk Bag Sample @ 1.00-1.10m

Notes:

Backfill : Bitumen and 804

Remarks:

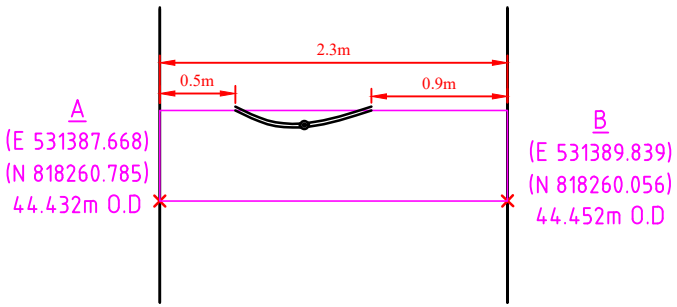
Trench Stable
Trench Dry

Ground Conditions:

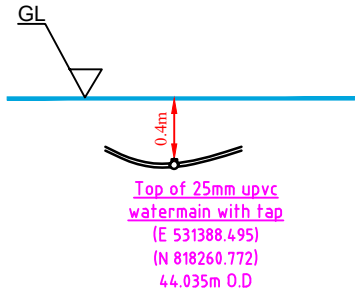
GL-0.14 : Bitumen
0.14-0.24 : Brown sandy GRAVEL
0.24-0.29 : Tarmac
0.24-1.10: Brown SAND/GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse
sub-angular to rounded

ST-WM100B (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section





Trench Dimensions:

Length of Trench: 2.30m
Width of Trench: 0.40m
Depth of Trench: 0.50m

Logged by: PC

Notes:

Backfill : 804

Remarks:

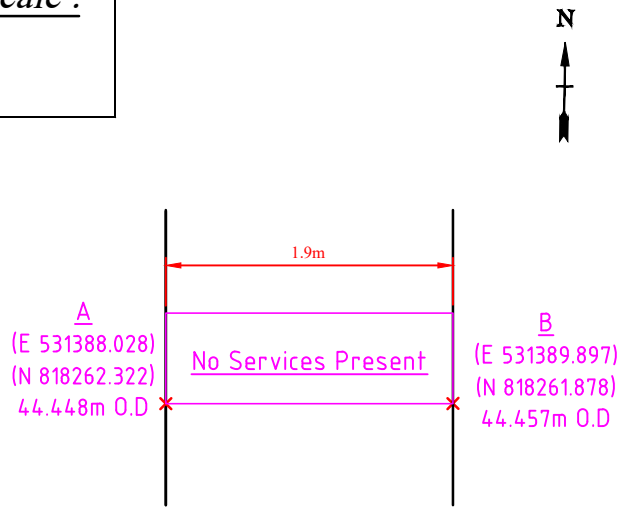
Trench Stable
Trench Dry

Ground Conditions:

GL-0.14 : Brown sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse
sub-angular to rounded

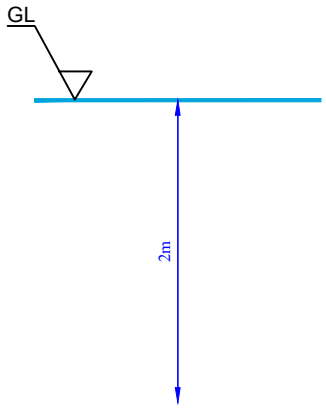
ST-WM100C (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section



Trench Dimensions:
Length of Trench: 1.90m
Width of Trench: 0.70m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.50-1.10m

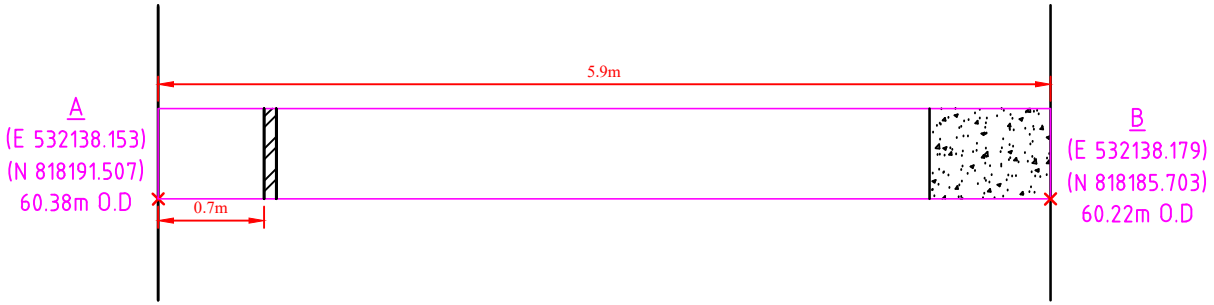
Notes:
Backfill : Bitumen and 804

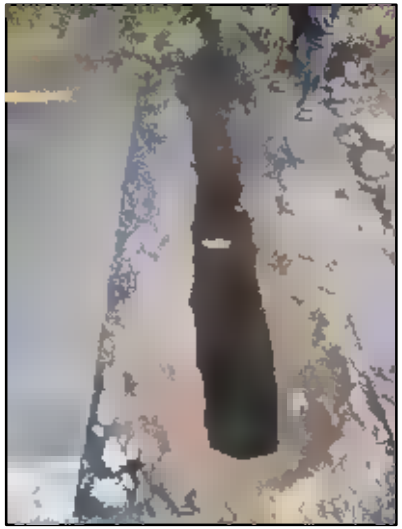
Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.07 : Bitumen
0.07-0.20 : Tarmac
0.20-2.00: Orange brown sandy GRAVEL with a low boulder content
Sand content is fine to coarse
Gravel content is fine to coarse sub-rounded to rounded
Boulder are rounded ranging up to 0.55

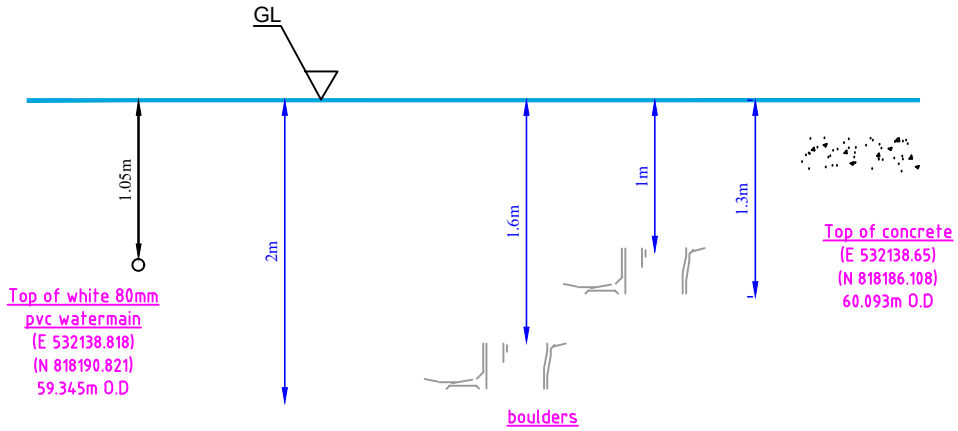
ST-WM102 (Lough Talt) 12/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.90m
Width of Trench: 1.00m
Depth of Trench: 2.00m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.40-1.50m

Notes:

Backfill : Bitumen and 804

Remarks:

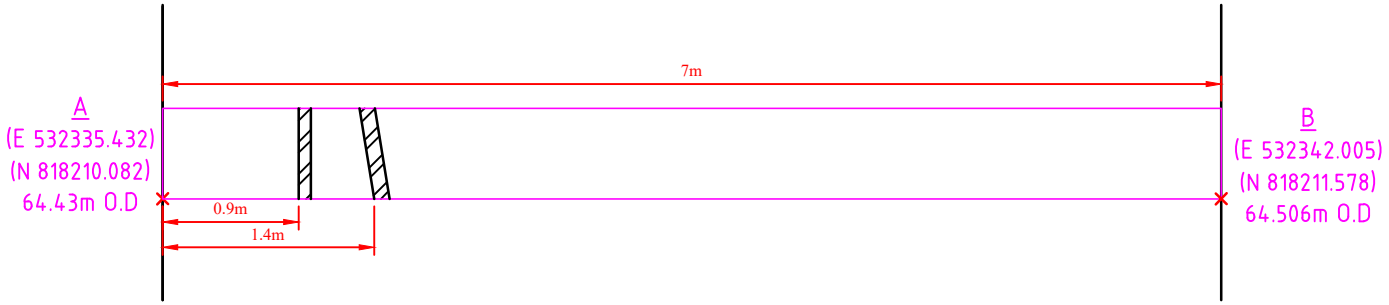
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Bitumen
0.09-0.20 : Tarmac
0.20-2.00 : Light brown silty sandy GRAVEL with a medium quantity of cobbles and boulders
Sand content is fine to coarse
Gravel content is fine to coarse sub-rounded to rounded
Cobbles are sub-angular to sub-rounded
Boulders are sub-angular to sub-rounded

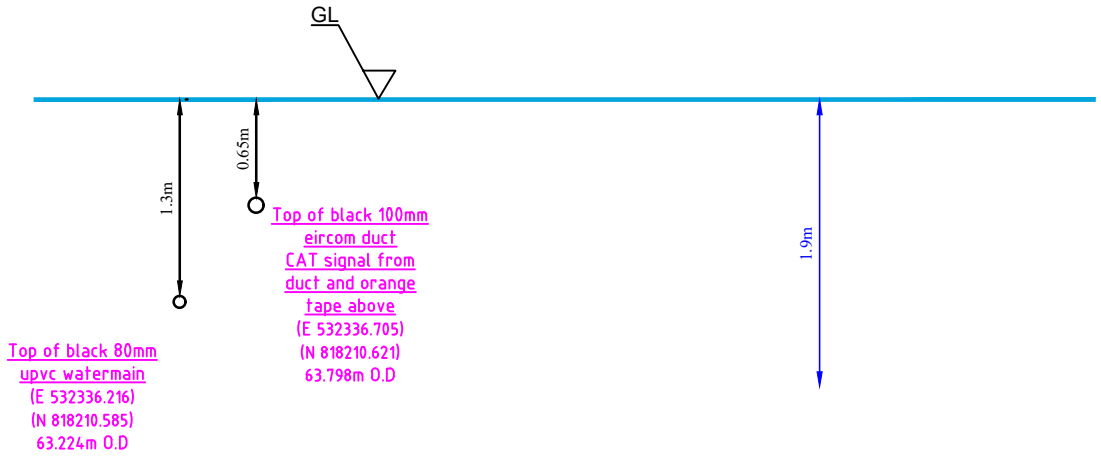
ST-WM103 (Lough Talt) 12/06/2025 Scale : 1:50
Irish Drilling Limited

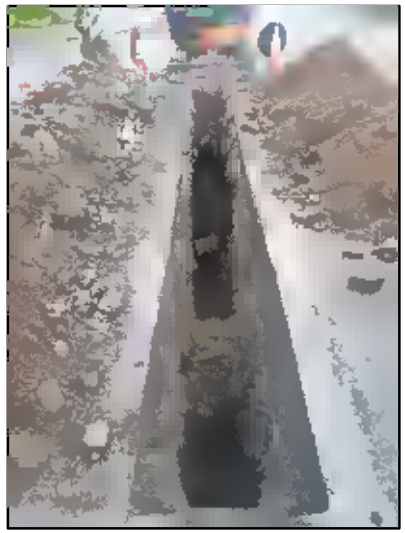
Plan





Section





Trench Dimensions:

Length of Trench: 7.00m
Width of Trench: 1.00m
Depth of Trench: 1.90m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-0.60m
Bulk Bag Sample @ 1.50-1.60m

Notes:

Backfill : Bitumen and 804

Remarks:

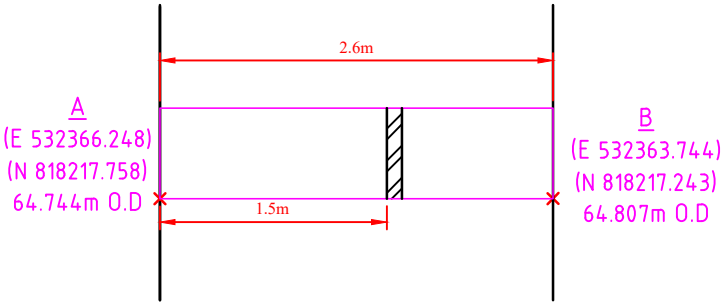
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Bitumen
0.09-0.25 : Tarmac
0.25-1.90 : Brown silty sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse
sub-angular to sub-rounded

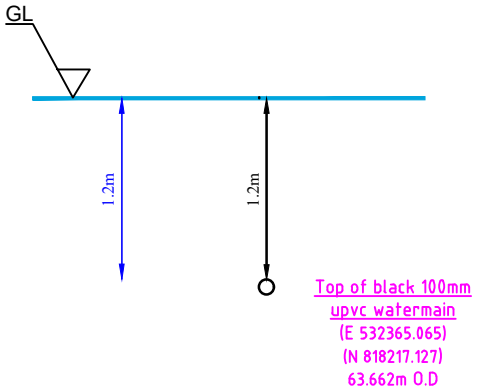
ST-WM103A (Lough Talt) 11/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 2.60m
Width of Trench: 1.00m
Depth of Trench: 1.20m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-0.60m

Notes:

Backfill : Bitumen and 804

Remarks:

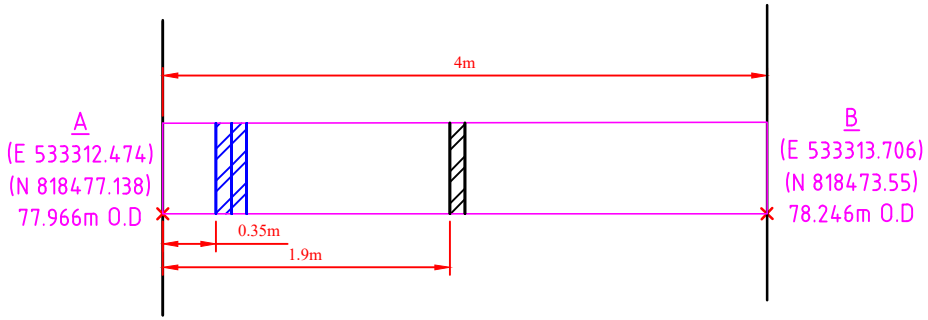
Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.30 : 804
0.20-2.00: Dark brown sandy GRAVEL with a medium quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse angular to sub-angular
Cobbles are sub-angular to sub-rounded

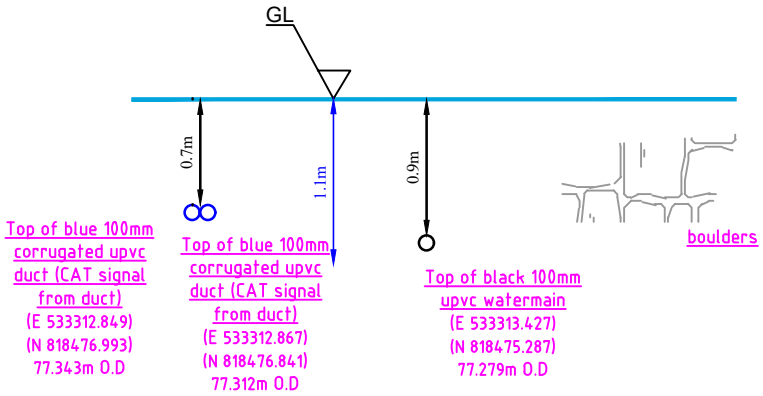
ST-WM106 (Lough Talt) 13/06/2025 Scale : 1:50
Irish Drilling Limited

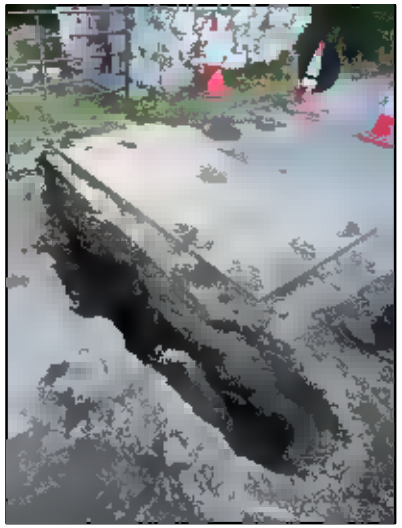
Plan





Section





Trench Dimensions:

Length of Trench: 4.00m
Width of Trench: 1.00m
Depth of Trench: 1.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.60-0.70m

Notes:

Backfill : Bitumen and 804

Remarks:

Trench Stable
Trench Dry

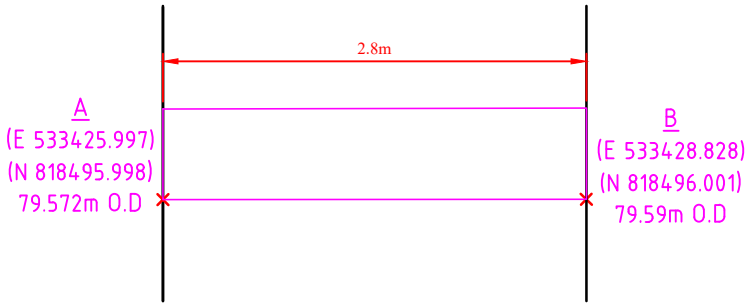
Ground Conditions:

GL-0.05 : Tarmac
0.05-0.20 : Grey brown slightly silty sandy GRAVEL
0.20-1.10 : Grey brown silty sandy GRAVEL with a medium quantity of cobbles and boulders
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to sub-rounded
Cobbles are sub-angular to sub- rounded
Boulder are sub-angular to rounded ranging up to 1.00m

*ST-WM107 (*Lough Talt*) 13/06/2025 Scale : 1:50*
Irish Drilling Limited

N

Plan





Section



Trench Dimensions:
Length of Trench: 2.80m
Width of Trench: 0.50m
Depth of Trench: 0.50m

Logged by: PC

Notes:
Backfill : 804 and arisings

Remarks:
Trench Stable

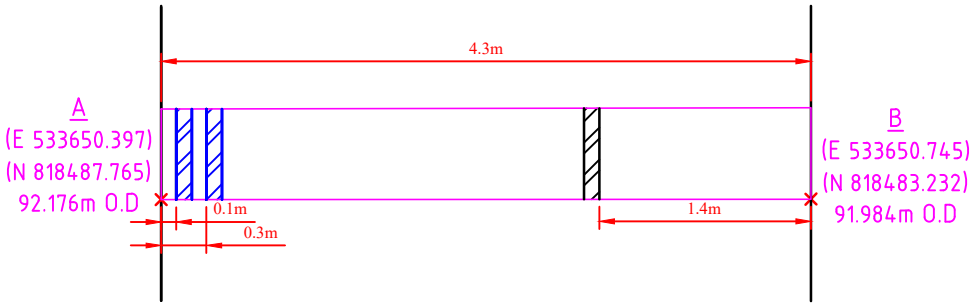
Very large inflow of water @ 0.50m into trench unable to proceed with excavation due high inflow

Ground Conditions:
GL-0.50 : Grass over a slightly clayey silty sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse angular to sub-angular of limestone

*ST-WM108 (*Lough Talt*) 13/06/2025 Scale : 1:50*
Irish Drilling Limited

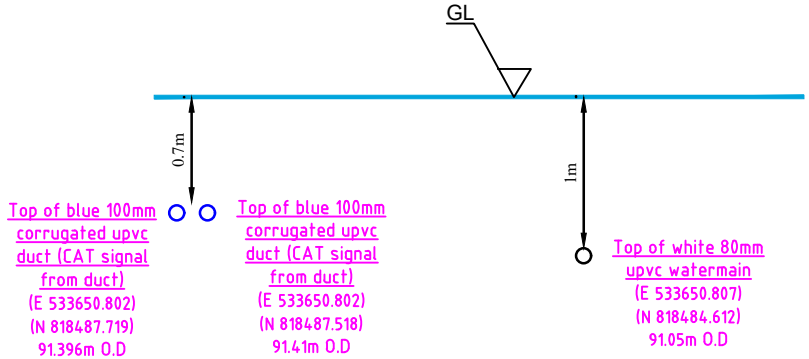
N

Plan





Section



Trench Dimensions:

Length of Trench: 4.30m
Width of Trench: 0.70m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.80-0.90m

Notes:

Backfill : Bitumen and 804

Remarks:

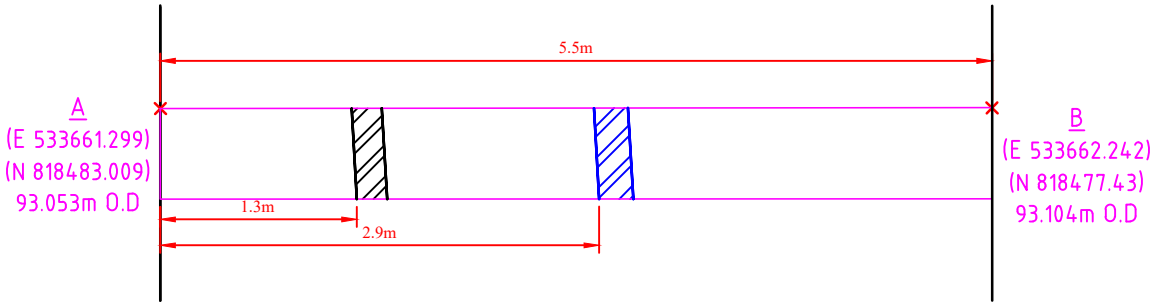
Trench Stable
Trench Dry

Ground Conditions:

GL-0.09 : Tarmac
0.09-0.15 : Grey sandy GRAVEL
0.20-1.10 : Firm brown slightly clayey gravelly sandy SILT with a low quantity of cobbles and a medium quantity of boulders
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-angular to rounded
Boulder are sub-angular to rounded ranging up to 1.00m of limestone

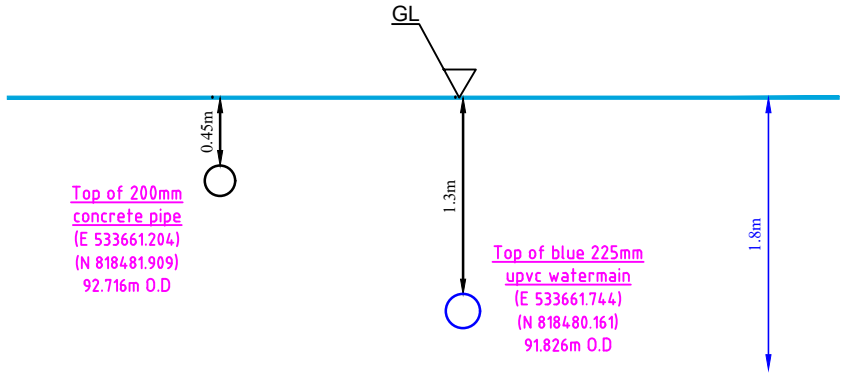
ST-WM108A (Lough Talt) 04/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 5.50m
Width of Trench: 1.00m
Depth of Trench: 1.80m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50-1.00m

Notes:

Backfill : Arisings

Remarks:

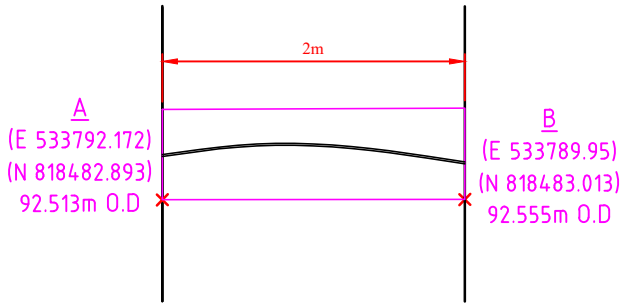
Trench Stable
Trench Dry

Ground Conditions:

GL-0.40 : Soft dark brown gravelly SILT with cobbles
0.40-0.80 : Stiff brown gravelly SILT with cobbles

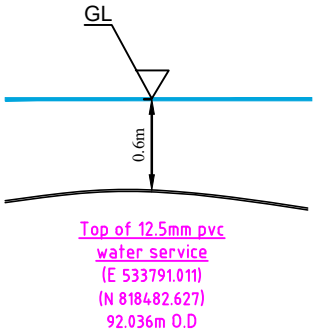
ST-WM109A (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:
Length of Trench: 2.00m
Width of Trench: 0.50m
Depth of Trench: 0.60m

Logged by: PC

Notes:
Backfill : 804 and arisings

Remarks:
Trench Stable
Trench Dry

Ground Conditions:
GL-0.00 : Grass over a dark brown slightly clayey sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to sub-rounded

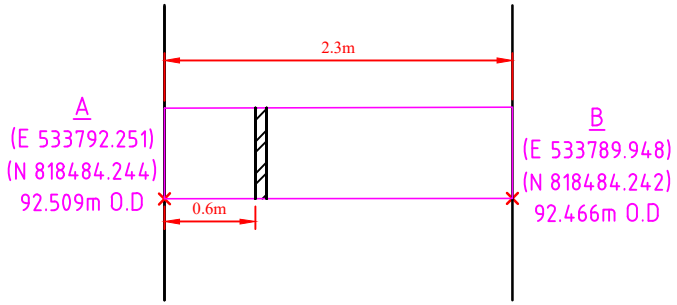
ST-WM109B (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

N

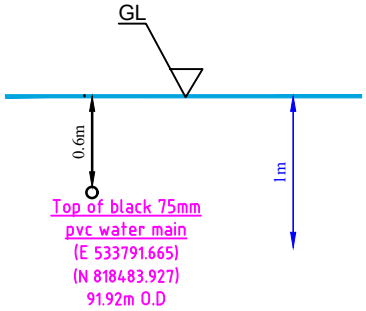




Plan



Section



Trench Dimensions:

Length of Trench: 2.30m
Width of Trench: 1.00m
Depth of Trench: 1.00m

Logged by: PC

Notes:

Backfill : 804 and arisings

Remarks:

Trench Stable
Trench Dry

Ground Conditions:

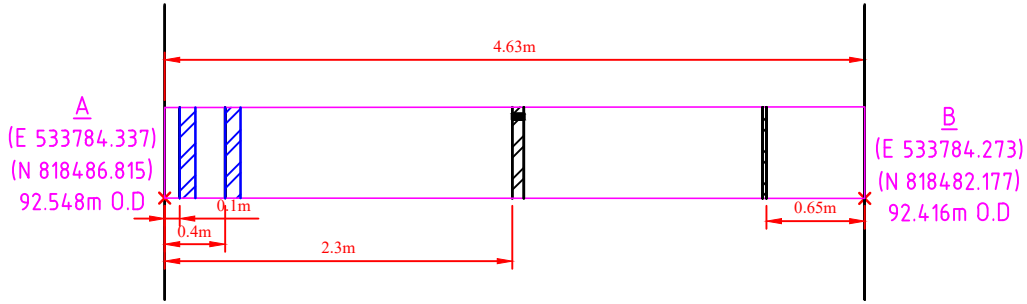
GL-0.08 : Bitumen
0.08-0.80: Brown grey silty sandy GRAVEL with a low quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-rounded to rounded
0.80-1.00 : Dark brown pseudo fibrous PEAT

ST-WM109C (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

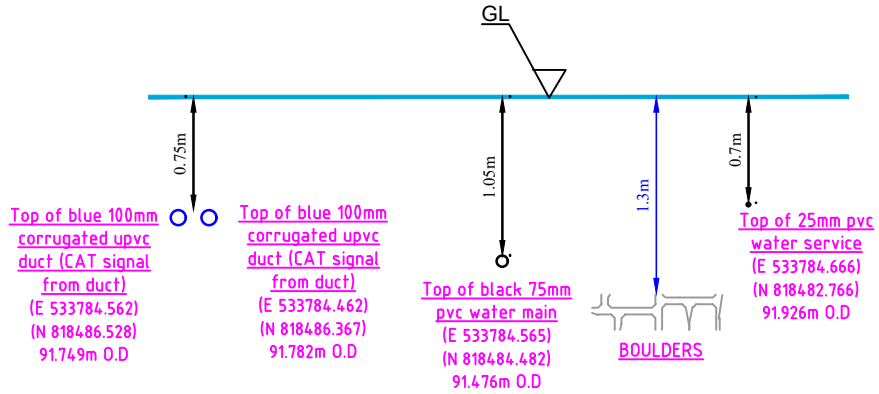




Plan



Section



Trench Dimensions:

Length of Trench: 4.63m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.10-1.20m

Notes:

Backfill : 804 and arisings

Remarks:

Trench Stable
Low inflow of water @ 0.80m

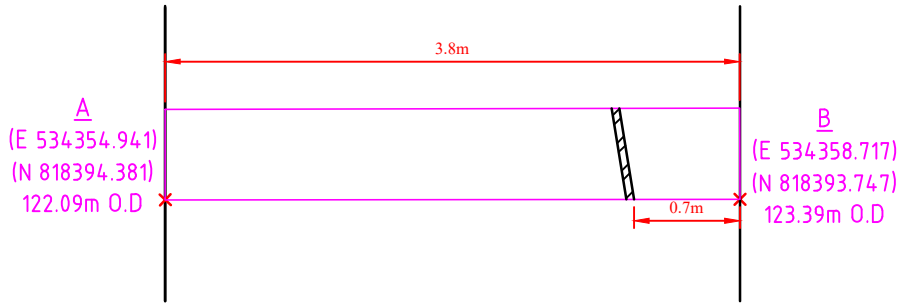
Ground Conditions:

GL-0.08 : Bitumen
0.08-0.50 : Brown grey silty sandy GRAVEL with a low quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-rounded to rounded
0.50-1.30 : Dark brown pseudo fibrous PEAT
1.30 : BOULDERS

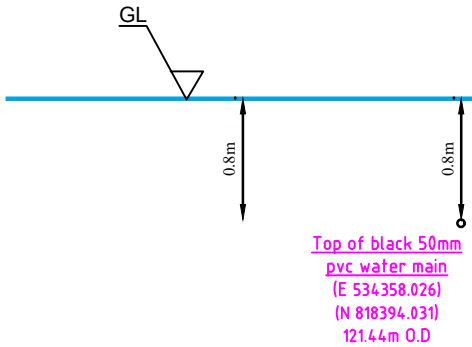
ST-WM110 (Lough Talt) 18/06/2025 Scale : 1:50
Irish Drilling Limited

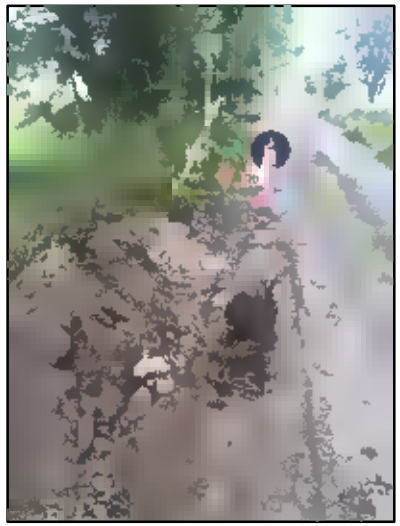
N

Plan



Section







Trench Dimensions:

Length of Trench: 3.80m
Width of Trench: 1.00m
Depth of Trench: 0.80m

Logged by: PC

Notes:

Backfill : 804 and Bitumen

Remarks:

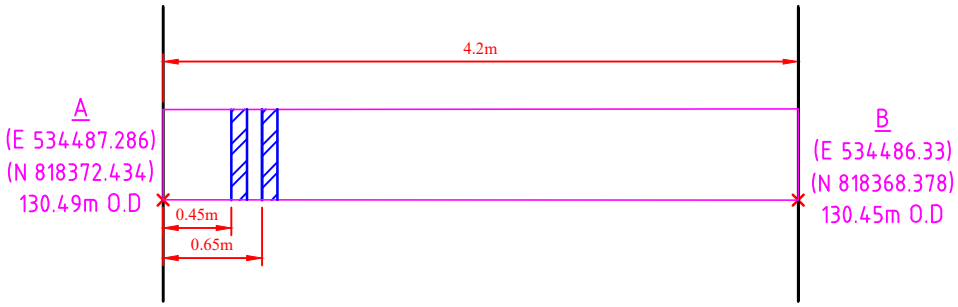
Trench Stable
Trench Dry

Ground Conditions:

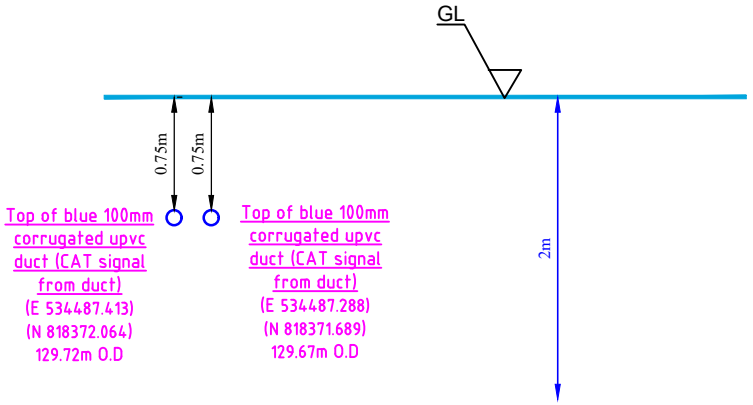
GL-0.10 : Bitumen
0.10-0.40: Light brown silty sandy GRAVEL with a low quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-angular to rounded
0.40-0.80 : Dark brown amorphous PEAT

ST-WM111 (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

Plan



Section







Trench Dimensions:

Length of Trench: 4.63m
Width of Trench: 1.00m
Depth of Trench: 1.30m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.70-1.80m

Notes:

Backfill : Bitumen and 804

Remarks:

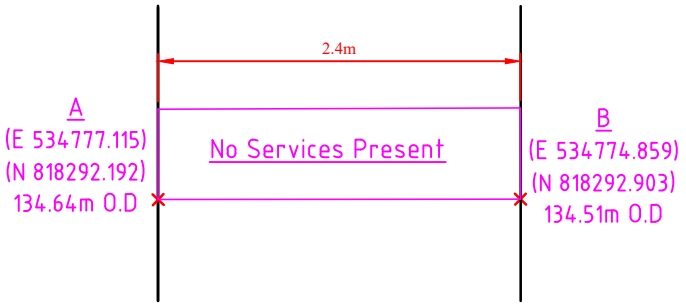
Trench Stable
Trench Dry

Ground Conditions:

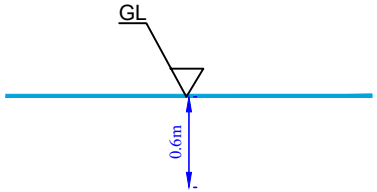
GL-0.09 : Bitumen
0.09-0.20 : Brown grey sandy GRAVEL
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded of limestone
0.20-0.80: Firm orange brown sandy gravelly SILT
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded of limestone
0.80-2.00 : Orange brown gravelly SAND

*ST-WM112 (*Lough Talt*) 19/06/2025 Scale : 1:50*
Irish Drilling Limited

Plan



Section



Trench Dimensions:

Length of Trench: 2.40m
Width of Trench: 1.00m
Depth of Trench: 0.60m

Logged by: PC

Samples:
Bulk Bag Sample @ 0.50m-0.60m

Notes:

Backfill : 804 and Bitumen

Remarks:

Trench Stable
Trench Dry

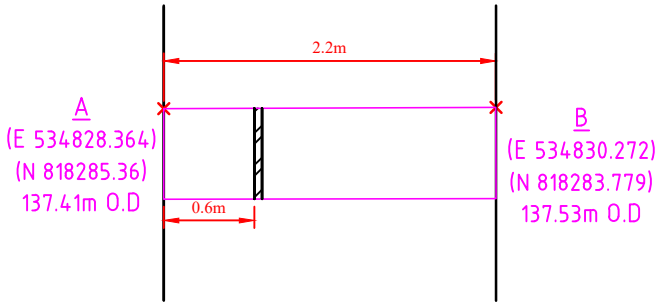
Ground Conditions:

GL-0.06 : Bitumen
0.06-0.40: Light brown slightly silty sandy GRAVEL with a low quantity of cobbles
Sand content is fine to coarse
Gravel content is fine to coarse sub-angular to rounded
Cobbles are sub-angular to rounded
0.40-0.60 : Brown plastic clayey amorphous PEAT

ST-WM112A (Lough Talt) 19/06/2025 Scale : 1:50
Irish Drilling Limited

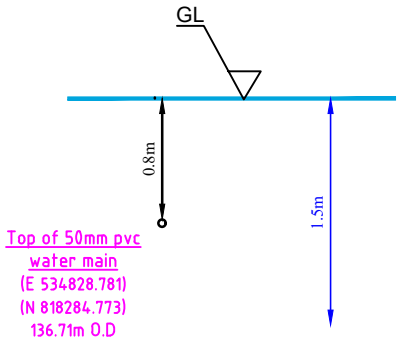
N

Plan





Section



Trench Dimensions:

Length of Trench: 2.20m
Width of Trench: 1.00m
Depth of Trench: 1.50m

Logged by: DOR

Samples:
Bulk Bag Sample @ 0.50m-1.00m

Notes:

Backfill : Arisings

Remarks:

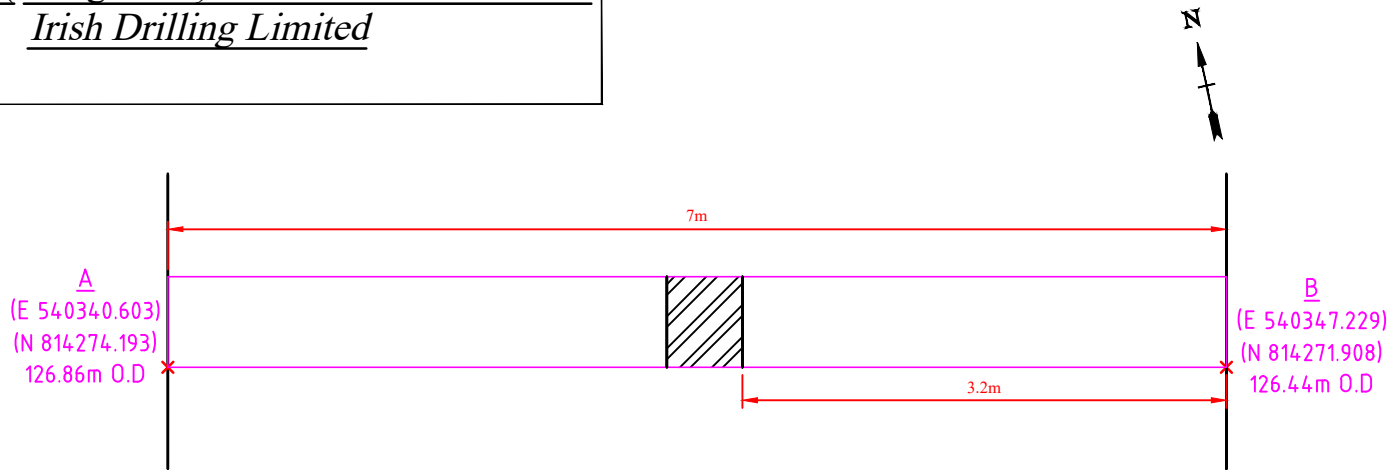
Trench Stable
Trench Dry

Ground Conditions:

GL-1.50 : Soft brown PEAT/SILT

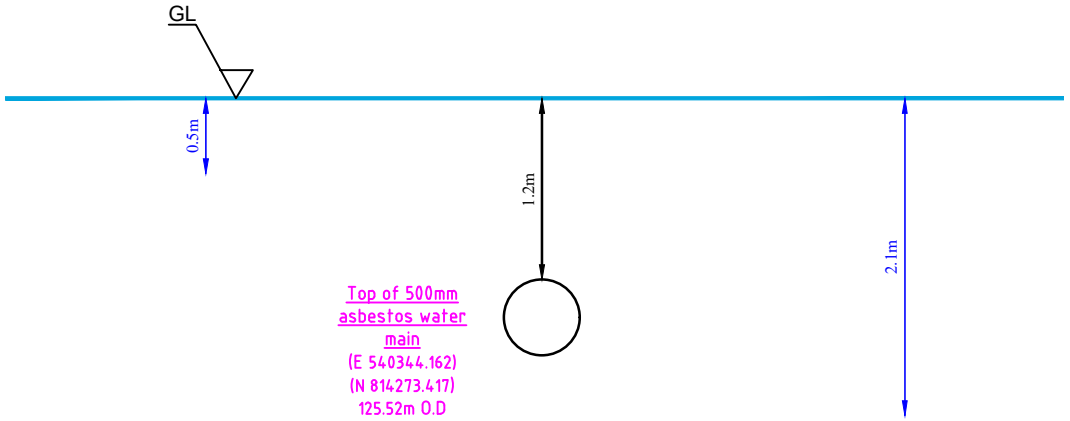
ST-WM113 (Lough Talt) 25/06/2025 Scale : 1:50
Irish Drilling Limited

Plan





Section





Trench Dimensions:

Length of Trench: 7.00m
Width of Trench: 1.00m
Depth of Trench: 2.10m

Logged by: PC

Samples:
Bulk Bag Sample @ 1.00m-1.10m
Bulk Bag Sample @ 2.00m-2.10m

Notes:

Backfill : 804 and Bitumen

Remarks:

Trench Stable
Trench Dry

Ground Conditions:

GL-0.10 : Bitumen
0.10-0.25: Tarmac
0.25-0.90 :(Made Ground) Orange brown silty sandy GRAVEL with a medium quantity of cobbles
Sand is fine to coarse
Gravel is fine to coarse sub-angular to sub-rounded
Cobbles are sub-angular to rounded
0.60-2.10 : Stiff light brown slightly clayey slightly sandy gravelly SILT

Appendix 5
Dynamic Probe Records

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M003**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	31.00	E 522,240.0 N 825,093.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 2 2			
1	1 1 1 1 1			
1	1 1 2 2 2			
1	1 1 4 6 7			
2	4 6 25			Refusal. 25 blows for 30mm.
3				
4				
5				
6				
7				

Diagram (N100 Values): 5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

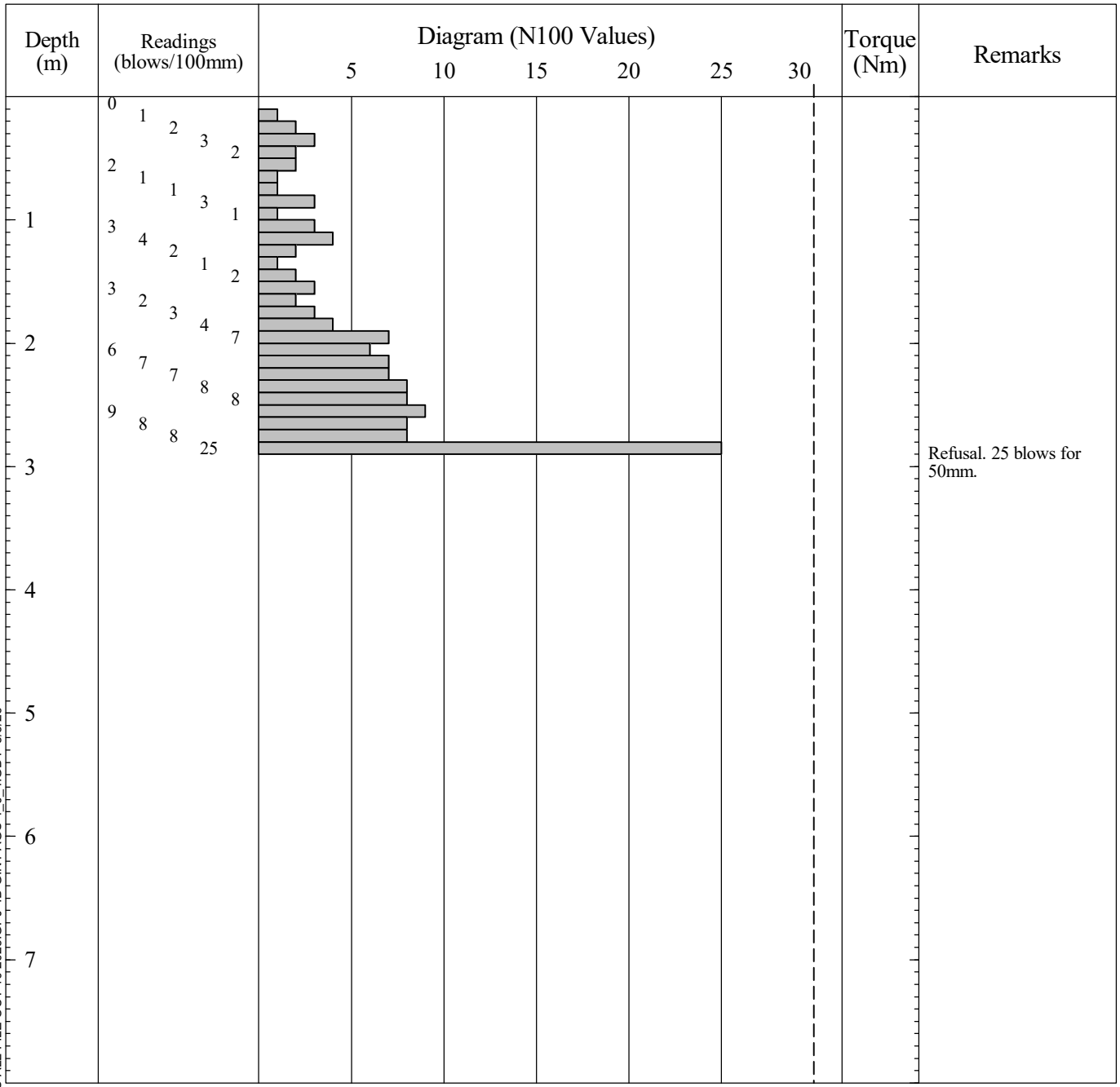
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M004**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	35.57	E 522,419.5 N 824,568.9

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

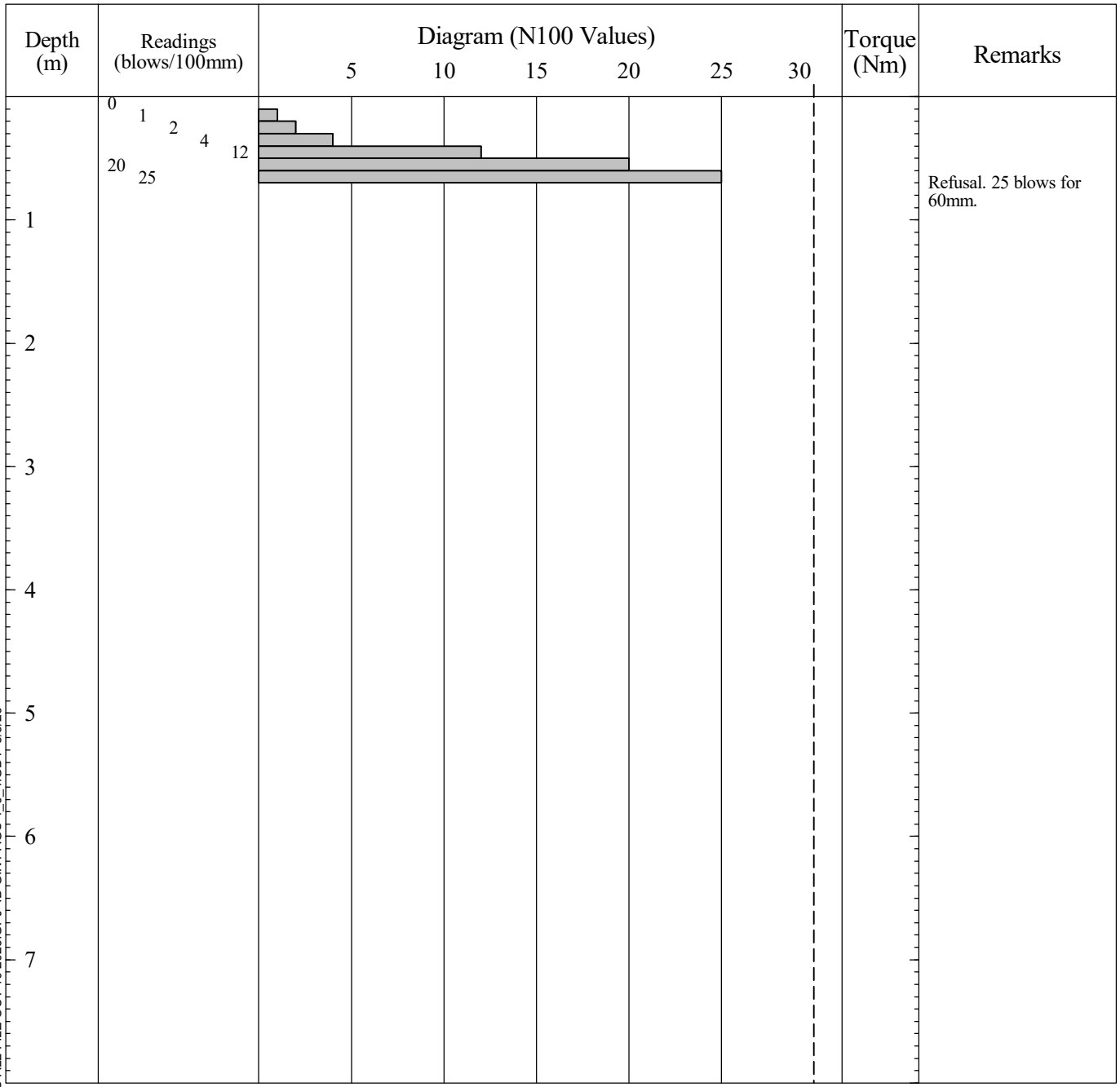
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M005**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	37.54	E 522,530.9 N 824,285.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M005A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	37.54	E 522,531.0 N 824,825.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 1 3 3 7 17 20 25	5 10 15 20 25 30		Refusal. 25 blows for 50mm.

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M006**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	37.85	E 522,566.5 N 824,197.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 3 2	5 10 15 20 25 30		
1	13 25			Refusal. 25 blows for 30mm.
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

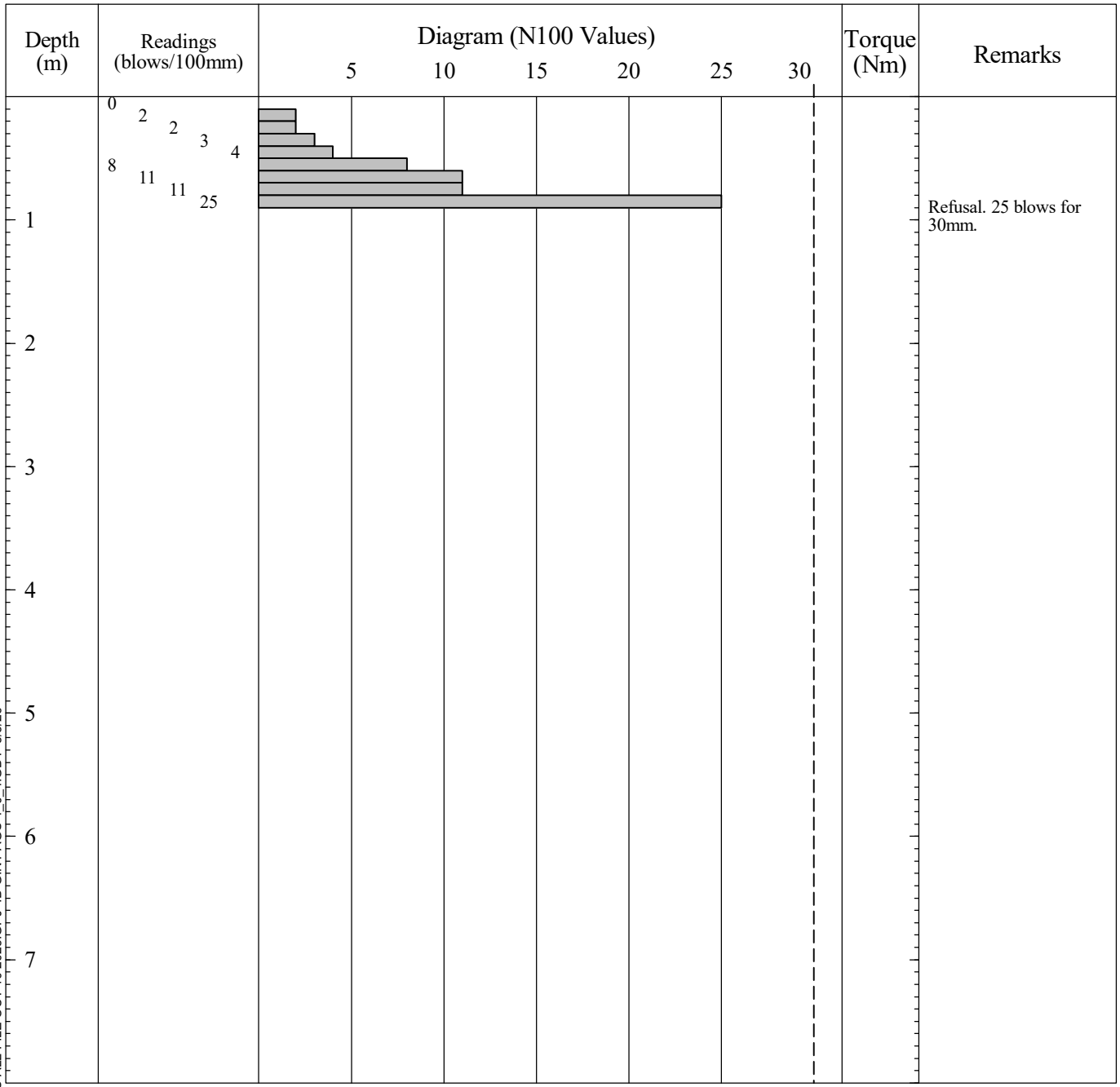
Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M006A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	37.85	E 522,567.0 N 824,198.0

Engineer: Atkins Realis

Sheet 1 of 1

Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

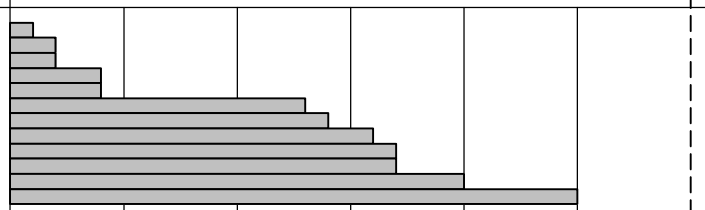
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M007**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	38.22	E 522,614.1 N 824,082.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 2 2 4	5 10 15 20 25 30		
1	4 13 14 16 17			Refusal. 25 blows for 45mm.
2	17 20 25			
3				
4				
5				
6				
7				



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M008**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	38.00	E 522,651.9 N 823,989.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 2 2	5 10 15 20 25 30		
1	10 14 14 14 18			
2	18 17 25			Refusal. 25 blows for 30mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

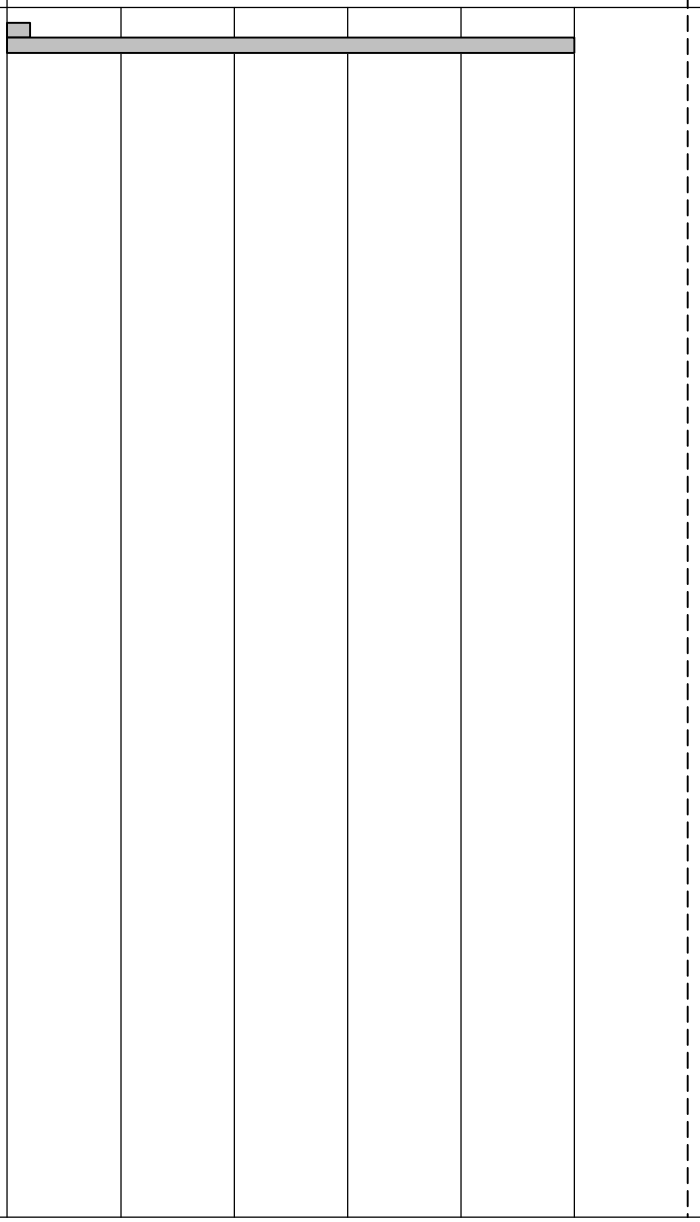
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M009**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	38.53	E 522,759.2 N 823,734.0

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0			
0.20	1 25			Refusal. 25 blows for 30mm.



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M009A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	38.52	E 522,761.2 N 823,734.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	3 25	5 10 15 20 25 30		Refusal. 25 blows for 40mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

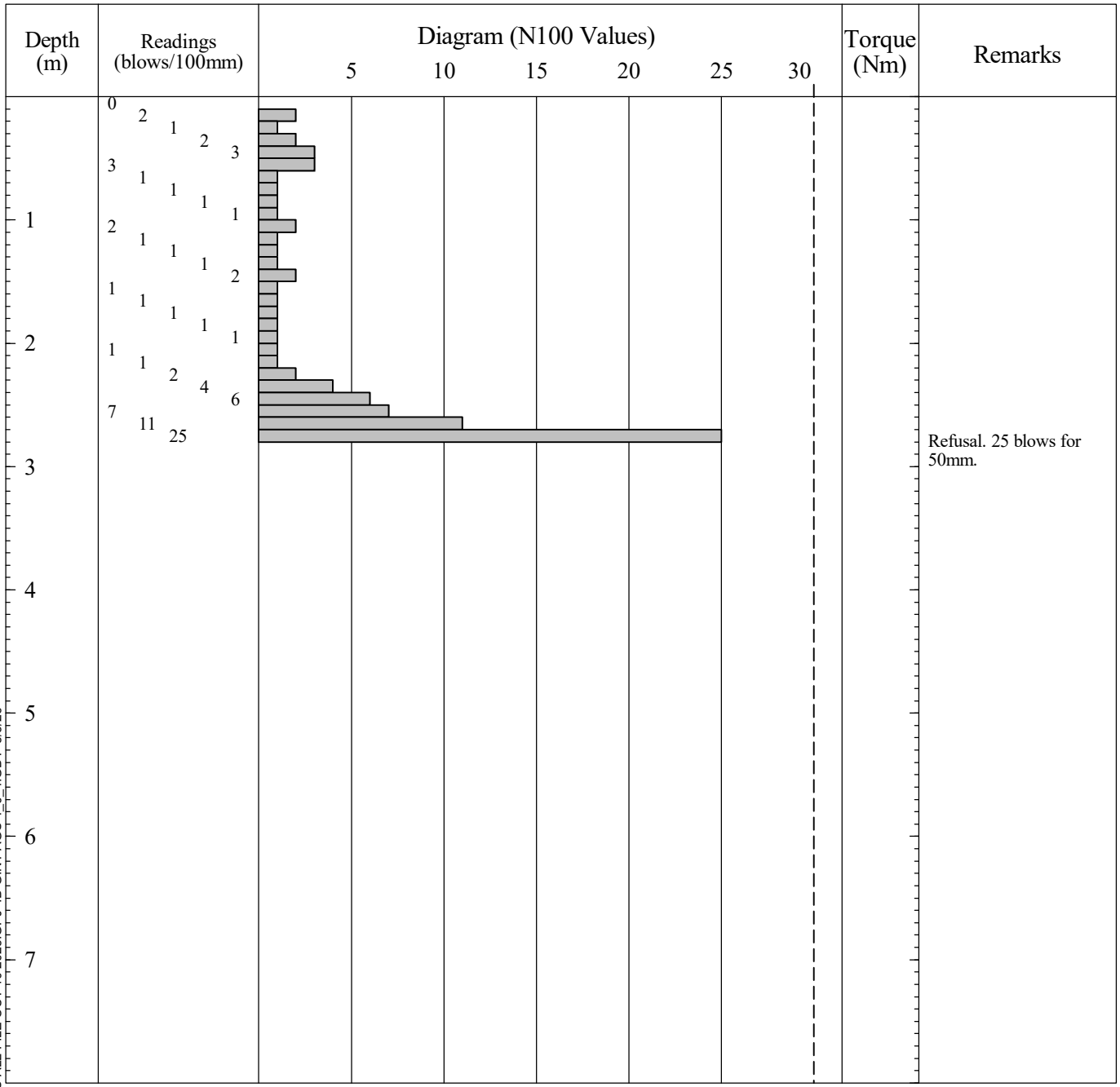
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M010**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	10-07-25 10-07-25	37.60	E 522,845.6 N 823,578.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M011**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	38.89	E 522,921.1 N 823,465.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	3 8 5 7	5 10 15 20 25 30		
1	5 5 6 4 5			
2	2 2 1 2 1			
3	1 1 2 1 2			
4	2 1 2 2 2			
5	2 1 2 1 5			
6	9 25			Refusal. 25 blows for 40mm.
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

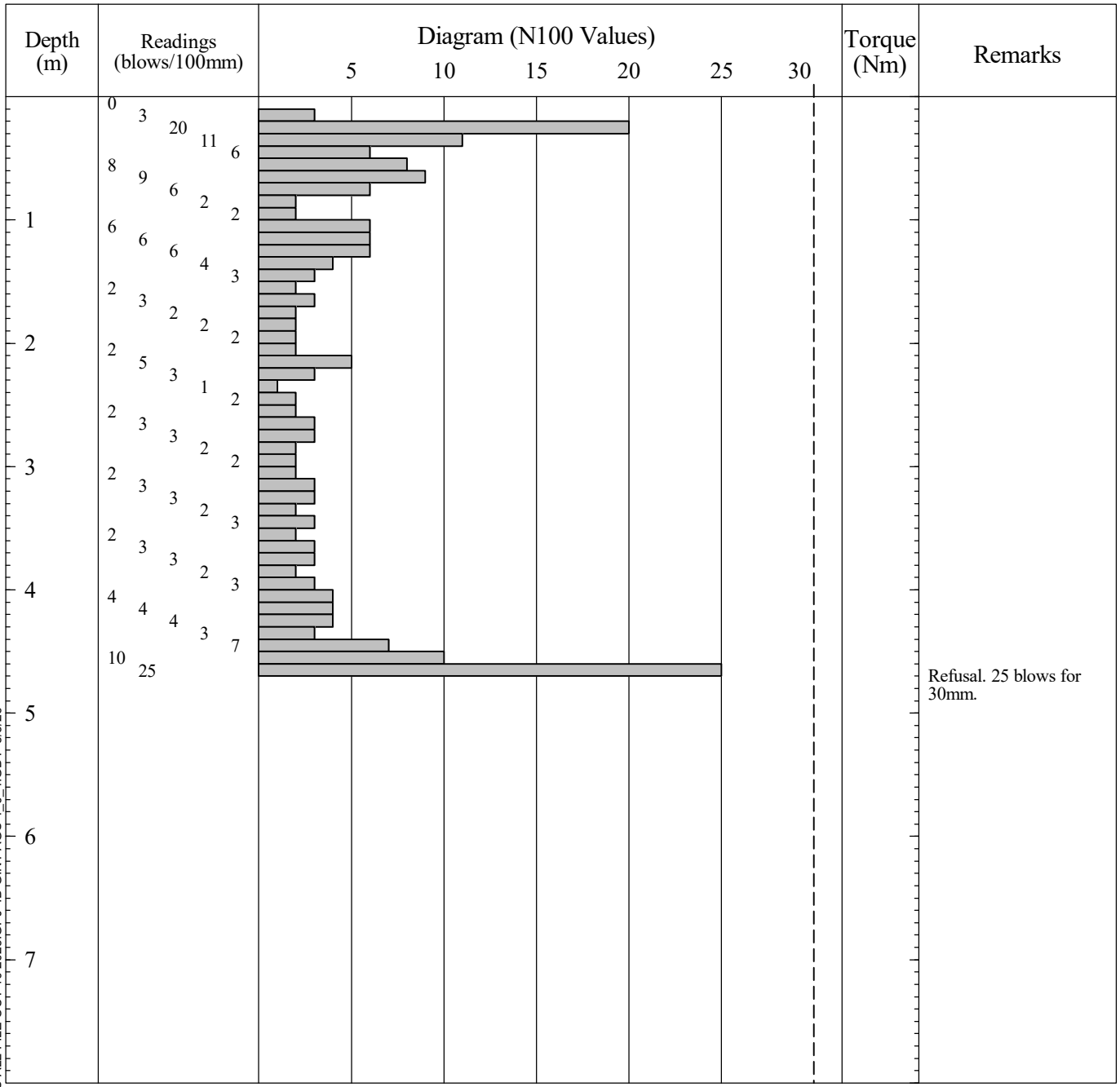
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M012**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	39.33	E 523,000.2 N 823,347.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

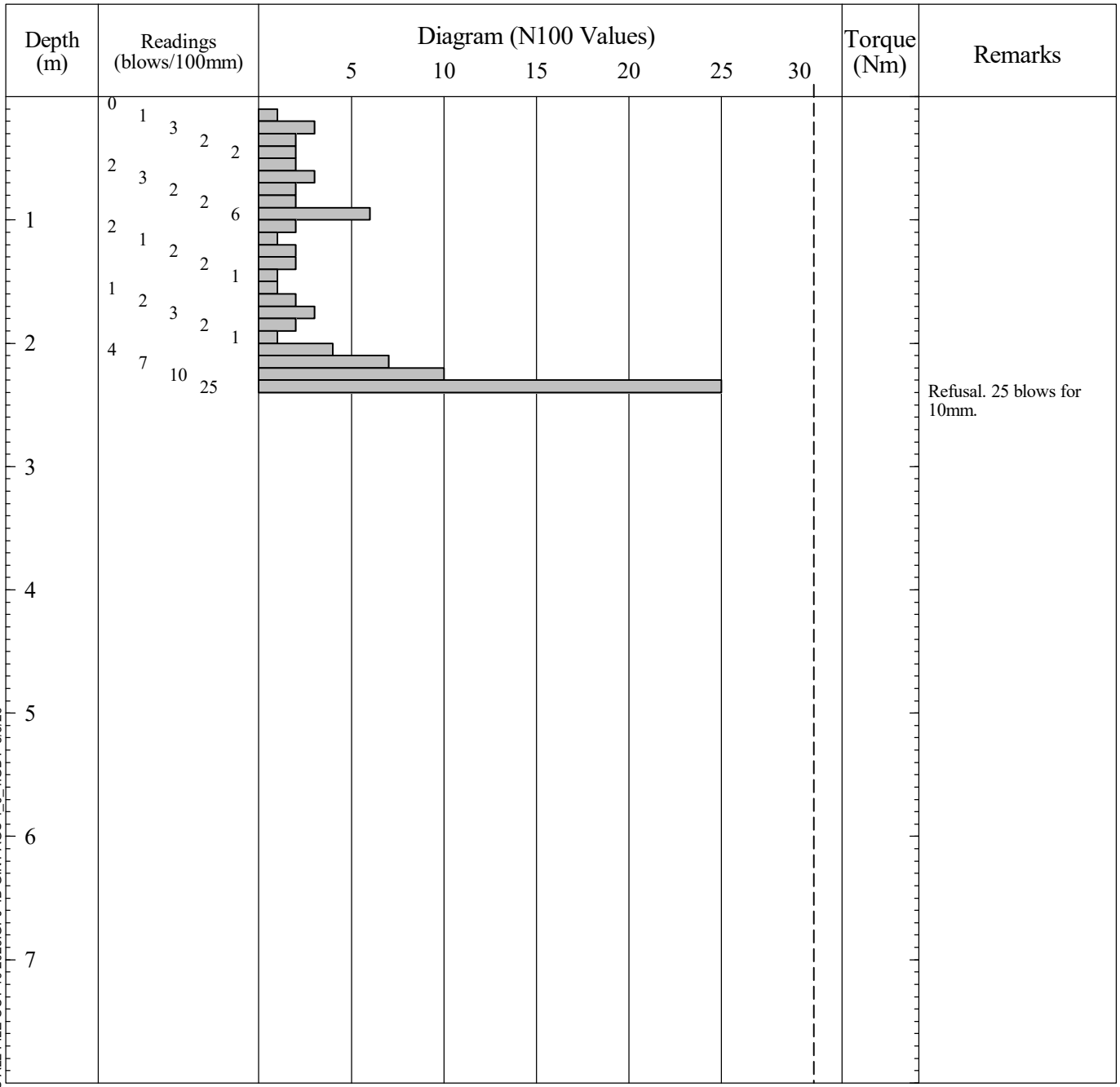
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M013**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	38.22	E 523,162.2 N 823,149.4

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M014**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	33.78	E 523,668.2 N 822,282.4

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 3 2	5 10 15 20 25 30		
1	2 1 1 1 1			
2	1 1 1 2 1			
3	1 1 1 2 2			
4	1 3 10 5 5			
5	25			Refusal. 25 blows for 20mm.
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

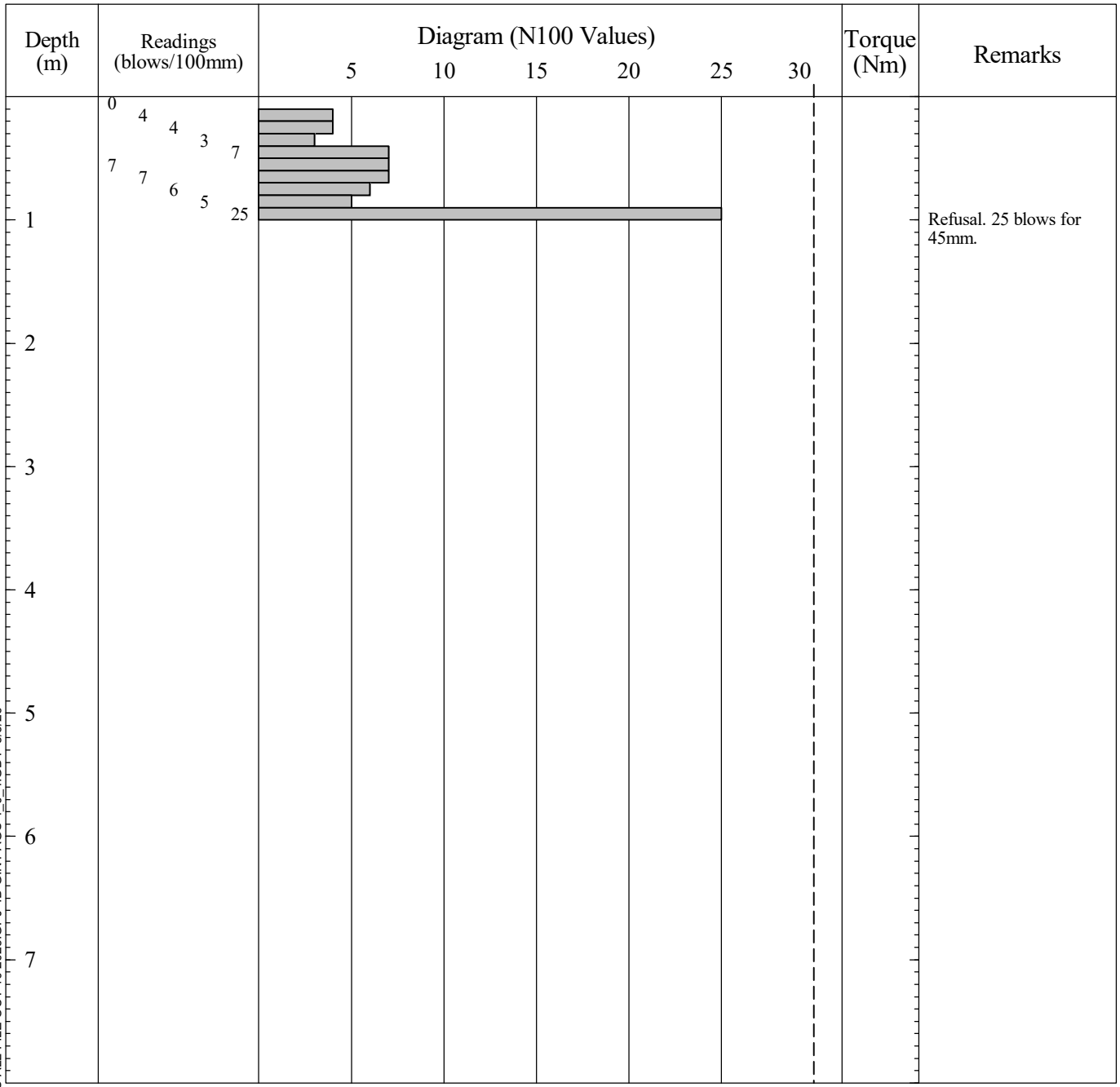
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M015**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	32.74	E 523,780.7 N 821,730.4

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M016**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	31.33	E 523,812.0 N 821,504.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 15 34 57 36 17 21 18 25	5 10 15 20 25 30 34 57 36		Refusal. 25 blows for 60mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP-M16 expedited through Tarmac. DP terminated at 0.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M017**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	29.52	E 523,891.1 N 821,269.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	2 3 2 3	5 10 15 20 25 30		
1	3 4 4 2 2			
2	4 4 7 4 1			
3	1 1 1 1 1			
4	2 1 1 2 1			
5	2 3 7 7 10			
6	15 25			Refusal. 25 blows for 50mm.
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M018**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	29.11	E 523,973.4 N 821,295.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	3 15 24 24			
1	3 2 2 2 2			
2	1 1 1 1 1			
3	1 1 1 1 2			Refusal. 25 blows for 45mm.
4	4 5 5 2 2			
5	2 25			
6				
7				

Diagram (N100 Values) scale: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

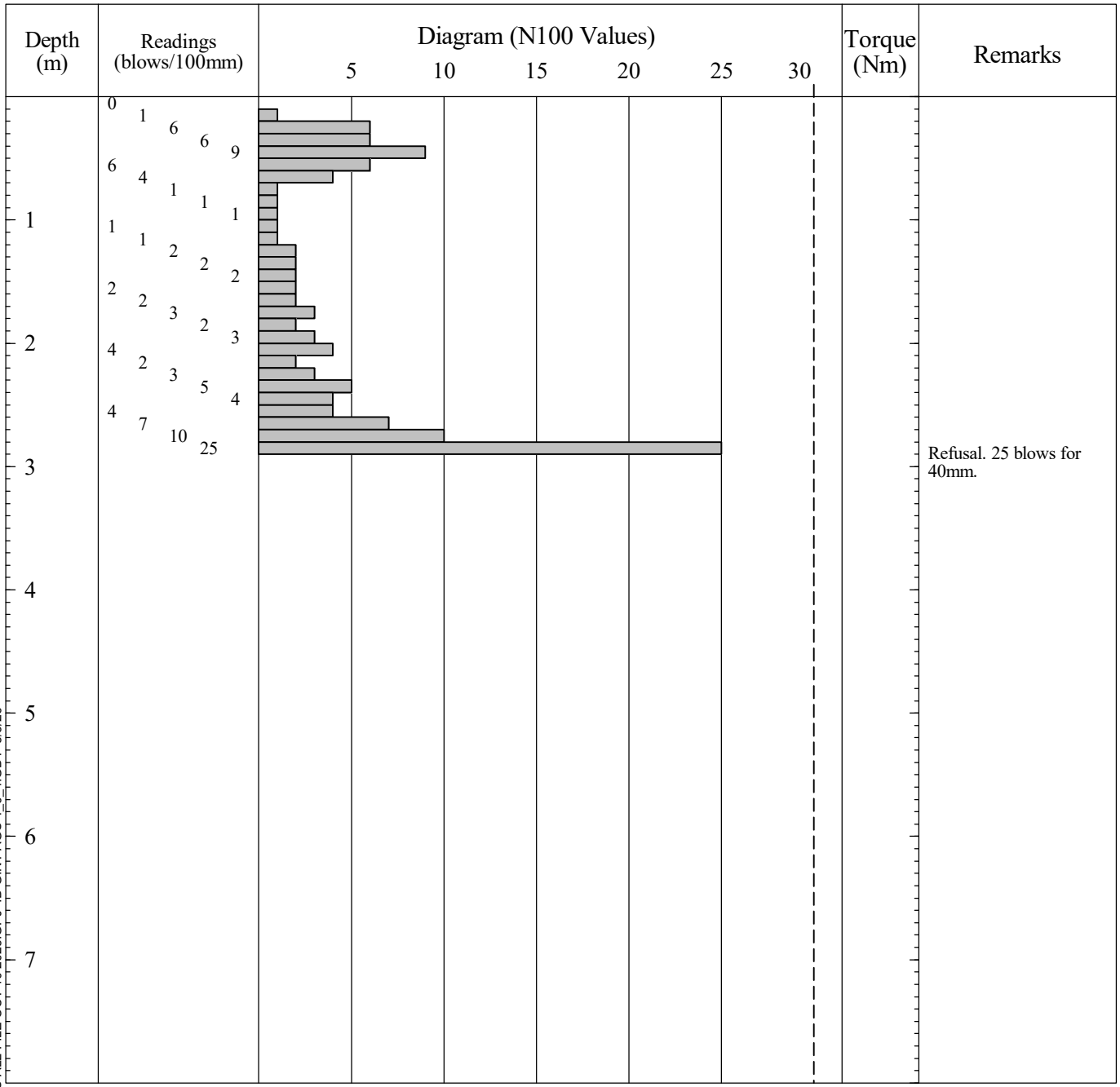
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M019**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-07-25 09-07-25	28.19	E 524,474.8 N 821,193.3

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M020**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	20.79	E 524,709.8 N 821,173.0

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 0 0 0 0 0 25	5 10 15 20 25 30		Refusal. 25 blows for 50mm.

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M020A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	20.82	E 524,711.5 N 821,174.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 0 0 0	5 10 15 20 25 30		
1	0 1 4 25			Refusal. 25 blows for 55mm.
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M021**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	17.57	E 525,019.7 N 821,177.0

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0			
0.10	1			
0.20	3			
0.30	3			
0.40	8			
0.50	25			Refusal. 25 blows for 50mm.

Diagram (N100 Values): 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

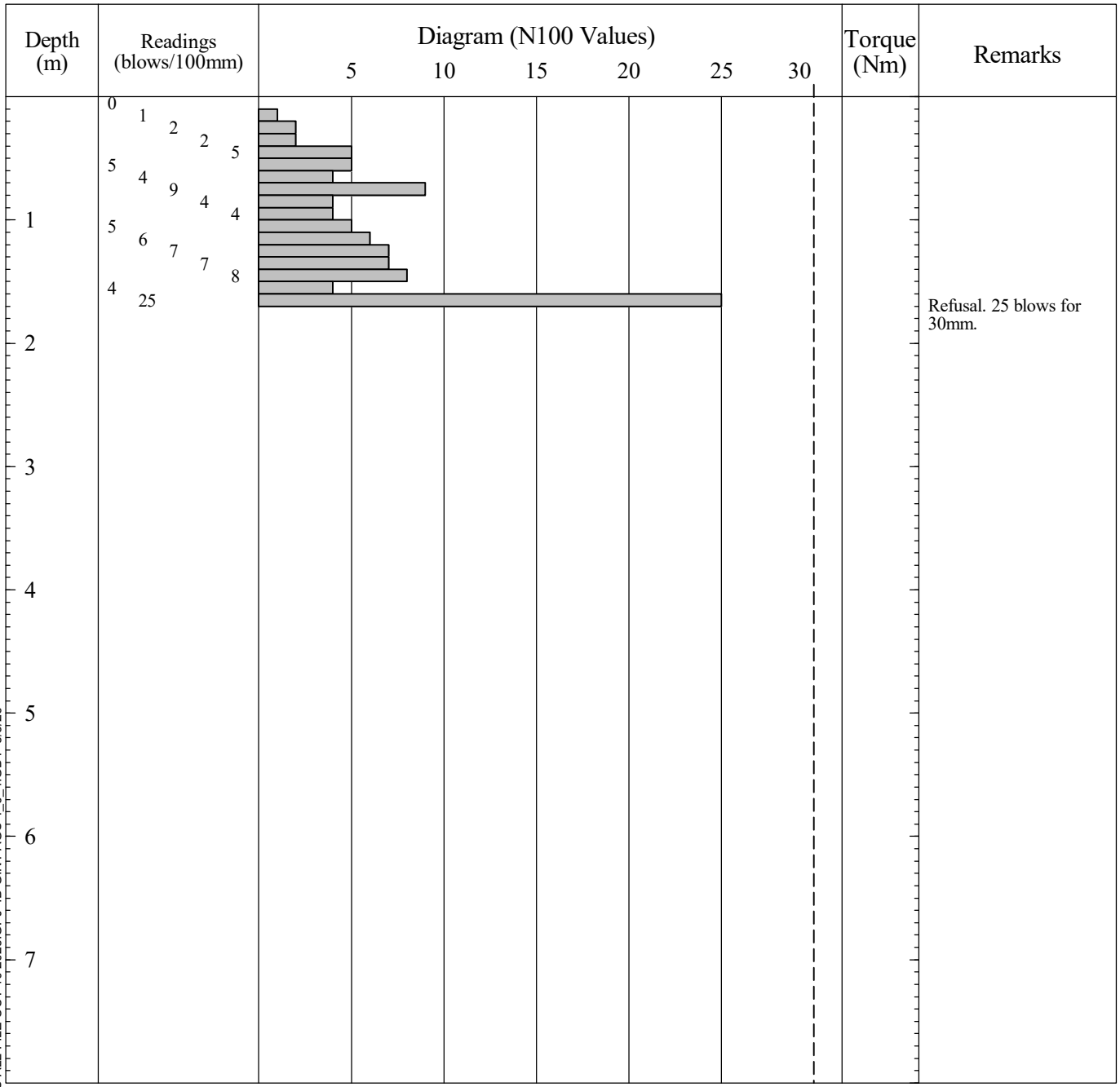
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M022**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	5.80	E 525,825.6 N 821,057.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

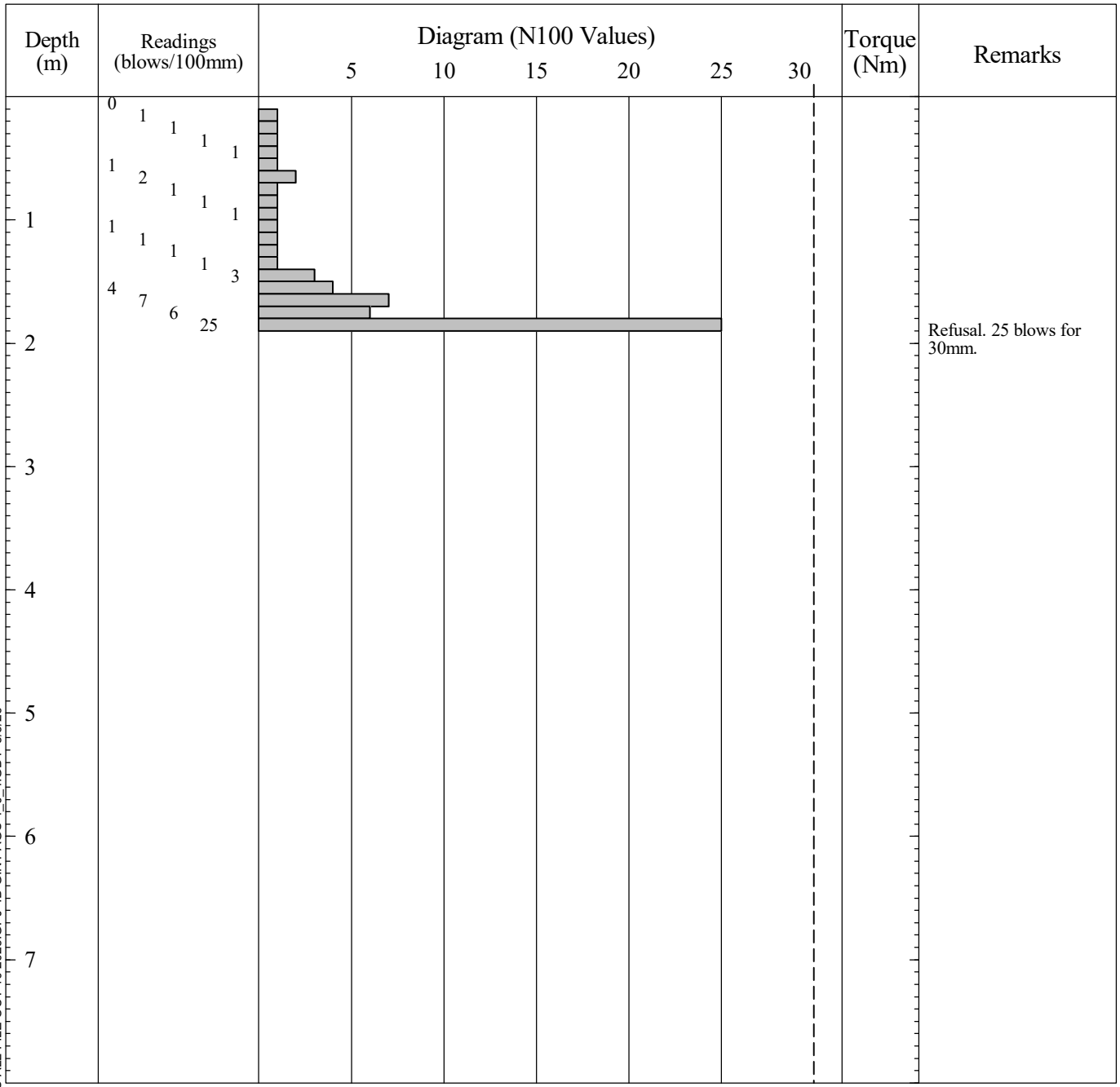
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M023**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	7.28	E 525,868.6 N 820,988.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M024**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	04-07-25 04-07-25	8.76	E 525,916.5 N 820,938.3

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 2 3	5 10 15 20 25 30		
1	4 7 5 3 4			
2	3 3 2 1 3			
3	15 25			Refusal. 25 blows for 30mm.
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M025**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	12.83	E 526,208.0 N 820,817.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 3 2 8			
1	12 5 4 3 4			
2	6 8 8 11 11			
3	25			Refusal. 25 blows for 30mm.
4				
5				
6				
7				

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

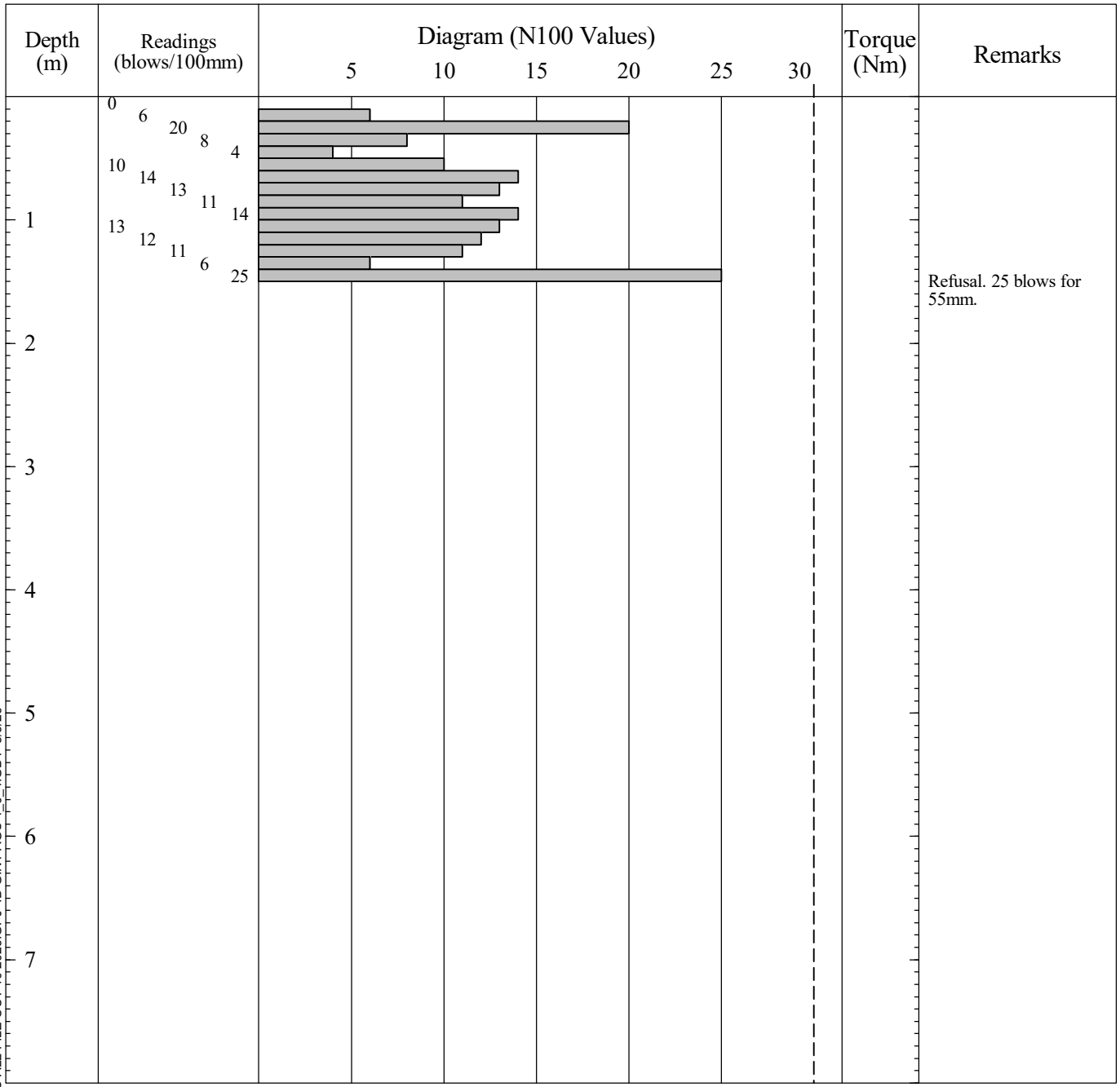
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M026**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	15.13	E 526,312.4 N 820,790.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

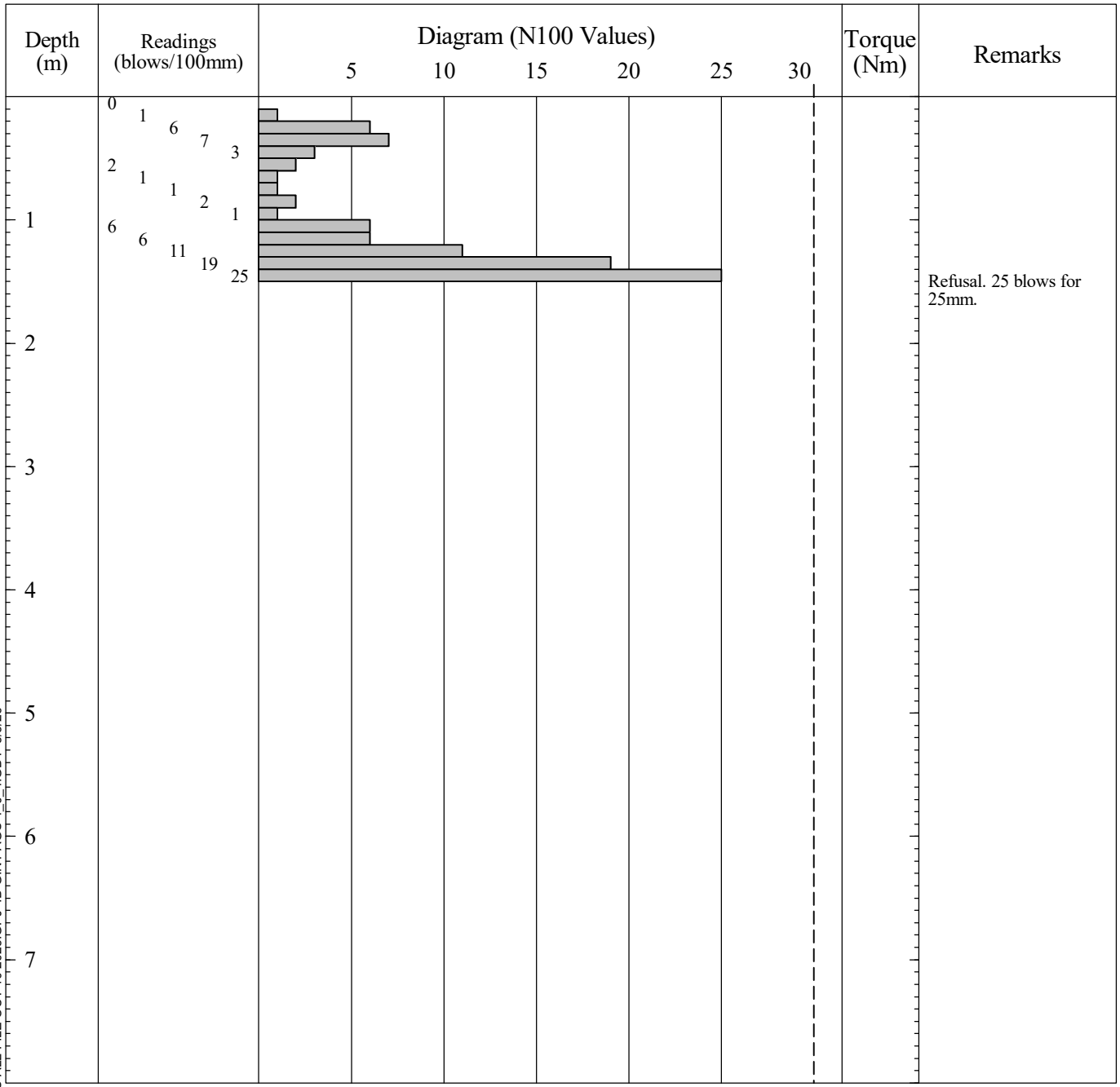
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M027**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	19.20	E 526,532.7 N 820,696.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M028**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	32.34	E 527,307.0 N 820,543.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 2 2	5 10 15 20 25 30		
1	2 3 3 2			
2	3 4 1 1 1			Refusal. 25 blows for 50mm.
3	1 3 25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

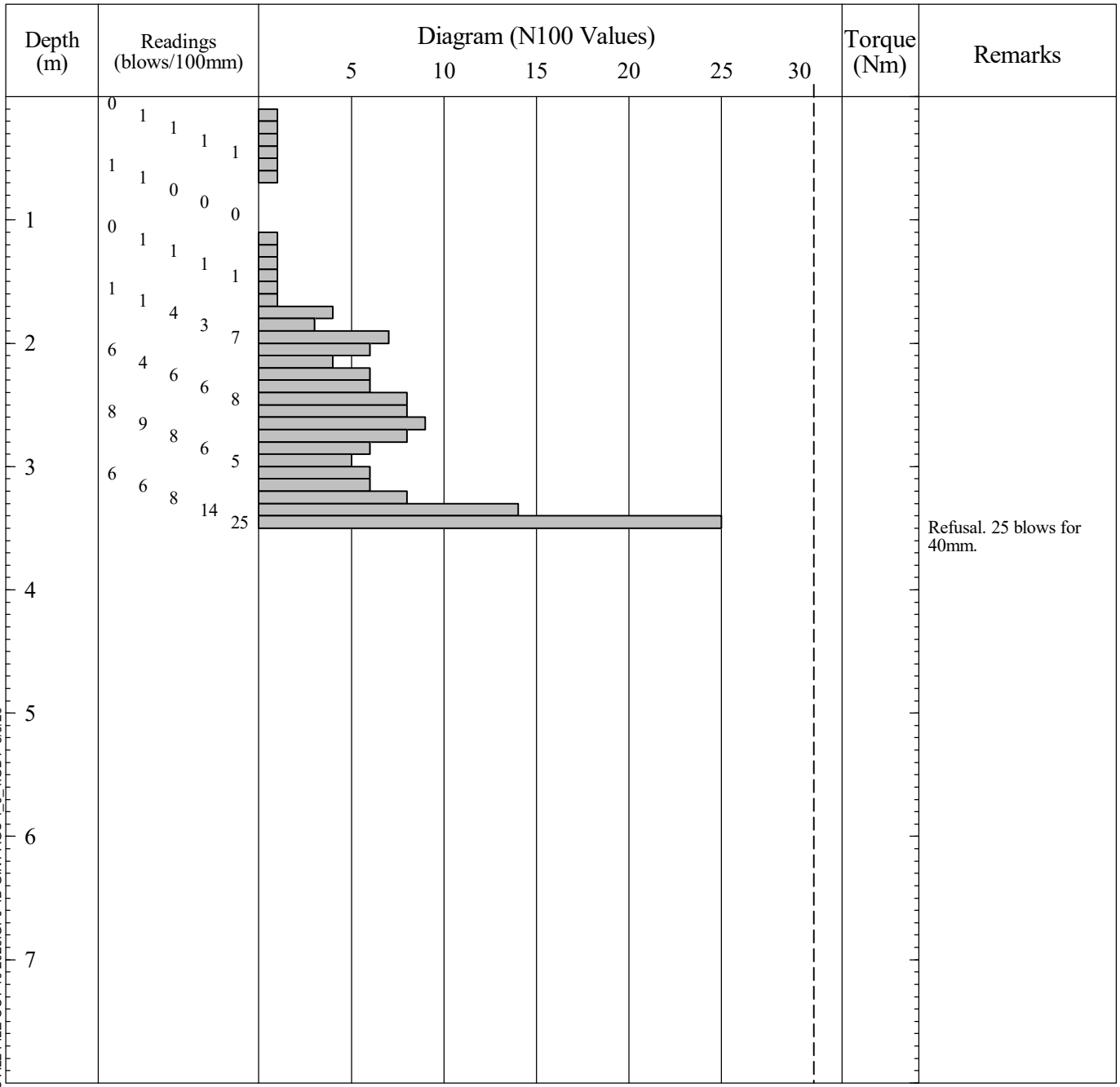
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M029**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	34.93	E 527,623.3 N 820,198.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M030**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	35.56	E 527,686.8 N 820,138.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 1 1 1	5 10 15 20 25 30		
1	1 3 5 4 3			
2	1 2 5 4 5			Refusal. 25 blows for 30mm.
3	5 14 25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

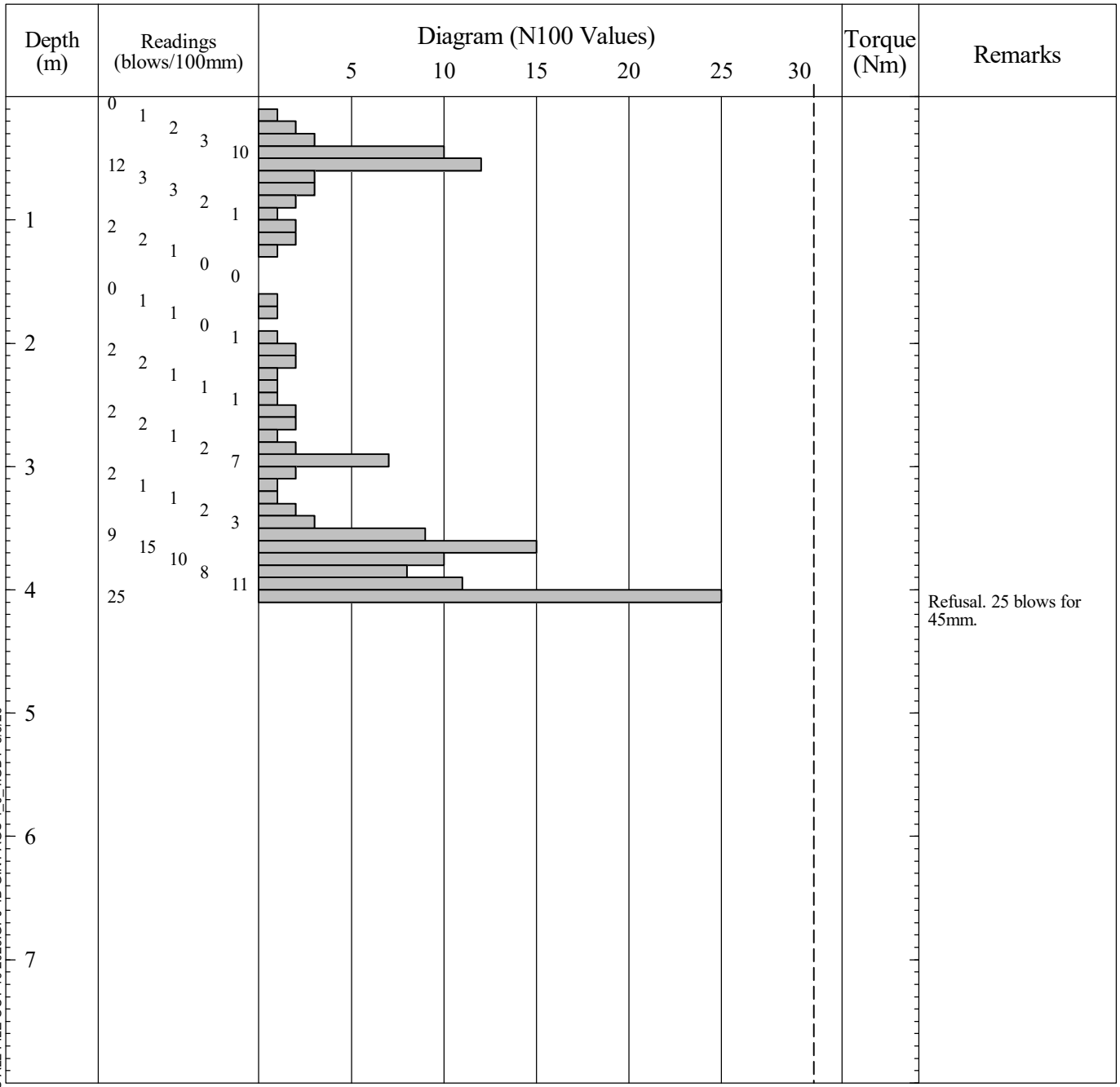
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M031**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 02-07-25	35.17	E 527,638.9 N 819,495.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M032**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	34.04	E 527,912.1 N 819,336.4

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 5 7 7			
1	3 3 2 2 2			
2	1 1 1 2 1			
3	2 2 1 2 2			
4	3 3 2 1 1			
5	2 2 3 2 2			
6	2 3 3 2 3			
7	2 8 10 10 25			Refusal. 25 blows for 30mm.

5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

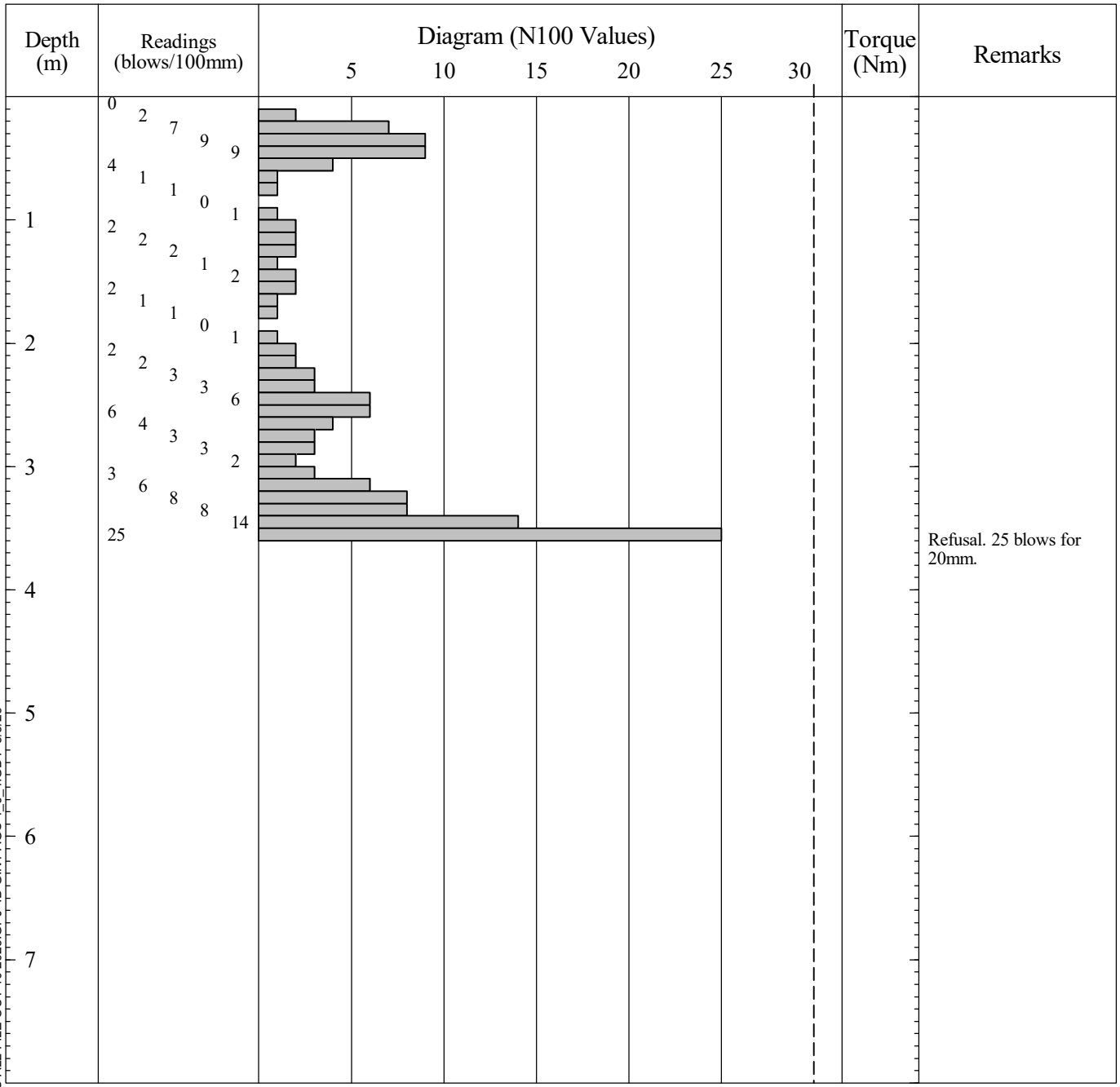
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M033**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	33.88	E 528,014.9 N 819,296.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M034**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	32.94	E 528,156.2 N 819,231.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 2 4	5 10 15 20 25 30		
1	2 3 3 2 2			
2	3 1 1 1 0			
3	1 1 2 2 1			
4	3 3 2 1 1			
5	1 1 2 4 4			
6	5 4 6 2 6			
7	20			Refusal. 25 blows for 20mm.

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M035**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	31.61	E 528,260.1 N 819,171.3

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

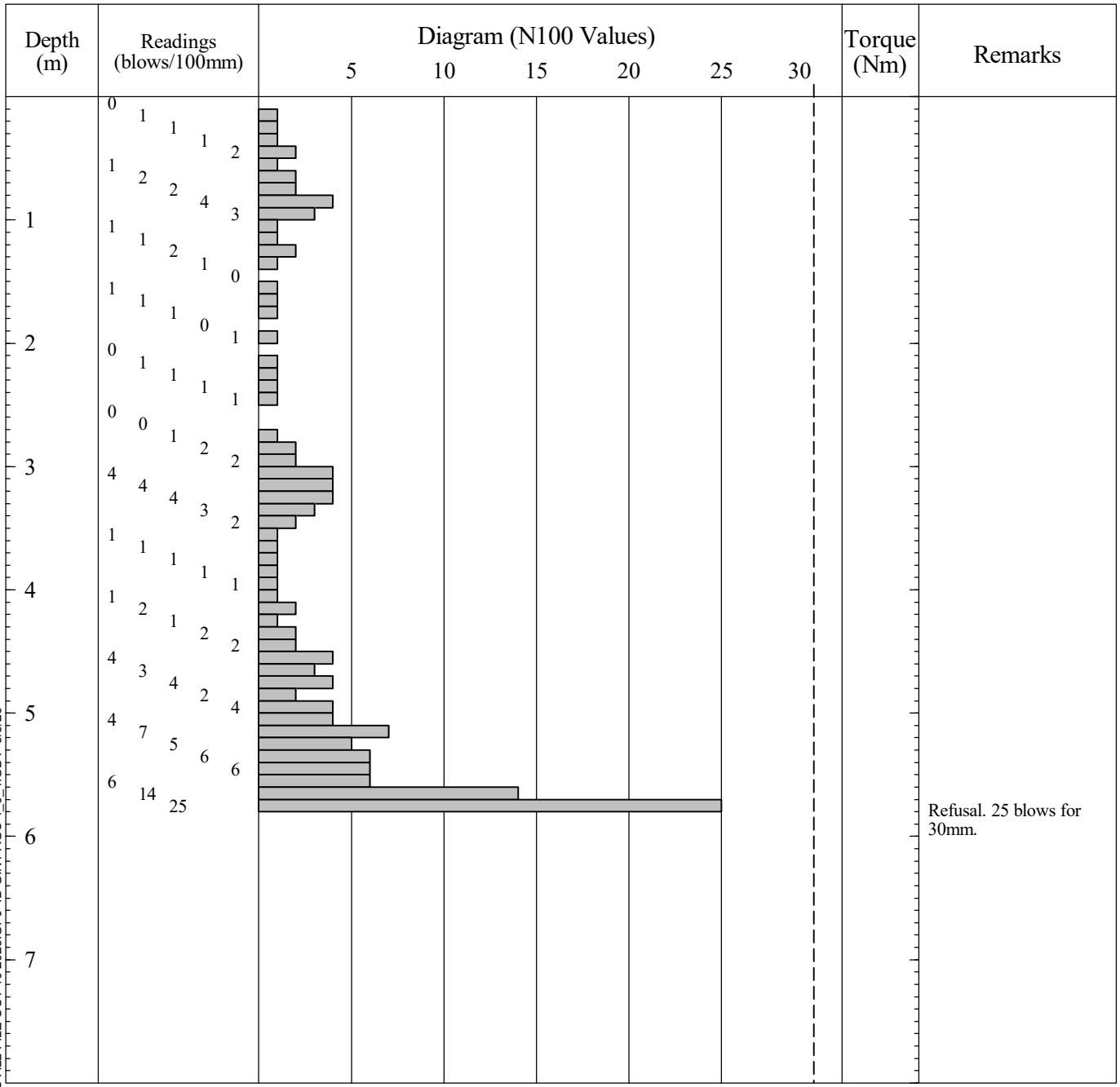
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M035A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	31.66	E 528,262.1 N 819,173.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M036**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	24.69	E 528,847.5 N 818,628.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 2 2	5 10 15 20 25 30		
1	3 3 6 6 11			
2	11 14 14 25			Refusal. 25 blows for 50mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

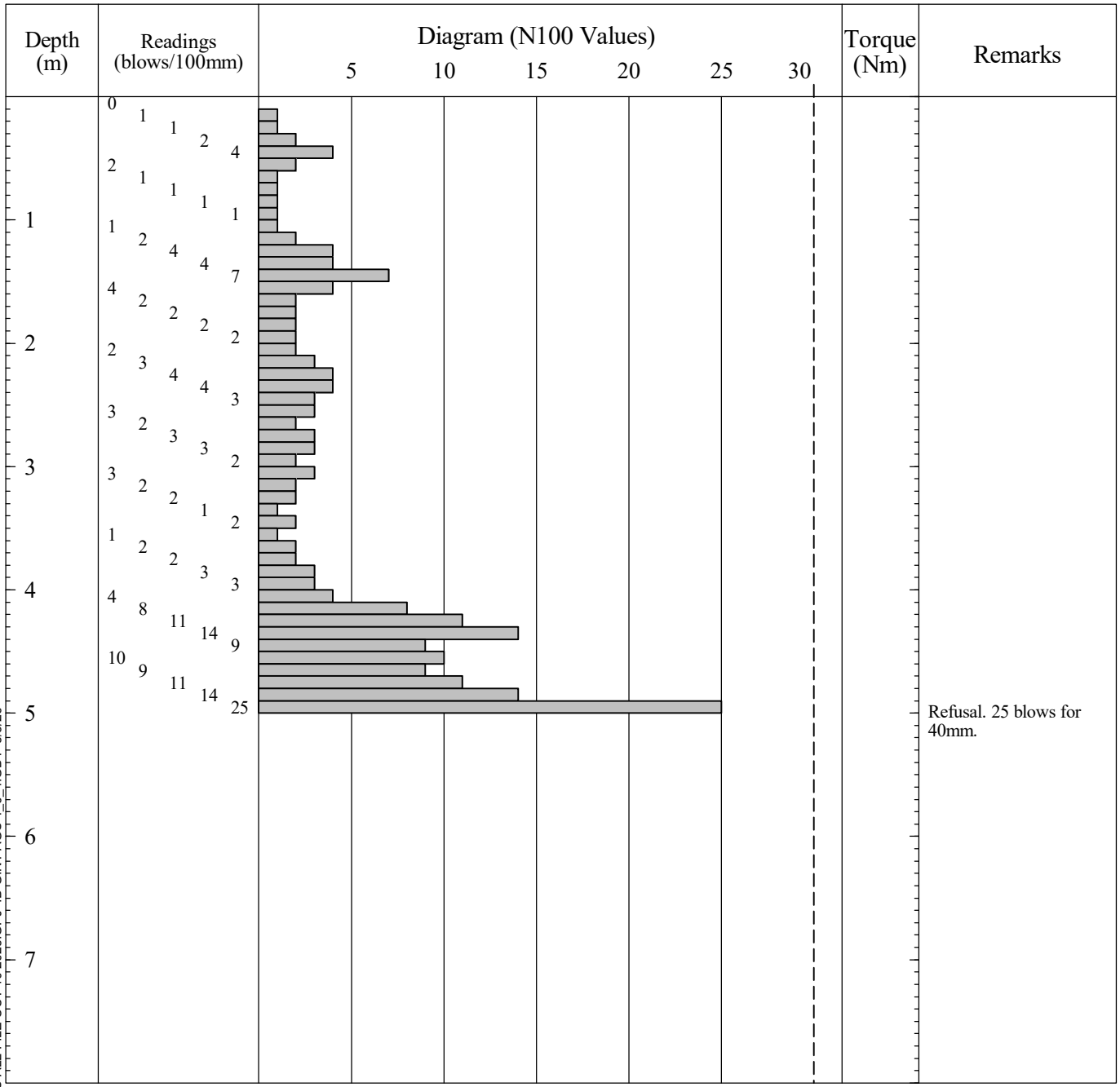
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M037**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	27.25	E 529,407.5 N 818,381.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

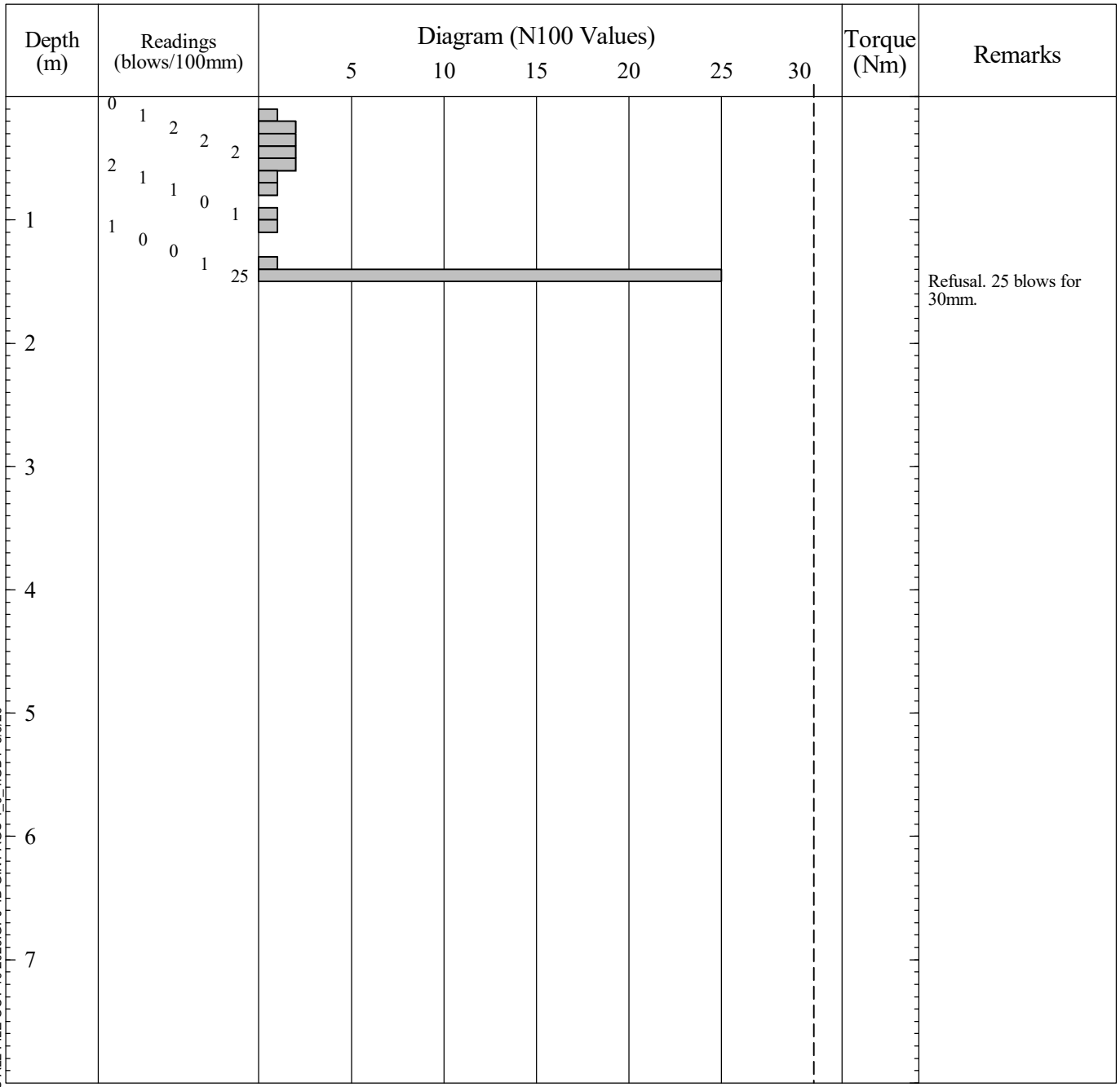
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M038**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	27.75	E 529,657.7 N 818,389.4

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M039**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	29.84	E 530,169.5 N 818,452.0

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 25	5 10 15 20 25 30		Refusal. 25 blows for 30mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M039A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	29.79	E 530,171.3 N 818,450.1

Engineer: Atkins Realis

Sheet 1 of 1

Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0			
0.10	1			
0.20	11			
0.30	15			
0.40	15			
0.50	25			Refusal. 25 blows for 20mm.

Diagram (N100 Values): 5, 10, 15, 20, 25, 30

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

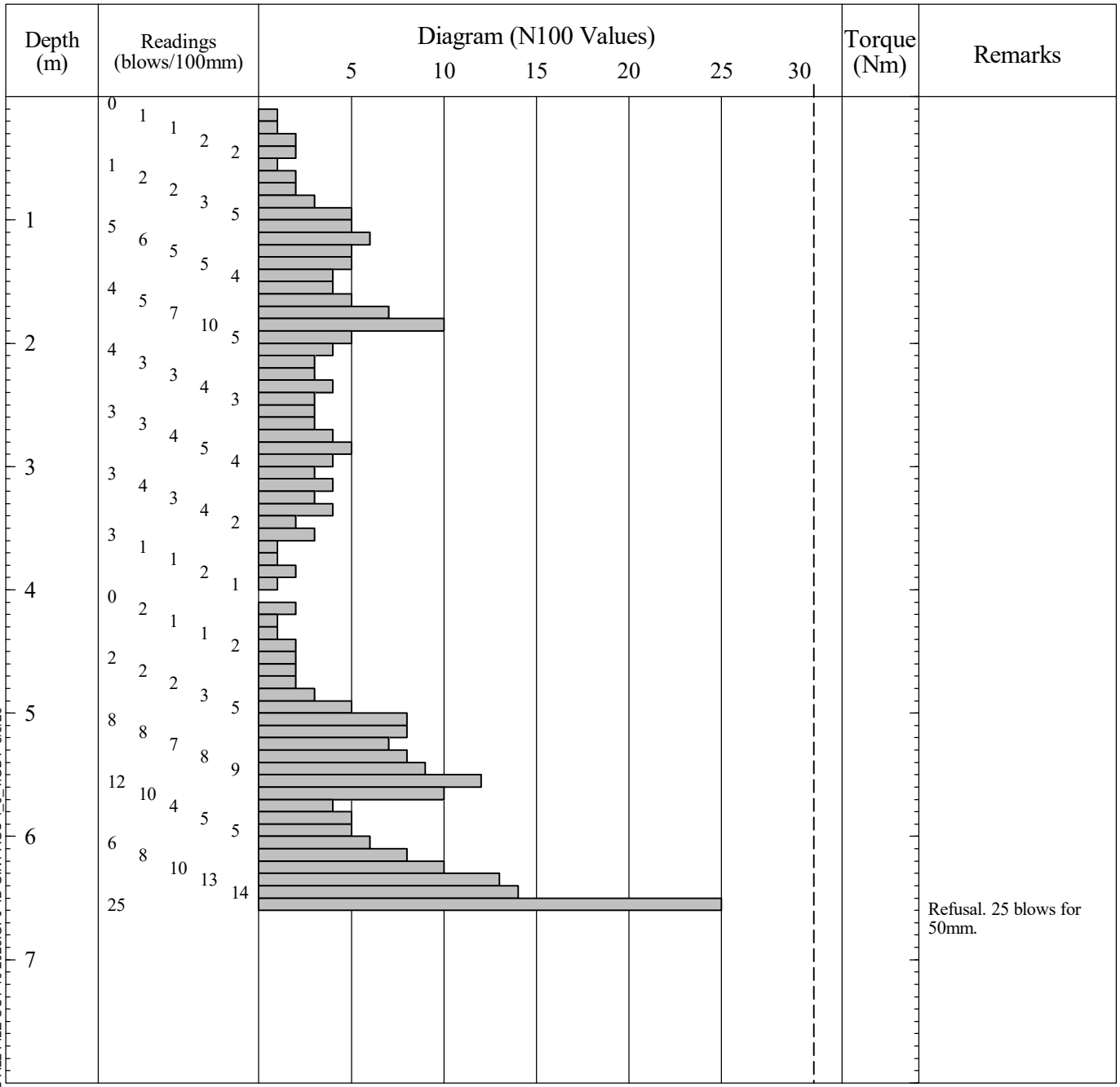
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M040**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	30.41	E 530,443.9 N 818,483.1

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 6.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M041**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	44.74	E 531,405.3 N 818,262.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 2 10 25	5 10 15 20 25 30		Refusal. 25 blows for 30mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

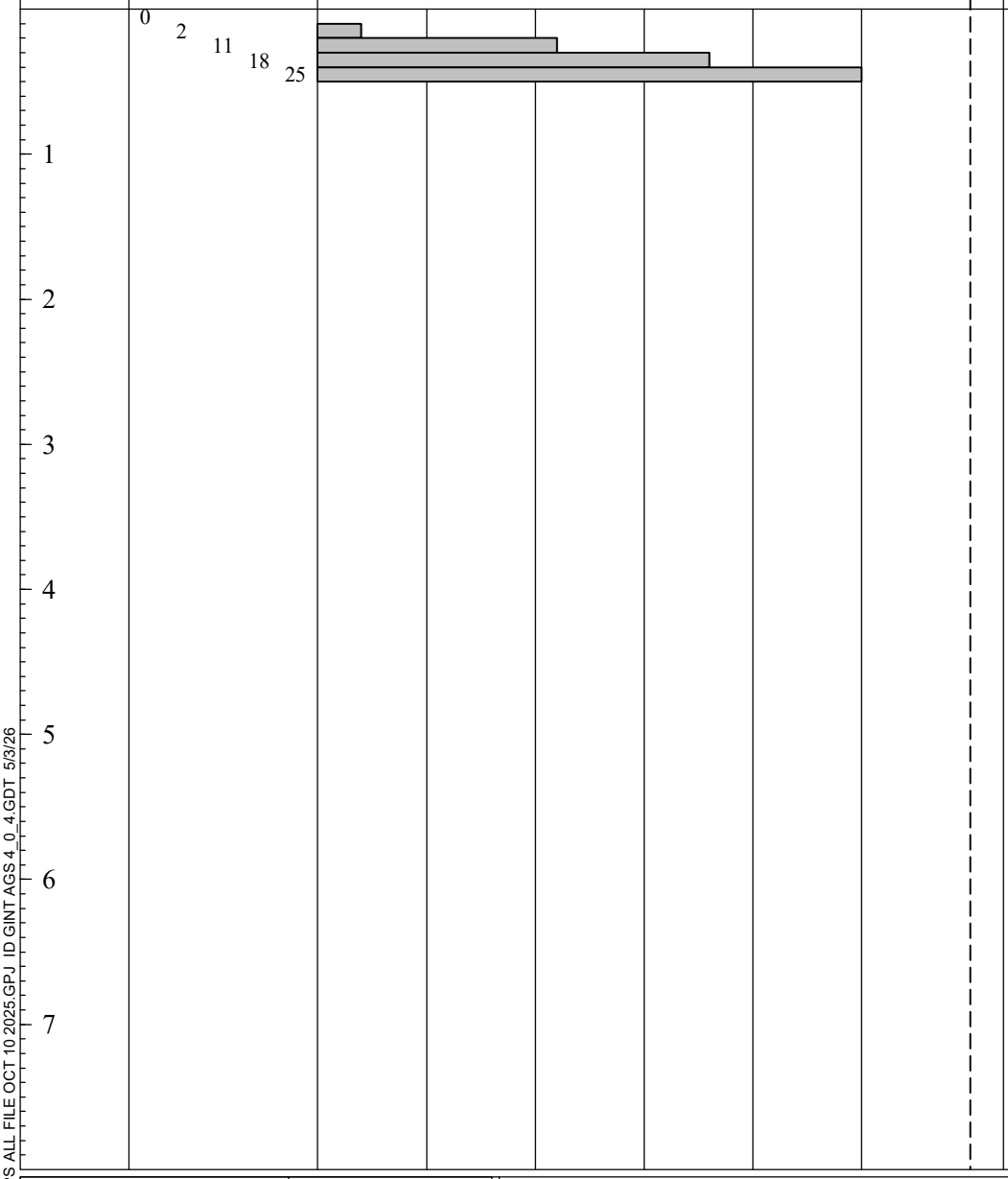
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M041A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	44.79	E 531,407.4 N 818,261.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	2	5 10 15 20 25 30		Refusal. 25 blows for 40mm.
1	11			
2	18			
3	25			
4				
5				
6				
7				



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M042**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	02-07-25 02-07-25	66.80	E 532,453.6 N 818,241.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 5 5			
1	7 6 3 5 7			
2	4 6 17 15 15			
3	10 14 12 25			Refusal. 25 blows for 45mm.
4				
5				
6				
7				

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

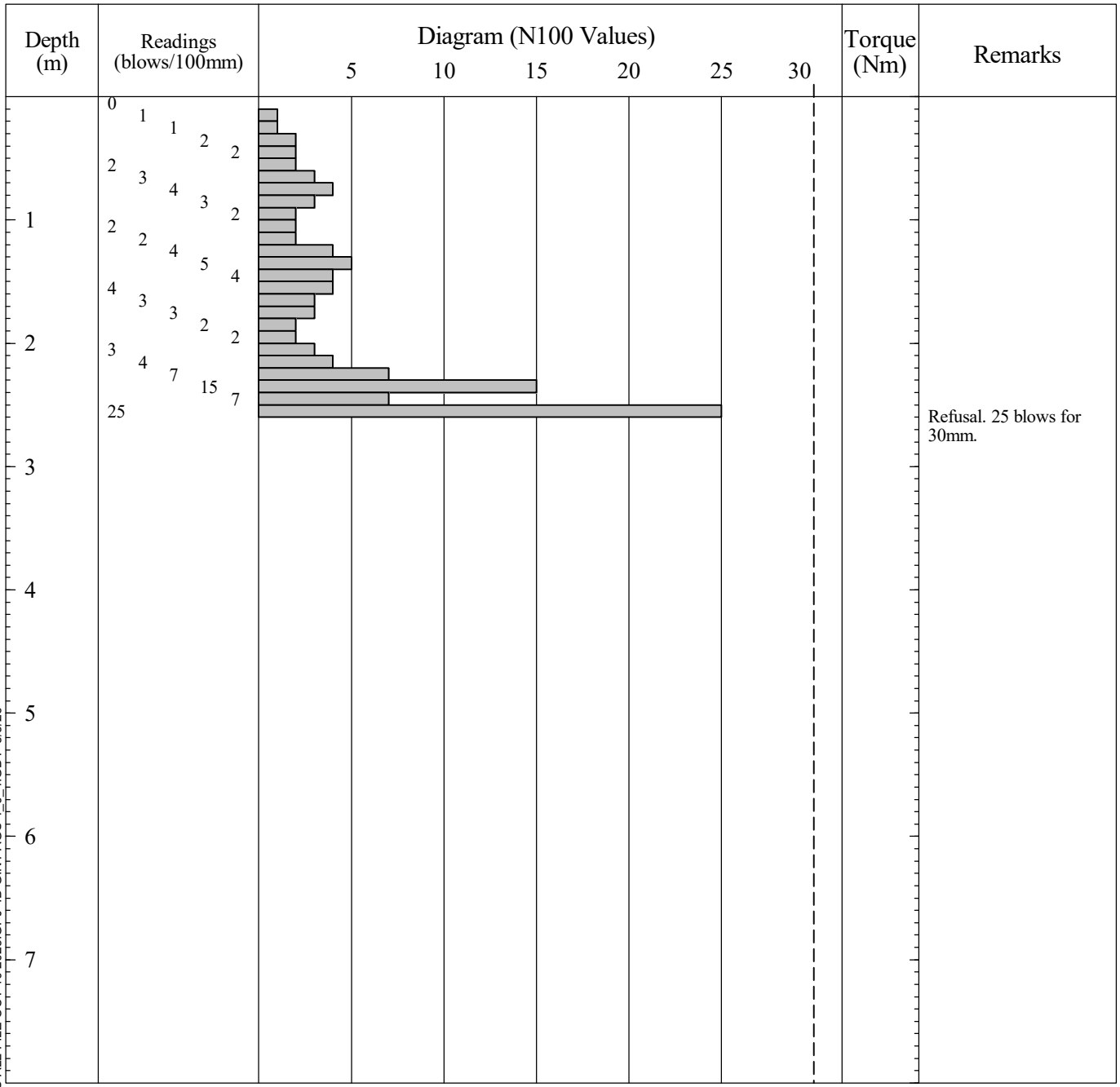
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M043**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	74.57	E 533,092.0 N 818,370.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M044**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	88.31	E 533,547.9 N 818,483.1

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0			
0.10	1			
0.20	3			
0.30	4			
0.40	5			
0.50	4			
0.60	5			
0.70	8			
0.80	15			
0.90	25			Refusal. 25 blows for 30mm.

Diagram (N100 Values): 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

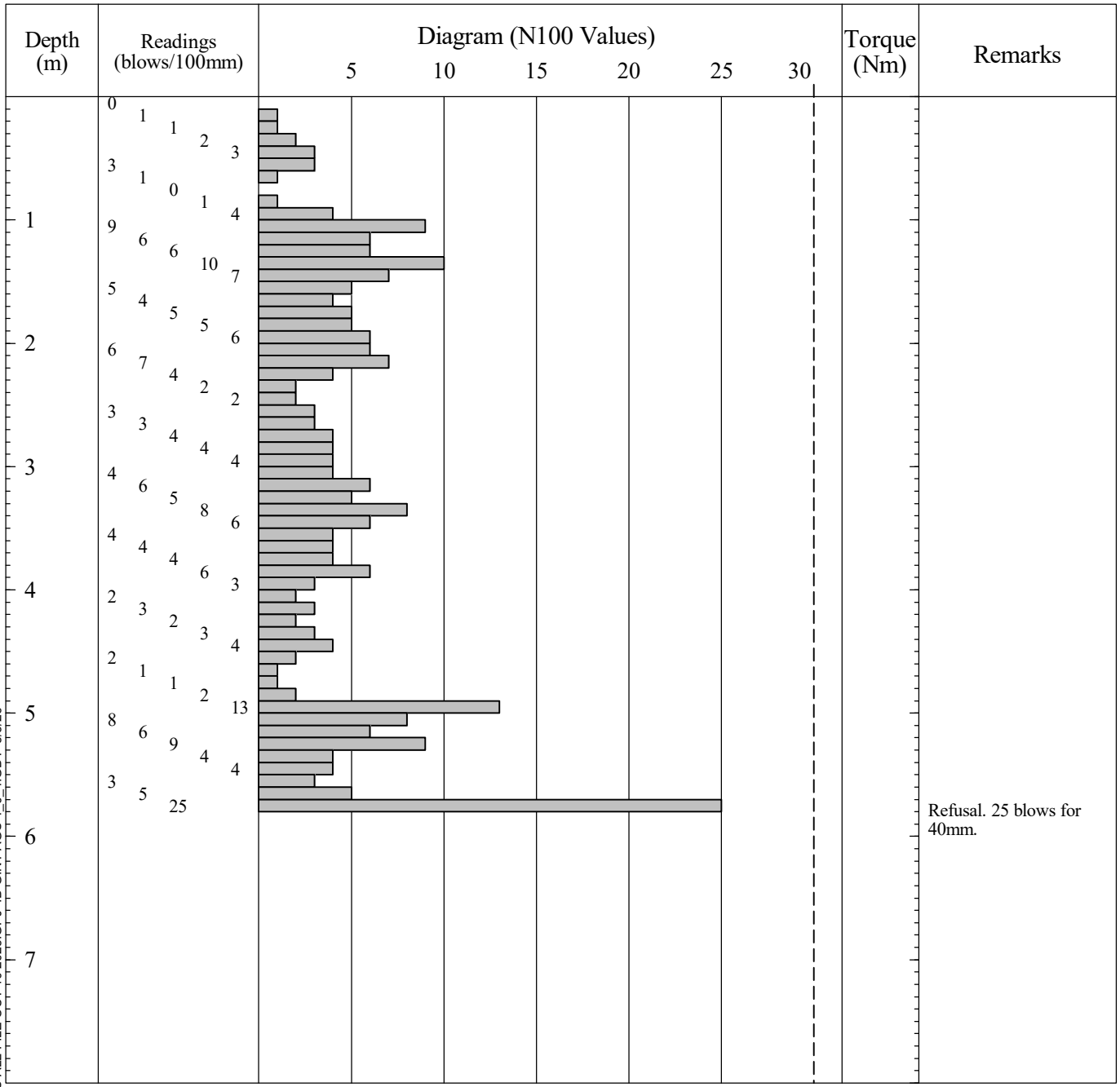
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M045**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	122.07	E 534,355.2 N 818,391.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M046**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	143.29	E 535,021.6 N 818,230.1

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	3 4 5 2	5 10 15 20 25 30		
1	1 1 1 1 2			
1	10 13 20 25			Refusal. 25 blows for 30mm.
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M047**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	144.16	E 535,070.5 N 818,218.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 0 0 0			
1	0 0 1 0			
2	1 1 2 7			Refusal. 25 blows for 40mm.
3	17 25			
4				
5				
6				
7				

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M048**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	145.87	E 535,150.6 N 818,199.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 1 6 25	5 10 15 20 25 30		Refusal. 25 blows for 35mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M048A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	145.91	E 535,152.4 N 818,198.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 1 9 25	5 10 15 20 25 30		Refusal. 25 blows for 30mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M049**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	172.39	E 535,664.1 N 817,957.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 0 0 0 0	5 10 15 20 25 30		
1	0 0 0 0 0			
2	0 0 0 0 0			
3	2 3 10 25			Refusal. 25 blows for 0mm.
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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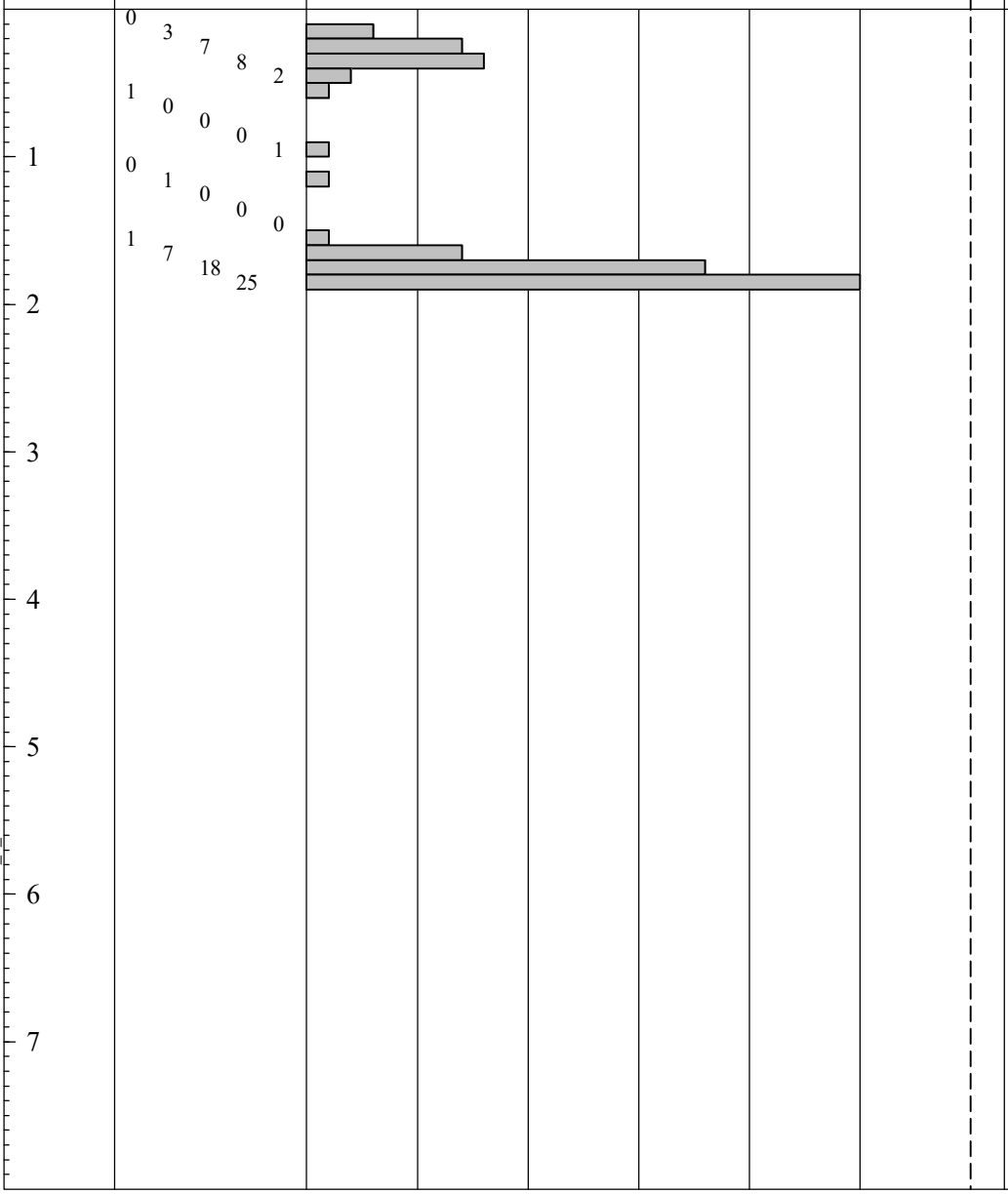
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M050**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	175.40	E 535,990.9 N 817,754.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	3 7 8 2			
1	0 0 0 1			
0	1 0 0 0			
1	7 18 25			Refusal. 25 blows for 20mm.



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

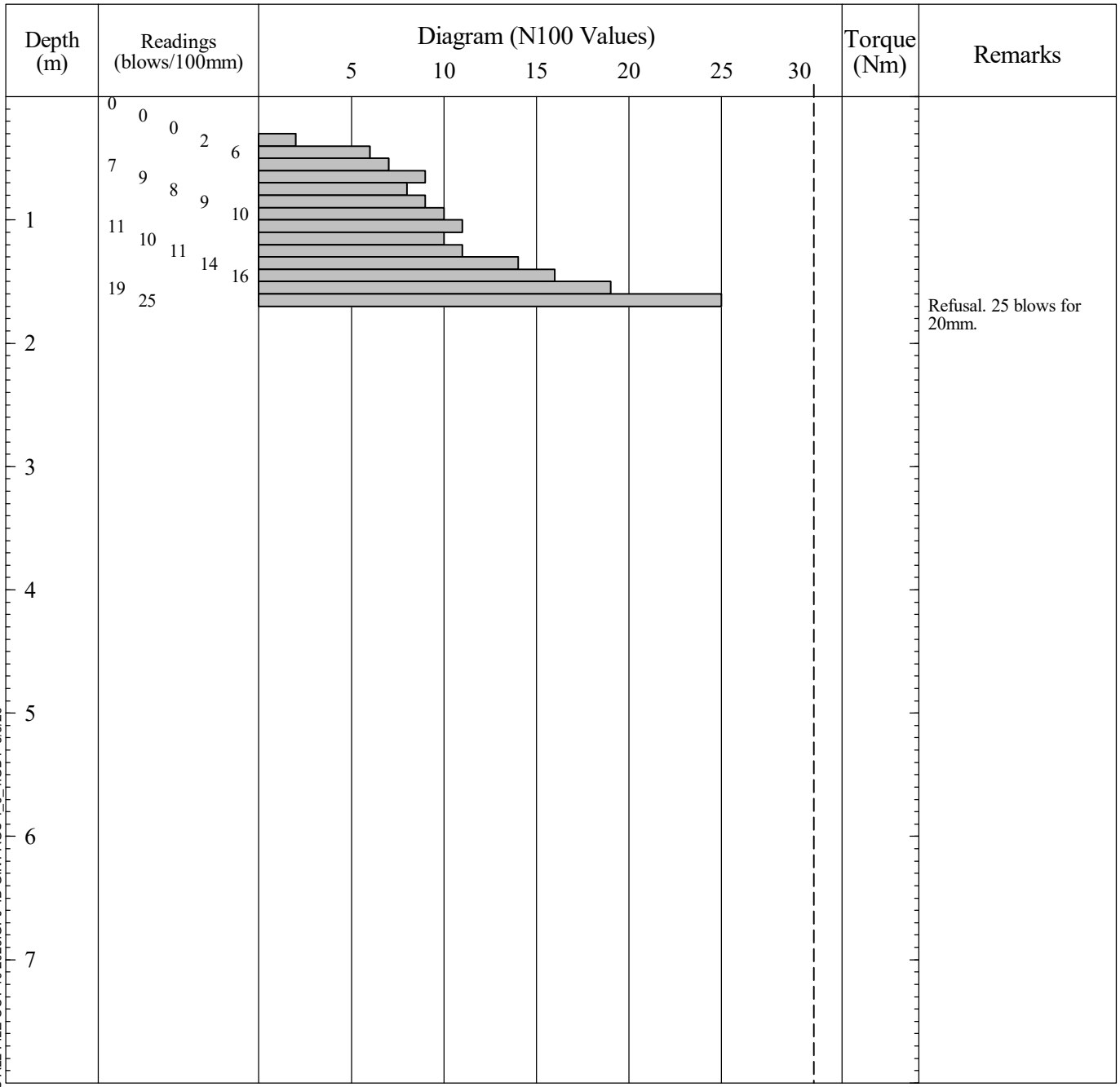
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M051**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	175.95	E 536,148.5 N 817,664.1

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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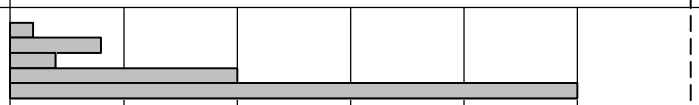
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M052**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	182.99	E 536,484.9 N 817,674.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0			
0.10	1			
0.20	4			
0.30	2			
0.40	10			
0.50	25			Refusal. 25 blows for 0mm.



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

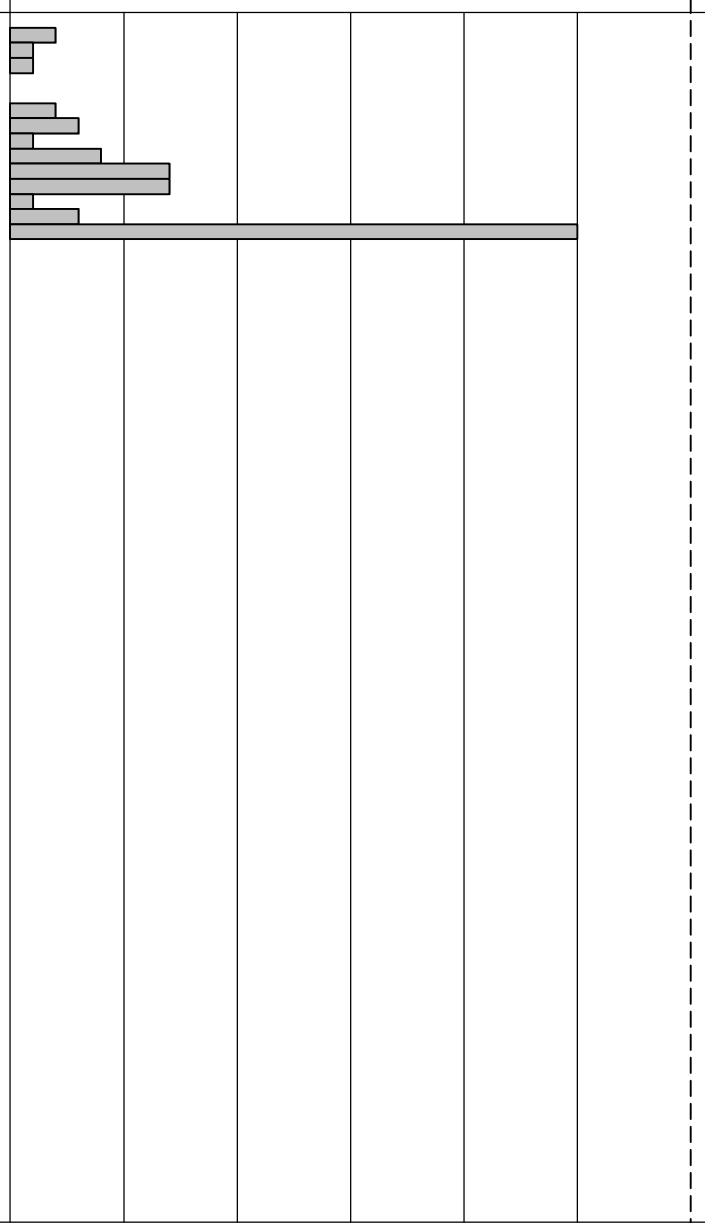
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M053**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	182.99	E 536,484.9 N 817,674.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 2 1 1 0			
1	0 2 3 1 4			
2	7 7 1 3 25			Refusal. 25 blows for 10mm.
3				
4				
5				
6				
7				



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M054**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	187.10	E 536,715.1 N 817,512.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0 1 0 1 0			
0.50	0 1 0 1 0			
1.00	1 0 0 0 0			
1.50	0 1 0 0 0			
2.00	0 0 7 6 3			
2.50	7 20 25			Refusal. 25 blows for 10mm.

Diagram (N100 Values): 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M055**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	190.24	E 536,743.2 N 817,405.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 0 0 0 0	5 10 15 20 25 30		
1	0 0 0 0 0			
2	0 0 0 0 1			Refusal. 25 blows for 35mm.
3	1 1 3 9 15			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

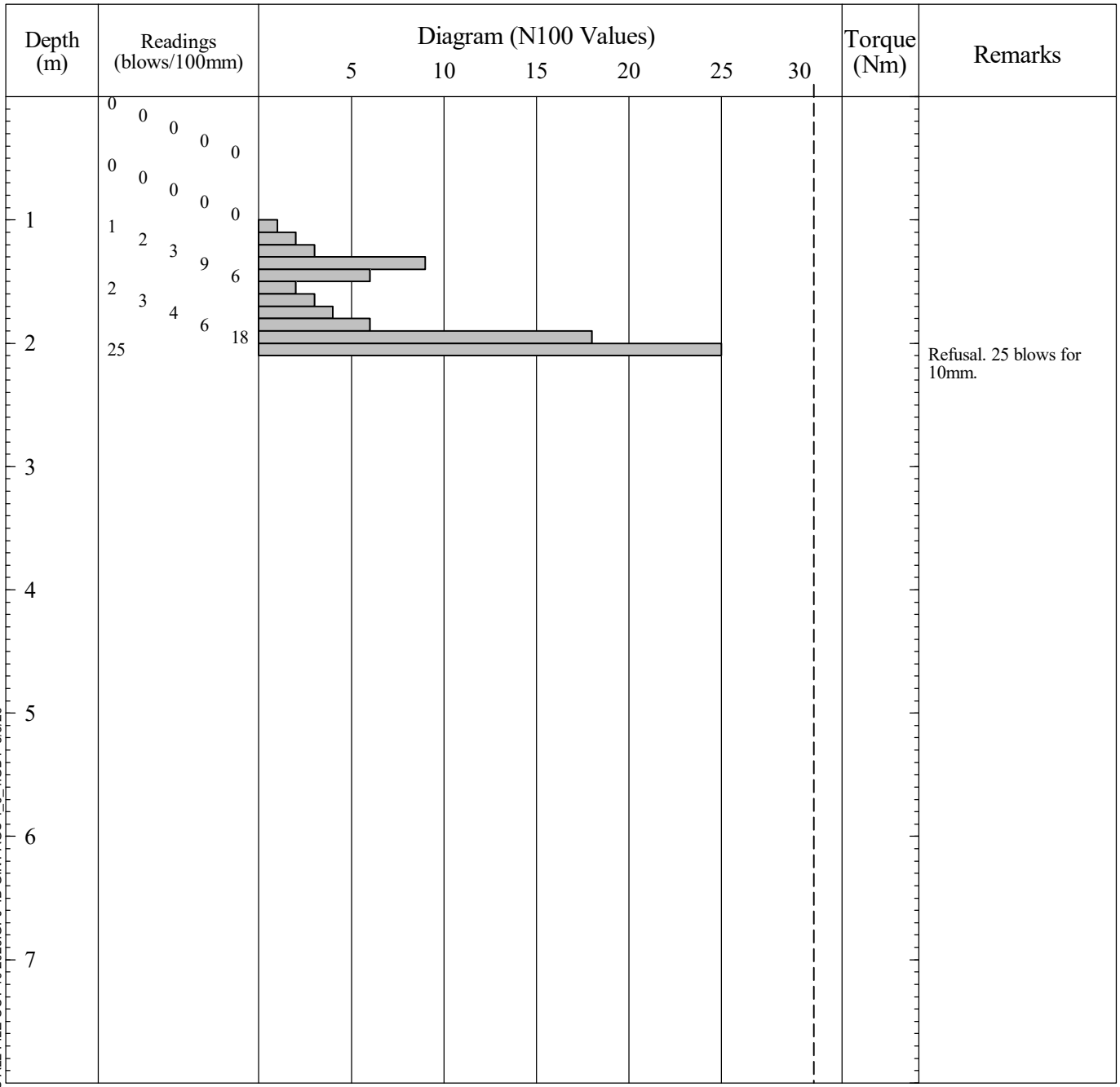
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M056**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	190.42	E 536,845.8 N 817,237.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

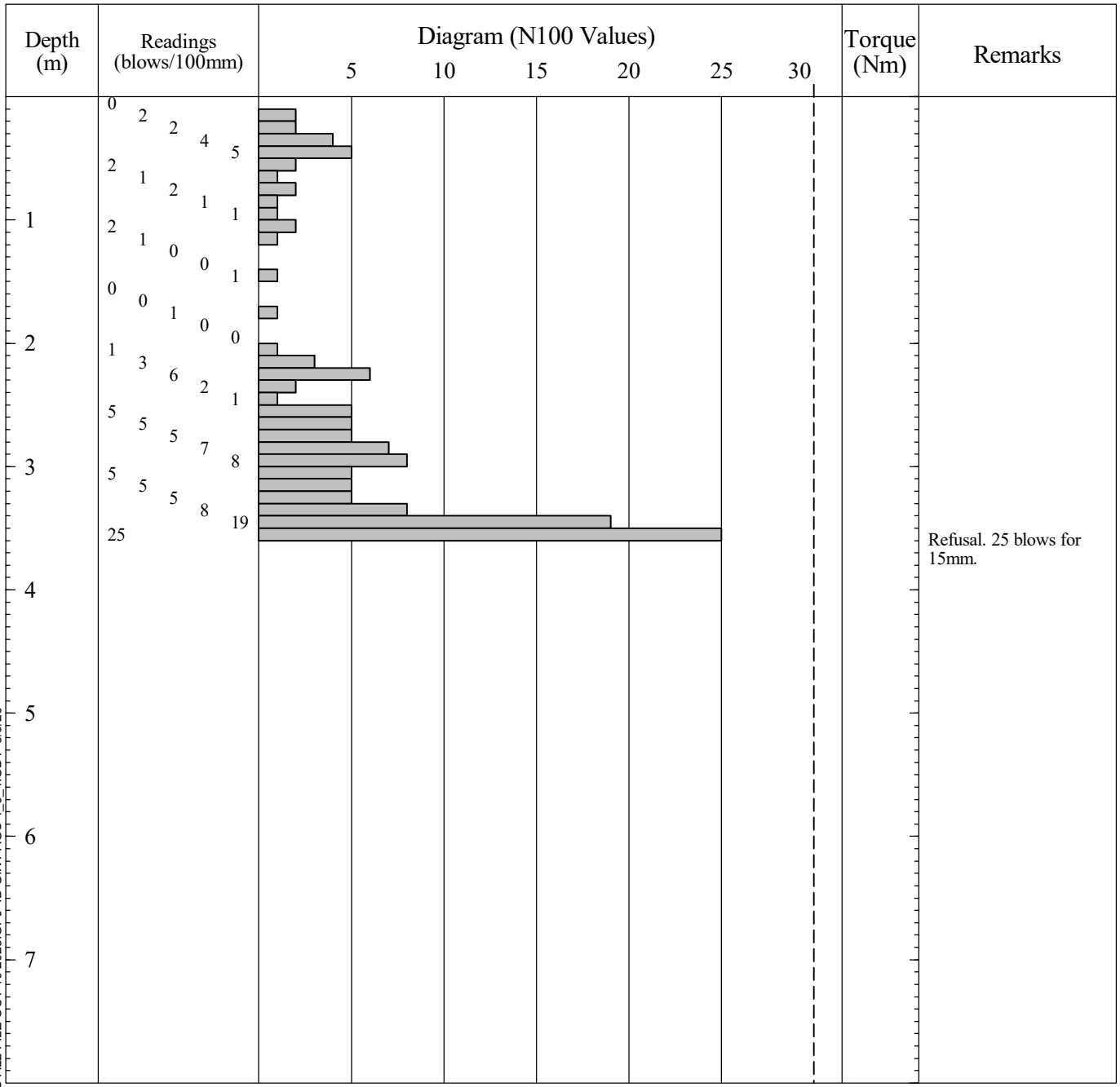
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M057**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	182.04	E 537,130.4 N 816,900.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

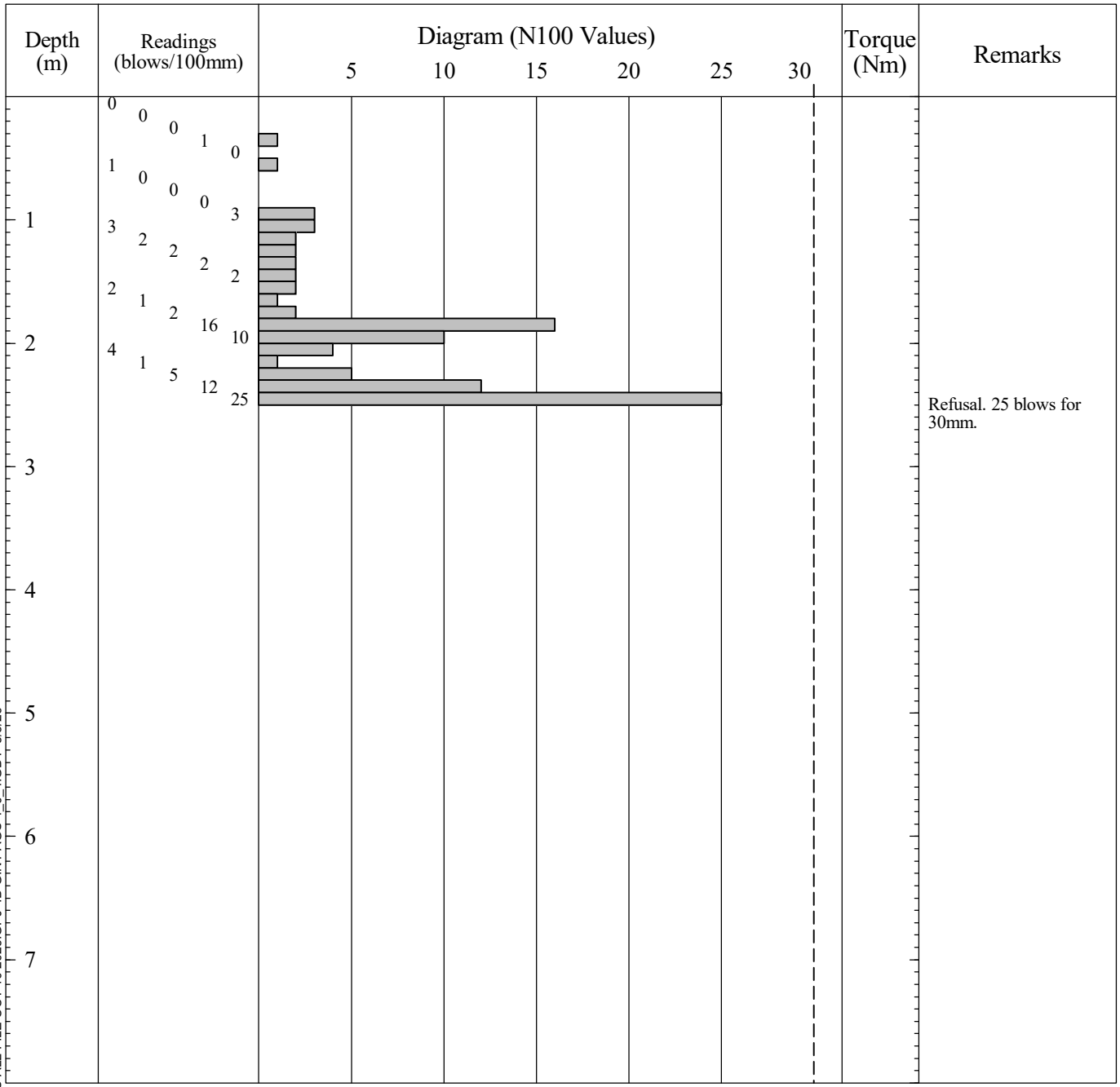
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M058**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	181.26	E 537,179.8 N 816,821.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M059**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	177.97	E 537,246.3 N 816,724.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 8 3 2	5 10 15 20 25 30		
1	1 2 3 1 1			
2	1 0 4 7 12			Refusal. 25 blows for 35mm.
3	25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

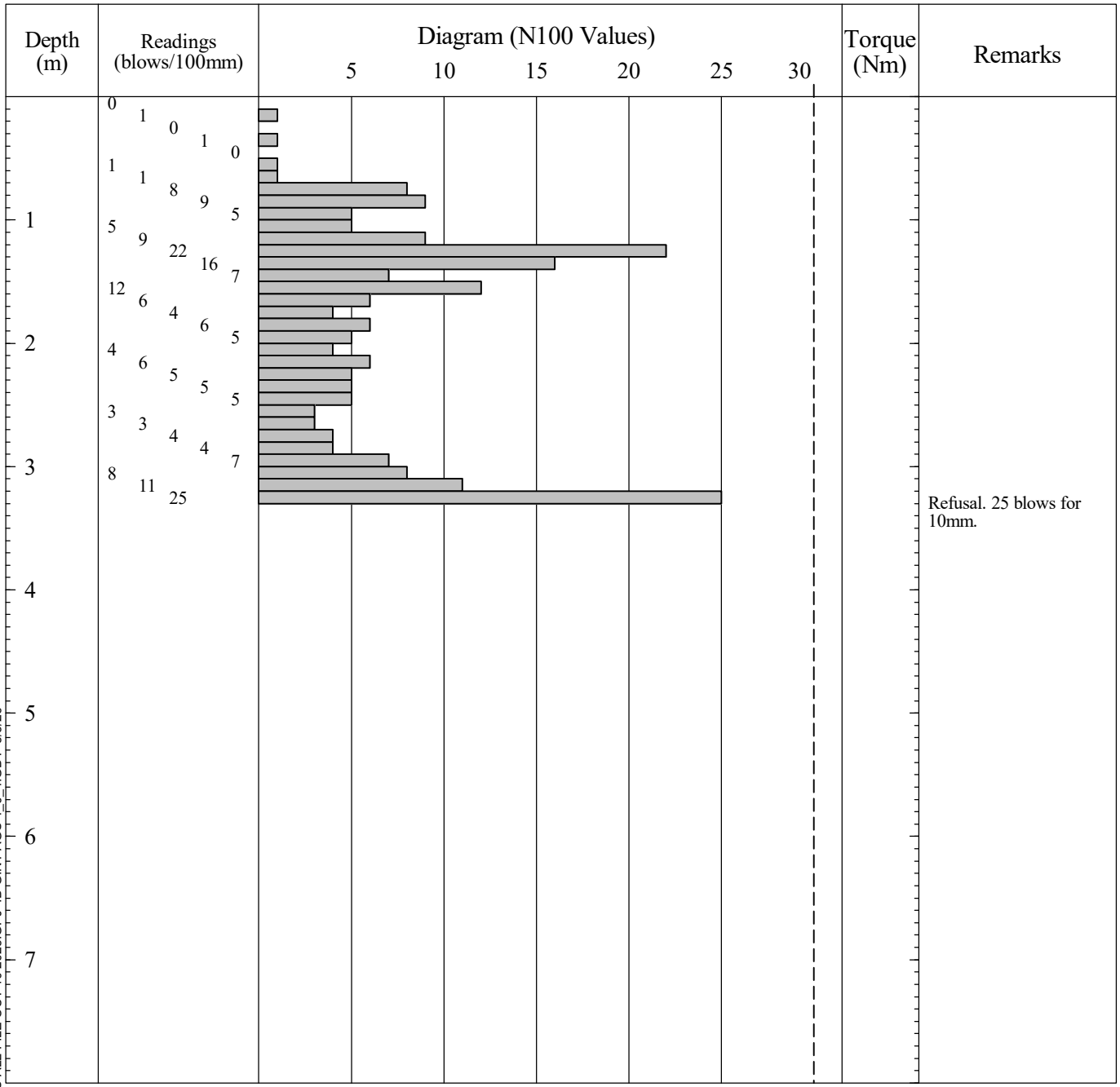
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M060**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	176.36	E 537,365.9 N 816,609.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

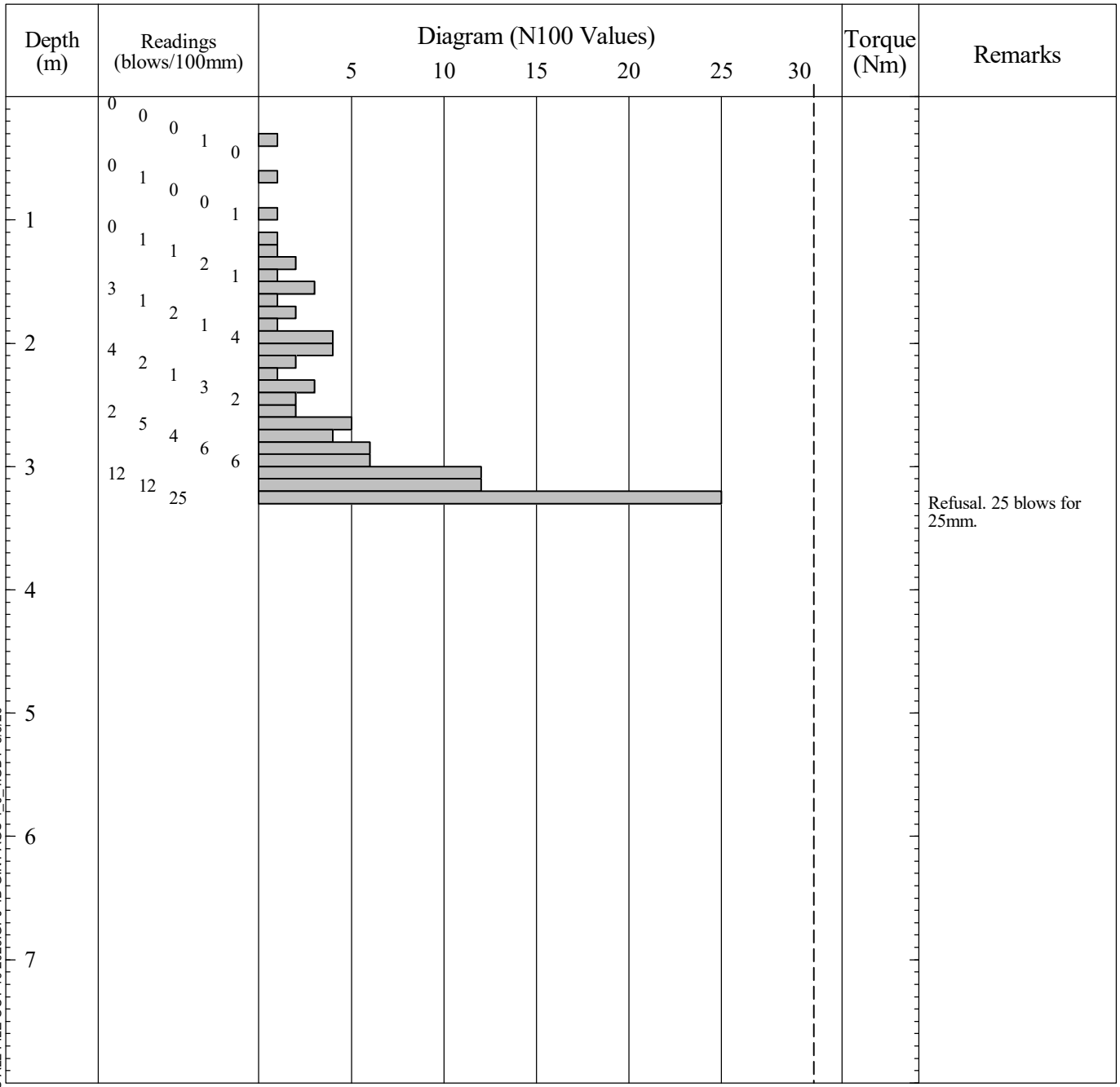
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M061**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	09-06-25 09-06-25	173.85	E 537,519.7 N 816,463.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M062**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	179.49	E 537,677.6 N 816,345.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 3 2	5 10 15 20 25 30		
1	1 0 1 1 3			
2	2 7 15 25			Refusal. 25 blows for 10mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M063**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	182.65	E 537,935.5 N 816,197.9

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1	5 10 15 20 25 30		
	10			
	11			
	25			Refusal. 25 blows for 15mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

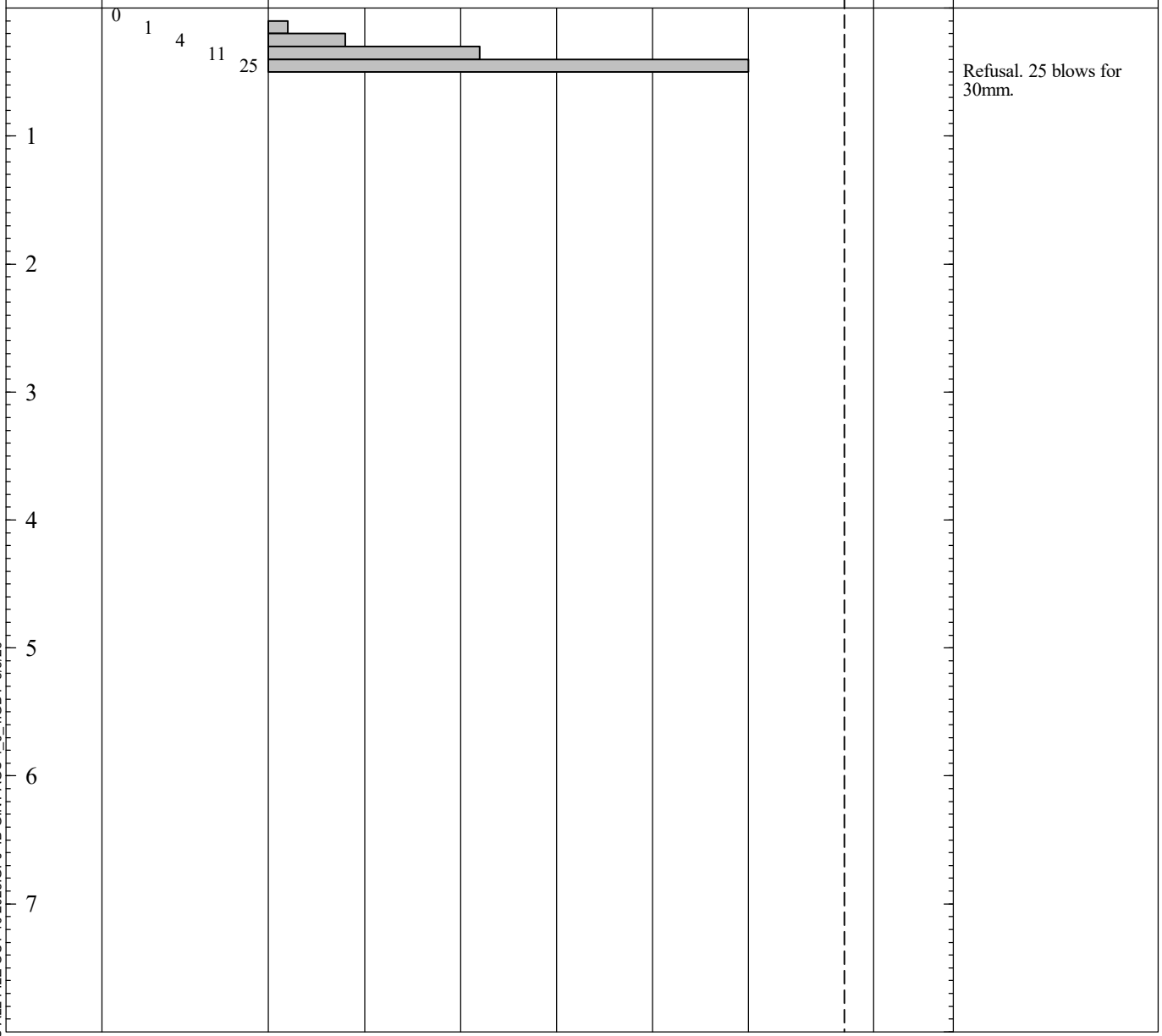
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M063A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	182.78	E 537,937.3 N 816,195.8

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 1 4 11 25	5 10 15 20 25 30		Refusal. 25 blows for 30mm.



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

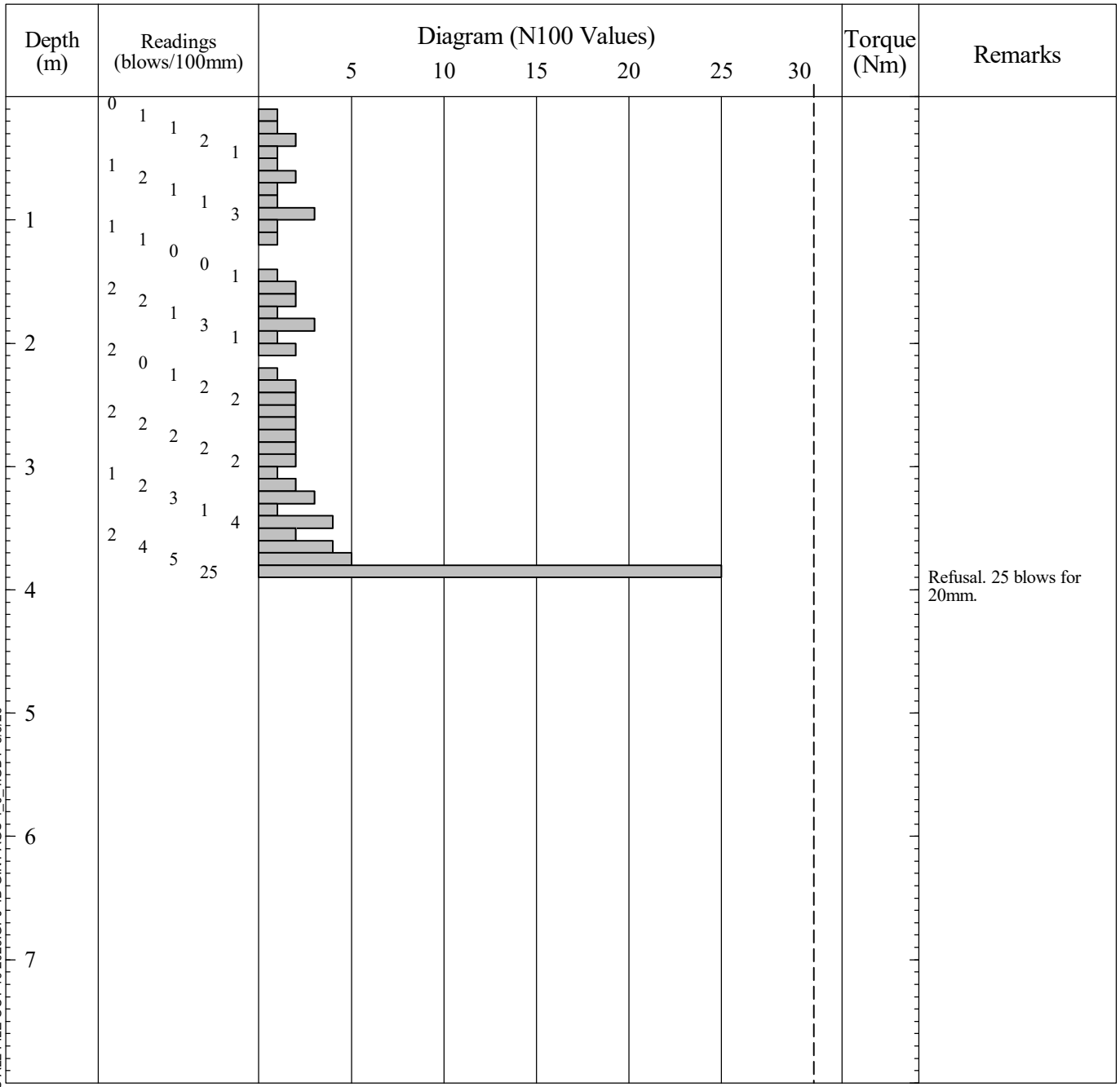
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M064**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	182.67	E 538,132.5 N 816,091.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M065**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	171.78	E 538,489.0 N 815,993.8

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 0 0 0	5 10 15 20 25 30		
1	1 5 5 4 2			
2	1 2 1 2 4			Refusal. 25 blows for 20mm.
3	7 15 25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

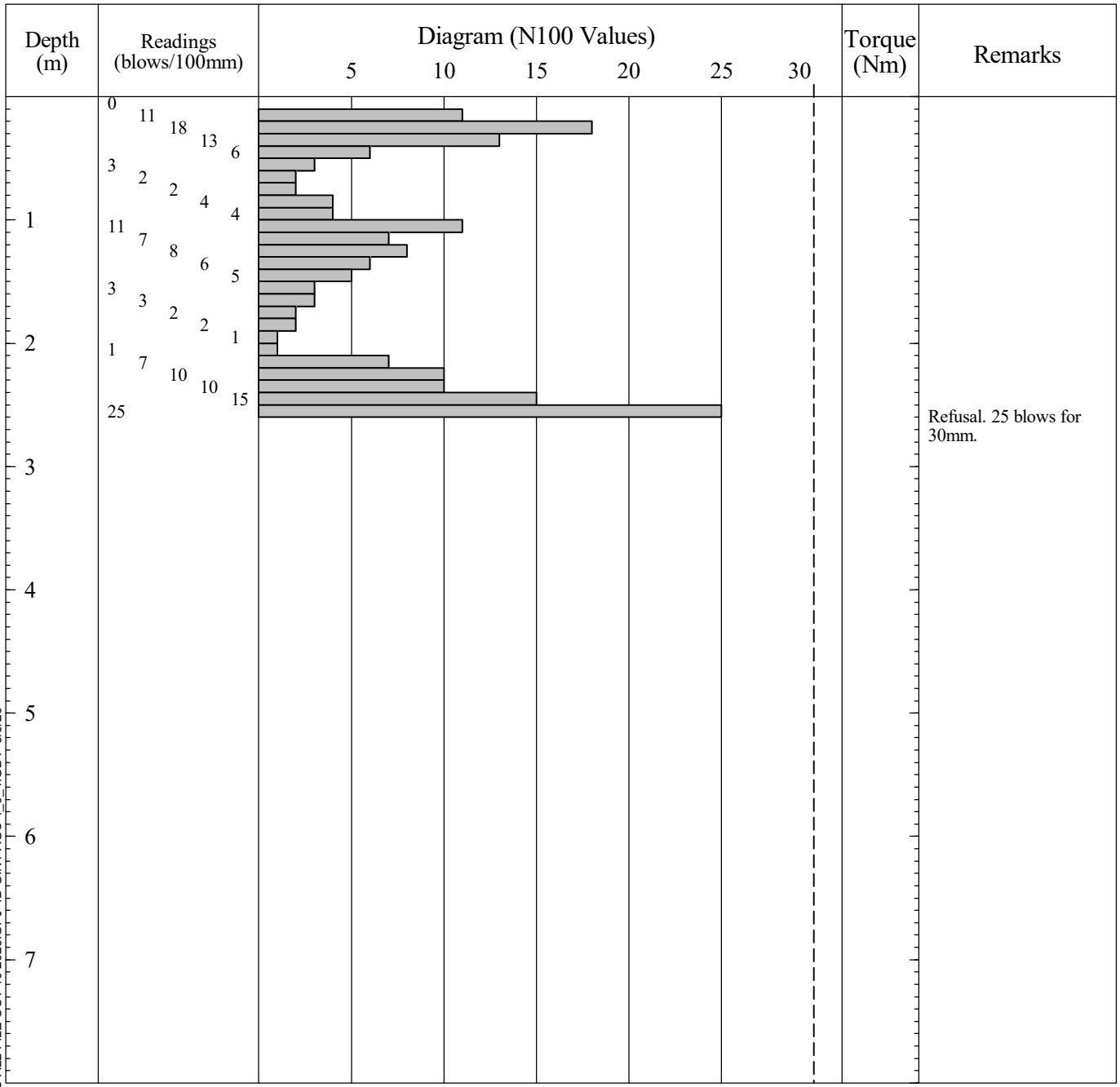
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M066**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	137.97	E 539,424.4 N 815,816.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M067**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	137.73	E 539,624.6 N 815,621.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 1 2			
1	2 6 8 8 8			
2	10 10 15 15 14			Refusal. 25 blows for 35mm.
3	18 11 25			
4				
5				
6				
7				

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M068**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	138.77	E 539,723.2 N 815,538.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 2 1			
1	2 32 3 1	32		
2	3 6 10 11 14			
3	10 14 19 25			Refusal. 25 blows for 10mm.
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

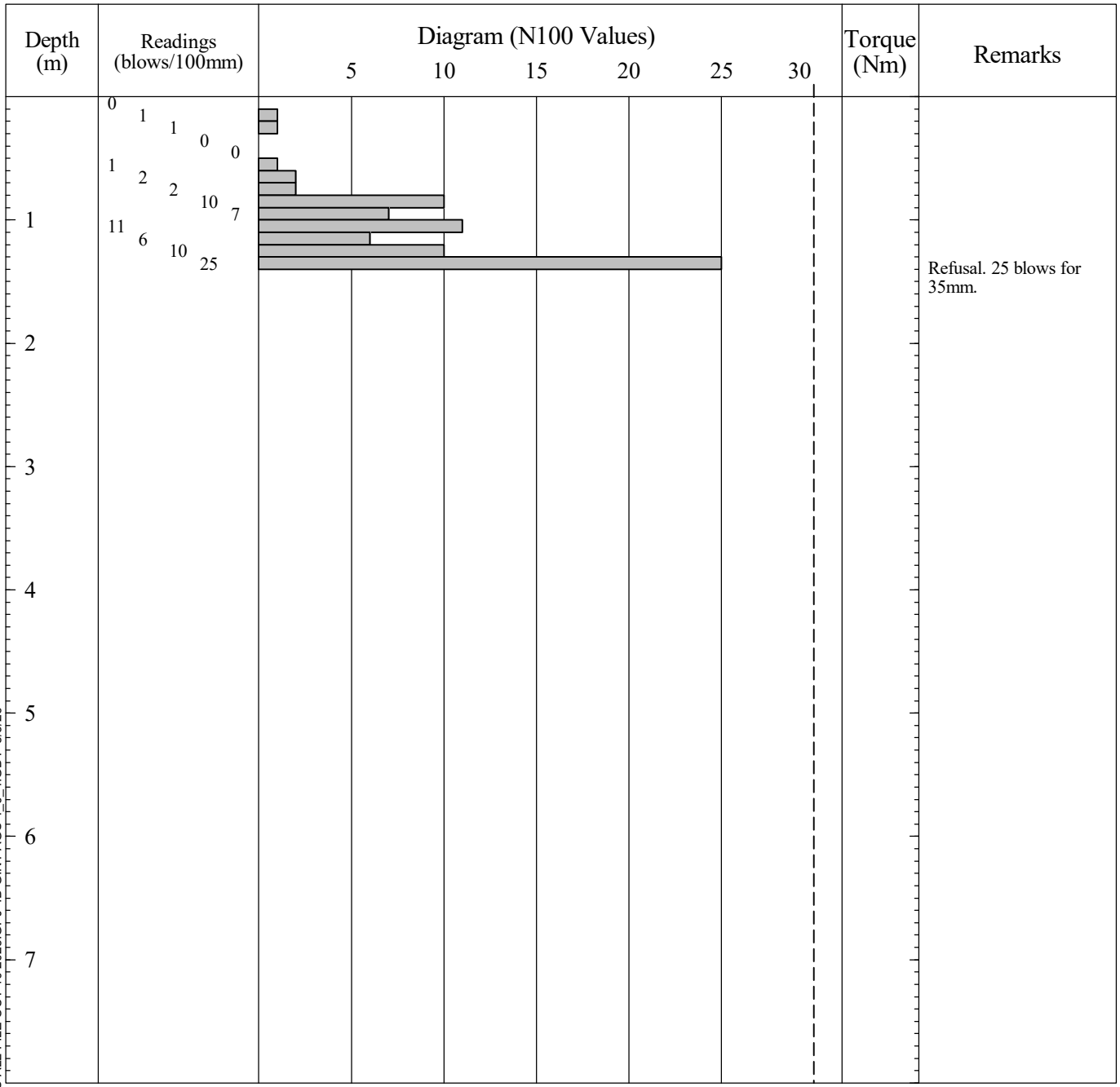
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M069**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	139.79	E 539,942.0 N 815,331.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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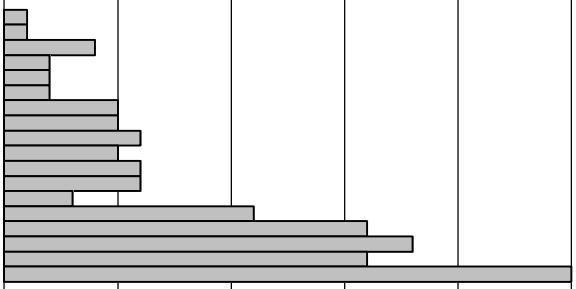
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M070**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	139.52	E 540,184.7 N 815,149.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 1 4 2			
1	2 2 5 5 6			
2	5 6 6 3 11			Refusal. 25 blows for 45mm.
	16 18 16 25			
3				
4				
5				
6				
7				



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M071**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	140.32	E 540,297.5 N 815,049.7

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 25	5 10 15 20 25 30		Refusal. 25 blows for 10mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M071A**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	140.68	E 540,299.7 N 815,050.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 10 10	5 10 15 20 25 30		
1	4 7 13 15 25			Refusal. 25 blows for 45mm.
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M072**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	12-06-25 12-06-25	142.47	E 540,555.2 N 814,831.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	4 12 10 4	5 10 15 20 25 30		
1	2 2 7 5 7			
2	11 11 9 15 25			Refusal. 25 blows for 55mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M073**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	34.77	E 522,185.5 N 825,890.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 4 4			
1	8 5 10 4 3			
2	2 2 1 2 1			
3	2 1 1 2 4			
	3 2 4 7 7			
	11 14 25			Refusal. 25 blows for 0mm.

Diagram (N100 Values): 5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

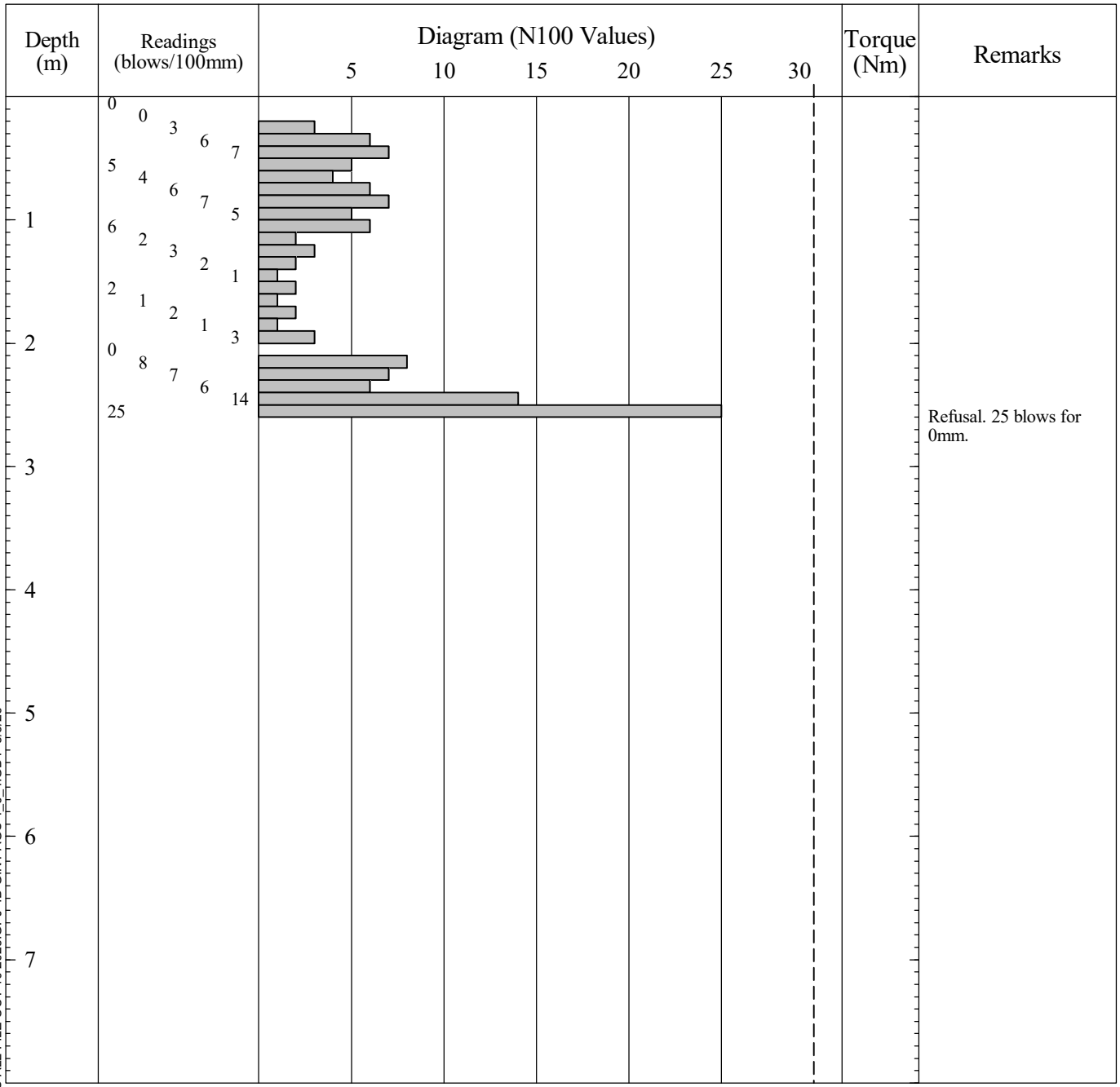
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M074**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	33.38	E 522,226.6 N 825,797.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M075**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	32.43	E 522,250.3 N 825,695.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 2 2			
1	3 3 7 4 3			
2	3 3 2 3 3			
3	1 1 1 2 1			
	2 2 3 4 4			
	5 3 8 22 17			
	24 25			Refusal. 25 blows for 0mm.

Diagram (N100 Values): 5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

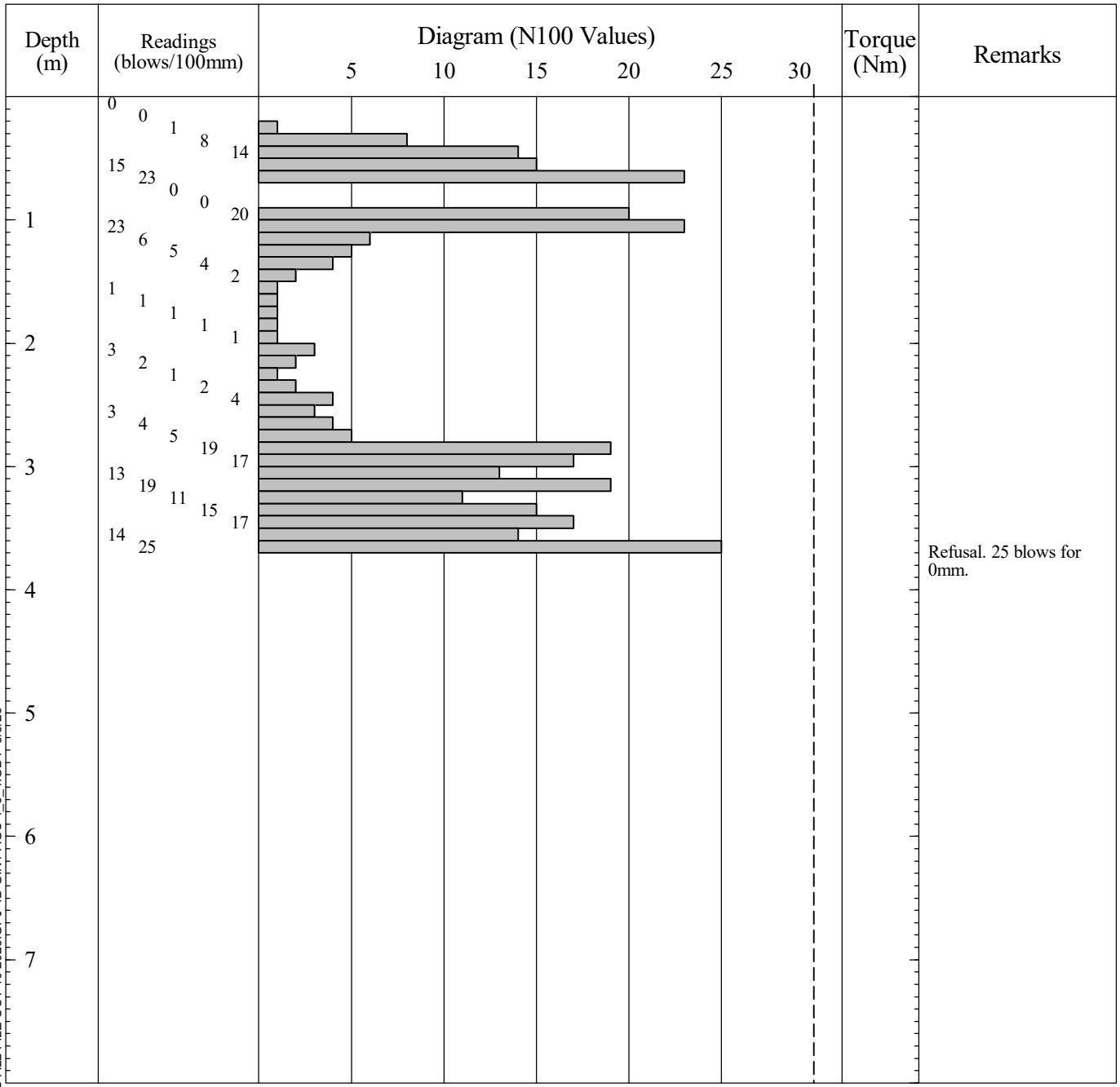
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M076**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	32.27	E 522,255.0 N 825,589.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

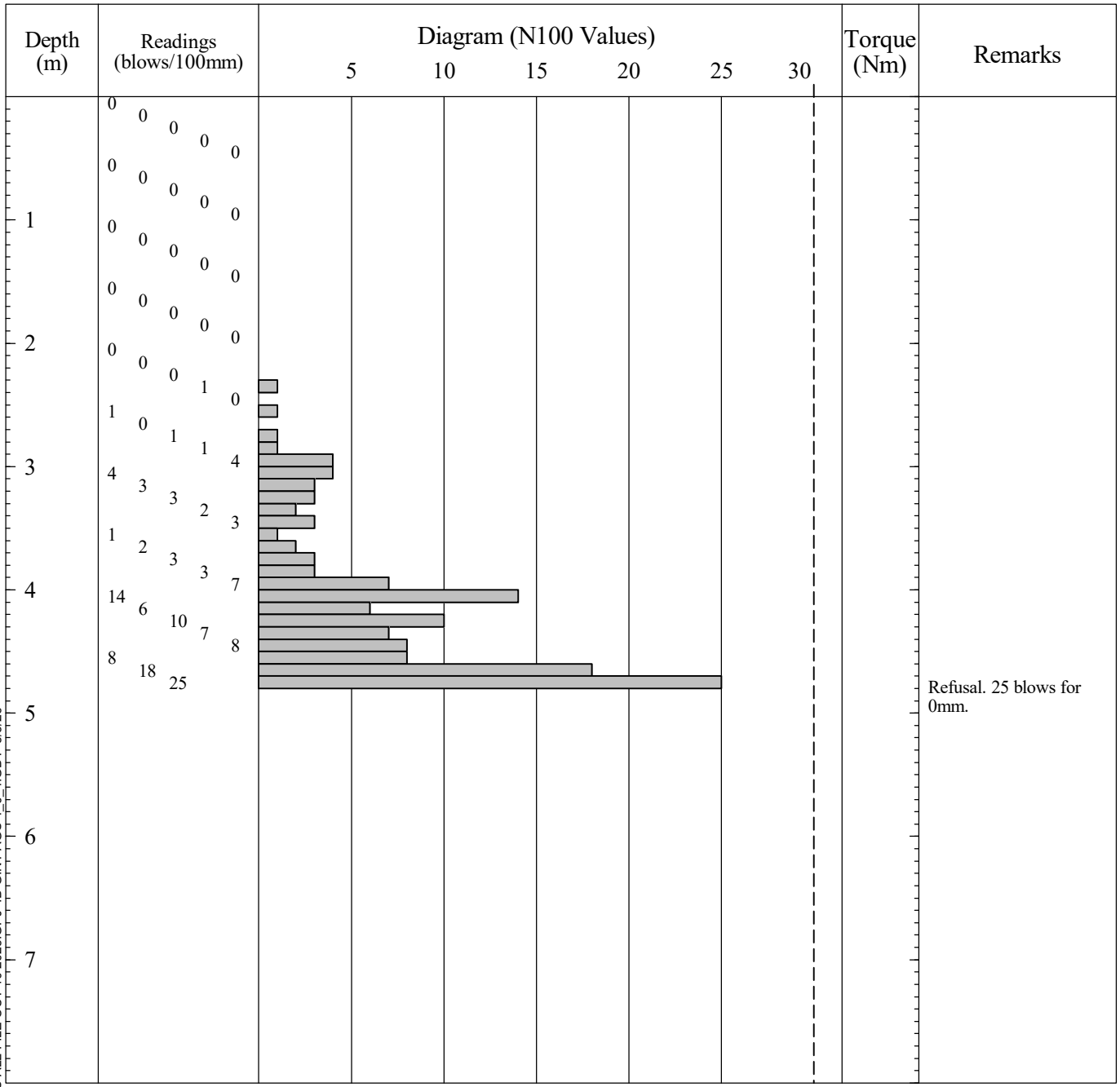
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M077**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	28.57	E 522,226.4 N 825,395.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

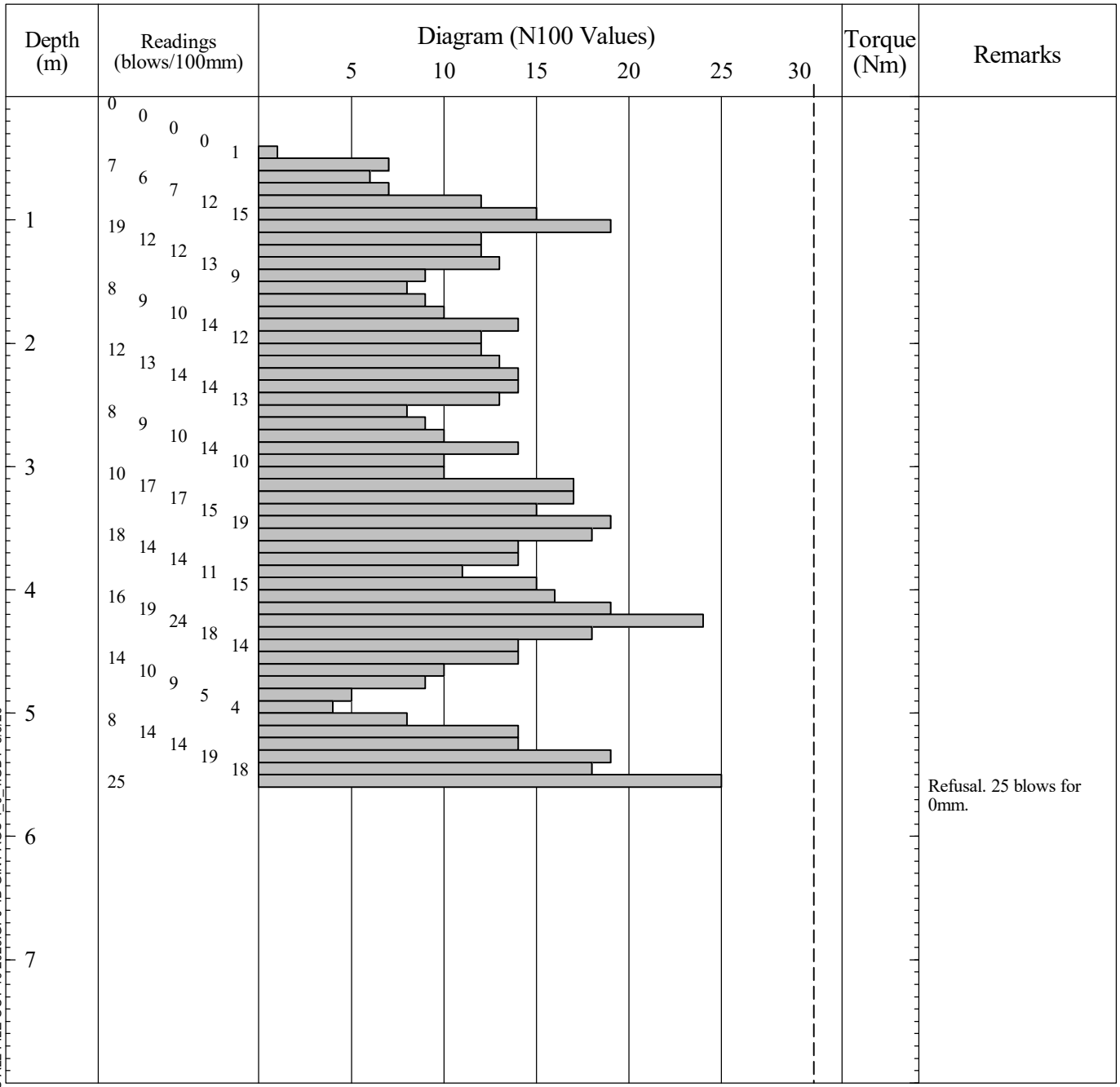
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M078**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	29.05	E 522,218.8 N 825,314.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

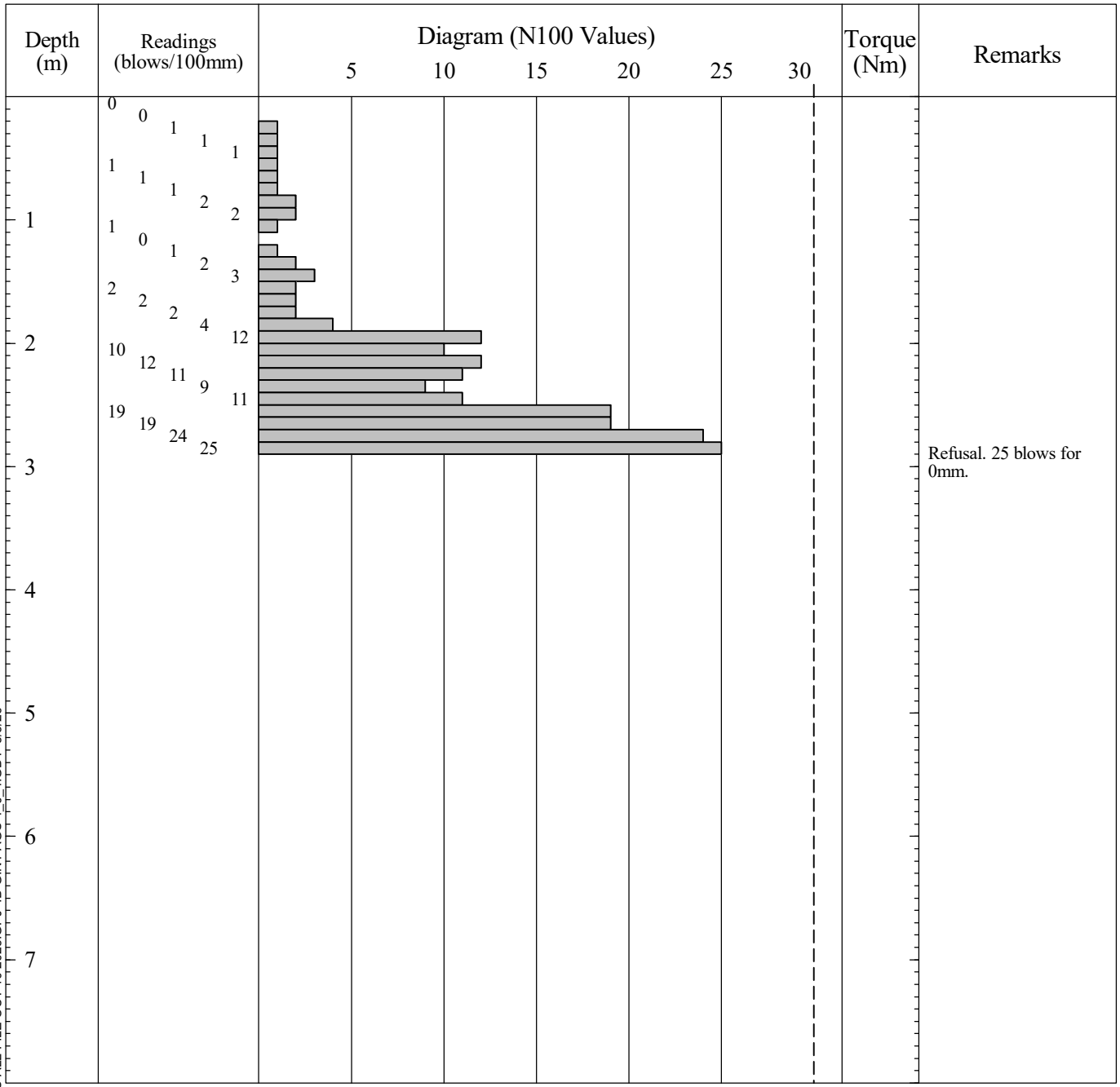
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M079**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	33.18	E 522,243.0 N 825,016.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M080**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	21-07-25 21-07-25	33.94	E 522,249.4 N 824,978.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 1 1	5 10 15 20 25 30		
1	1 1 0 0 2			
2	1 1 1 3 2			
	2 2 3 4 10			
	15 15 16 14 17			
3	21 18 18 22 25			Refusal. 25 blows for 0mm.
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M081**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	34.54	E 522,252.1 N 824,917.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0.00	0 0 0 0 1			
0.50	2 0 0 2 1 1			
1.00	3 2 1 0 1			
1.50	1 1 2 1 2			
2.00	11 5 3 3 2			
2.50	4 3 2 2 3			
3.00	4 3 4 3 3			
3.50	3 4 4 6 9			
4.00	11 10 25			Refusal. 25 blows for 0mm.

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

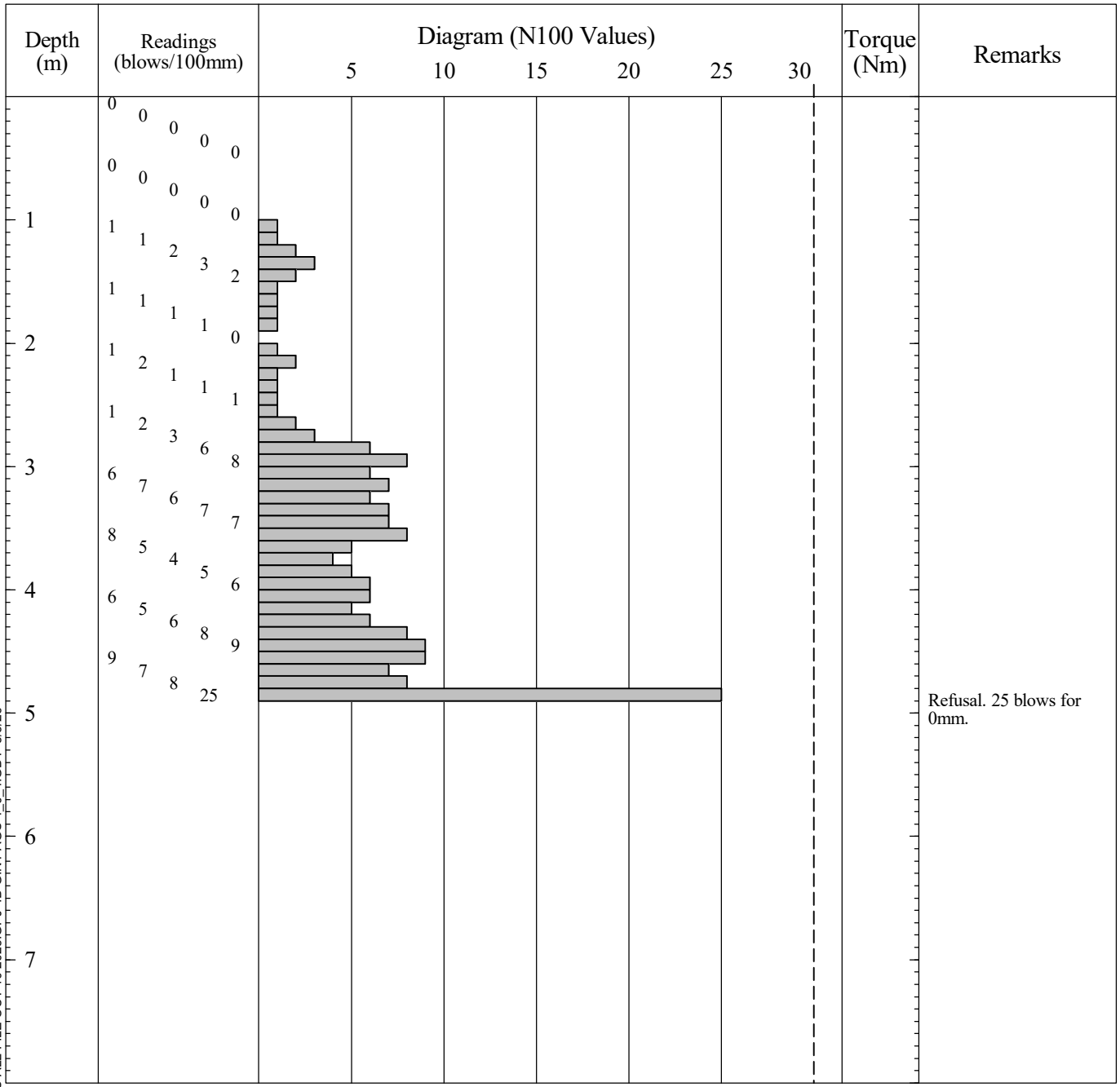
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M082**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	33.87	E 522,313.2 N 824,775.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M083**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	33.63	E 522,361.5 N 824,691.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
1	0 0 0 0 0			
2	0 0 0 0 1			
3	1 1 0 1 1			
4	1 1 2 1 0			
5	2 1 3 3 5			
6	5 4 7 14 15			
7	12 13 15 15 12			
	10 13 25			Refusal. 25 blows for 0mm.

5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M084**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	34.81	E 522,382.1 N 824,628.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 10 24 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

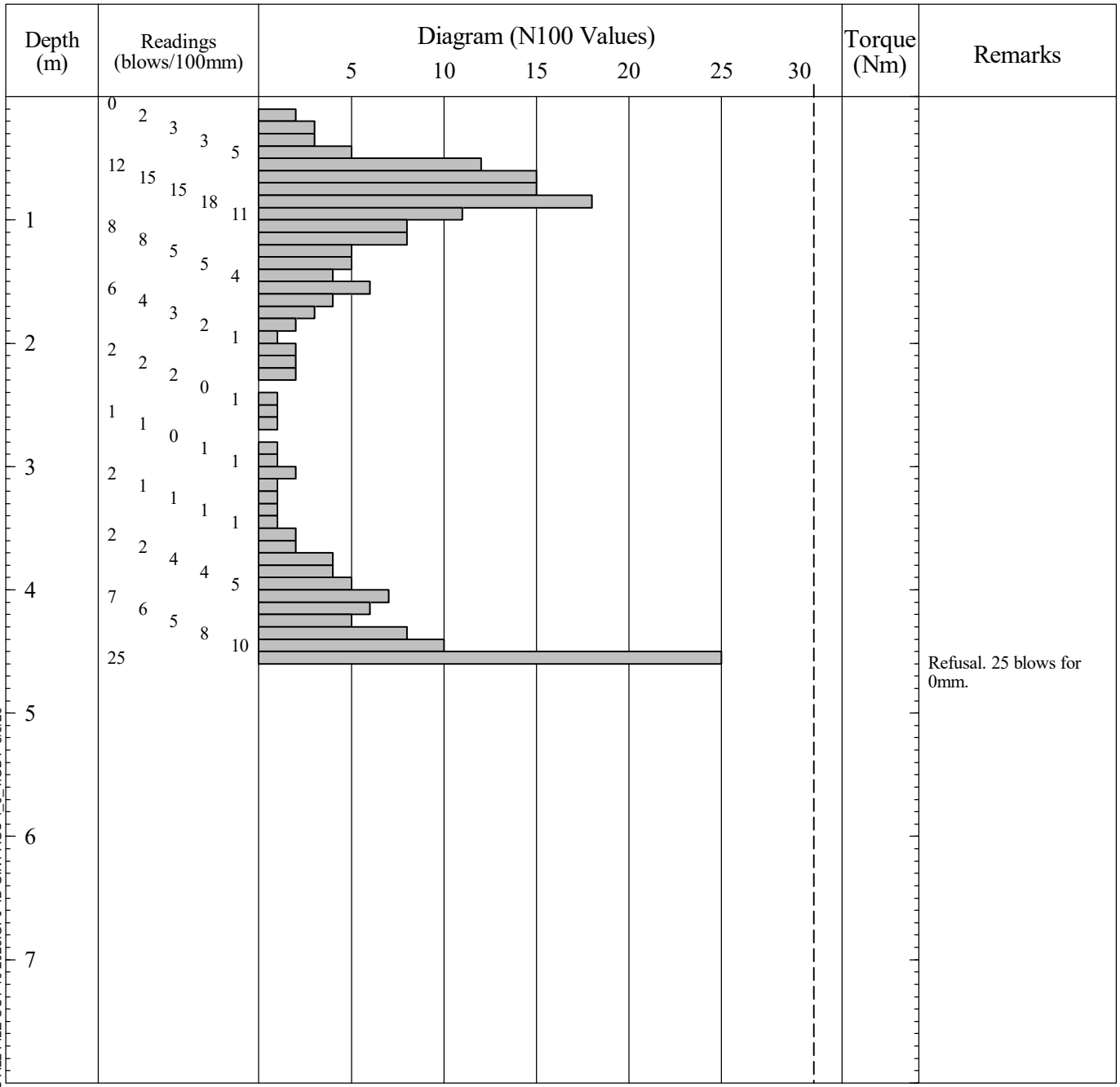
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M085**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	22-07-25 22-07-25	35.45	E 522,473.1 N 824,428.4

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M086**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	38.20	E 522,682.0 N 823,918.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 3 7 8	5 10 15 20 25 30		
1	8 8 6 4 6			
2	19 12 10 13 14			Refusal. 25 blows for 0mm.
3	16 25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M087**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	37.91	E 522,703.0 N 823,868.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0			
	1			
	2			
	2			
	2			
	2			
	18			
	21			
	22			
1	25			Refusal. 25 blows for 0mm.
2				
3				
4				
5				
6				
7				

Diagram (N100 Values): 5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.9m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M088**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	37.28	E 522,810.8 N 823,654.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	2 2 2 2			
1	3 5 8 8 7			
2	6 6 2 0 2			
3	0 1 0 1 1			
4	0 0 0 0 1			
5	2 1 2 1 1			
6	7 8 7 7 4			
7	5 8 10 13 14			
	11 10 5 6 8			
	6 8 9 9 13			
	12 25			Refusal. 25 blows for 0mm.

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

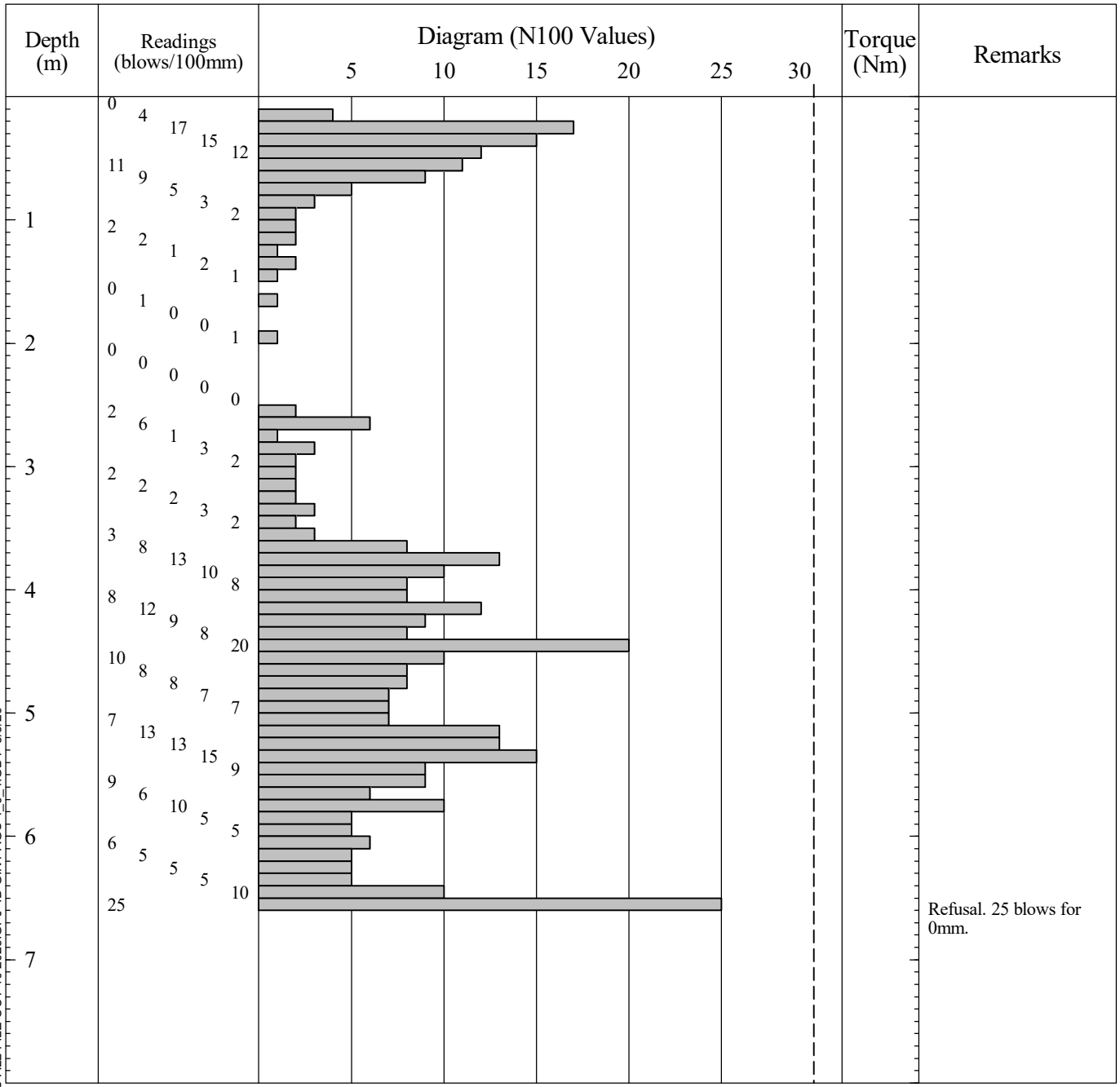
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M089**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	39.98	E 523,043.7 N 823,288.9

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 6.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

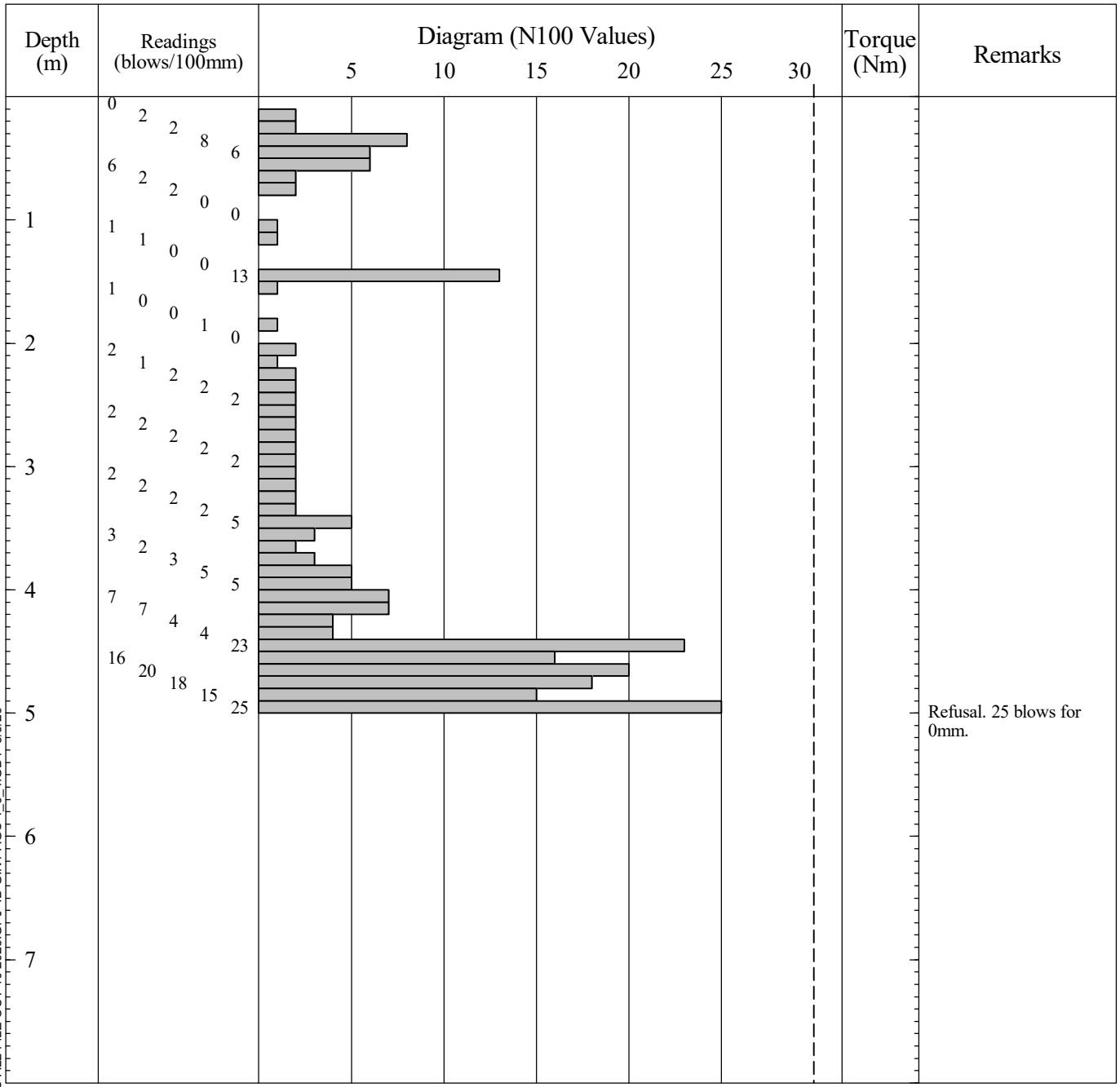
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M090**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	38.80	E 523,109.8 N 823,208.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

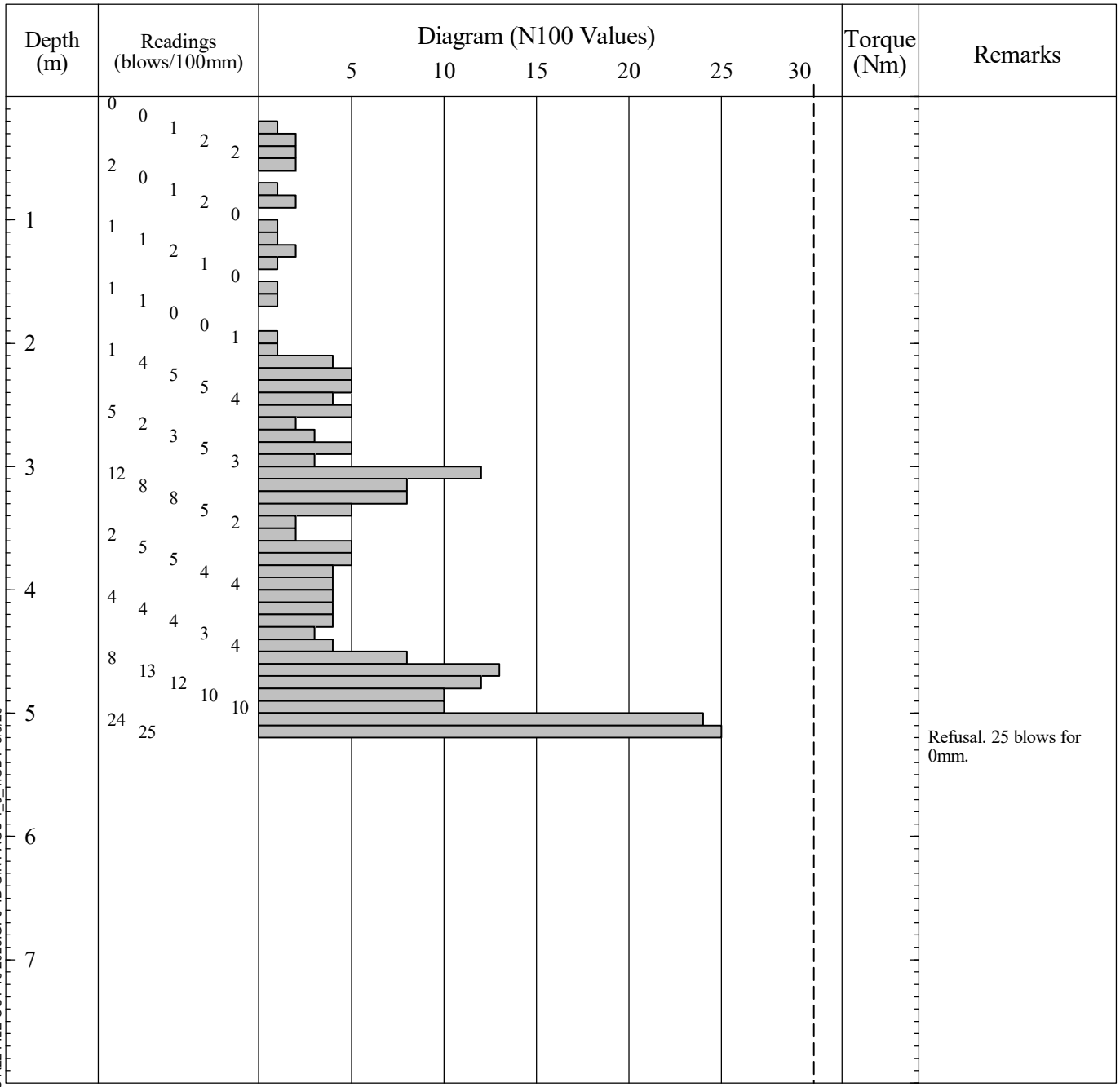
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M091**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	36.33	E 523,277.2 N 823,020.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M092**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	35.38	E 523,330.6 N 822,960.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 5 13 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M093**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	34.88	E 523,440.7 N 822,837.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	2 2 2 0 2	5 10 15 20 25 30		
1	3 5 7 7 8			
	7 6 2 3 2			
2	2 2 2 2 2			
	2 5 6 6 3			
3	2 3 2 3 2			
	6 7 8 8 6			
4	5 8 11 12 12			
	11 10 8 8 6			
5	7 8 9 10 13			
	25			Refusal. 25 blows for 0mm.
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

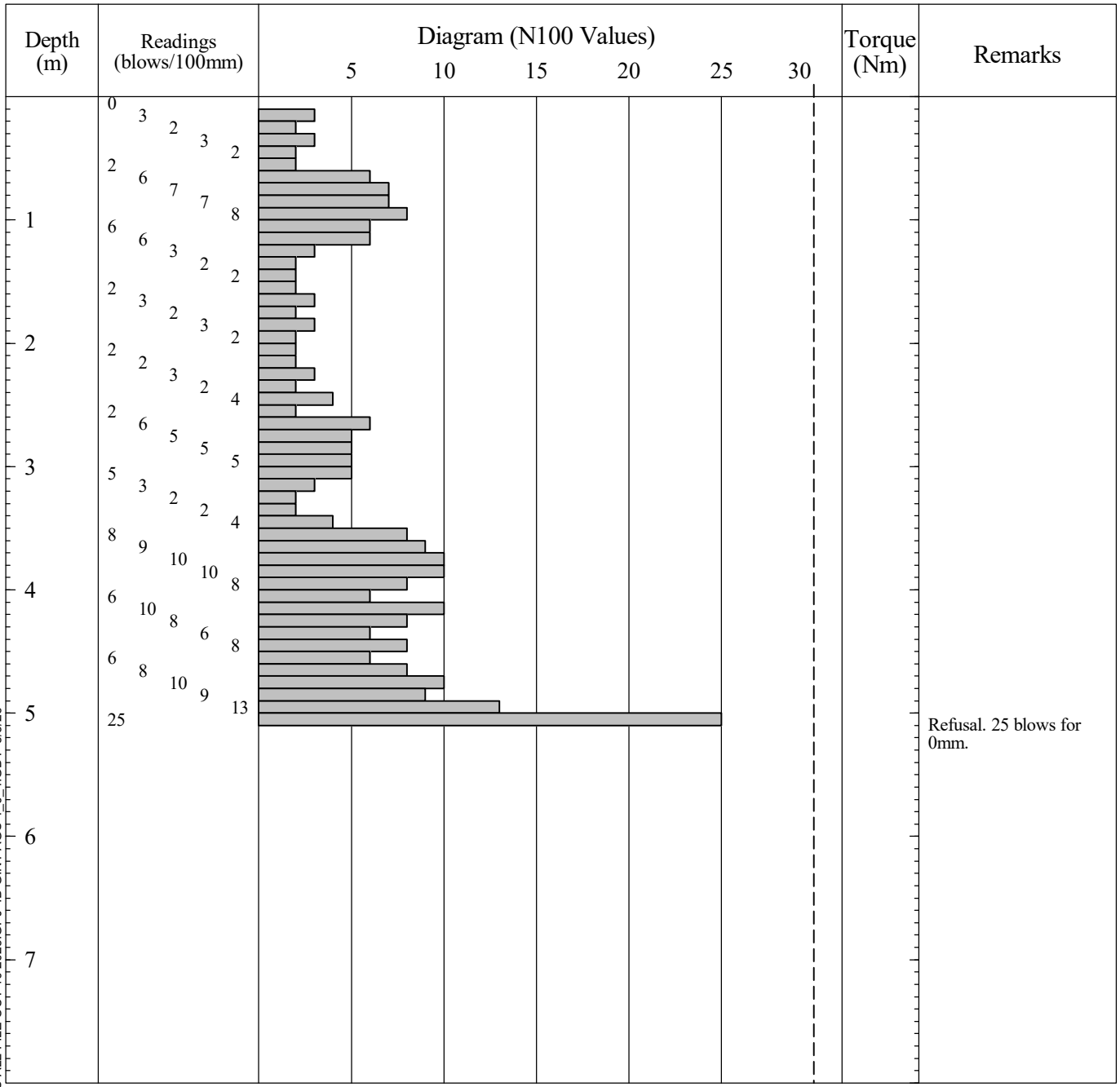
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M094**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	32.88	E 523,514.5 N 822,725.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

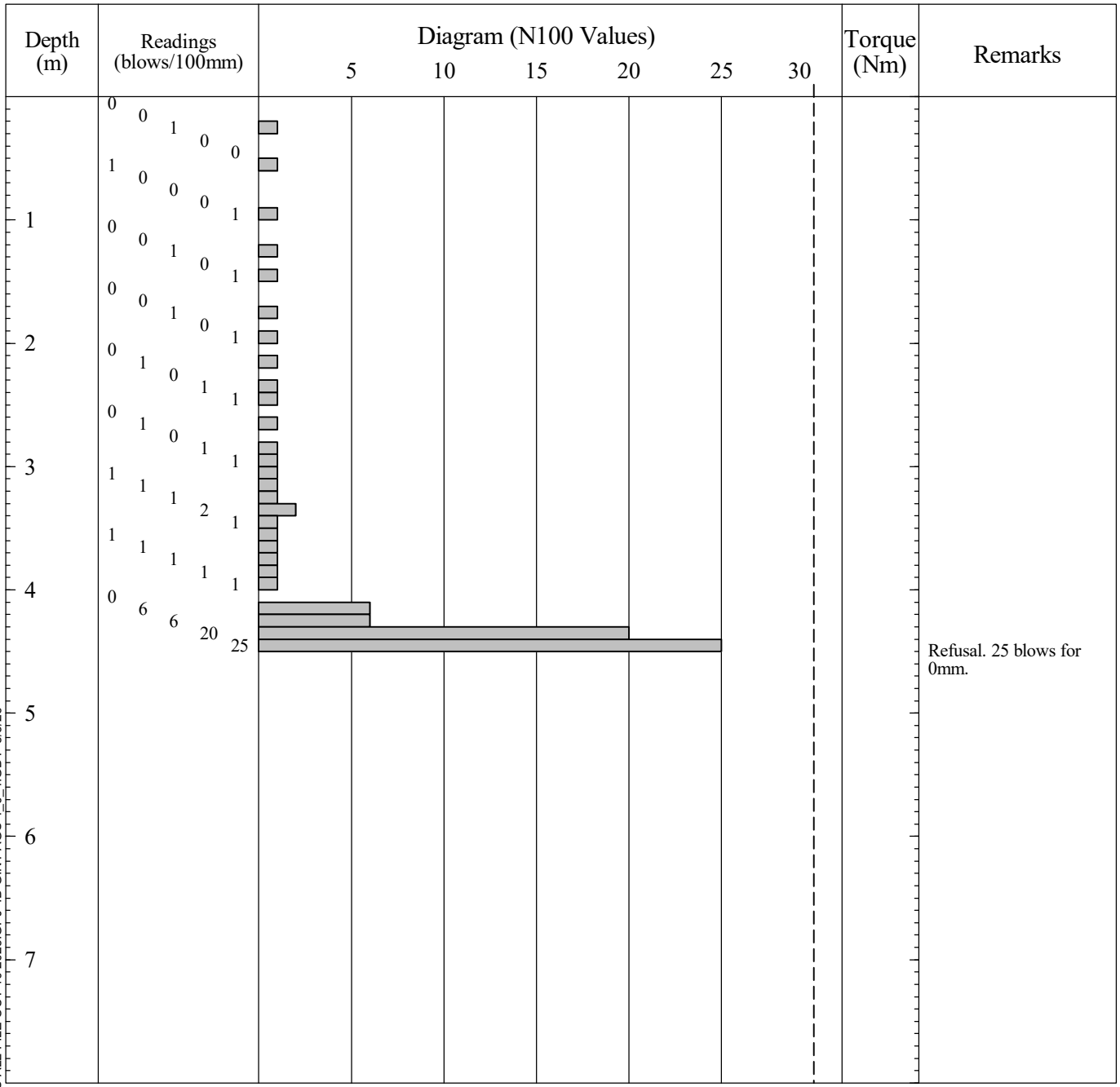
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M095**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	23-07-25 23-07-25	32.52	E 523,546.1 N 822,623.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M096**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	32.76	E 523,573.6 N 822,532.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 2 1			
1	2 2 1 3 1			
2	1 1 2 3 8			Refusal. 25 blows for 0mm.
	3 1 2 10 17			
	9 9 25			

Diagram (N100 Values): 5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M097**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	33.13	E 523,589.6 N 822,481.3

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 4 3	5 10 15 20 25 30		
1	1 0 2 5 8			
	6 4 4 1 2			
	1 2 1 0 1			
2	1 4 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

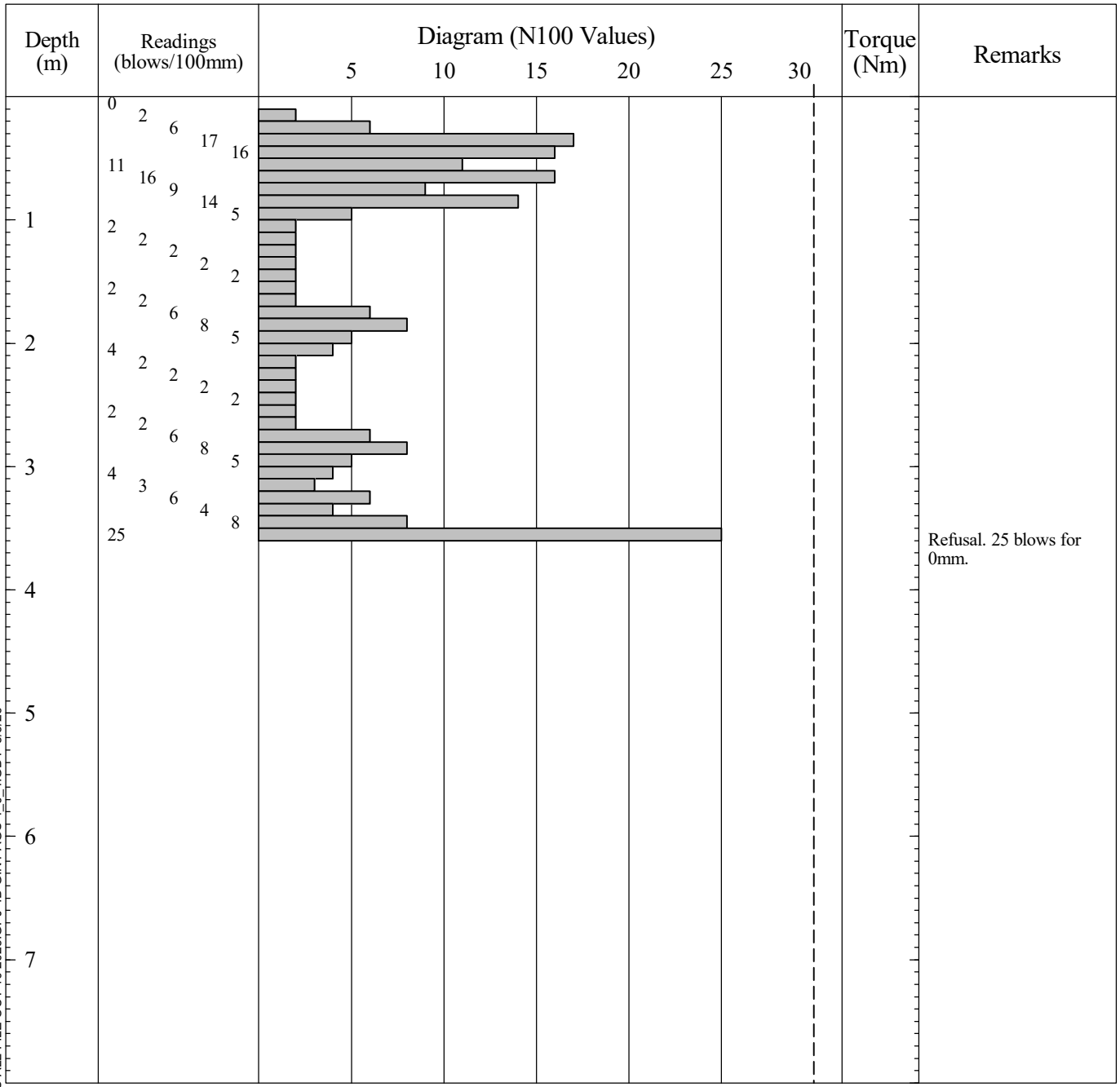
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M098**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	33.60	E 523,615.2 N 822,415.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M099**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	33.78	E 523,645.7 N 822,339.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 22 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.

1 2 3 4 5 6 7

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller PMcG	Logged By PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

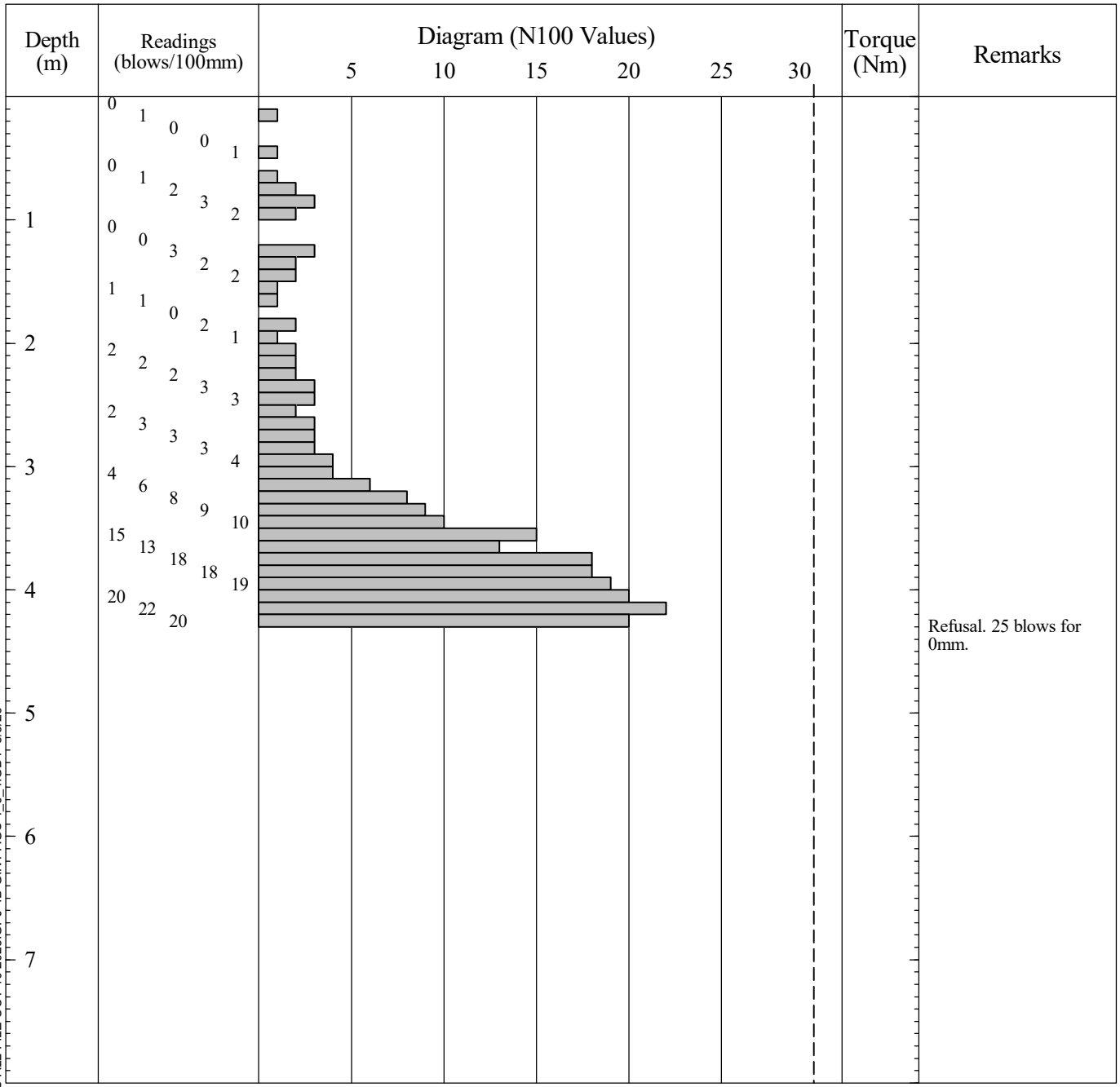
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M100**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	33.06	E 523,766.7 N 821,816.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

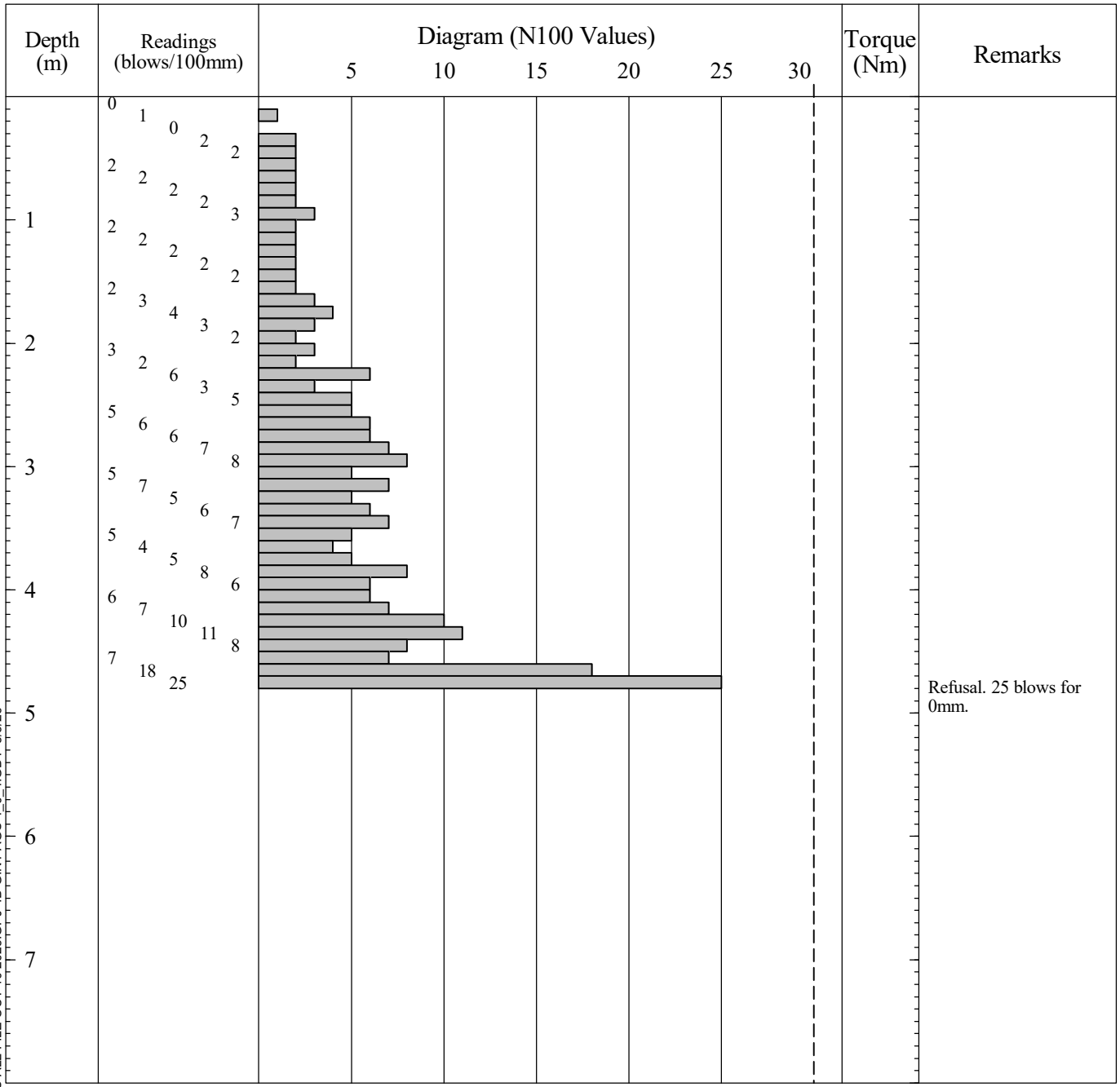
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M101**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	24-07-25 24-07-25	32.46	E 523,789.1 N 821,639.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M102**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	31.39	E 523,804.6 N 821,559.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 24 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M103**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	30.89	E 523,821.9 N 821,418.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M104**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	31.04	E 523,836.4 N 821,354.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	5 6 6 5	5 10 15 20 25 30		
1	4 5 8 7 7			
2	6 4 4 5 3			
3	4 5 3 4 3			
4	3 6 4 4 5			
5	3 5 5 4 3			
6	2 7 8 8 10			
7	11 17 25			Refusal. 25 blows for 0mm.

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M105**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	24.98	E 528,740.0 N 818,630.3

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 2 4	5 10 15 20 25 30		
1	5 5 4 2 1			
2	5 14 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M106**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	23.85	E 529,012.3 N 818,510.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
1	0 0 0 1 0 0 0 0 0 0 1 0 0 2 1 2 0 0 0 0	5 10 15 20 25 30		
2	0 2 5 4 7 7 6 5 5 6 7 7 5 6 5 5 5 5 5 9			
3				
4	10 5 4 10 10 12 18 25			Refusal. 25 blows for 0mm.
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 4.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M107**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	39.28	E 531,116.7 N 818,341.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 1 3 2			
1	2 2 3 1 0			
2	1 2 3 2 3			
3	5 25			Refusal. 25 blows for 0mm.
4				
5				
6				
7				

Diagram (N100 Values) axis: 5, 10, 15, 20, 25, 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

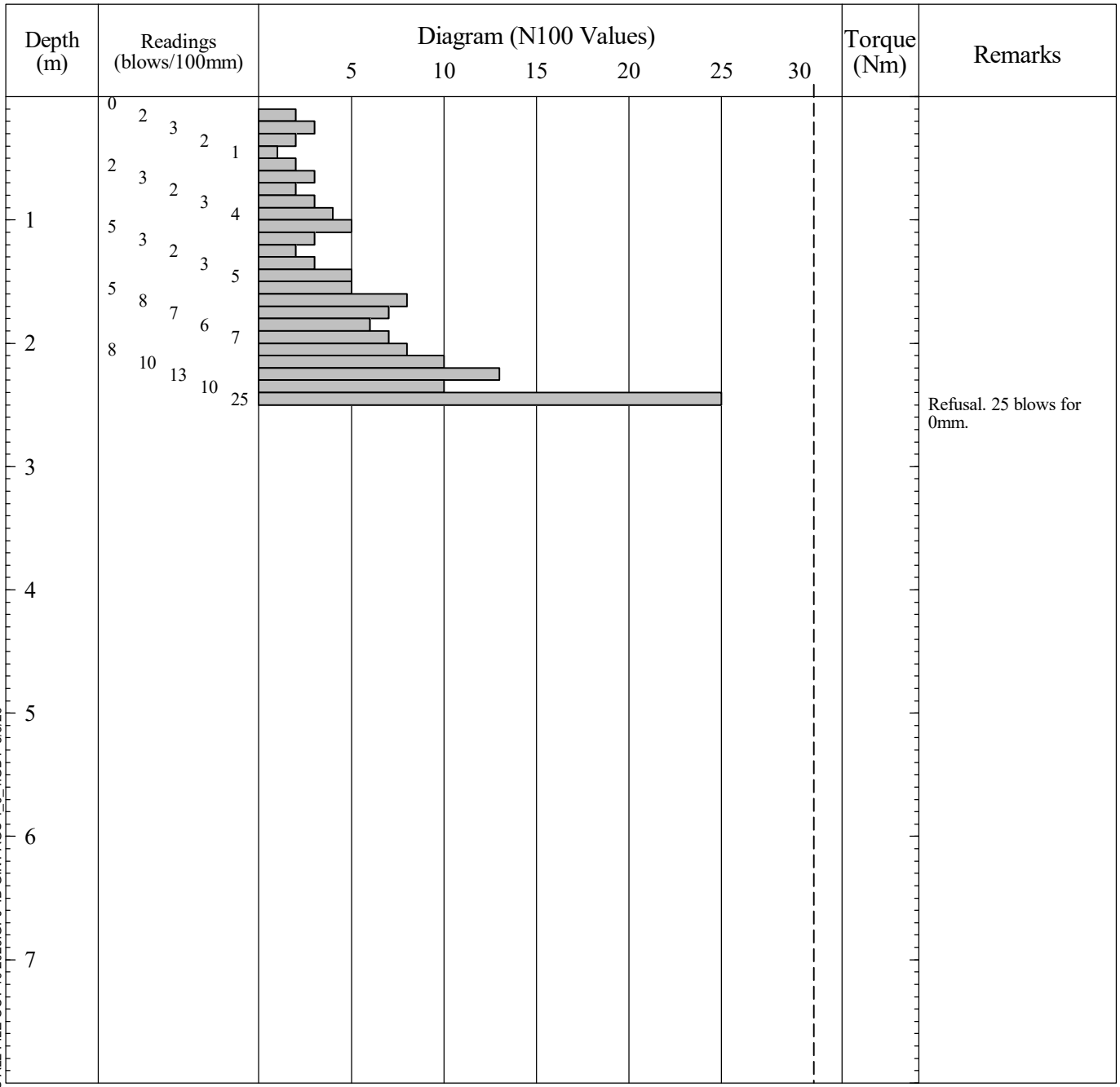
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M108**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	25-07-25 25-07-25	79.57	E 533,416.3 N 818,492.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

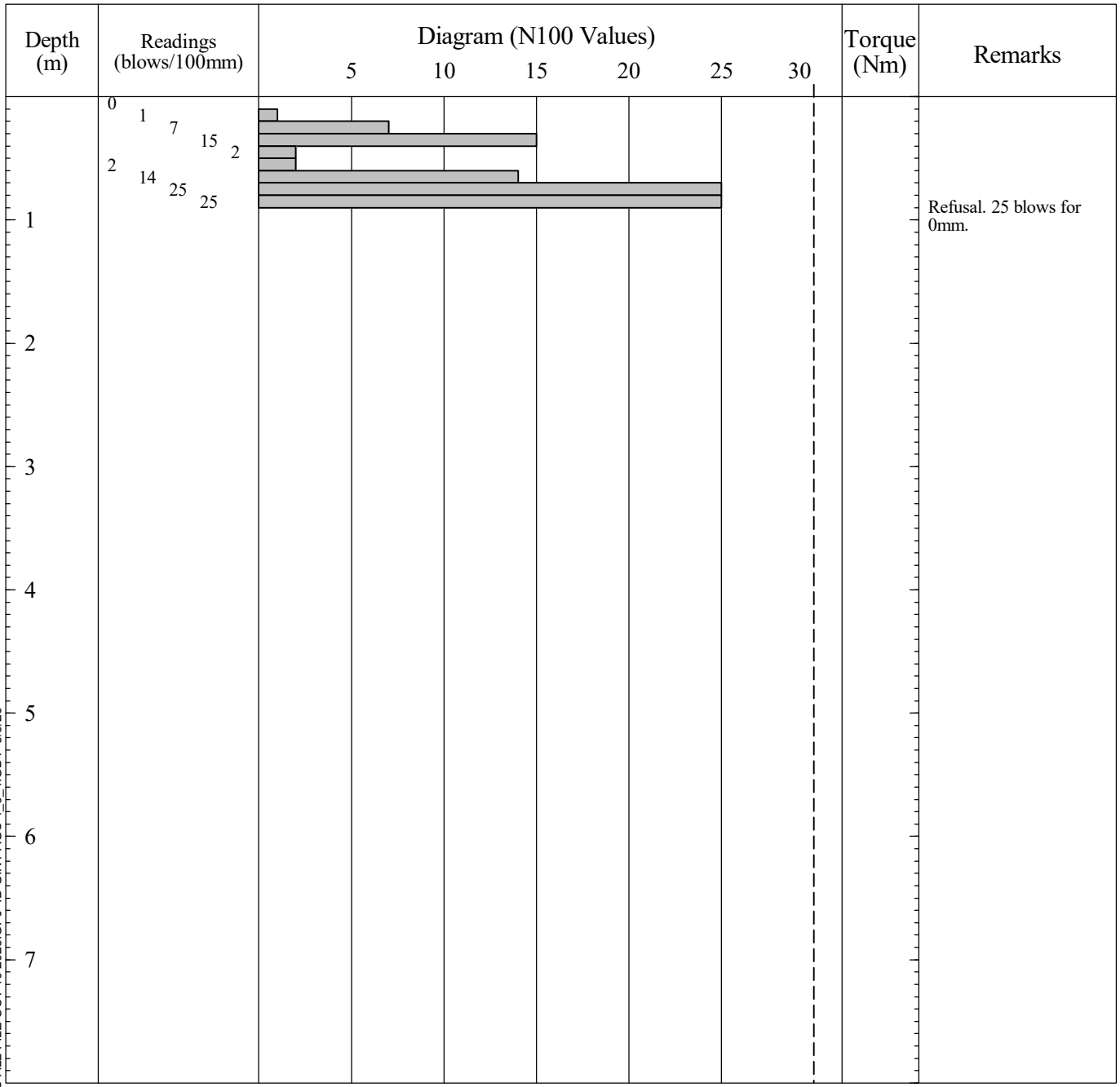
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M109**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	120.86	E 534,338.8 N 818,403.5

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M110**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	130.09	E 534,494.7 N 818,365.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 1 1 0	5 10 15 20 25 30		
1	2 2 1 1 0			
2	3 2 2 3 2			
3	1 2 2 2 5			
4	25			Refusal. 25 blows for 0mm.
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M111**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	138.13	E 534,846.5 N 818,283.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 0 1 1	5 10 15 20 25 30		
1	2 3 1 0 2			
2	12 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

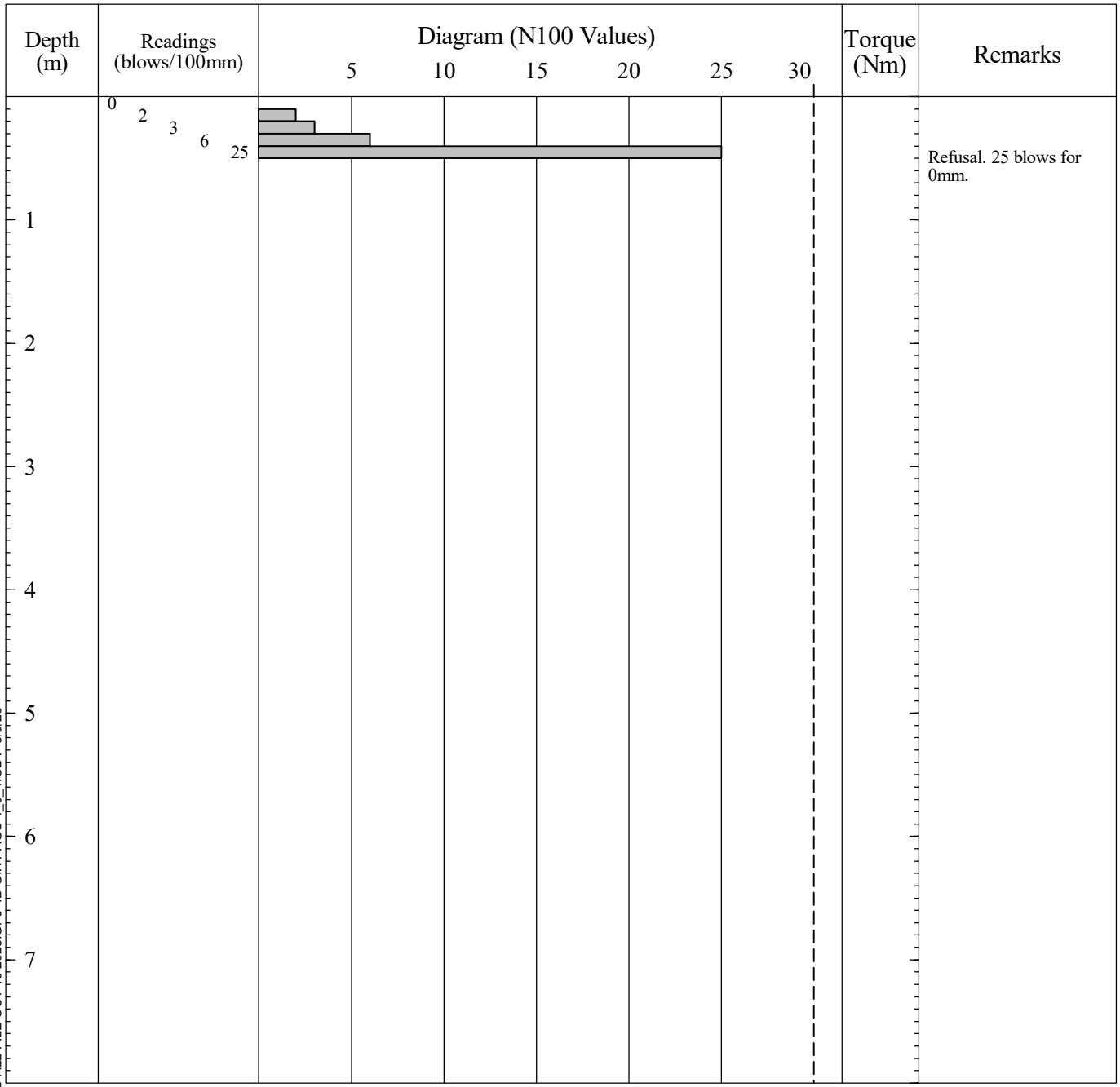
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M112**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	154.01	E 535,346.9 N 818,178.5

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.40m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller PMcG	Logged By PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

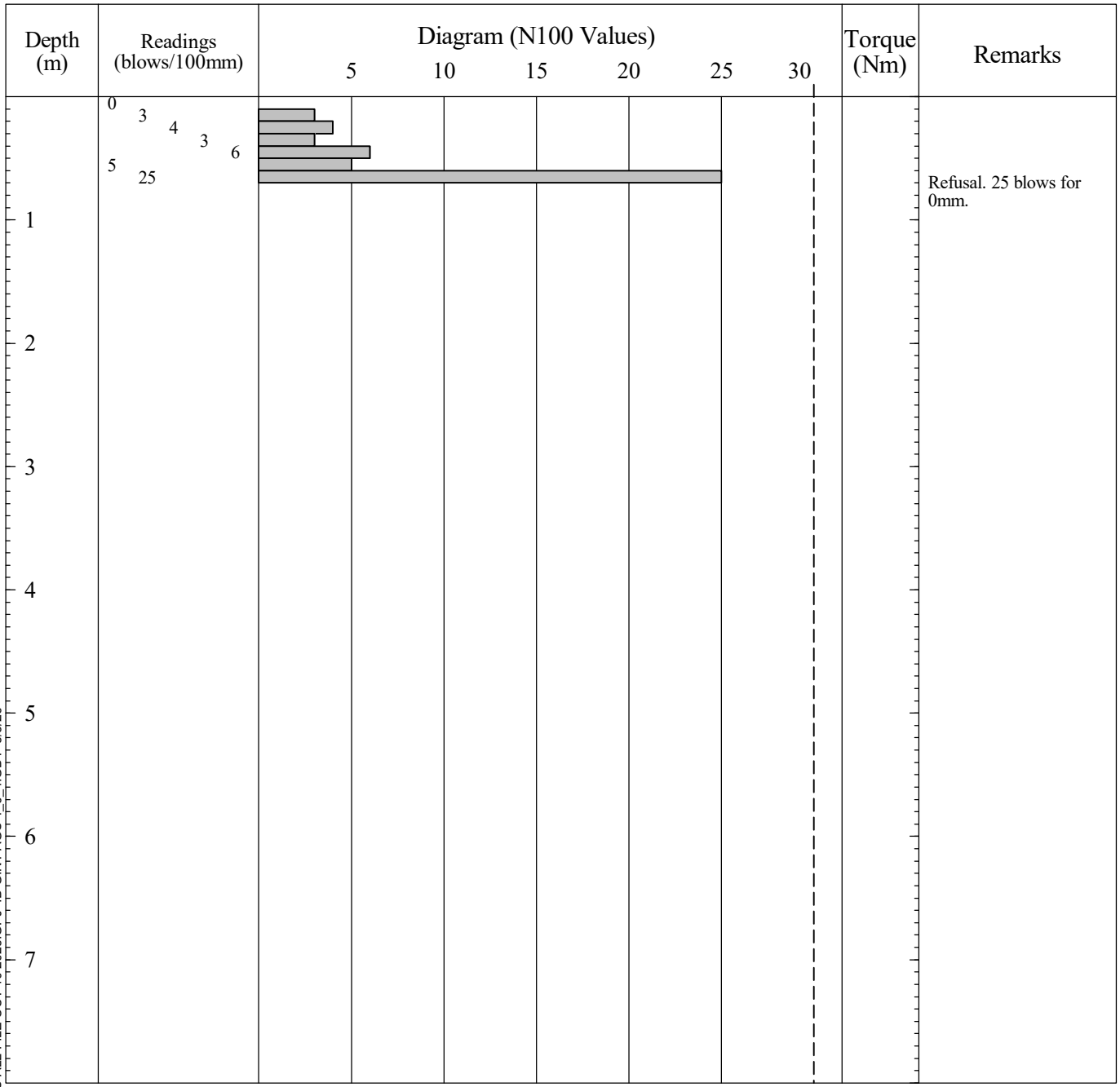
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M113**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	159.39	E 535,486.4 N 818,067.4

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller PMcG	Logged By PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

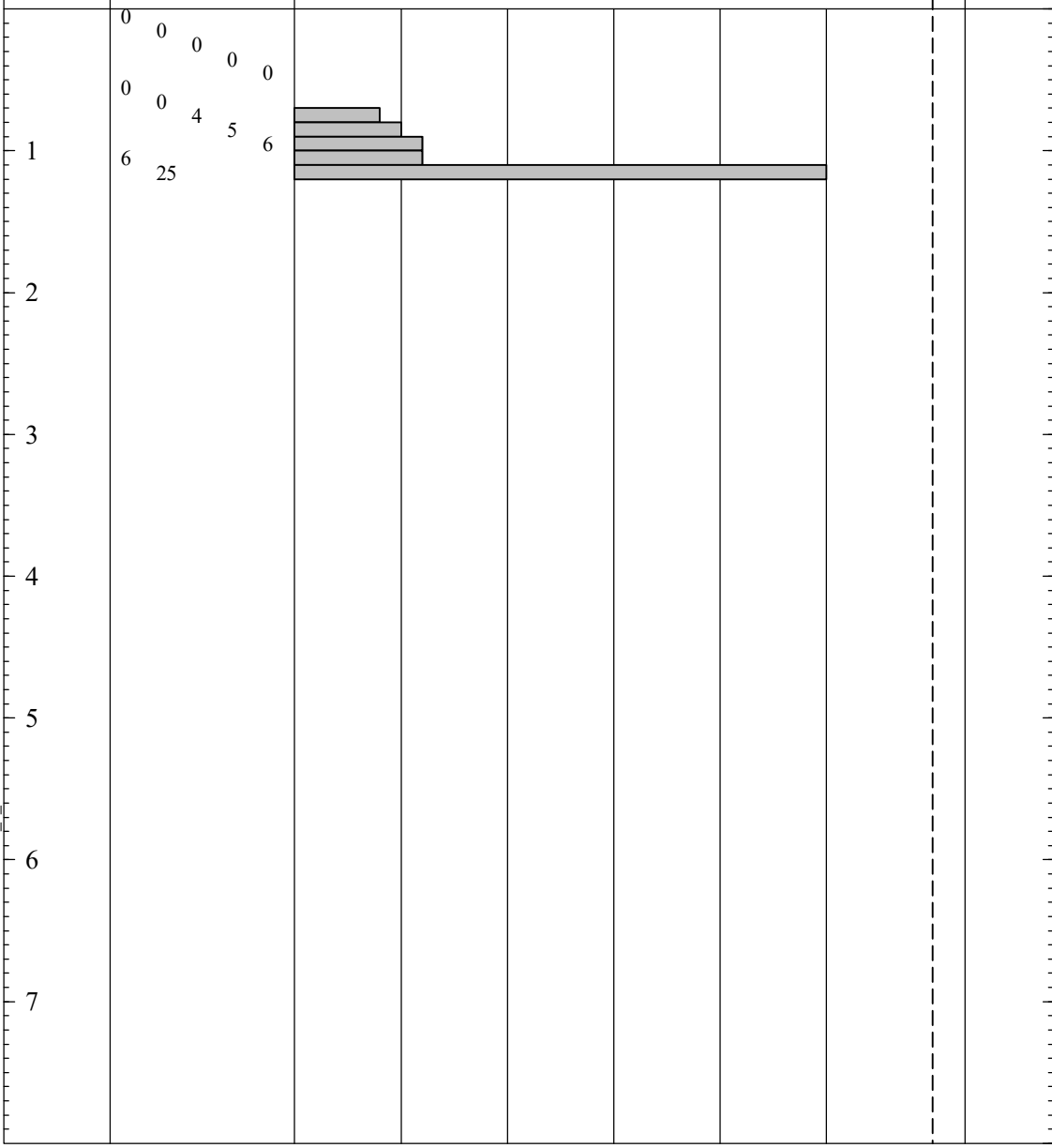
DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M114**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	169.40	E 535,590.0 N 817,982.4

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 0 0 0	5 10 15 20 25 30		
1	0 0 4 5 6			Refusal. 25 blows for 0mm.
	6 25			
2				
3				
4				
5				
6				
7				



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M115**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	176.75	E 535,774.0 N 817,910.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 2 1 3	5 10 15 20 25 30		
1	8 5 6 0 0			
	2 4 5 9 7			
	8 7 5 3 9			
2	17 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M116**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	176.67	E 535,923.0 N 817,811.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 1 1 0	5 10 15 20 25 30		
1	0 0 0 0 0			
2	3 4 5 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M117**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	29-07-25 29-07-25	175.32	E 536,068.2 N 817,691.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 0 0 0			
1	1 0 0 0 0			
1	0 0 0 0 0			
2	0 0 2 3 2			
2	0 1 2 2 2			
3	3 2 3 3 3			
3	1 1 0 0 0			
4	2 0 3 4 1			
4	2 3 4 6 6			
5	12 8 4 4 5			
5	7 7 8 11 15			
6	11 14 18 20 25			Refusal. 25 blows for 0mm.
7				

5 10 15 20 25 30

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 5.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M118**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	186.90	E 537,004.3 N 817,061.7

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	1 0 1 0	5 10 15 20 25 30		
0	2 1 2 0			
1	0 0 0 2			
3	2 3 2 2			
2	3 2 2 0			
5	7 10 25			Refusal. 25 blows for 0mm.
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

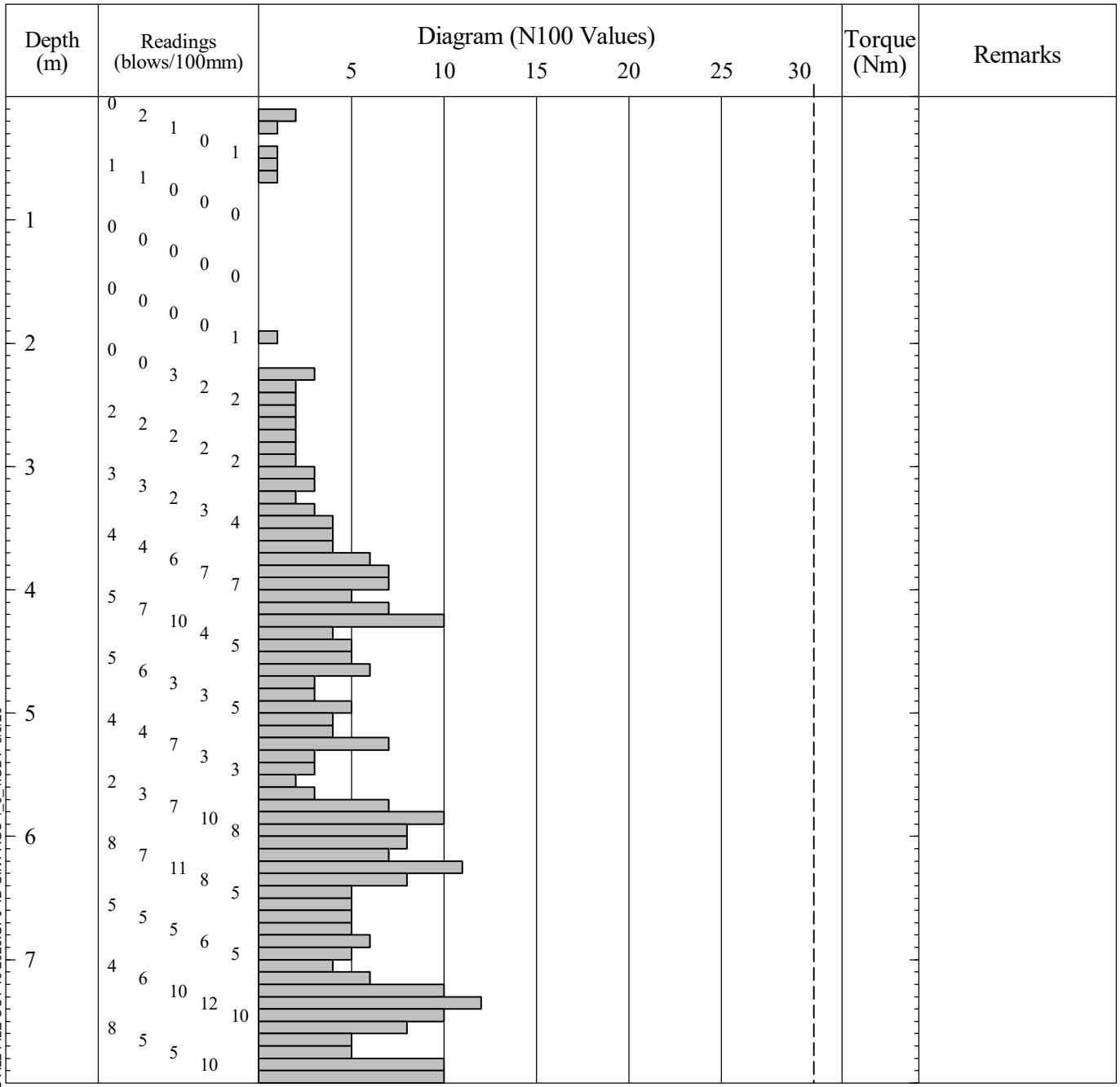
Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M119**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	177.39	E 537,287.7 N 816,693.5

Engineer: Atkins Realis

Sheet 1 of 2

Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 8.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M119**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	177.39	E 537,287.7 N 816,693.5

Engineer	Sheet / Status
Atkins Realis	Sheet 2 of 2 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
9	8 11 10 10 10 12 12 15 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.
10				
11				
12				
13				
14				
15				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 8.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

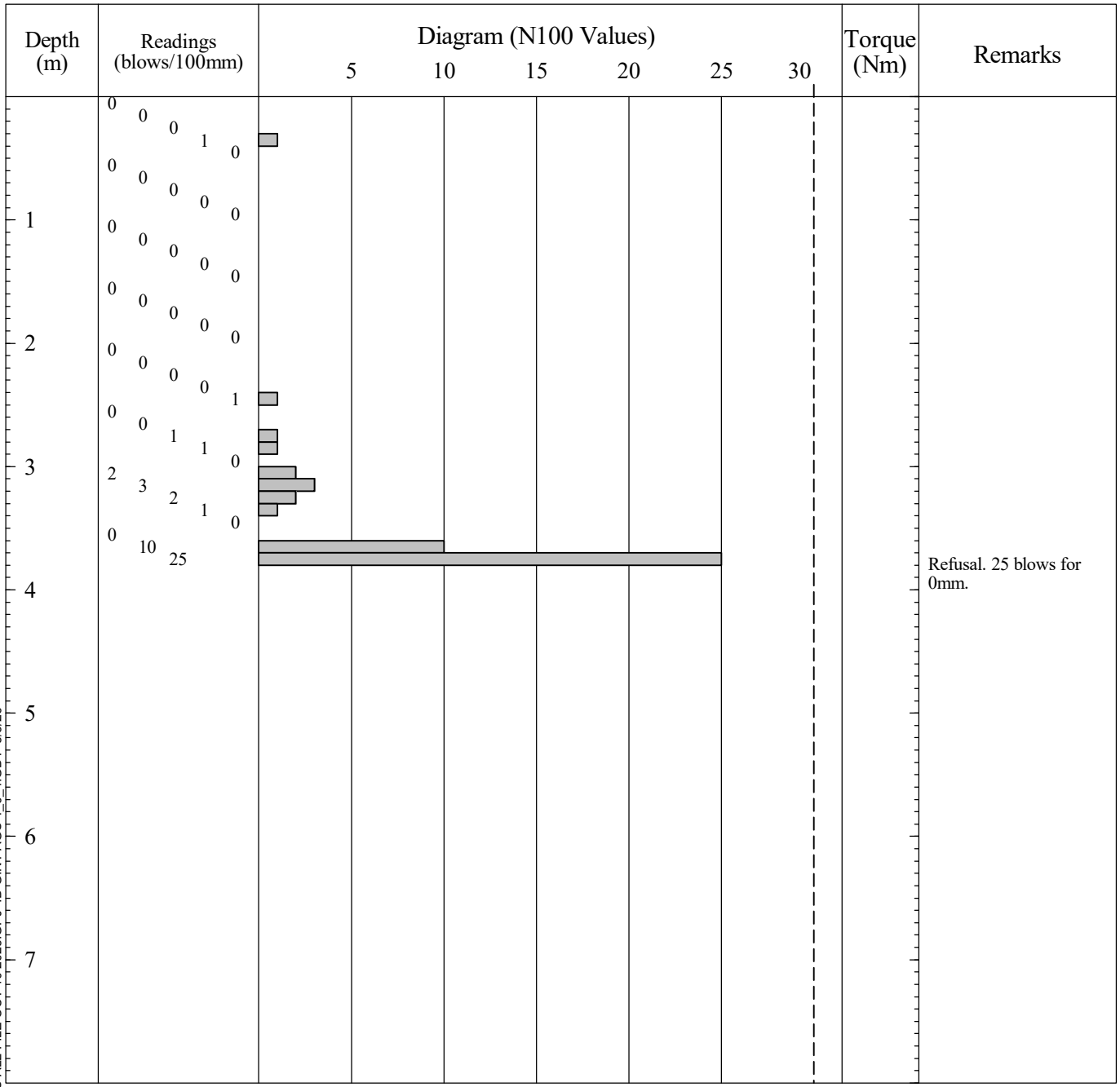
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M120**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	173.47	E 537,439.3 N 816,539.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

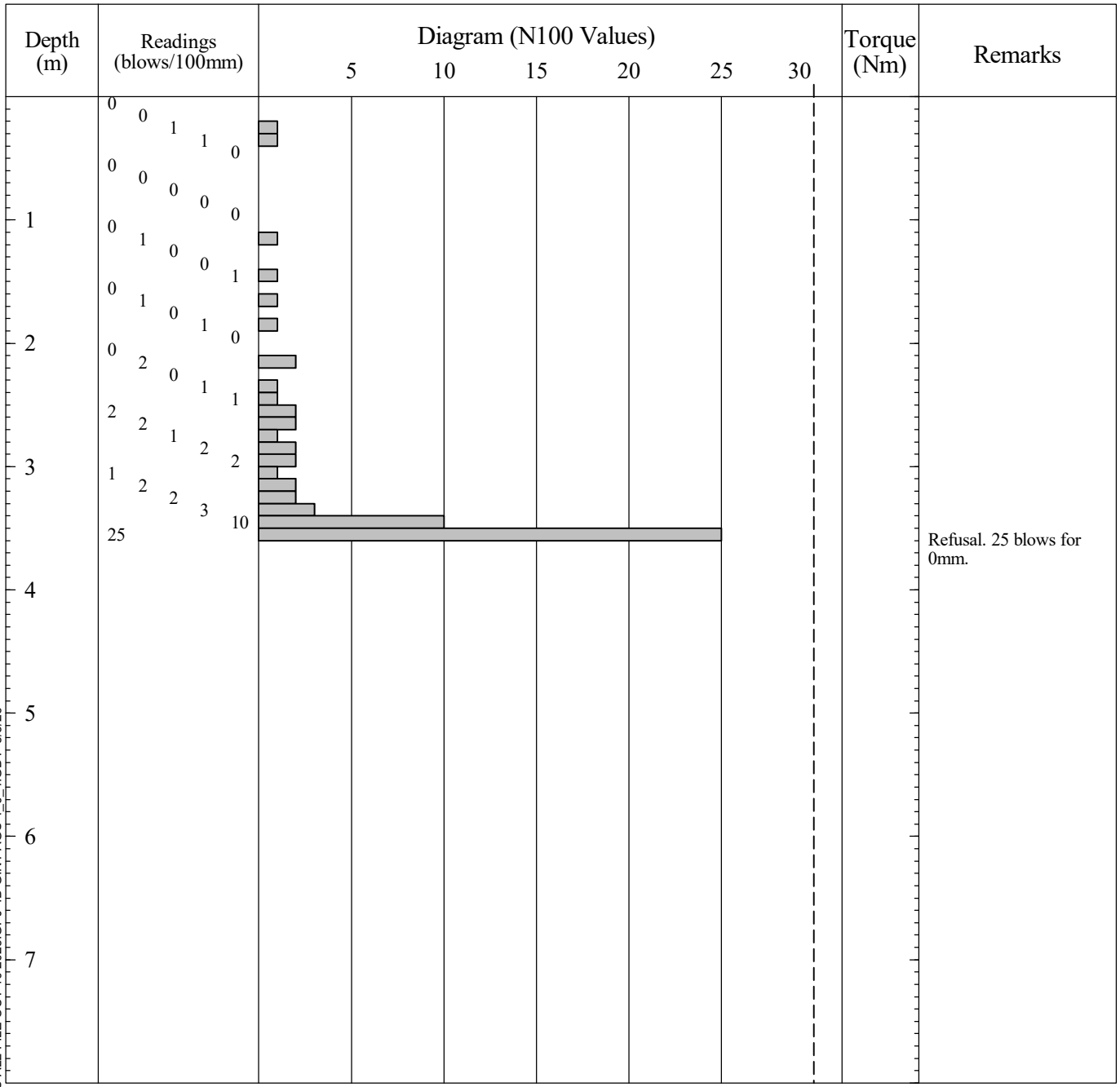
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M121**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	172.70	E 537,482.9 N 816,497.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

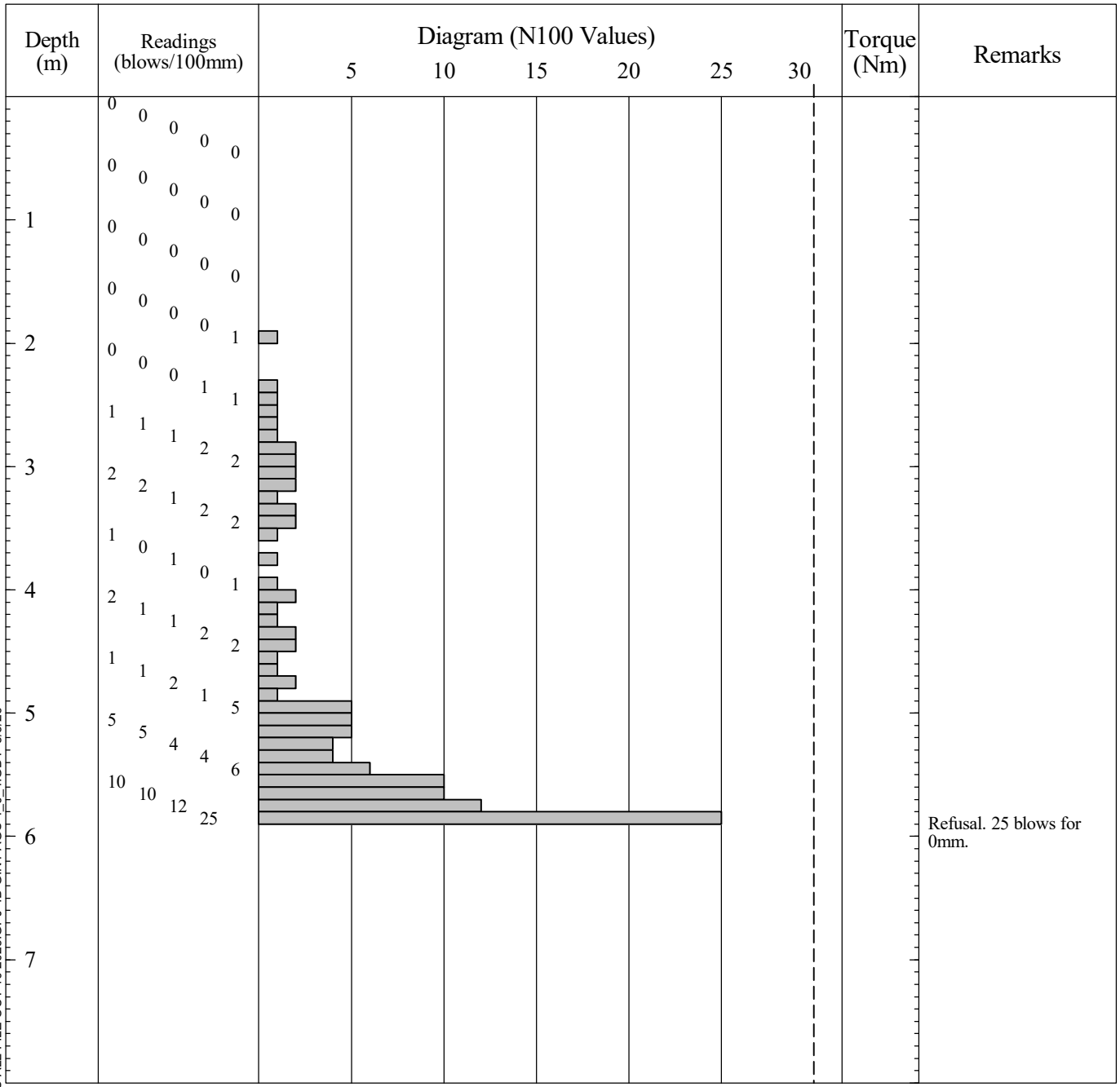
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M122**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	182.24	E 538,004.4 N 816,166.6

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL


Depth (m)
Readings (blows/100mm)
Diagram (N100 Values)
5
10
15
20
25
30
Torque (Nm)
Remarks
1
2
3
4
5
6
7
0 0 0

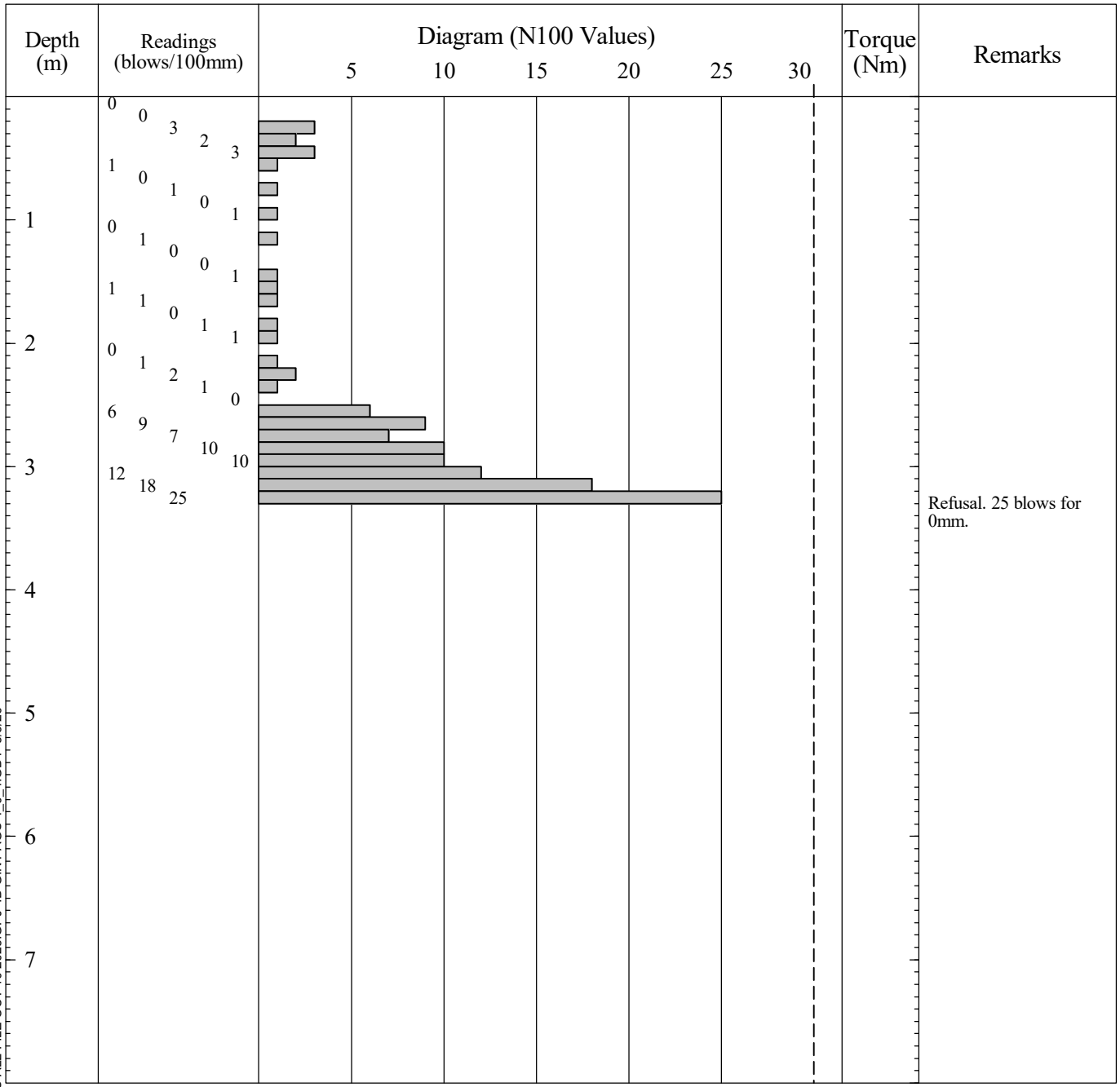
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M123**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	167.25	E 538,580.2 N 815,981.2

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 3.20m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

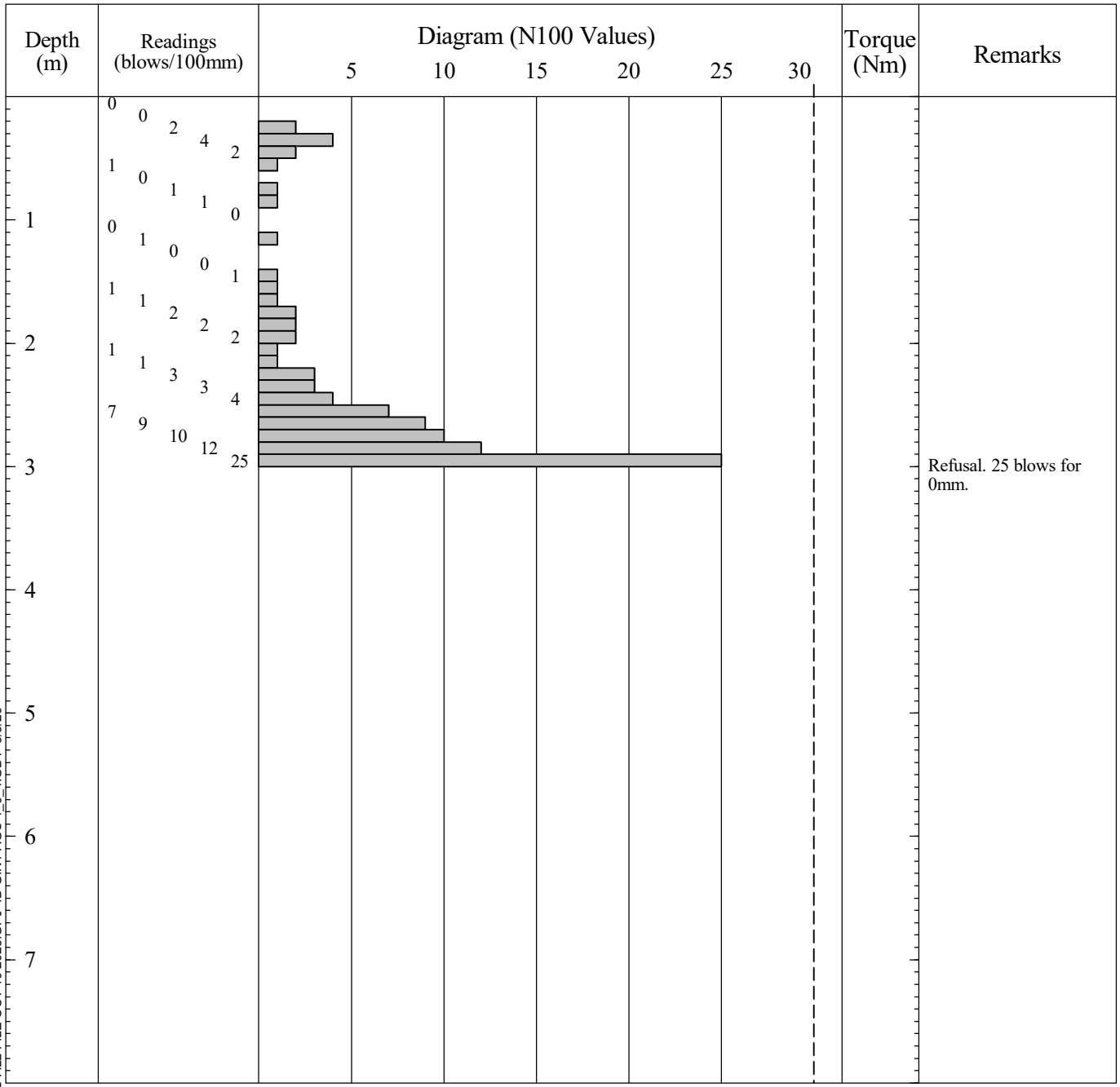
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M124**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	161.27	E 538,721.7 N 815,948.9

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M125**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	157.39	E 538,819.8 N 815,932.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 2 4 2	5 10 15 20 25 30		
1	0 1 25			Refusal. 25 blows for 0mm.
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-M126**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	30-07-25 30-07-25	140.82	E 540,454.0 N 814,933.9

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 3 4 25	5 10 15 20 25 30		Refusal. 25 blows for 0mm.
1				
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.30m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: PMcG	Logged By: PMcG

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

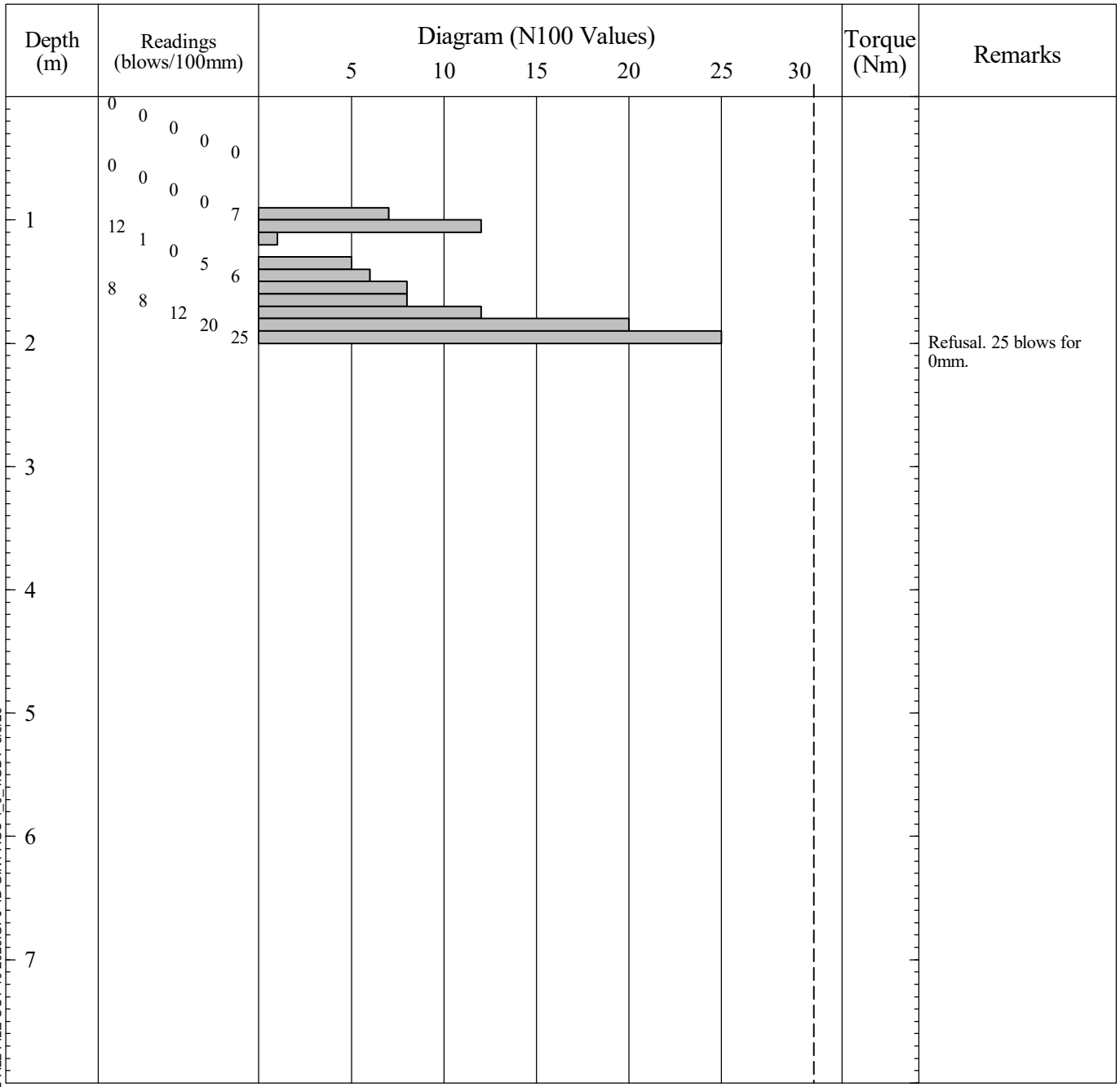
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R01**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	177.35	E 536,204.4 N 817,654.1

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

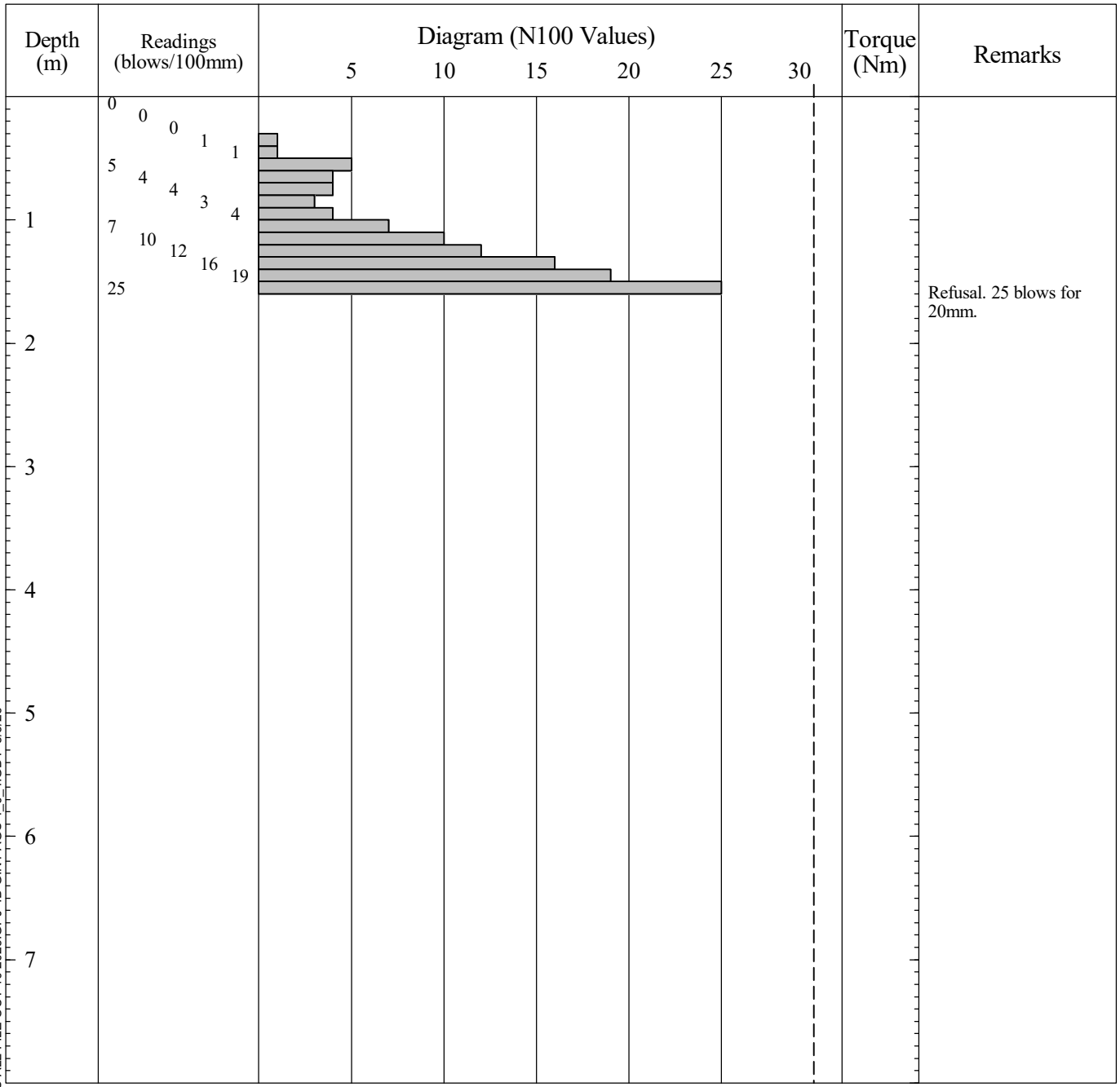
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R02**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	190.54	E 536,324.4 N 817,562.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

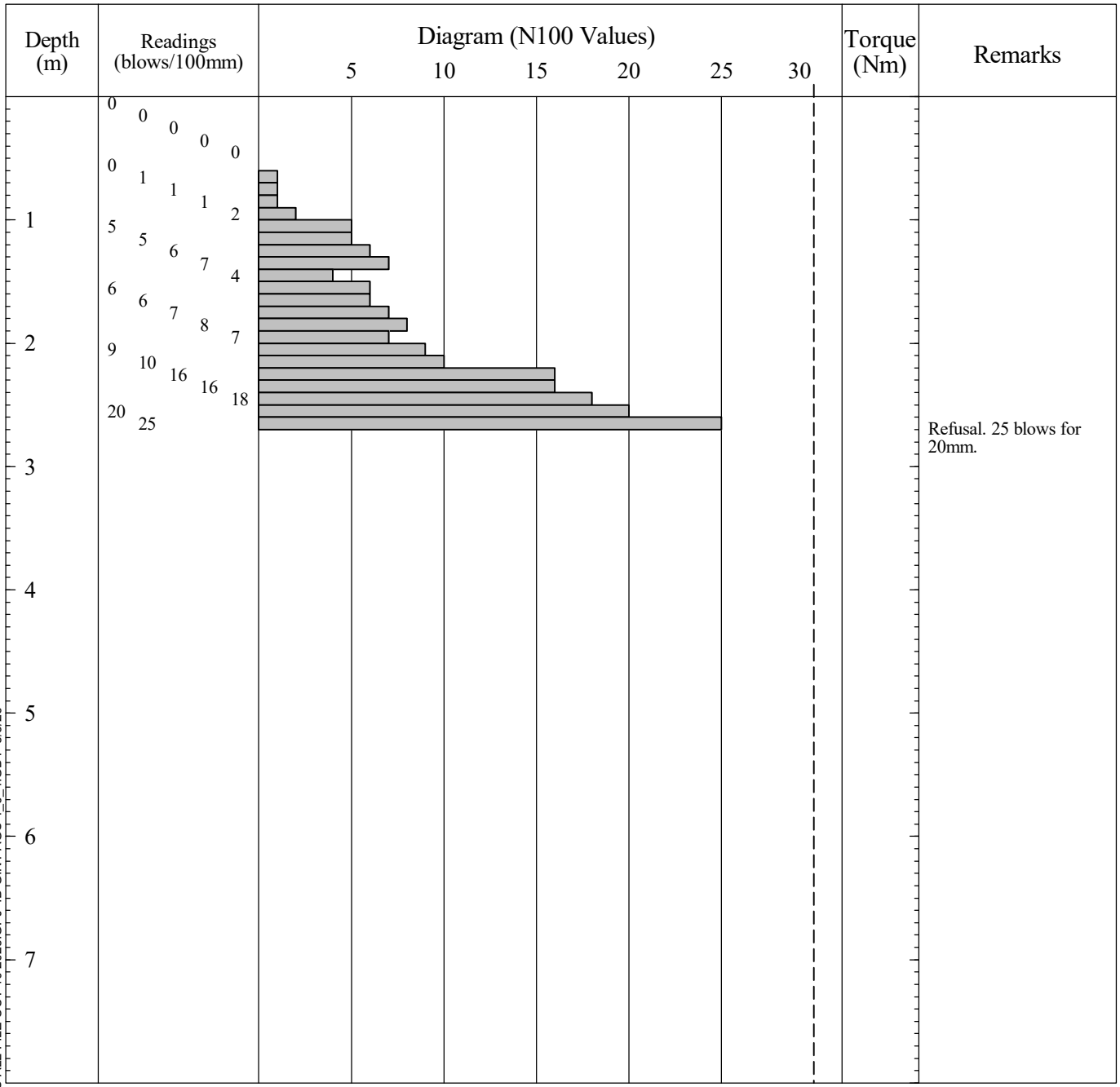
Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R03**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	202.73	E 536,356.7 N 817,422.1

Engineer: Atkins Realis

Sheet 1 of 1

Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.60m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

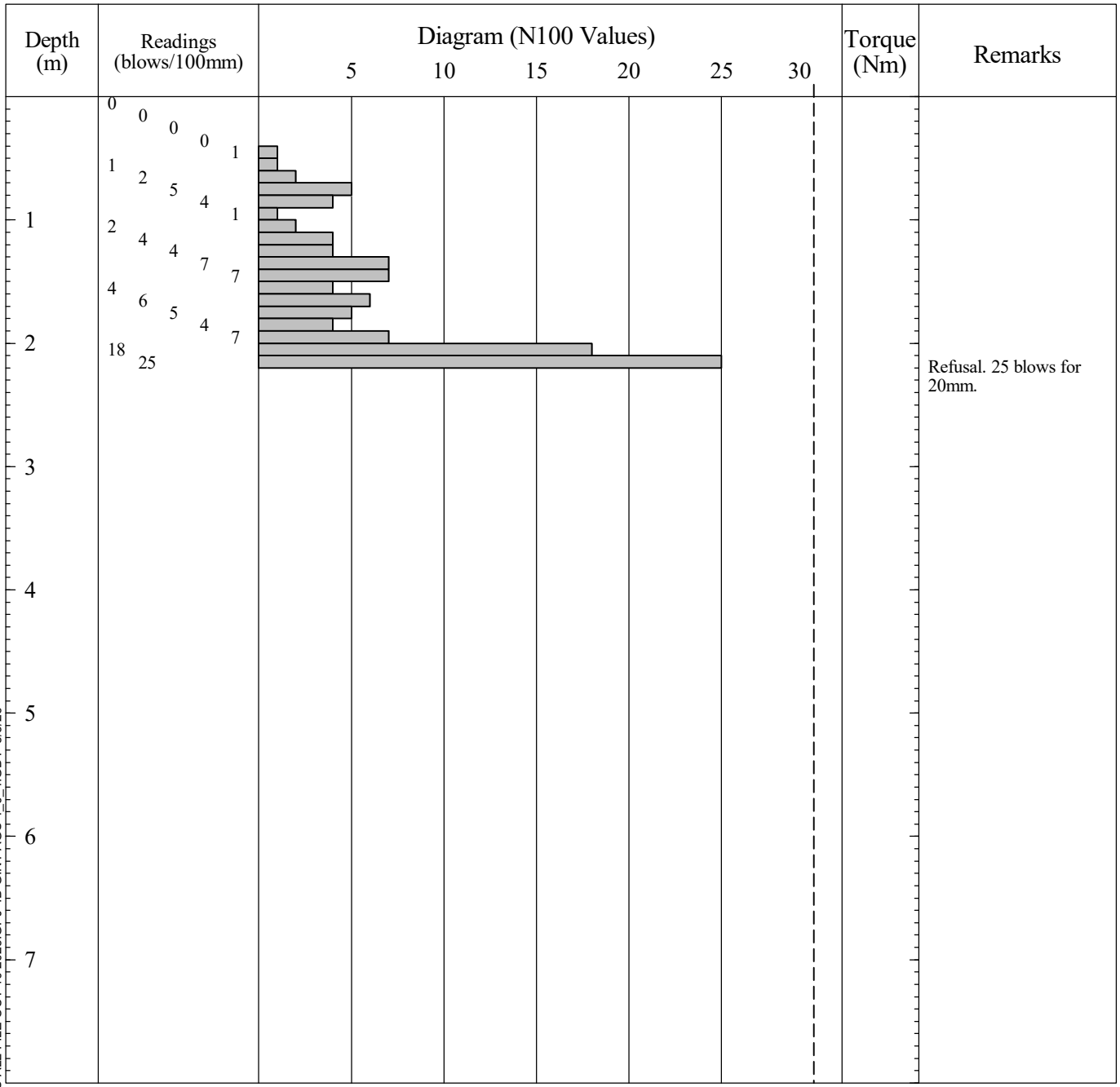
Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	207.69	E 536,399.8 N 817,412.0

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.10m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

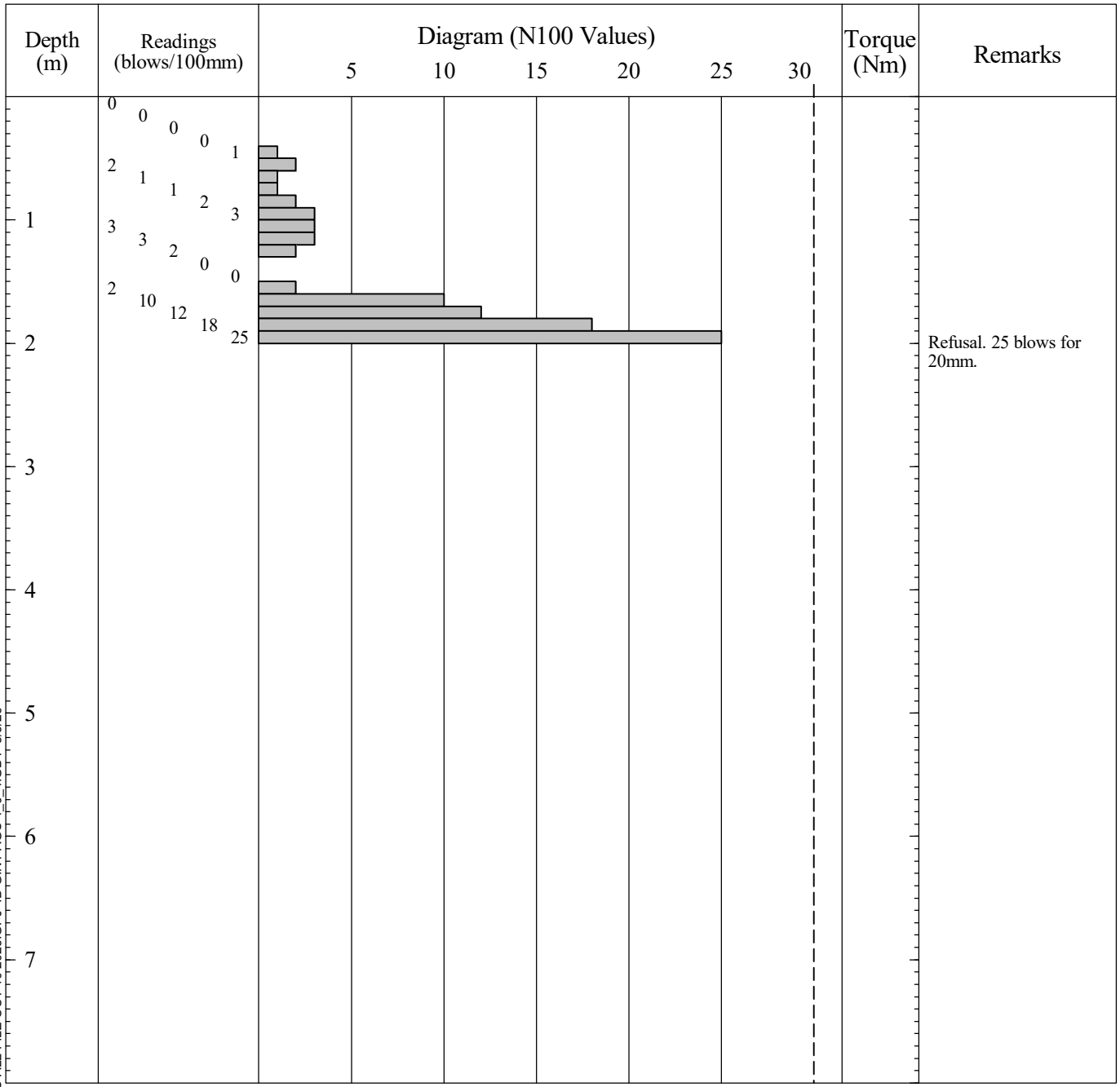
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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	208.64	E 536,465.2 N 817,393.2

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL



Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-R06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	05-06-25 05-06-25	204.57	E 536,493.1 N 817,431.9

Engineer	Sheet / Status
Atkins Realis	Sheet 1 of 1 Status FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	0 0 0 0 0	5 10 15 20 25 30		
1	0 3 5 8 3			
2	9 10 11 10 9			Refusal. 25 blows for 20mm.
3	15 18 25			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.70m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: DC	Logged By: DC

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-WSM04**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	32.73	E 527,430.0 N 820,470.4

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
	0 0 0 0 0 25	5 10 15 20 25 30		

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 0.50m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-WSM05**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	34.87	E 527,695.3 N 819,889.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values) 5 10 15 20 25 30	Torque (Nm)	Remarks
1	0 0 0 0 0			
	0 0 0 0 0			
	0 0 0 0 0			
2	0 0 0 0 0			
	0 0 0 0 0			
	0 0 0 0 0			
3	0 0 0 0 0			
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 2.90m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used DPH Rig		Driller JP	Logged By JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Irish drilling LTD

DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-WSM06**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	28.62	E 529,801.6 N 818,397.8

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values) 5 10 15 20 25 30	Torque (Nm)	Remarks
1	0 0 0 0 0			
	0 0 0 0 0			
	0 0 0 0 0			
	0 0 0 0 0			
2	0 0 0 0			
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.80m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-WSM07**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	03-07-25 03-07-25	41.52	E 531,252.1 N 818,303.1

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values) 5 10 15 20 25 30	Torque (Nm)	Remarks
1	0 0 0 0 0 0 0 0 0 0 0			
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

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DYNAMIC PROBE LOG

Project	Location	PROBE No
Lot 1, Lough Talt	Co. Sligo/Mayo	**DP-WSM08**

Job No	Date	Ground Level (m OD)	Co-Ordinates ()
2024SO105	13-06-25 13-06-25	112.47	E 534,204.5 N 818,417.6

Engineer	Sheet	Status
Atkins Realis	1 of 1	FINAL

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)	Torque (Nm)	Remarks
0	4 15 12 15	5 10 15 20 25 30		
1	18 15 11 4 11 18			
2				
3				
4				
5				
6				
7				

Hammer Wt (kg)	50
Hammer Drop (mm)	500
Cone Dia (mm)	40
Cone Type	DPH
Damper	

GENERAL REMARKS

DP terminated at 1.00m bgl. Refusal.

All dimensions in metres Scale 1:50	Client: Irish Water	Method/ Plant Used: DPH Rig		Driller: JP	Logged By: JP

AGS4 DYNAMIC PROBE LOUGH TALT LOT 1 DPS ALL FILE OCT 10 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Appendix 6
Dynamic Sampling Records

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M01**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 521,968.3 N 826,595.2**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 40.29m O.D.	**DATE: 10.7.25**
GROUNDWATER **Water strikes:** **1st: dry** **2nd:** **3rd:**	**LOGGED BY: JP** **SAMPLE DIA.:**

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
							39.79	0.50	Soft brown slightly sandy slightly gravelly SILT/CLAY.
						END			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 0.50m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M02**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 523,545.4 N 822,628.1**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 32.44m O.D.	**DATE: 9.7.25**
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd:	**LOGGED BY: JP** SAMPLE DIA.:

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
									Firm brown slightly sandy SILT/CLAY.
							31.44	1.00	
1						END			
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 1.00m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M03**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 524,609.4 N 821,179.6**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 25.08m O.D.	**DATE: 9.7.25**
GROUNDWATER **Water strikes:** **1st: dry** **2nd:** **3rd:**	**LOGGED BY: JP** **SAMPLE DIA.:**

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
								1.90	Soft brown slightly sandy slightly gravelly SILT/CLAY.
1									
							23.18		
2						END			
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 1.90m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M04**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 527,430.0 N 820,470.4**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 32.73m O.D.	**DATE: 3.7.25**
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd:	**LOGGED BY: JP** SAMPLE DIA.:

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
							32.23	0.50	Brown slightly gravelly silty SAND. Sand is fine to coarse.
						END			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 0.50m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M05**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 527,695.3 N 819,889.1**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 34.87m O.D.	**DATE: 3.7.25**
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd:	**LOGGED BY: JP** SAMPLE DIA.:

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
							32.87	2.00	Soft brown fibrous PEAT.
2							31.97	2.90	Soft brown sandy fibrous PEAT.
3						END			

Remarks: DP terminated at 2.90m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M06**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 529,801.6 N 818,397.8**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 28.62m O.D.	**DATE: 3.7.25**
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd:	**LOGGED BY: JP** SAMPLE DIA.:

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
									Brown slightly gravelly silty SAND. Sand is fine to coarse.
1									
							26.82	1.80	
2						END			
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 1.80m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M07**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 531,252.1 N 818,303.1**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 41.52m O.D.	**DATE: 3.7.25**
GROUNDWATER Water strikes: 1st: dry 2nd: 3rd:	**LOGGED BY: JP** SAMPLE DIA.:

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
									Brown silty SAND. Sand is fine to medium.
							40.52	1.00	
1						END			
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 1.00m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

PROJECT: Lot 1, Lough Talt	**WINDOW BH: WS-M08**
LOCATION: Co. Sligo/Mayo	**Sheet 1 of 1**
CLIENT: Irish Water	**Co-ordinates: E 534,204.5 N 818,417.6**
ENGINEER: Atkins Realis	**Rig: DPH Rig**
Ground level: 112.47m O.D.	**DATE: 13.6.25**
GROUNDWATER **Water strikes:** **1st: dry** **2nd:** **3rd:**	**LOGGED BY: JP** **SAMPLE DIA.:**

Depth (m)	Date	Samples	Depth (m)	Instrument/Backfill	Recovery	LEGEND	Elevation m O.D.	Depth (m)	DESCRIPTION
0									
							111.47	1.00	Firm brown slightly sandy slightly gravelly SILT/CLAY.
1						END			
2									
3									
4									
5									
6									
7									
8									
9									
10									

Remarks: DP terminated at 1.00m bgl. Refusal.

Scale: 1:50

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WINDOW SAMPLER LOUGH TALT LOT 1 WS FILE 1 AUG 7 2025.GPJ ID GINT AGS 4_0_4.GDT 5/3/26

Appendix 7
Dynamic Cone Penetration (DCP) Records

Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG01

Start depth of test: 0 mm below ground level 0 m

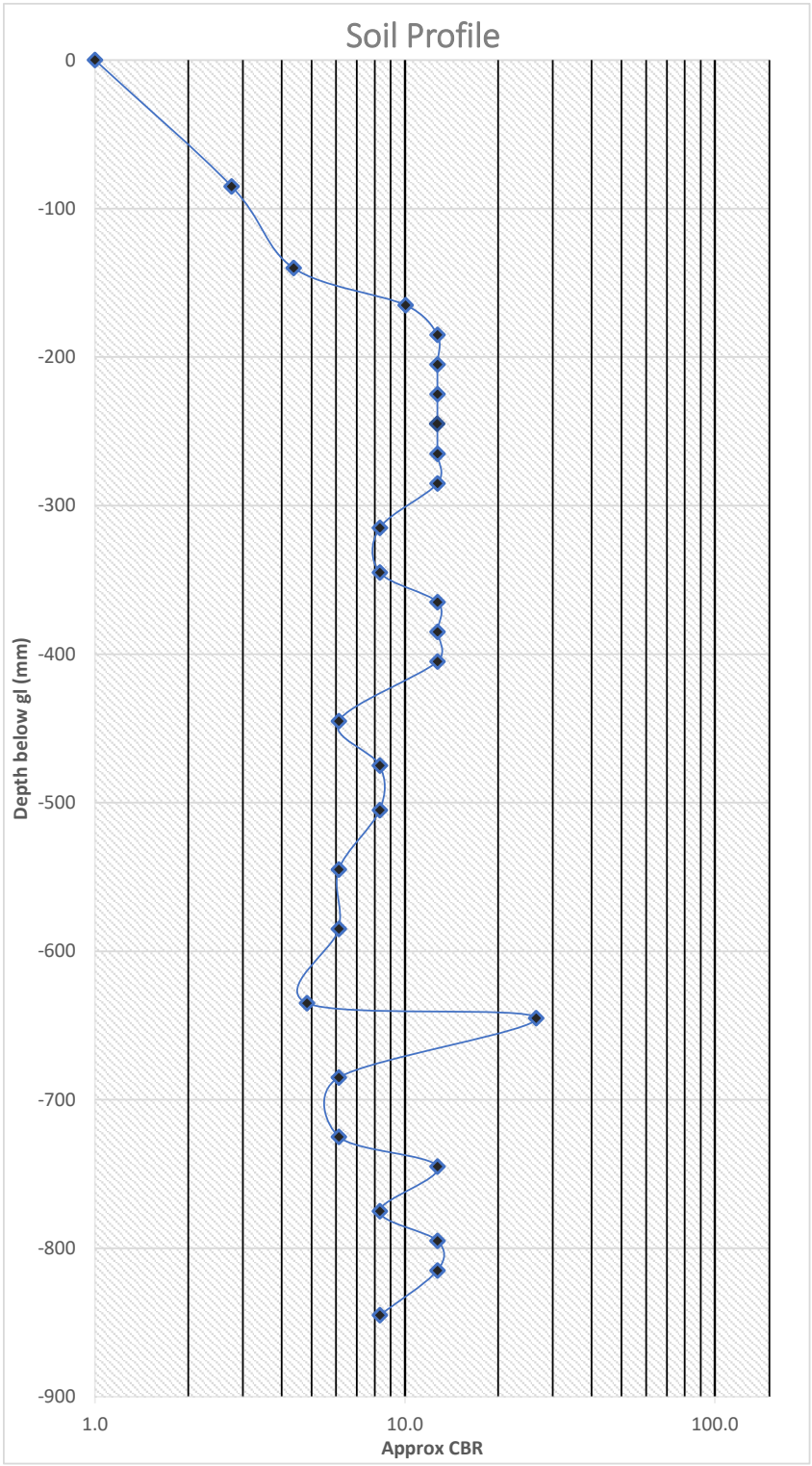
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	220	85	0.4	2.8	-85
2	275	55	0.6	4.4	-140
3	300	25	1.0	10.1	-165
4	320	20	1.1	12.7	-185
5	340	20	1.1	12.7	-205
6	360	20	1.1	12.7	-225
7	380	20	1.1	12.7	-245
8	400	20	1.1	12.7	-265
9	420	20	1.1	12.7	-285
10	450	30	0.9	8.3	-315
11	480	30	0.9	8.3	-345
12	500	20	1.1	12.7	-365
13	520	20	1.1	12.7	-385
14	540	20	1.1	12.7	-405
15	580	40	0.8	6.1	-445
16	610	30	0.9	8.3	-475
17	640	30	0.9	8.3	-505
18	680	40	0.8	6.1	-545
19	720	40	0.8	6.1	-585
20	770	50	0.7	4.8	-635
21	780	10	1.4	26.5	-645
22	820	40	0.8	6.1	-685
23	860	40	0.8	6.1	-725
24	880	20	1.1	12.7	-745
25	910	30	0.9	8.3	-775
26	930	20	1.1	12.7	-795
27	950	20	1.1	12.7	-815
28	980	30	0.9	8.3	-845
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG02

Start depth of test: 0 mm below ground level 0 m

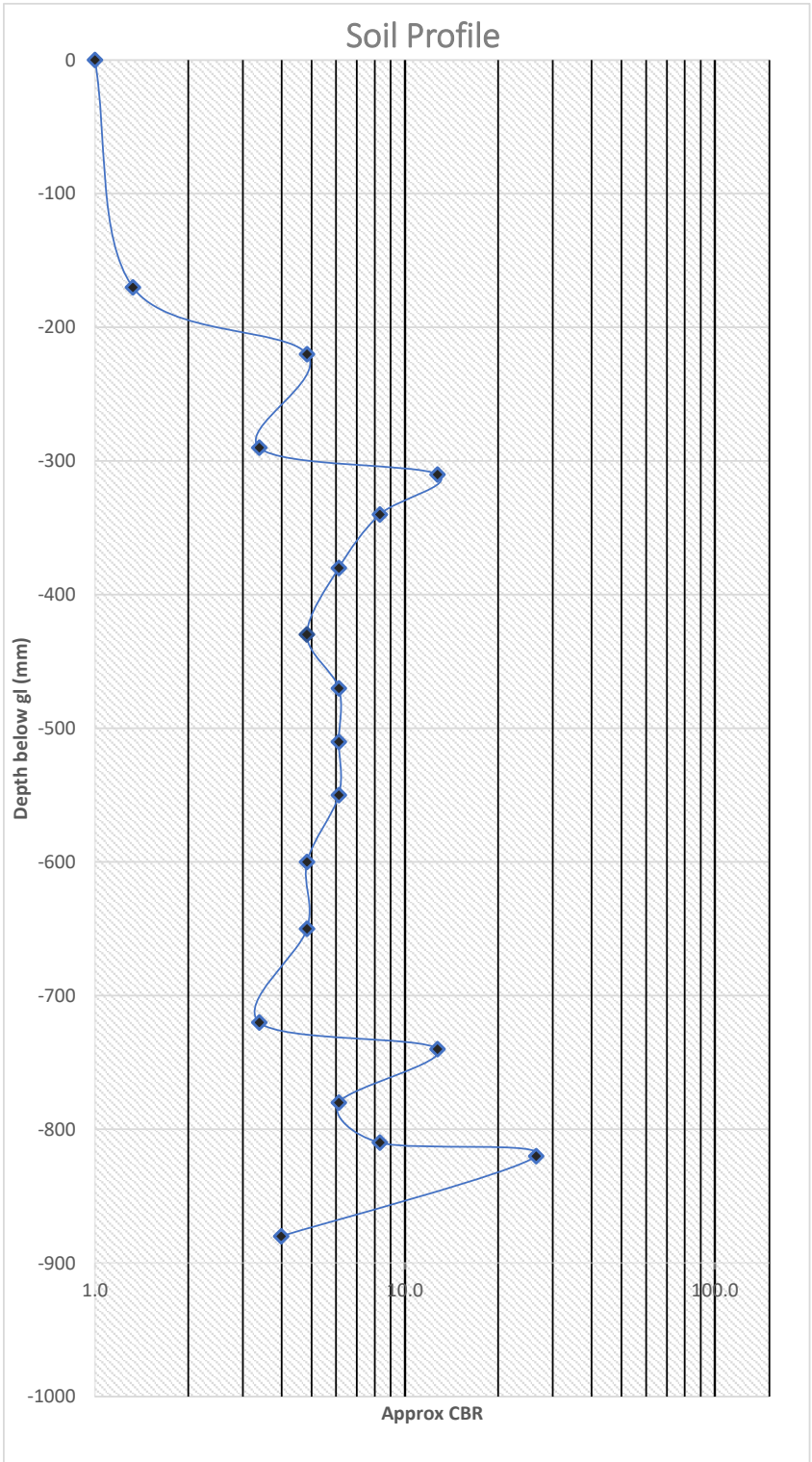
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	300	170	0.1	1.3	-170
2	350	50	0.7	4.8	-220
3	420	70	0.5	3.4	-290
4	440	20	1.1	12.7	-310
5	470	30	0.9	8.3	-340
6	510	40	0.8	6.1	-380
7	560	50	0.7	4.8	-430
8	600	40	0.8	6.1	-470
9	640	40	0.8	6.1	-510
10	680	40	0.8	6.1	-550
11	730	50	0.7	4.8	-600
12	780	50	0.7	4.8	-650
13	850	70	0.5	3.4	-720
14	870	20	1.1	12.7	-740
15	910	40	0.8	6.1	-780
16	940	30	0.9	8.3	-810
17	950	10	1.4	26.5	-820
18	1010	60	0.6	4.0	-880
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG03

Start depth of test: 0 mm below ground level 0 m

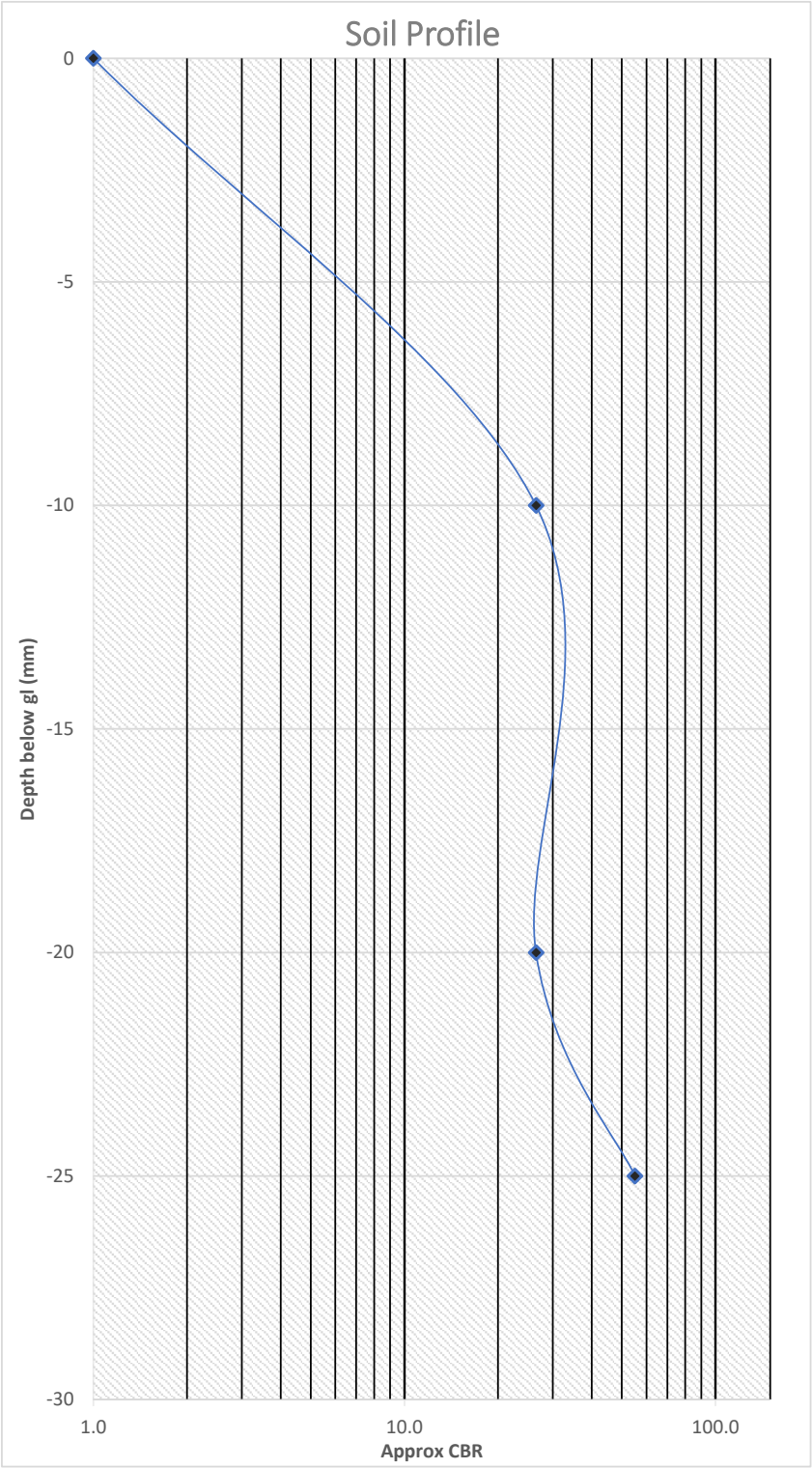
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	155	5	1.7	55.1	-25
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG04

Start depth of test: 0 mm below ground level 0 m

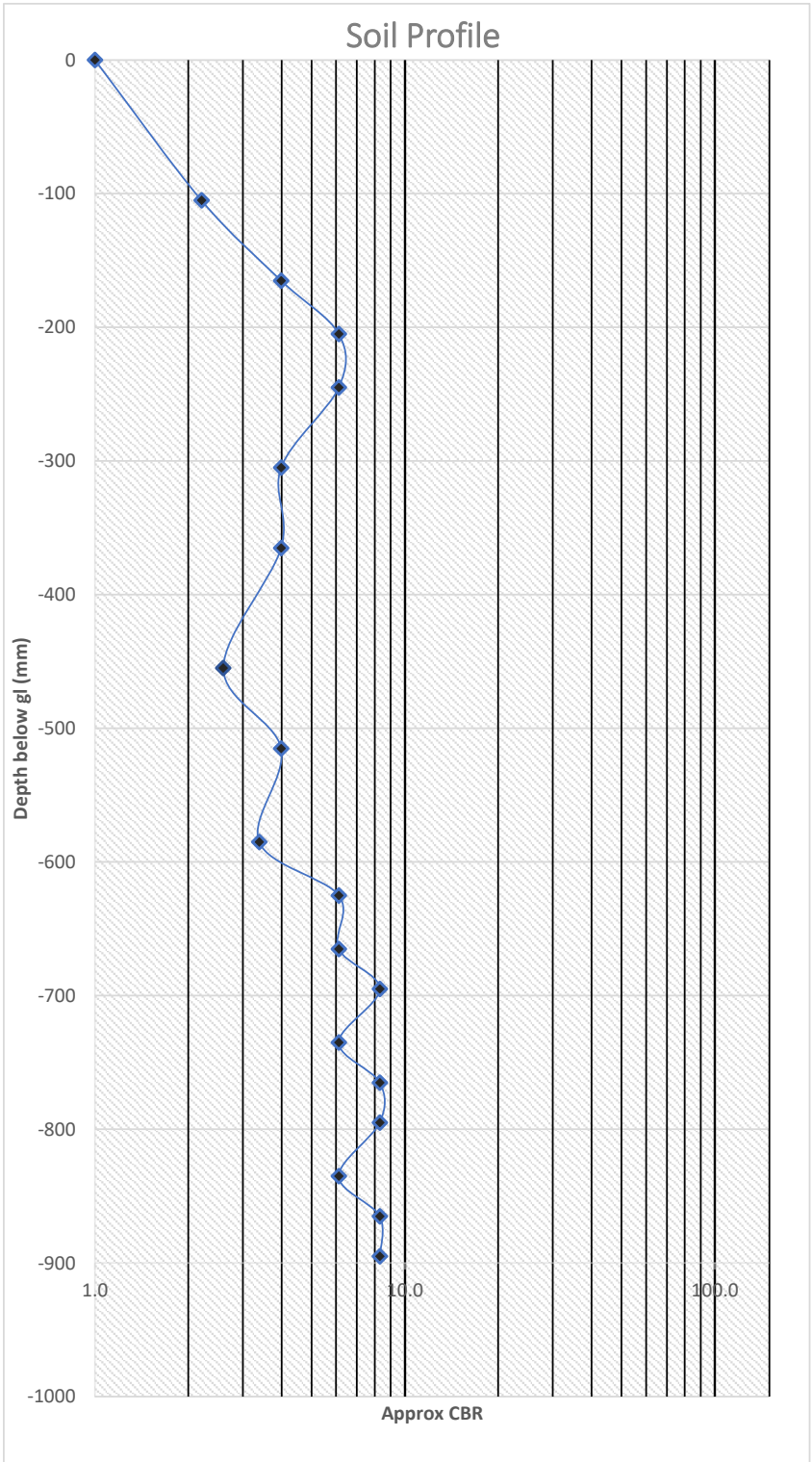
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	125	0	0.0	1.0	0
1	230	105	0.3	2.2	-105
2	290	60	0.6	4.0	-165
3	330	40	0.8	6.1	-205
4	370	40	0.8	6.1	-245
5	430	60	0.6	4.0	-305
6	490	60	0.6	4.0	-365
7	580	90	0.4	2.6	-455
8	640	60	0.6	4.0	-515
9	710	70	0.5	3.4	-585
10	750	40	0.8	6.1	-625
11	790	40	0.8	6.1	-665
12	820	30	0.9	8.3	-695
13	860	40	0.8	6.1	-735
14	890	30	0.9	8.3	-765
15	920	30	0.9	8.3	-795
16	960	40	0.8	6.1	-835
17	990	30	0.9	8.3	-865
18	1020	30	0.9	8.3	-895
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG05

Start depth of test: 0 mm below ground level 0 m

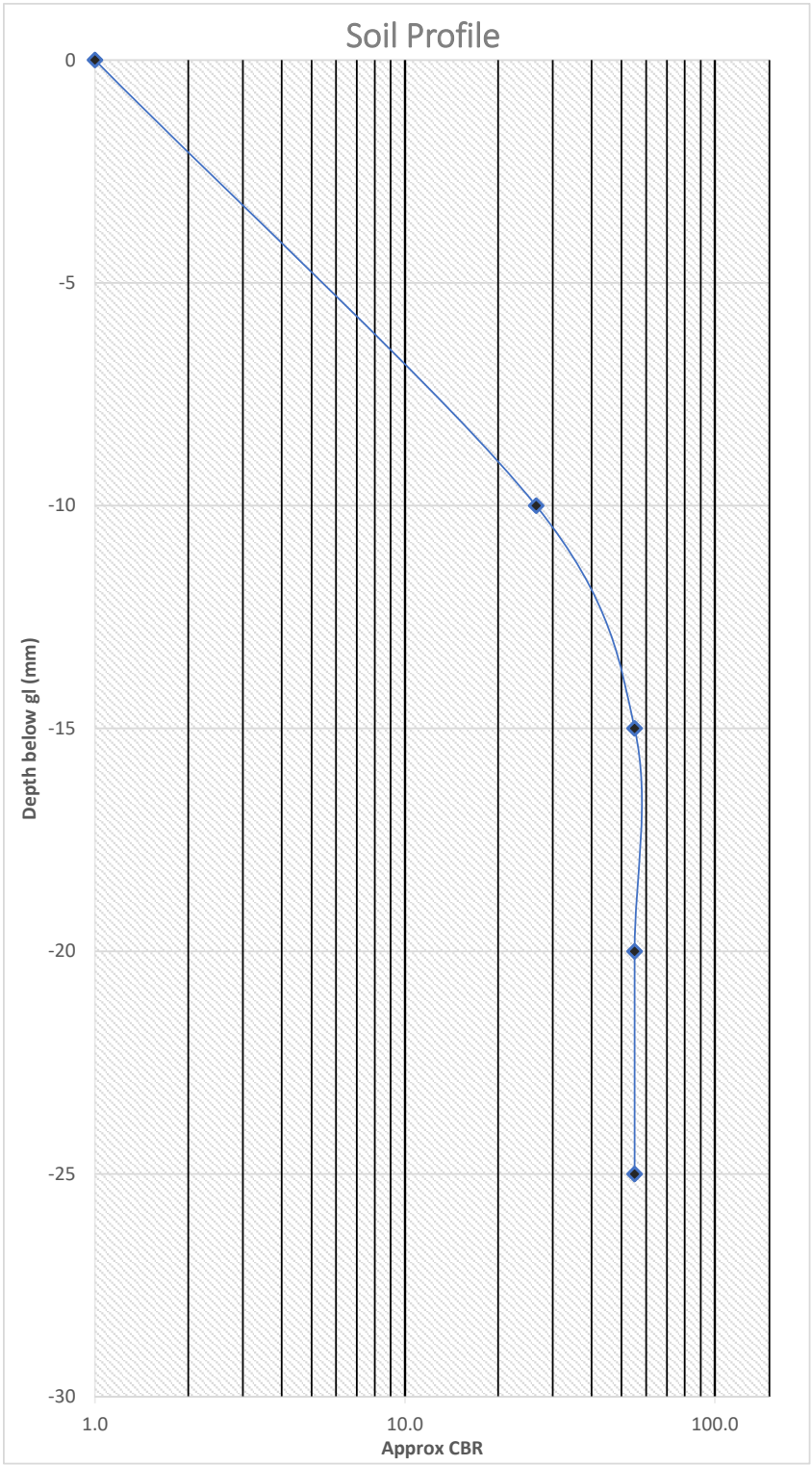
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	145	5	1.7	55.1	-15
3	150	5	1.7	55.1	-20
4	155	5	1.7	55.1	-25
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG06

Start depth of test: 0 mm below ground level 0 m

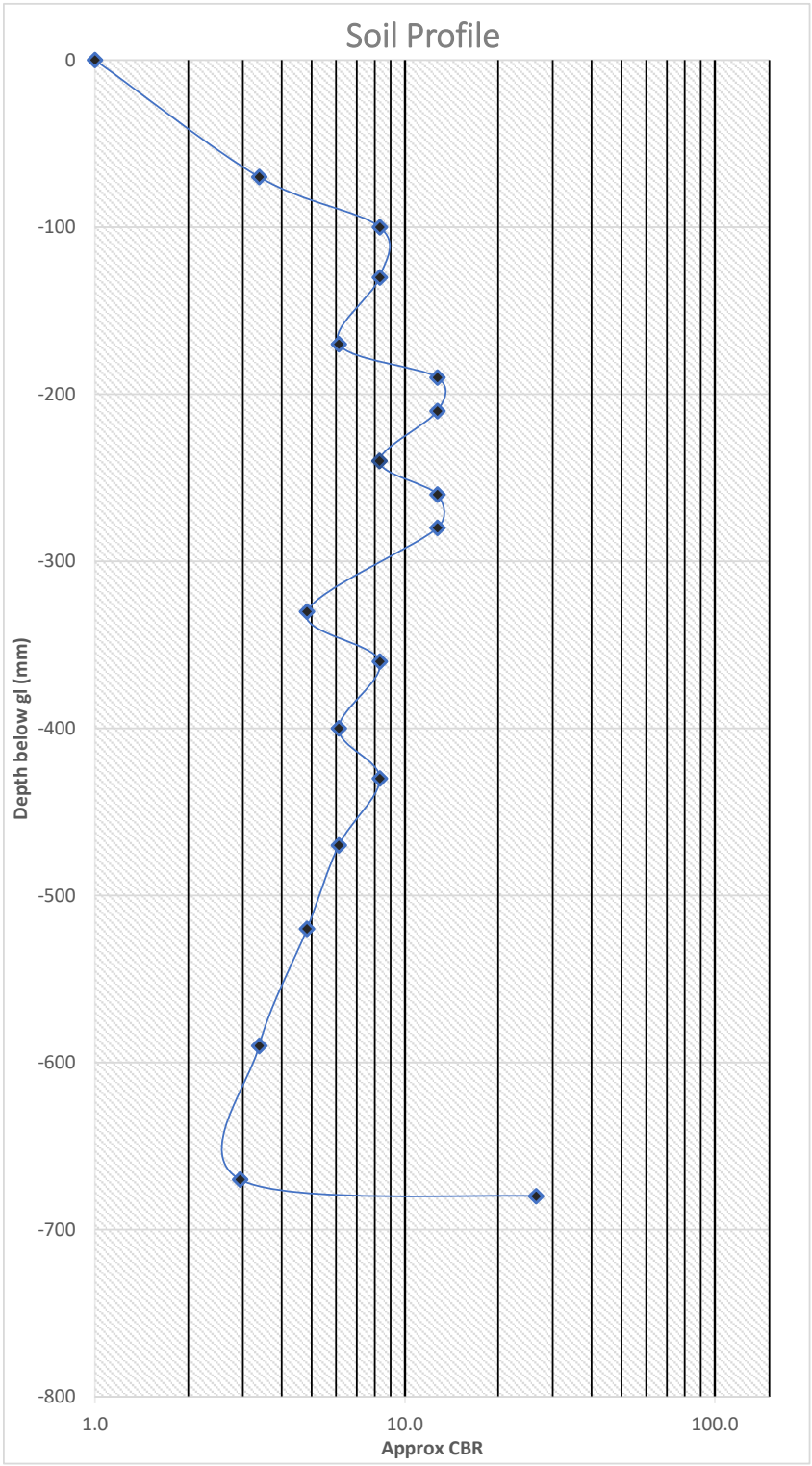
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	160	0	0.0	1.0	0
1	230	70	0.5	3.4	-70
2	260	30	0.9	8.3	-100
3	290	30	0.9	8.3	-130
4	330	40	0.8	6.1	-170
5	350	20	1.1	12.7	-190
6	370	20	1.1	12.7	-210
7	400	30	0.9	8.3	-240
8	420	20	1.1	12.7	-260
9	440	20	1.1	12.7	-280
10	490	50	0.7	4.8	-330
11	520	30	0.9	8.3	-360
12	560	40	0.8	6.1	-400
13	590	30	0.9	8.3	-430
14	630	40	0.8	6.1	-470
15	680	50	0.7	4.8	-520
16	750	70	0.5	3.4	-590
17	830	80	0.5	2.9	-670
18	840	10	1.4	26.5	-680
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG07

Start depth of test: 0 mm below ground level 0 m

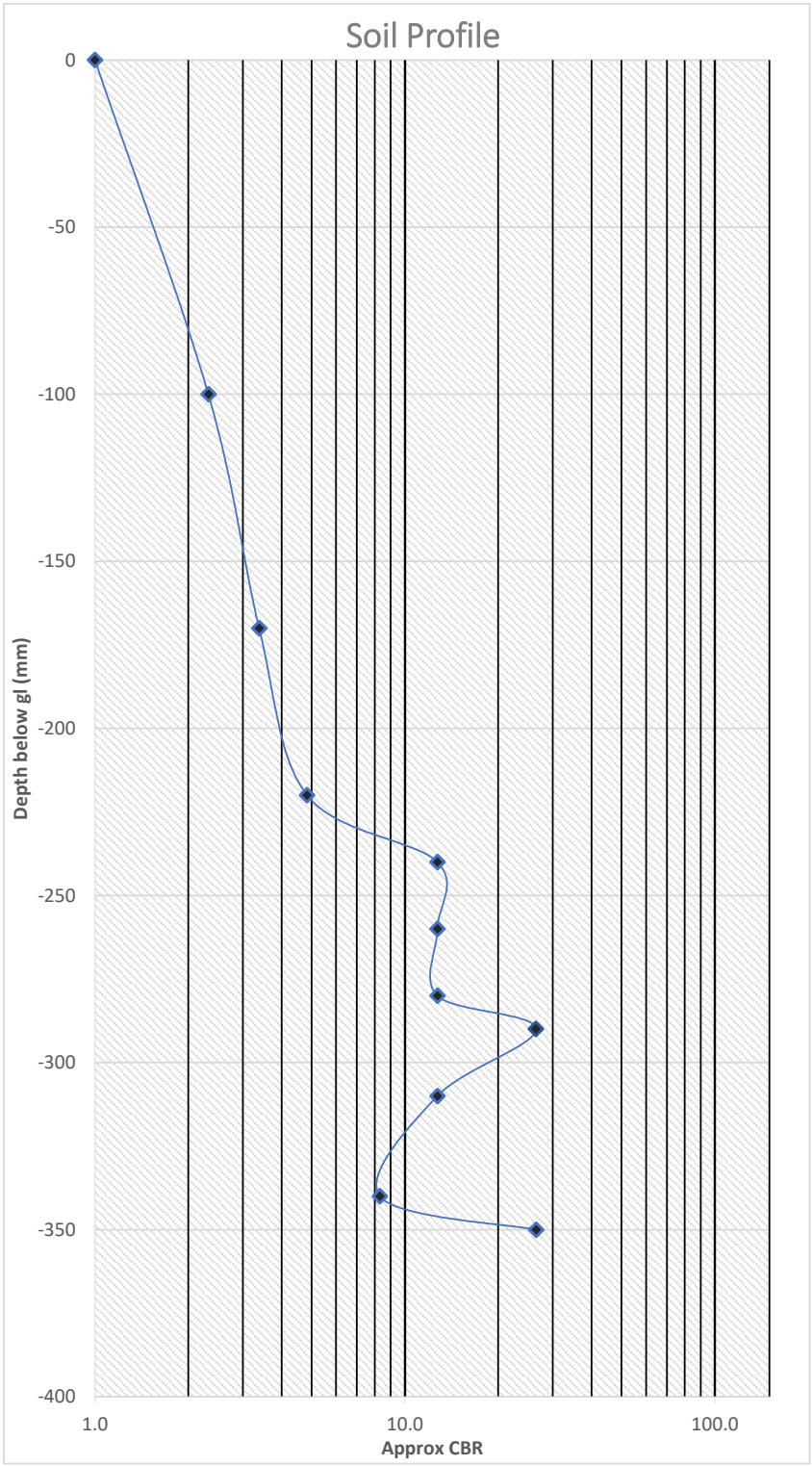
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	230	100	0.4	2.3	-100
2	300	70	0.5	3.4	-170
3	350	50	0.7	4.8	-220
4	370	20	1.1	12.7	-240
5	390	20	1.1	12.7	-260
6	410	20	1.1	12.7	-280
7	420	10	1.4	26.5	-290
8	440	20	1.1	12.7	-310
9	470	30	0.9	8.3	-340
10	480	10	1.4	26.5	-350
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG08

Start depth of test: 0 mm below ground level 0 m

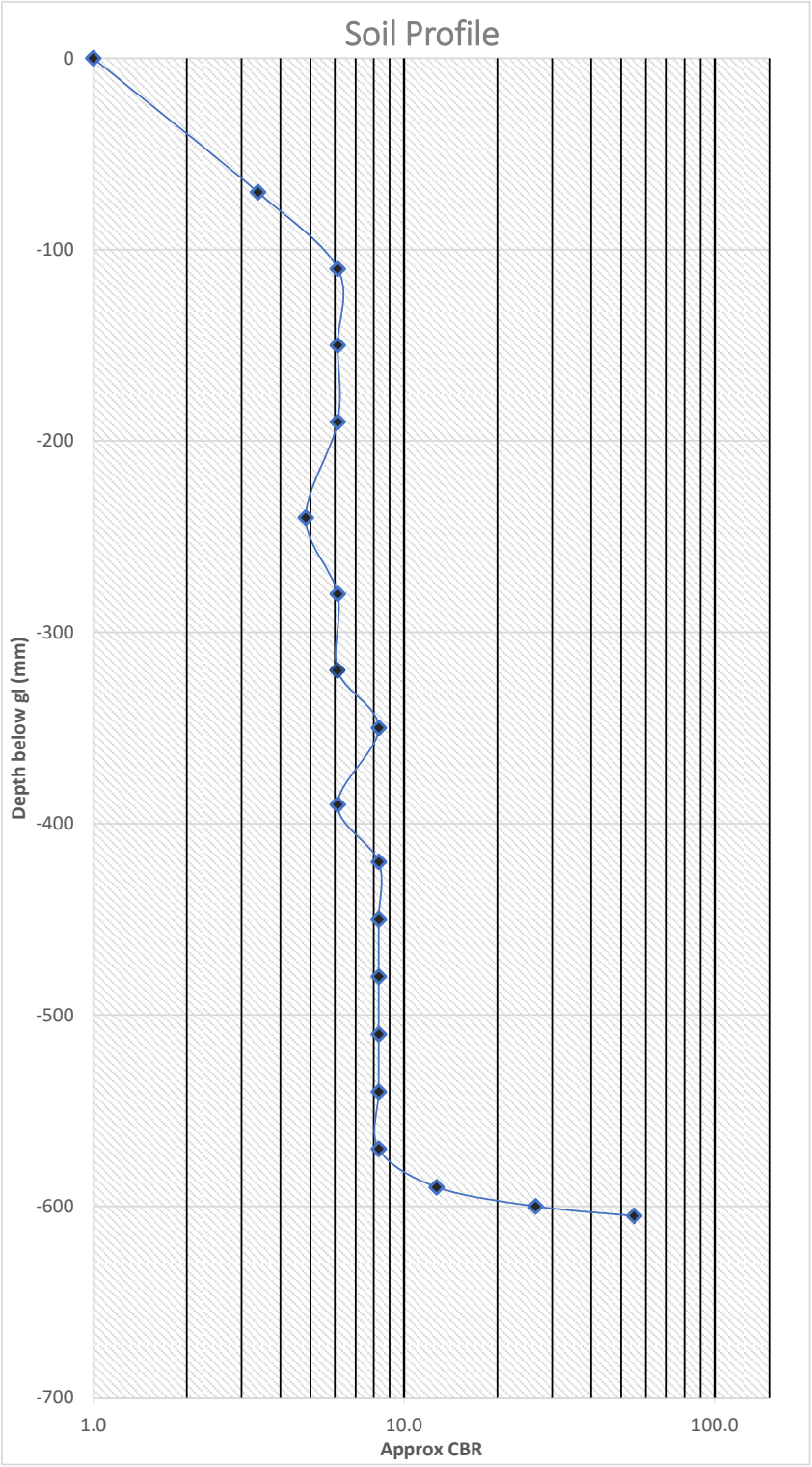
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	120	0	0.0	1.0	0
1	190	70	0.5	3.4	-70
2	230	40	0.8	6.1	-110
3	270	40	0.8	6.1	-150
4	310	40	0.8	6.1	-190
5	360	50	0.7	4.8	-240
6	400	40	0.8	6.1	-280
7	440	40	0.8	6.1	-320
8	470	30	0.9	8.3	-350
9	510	40	0.8	6.1	-390
10	540	30	0.9	8.3	-420
11	570	30	0.9	8.3	-450
12	600	30	0.9	8.3	-480
13	630	30	0.9	8.3	-510
14	660	30	0.9	8.3	-540
15	690	30	0.9	8.3	-570
16	710	20	1.1	12.7	-590
17	720	10	1.4	26.5	-600
18	725	5	1.7	55.1	-605
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG09

Start depth of test: 0 mm below ground level 0 m

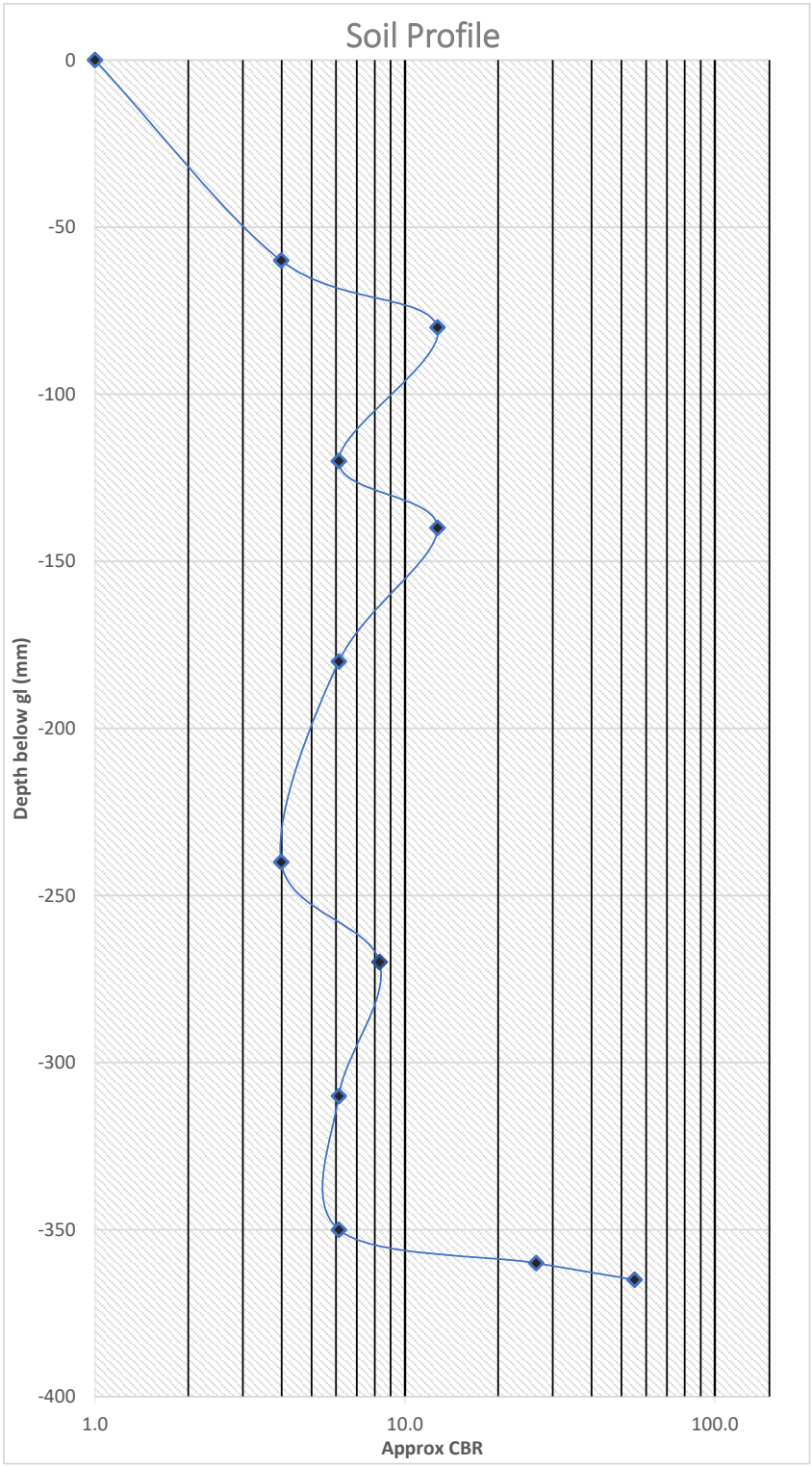
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	200	60	0.6	4.0	-60
2	220	20	1.1	12.7	-80
3	260	40	0.8	6.1	-120
4	280	20	1.1	12.7	-140
5	320	40	0.8	6.1	-180
6	380	60	0.6	4.0	-240
7	410	30	0.9	8.3	-270
8	450	40	0.8	6.1	-310
9	490	40	0.8	6.1	-350
10	500	10	1.4	26.5	-360
11	505	5	1.7	55.1	-365
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLG10

Start depth of test: 0 mm below ground level 0 m

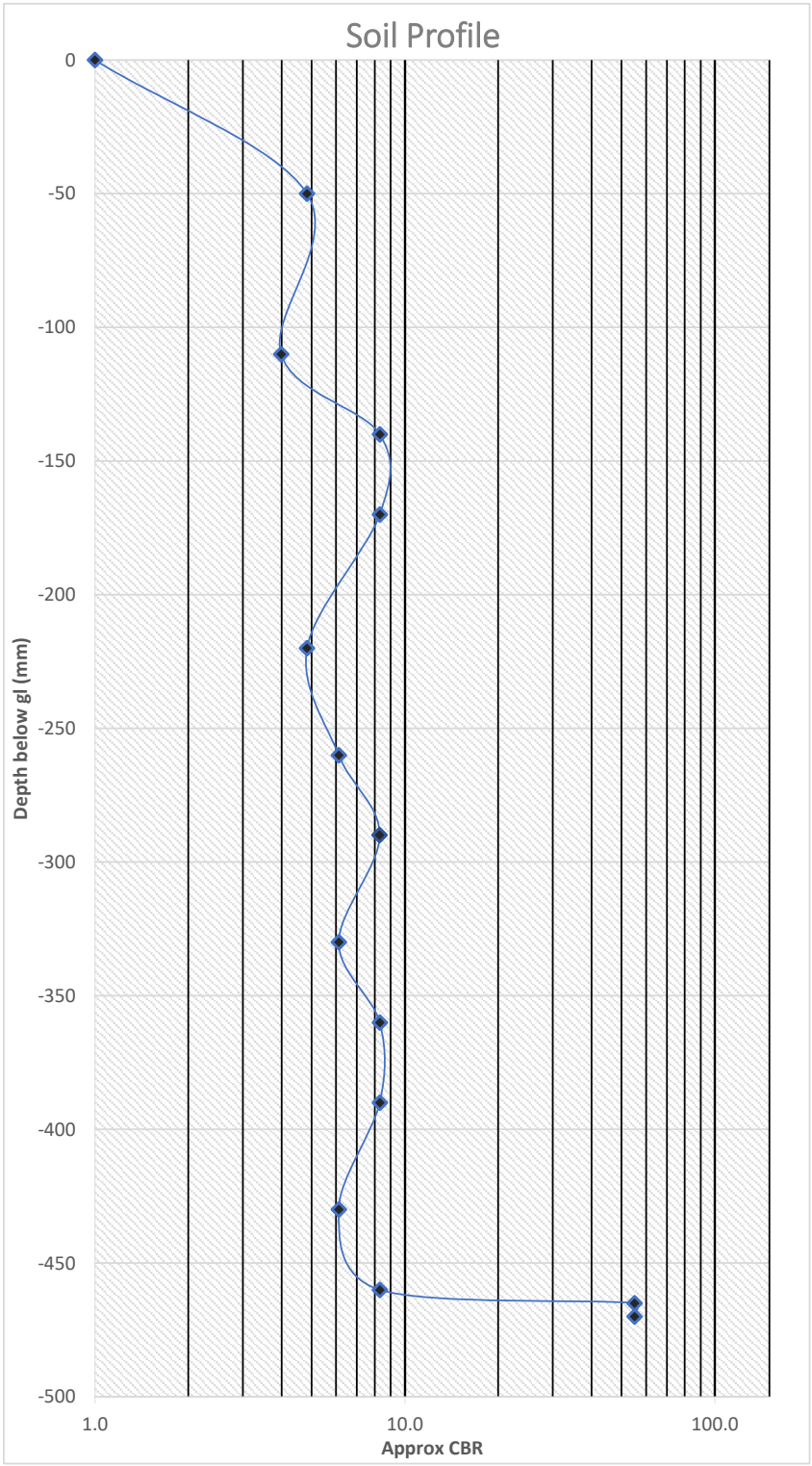
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	180	50	0.7	4.8	-50
2	240	60	0.6	4.0	-110
3	270	30	0.9	8.3	-140
4	300	30	0.9	8.3	-170
5	350	50	0.7	4.8	-220
6	390	40	0.8	6.1	-260
7	420	30	0.9	8.3	-290
8	460	40	0.8	6.1	-330
9	490	30	0.9	8.3	-360
10	520	30	0.9	8.3	-390
11	560	40	0.8	6.1	-430
12	590	30	0.9	8.3	-460
13	595	5	1.7	55.1	-465
14	600	5	1.7	55.1	-470
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TP LR01

Start depth of test: 0 mm below ground level 0 m

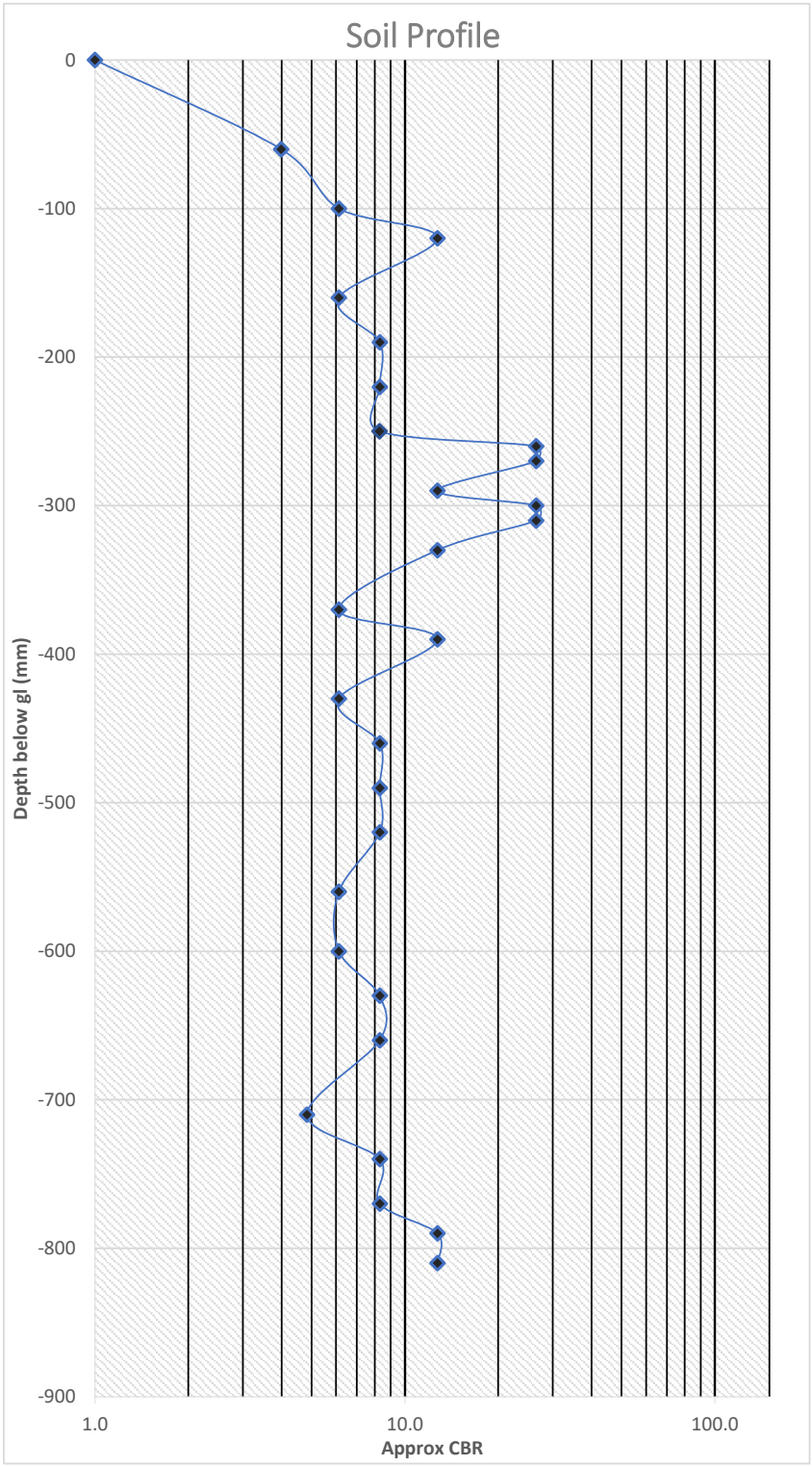
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	110	0	0.0	1.0	0
1	170	60	0.6	4.0	-60
2	210	40	0.8	6.1	-100
3	230	20	1.1	12.7	-120
4	270	40	0.8	6.1	-160
5	300	30	0.9	8.3	-190
6	330	30	0.9	8.3	-220
7	360	30	0.9	8.3	-250
8	370	10	1.4	26.5	-260
9	380	10	1.4	26.5	-270
10	400	20	1.1	12.7	-290
11	410	10	1.4	26.5	-300
12	420	10	1.4	26.5	-310
13	440	20	1.1	12.7	-330
14	480	40	0.8	6.1	-370
15	500	20	1.1	12.7	-390
16	540	40	0.8	6.1	-430
17	570	30	0.9	8.3	-460
18	600	30	0.9	8.3	-490
19	630	30	0.9	8.3	-520
20	670	40	0.8	6.1	-560
21	710	40	0.8	6.1	-600
22	740	30	0.9	8.3	-630
23	770	30	0.9	8.3	-660
24	820	50	0.7	4.8	-710
25	850	30	0.9	8.3	-740
26	880	30	0.9	8.3	-770
27	900	20	1.1	12.7	-790
28	920	20	1.1	12.7	-810

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLR02

Start depth of test: 0 mm below ground level 0 m

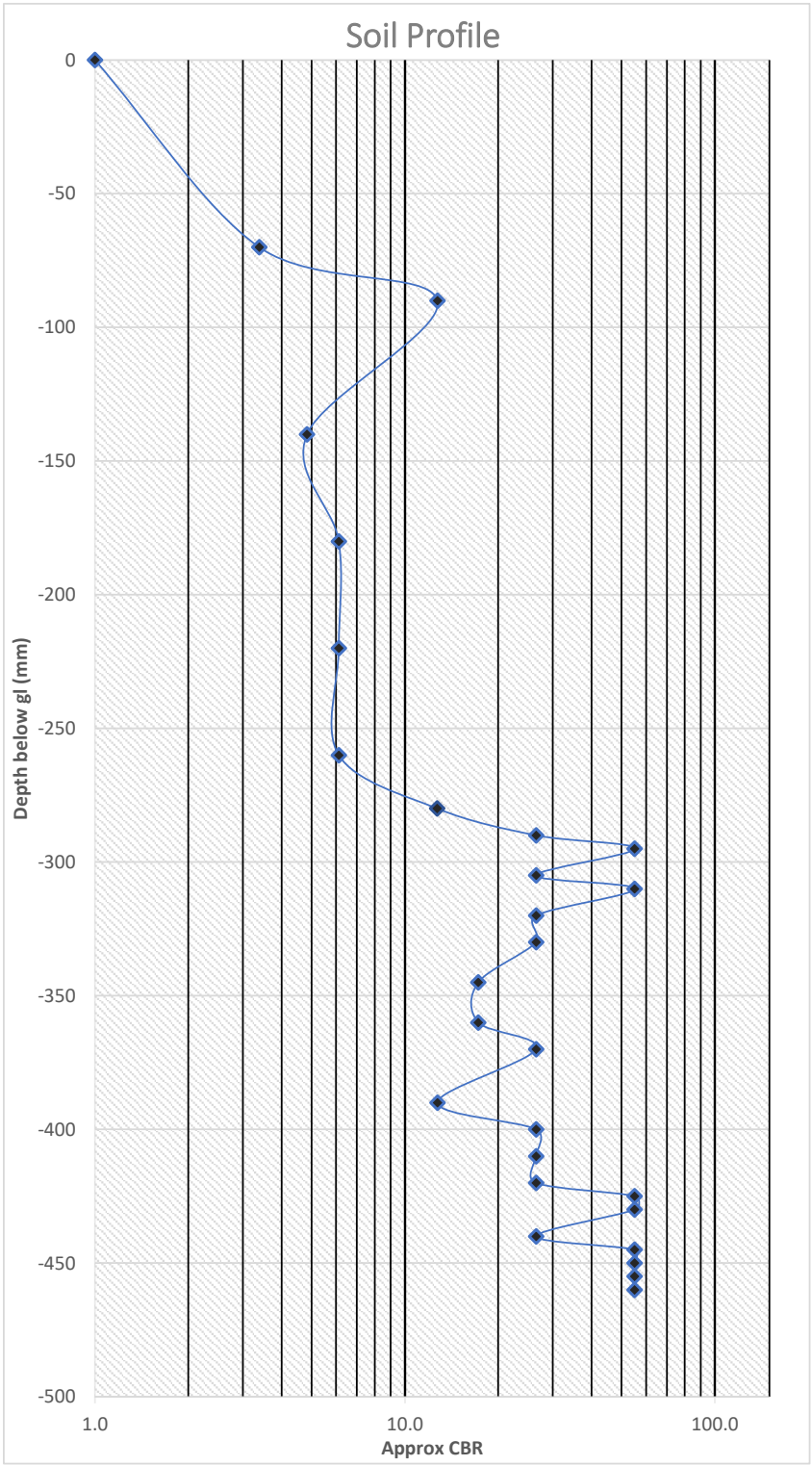
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	120	0	0.0	1.0	0
1	190	70	0.5	3.4	-70
2	210	20	1.1	12.7	-90
3	260	50	0.7	4.8	-140
4	300	40	0.8	6.1	-180
5	340	40	0.8	6.1	-220
6	380	40	0.8	6.1	-260
7	400	20	1.1	12.7	-280
8	410	10	1.4	26.5	-290
9	415	5	1.7	55.1	-295
10	425	10	1.4	26.5	-305
11	430	5	1.7	55.1	-310
12	440	10	1.4	26.5	-320
13	450	10	1.4	26.5	-330
14	465	15	1.2	17.3	-345
15	480	15	1.2	17.3	-360
16	490	10	1.4	26.5	-370
17	510	20	1.1	12.7	-390
18	520	10	1.4	26.5	-400
19	530	10	1.4	26.5	-410
20	540	10	1.4	26.5	-420
21	545	5	1.7	55.1	-425
22	550	5	1.7	55.1	-430
23	560	10	1.4	26.5	-440
24	565	5	1.7	55.1	-445
25	570	5	1.7	55.1	-450
26	575	5	1.7	55.1	-455
27	580	5	1.7	55.1	-460
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLR03

Start depth of test: 0 mm below ground level 0 m

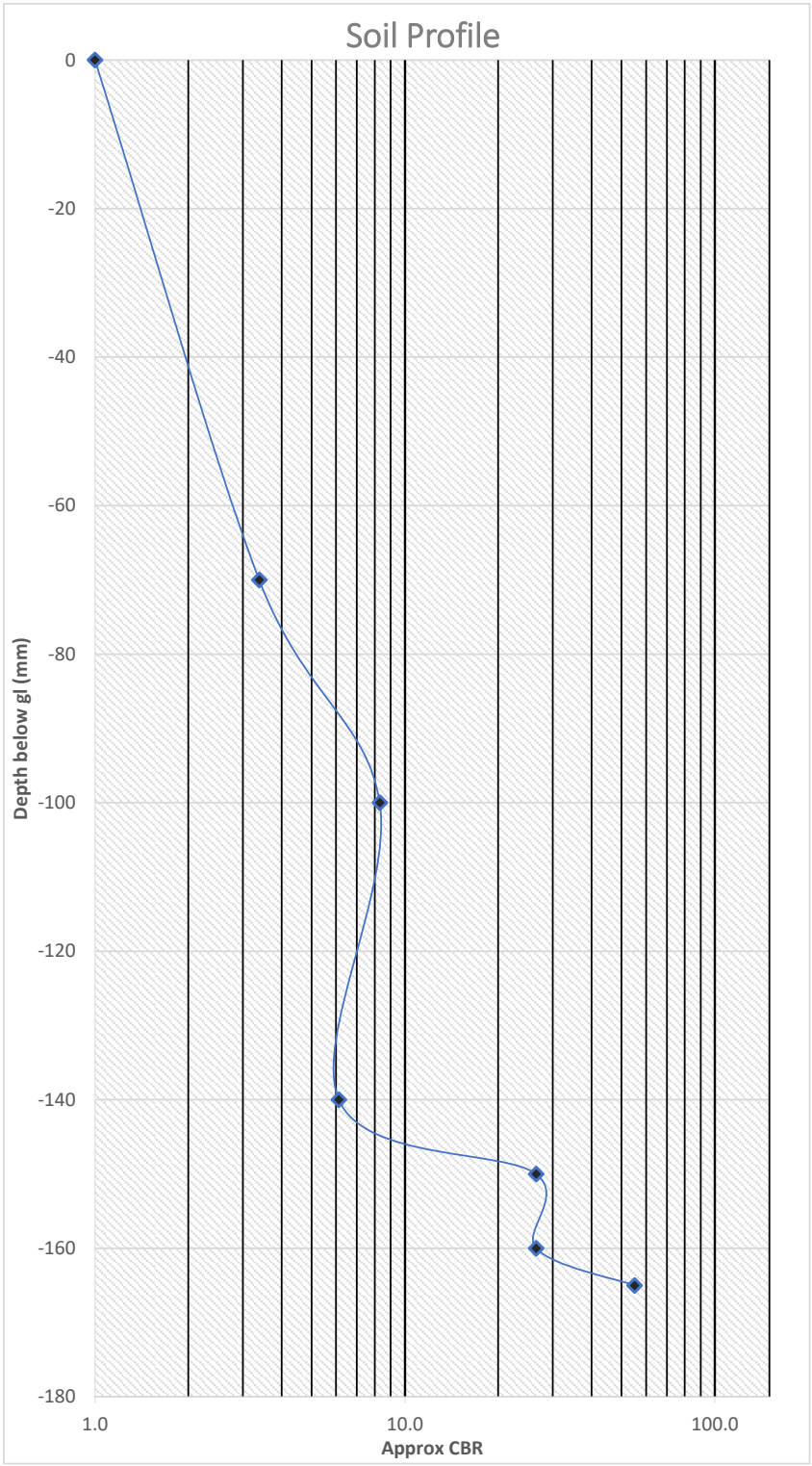
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	110	0	0.0	1.0	0
1	180	70	0.5	3.4	-70
2	210	30	0.9	8.3	-100
3	250	40	0.8	6.1	-140
4	260	10	1.4	26.5	-150
5	270	10	1.4	26.5	-160
6	275	5	1.7	55.1	-165
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLR04

Start depth of test: 0 mm below ground level 0 m

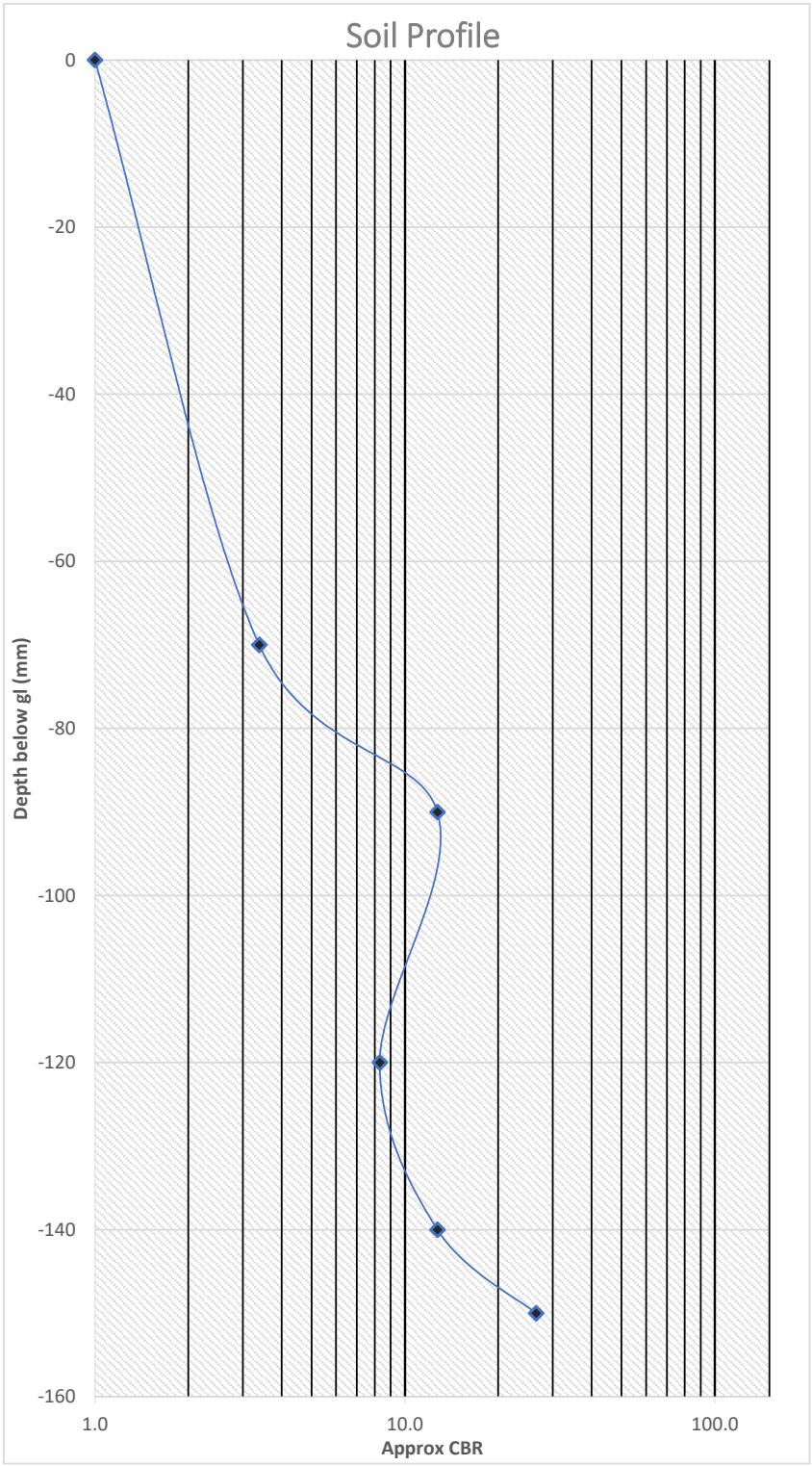
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	110	0	0.0	1.0	0
1	180	70	0.5	3.4	-70
2	200	20	1.1	12.7	-90
3	230	30	0.9	8.3	-120
4	250	20	1.1	12.7	-140
5	260	10	1.4	26.5	-150
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLR05

Start depth of test: 0 mm below ground level 0 m

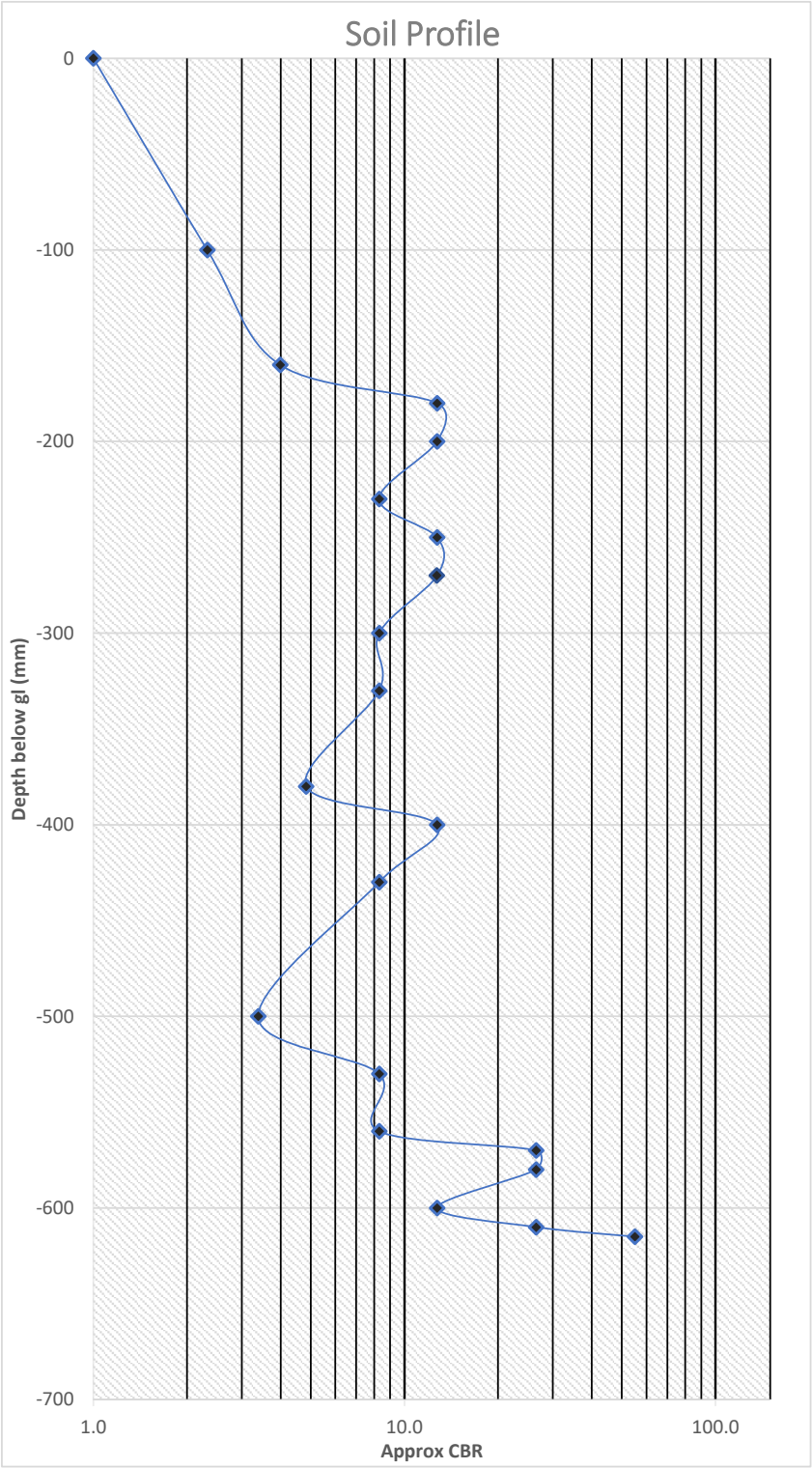
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	110	0	0.0	1.0	0
1	210	100	0.4	2.3	-100
2	270	60	0.6	4.0	-160
3	290	20	1.1	12.7	-180
4	310	20	1.1	12.7	-200
5	340	30	0.9	8.3	-230
6	360	20	1.1	12.7	-250
7	380	20	1.1	12.7	-270
8	410	30	0.9	8.3	-300
9	440	30	0.9	8.3	-330
10	490	50	0.7	4.8	-380
11	510	20	1.1	12.7	-400
12	540	30	0.9	8.3	-430
13	610	70	0.5	3.4	-500
14	640	30	0.9	8.3	-530
15	670	30	0.9	8.3	-560
16	680	10	1.4	26.5	-570
17	690	10	1.4	26.5	-580
18	710	20	1.1	12.7	-600
19	720	10	1.4	26.5	-610
20	725	5	1.7	55.1	-615
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPLR06

Start depth of test: 0 mm below ground level 0 m

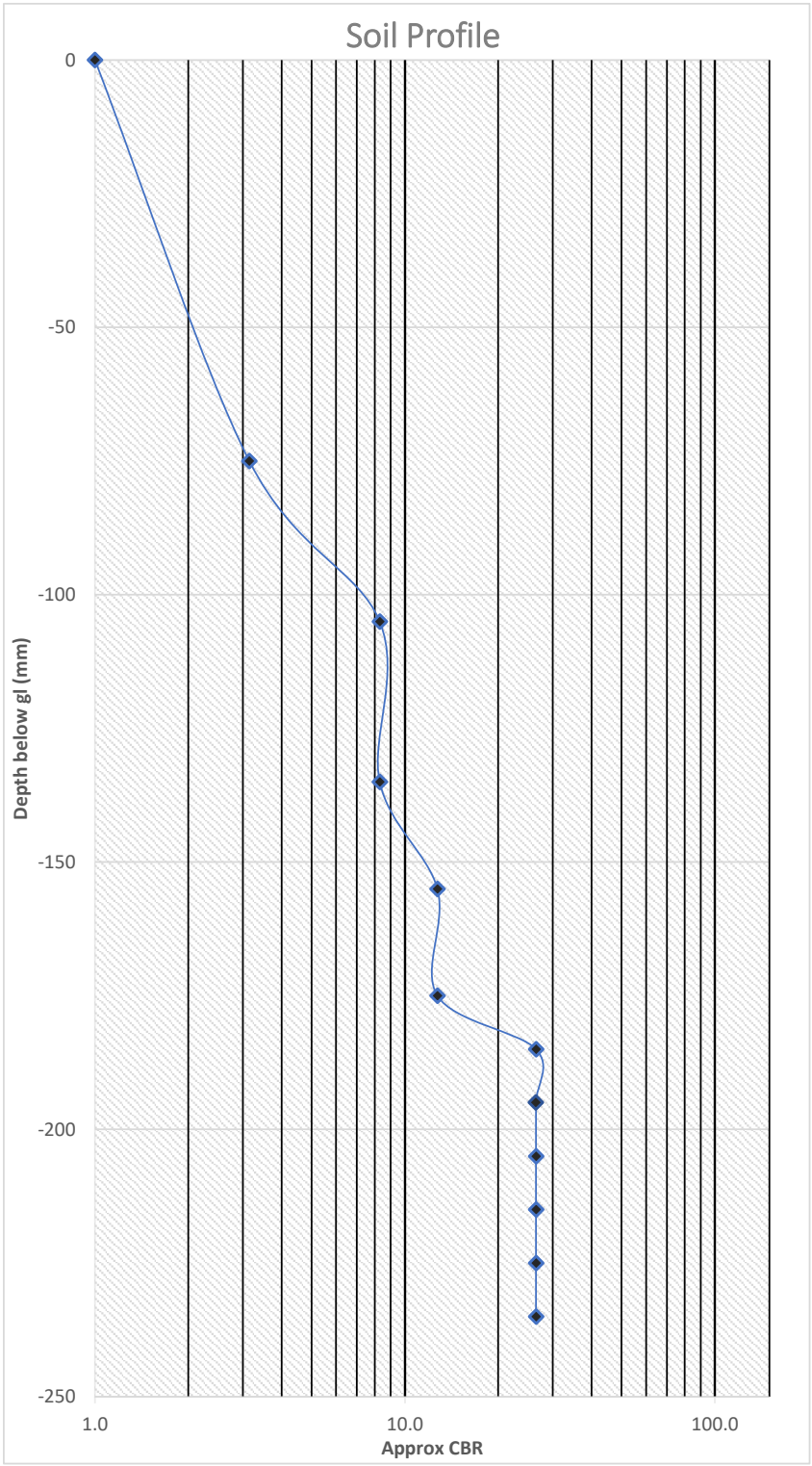
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	145	0	0.0	1.0	0
1	220	75	0.5	3.1	-75
2	250	30	0.9	8.3	-105
3	280	30	0.9	8.3	-135
4	300	20	1.1	12.7	-155
5	320	20	1.1	12.7	-175
6	330	10	1.4	26.5	-185
7	340	10	1.4	26.5	-195
8	350	10	1.4	26.5	-205
9	360	10	1.4	26.5	-215
10	370	10	1.4	26.5	-225
11	380	10	1.4	26.5	-235
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM01

Start depth of test: 0 mm below ground level 0 m

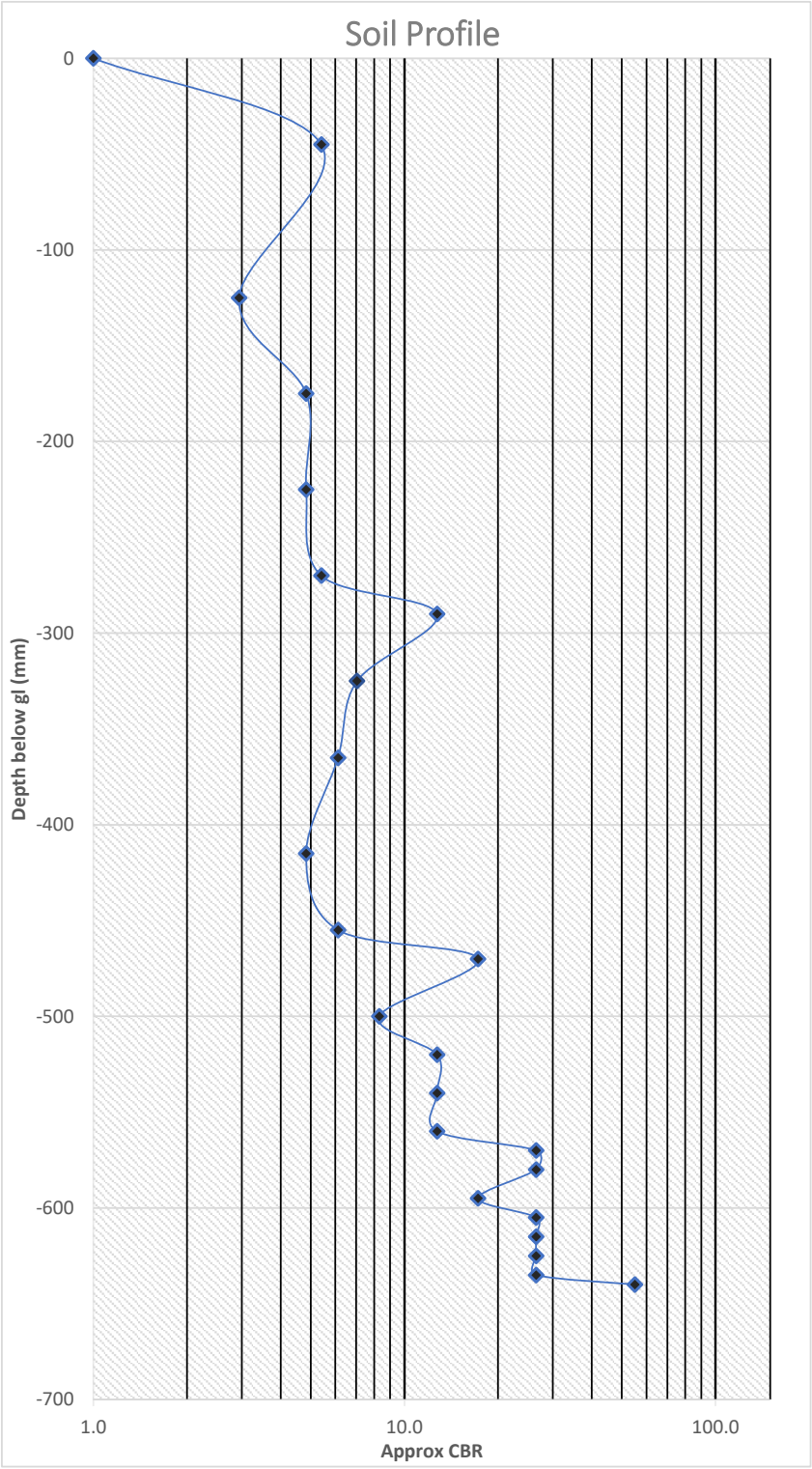
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	180	45	0.7	5.4	-45
2	260	80	0.5	2.9	-125
3	310	50	0.7	4.8	-175
4	360	50	0.7	4.8	-225
5	405	45	0.7	5.4	-270
6	425	20	1.1	12.7	-290
7	460	35	0.8	7.0	-325
8	500	40	0.8	6.1	-365
9	550	50	0.7	4.8	-415
10	590	40	0.8	6.1	-455
11	605	15	1.2	17.3	-470
12	635	30	0.9	8.3	-500
13	655	20	1.1	12.7	-520
14	675	20	1.1	12.7	-540
15	695	20	1.1	12.7	-560
16	705	10	1.4	26.5	-570
17	715	10	1.4	26.5	-580
18	730	15	1.2	17.3	-595
19	740	10	1.4	26.5	-605
20	750	10	1.4	26.5	-615
21	760	10	1.4	26.5	-625
22	770	10	1.4	26.5	-635
23	775	5	1.7	55.1	-640
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM02

Start depth of test: 0 mm below ground level 0 m

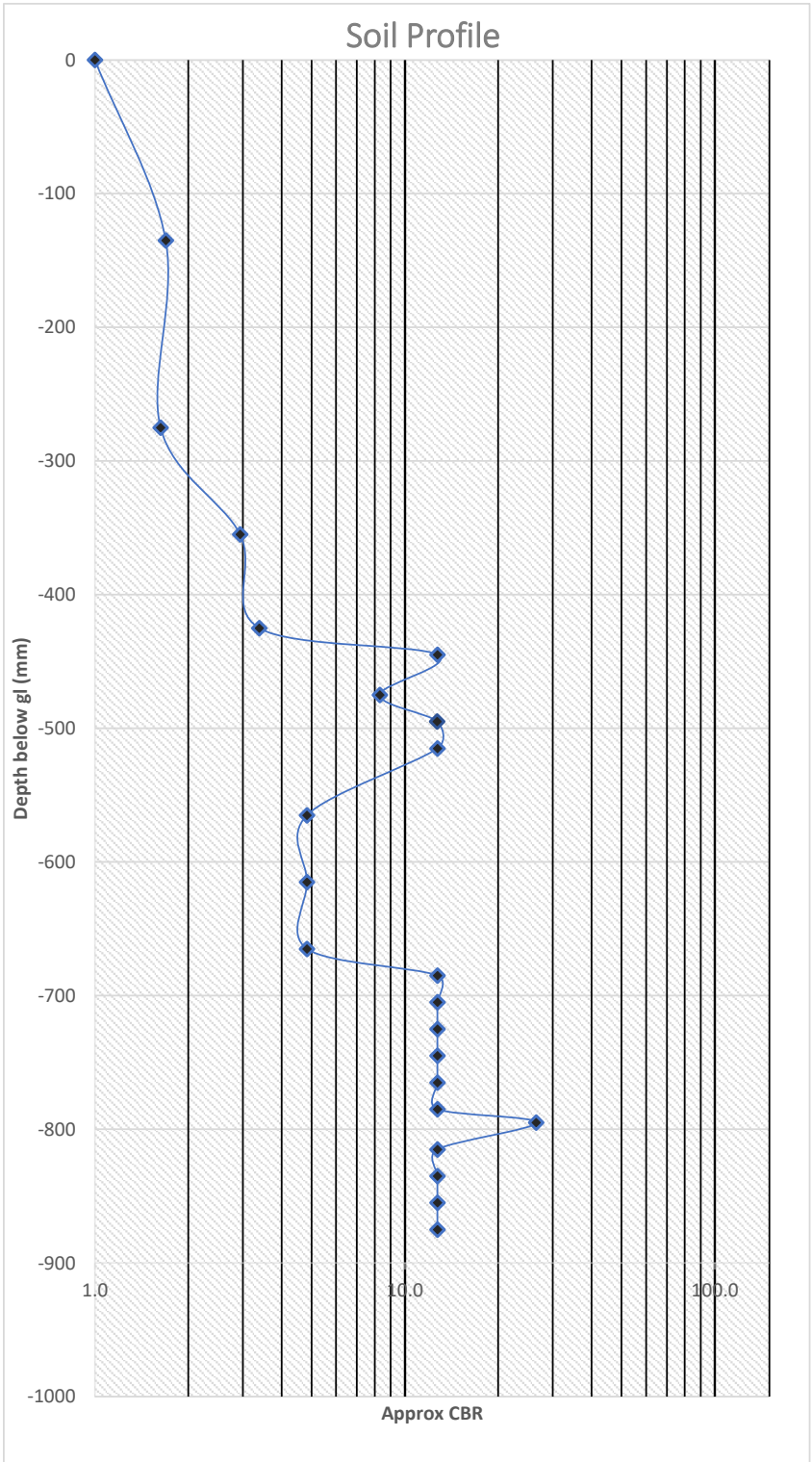
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	270	135	0.2	1.7	-135
2	410	140	0.2	1.6	-275
3	490	80	0.5	2.9	-355
4	560	70	0.5	3.4	-425
5	580	20	1.1	12.7	-445
6	610	30	0.9	8.3	-475
7	630	20	1.1	12.7	-495
8	650	20	1.1	12.7	-515
9	700	50	0.7	4.8	-565
10	750	50	0.7	4.8	-615
11	800	50	0.7	4.8	-665
12	820	20	1.1	12.7	-685
13	840	20	1.1	12.7	-705
14	860	20	1.1	12.7	-725
15	880	20	1.1	12.7	-745
16	900	20	1.1	12.7	-765
17	920	20	1.1	12.7	-785
18	930	10	1.4	26.5	-795
19	950	20	1.1	12.7	-815
20	970	20	1.1	12.7	-835
21	990	20	1.1	12.7	-855
22	1010	20	1.1	12.7	-875
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM03

Start depth of test: 0 mm below ground level 0 m

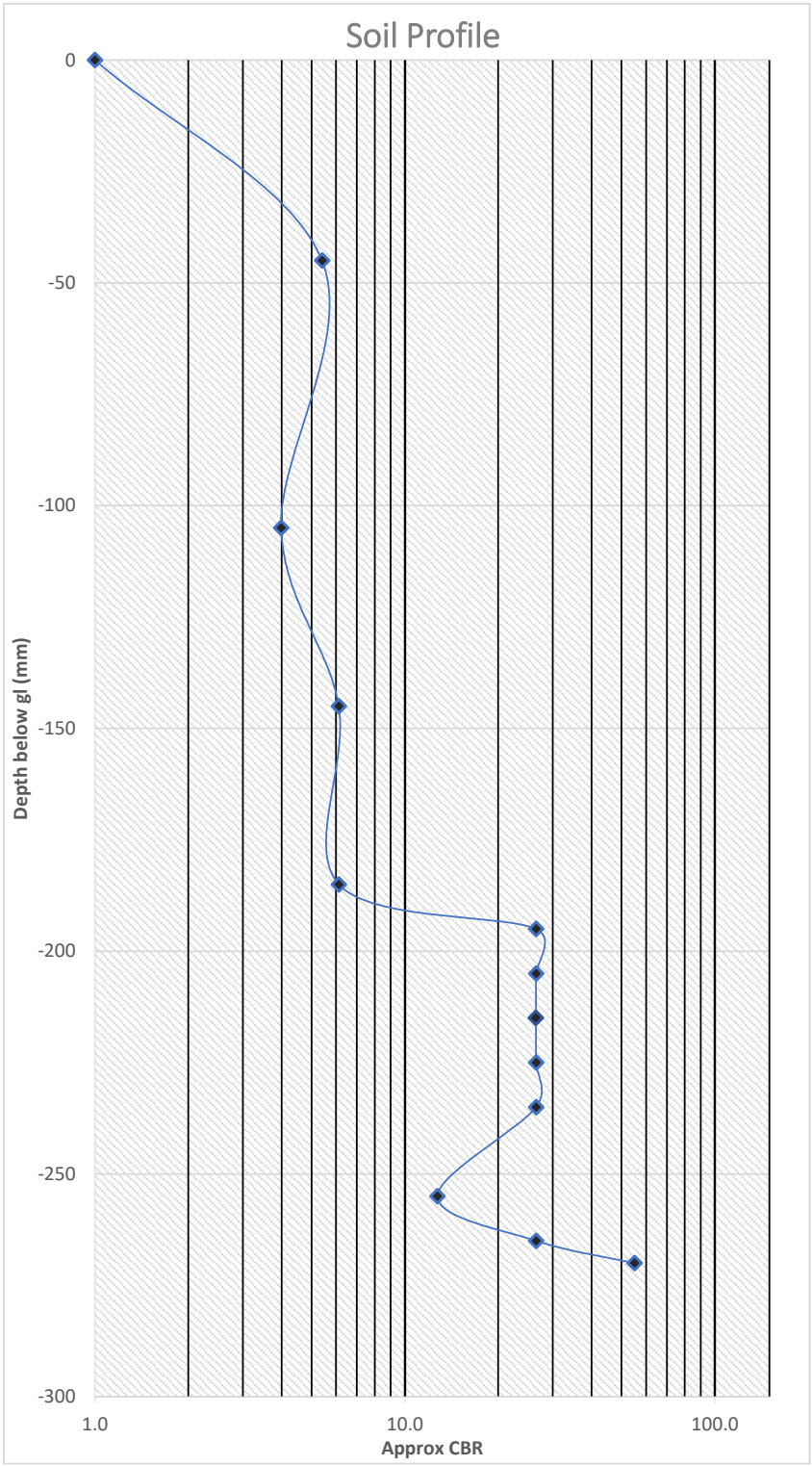
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	180	45	0.7	5.4	-45
2	240	60	0.6	4.0	-105
3	280	40	0.8	6.1	-145
4	320	40	0.8	6.1	-185
5	330	10	1.4	26.5	-195
6	340	10	1.4	26.5	-205
7	350	10	1.4	26.5	-215
8	360	10	1.4	26.5	-225
9	370	10	1.4	26.5	-235
10	390	20	1.1	12.7	-255
11	400	10	1.4	26.5	-265
12	405	5	1.7	55.1	-270
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM04

Start depth of test: 0 mm below ground level 0 m

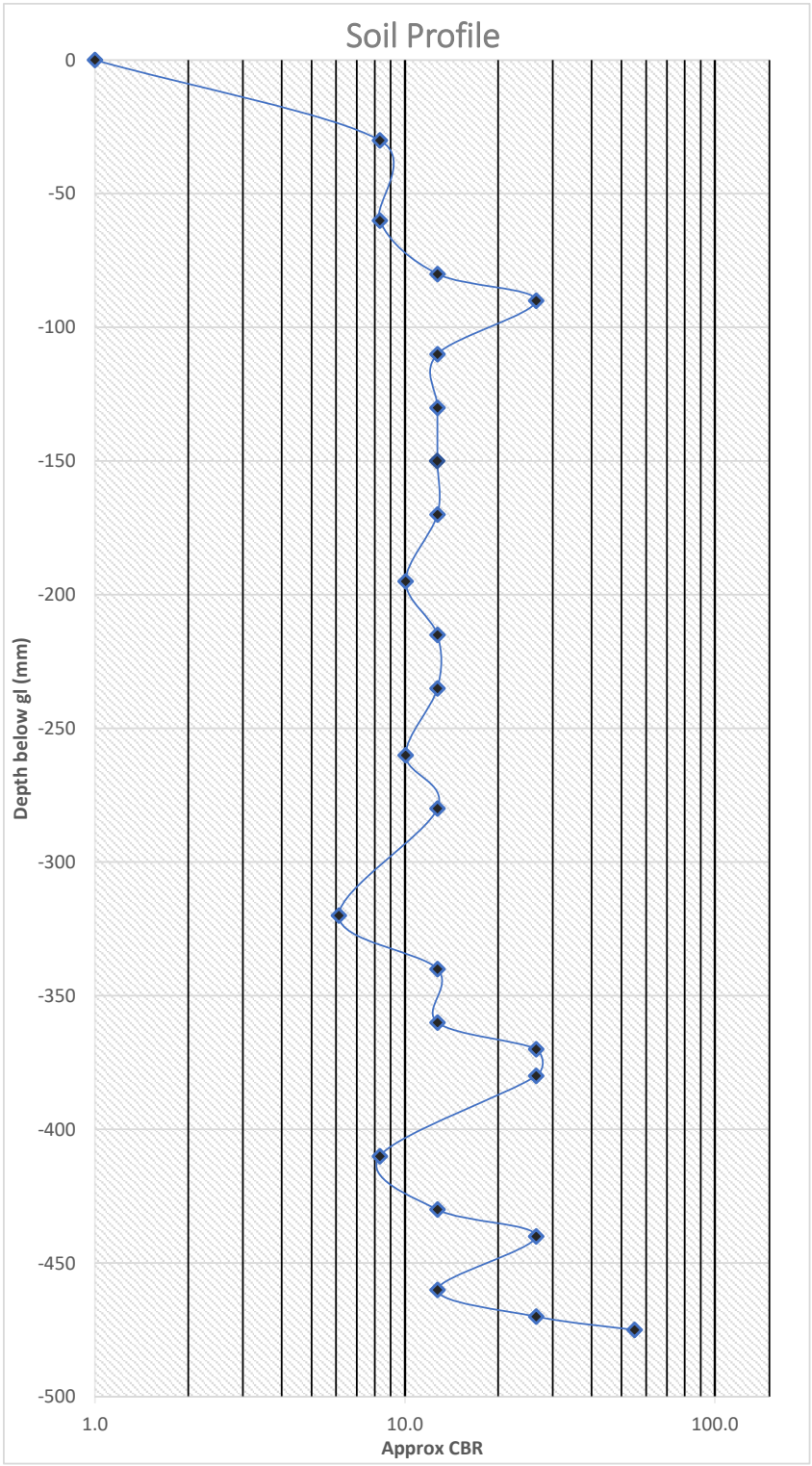
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	190	30	0.9	8.3	-60
3	210	20	1.1	12.7	-80
4	220	10	1.4	26.5	-90
5	240	20	1.1	12.7	-110
6	260	20	1.1	12.7	-130
7	280	20	1.1	12.7	-150
8	300	20	1.1	12.7	-170
9	325	25	1.0	10.1	-195
10	345	20	1.1	12.7	-215
11	365	20	1.1	12.7	-235
12	390	25	1.0	10.1	-260
13	410	20	1.1	12.7	-280
14	450	40	0.8	6.1	-320
15	470	20	1.1	12.7	-340
16	490	20	1.1	12.7	-360
17	500	10	1.4	26.5	-370
18	510	10	1.4	26.5	-380
19	540	30	0.9	8.3	-410
20	560	20	1.1	12.7	-430
21	570	10	1.4	26.5	-440
22	590	20	1.1	12.7	-460
23	600	10	1.4	26.5	-470
24	605	5	1.7	55.1	-475
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM05

Start depth of test: 0 mm below ground level 0 m

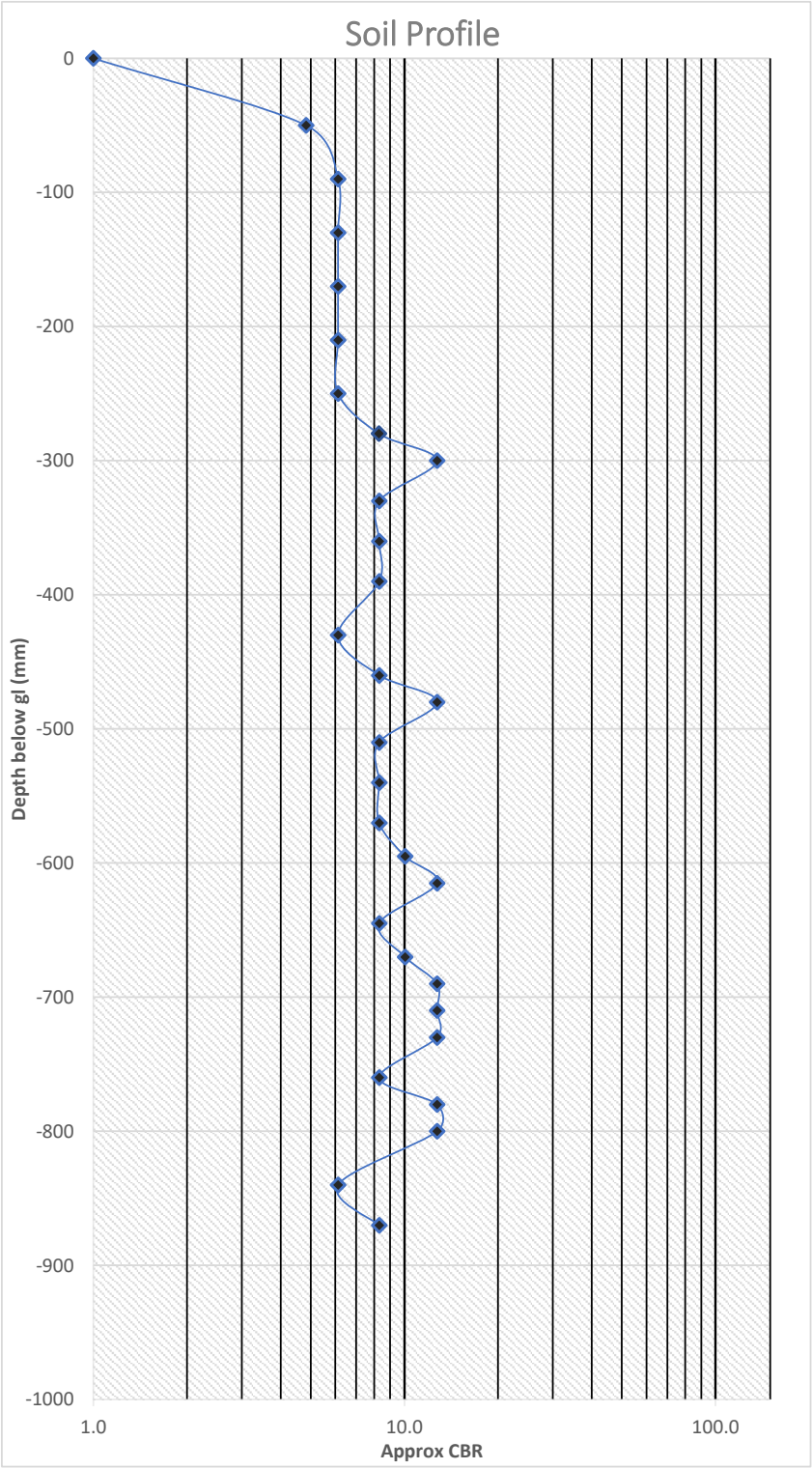
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	180	50	0.7	4.8	-50
2	220	40	0.8	6.1	-90
3	260	40	0.8	6.1	-130
4	300	40	0.8	6.1	-170
5	340	40	0.8	6.1	-210
6	380	40	0.8	6.1	-250
7	410	30	0.9	8.3	-280
8	430	20	1.1	12.7	-300
9	460	30	0.9	8.3	-330
10	490	30	0.9	8.3	-360
11	520	30	0.9	8.3	-390
12	560	40	0.8	6.1	-430
13	590	30	0.9	8.3	-460
14	610	20	1.1	12.7	-480
15	640	30	0.9	8.3	-510
16	670	30	0.9	8.3	-540
17	700	30	0.9	8.3	-570
18	725	25	1.0	10.1	-595
19	745	20	1.1	12.7	-615
20	775	30	0.9	8.3	-645
21	800	25	1.0	10.1	-670
22	820	20	1.1	12.7	-690
23	840	20	1.1	12.7	-710
24	860	20	1.1	12.7	-730
25	890	30	0.9	8.3	-760
26	910	20	1.1	12.7	-780
27	930	20	1.1	12.7	-800
28	970	40	0.8	6.1	-840
29	1000	30	0.9	8.3	-870
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM06

Start depth of test: 0 mm below ground level 0 m

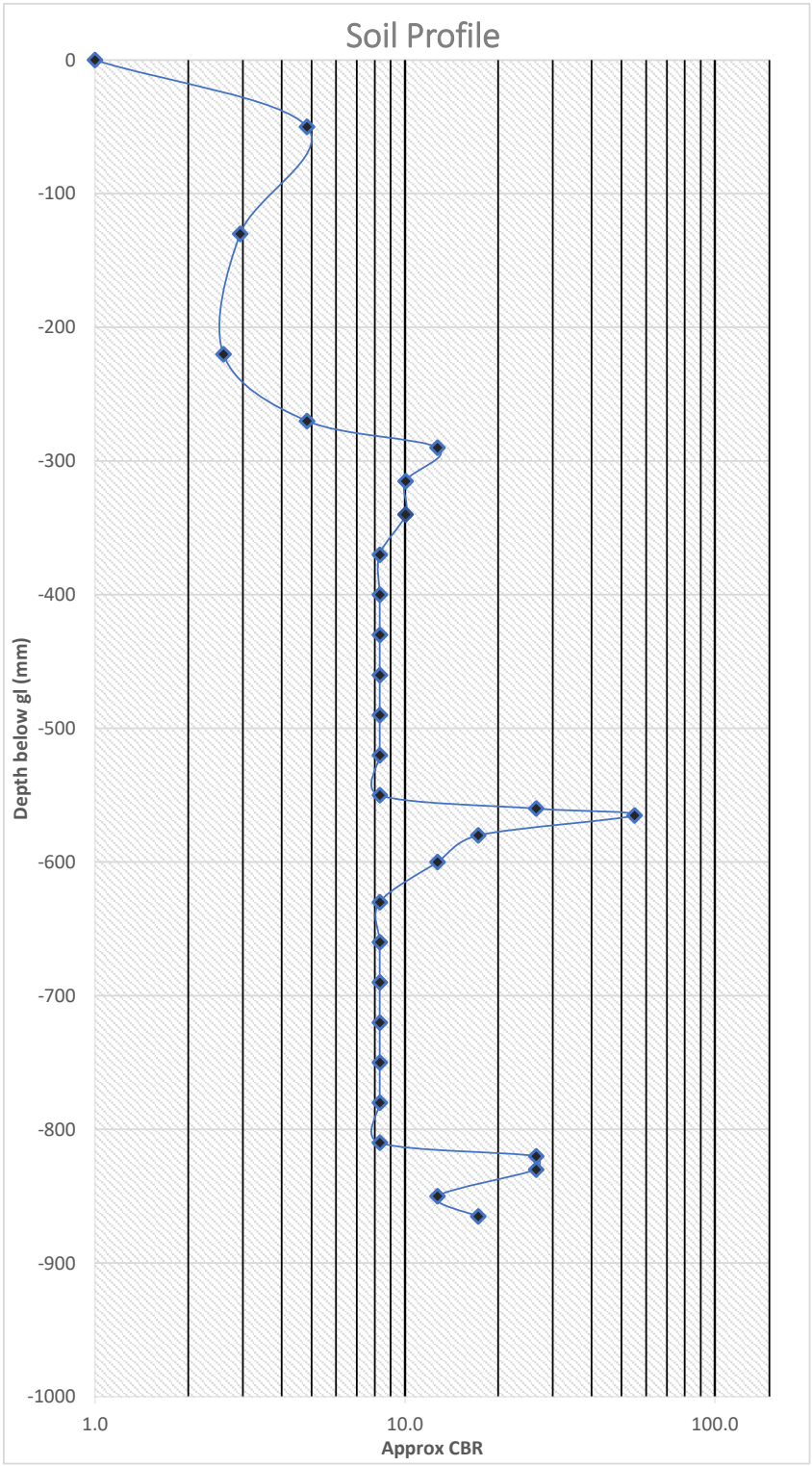
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	190	50	0.7	4.8	-50
2	270	80	0.5	2.9	-130
3	360	90	0.4	2.6	-220
4	410	50	0.7	4.8	-270
5	430	20	1.1	12.7	-290
6	455	25	1.0	10.1	-315
7	480	25	1.0	10.1	-340
8	510	30	0.9	8.3	-370
9	540	30	0.9	8.3	-400
10	570	30	0.9	8.3	-430
11	600	30	0.9	8.3	-460
12	630	30	0.9	8.3	-490
13	660	30	0.9	8.3	-520
14	690	30	0.9	8.3	-550
15	700	10	1.4	26.5	-560
16	705	5	1.7	55.1	-565
17	720	15	1.2	17.3	-580
18	740	20	1.1	12.7	-600
19	770	30	0.9	8.3	-630
20	800	30	0.9	8.3	-660
21	830	30	0.9	8.3	-690
22	860	30	0.9	8.3	-720
23	890	30	0.9	8.3	-750
24	920	30	0.9	8.3	-780
25	950	30	0.9	8.3	-810
26	960	10	1.4	26.5	-820
27	970	10	1.4	26.5	-830
28	990	20	1.1	12.7	-850
29	1005	15	1.2	17.3	-865
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM07

Start depth of test: 0 mm below ground level 0 m

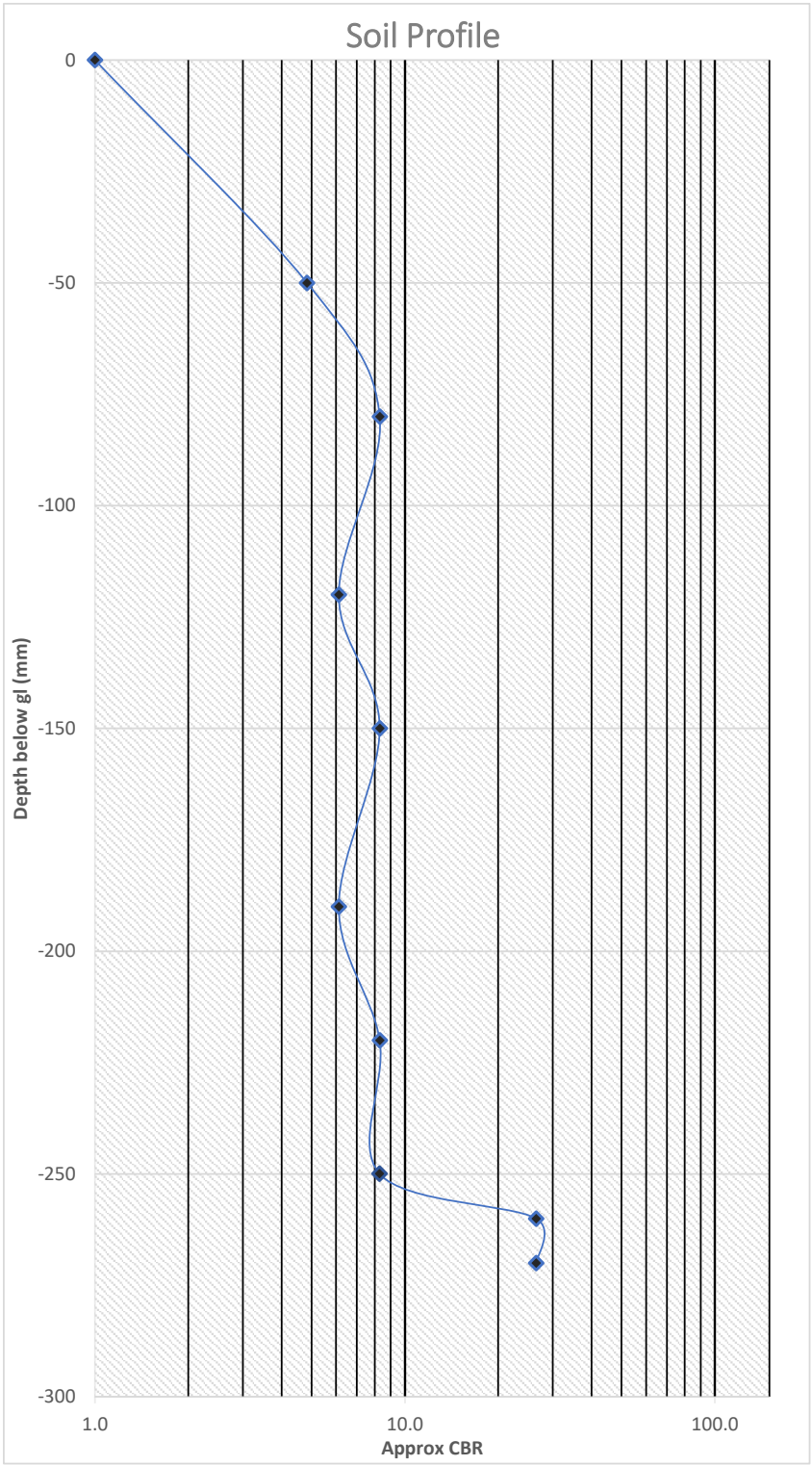
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	190	50	0.7	4.8	-50
2	220	30	0.9	8.3	-80
3	260	40	0.8	6.1	-120
4	290	30	0.9	8.3	-150
5	330	40	0.8	6.1	-190
6	360	30	0.9	8.3	-220
7	390	30	0.9	8.3	-250
8	400	10	1.4	26.5	-260
9	410	10	1.4	26.5	-270
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM08

Start depth of test: 0 mm below ground level 0 m

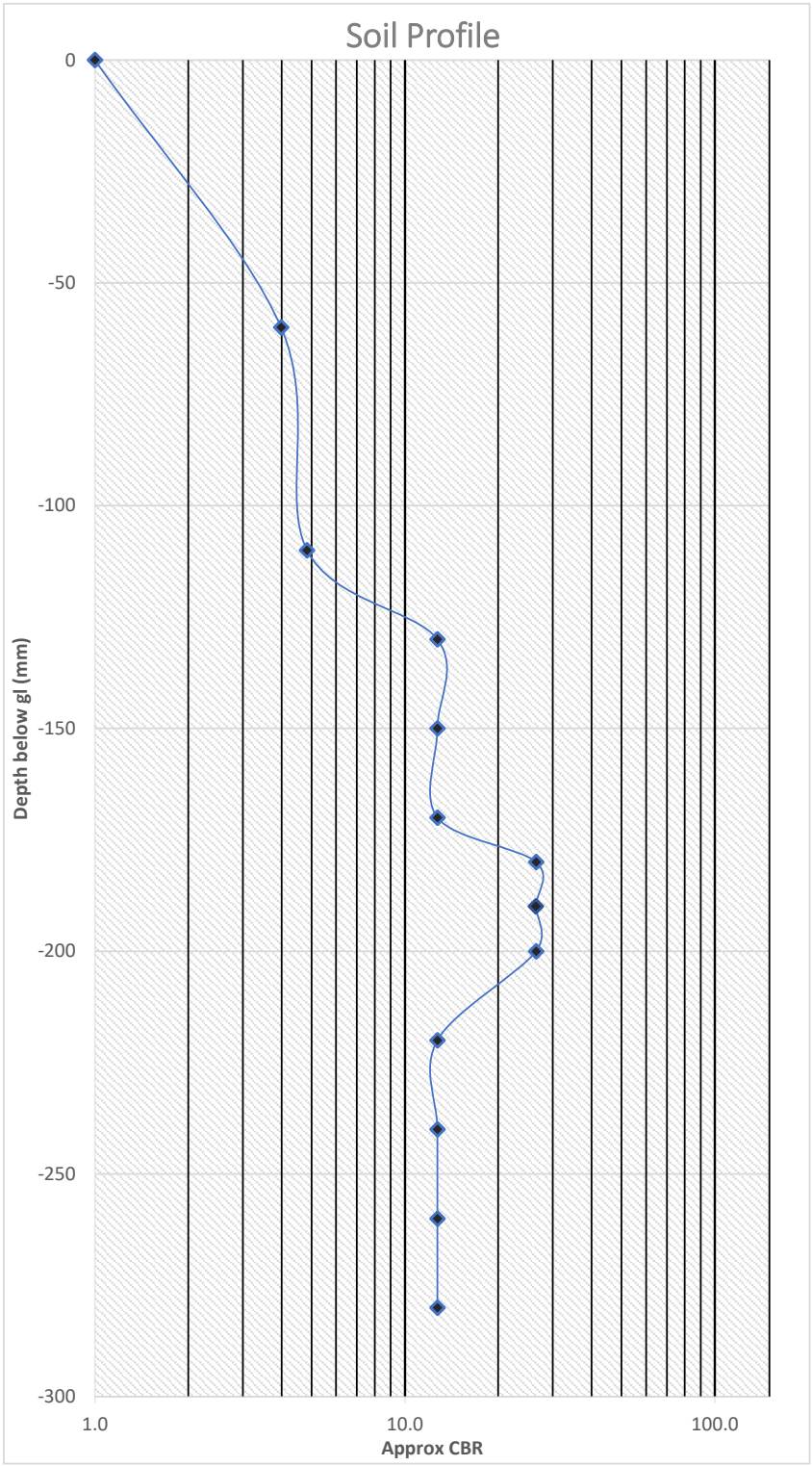
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	190	60	0.6	4.0	-60
2	240	50	0.7	4.8	-110
3	260	20	1.1	12.7	-130
4	280	20	1.1	12.7	-150
5	300	20	1.1	12.7	-170
6	310	10	1.4	26.5	-180
7	320	10	1.4	26.5	-190
8	330	10	1.4	26.5	-200
9	350	20	1.1	12.7	-220
10	370	20	1.1	12.7	-240
11	390	20	1.1	12.7	-260
12	410	20	1.1	12.7	-280
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM09

Start depth of test: 0 mm below ground level 0 m

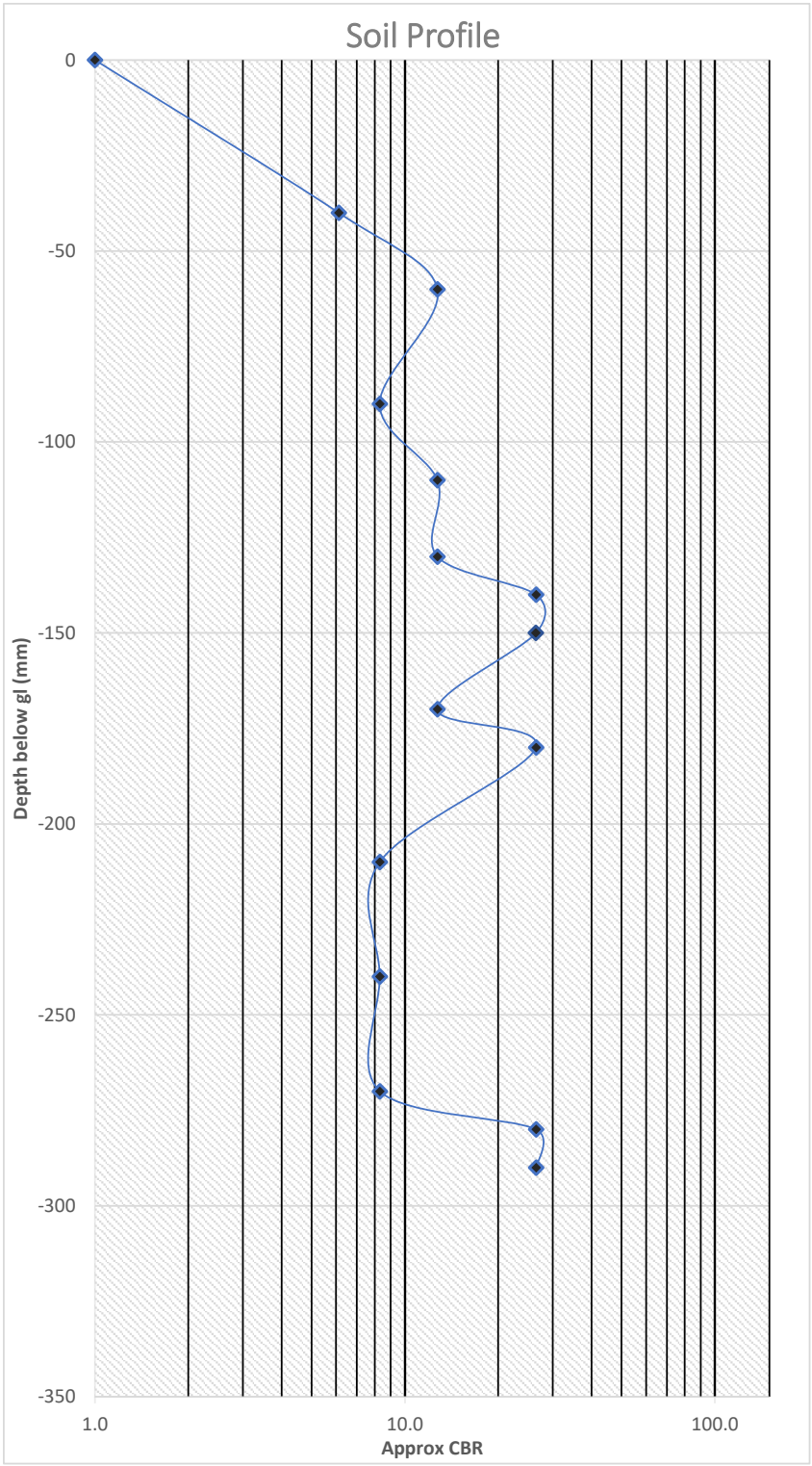
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	170	40	0.8	6.1	-40
2	190	20	1.1	12.7	-60
3	220	30	0.9	8.3	-90
4	240	20	1.1	12.7	-110
5	260	20	1.1	12.7	-130
6	270	10	1.4	26.5	-140
7	280	10	1.4	26.5	-150
8	300	20	1.1	12.7	-170
9	310	10	1.4	26.5	-180
10	340	30	0.9	8.3	-210
11	370	30	0.9	8.3	-240
12	400	30	0.9	8.3	-270
13	410	10	1.4	26.5	-280
14	420	10	1.4	26.5	-290
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM10

Start depth of test: 0 mm below ground level 0 m

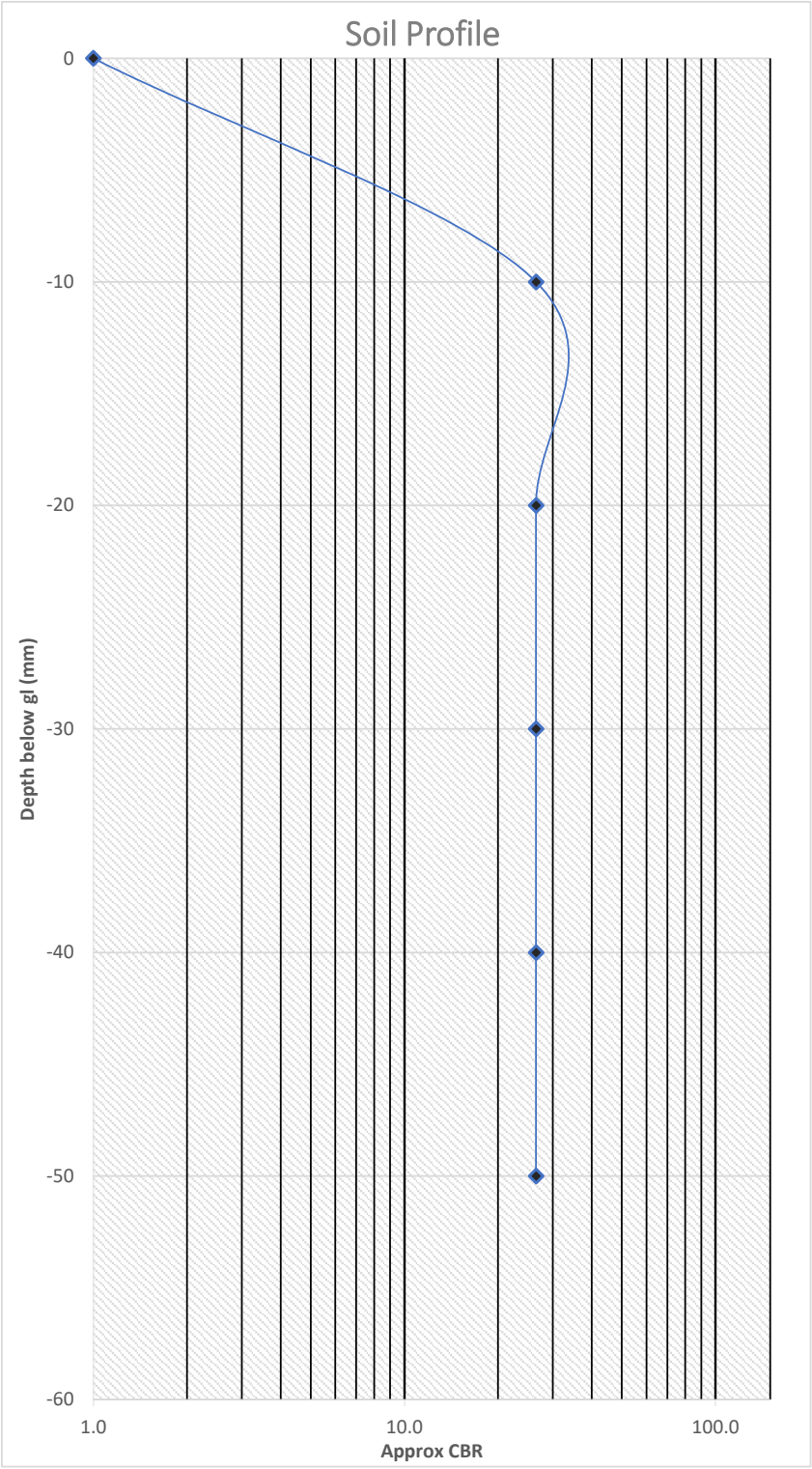
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	170	10	1.4	26.5	-40
5	180	10	1.4	26.5	-50
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM11

Start depth of test: 0 mm below ground level 0 m

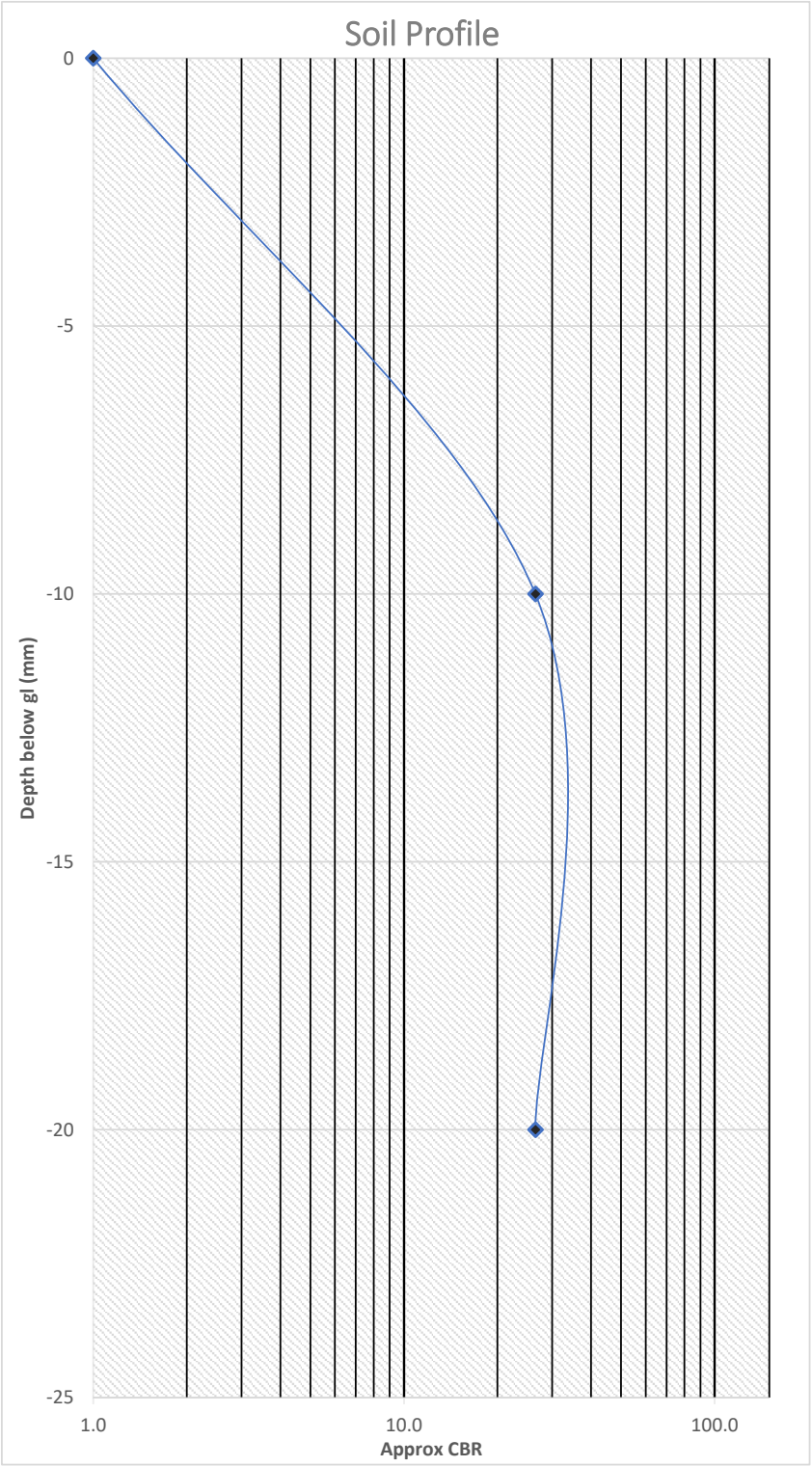
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM12

Start depth of test: 0 mm below ground level 0 m

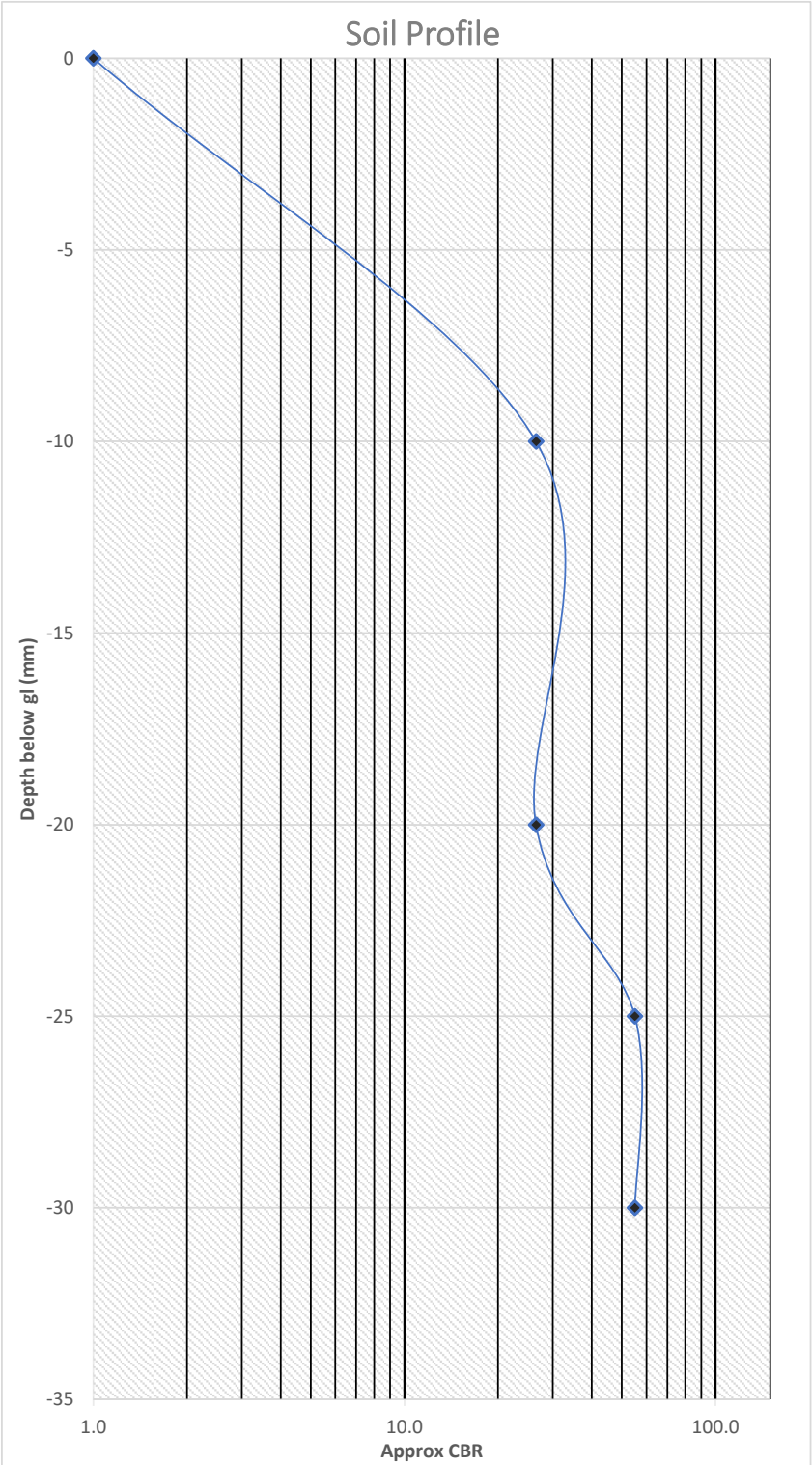
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	155	5	1.7	55.1	-25
4	160	5	1.7	55.1	-30
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM13

Start depth of test: 0 mm below ground level 0 m

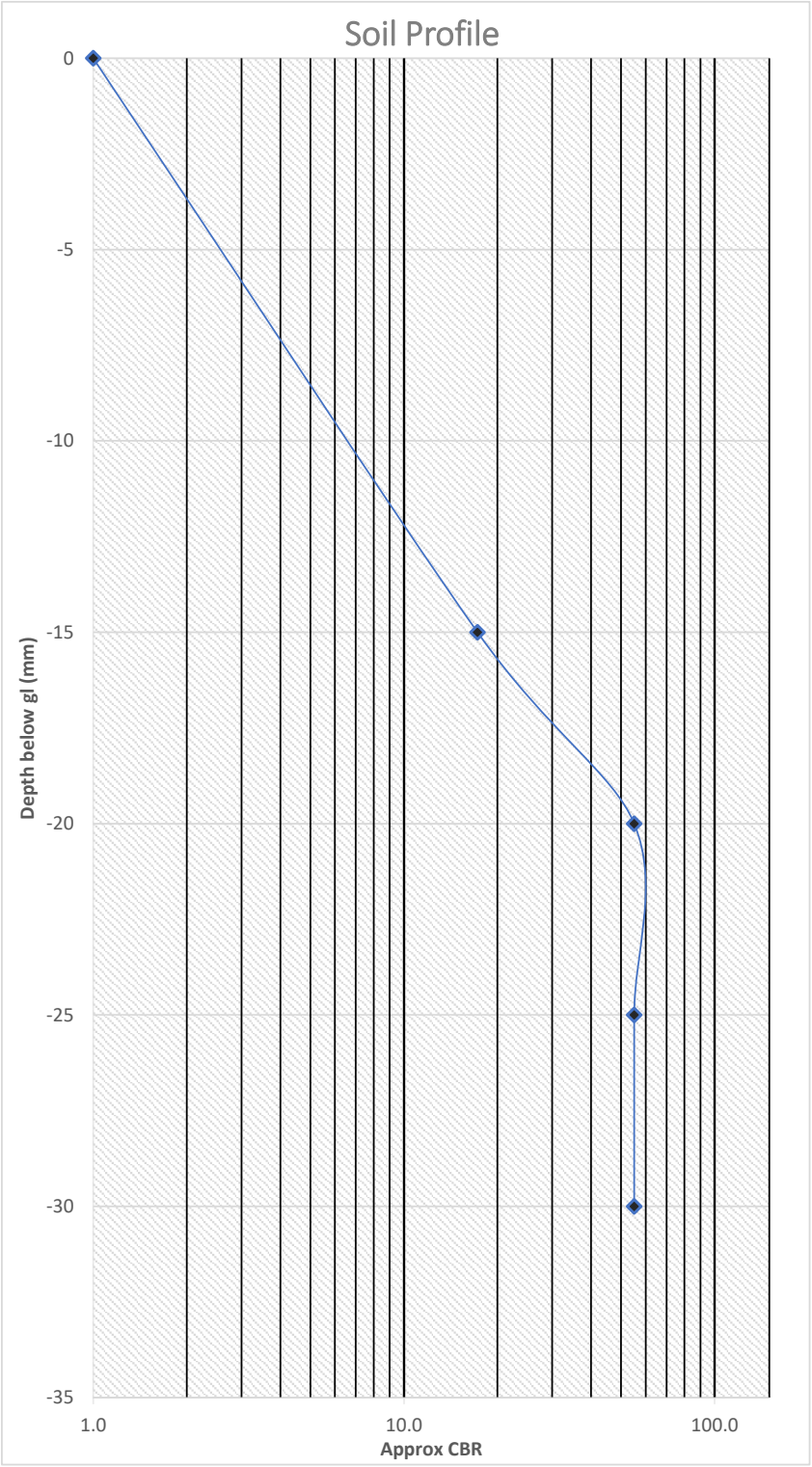
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	150	15	1.2	17.3	-15
2	155	5	1.7	55.1	-20
3	160	5	1.7	55.1	-25
4	165	5	1.7	55.1	-30
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM14

Start depth of test: 0 mm below ground level 0 m

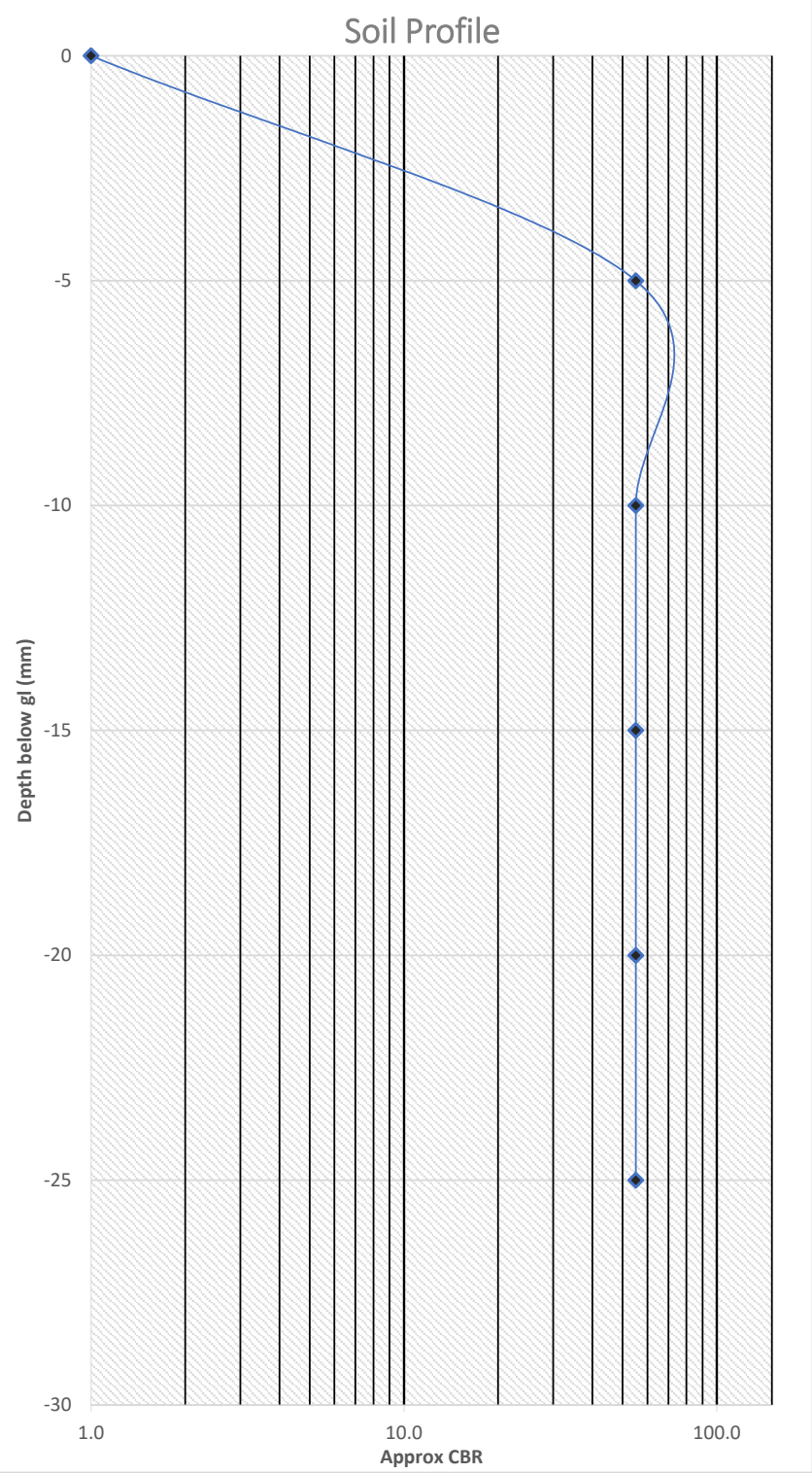
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	135	5	1.7	55.1	-5
2	140	5	1.7	55.1	-10
3	145	5	1.7	55.1	-15
4	150	5	1.7	55.1	-20
5	155	5	1.7	55.1	-25
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM15

Start depth of test: 0 mm below ground level 0 m

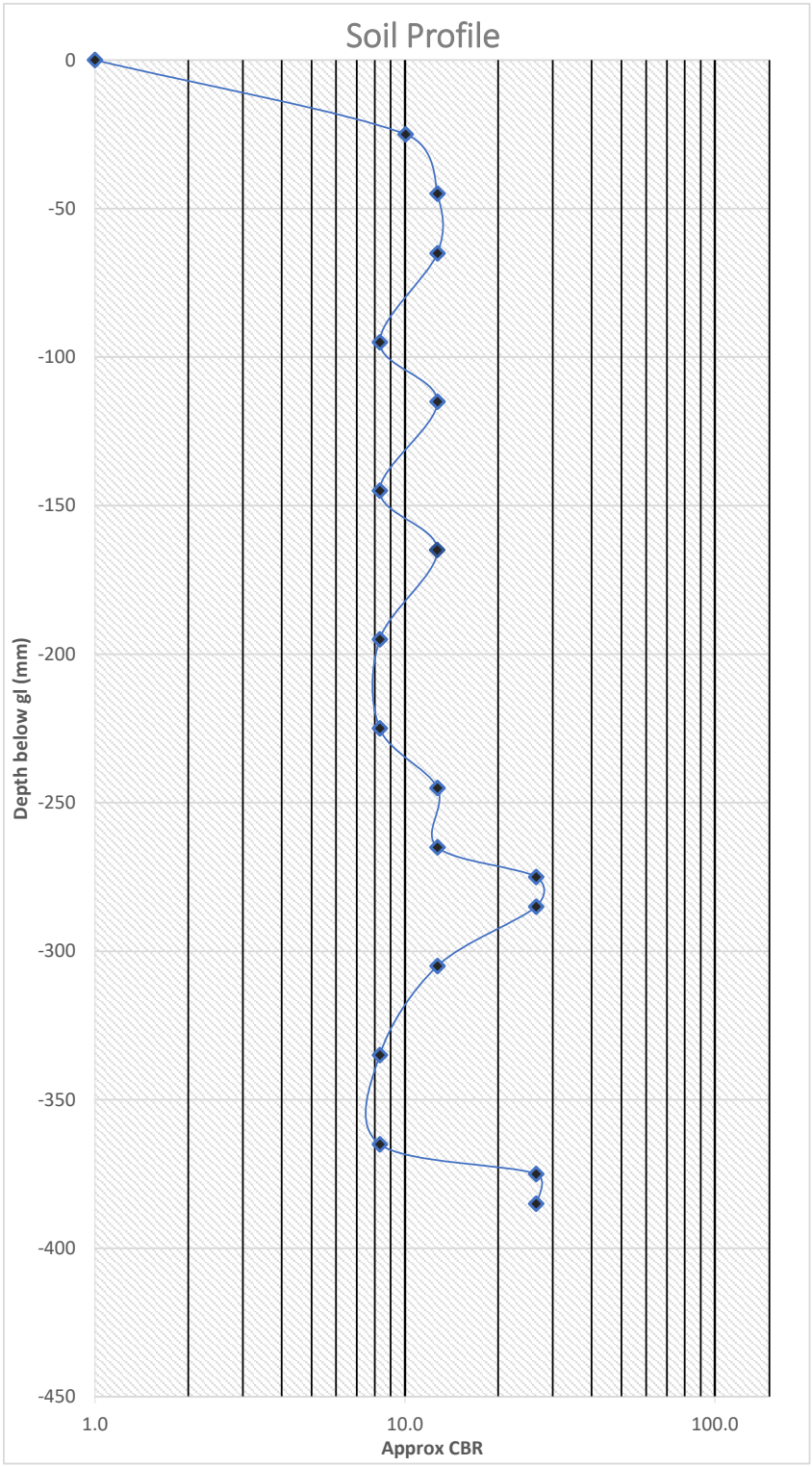
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	160	25	1.0	10.1	-25
2	180	20	1.1	12.7	-45
3	200	20	1.1	12.7	-65
4	230	30	0.9	8.3	-95
5	250	20	1.1	12.7	-115
6	280	30	0.9	8.3	-145
7	300	20	1.1	12.7	-165
8	330	30	0.9	8.3	-195
9	360	30	0.9	8.3	-225
10	380	20	1.1	12.7	-245
11	400	20	1.1	12.7	-265
12	410	10	1.4	26.5	-275
13	420	10	1.4	26.5	-285
14	440	20	1.1	12.7	-305
15	470	30	0.9	8.3	-335
16	500	30	0.9	8.3	-365
17	510	10	1.4	26.5	-375
18	520	10	1.4	26.5	-385
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM16

Start depth of test: 0 mm below ground level 0 m

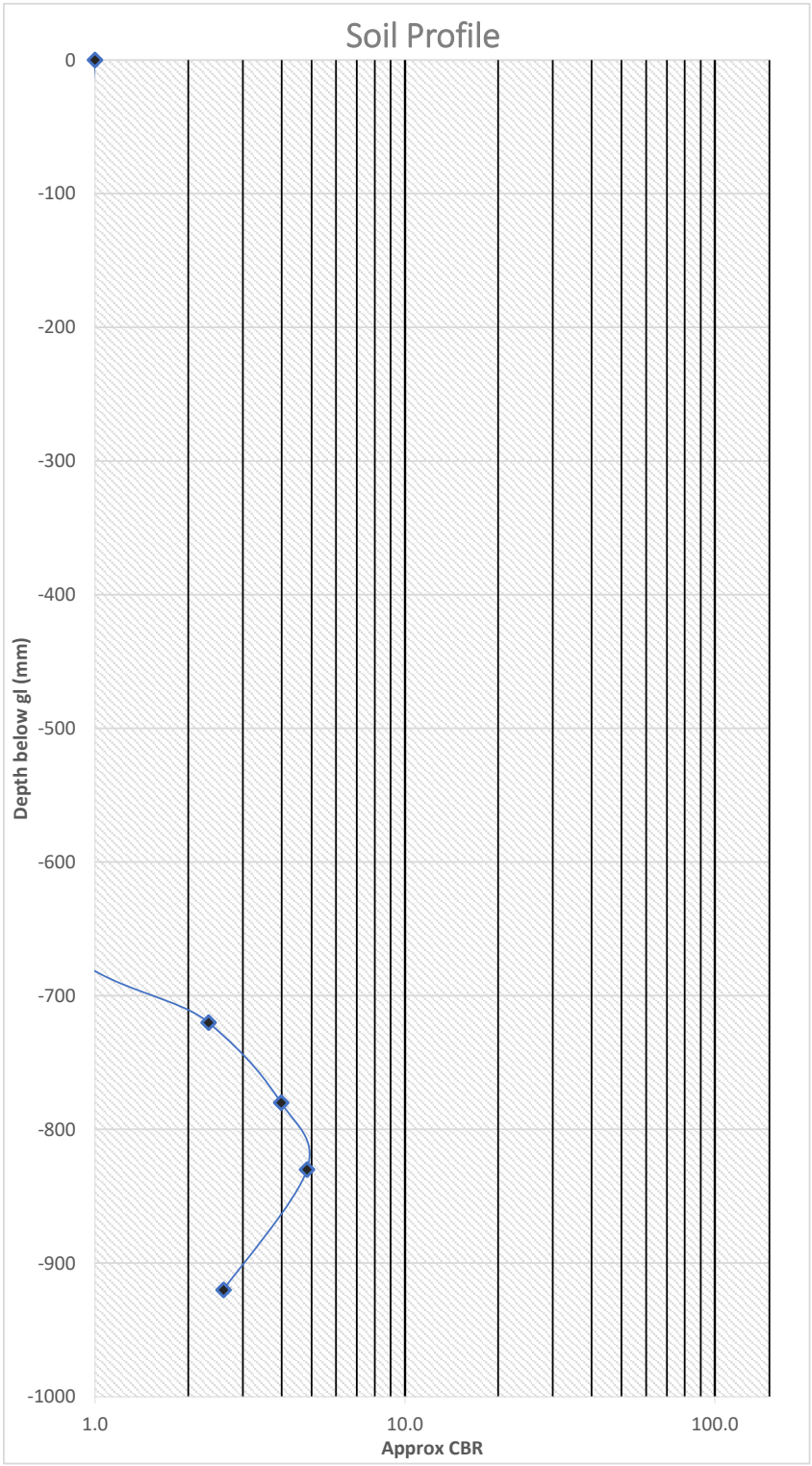
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	400	270	-0.1	0.8	-270
2	750	350	-0.2	0.6	-620
3	850	100	0.4	2.3	-720
4	910	60	0.6	4.0	-780
5	960	50	0.7	4.8	-830
6	1050	90	0.4	2.6	-920
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM17

Start depth of test: 0 mm below ground level 0 m

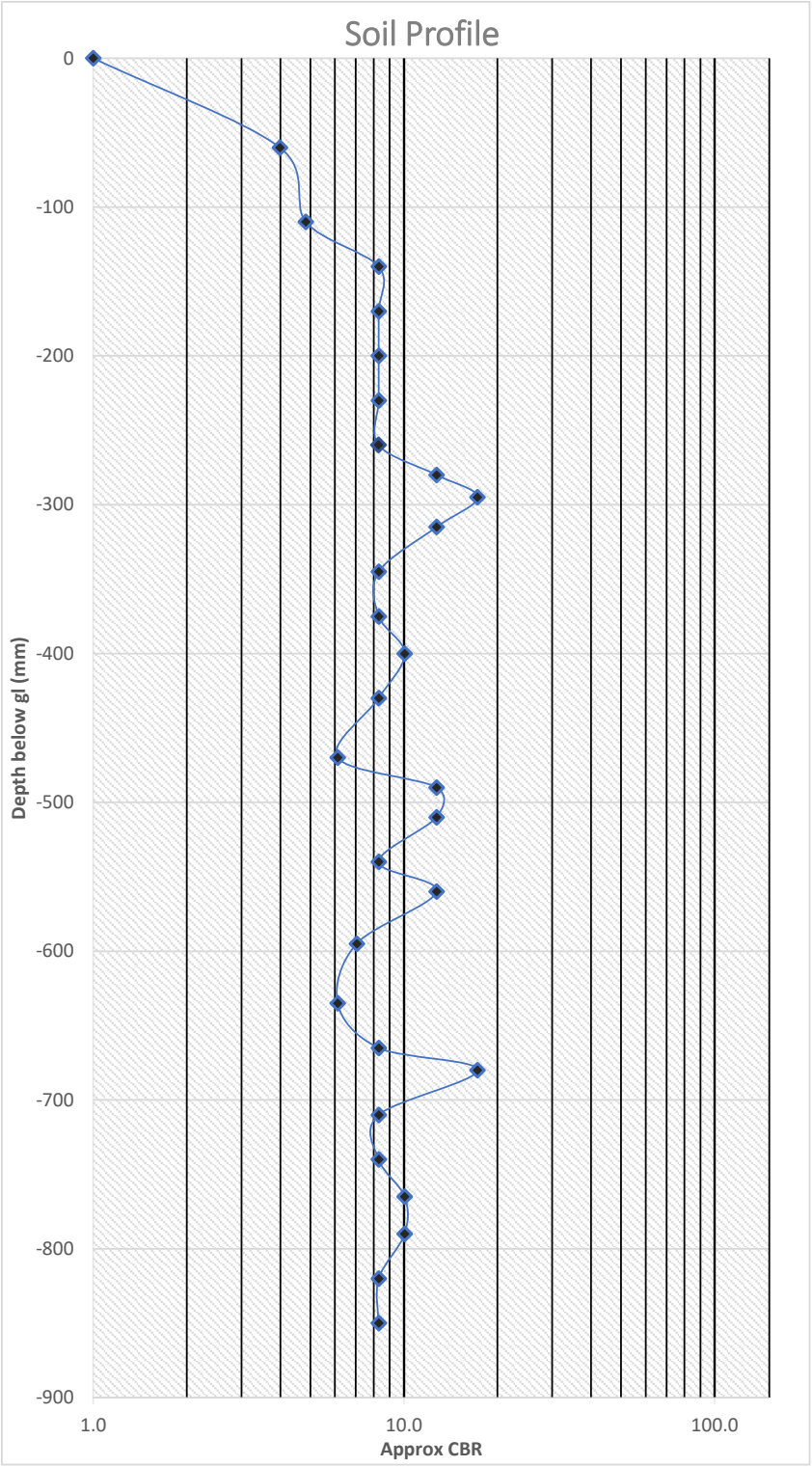
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	190	60	0.6	4.0	-60
2	240	50	0.7	4.8	-110
3	270	30	0.9	8.3	-140
4	300	30	0.9	8.3	-170
5	330	30	0.9	8.3	-200
6	360	30	0.9	8.3	-230
7	390	30	0.9	8.3	-260
8	410	20	1.1	12.7	-280
9	425	15	1.2	17.3	-295
10	445	20	1.1	12.7	-315
11	475	30	0.9	8.3	-345
12	505	30	0.9	8.3	-375
13	530	25	1.0	10.1	-400
14	560	30	0.9	8.3	-430
15	600	40	0.8	6.1	-470
16	620	20	1.1	12.7	-490
17	640	20	1.1	12.7	-510
18	670	30	0.9	8.3	-540
19	690	20	1.1	12.7	-560
20	725	35	0.8	7.0	-595
21	765	40	0.8	6.1	-635
22	795	30	0.9	8.3	-665
23	810	15	1.2	17.3	-680
24	840	30	0.9	8.3	-710
25	870	30	0.9	8.3	-740
26	895	25	1.0	10.1	-765
27	920	25	1.0	10.1	-790
28	950	30	0.9	8.3	-820
29	980	30	0.9	8.3	-850
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM18

Start depth of test: 0 mm below ground level 0 m

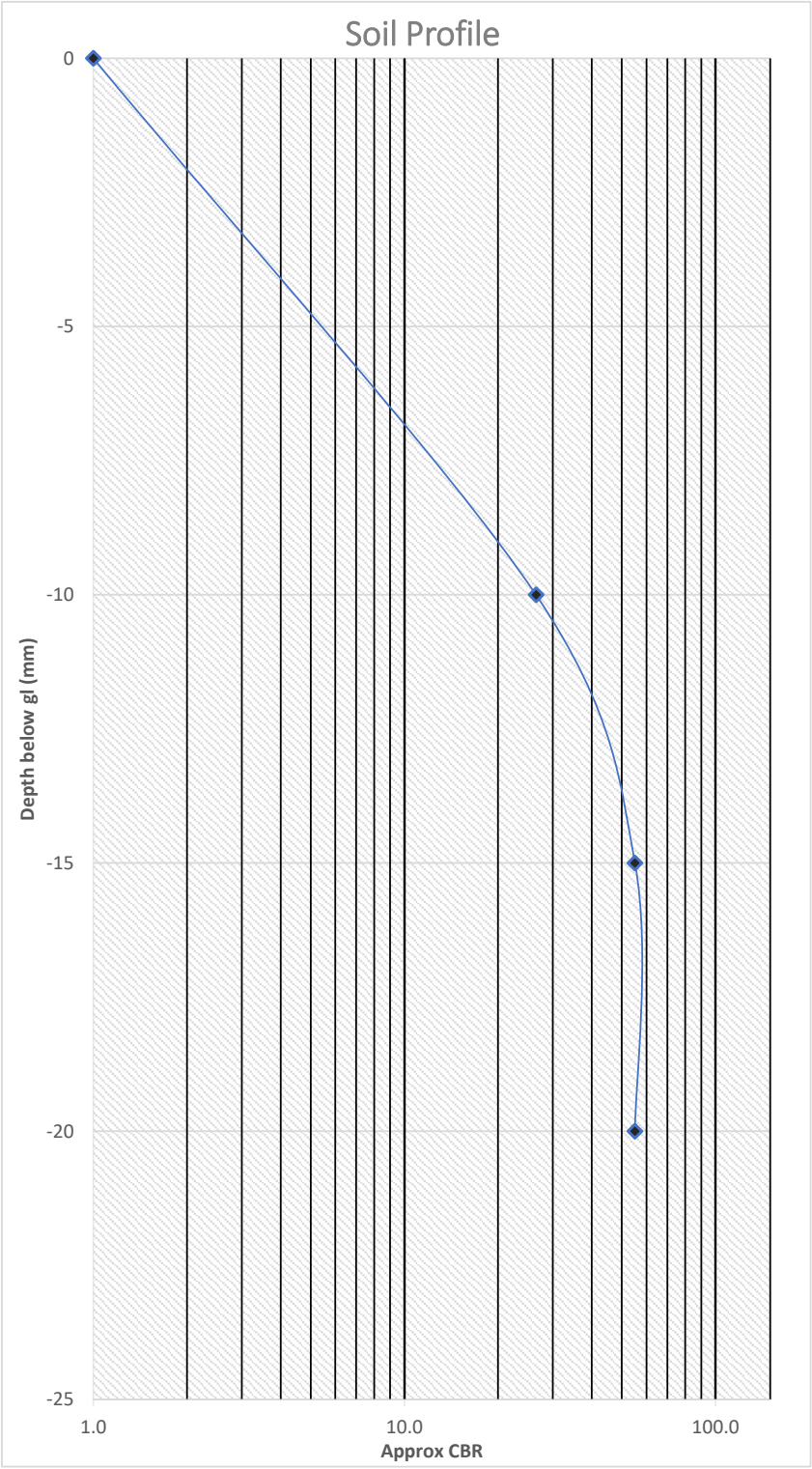
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	145	10	1.4	26.5	-10
2	150	5	1.7	55.1	-15
3	155	5	1.7	55.1	-20
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM19

Start depth of test: 0 mm below ground level 0 m

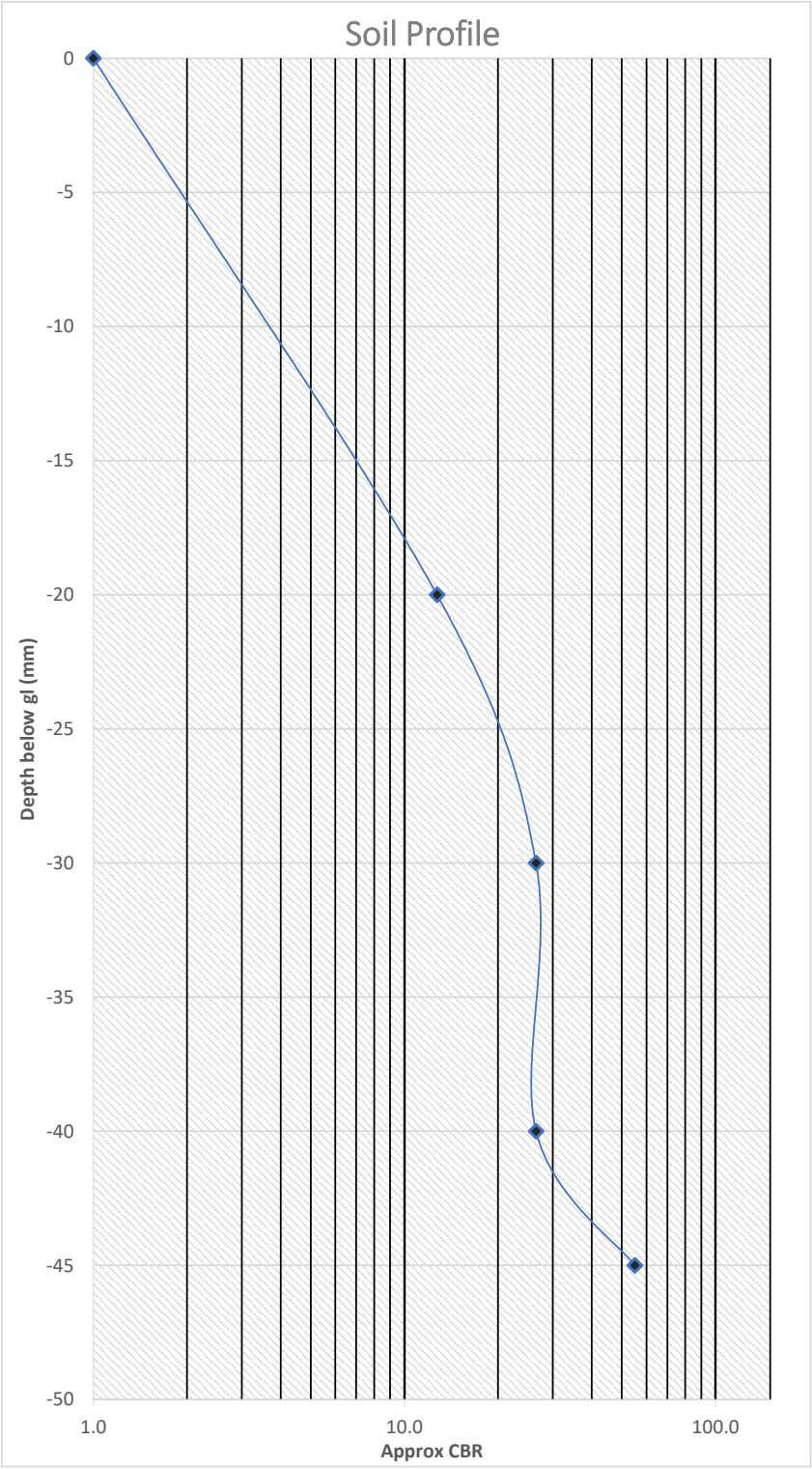
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	150	20	1.1	12.7	-20
2	160	10	1.4	26.5	-30
3	170	10	1.4	26.5	-40
4	175	5	1.7	55.1	-45
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM20

Start depth of test: 0 mm below ground level 0 m

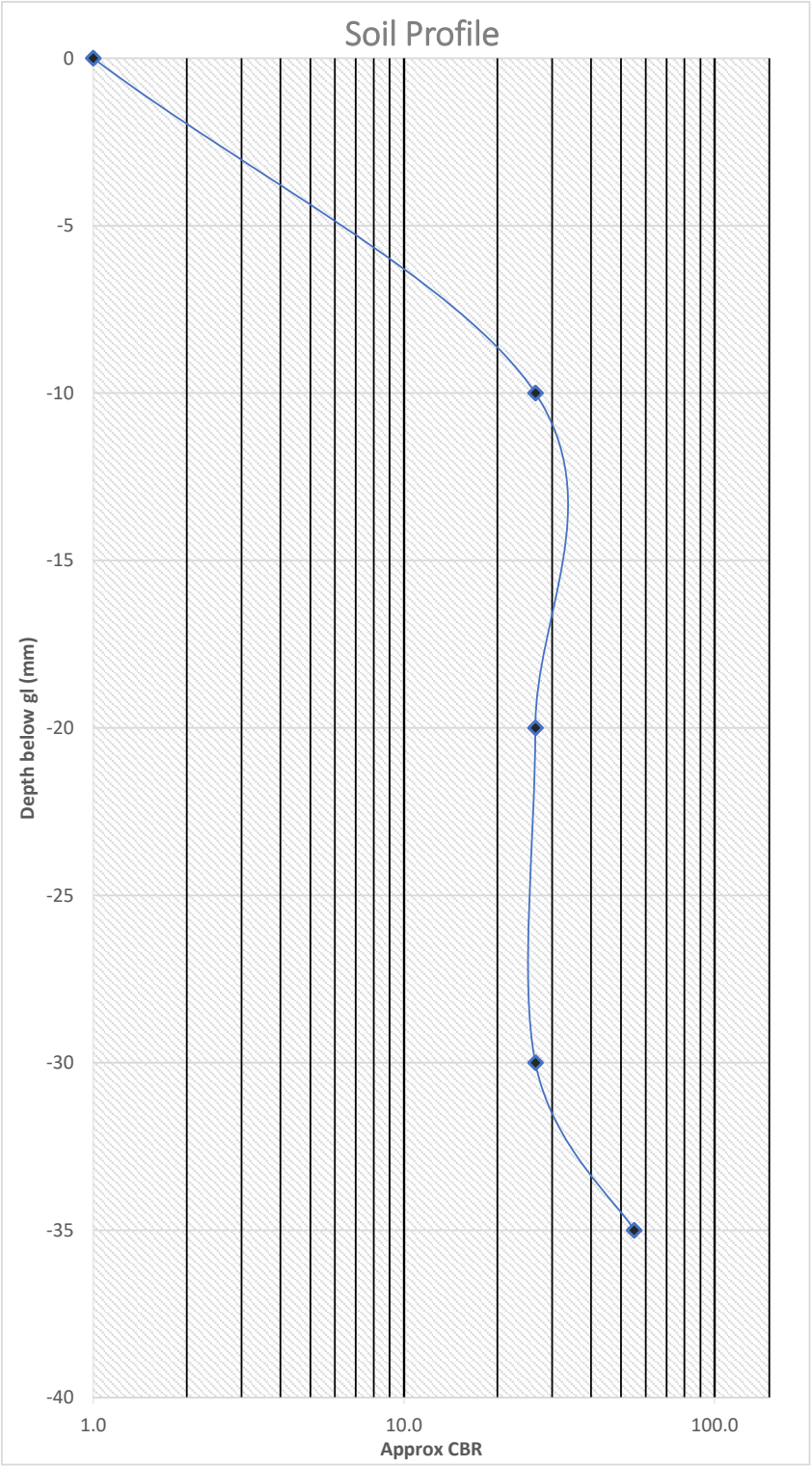
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	165	5	1.7	55.1	-35
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM21

Start depth of test: 0 mm below ground level 0 m

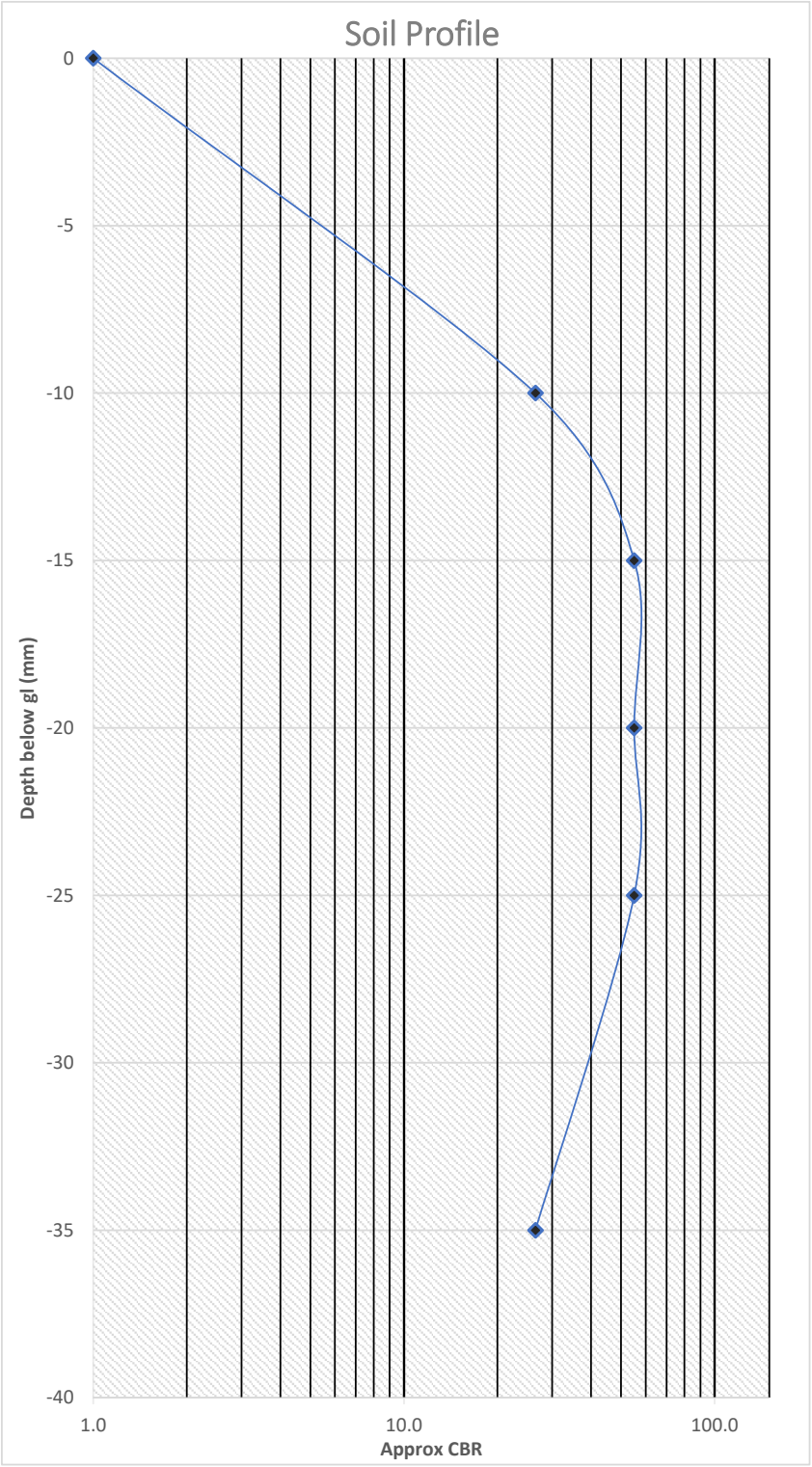
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	145	10	1.4	26.5	-10
2	150	5	1.7	55.1	-15
3	155	5	1.7	55.1	-20
4	160	5	1.7	55.1	-25
5	170	10	1.4	26.5	-35
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM22

Start depth of test: 0 mm below ground level 0 m

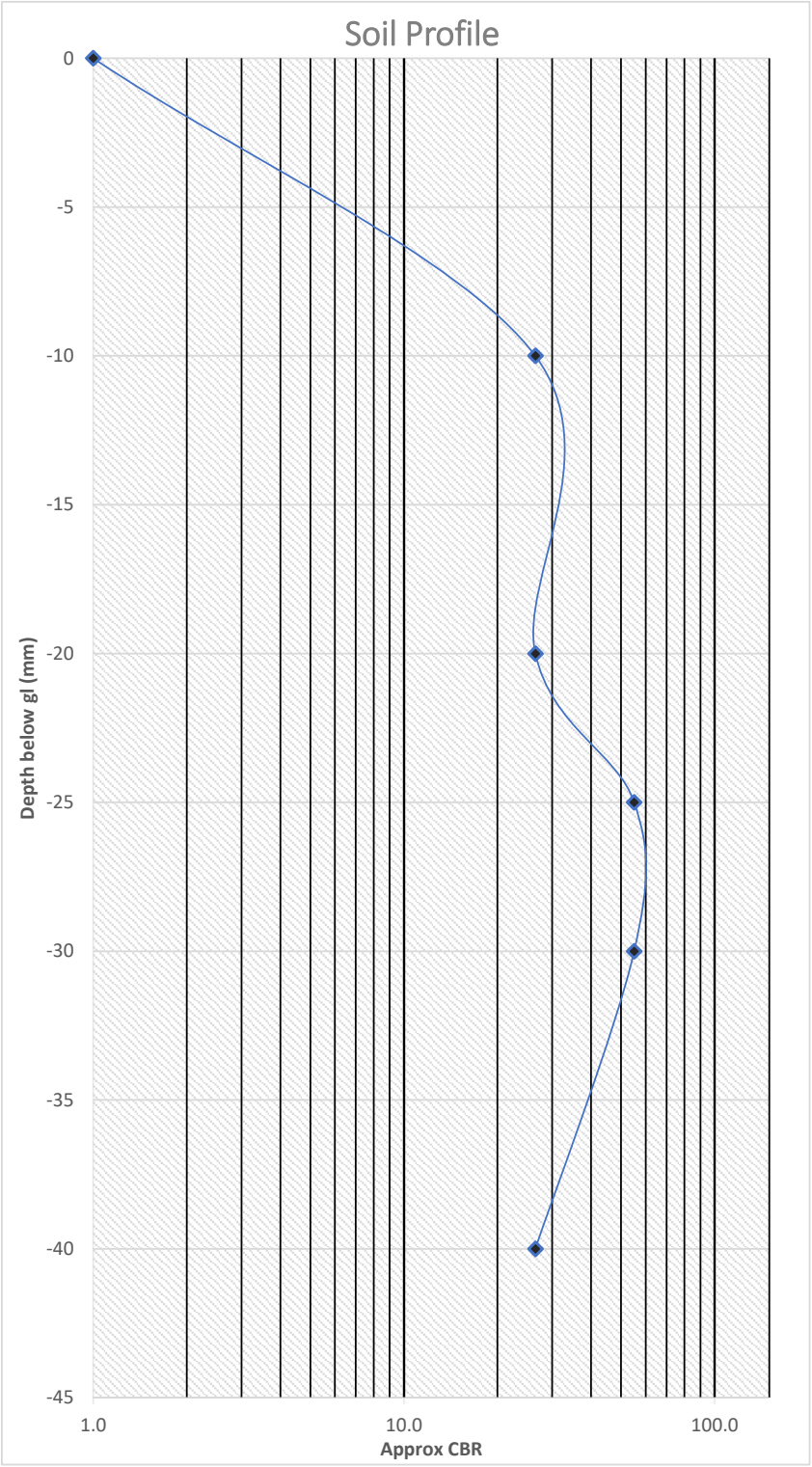
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	155	5	1.7	55.1	-25
4	160	5	1.7	55.1	-30
5	170	10	1.4	26.5	-40
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM23

Start depth of test: 0 mm below ground level 0 m

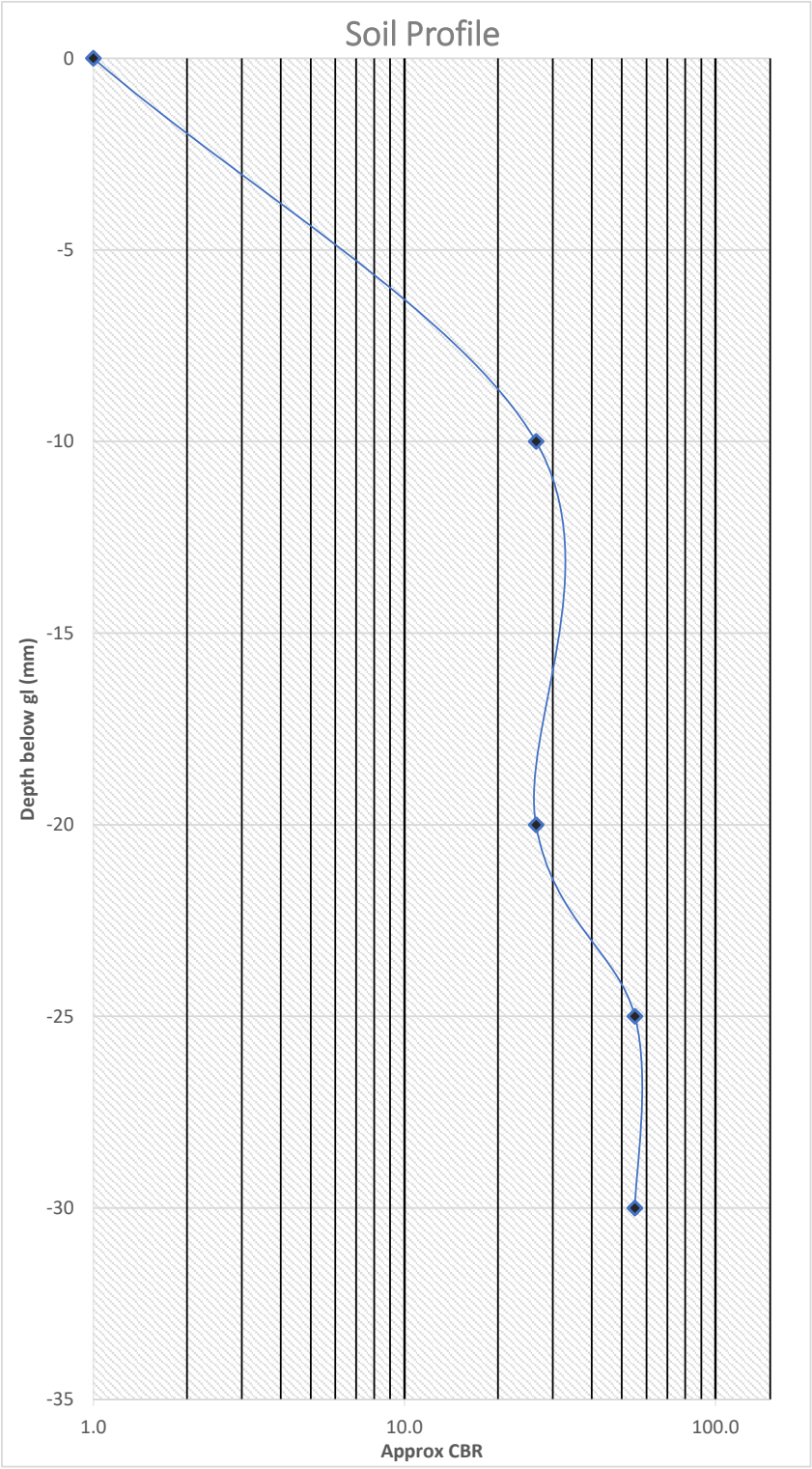
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	125	0	0.0	1.0	0
1	135	10	1.4	26.5	-10
2	145	10	1.4	26.5	-20
3	150	5	1.7	55.1	-25
4	155	5	1.7	55.1	-30
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM24

Start depth of test: 0 mm below ground level 0 m

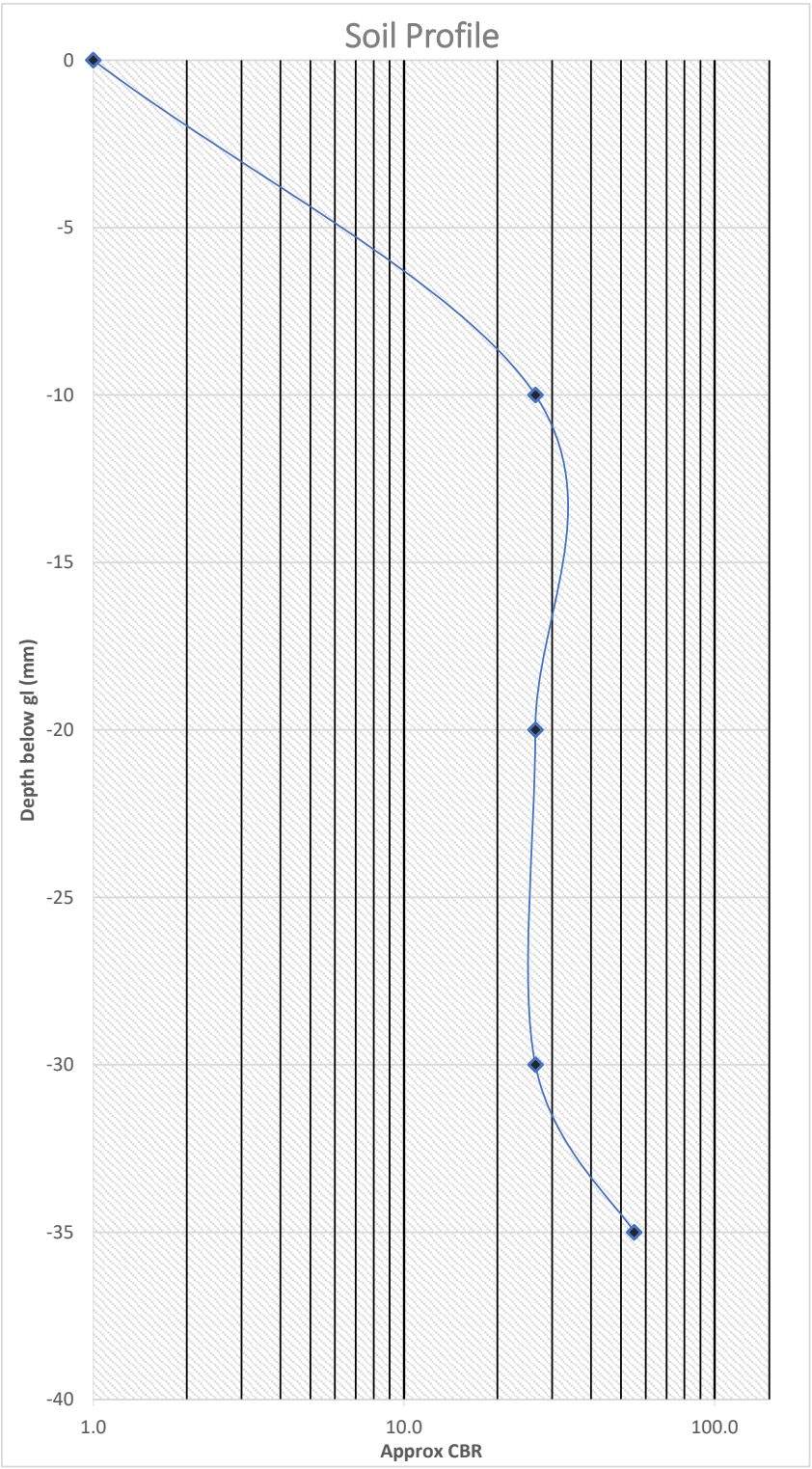
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	165	5	1.7	55.1	-35
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM25

Start depth of test: 0 mm below ground level 0 m

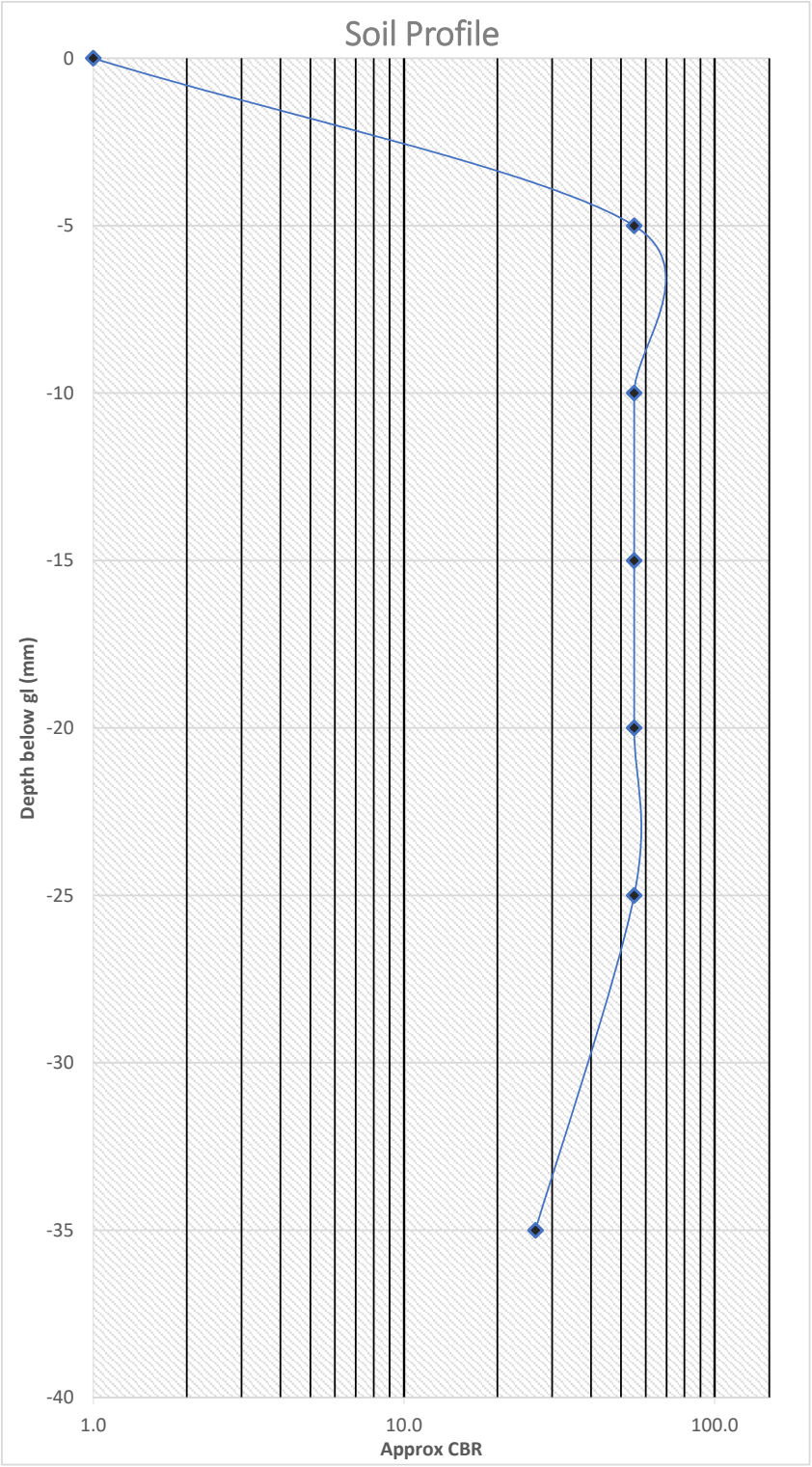
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	140	5	1.7	55.1	-5
2	145	5	1.7	55.1	-10
3	150	5	1.7	55.1	-15
4	155	5	1.7	55.1	-20
5	160	5	1.7	55.1	-25
6	170	10	1.4	26.5	-35
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM26

Start depth of test: 0 mm below ground level 0 m

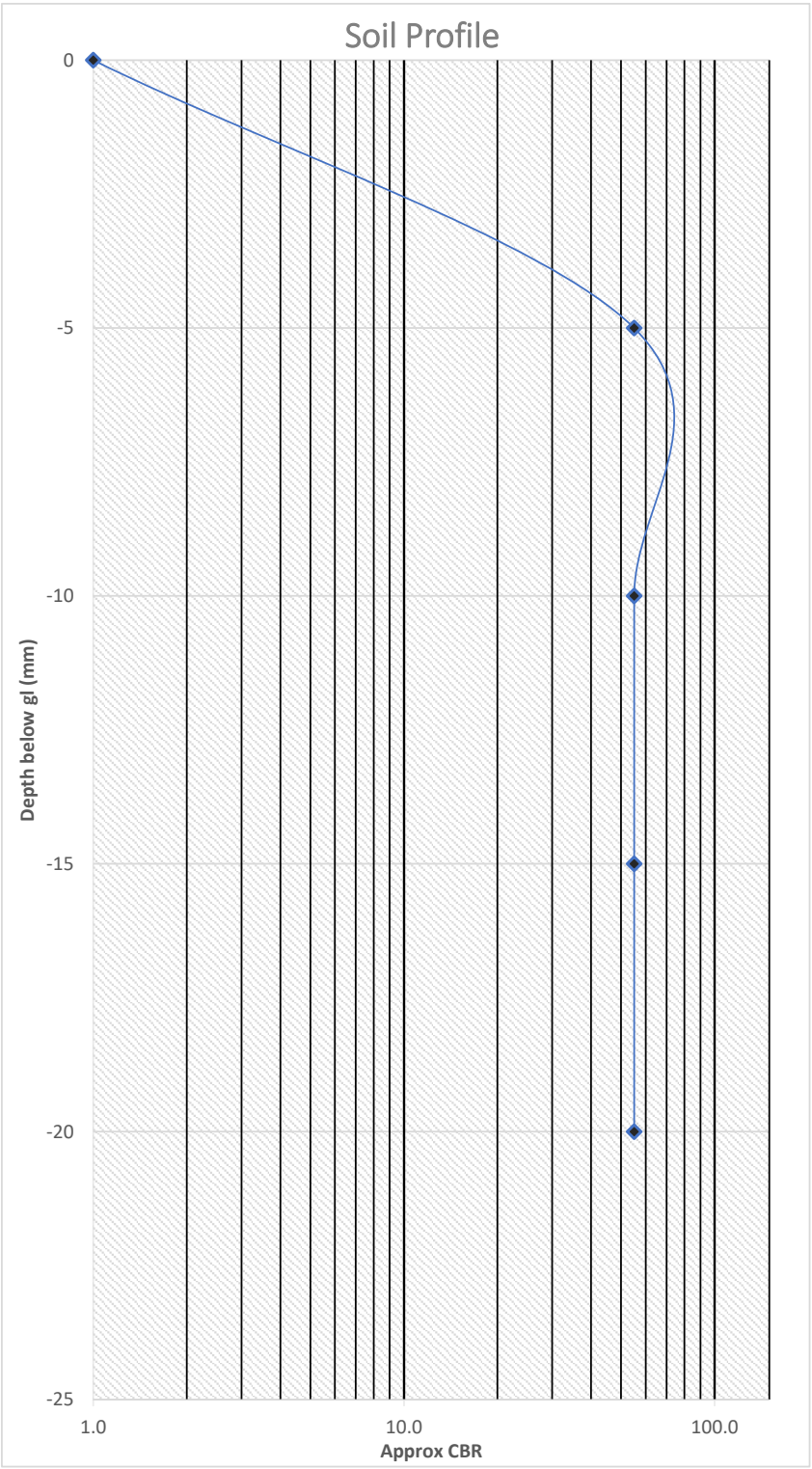
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	135	5	1.7	55.1	-5
2	140	5	1.7	55.1	-10
3	145	5	1.7	55.1	-15
4	150	5	1.7	55.1	-20
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM27

Start depth of test: 0 mm below ground level 0 m

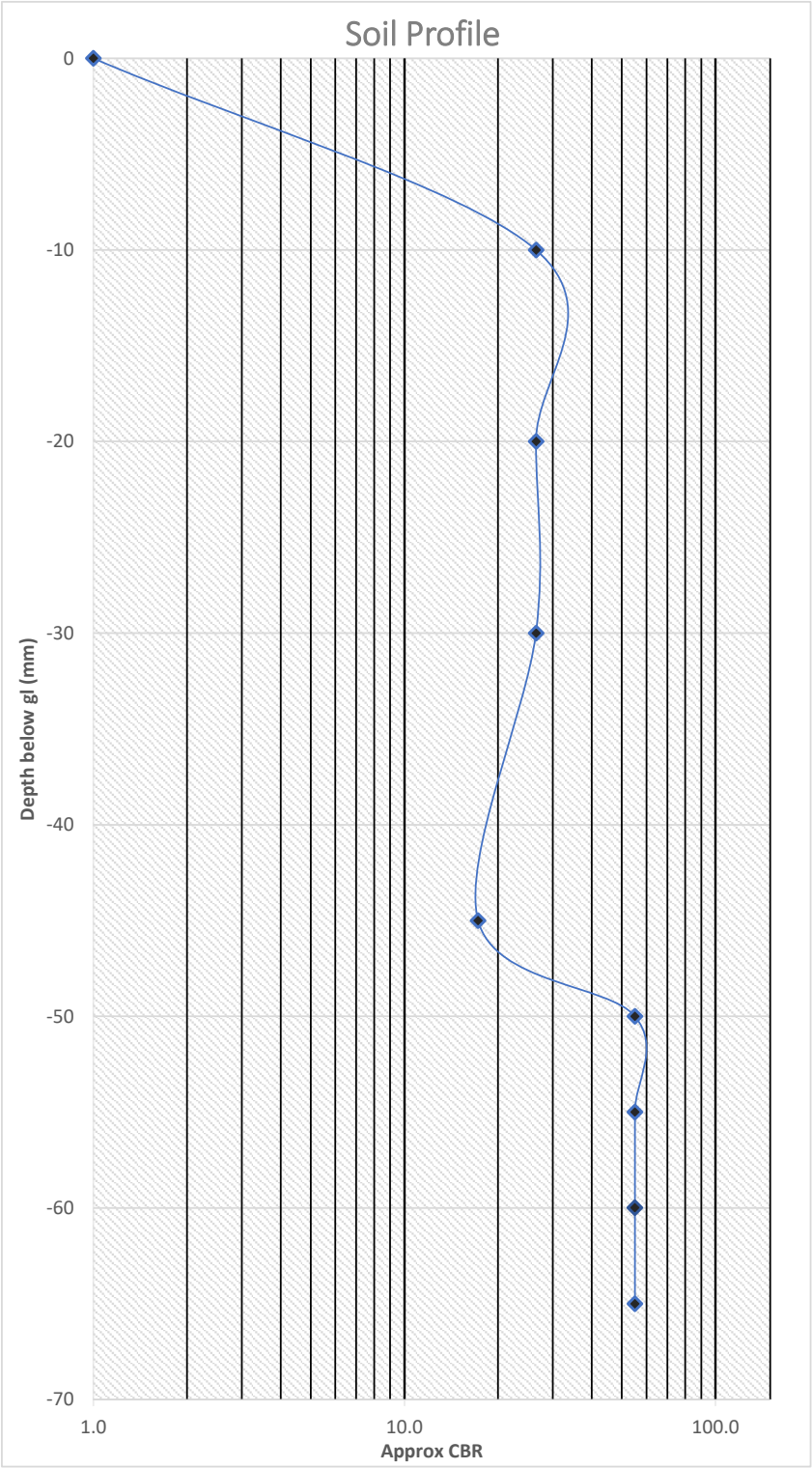
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	175	15	1.2	17.3	-45
5	180	5	1.7	55.1	-50
6	185	5	1.7	55.1	-55
7	190	5	1.7	55.1	-60
8	195	5	1.7	55.1	-65
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM28

Start depth of test: 0 mm below ground level 0 m

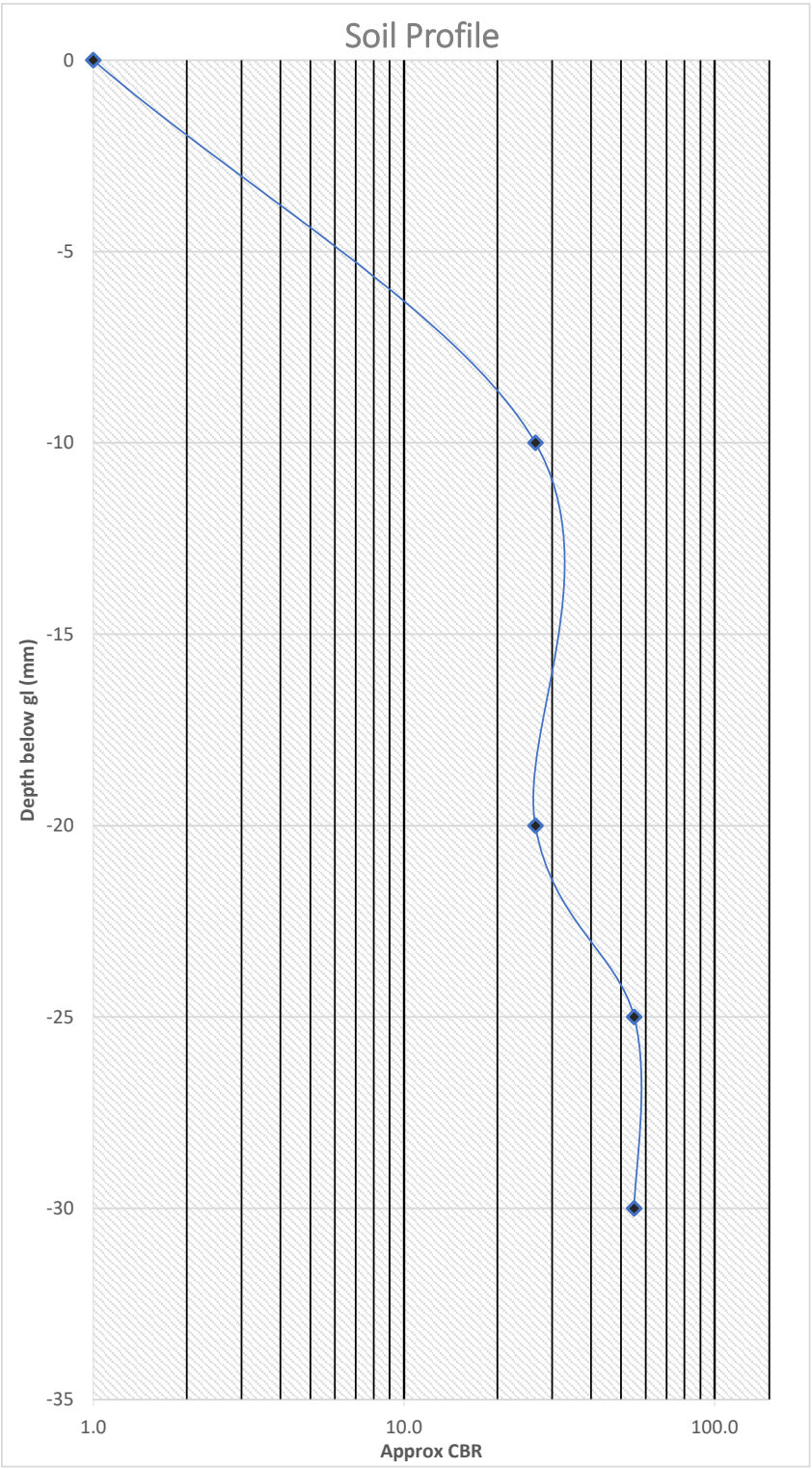
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	150	10	1.4	26.5	-10
2	160	10	1.4	26.5	-20
3	165	5	1.7	55.1	-25
4	170	5	1.7	55.1	-30
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM29

Start depth of test: 0 mm below ground level 0 m

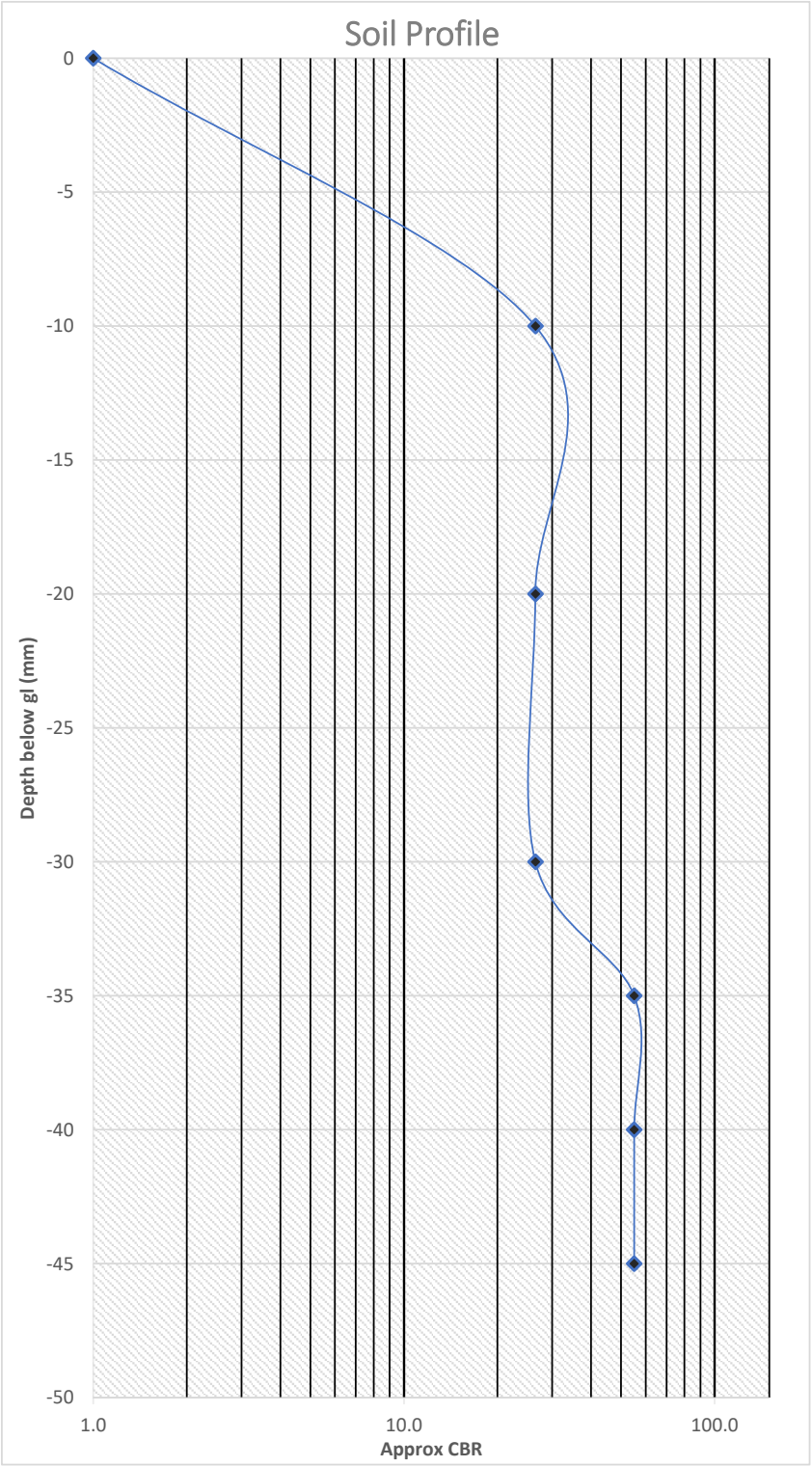
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	165	5	1.7	55.1	-35
5	170	5	1.7	55.1	-40
6	175	5	1.7	55.1	-45
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM30

Start depth of test: 0 mm below ground level 0 m

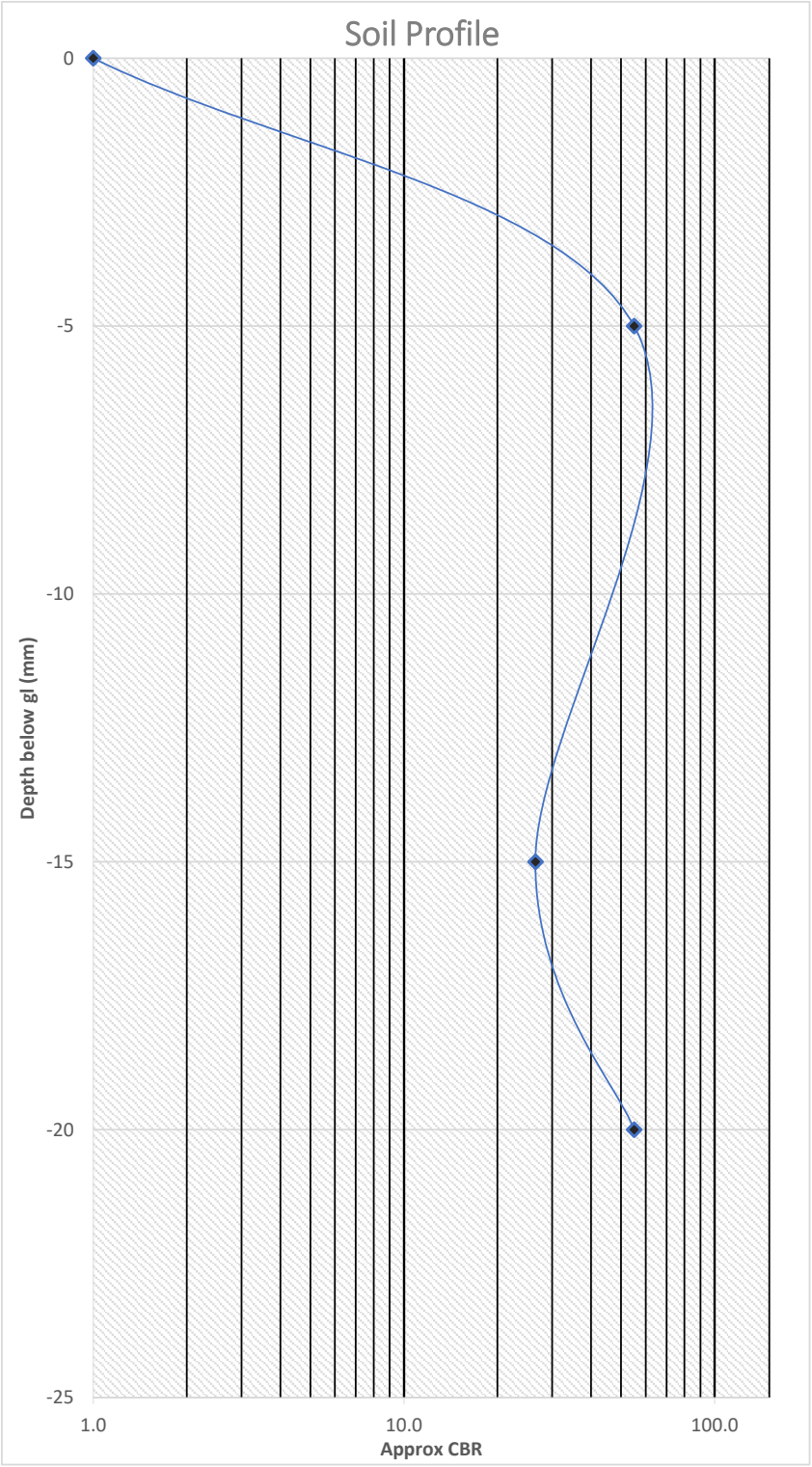
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	140	5	1.7	55.1	-5
2	150	10	1.4	26.5	-15
3	155	5	1.7	55.1	-20
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM30A

Start depth of test: 0 mm below ground level 0 m

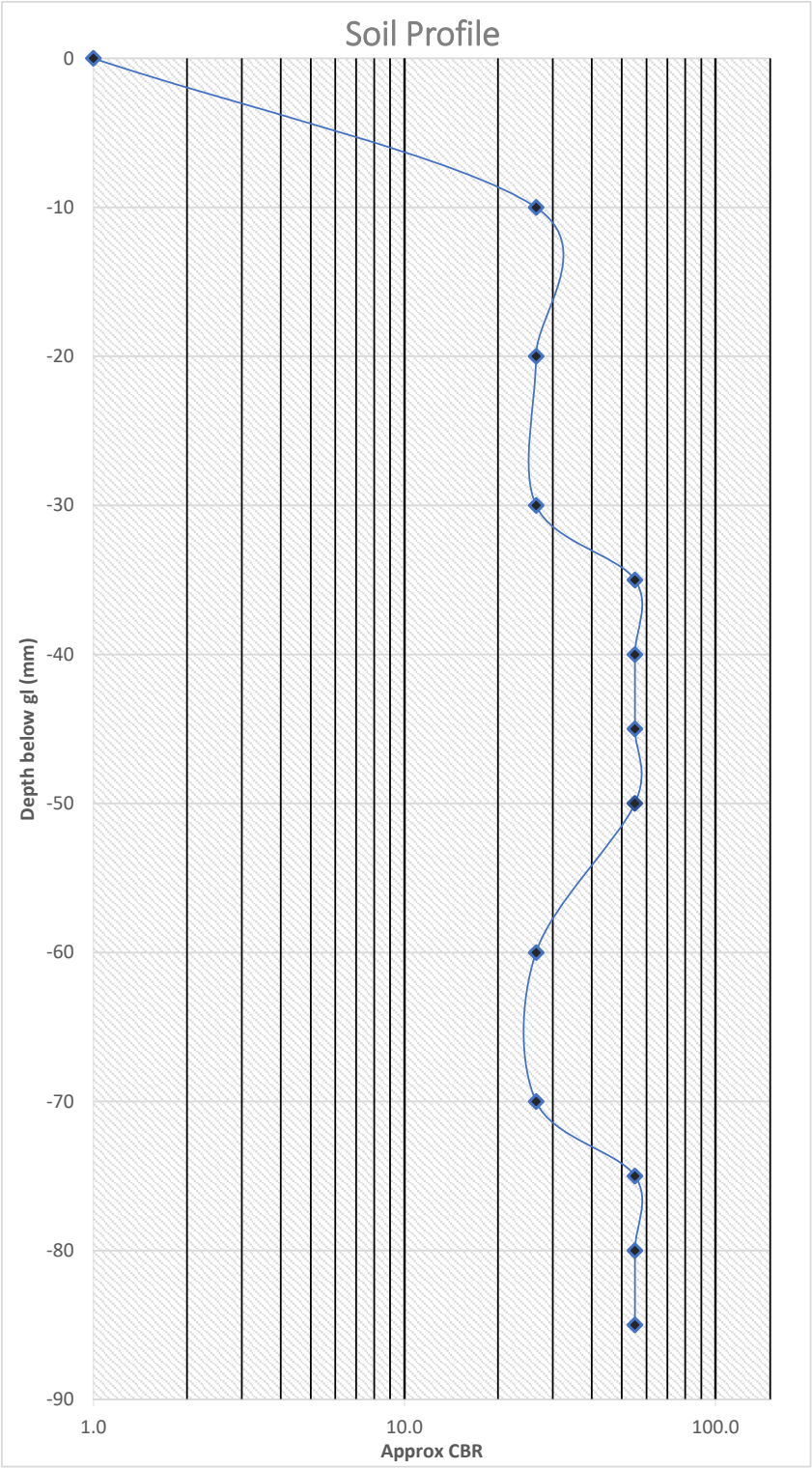
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	165	5	1.7	55.1	-35
5	170	5	1.7	55.1	-40
6	175	5	1.7	55.1	-45
7	180	5	1.7	55.1	-50
8	190	10	1.4	26.5	-60
9	200	10	1.4	26.5	-70
10	205	5	1.7	55.1	-75
11	210	5	1.7	55.1	-80
12	215	5	1.7	55.1	-85
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM30b

Start depth of test: 0 mm below ground level 0 m

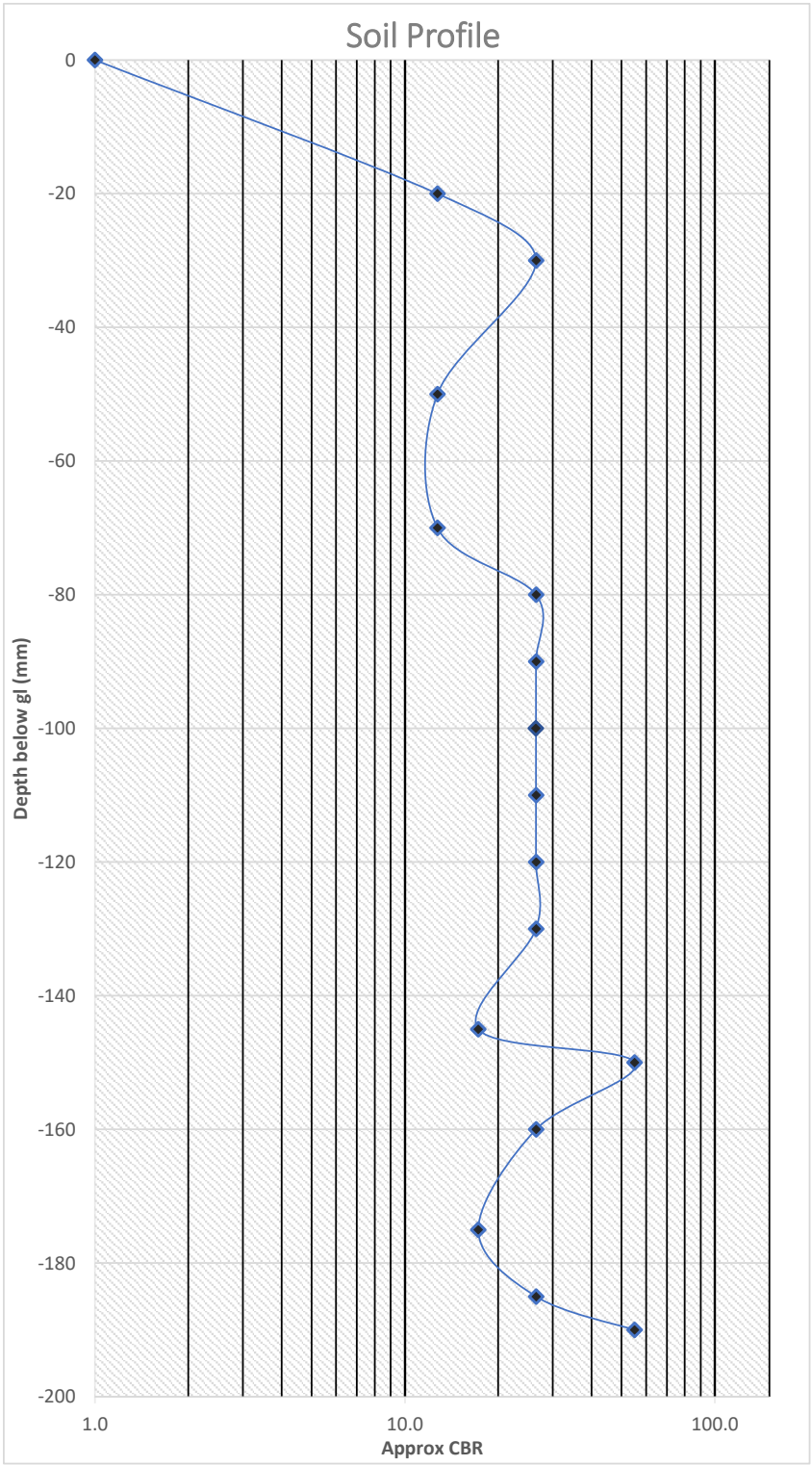
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	150	20	1.1	12.7	-20
2	160	10	1.4	26.5	-30
3	180	20	1.1	12.7	-50
4	200	20	1.1	12.7	-70
5	210	10	1.4	26.5	-80
6	220	10	1.4	26.5	-90
7	230	10	1.4	26.5	-100
8	240	10	1.4	26.5	-110
9	250	10	1.4	26.5	-120
10	260	10	1.4	26.5	-130
11	275	15	1.2	17.3	-145
12	280	5	1.7	55.1	-150
13	290	10	1.4	26.5	-160
14	305	15	1.2	17.3	-175
15	315	10	1.4	26.5	-185
16	320	5	1.7	55.1	-190
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM30c

Start depth of test: 0 mm below ground level 0 m

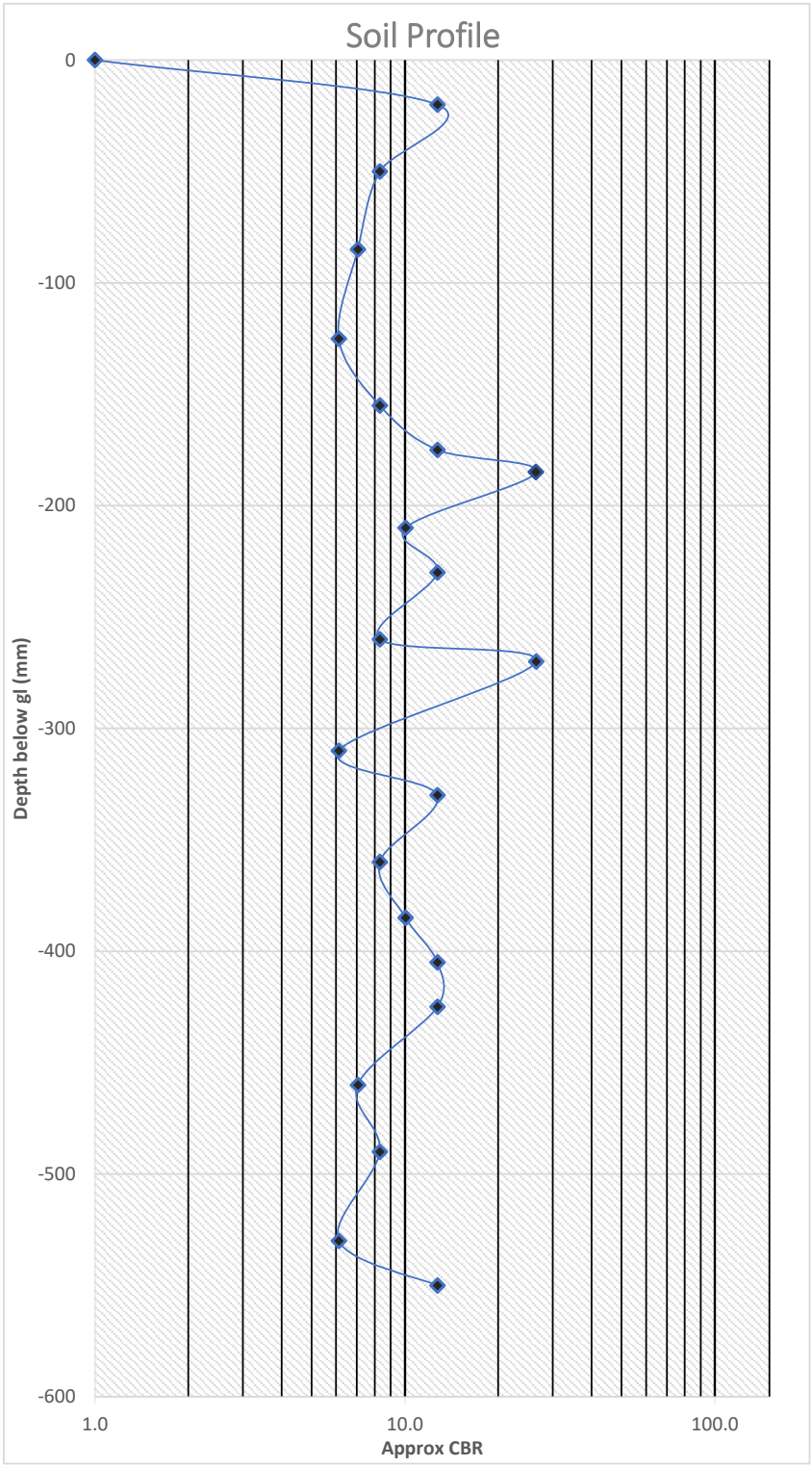
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	160	20	1.1	12.7	-20
2	190	30	0.9	8.3	-50
3	225	35	0.8	7.0	-85
4	265	40	0.8	6.1	-125
5	295	30	0.9	8.3	-155
6	315	20	1.1	12.7	-175
7	325	10	1.4	26.5	-185
8	350	25	1.0	10.1	-210
9	370	20	1.1	12.7	-230
10	400	30	0.9	8.3	-260
11	410	10	1.4	26.5	-270
12	450	40	0.8	6.1	-310
13	470	20	1.1	12.7	-330
14	500	30	0.9	8.3	-360
15	525	25	1.0	10.1	-385
16	545	20	1.1	12.7	-405
17	565	20	1.1	12.7	-425
18	600	35	0.8	7.0	-460
19	630	30	0.9	8.3	-490
20	670	40	0.8	6.1	-530
21	690	20	1.1	12.7	-550
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM31

Start depth of test: 0 mm below ground level 0 m

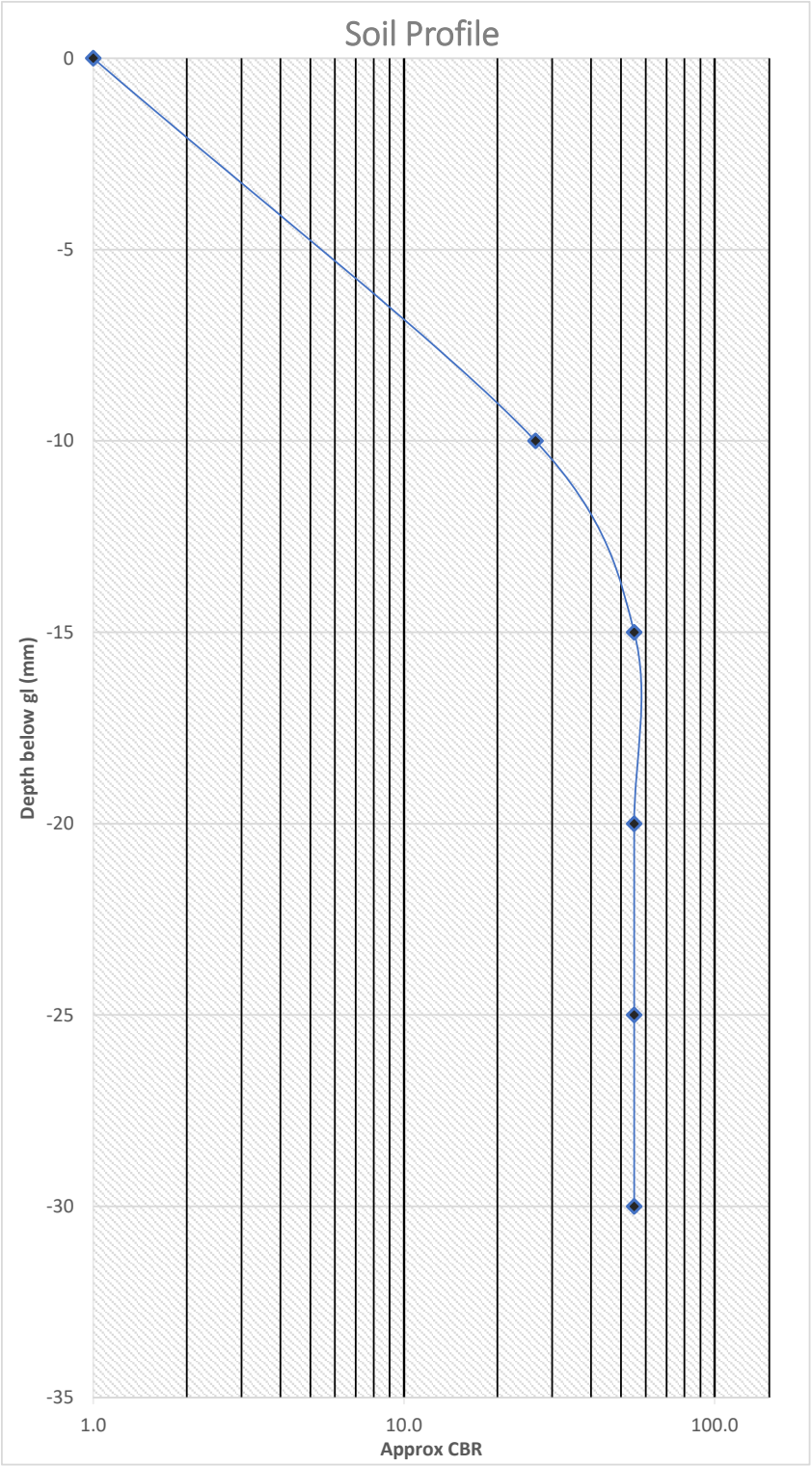
Tested By / on DOR 25/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	145	5	1.7	55.1	-15
3	150	5	1.7	55.1	-20
4	155	5	1.7	55.1	-25
5	160	5	1.7	55.1	-30
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM32

Start depth of test: 0 mm below ground level 0 m

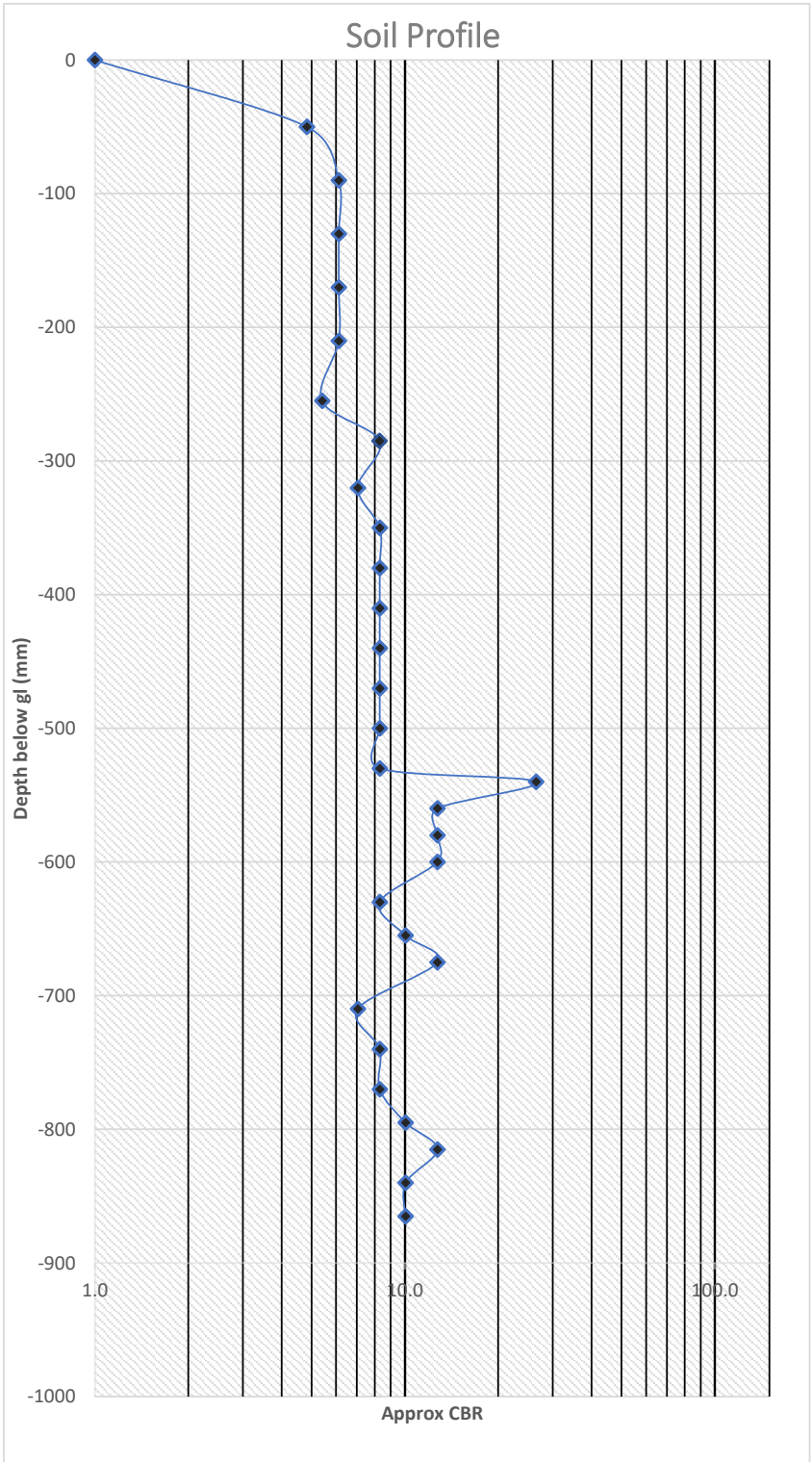
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	180	50	0.7	4.8	-50
2	220	40	0.8	6.1	-90
3	260	40	0.8	6.1	-130
4	300	40	0.8	6.1	-170
5	340	40	0.8	6.1	-210
6	385	45	0.7	5.4	-255
7	415	30	0.9	8.3	-285
8	450	35	0.8	7.0	-320
9	480	30	0.9	8.3	-350
10	510	30	0.9	8.3	-380
11	540	30	0.9	8.3	-410
12	570	30	0.9	8.3	-440
13	600	30	0.9	8.3	-470
14	630	30	0.9	8.3	-500
15	660	30	0.9	8.3	-530
16	670	10	1.4	26.5	-540
17	690	20	1.1	12.7	-560
18	710	20	1.1	12.7	-580
19	730	20	1.1	12.7	-600
20	760	30	0.9	8.3	-630
21	785	25	1.0	10.1	-655
22	805	20	1.1	12.7	-675
23	840	35	0.8	7.0	-710
24	870	30	0.9	8.3	-740
25	900	30	0.9	8.3	-770
26	925	25	1.0	10.1	-795
27	945	20	1.1	12.7	-815
28	970	25	1.0	10.1	-840
29	995	25	1.0	10.1	-865
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM33

Start depth of test: 0 mm below ground level 0 m

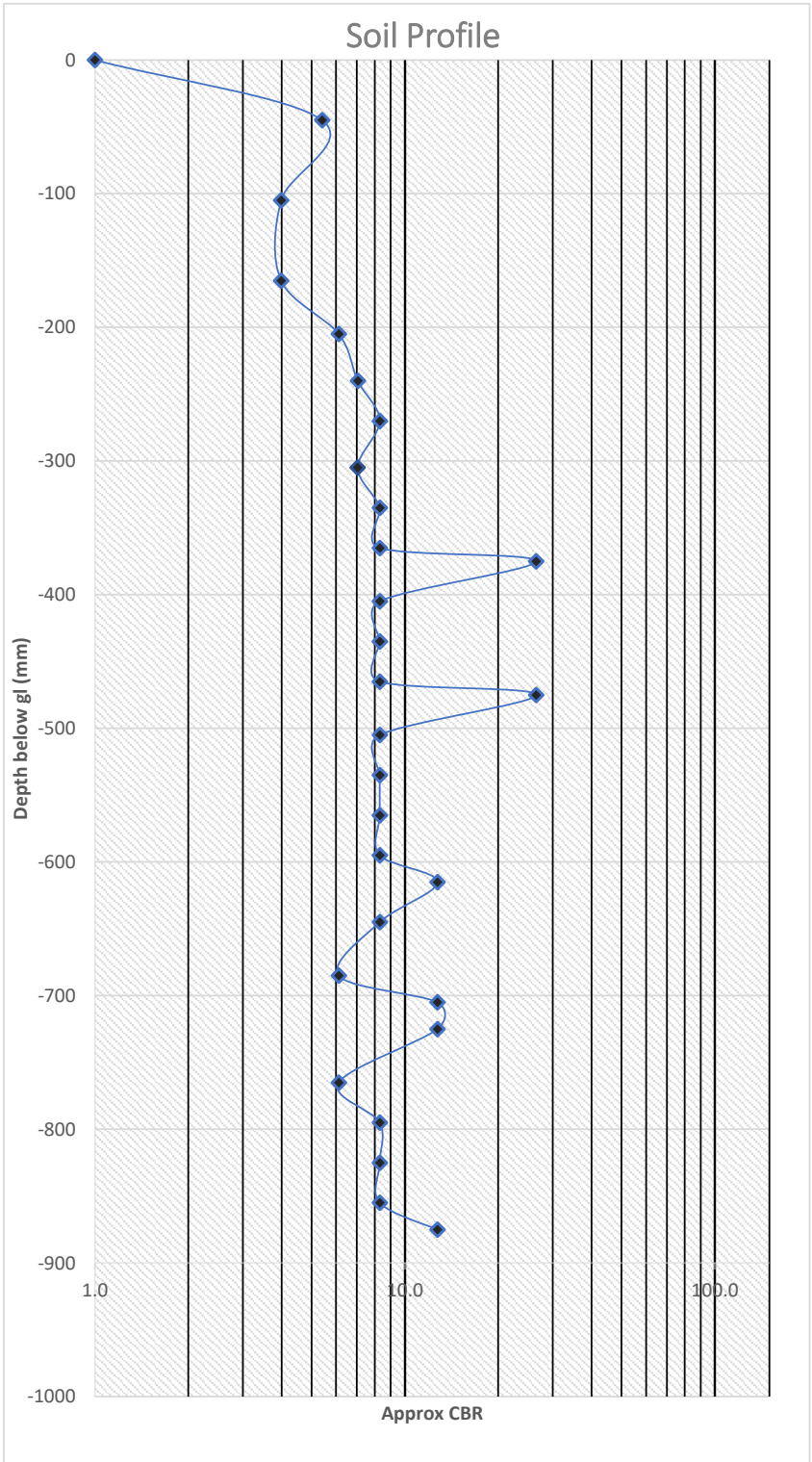
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	180	45	0.7	5.4	-45
2	240	60	0.6	4.0	-105
3	300	60	0.6	4.0	-165
4	340	40	0.8	6.1	-205
5	375	35	0.8	7.0	-240
6	405	30	0.9	8.3	-270
7	440	35	0.8	7.0	-305
8	470	30	0.9	8.3	-335
9	500	30	0.9	8.3	-365
10	510	10	1.4	26.5	-375
11	540	30	0.9	8.3	-405
12	570	30	0.9	8.3	-435
13	600	30	0.9	8.3	-465
14	610	10	1.4	26.5	-475
15	640	30	0.9	8.3	-505
16	670	30	0.9	8.3	-535
17	700	30	0.9	8.3	-565
18	730	30	0.9	8.3	-595
19	750	20	1.1	12.7	-615
20	780	30	0.9	8.3	-645
21	820	40	0.8	6.1	-685
22	840	20	1.1	12.7	-705
23	860	20	1.1	12.7	-725
24	900	40	0.8	6.1	-765
25	930	30	0.9	8.3	-795
26	960	30	0.9	8.3	-825
27	990	30	0.9	8.3	-855
28	1010	20	1.1	12.7	-875
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM34

Start depth of test: 0 mm below ground level 0 m

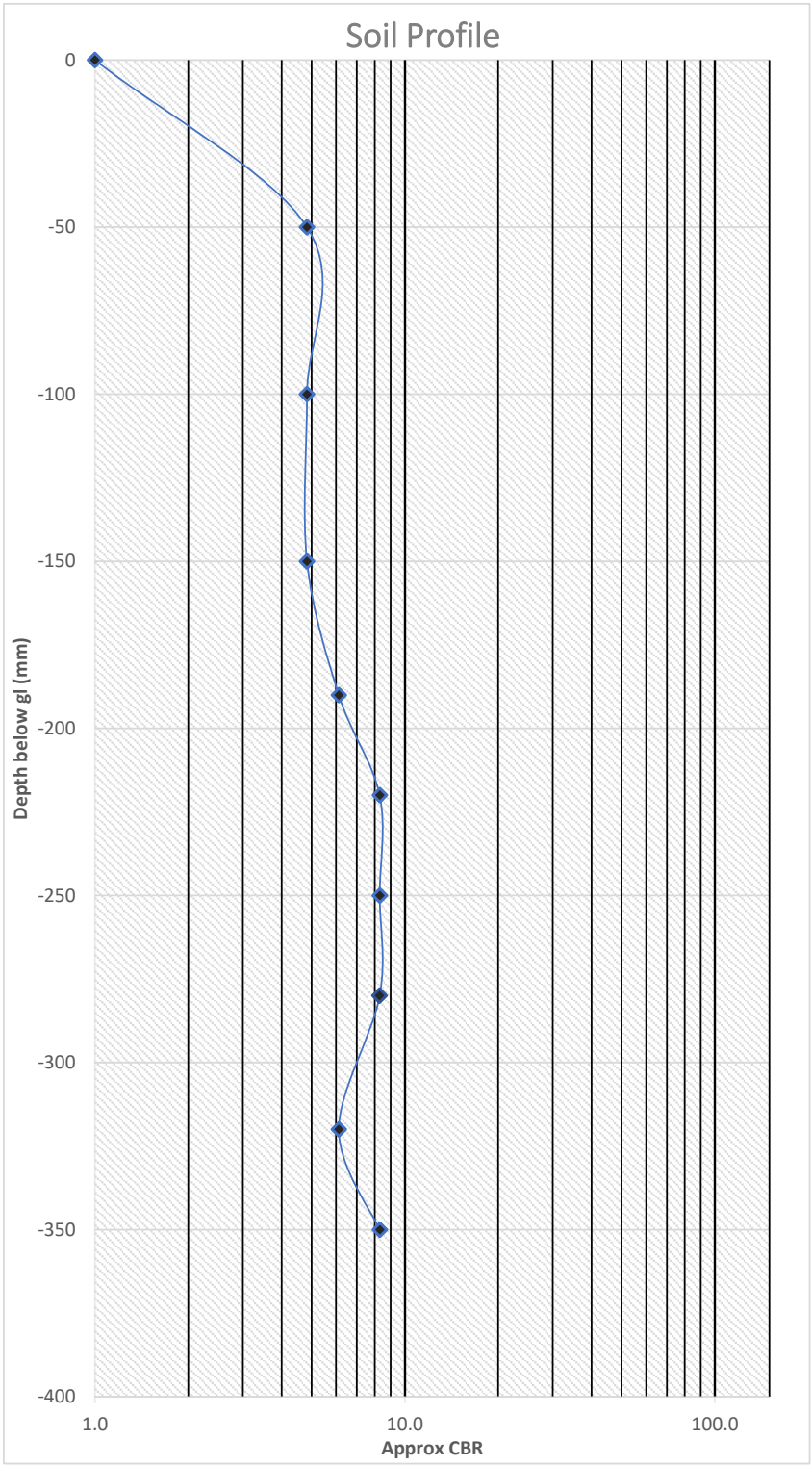
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	190	50	0.7	4.8	-50
2	240	50	0.7	4.8	-100
3	290	50	0.7	4.8	-150
4	330	40	0.8	6.1	-190
5	360	30	0.9	8.3	-220
6	390	30	0.9	8.3	-250
7	420	30	0.9	8.3	-280
8	460	40	0.8	6.1	-320
9	490	30	0.9	8.3	-350
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM35

Start depth of test: 0 mm below ground level 0 m

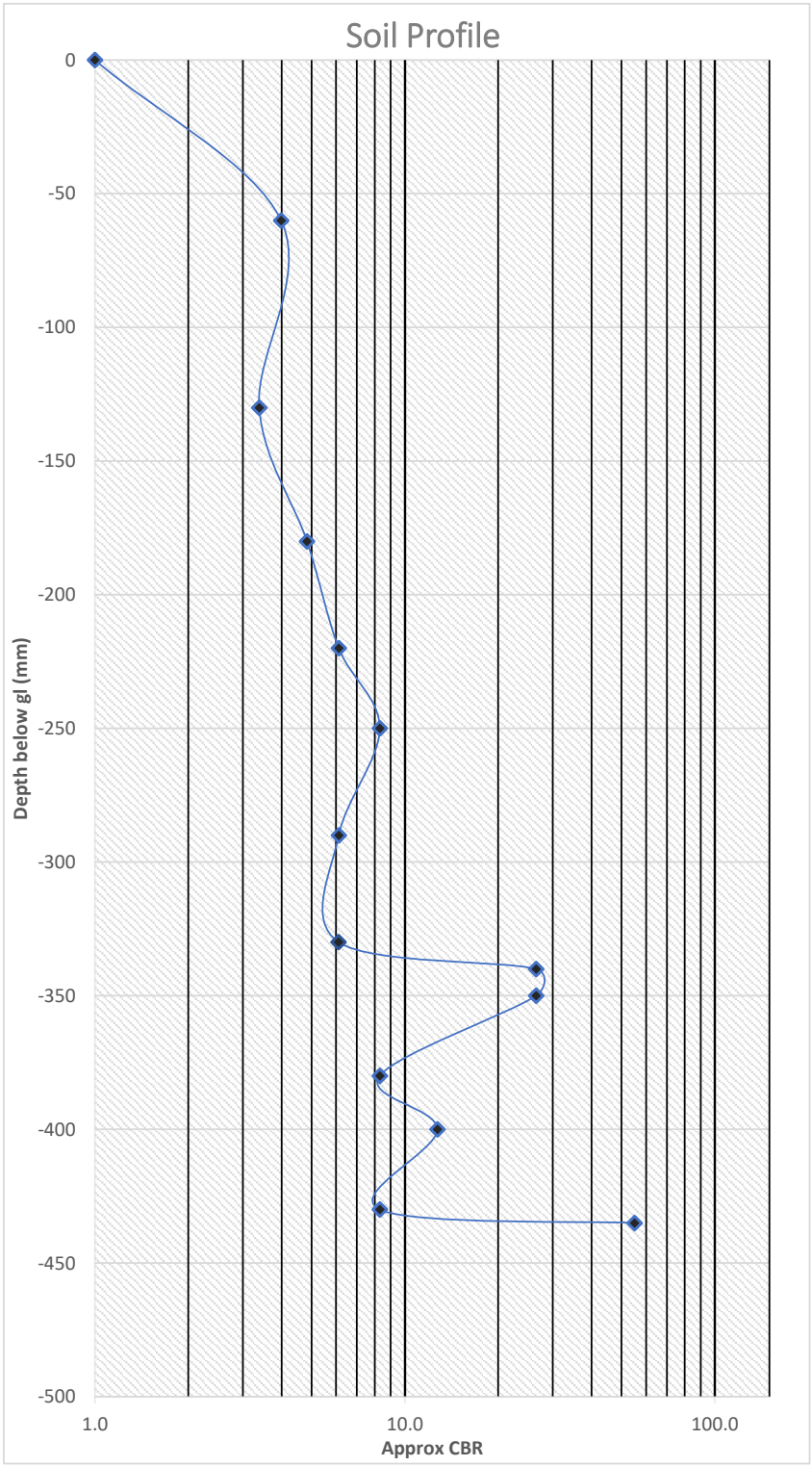
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	190	60	0.6	4.0	-60
2	260	70	0.5	3.4	-130
3	310	50	0.7	4.8	-180
4	350	40	0.8	6.1	-220
5	380	30	0.9	8.3	-250
6	420	40	0.8	6.1	-290
7	460	40	0.8	6.1	-330
8	470	10	1.4	26.5	-340
9	480	10	1.4	26.5	-350
10	510	30	0.9	8.3	-380
11	530	20	1.1	12.7	-400
12	560	30	0.9	8.3	-430
13	565	5	1.7	55.1	-435
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM36

Start depth of test: 0 mm below ground level 0 m

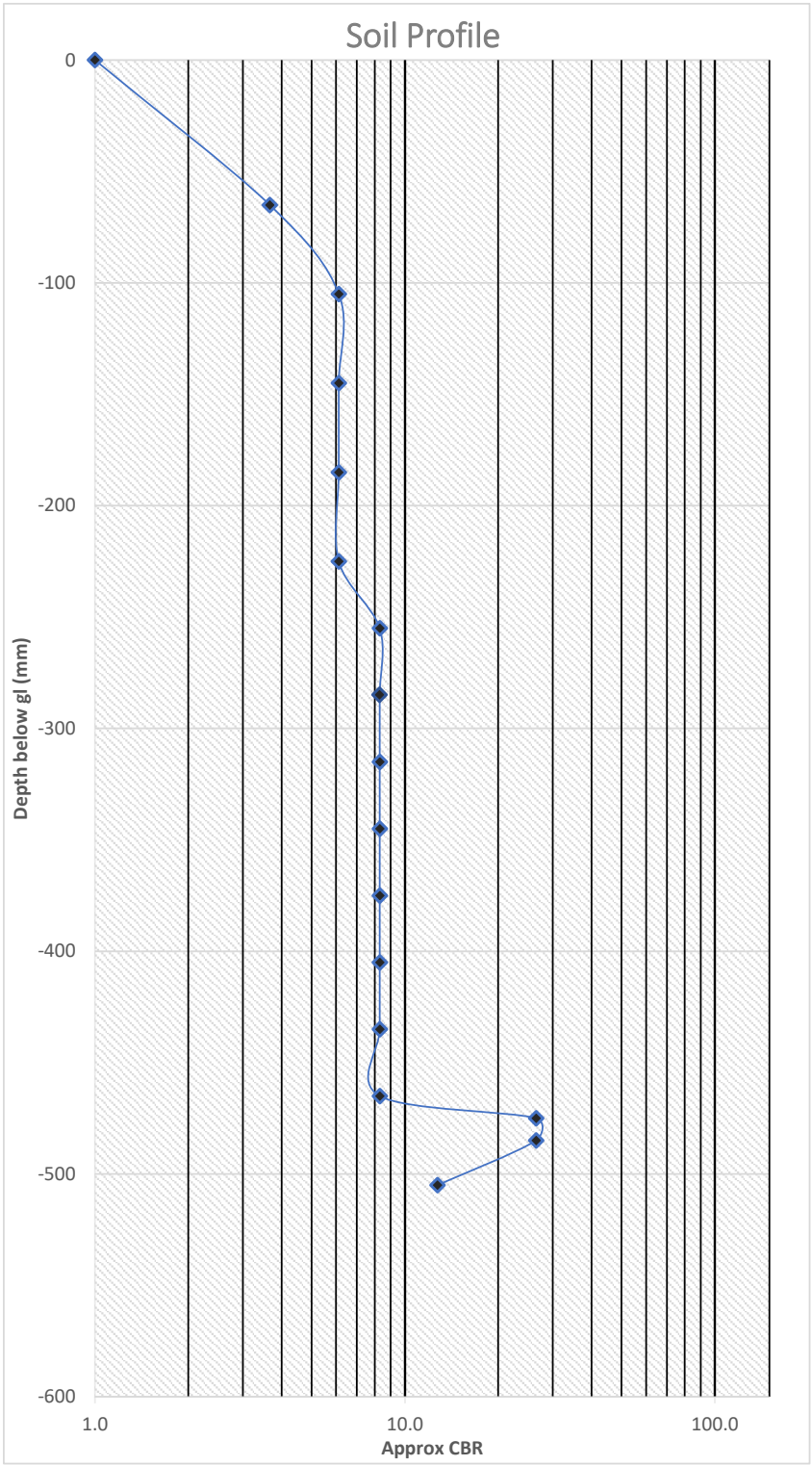
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	200	65	0.6	3.7	-65
2	240	40	0.8	6.1	-105
3	280	40	0.8	6.1	-145
4	320	40	0.8	6.1	-185
5	360	40	0.8	6.1	-225
6	390	30	0.9	8.3	-255
7	420	30	0.9	8.3	-285
8	450	30	0.9	8.3	-315
9	480	30	0.9	8.3	-345
10	510	30	0.9	8.3	-375
11	540	30	0.9	8.3	-405
12	570	30	0.9	8.3	-435
13	600	30	0.9	8.3	-465
14	610	10	1.4	26.5	-475
15	620	10	1.4	26.5	-485
16	640	20	1.1	12.7	-505
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM37

Start depth of test: 0 mm below ground level 0 m

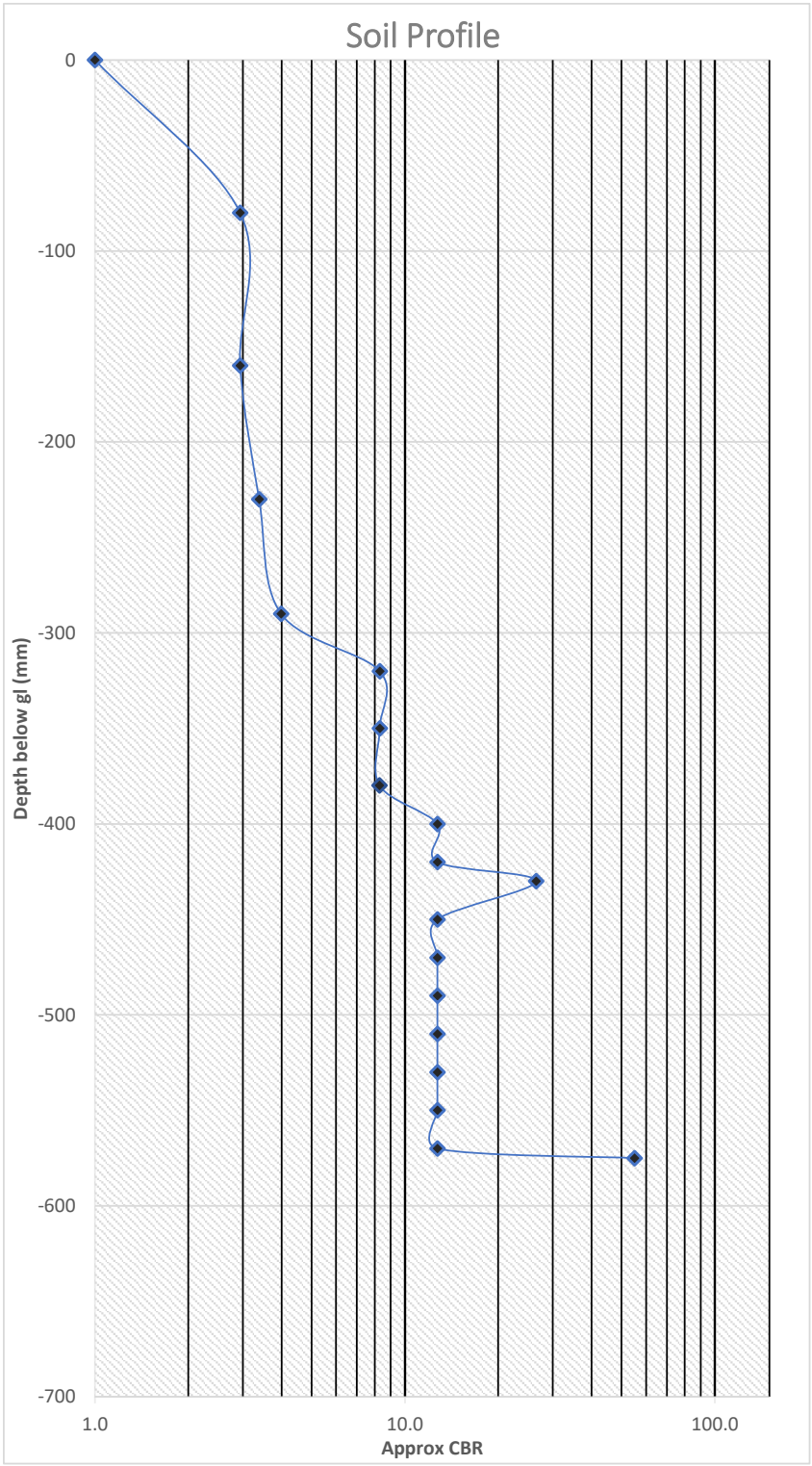
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	210	80	0.5	2.9	-80
2	290	80	0.5	2.9	-160
3	360	70	0.5	3.4	-230
4	420	60	0.6	4.0	-290
5	450	30	0.9	8.3	-320
6	480	30	0.9	8.3	-350
7	510	30	0.9	8.3	-380
8	530	20	1.1	12.7	-400
9	550	20	1.1	12.7	-420
10	560	10	1.4	26.5	-430
11	580	20	1.1	12.7	-450
12	600	20	1.1	12.7	-470
13	620	20	1.1	12.7	-490
14	640	20	1.1	12.7	-510
15	660	20	1.1	12.7	-530
16	680	20	1.1	12.7	-550
17	700	20	1.1	12.7	-570
18	705	5	1.7	55.1	-575
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM38

Start depth of test: 0 mm below ground level 0 m

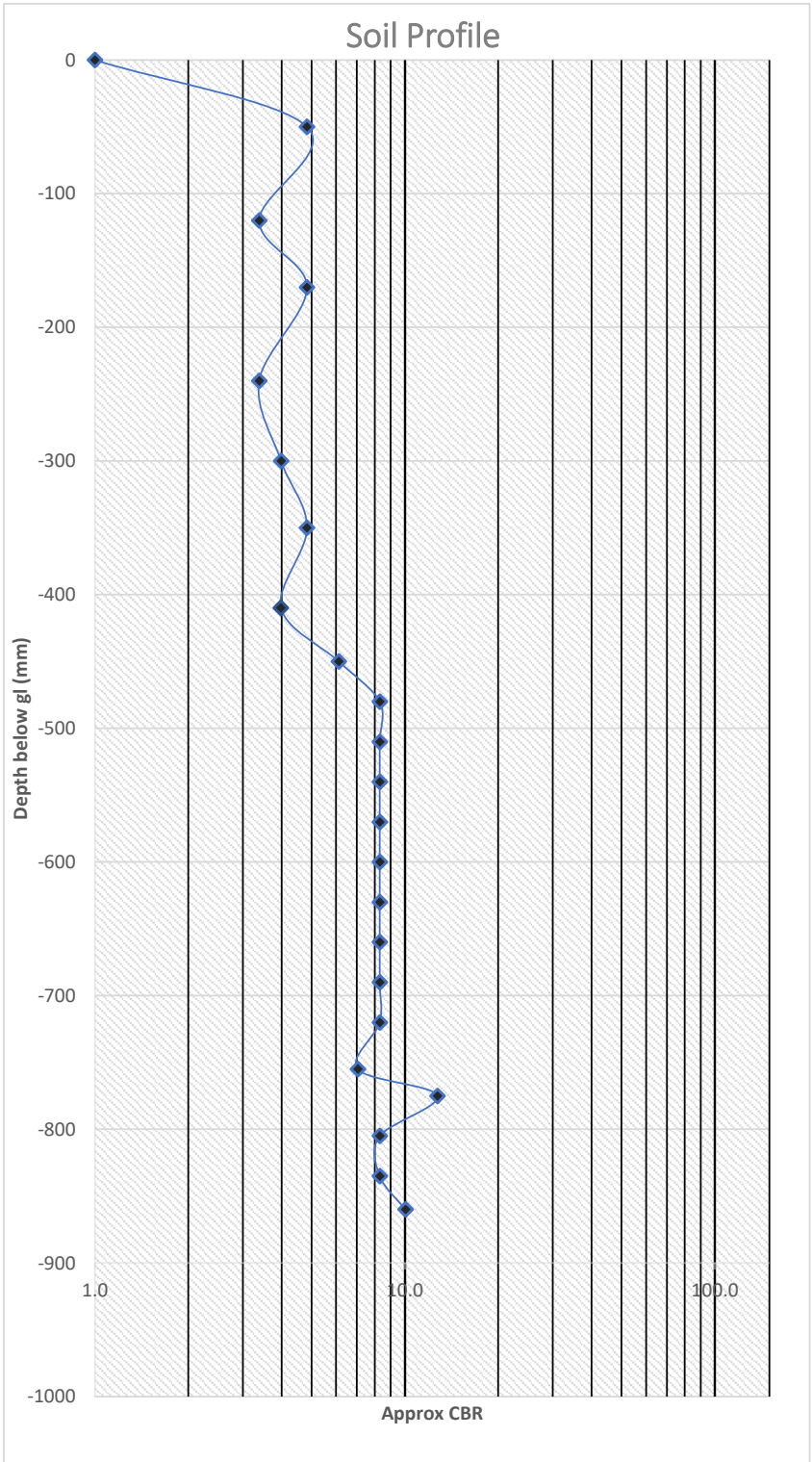
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	190	50	0.7	4.8	-50
2	260	70	0.5	3.4	-120
3	310	50	0.7	4.8	-170
4	380	70	0.5	3.4	-240
5	440	60	0.6	4.0	-300
6	490	50	0.7	4.8	-350
7	550	60	0.6	4.0	-410
8	590	40	0.8	6.1	-450
9	620	30	0.9	8.3	-480
10	650	30	0.9	8.3	-510
11	680	30	0.9	8.3	-540
12	710	30	0.9	8.3	-570
13	740	30	0.9	8.3	-600
14	770	30	0.9	8.3	-630
15	800	30	0.9	8.3	-660
16	830	30	0.9	8.3	-690
17	860	30	0.9	8.3	-720
18	895	35	0.8	7.0	-755
19	915	20	1.1	12.7	-775
20	945	30	0.9	8.3	-805
21	975	30	0.9	8.3	-835
22	1000	25	1.0	10.1	-860
23					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM39

Start depth of test: 0 mm below ground level 0 m

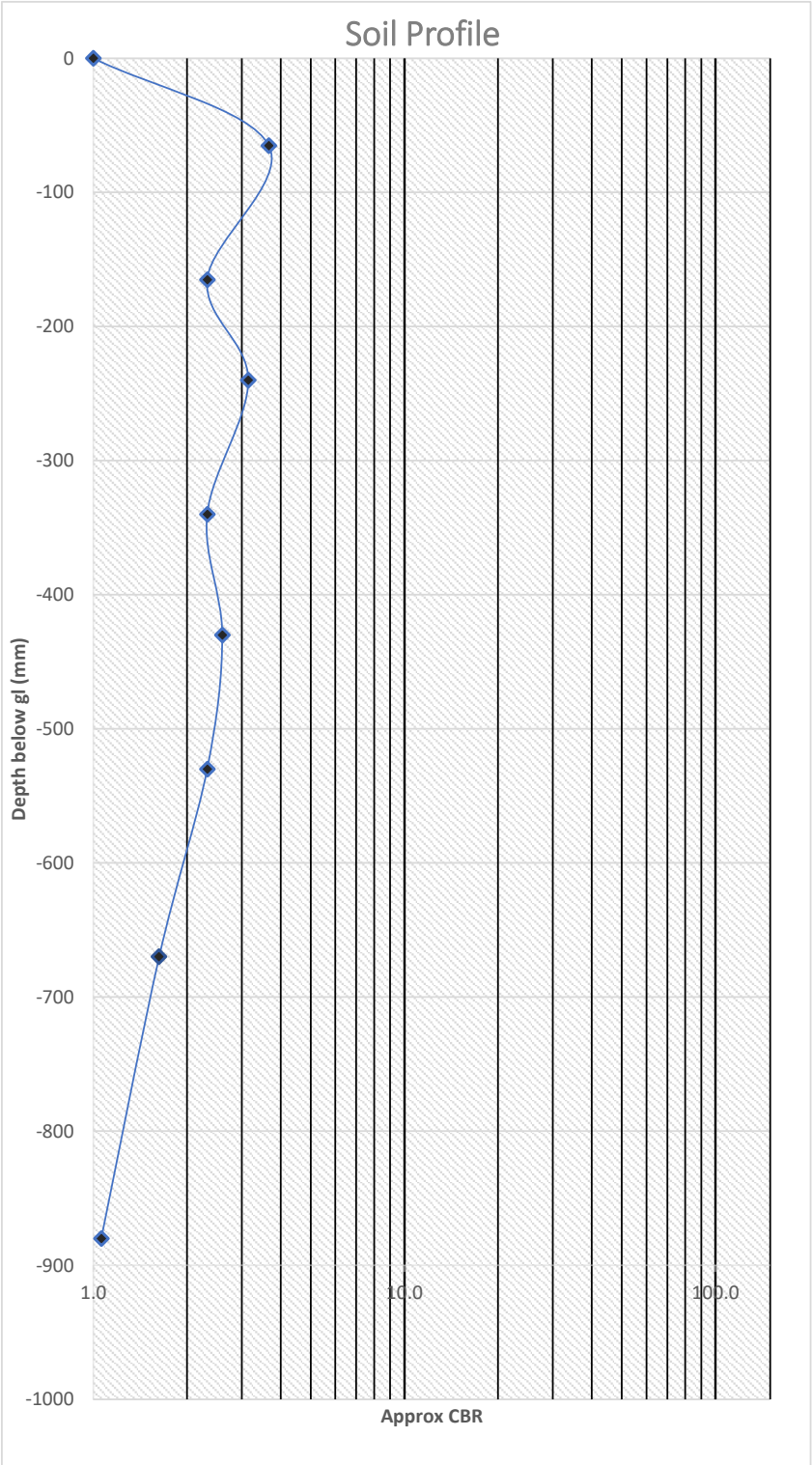
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	195	65	0.6	3.7	-65
2	295	100	0.4	2.3	-165
3	370	75	0.5	3.1	-240
4	470	100	0.4	2.3	-340
5	560	90	0.4	2.6	-430
6	660	100	0.4	2.3	-530
7	800	140	0.2	1.6	-670
8	1010	210	0.0	1.1	-880
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM40

Start depth of test: 0 mm below ground level 0 m

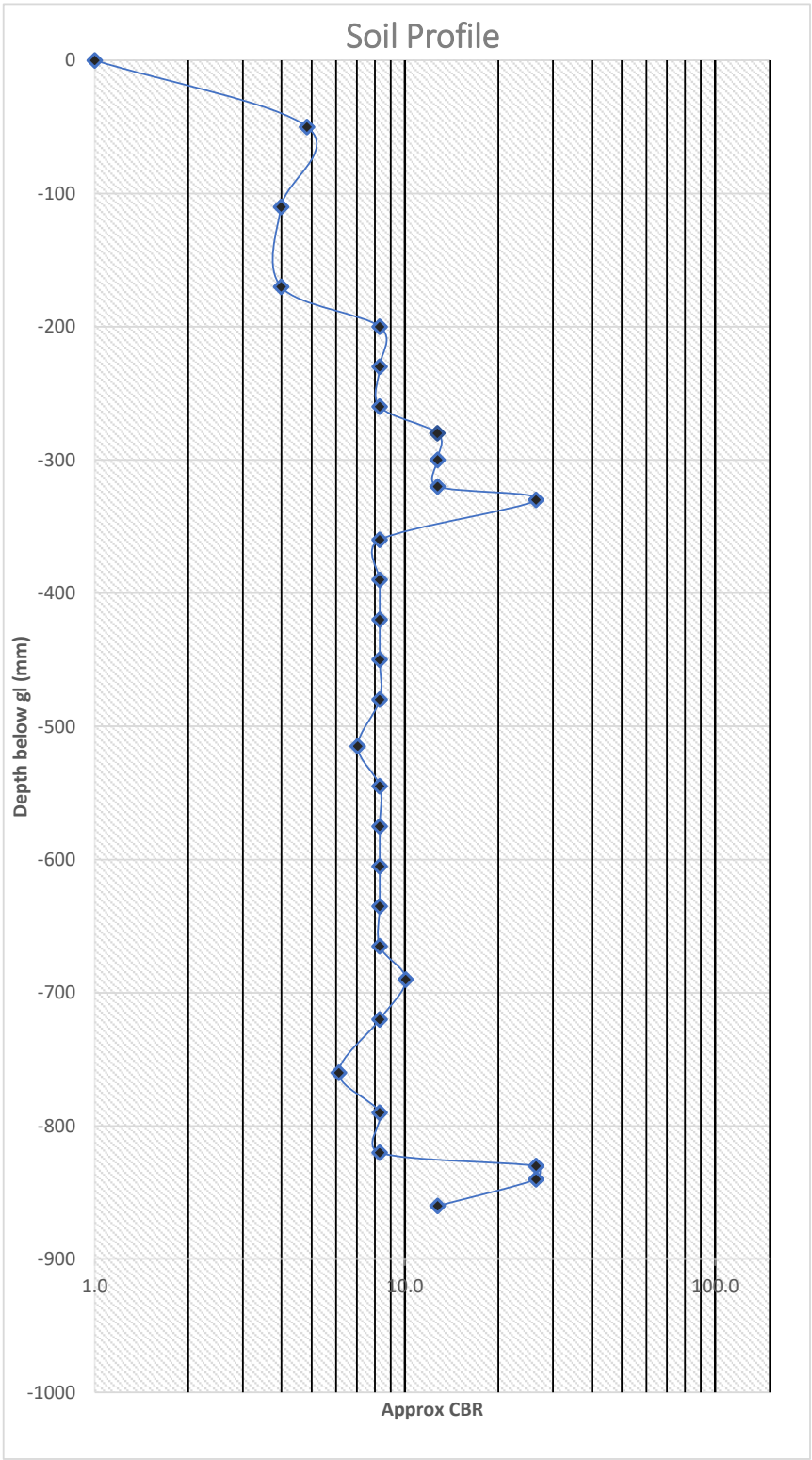
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	190	50	0.7	4.8	-50
2	250	60	0.6	4.0	-110
3	310	60	0.6	4.0	-170
4	340	30	0.9	8.3	-200
5	370	30	0.9	8.3	-230
6	400	30	0.9	8.3	-260
7	420	20	1.1	12.7	-280
8	440	20	1.1	12.7	-300
9	460	20	1.1	12.7	-320
10	470	10	1.4	26.5	-330
11	500	30	0.9	8.3	-360
12	530	30	0.9	8.3	-390
13	560	30	0.9	8.3	-420
14	590	30	0.9	8.3	-450
15	620	30	0.9	8.3	-480
16	655	35	0.8	7.0	-515
17	685	30	0.9	8.3	-545
18	715	30	0.9	8.3	-575
19	745	30	0.9	8.3	-605
20	775	30	0.9	8.3	-635
21	805	30	0.9	8.3	-665
22	830	25	1.0	10.1	-690
23	860	30	0.9	8.3	-720
24	900	40	0.8	6.1	-760
25	930	30	0.9	8.3	-790
26	960	30	0.9	8.3	-820
27	970	10	1.4	26.5	-830
28	980	10	1.4	26.5	-840
29	1000	20	1.1	12.7	-860
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM41

Start depth of test: 0 mm below ground level 0 m

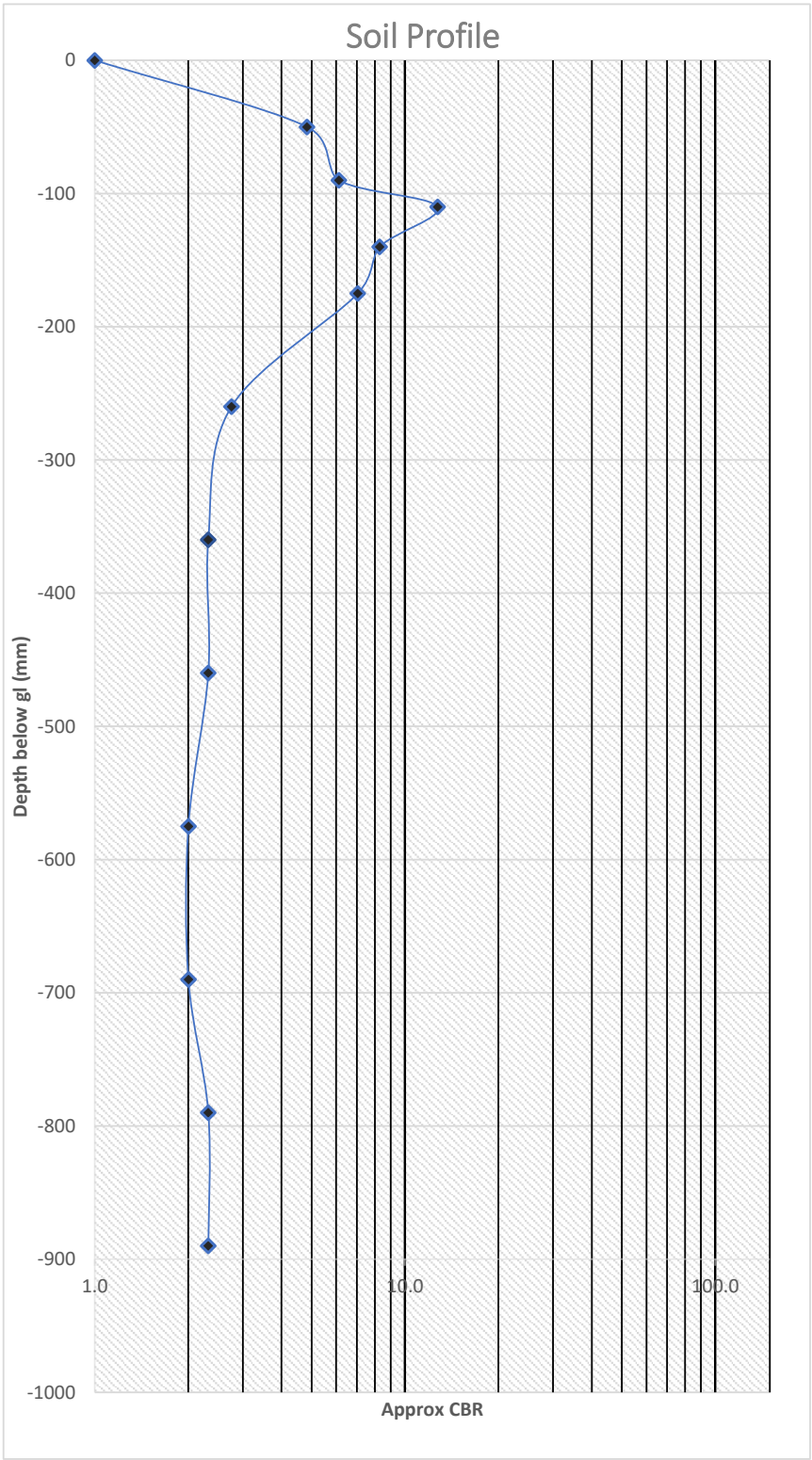
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

Log $_{10}$ (CBR) = 2.48 - 1.057 x Log$_{10}$ (mm/blow)

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	180	50	0.7	4.8	-50
2	220	40	0.8	6.1	-90
3	240	20	1.1	12.7	-110
4	270	30	0.9	8.3	-140
5	305	35	0.8	7.0	-175
6	390	85	0.4	2.8	-260
7	490	100	0.4	2.3	-360
8	590	100	0.4	2.3	-460
9	705	115	0.3	2.0	-575
10	820	115	0.3	2.0	-690
11	920	100	0.4	2.3	-790
12	1020	100	0.4	2.3	-890
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM42

Start depth of test: 0 mm below ground level 0 m

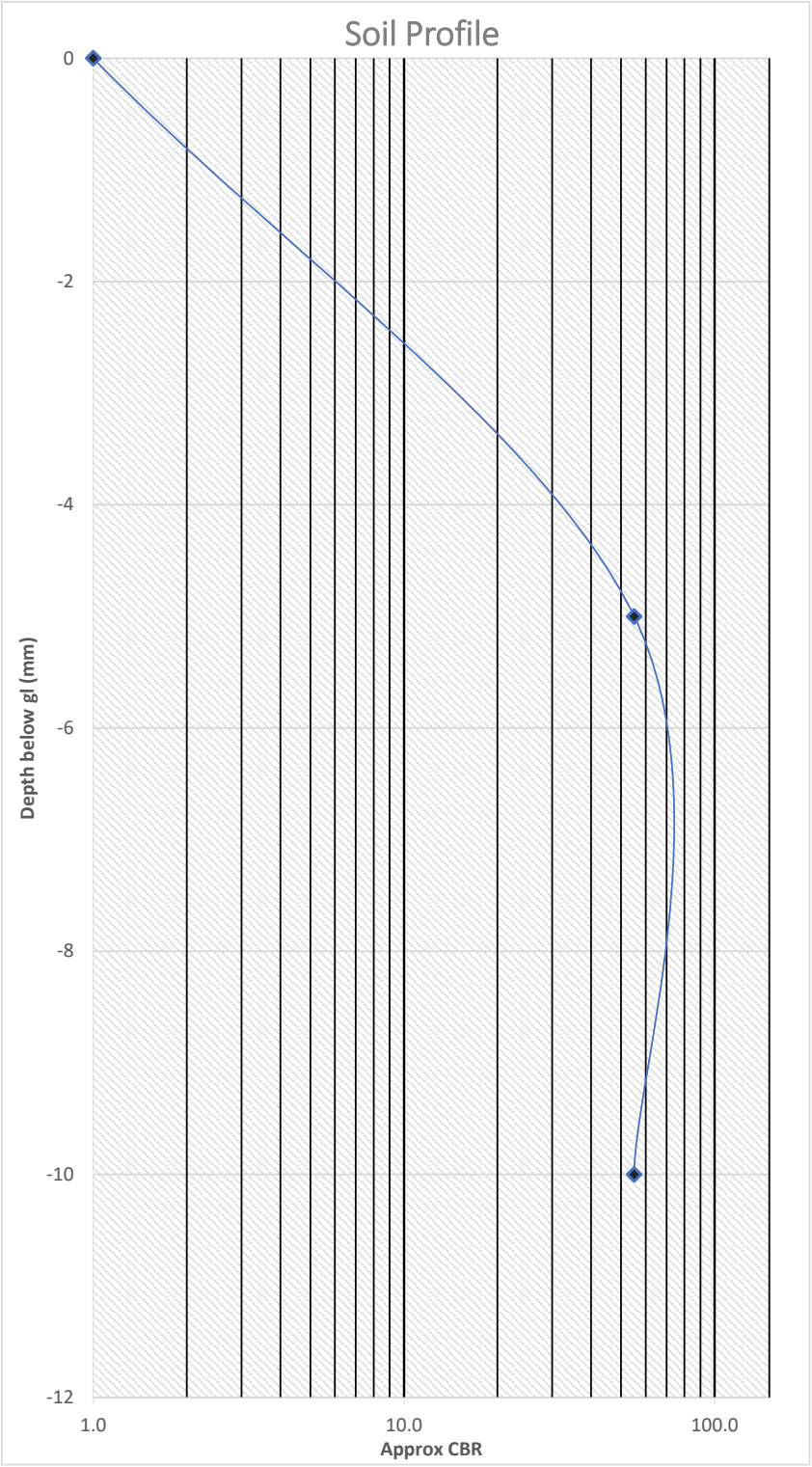
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	135	5	1.7	55.1	-5
2	140	5	1.7	55.1	-10
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM44

Start depth of test: 0 mm below ground level 0 m

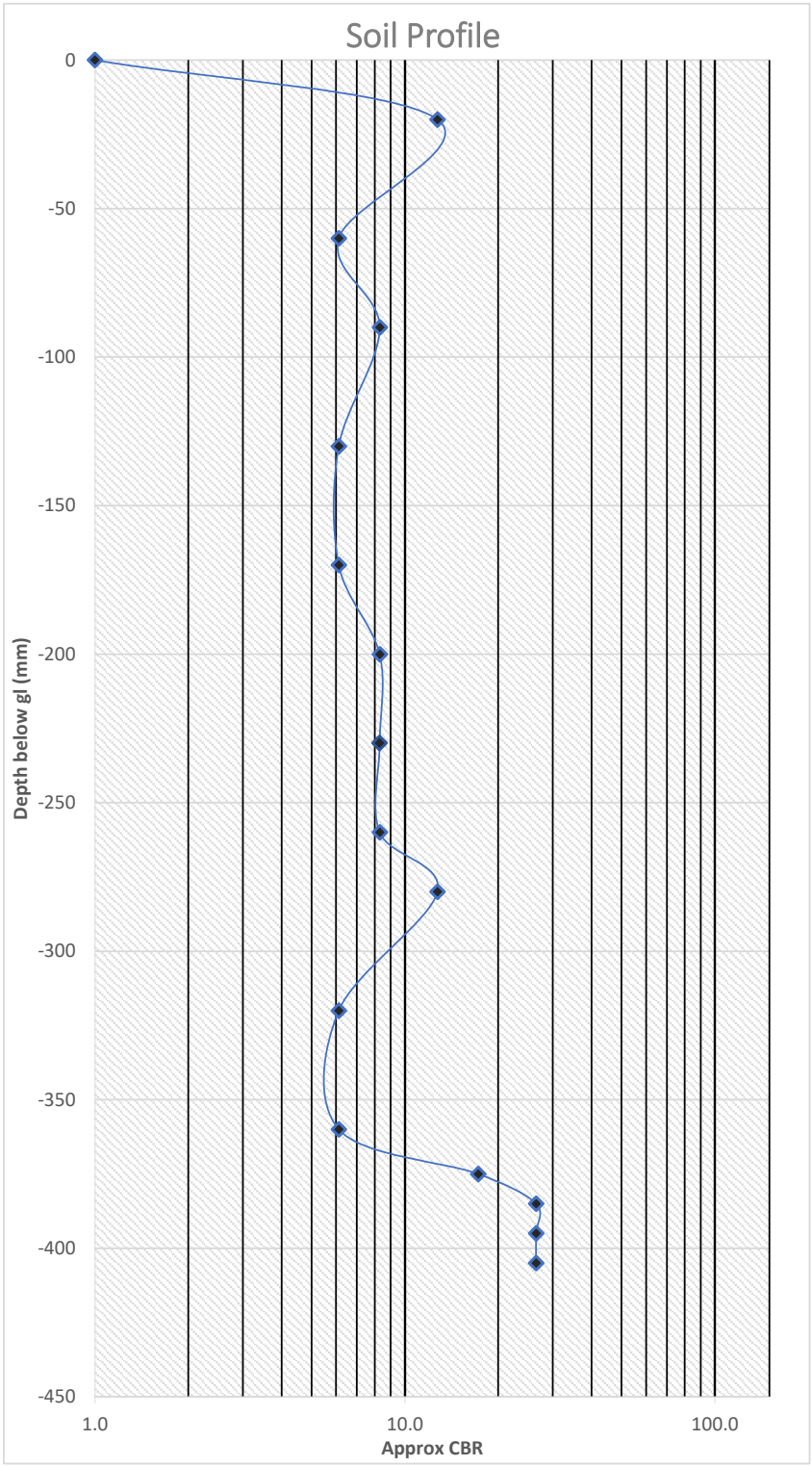
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	150	20	1.1	12.7	-20
2	190	40	0.8	6.1	-60
3	220	30	0.9	8.3	-90
4	260	40	0.8	6.1	-130
5	300	40	0.8	6.1	-170
6	330	30	0.9	8.3	-200
7	360	30	0.9	8.3	-230
8	390	30	0.9	8.3	-260
9	410	20	1.1	12.7	-280
10	450	40	0.8	6.1	-320
11	490	40	0.8	6.1	-360
12	505	15	1.2	17.3	-375
13	515	10	1.4	26.5	-385
14	525	10	1.4	26.5	-395
15	535	10	1.4	26.5	-405
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM45

Start depth of test: 0 mm below ground level 0 m

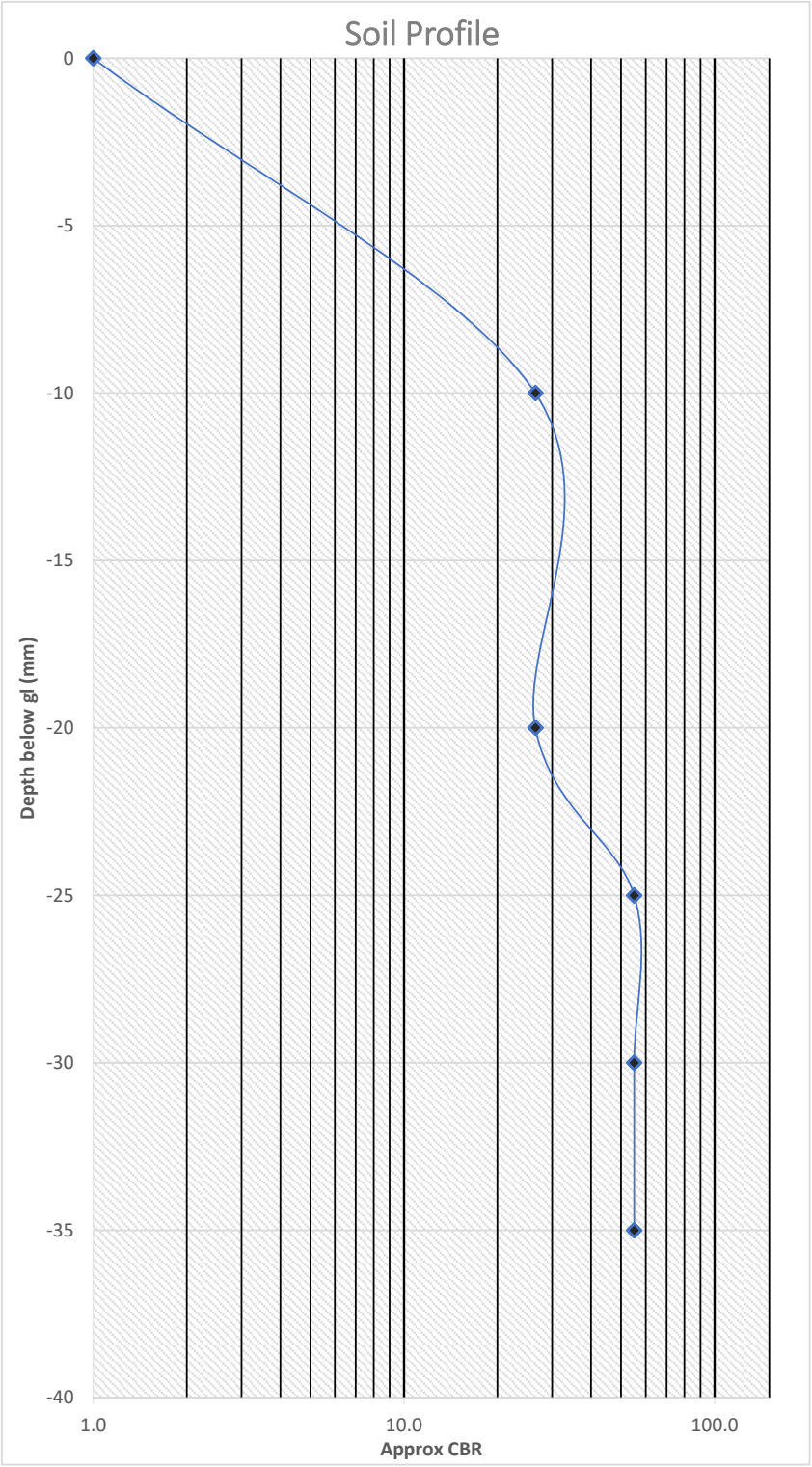
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	150	10	1.4	26.5	-10
2	160	10	1.4	26.5	-20
3	165	5	1.7	55.1	-25
4	170	5	1.7	55.1	-30
5	175	5	1.7	55.1	-35
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM46

Start depth of test: 0 mm below ground level 0 m

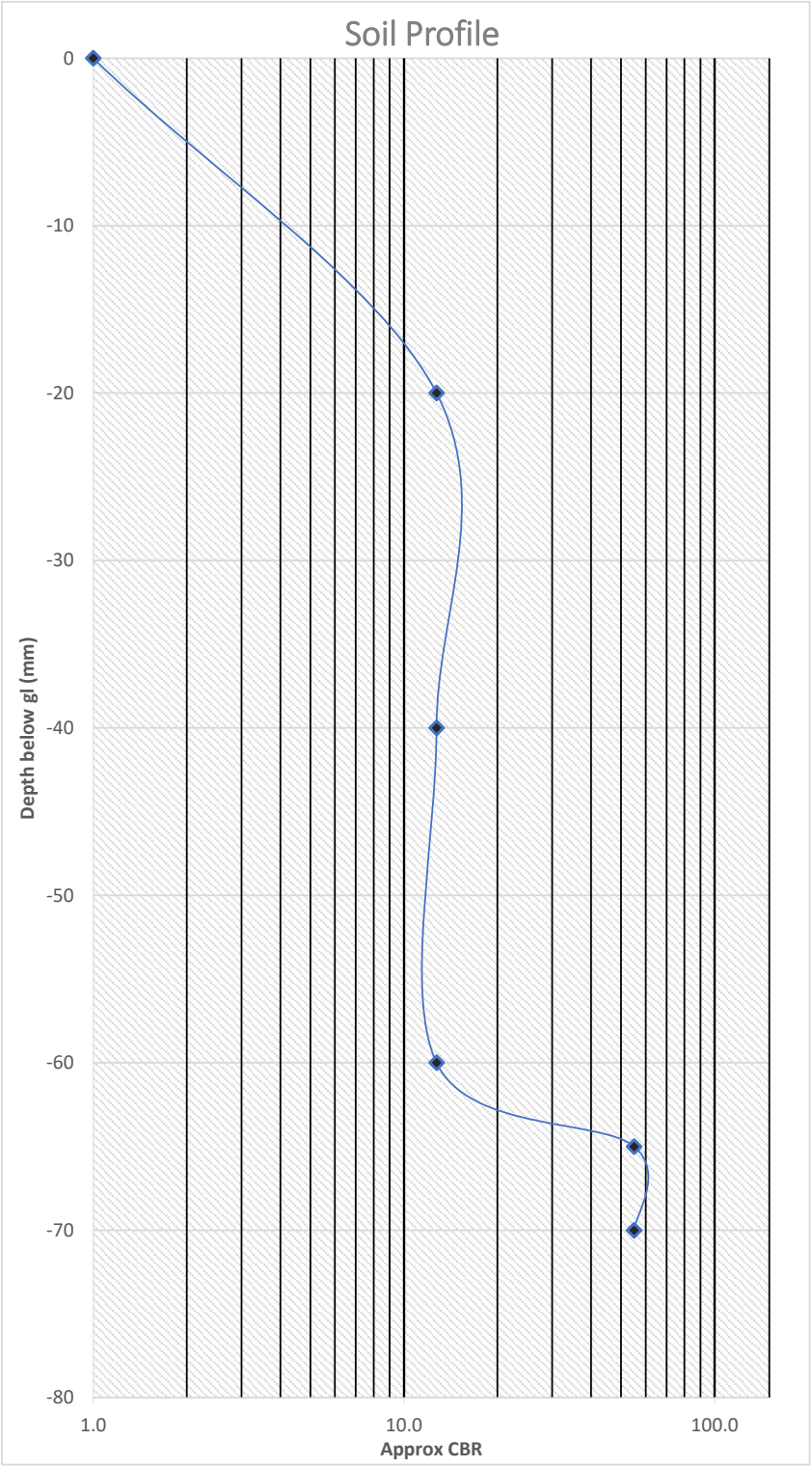
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	150	20	1.1	12.7	-20
2	170	20	1.1	12.7	-40
3	190	20	1.1	12.7	-60
4	195	5	1.7	55.1	-65
5	200	5	1.7	55.1	-70
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM47

Start depth of test: 0 mm below ground level 0 m

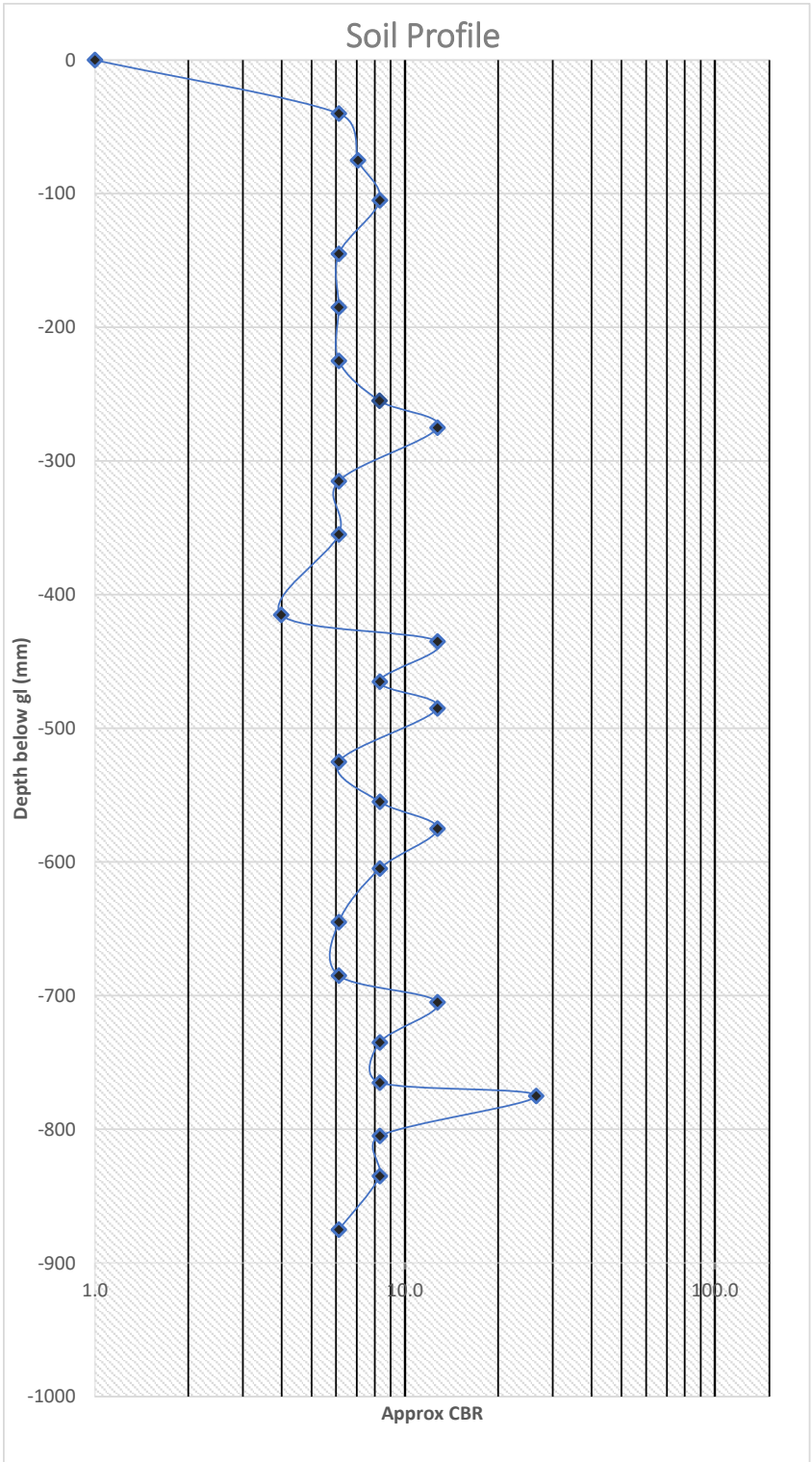
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	175	40	0.8	6.1	-40
2	210	35	0.8	7.0	-75
3	240	30	0.9	8.3	-105
4	280	40	0.8	6.1	-145
5	320	40	0.8	6.1	-185
6	360	40	0.8	6.1	-225
7	390	30	0.9	8.3	-255
8	410	20	1.1	12.7	-275
9	450	40	0.8	6.1	-315
10	490	40	0.8	6.1	-355
11	550	60	0.6	4.0	-415
12	570	20	1.1	12.7	-435
13	600	30	0.9	8.3	-465
14	620	20	1.1	12.7	-485
15	660	40	0.8	6.1	-525
16	690	30	0.9	8.3	-555
17	710	20	1.1	12.7	-575
18	740	30	0.9	8.3	-605
19	780	40	0.8	6.1	-645
20	820	40	0.8	6.1	-685
21	840	20	1.1	12.7	-705
22	870	30	0.9	8.3	-735
23	900	30	0.9	8.3	-765
24	910	10	1.4	26.5	-775
25	940	30	0.9	8.3	-805
26	970	30	0.9	8.3	-835
27	1010	40	0.8	6.1	-875
28					
29					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM49

Start depth of test: 0 mm below ground level 0 m

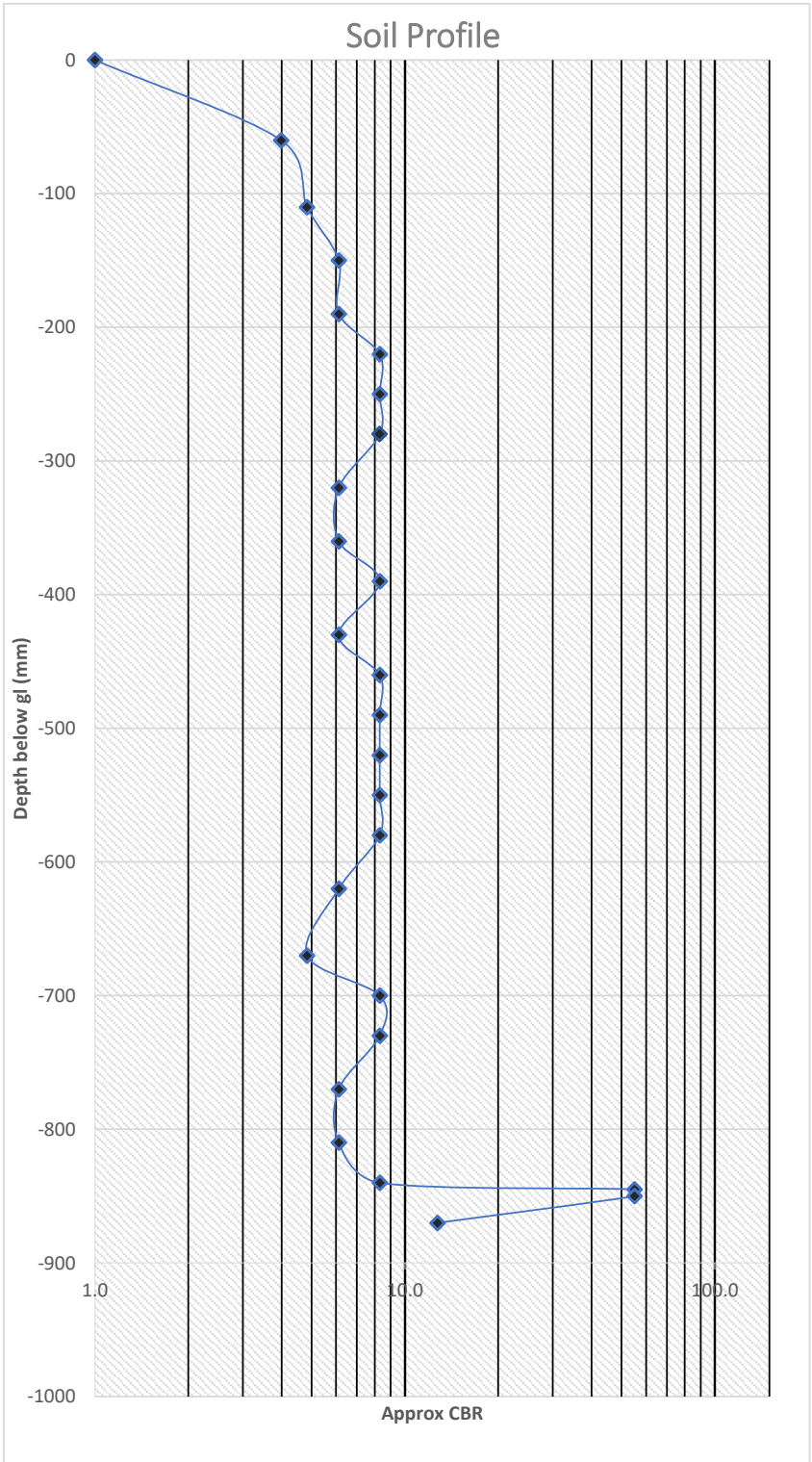
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	190	60	0.6	4.0	-60
2	240	50	0.7	4.8	-110
3	280	40	0.8	6.1	-150
4	320	40	0.8	6.1	-190
5	350	30	0.9	8.3	-220
6	380	30	0.9	8.3	-250
7	410	30	0.9	8.3	-280
8	450	40	0.8	6.1	-320
9	490	40	0.8	6.1	-360
10	520	30	0.9	8.3	-390
11	560	40	0.8	6.1	-430
12	590	30	0.9	8.3	-460
13	620	30	0.9	8.3	-490
14	650	30	0.9	8.3	-520
15	680	30	0.9	8.3	-550
16	710	30	0.9	8.3	-580
17	750	40	0.8	6.1	-620
18	800	50	0.7	4.8	-670
19	830	30	0.9	8.3	-700
20	860	30	0.9	8.3	-730
21	900	40	0.8	6.1	-770
22	940	40	0.8	6.1	-810
23	970	30	0.9	8.3	-840
24	975	5	1.7	55.1	-845
25	980	5	1.7	55.1	-850
26	1000	20	1.1	12.7	-870
27					
28					
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM50

Start depth of test: 0 mm below ground level 0 m

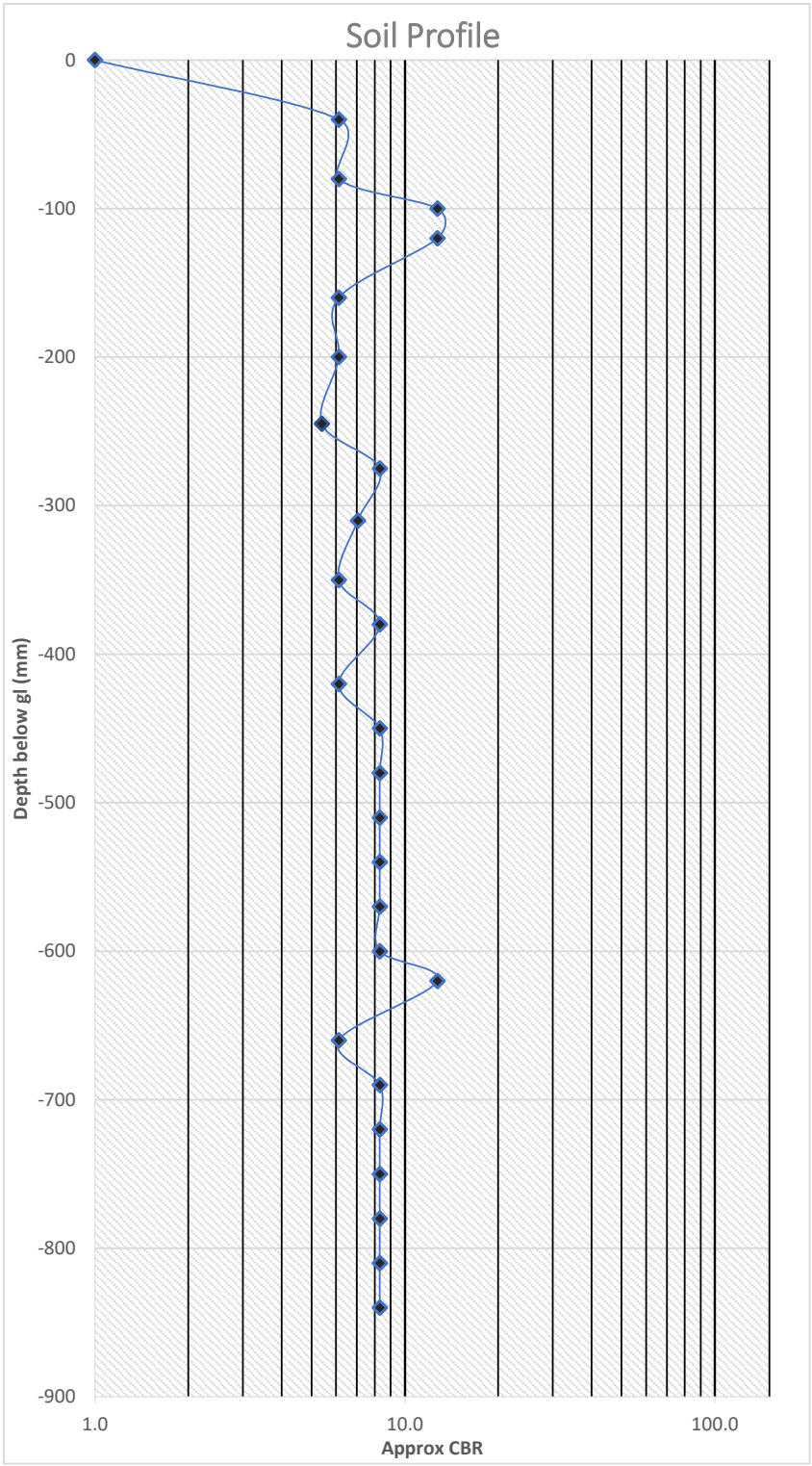
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	180	40	0.8	6.1	-40
2	220	40	0.8	6.1	-80
3	240	20	1.1	12.7	-100
4	260	20	1.1	12.7	-120
5	300	40	0.8	6.1	-160
6	340	40	0.8	6.1	-200
7	385	45	0.7	5.4	-245
8	415	30	0.9	8.3	-275
9	450	35	0.8	7.0	-310
10	490	40	0.8	6.1	-350
11	520	30	0.9	8.3	-380
12	560	40	0.8	6.1	-420
13	590	30	0.9	8.3	-450
14	620	30	0.9	8.3	-480
15	650	30	0.9	8.3	-510
16	680	30	0.9	8.3	-540
17	710	30	0.9	8.3	-570
18	740	30	0.9	8.3	-600
19	760	20	1.1	12.7	-620
20	800	40	0.8	6.1	-660
21	830	30	0.9	8.3	-690
22	860	30	0.9	8.3	-720
23	890	30	0.9	8.3	-750
24	920	30	0.9	8.3	-780
25	950	30	0.9	8.3	-810
26	980	30	0.9	8.3	-840
27					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM51

Start depth of test: 0 mm below ground level 0 m

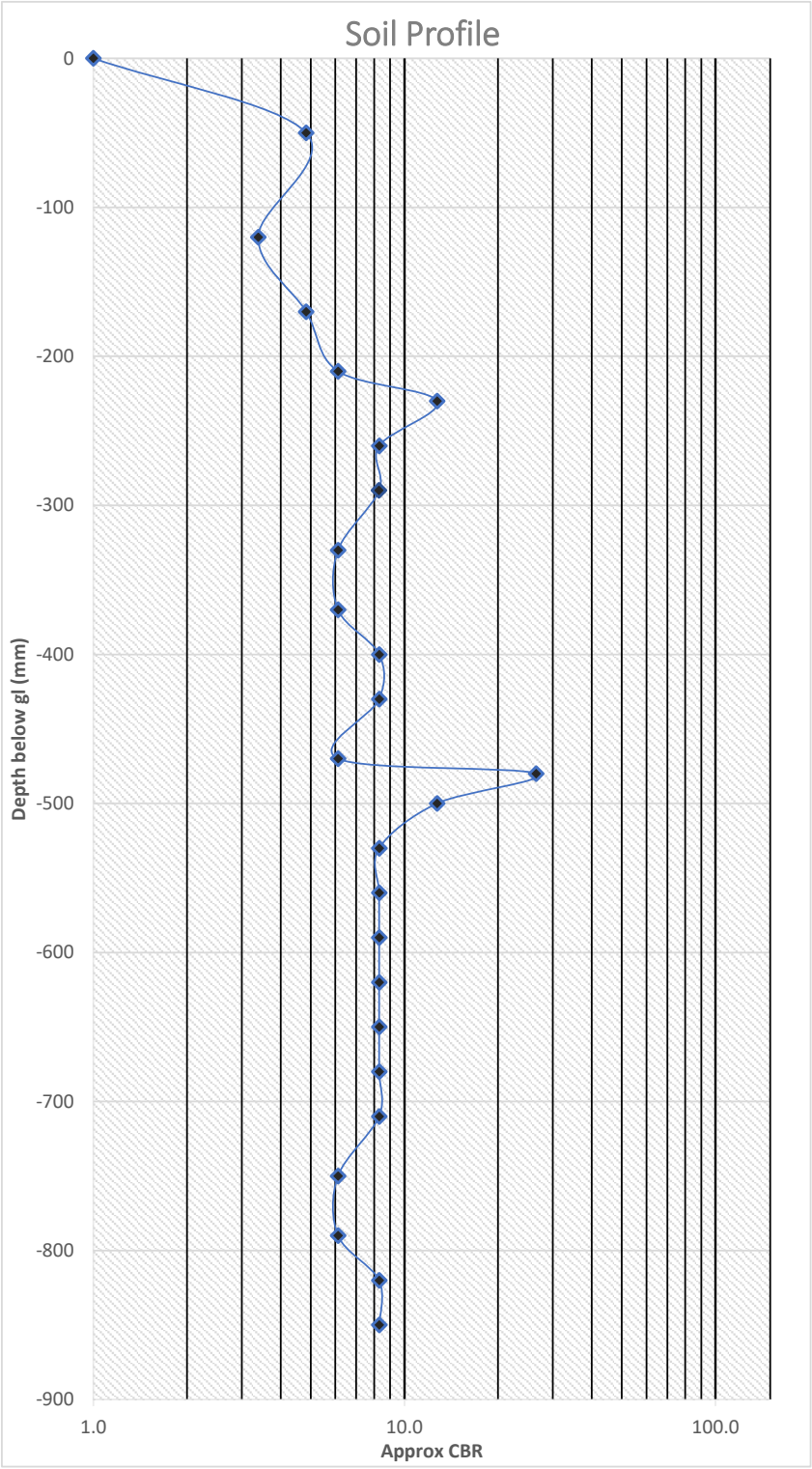
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	180	50	0.7	4.8	-50
2	250	70	0.5	3.4	-120
3	300	50	0.7	4.8	-170
4	340	40	0.8	6.1	-210
5	360	20	1.1	12.7	-230
6	390	30	0.9	8.3	-260
7	420	30	0.9	8.3	-290
8	460	40	0.8	6.1	-330
9	500	40	0.8	6.1	-370
10	530	30	0.9	8.3	-400
11	560	30	0.9	8.3	-430
12	600	40	0.8	6.1	-470
13	610	10	1.4	26.5	-480
14	630	20	1.1	12.7	-500
15	660	30	0.9	8.3	-530
16	690	30	0.9	8.3	-560
17	720	30	0.9	8.3	-590
18	750	30	0.9	8.3	-620
19	780	30	0.9	8.3	-650
20	810	30	0.9	8.3	-680
21	840	30	0.9	8.3	-710
22	880	40	0.8	6.1	-750
23	920	40	0.8	6.1	-790
24	950	30	0.9	8.3	-820
25	980	30	0.9	8.3	-850
26					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM52

Start depth of test: 0 mm below ground level 0 m

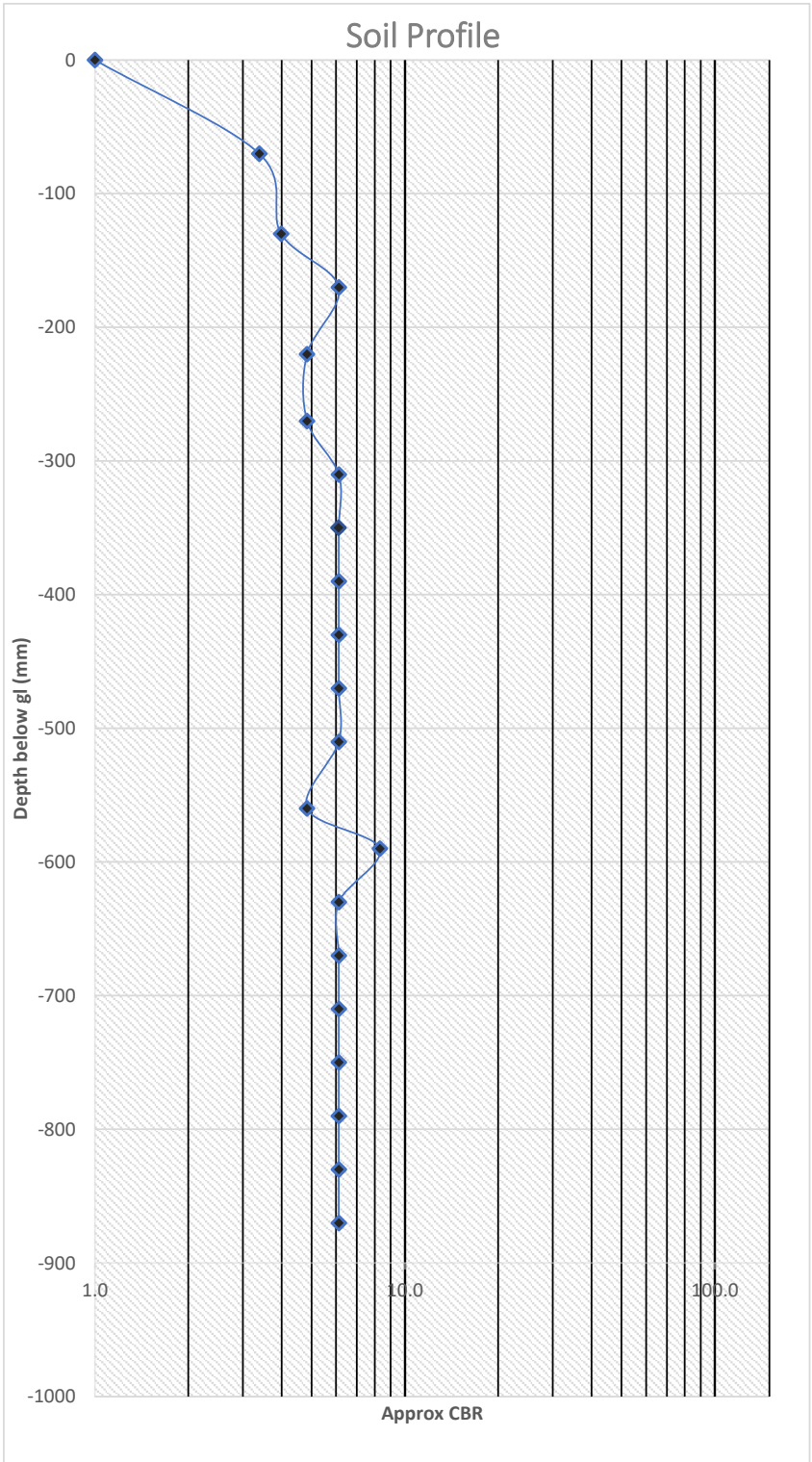
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	200	70	0.5	3.4	-70
2	260	60	0.6	4.0	-130
3	300	40	0.8	6.1	-170
4	350	50	0.7	4.8	-220
5	400	50	0.7	4.8	-270
6	440	40	0.8	6.1	-310
7	480	40	0.8	6.1	-350
8	520	40	0.8	6.1	-390
9	560	40	0.8	6.1	-430
10	600	40	0.8	6.1	-470
11	640	40	0.8	6.1	-510
12	690	50	0.7	4.8	-560
13	720	30	0.9	8.3	-590
14	760	40	0.8	6.1	-630
15	800	40	0.8	6.1	-670
16	840	40	0.8	6.1	-710
17	880	40	0.8	6.1	-750
18	920	40	0.8	6.1	-790
19	960	40	0.8	6.1	-830
20	1000	40	0.8	6.1	-870
21					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM53

Start depth of test: 0 mm below ground level 0 m

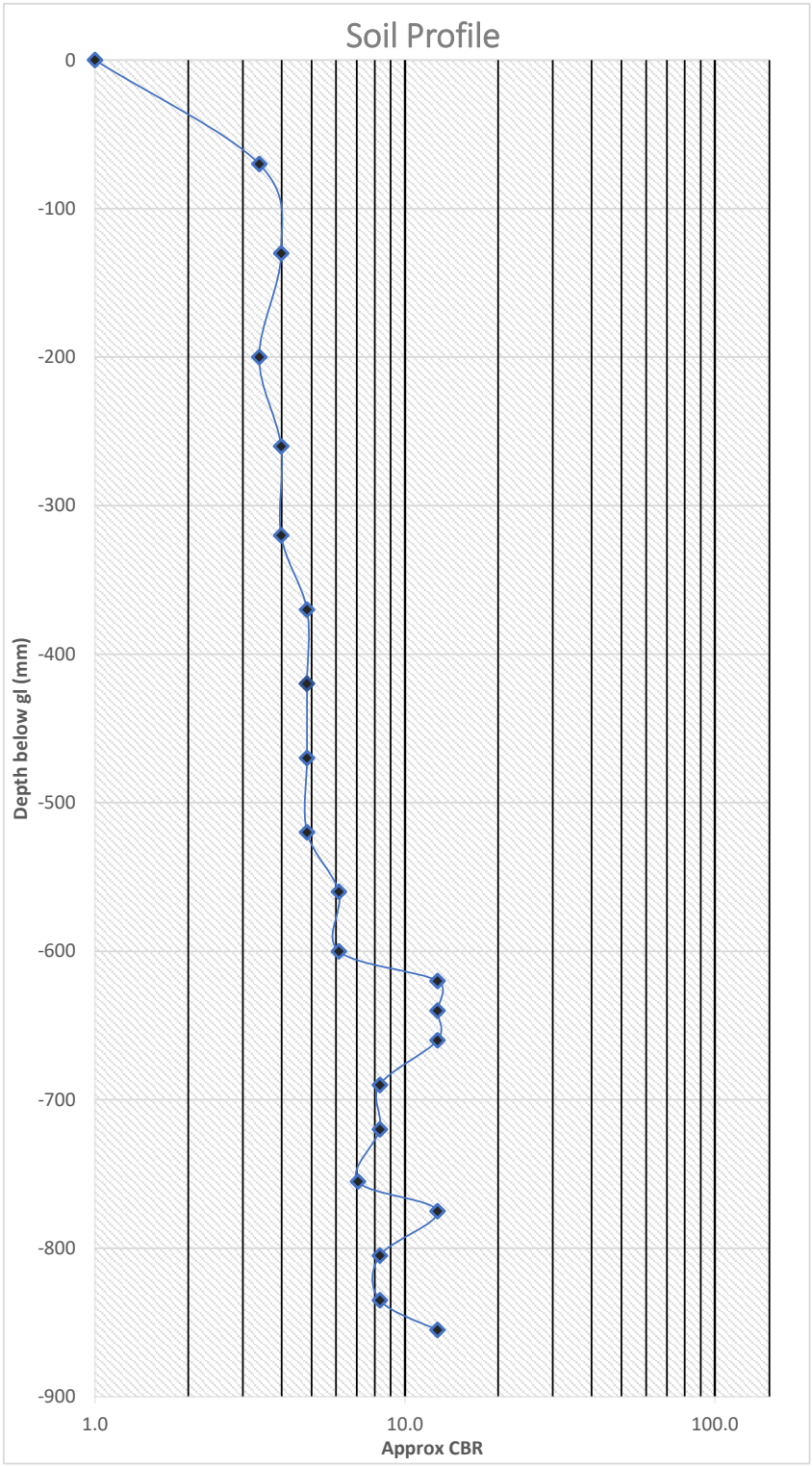
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	210	70	0.5	3.4	-70
2	270	60	0.6	4.0	-130
3	340	70	0.5	3.4	-200
4	400	60	0.6	4.0	-260
5	460	60	0.6	4.0	-320
6	510	50	0.7	4.8	-370
7	560	50	0.7	4.8	-420
8	610	50	0.7	4.8	-470
9	660	50	0.7	4.8	-520
10	700	40	0.8	6.1	-560
11	740	40	0.8	6.1	-600
12	760	20	1.1	12.7	-620
13	780	20	1.1	12.7	-640
14	800	20	1.1	12.7	-660
15	830	30	0.9	8.3	-690
16	860	30	0.9	8.3	-720
17	895	35	0.8	7.0	-755
18	915	20	1.1	12.7	-775
19	945	30	0.9	8.3	-805
20	975	30	0.9	8.3	-835
21	995	20	1.1	12.7	-855
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM54

Start depth of test: 0 mm below ground level 0 m

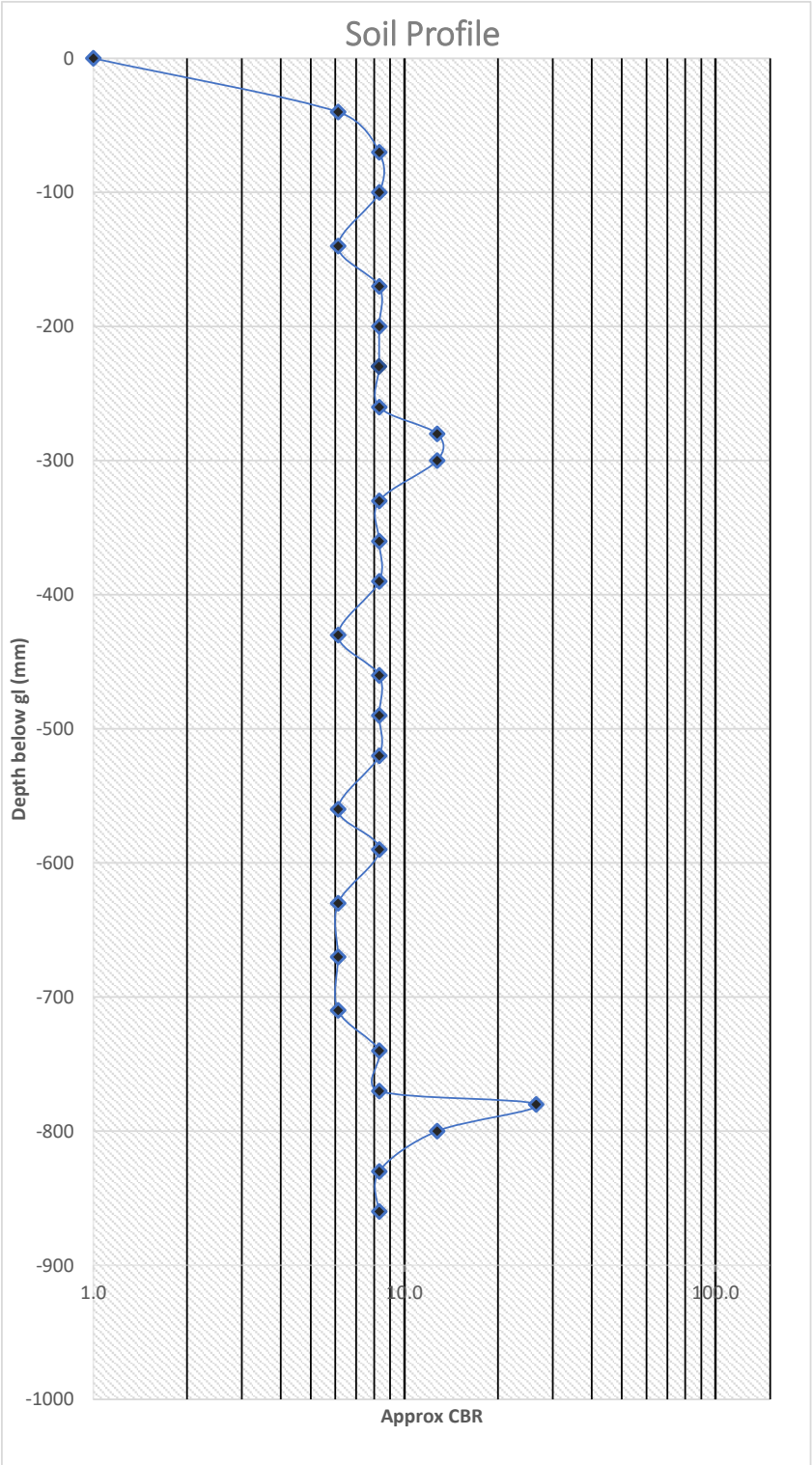
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	170	40	0.8	6.1	-40
2	200	30	0.9	8.3	-70
3	230	30	0.9	8.3	-100
4	270	40	0.8	6.1	-140
5	300	30	0.9	8.3	-170
6	330	30	0.9	8.3	-200
7	360	30	0.9	8.3	-230
8	390	30	0.9	8.3	-260
9	410	20	1.1	12.7	-280
10	430	20	1.1	12.7	-300
11	460	30	0.9	8.3	-330
12	490	30	0.9	8.3	-360
13	520	30	0.9	8.3	-390
14	560	40	0.8	6.1	-430
15	590	30	0.9	8.3	-460
16	620	30	0.9	8.3	-490
17	650	30	0.9	8.3	-520
18	690	40	0.8	6.1	-560
19	720	30	0.9	8.3	-590
20	760	40	0.8	6.1	-630
21	800	40	0.8	6.1	-670
22	840	40	0.8	6.1	-710
23	870	30	0.9	8.3	-740
24	900	30	0.9	8.3	-770
25	910	10	1.4	26.5	-780
26	930	20	1.1	12.7	-800
27	960	30	0.9	8.3	-830
28	990	30	0.9	8.3	-860
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM71

Start depth of test: 0 mm below ground level 0 m

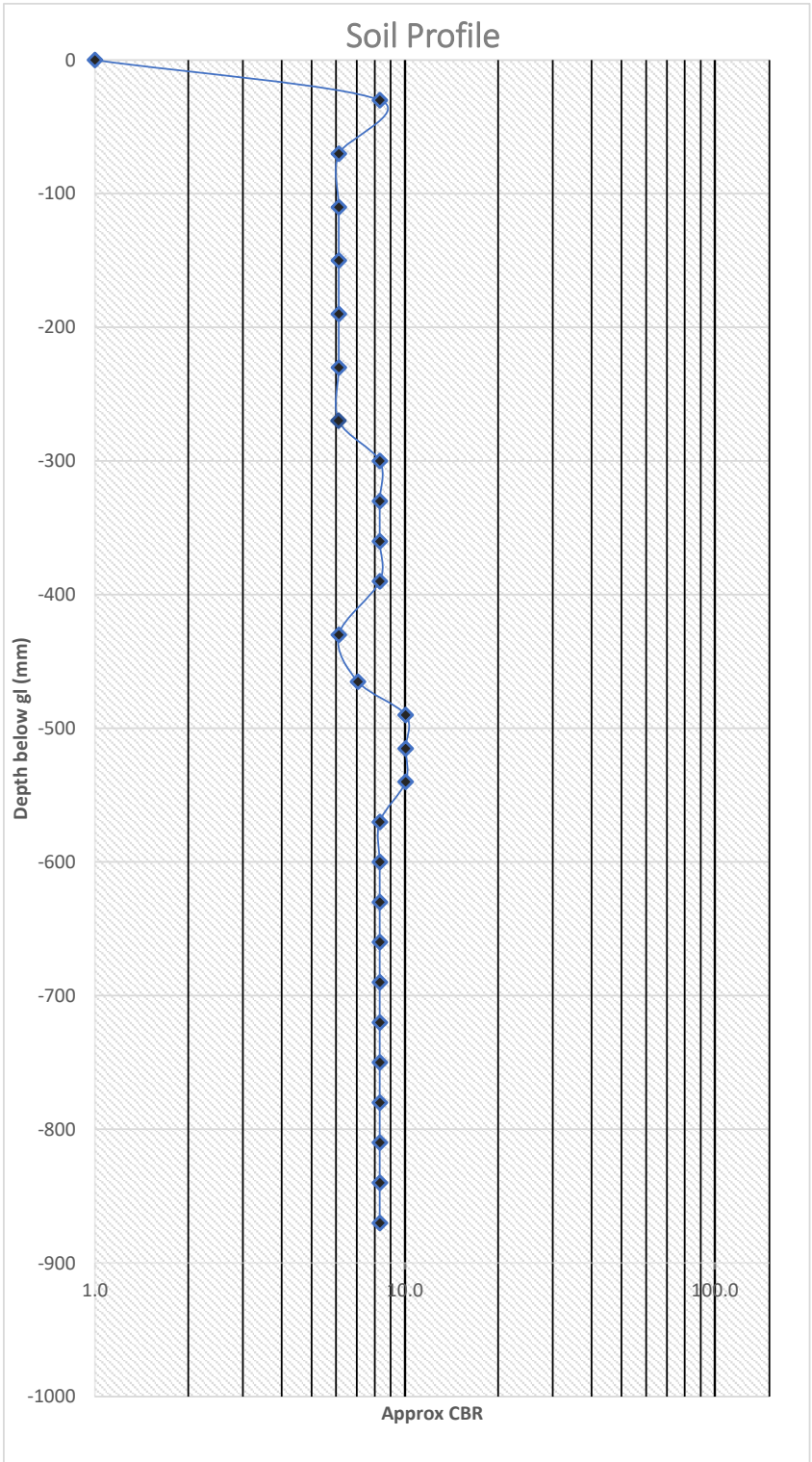
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	200	40	0.8	6.1	-70
3	240	40	0.8	6.1	-110
4	280	40	0.8	6.1	-150
5	320	40	0.8	6.1	-190
6	360	40	0.8	6.1	-230
7	400	40	0.8	6.1	-270
8	430	30	0.9	8.3	-300
9	460	30	0.9	8.3	-330
10	490	30	0.9	8.3	-360
11	520	30	0.9	8.3	-390
12	560	40	0.8	6.1	-430
13	595	35	0.8	7.0	-465
14	620	25	1.0	10.1	-490
15	645	25	1.0	10.1	-515
16	670	25	1.0	10.1	-540
17	700	30	0.9	8.3	-570
18	730	30	0.9	8.3	-600
19	760	30	0.9	8.3	-630
20	790	30	0.9	8.3	-660
21	820	30	0.9	8.3	-690
22	850	30	0.9	8.3	-720
23	880	30	0.9	8.3	-750
24	910	30	0.9	8.3	-780
25	940	30	0.9	8.3	-810
26	970	30	0.9	8.3	-840
27	1000	30	0.9	8.3	-870
28					
29					
30					



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM72

Start depth of test: 0 mm below ground level 0 m

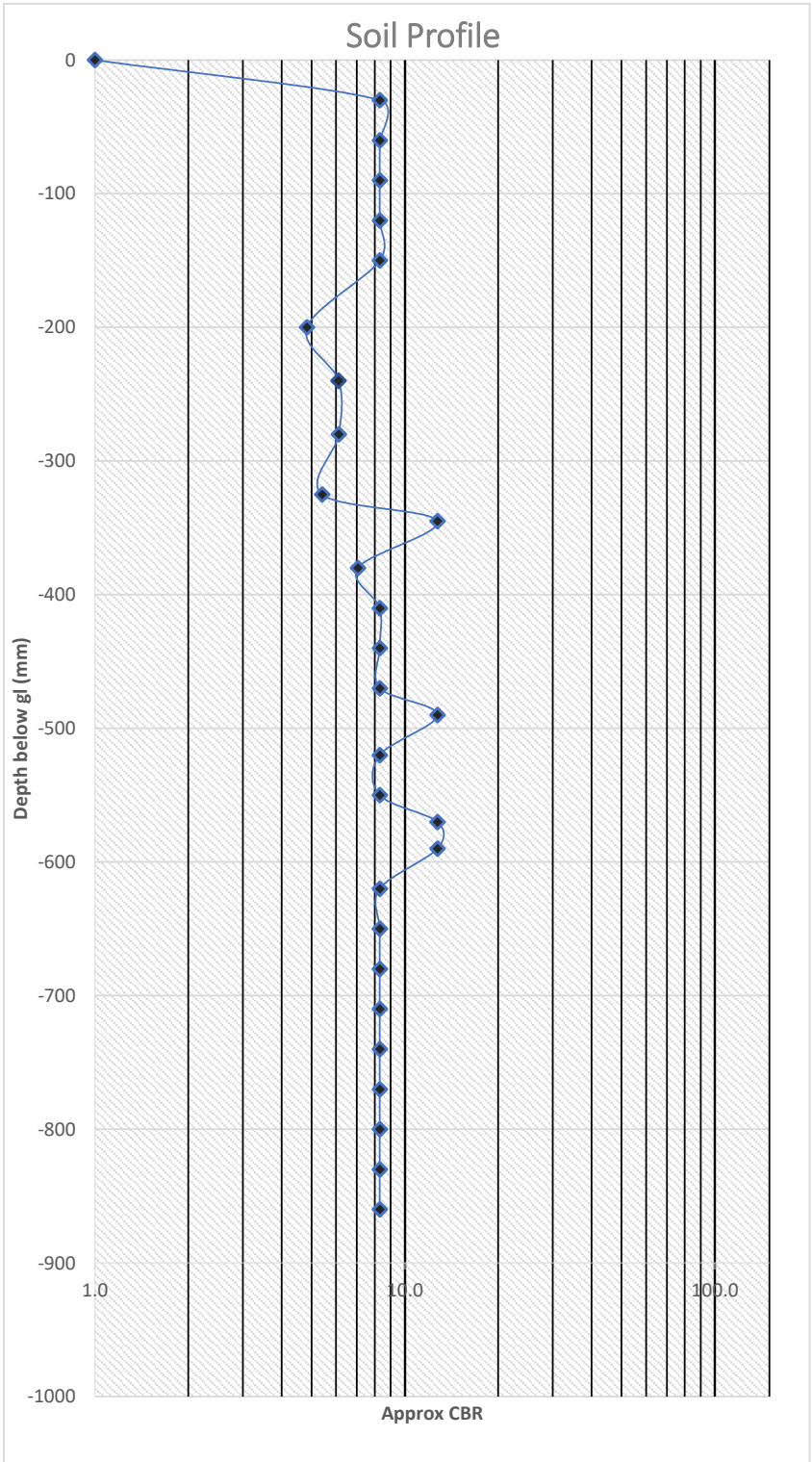
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	170	30	0.9	8.3	-30
2	200	30	0.9	8.3	-60
3	230	30	0.9	8.3	-90
4	260	30	0.9	8.3	-120
5	290	30	0.9	8.3	-150
6	340	50	0.7	4.8	-200
7	380	40	0.8	6.1	-240
8	420	40	0.8	6.1	-280
9	465	45	0.7	5.4	-325
10	485	20	1.1	12.7	-345
11	520	35	0.8	7.0	-380
12	550	30	0.9	8.3	-410
13	580	30	0.9	8.3	-440
14	610	30	0.9	8.3	-470
15	630	20	1.1	12.7	-490
16	660	30	0.9	8.3	-520
17	690	30	0.9	8.3	-550
18	710	20	1.1	12.7	-570
19	730	20	1.1	12.7	-590
20	760	30	0.9	8.3	-620
21	790	30	0.9	8.3	-650
22	820	30	0.9	8.3	-680
23	850	30	0.9	8.3	-710
24	880	30	0.9	8.3	-740
25	910	30	0.9	8.3	-770
26	940	30	0.9	8.3	-800
27	970	30	0.9	8.3	-830
28	1000	30	0.9	8.3	-860
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM73

Start depth of test: 0 mm below ground level 0 m

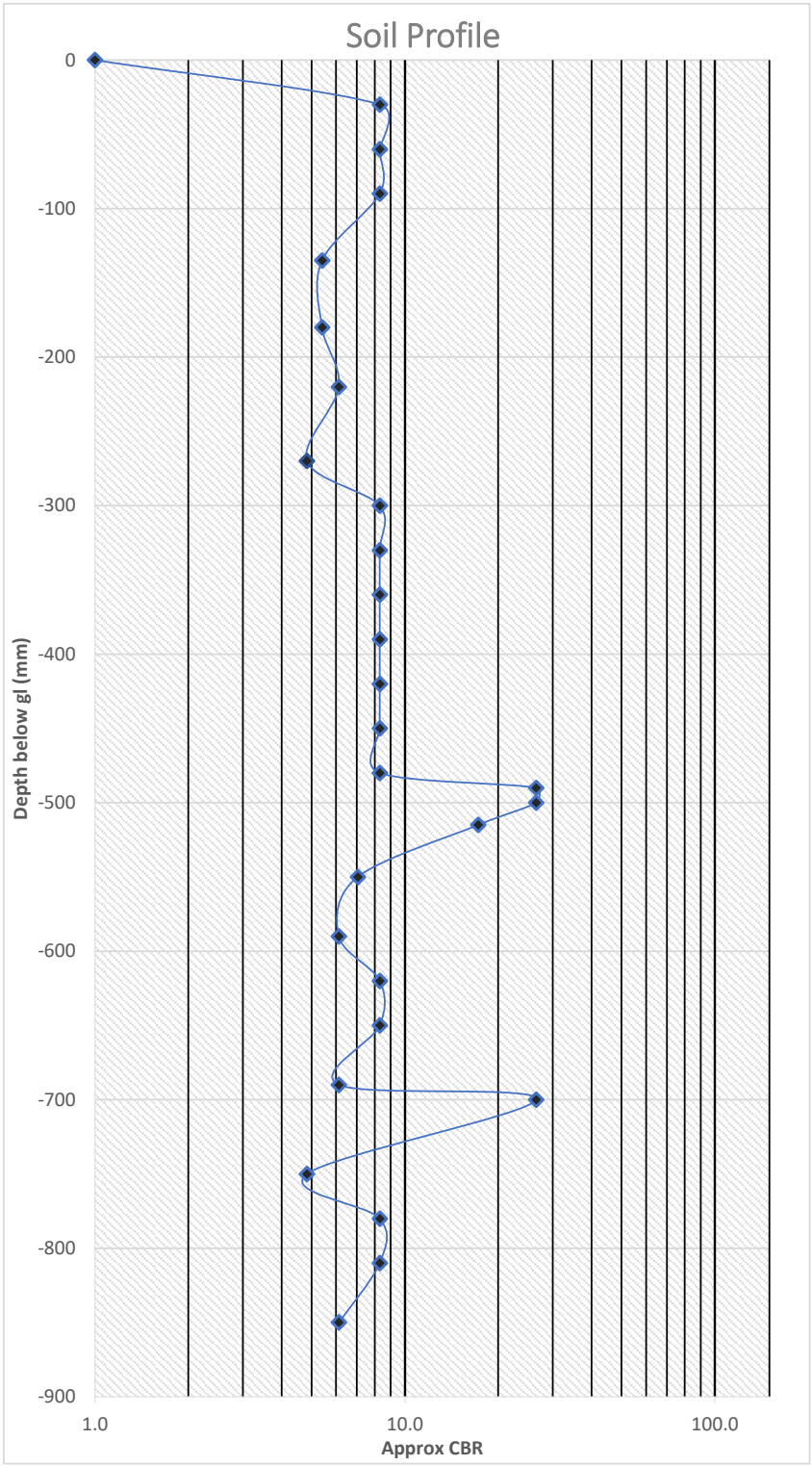
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	190	30	0.9	8.3	-60
3	220	30	0.9	8.3	-90
4	265	45	0.7	5.4	-135
5	310	45	0.7	5.4	-180
6	350	40	0.8	6.1	-220
7	400	50	0.7	4.8	-270
8	430	30	0.9	8.3	-300
9	460	30	0.9	8.3	-330
10	490	30	0.9	8.3	-360
11	520	30	0.9	8.3	-390
12	550	30	0.9	8.3	-420
13	580	30	0.9	8.3	-450
14	610	30	0.9	8.3	-480
15	620	10	1.4	26.5	-490
16	630	10	1.4	26.5	-500
17	645	15	1.2	17.3	-515
18	680	35	0.8	7.0	-550
19	720	40	0.8	6.1	-590
20	750	30	0.9	8.3	-620
21	780	30	0.9	8.3	-650
22	820	40	0.8	6.1	-690
23	830	10	1.4	26.5	-700
24	880	50	0.7	4.8	-750
25	910	30	0.9	8.3	-780
26	940	30	0.9	8.3	-810
27	980	40	0.8	6.1	-850
28					
29					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM74

Start depth of test: 0 mm below ground level 0 m

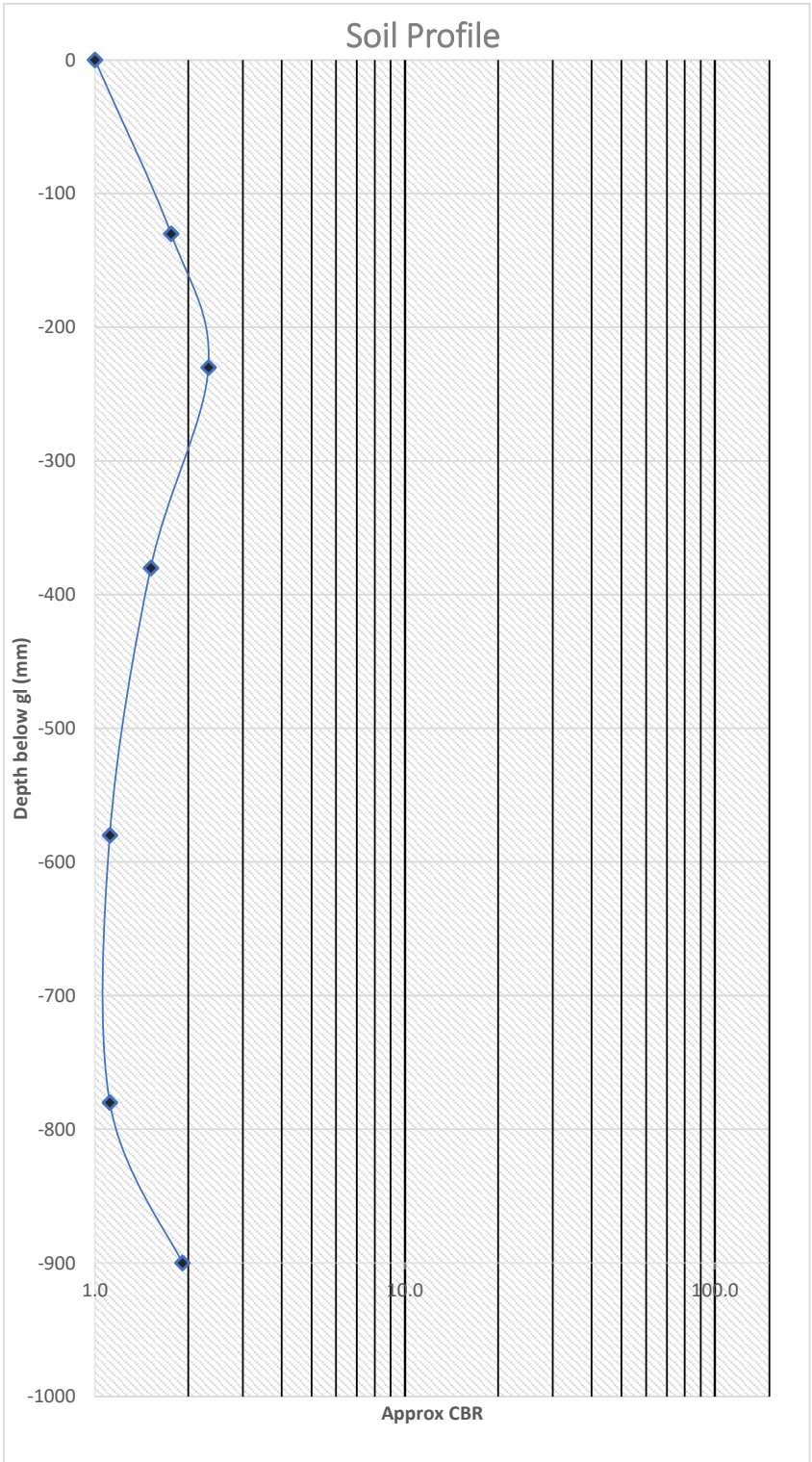
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	260	130	0.2	1.8	-130
2	360	100	0.4	2.3	-230
3	510	150	0.2	1.5	-380
4	710	200	0.0	1.1	-580
5	910	200	0.0	1.1	-780
6	1030	120	0.3	1.9	-900
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29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM75

Start depth of test: 0 mm below ground level 0 m

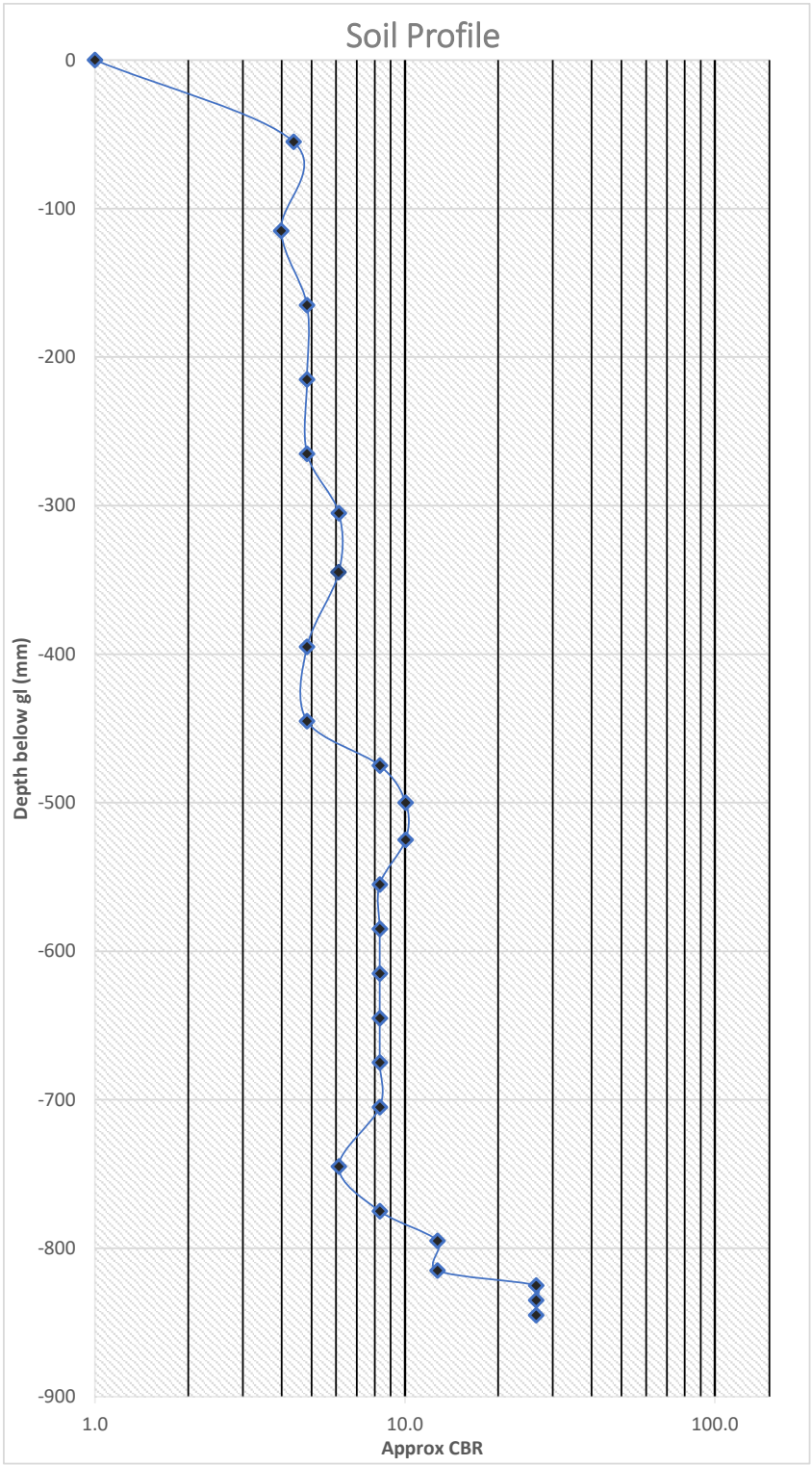
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	190	55	0.6	4.4	-55
2	250	60	0.6	4.0	-115
3	300	50	0.7	4.8	-165
4	350	50	0.7	4.8	-215
5	400	50	0.7	4.8	-265
6	440	40	0.8	6.1	-305
7	480	40	0.8	6.1	-345
8	530	50	0.7	4.8	-395
9	580	50	0.7	4.8	-445
10	610	30	0.9	8.3	-475
11	635	25	1.0	10.1	-500
12	660	25	1.0	10.1	-525
13	690	30	0.9	8.3	-555
14	720	30	0.9	8.3	-585
15	750	30	0.9	8.3	-615
16	780	30	0.9	8.3	-645
17	810	30	0.9	8.3	-675
18	840	30	0.9	8.3	-705
19	880	40	0.8	6.1	-745
20	910	30	0.9	8.3	-775
21	930	20	1.1	12.7	-795
22	950	20	1.1	12.7	-815
23	960	10	1.4	26.5	-825
24	970	10	1.4	26.5	-835
25	980	10	1.4	26.5	-845
26					
27					
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29					
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM76

Start depth of test: 0 mm below ground level 0 m

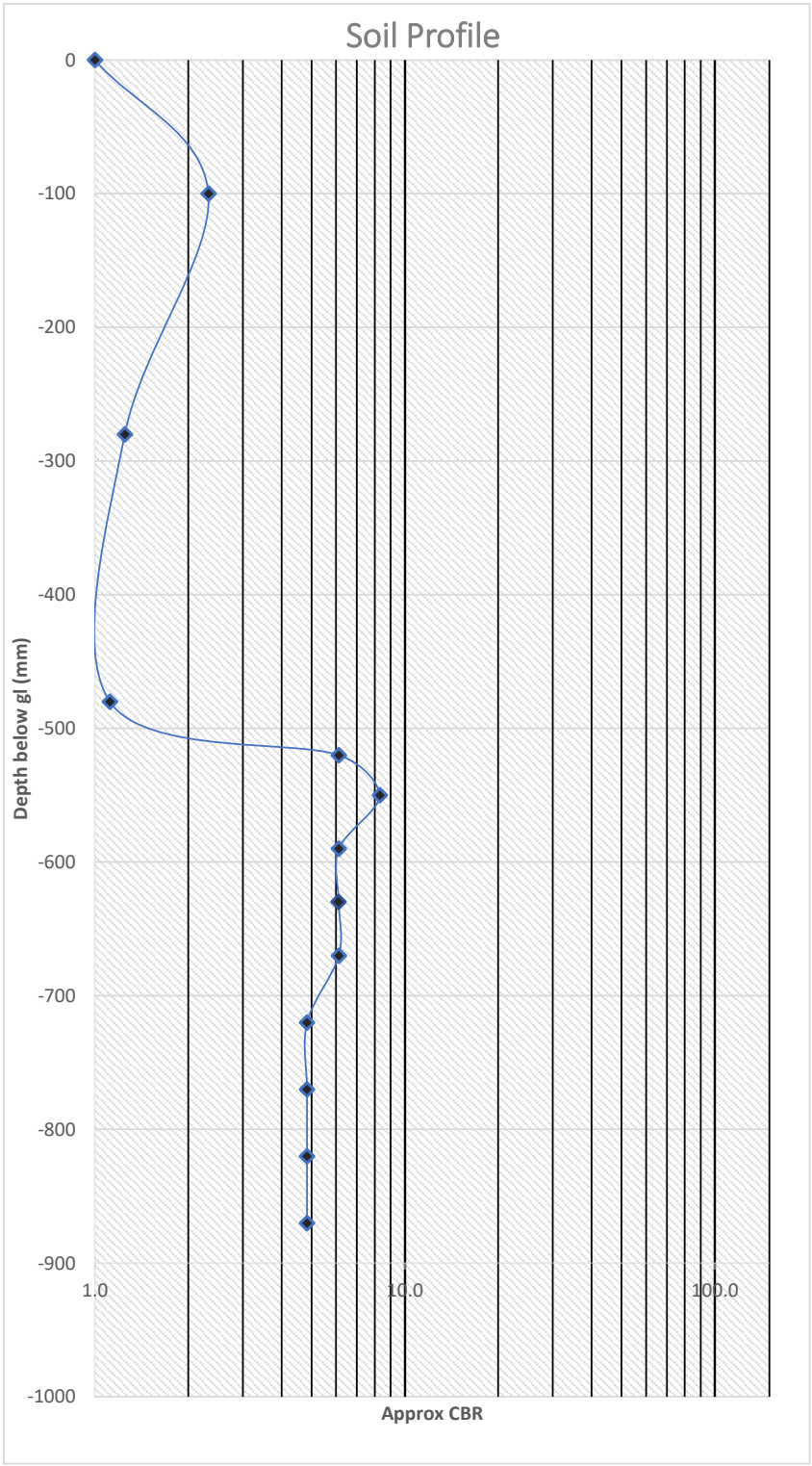
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	230	100	0.4	2.3	-100
2	410	180	0.1	1.2	-280
3	610	200	0.0	1.1	-480
4	650	40	0.8	6.1	-520
5	680	30	0.9	8.3	-550
6	720	40	0.8	6.1	-590
7	760	40	0.8	6.1	-630
8	800	40	0.8	6.1	-670
9	850	50	0.7	4.8	-720
10	900	50	0.7	4.8	-770
11	950	50	0.7	4.8	-820
12	1000	50	0.7	4.8	-870
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM77

Start depth of test: 0 mm below ground level 0 m

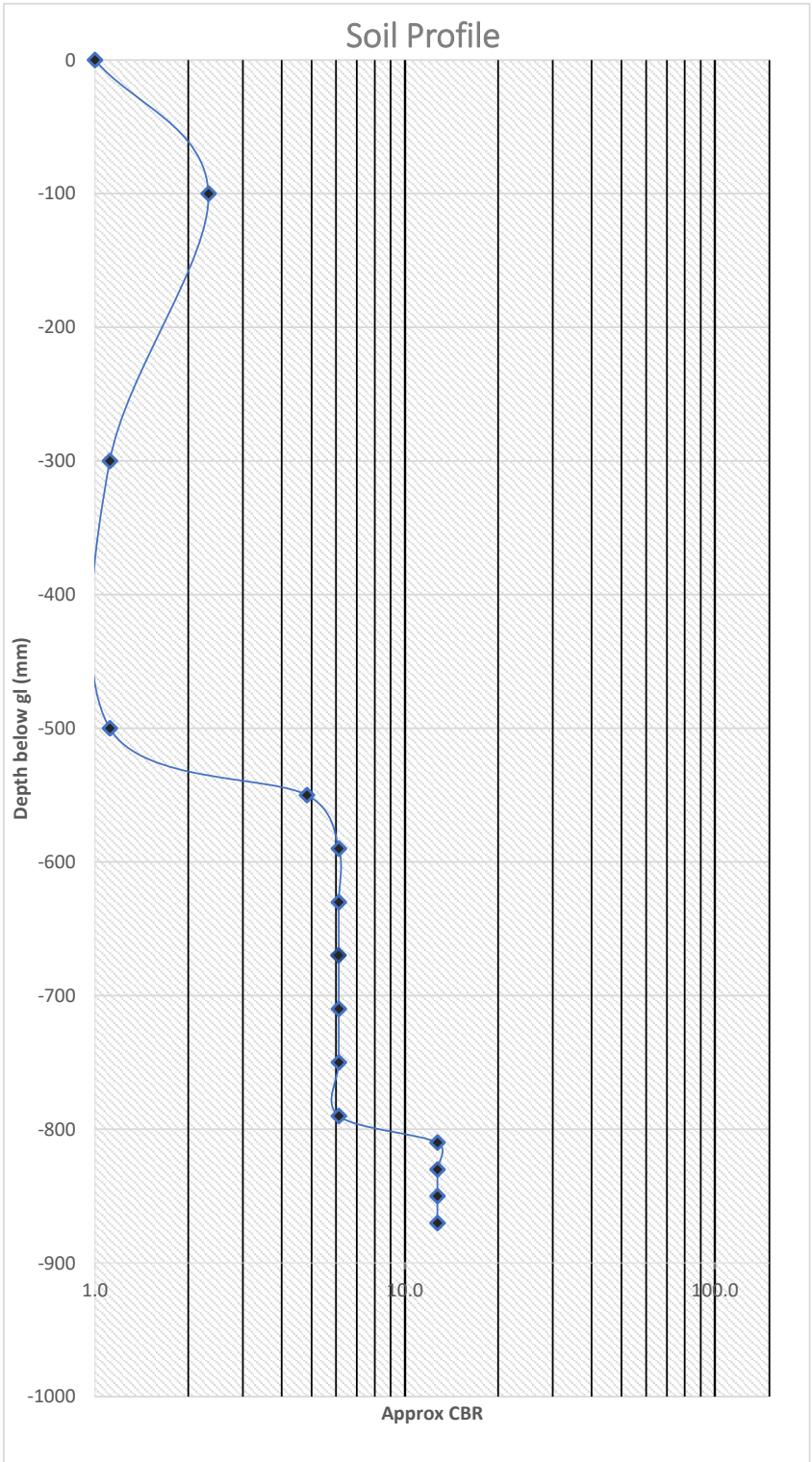
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	230	100	0.4	2.3	-100
2	430	200	0.0	1.1	-300
3	630	200	0.0	1.1	-500
4	680	50	0.7	4.8	-550
5	720	40	0.8	6.1	-590
6	760	40	0.8	6.1	-630
7	800	40	0.8	6.1	-670
8	840	40	0.8	6.1	-710
9	880	40	0.8	6.1	-750
10	920	40	0.8	6.1	-790
11	940	20	1.1	12.7	-810
12	960	20	1.1	12.7	-830
13	980	20	1.1	12.7	-850
14	1000	20	1.1	12.7	-870
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM78

Start depth of test: 0 mm below ground level 0 m

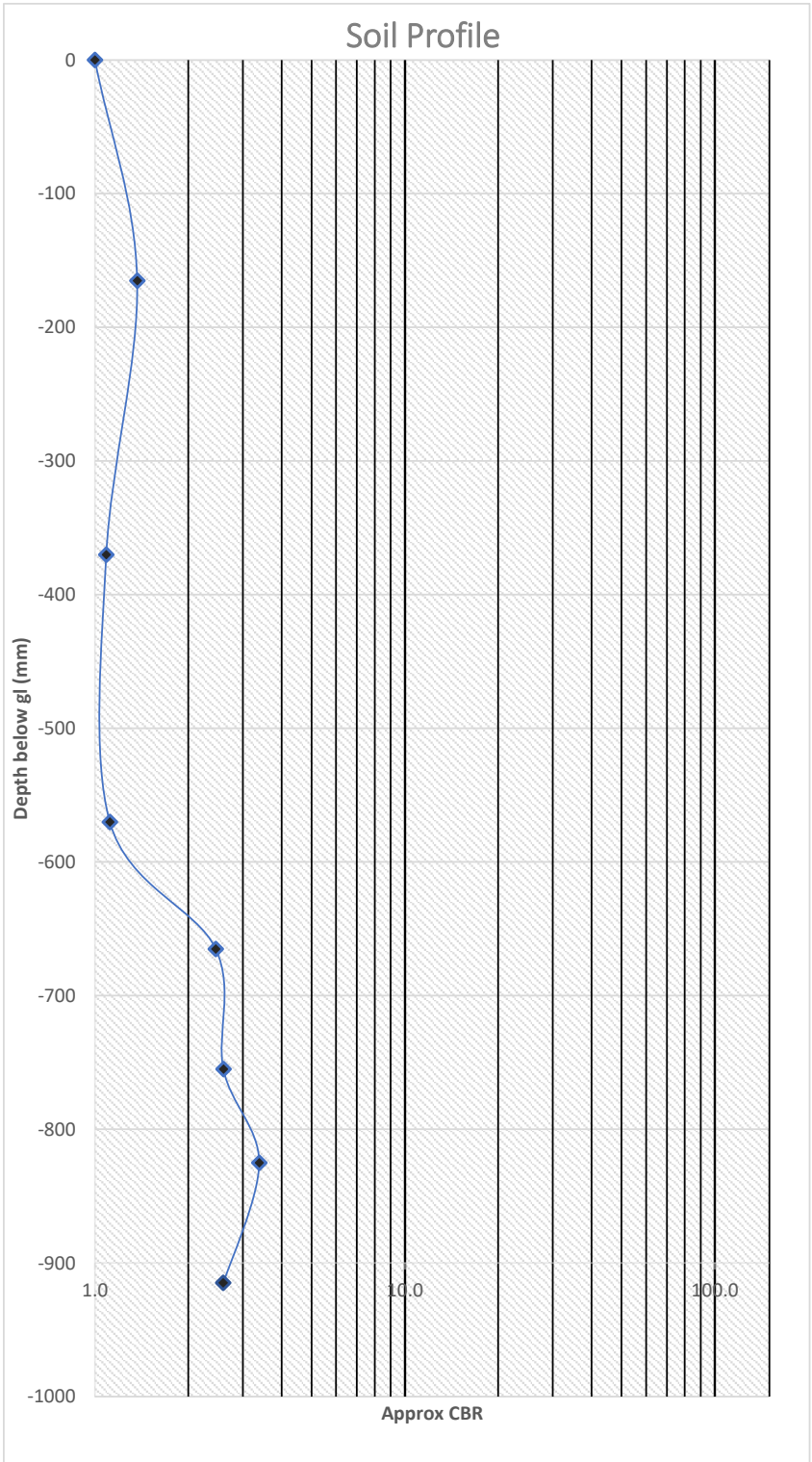
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	300	165	0.1	1.4	-165
2	505	205	0.0	1.1	-370
3	705	200	0.0	1.1	-570
4	800	95	0.4	2.5	-665
5	890	90	0.4	2.6	-755
6	960	70	0.5	3.4	-825
7	1050	90	0.4	2.6	-915
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM79

Start depth of test: 0 mm below ground level 0 m

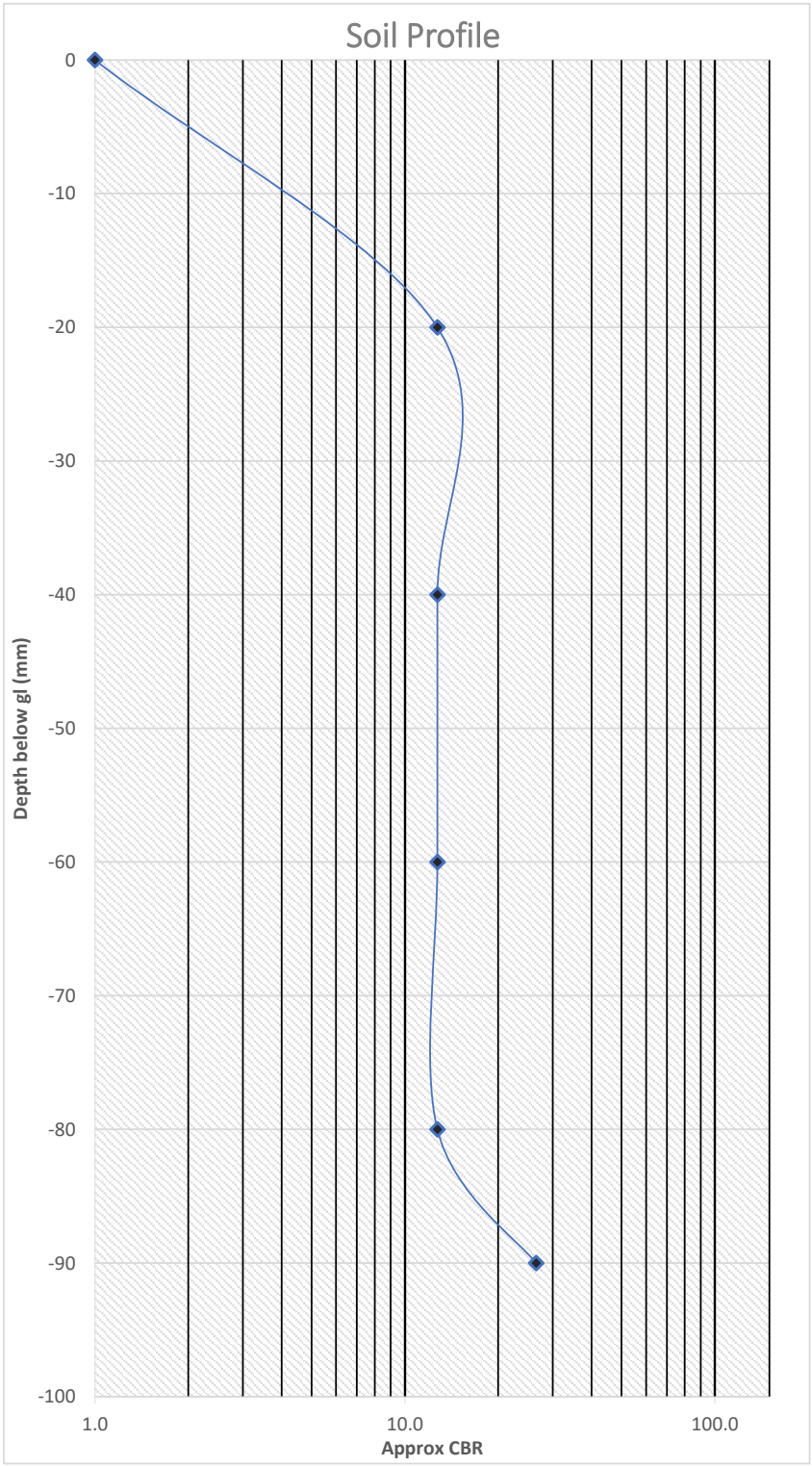
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	150	20	1.1	12.7	-20
2	170	20	1.1	12.7	-40
3	190	20	1.1	12.7	-60
4	210	20	1.1	12.7	-80
5	220	10	1.4	26.5	-90
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM80

Start depth of test: 0 mm below ground level 0 m

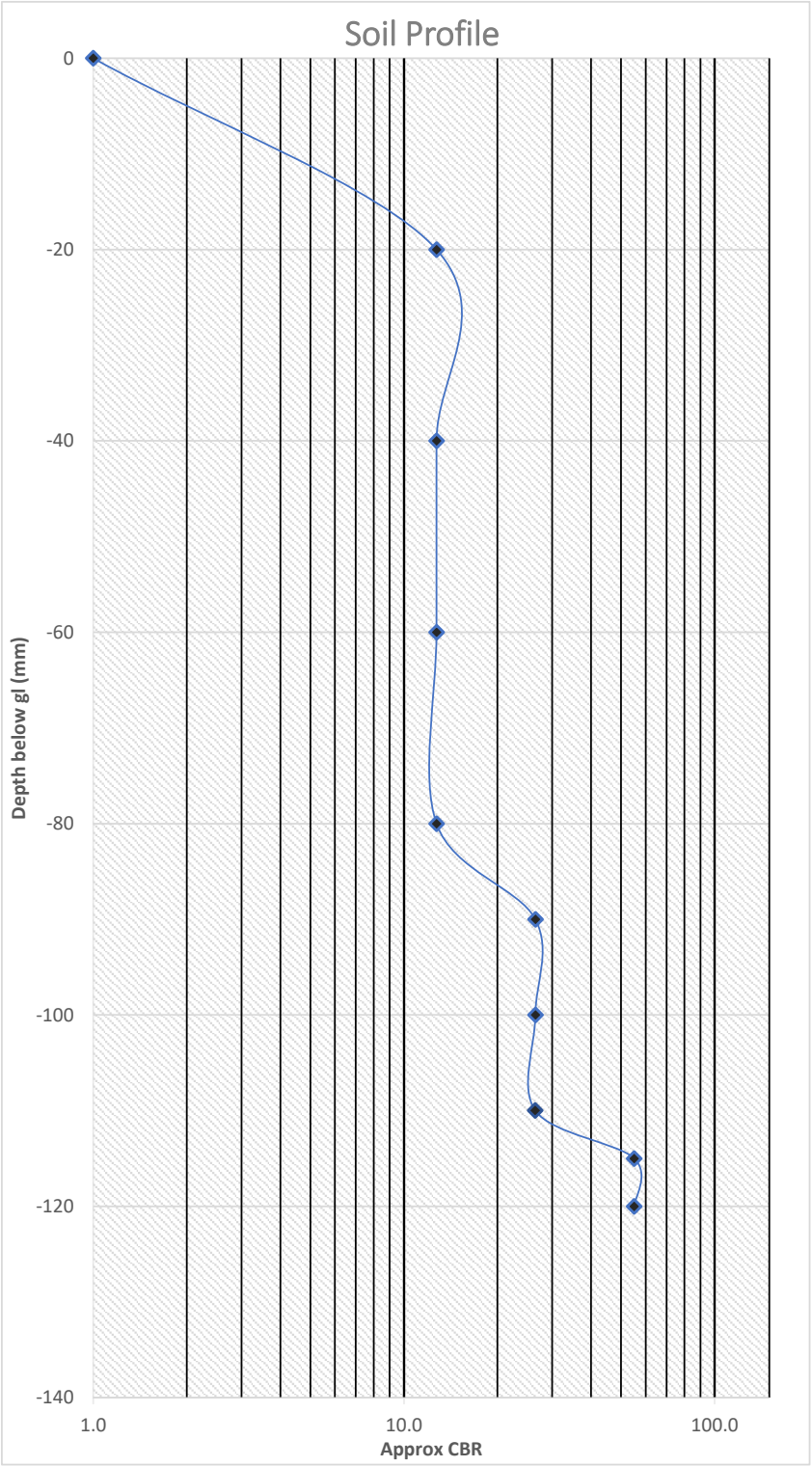
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	160	20	1.1	12.7	-20
2	180	20	1.1	12.7	-40
3	200	20	1.1	12.7	-60
4	220	20	1.1	12.7	-80
5	230	10	1.4	26.5	-90
6	240	10	1.4	26.5	-100
7	250	10	1.4	26.5	-110
8	255	5	1.7	55.1	-115
9	260	5	1.7	55.1	-120
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM81

Start depth of test: 0 mm below ground level 0 m

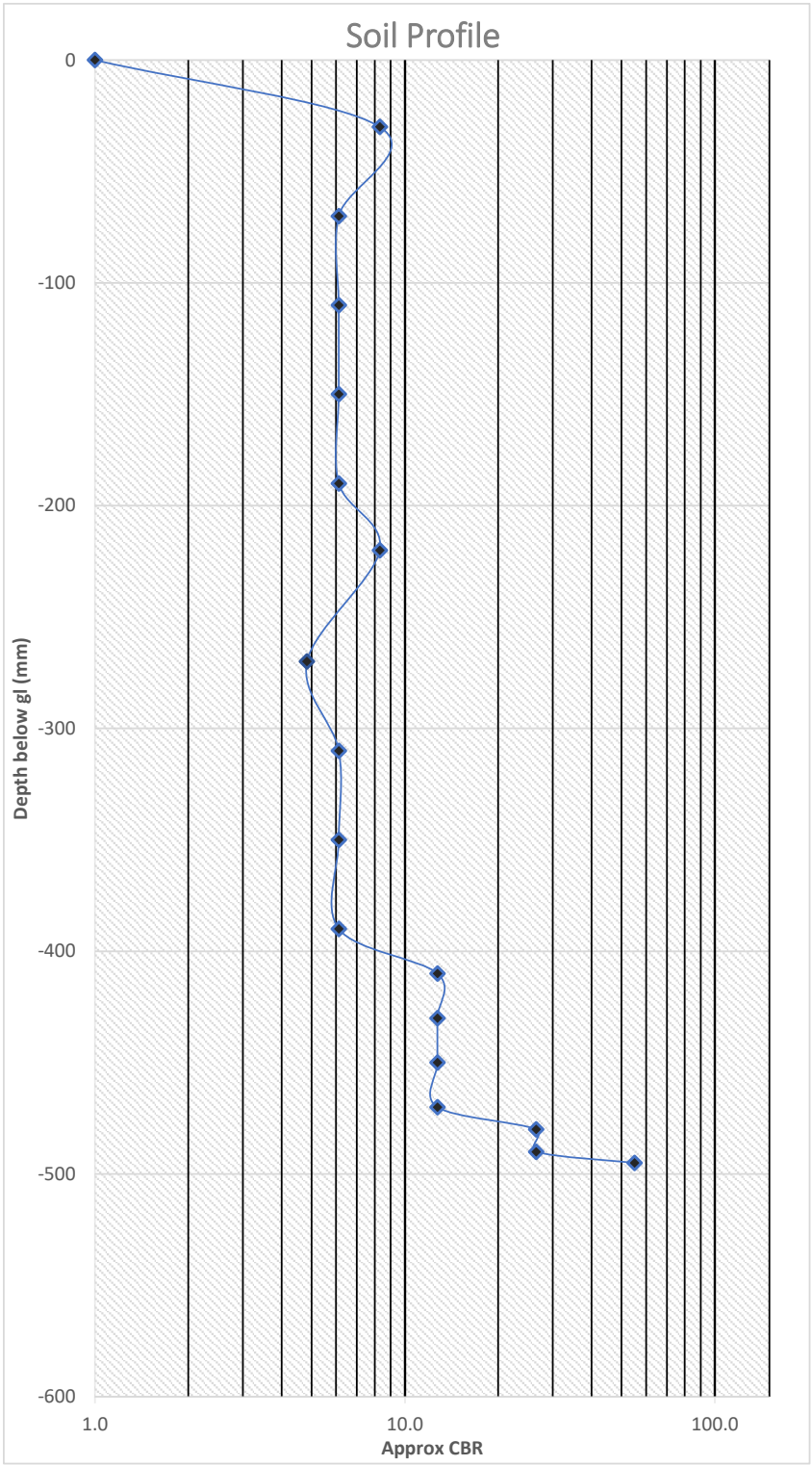
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	200	40	0.8	6.1	-70
3	240	40	0.8	6.1	-110
4	280	40	0.8	6.1	-150
5	320	40	0.8	6.1	-190
6	350	30	0.9	8.3	-220
7	400	50	0.7	4.8	-270
8	440	40	0.8	6.1	-310
9	480	40	0.8	6.1	-350
10	520	40	0.8	6.1	-390
11	540	20	1.1	12.7	-410
12	560	20	1.1	12.7	-430
13	580	20	1.1	12.7	-450
14	600	20	1.1	12.7	-470
15	610	10	1.4	26.5	-480
16	620	10	1.4	26.5	-490
17	625	5	1.7	55.1	-495
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM82

Start depth of test: 0 mm below ground level 0 m

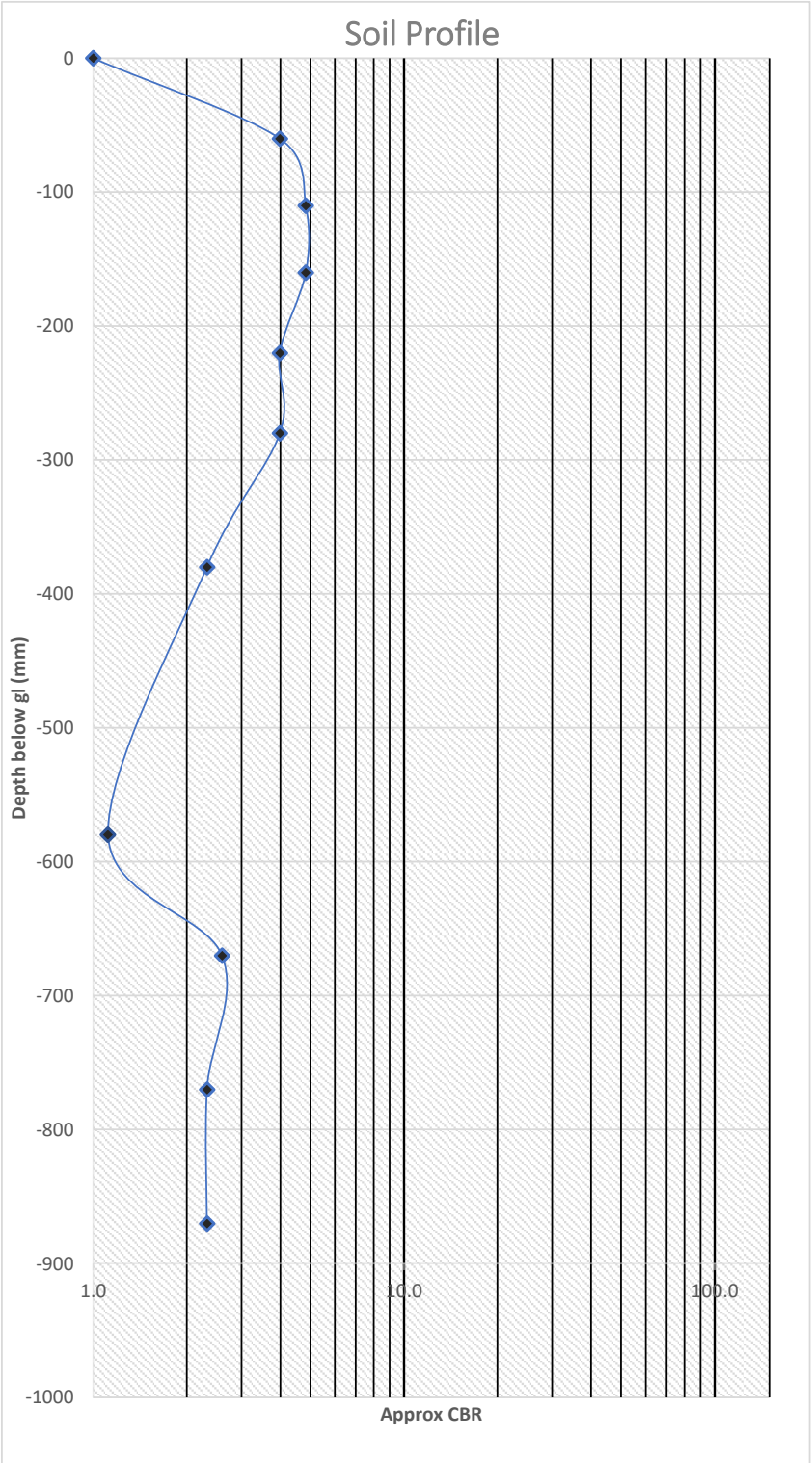
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	190	60	0.6	4.0	-60
2	240	50	0.7	4.8	-110
3	290	50	0.7	4.8	-160
4	350	60	0.6	4.0	-220
5	410	60	0.6	4.0	-280
6	510	100	0.4	2.3	-380
7	710	200	0.0	1.1	-580
8	800	90	0.4	2.6	-670
9	900	100	0.4	2.3	-770
10	1000	100	0.4	2.3	-870
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM83

Start depth of test: 0 mm below ground level 0 m

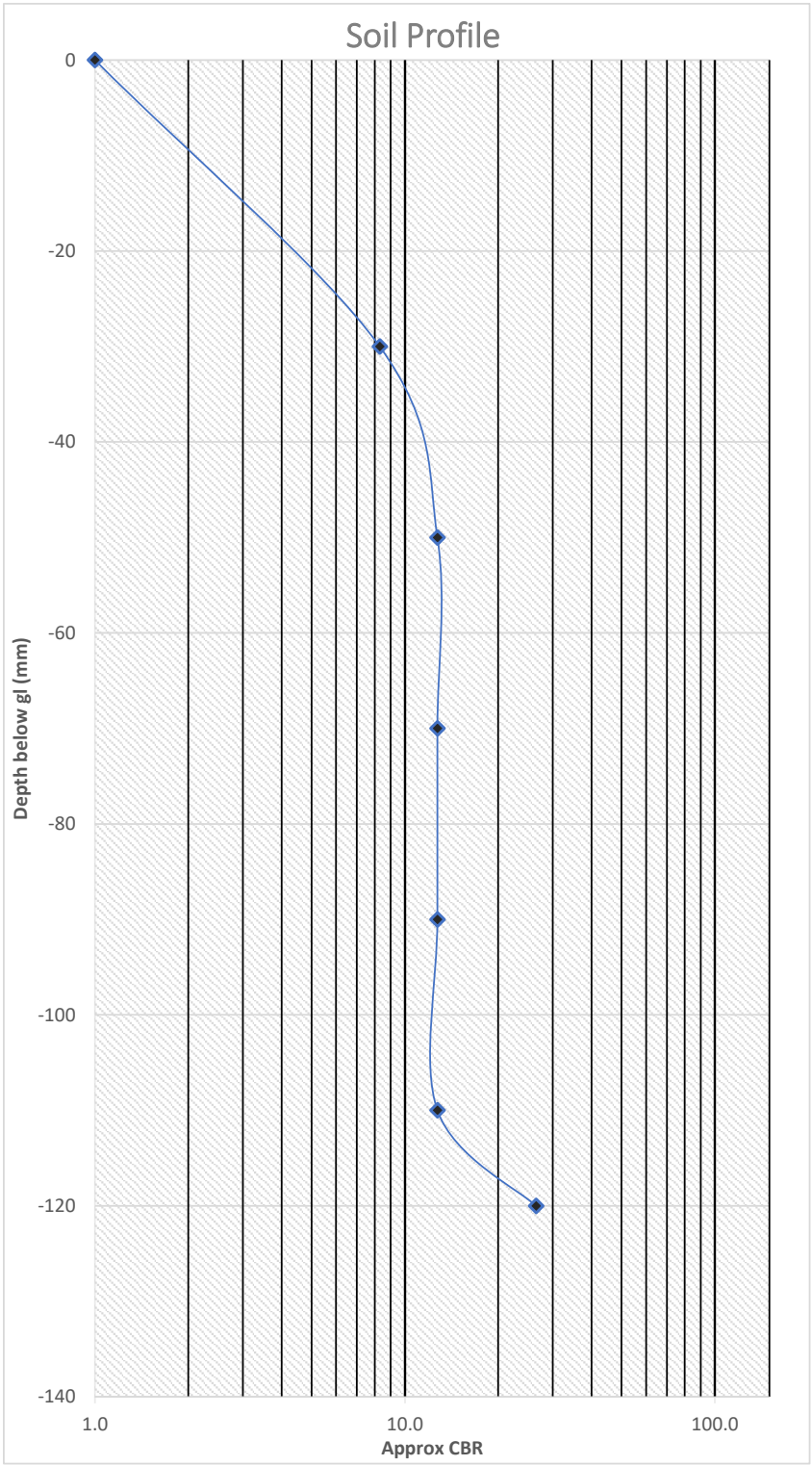
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	180	20	1.1	12.7	-50
3	200	20	1.1	12.7	-70
4	220	20	1.1	12.7	-90
5	240	20	1.1	12.7	-110
6	250	10	1.4	26.5	-120
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM84

Start depth of test: 0 mm below ground level 0 m

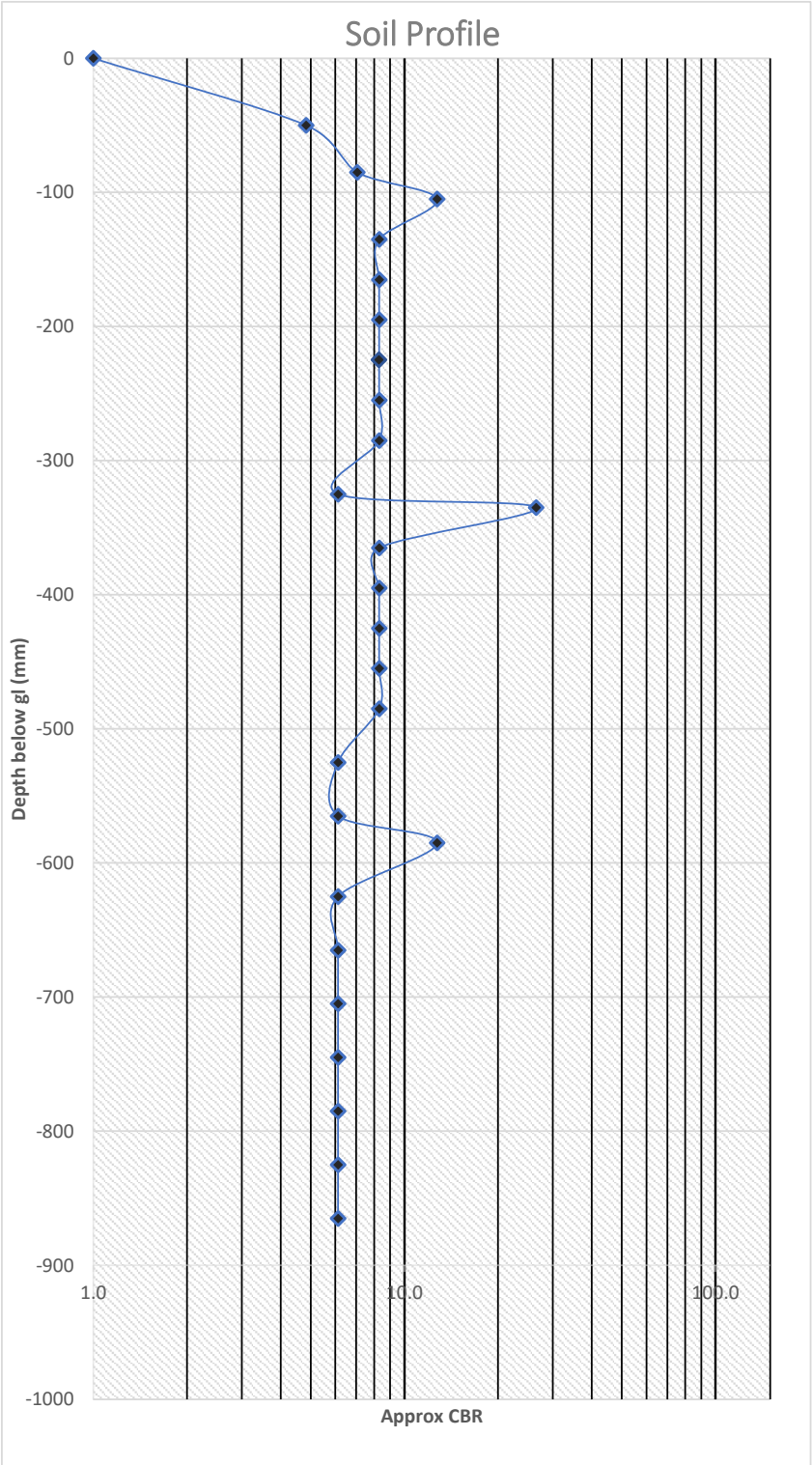
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	185	50	0.7	4.8	-50
2	220	35	0.8	7.0	-85
3	240	20	1.1	12.7	-105
4	270	30	0.9	8.3	-135
5	300	30	0.9	8.3	-165
6	330	30	0.9	8.3	-195
7	360	30	0.9	8.3	-225
8	390	30	0.9	8.3	-255
9	420	30	0.9	8.3	-285
10	460	40	0.8	6.1	-325
11	470	10	1.4	26.5	-335
12	500	30	0.9	8.3	-365
13	530	30	0.9	8.3	-395
14	560	30	0.9	8.3	-425
15	590	30	0.9	8.3	-455
16	620	30	0.9	8.3	-485
17	660	40	0.8	6.1	-525
18	700	40	0.8	6.1	-565
19	720	20	1.1	12.7	-585
20	760	40	0.8	6.1	-625
21	800	40	0.8	6.1	-665
22	840	40	0.8	6.1	-705
23	880	40	0.8	6.1	-745
24	920	40	0.8	6.1	-785
25	960	40	0.8	6.1	-825
26	1000	40	0.8	6.1	-865
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM85

Start depth of test: 0 mm below ground level 0 m

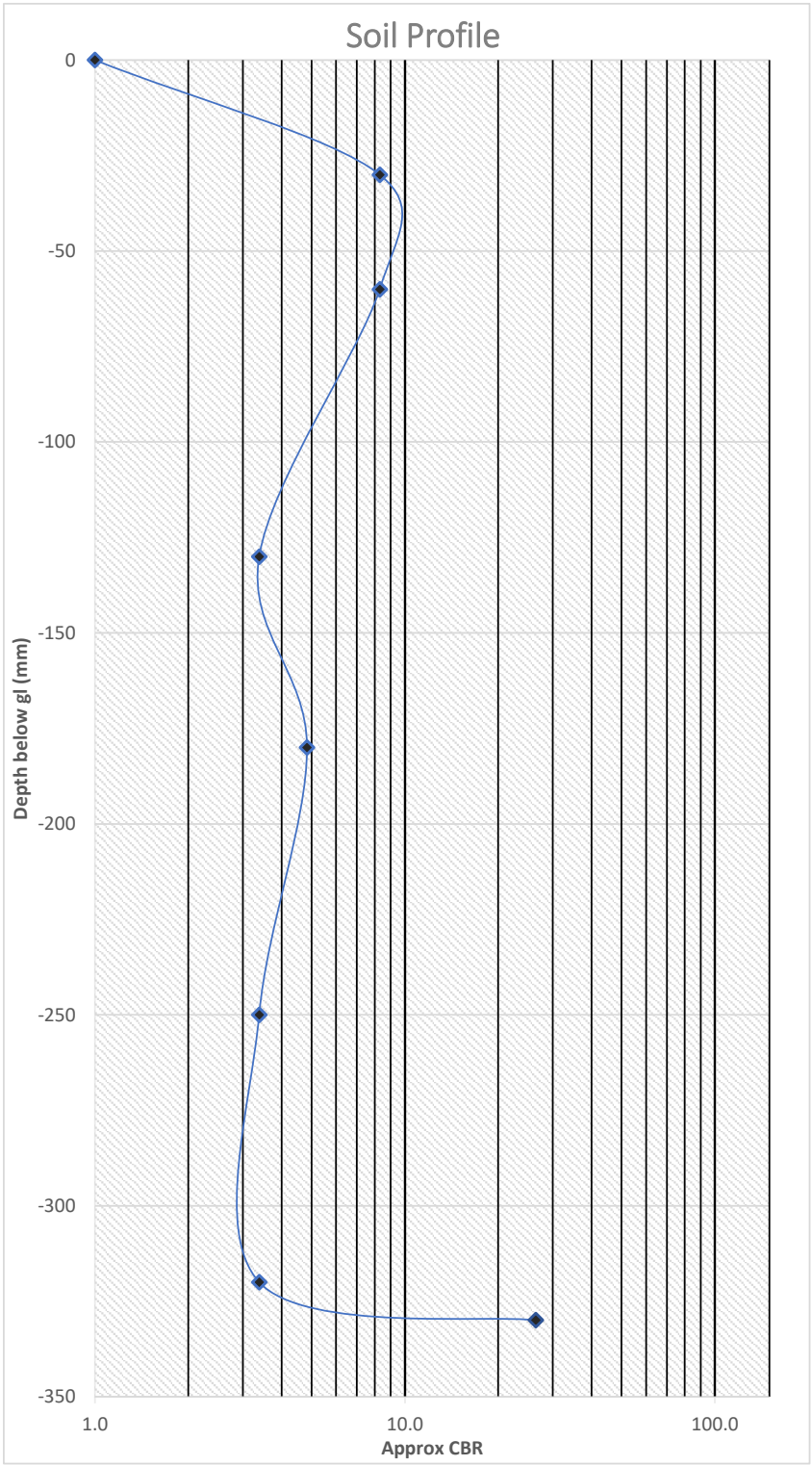
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	190	30	0.9	8.3	-60
3	260	70	0.5	3.4	-130
4	310	50	0.7	4.8	-180
5	380	70	0.5	3.4	-250
6	450	70	0.5	3.4	-320
7	460	10	1.4	26.5	-330
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM86

Start depth of test: 0 mm below ground level 0 m

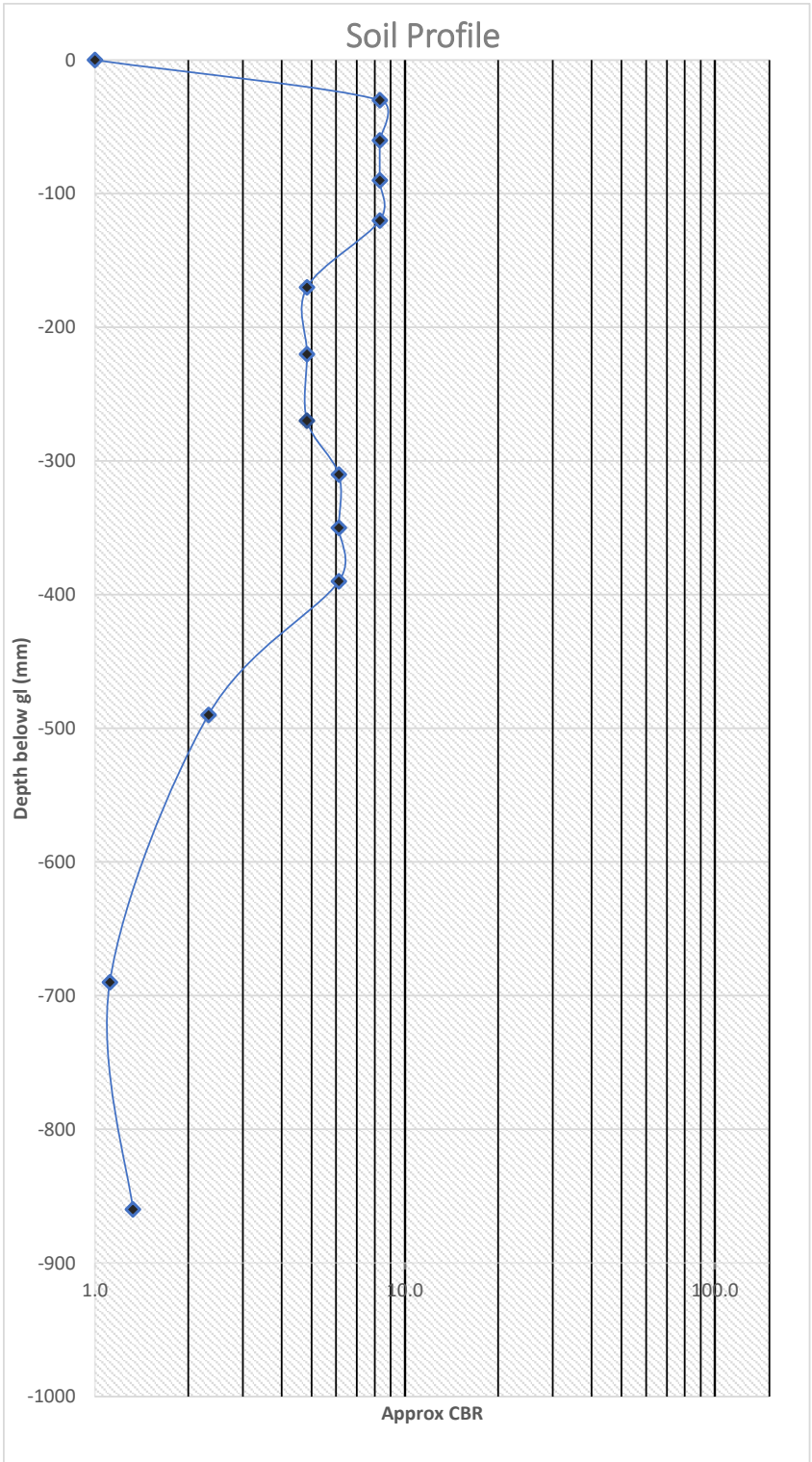
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	160	30	0.9	8.3	-30
2	190	30	0.9	8.3	-60
3	220	30	0.9	8.3	-90
4	250	30	0.9	8.3	-120
5	300	50	0.7	4.8	-170
6	350	50	0.7	4.8	-220
7	400	50	0.7	4.8	-270
8	440	40	0.8	6.1	-310
9	480	40	0.8	6.1	-350
10	520	40	0.8	6.1	-390
11	620	100	0.4	2.3	-490
12	820	200	0.0	1.1	-690
13	990	170	0.1	1.3	-860
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPM92

Start depth of test: 0 mm below ground level 0 m

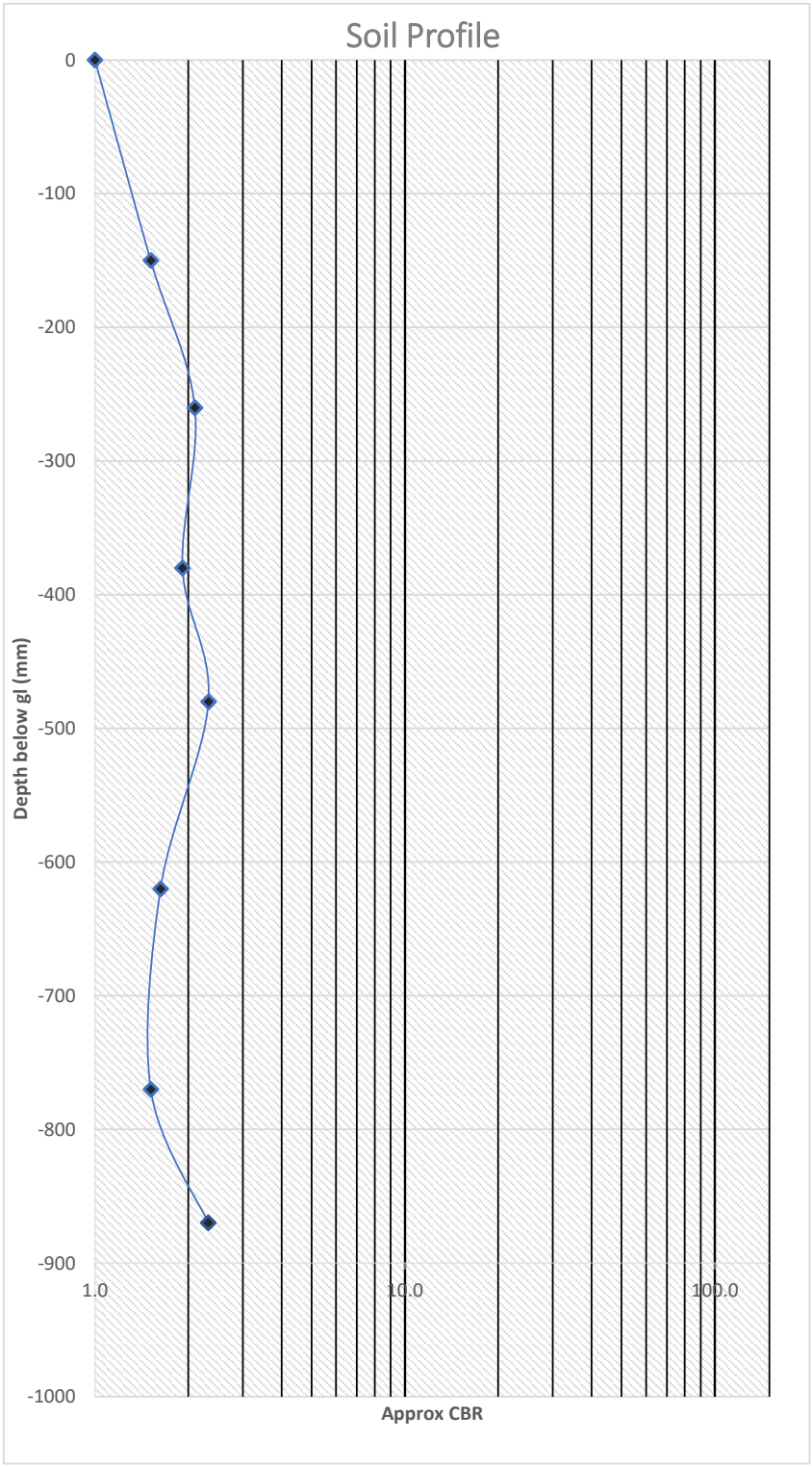
Tested By / on DOR 26/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	280	150	0.2	1.5	-150
2	390	110	0.3	2.1	-260
3	510	120	0.3	1.9	-380
4	610	100	0.4	2.3	-480
5	750	140	0.2	1.6	-620
6	900	150	0.2	1.5	-770
7	1000	100	0.4	2.3	-870
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPR01

Start depth of test: 0 mm below ground level 0 m

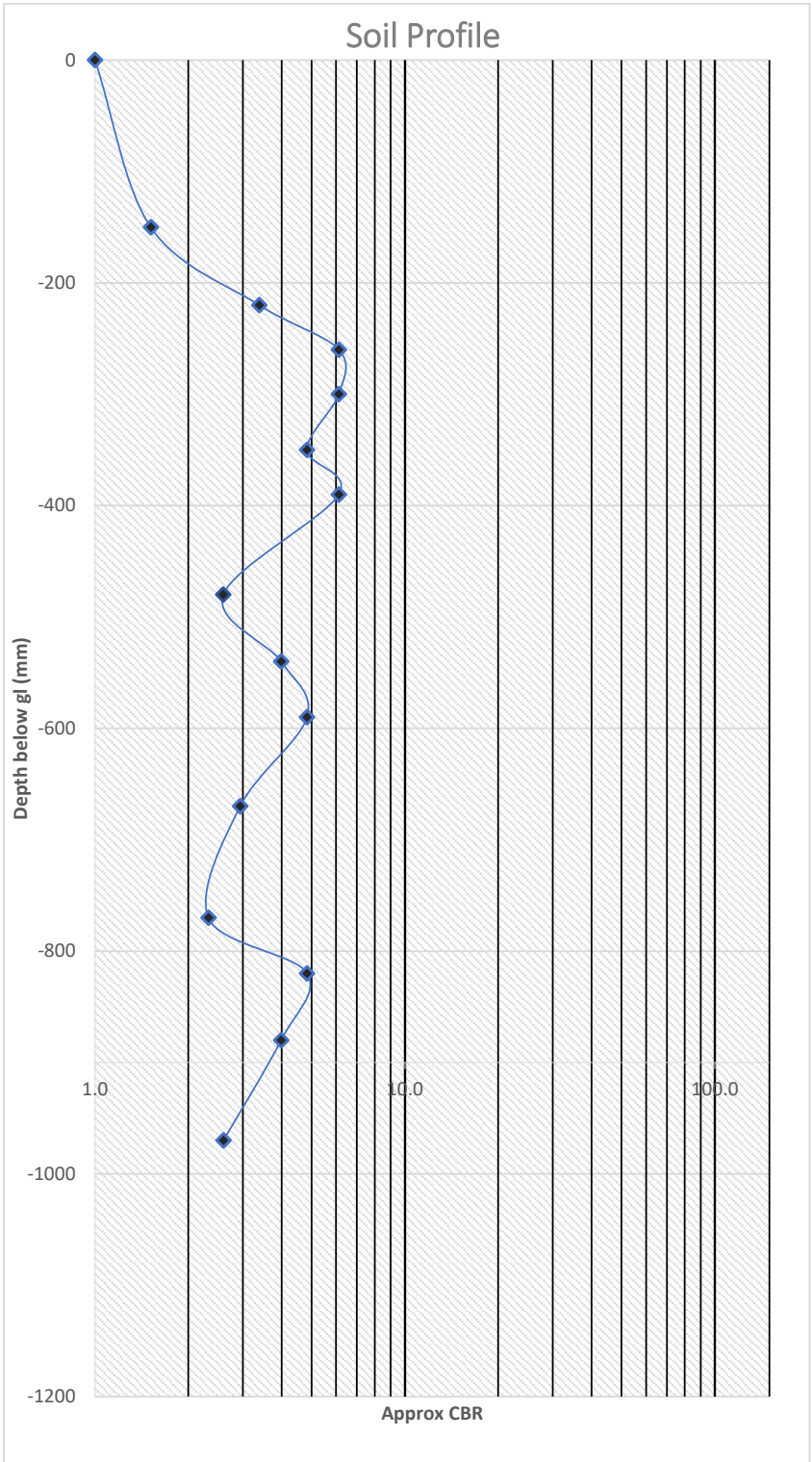
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	280	150	0.2	1.5	-150
2	350	70	0.5	3.4	-220
3	390	40	0.8	6.1	-260
4	430	40	0.8	6.1	-300
5	480	50	0.7	4.8	-350
6	520	40	0.8	6.1	-390
7	610	90	0.4	2.6	-480
8	670	60	0.6	4.0	-540
9	720	50	0.7	4.8	-590
10	800	80	0.5	2.9	-670
11	900	100	0.4	2.3	-770
12	950	50	0.7	4.8	-820
13	1010	60	0.6	4.0	-880
14	1100	90	0.4	2.6	-970
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPR02

Start depth of test: 0 mm below ground level 0 m

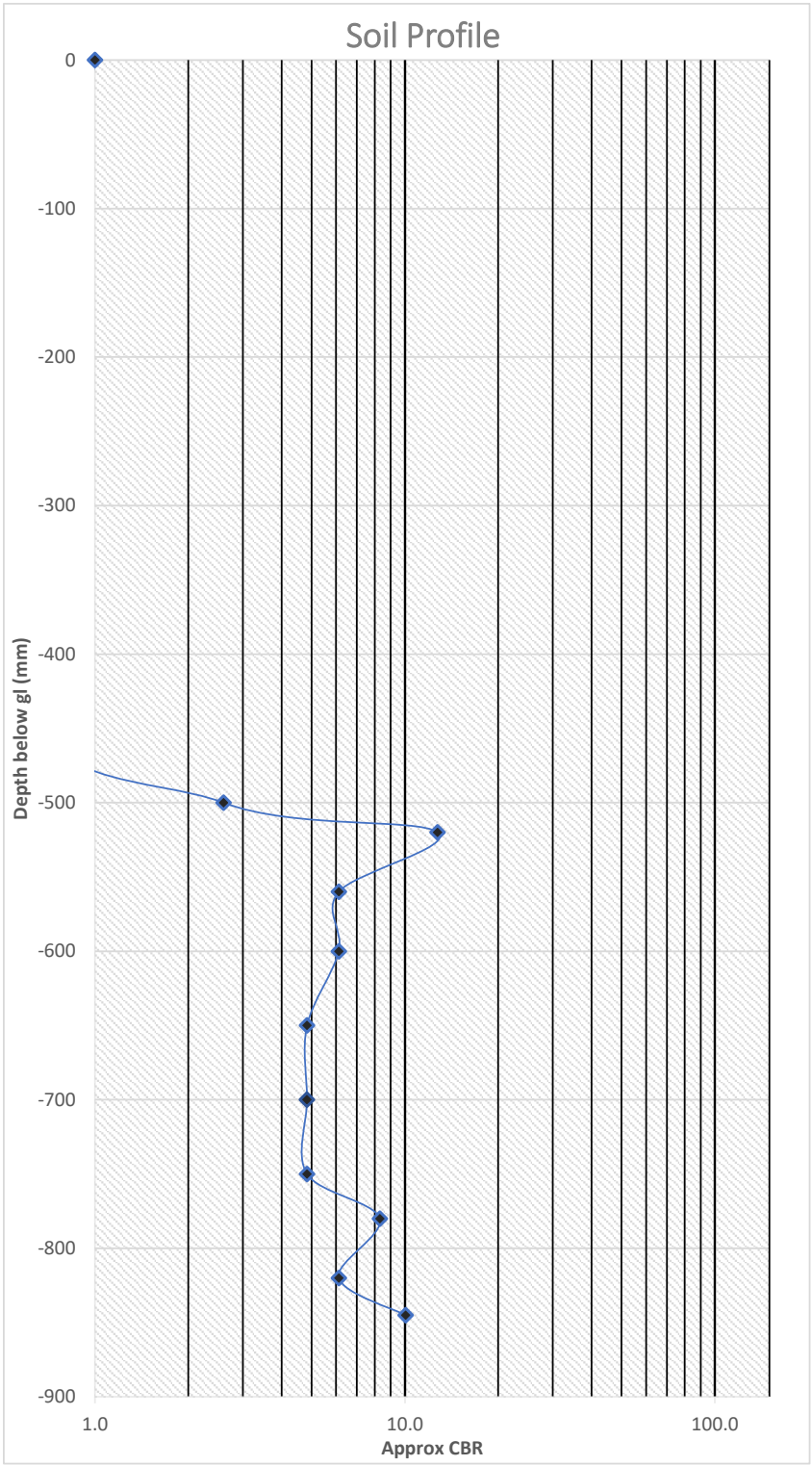
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	170	0	0.0	1.0	0
1	580	410	-0.3	0.5	-410
2	670	90	0.4	2.6	-500
3	690	20	1.1	12.7	-520
4	730	40	0.8	6.1	-560
5	770	40	0.8	6.1	-600
6	820	50	0.7	4.8	-650
7	870	50	0.7	4.8	-700
8	920	50	0.7	4.8	-750
9	950	30	0.9	8.3	-780
10	990	40	0.8	6.1	-820
11	1015	25	1.0	10.1	-845
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPR03

Start depth of test: 0 mm below ground level 0 m

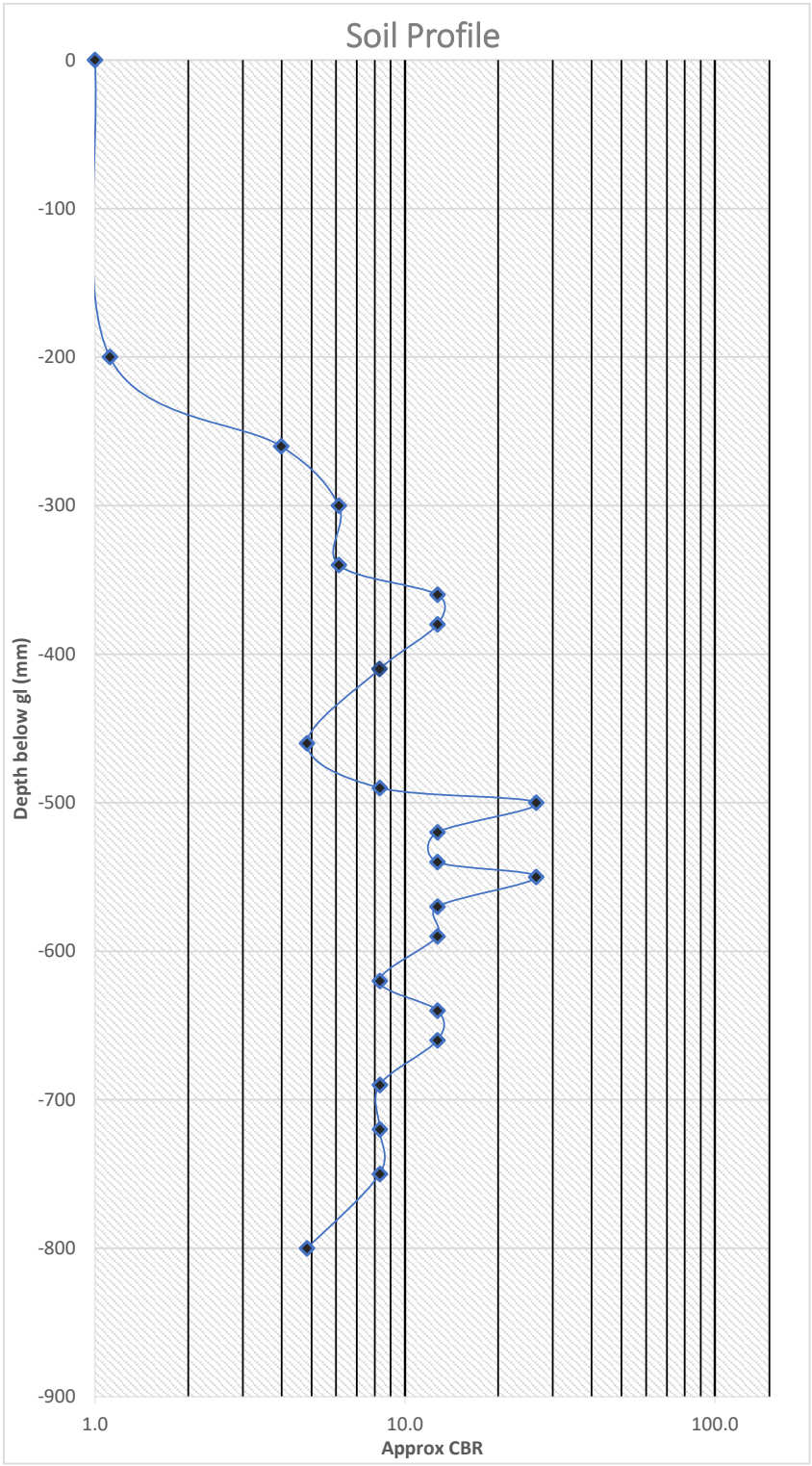
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	160	0	0.0	1.0	0
1	360	200	0.0	1.1	-200
2	420	60	0.6	4.0	-260
3	460	40	0.8	6.1	-300
4	500	40	0.8	6.1	-340
5	520	20	1.1	12.7	-360
6	540	20	1.1	12.7	-380
7	570	30	0.9	8.3	-410
8	620	50	0.7	4.8	-460
9	650	30	0.9	8.3	-490
10	660	10	1.4	26.5	-500
11	680	20	1.1	12.7	-520
12	700	20	1.1	12.7	-540
13	710	10	1.4	26.5	-550
14	730	20	1.1	12.7	-570
15	750	20	1.1	12.7	-590
16	780	30	0.9	8.3	-620
17	800	20	1.1	12.7	-640
18	820	20	1.1	12.7	-660
19	850	30	0.9	8.3	-690
20	880	30	0.9	8.3	-720
21	910	30	0.9	8.3	-750
22	960	50	0.7	4.8	-800
23					
24					
25					
26					
27					
28					
29					
30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPR04

Start depth of test: 0 mm below ground level 0 m

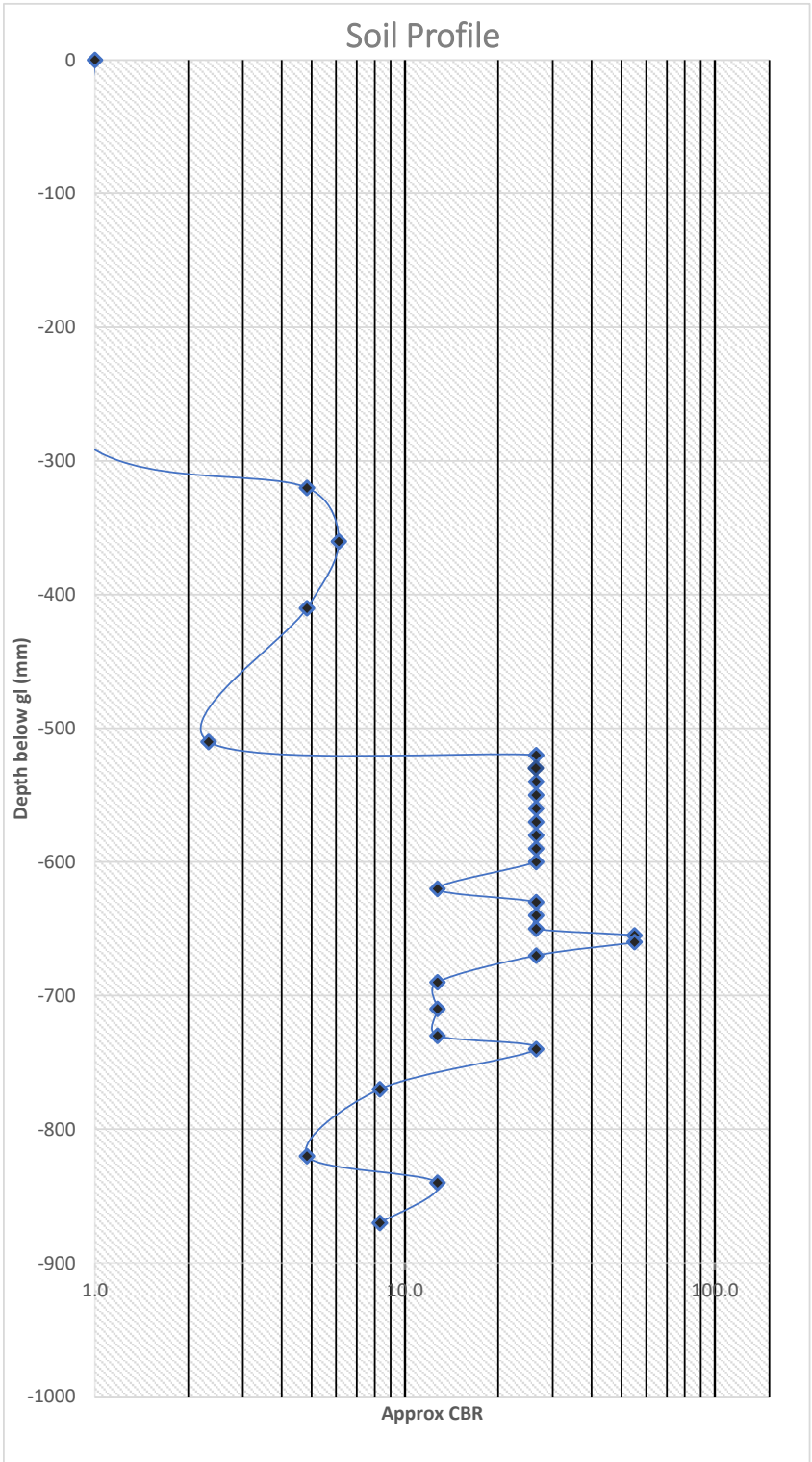
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	140	0	0.0	1.0	0
1	410	270	-0.1	0.8	-270
2	460	50	0.7	4.8	-320
3	500	40	0.8	6.1	-360
4	550	50	0.7	4.8	-410
5	650	100	0.4	2.3	-510
6	660	10	1.4	26.5	-520
7	670	10	1.4	26.5	-530
8	680	10	1.4	26.5	-540
9	690	10	1.4	26.5	-550
10	700	10	1.4	26.5	-560
11	710	10	1.4	26.5	-570
12	720	10	1.4	26.5	-580
13	730	10	1.4	26.5	-590
14	740	10	1.4	26.5	-600
15	760	20	1.1	12.7	-620
16	770	10	1.4	26.5	-630
17	780	10	1.4	26.5	-640
18	790	10	1.4	26.5	-650
19	795	5	1.7	55.1	-655
20	800	5	1.7	55.1	-660
21	810	10	1.4	26.5	-670
22	830	20	1.1	12.7	-690
23	850	20	1.1	12.7	-710
24	870	20	1.1	12.7	-730
25	880	10	1.4	26.5	-740
26	910	30	0.9	8.3	-770
27	960	50	0.7	4.8	-820
28	980	20	1.1	12.7	-840
29	1010	30	0.9	8.3	-870
30					



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPT01

Start depth of test: 0 mm below ground level 0 m

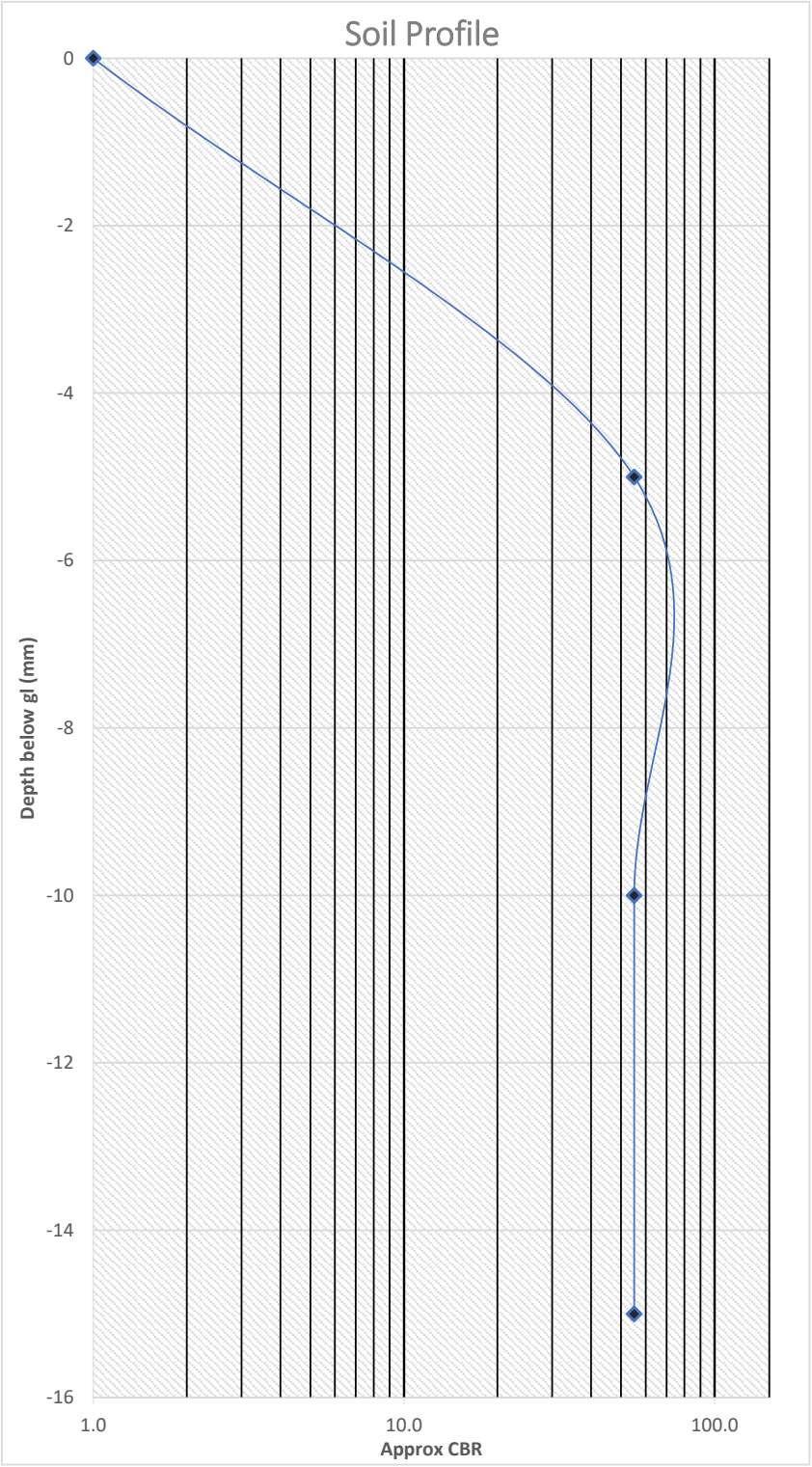
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	135	5	1.7	55.1	-5
2	140	5	1.7	55.1	-10
3	145	5	1.7	55.1	-15
4					
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29					
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPT02

Start depth of test: 0 mm below ground level 0 m

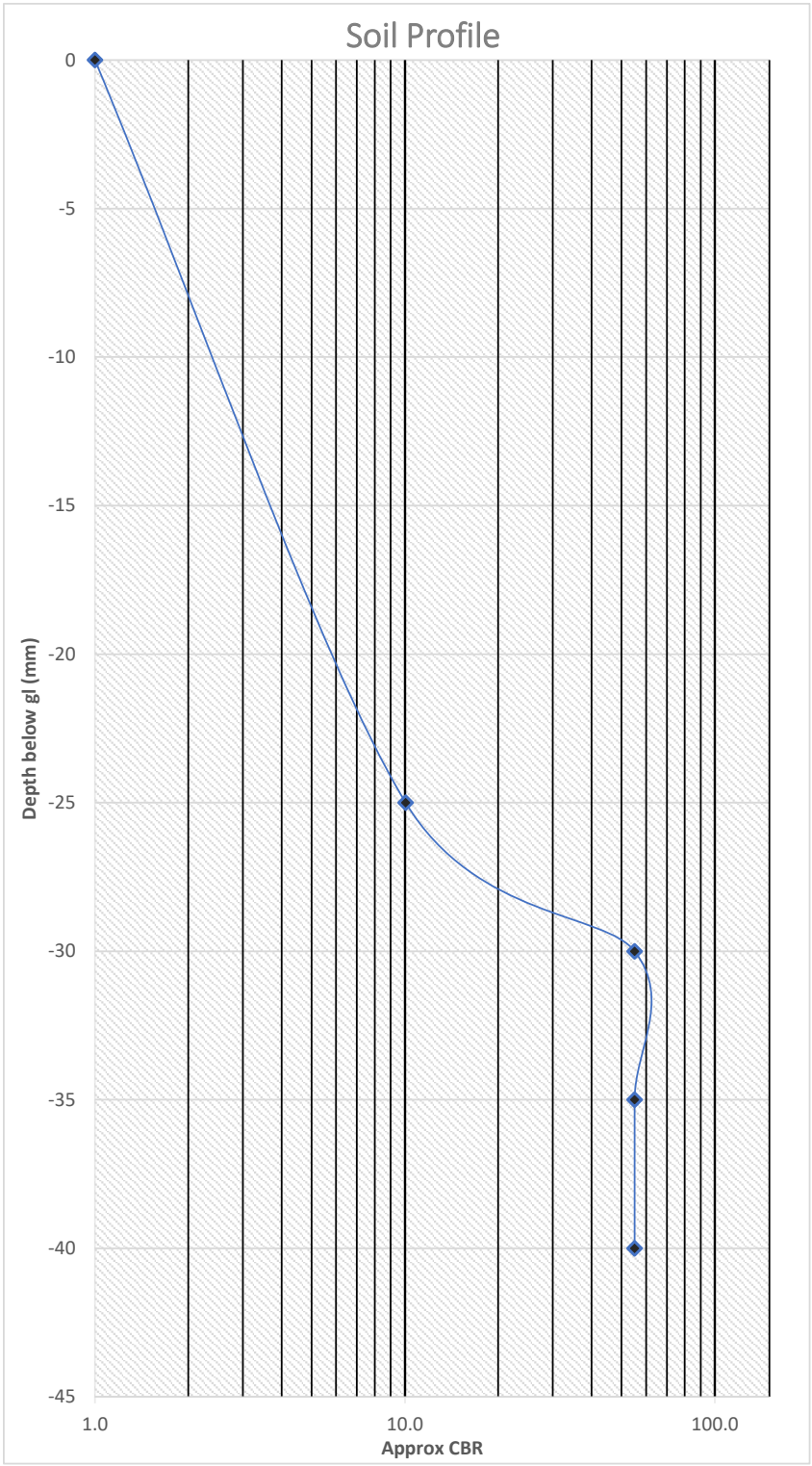
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	160	25	1.0	10.1	-25
2	165	5	1.7	55.1	-30
3	170	5	1.7	55.1	-35
4	175	5	1.7	55.1	-40
5					
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPT03

Start depth of test: 0 mm below ground level 0 m

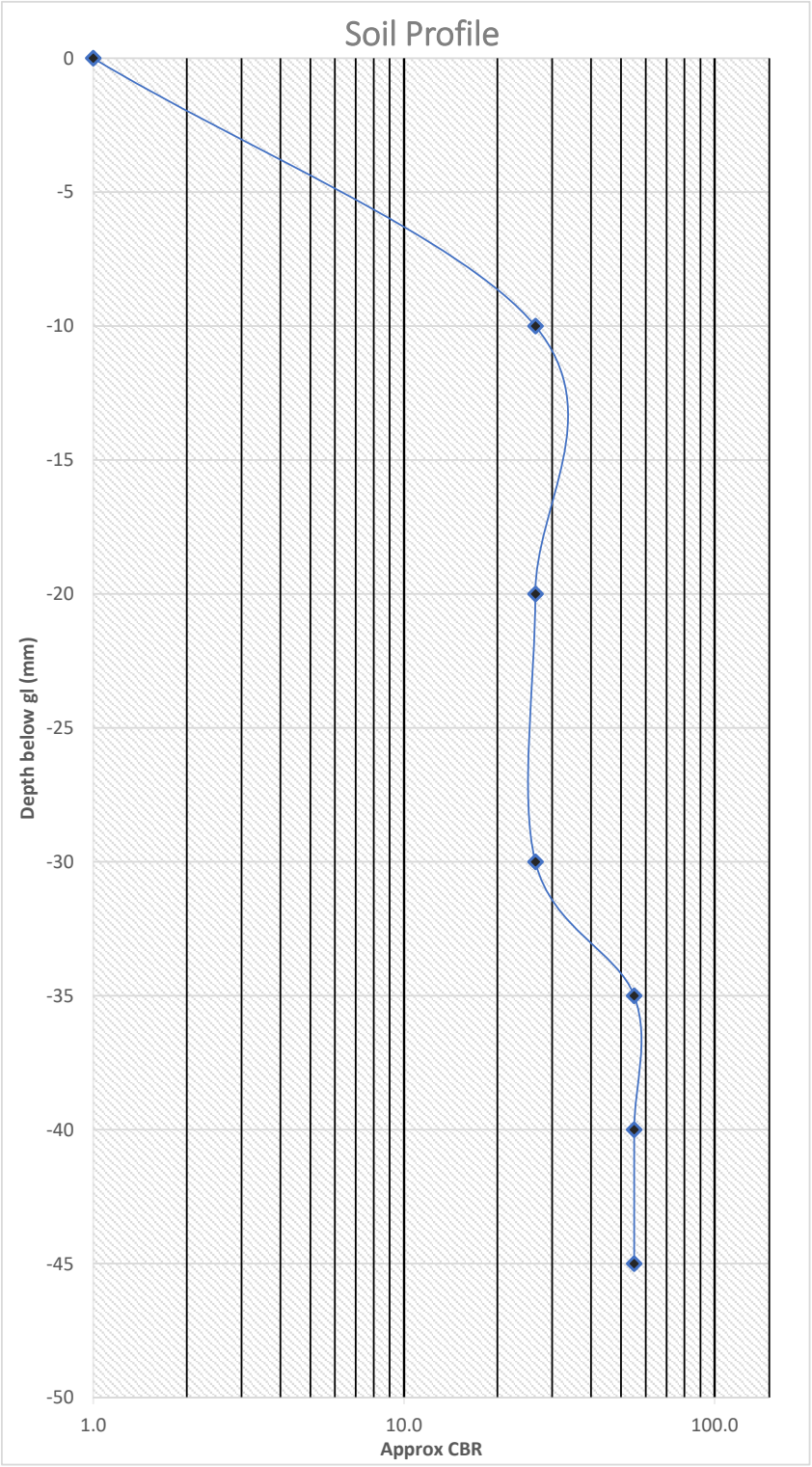
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	150	10	1.4	26.5	-20
3	160	10	1.4	26.5	-30
4	165	5	1.7	55.1	-35
5	170	5	1.7	55.1	-40
6	175	5	1.7	55.1	-45
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9					
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Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPT04

Start depth of test: 0 mm below ground level 0 m

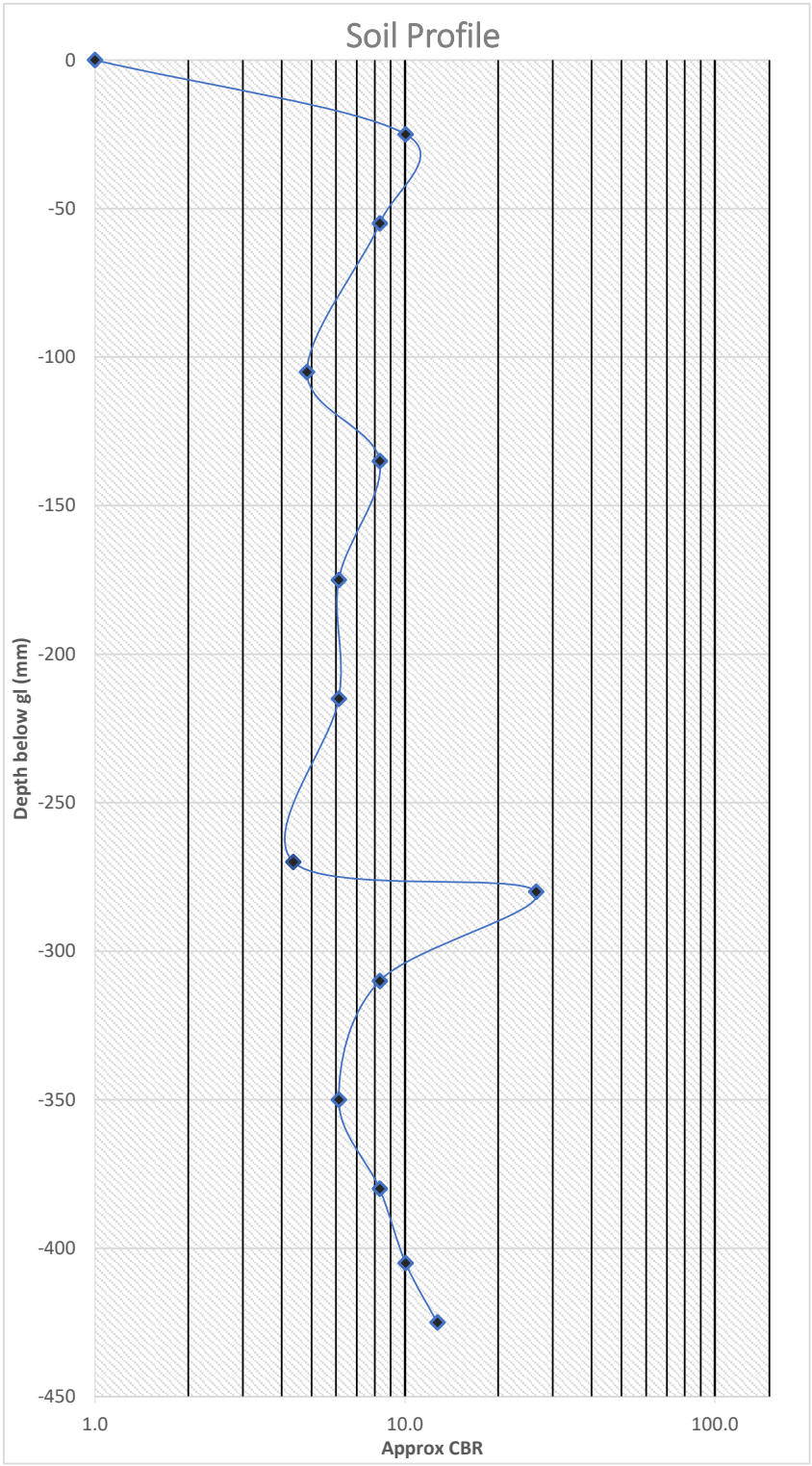
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	135	0	0.0	1.0	0
1	160	25	1.0	10.1	-25
2	190	30	0.9	8.3	-55
3	240	50	0.7	4.8	-105
4	270	30	0.9	8.3	-135
5	310	40	0.8	6.1	-175
6	350	40	0.8	6.1	-215
7	405	55	0.6	4.4	-270
8	415	10	1.4	26.5	-280
9	445	30	0.9	8.3	-310
10	485	40	0.8	6.1	-350
11	515	30	0.9	8.3	-380
12	540	25	1.0	10.1	-405
13	560	20	1.1	12.7	-425
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Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Irish Drilling Ltd., Site Investigation.

Site: Lough Talt WTP 2024SO105

Test Location: TPWH01

Start depth of test: 0 mm below ground level 0 m

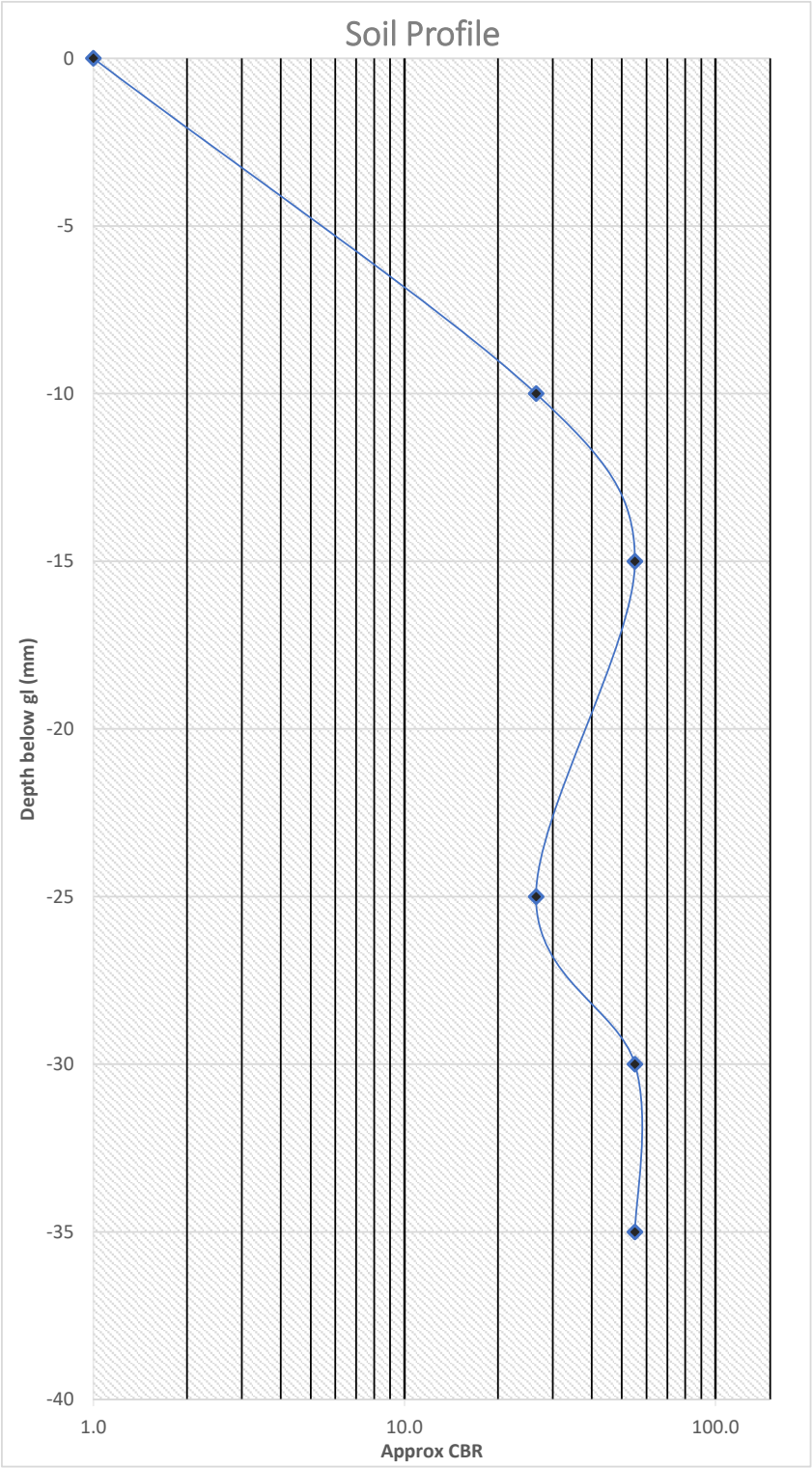
Tested By / on DOR 27/08/2025 **Calc:** DCD

Dynamic Cone Penetrometer Test; ASTM D6951

Blow	Reading (mm)	Penetration Index (mm/blow)	Log CBR	CBR	Depth below surface (mm)
0	130	0	0.0	1.0	0
1	140	10	1.4	26.5	-10
2	145	5	1.7	55.1	-15
3	155	10	1.4	26.5	-25
4	160	5	1.7	55.1	-30
5	165	5	1.7	55.1	-35
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30					

Calculation from NRA, Design Manual for Roads and Bridges: Volume 7 Section 2. Part 2A HD25-26/10. December 2010.

$\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 \times \text{Log}_{10}(\text{mm/blow})$



Appendix 8
Groundwater Readings

Lough Talt Water Levels

Dates		05/08/2025	27/08/2025	25/09/2025	22/12/2025
		SET No.1	SET No.2	SET No.3	SET No. 4
Locations					
BH WH 01		3.93m	3.89m	3.22m	2.38m
BH LG 05		2.39m	2.35m	2.16m	1.96m
BH LR 01		4.19m	4.20m	4.03m	3.84m
BH R 01		6.50m	6.55m	6.56m	6.06m
BH T 02		3.93m	3.90m	3.95m	3.81m

Remarks:
Readings record depth to top of groundwater level from ground level.

Appendix 8A
Soil Infiltration Tests

IRISH DRILLING LTD.
Loughrea Co. Galway

Tel: (091) 841274 info@irishdrilling.ie

Contract:	Lough Talt Lot 1
Client:	Irish Water
Engineer:	Atkins Realis
Date:	06.02.2025
Tested by:	DOR

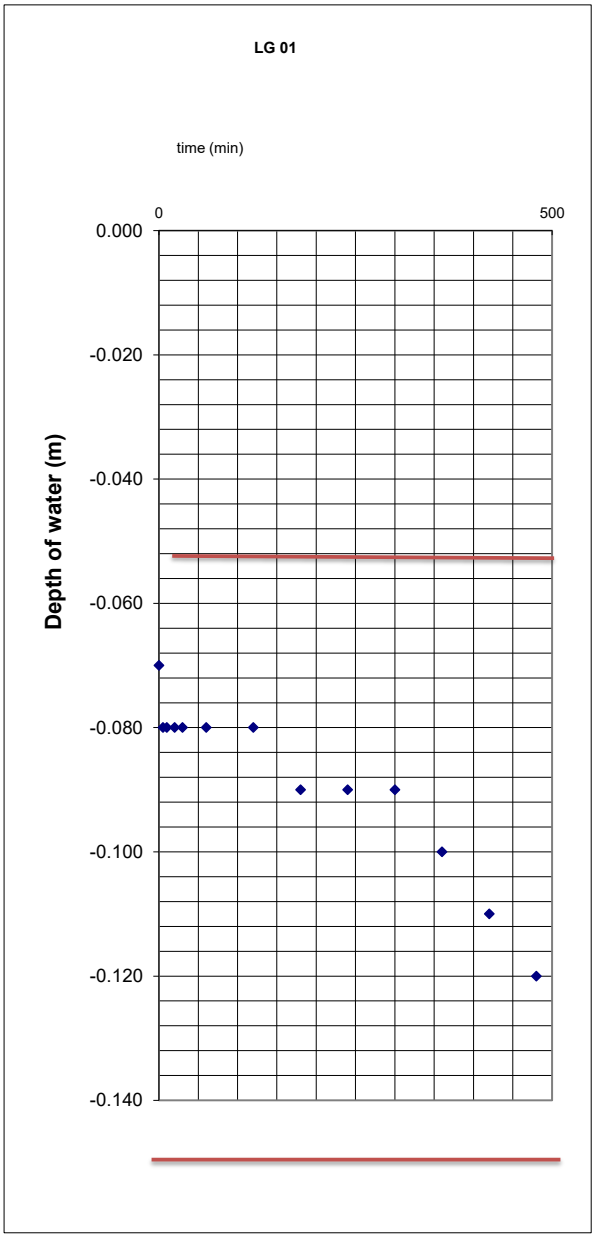
INFILTRATION TEST - to BRE 365

TP LG01

1st FILL

Top of water level: 0.07 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.4 x 1.4

time min	WL m
0	-0.070
5	-0.080
10	-0.080
20	-0.080
30	-0.080
60	-0.080
120	-0.080
180	-0.090
240	-0.090
300	-0.090
360	-0.100
420	-0.110
480	-0.120



Co-Ordinates:
Easting: 519904.8
Northing: 827362.4
R.L. 63.52

Result:
Soil Infiltration Rate = 2.59 x 10-6 m/s
T_{25} and T_{75} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-1.50m: Stiff brown slightly sandy slightlygravelly SILT.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 05.02.2025 *Tested by:* DOR

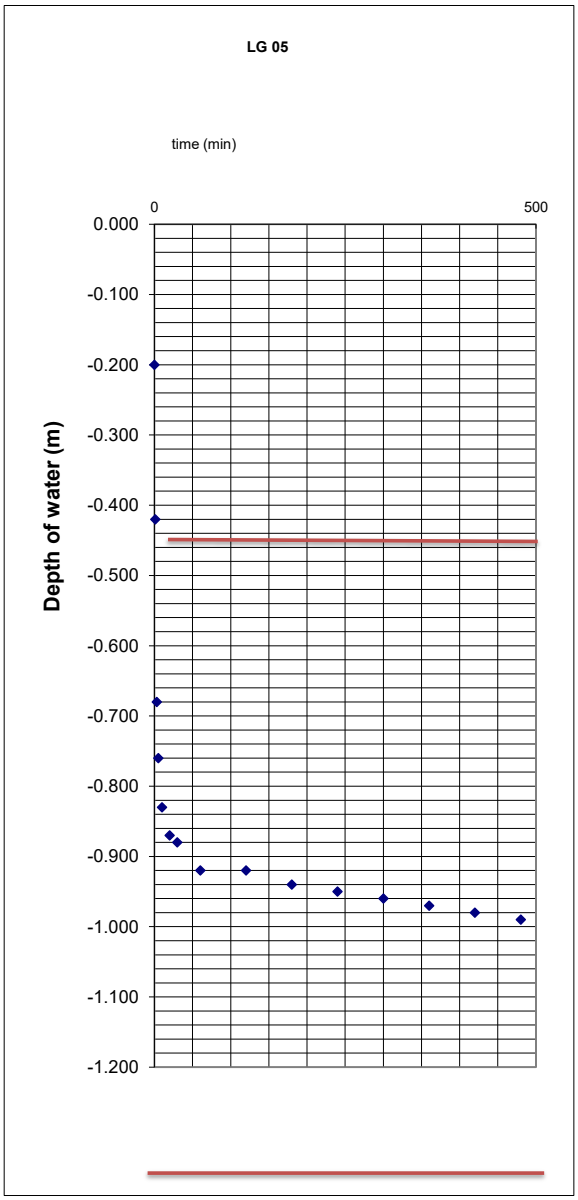
INFILTRATION TEST - to BRE 365

TP LG05

1st FILL

Top of water level: 0.20 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.4 x 1.6

time min	WL m
0	-0.200
1	-0.420
3	-0.680
5	-0.760
10	-0.830
20	-0.870
30	-0.880
60	-0.920
120	-0.920
180	-0.940
240	-0.950
300	-0.960
360	-0.970
420	-0.980
480	-0.990



Co-Ordinates:
Easting: 519881.7
Northing: 827268.6
R.L. 63.76

Result:
Soil Infiltration Rate = 1.41 x 10-5 m/s
T_{25} interpolated.
Ground Conditions:
0.00-1.00m: MADE GROUND-recovered as gravel and cobbles with brown gravelly silt..
1.00-1.50m: Stiff greyish orange brown slightly sandy slightlygravelly SILT.

IRISH DRILLING LTD.
Loughrea Co. Galway

Tel: (091) 841274 info@irishdrilling.ie

Contract:	Lough Talt Lot 1
Client:	Irish Water
Engineer:	Atkins Realis
Date:	31.01.2025
Tested by:	DOR

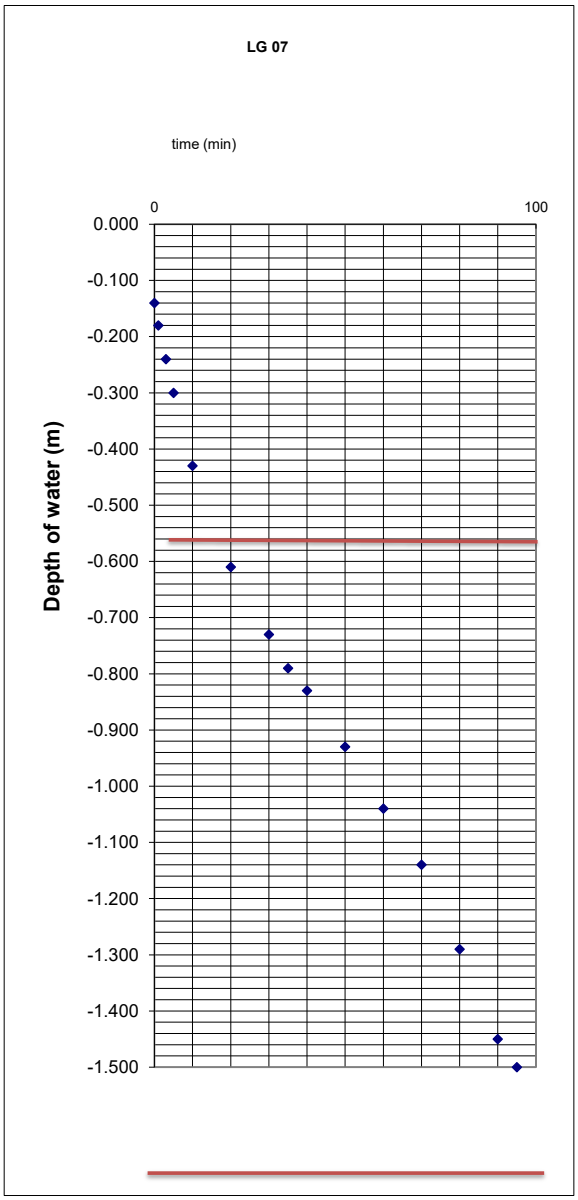
INFILTRATION TEST - to BRE 365

TP LG07

1st FILL

Top of water level: 0.14 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.4 x 1.2

time min	WL m
0	-0.140
1	-0.180
3	-0.240
5	-0.300
10	-0.430
20	-0.610
30	-0.730
35	-0.790
40	-0.830
50	-0.930
60	-1.040
70	-1.140
80	-1.290
90	-1.450
95	-1.500



Co-Ordinates:
Easting: 519824.5
Northing: 827256.3
R.L. 63.26

Result:
Soil Infiltration Rate = 1.14 x 10-4 m/s

Ground Conditions:
0.00-0.20m: TOPSOIL
0.20-1.50m: MADE GROUND-recovered as brown sandy very silty gravel with cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 31.01.2025 *Tested by:* DOR

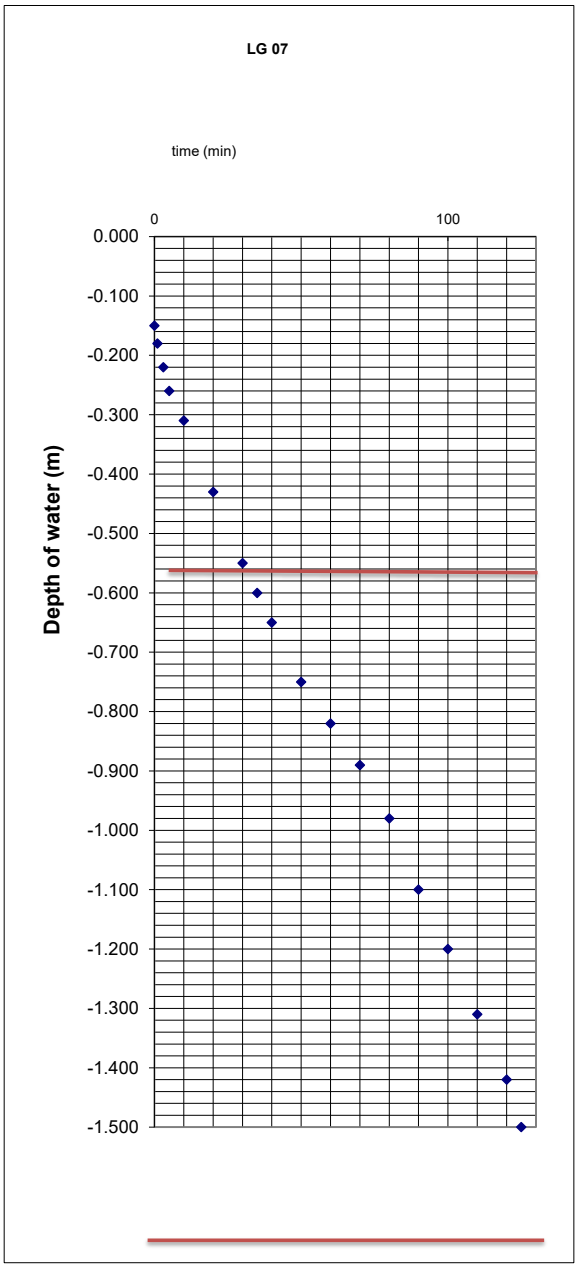
INFILTRATION TEST - to BRE 365

TP LG07

2nd FILL

Top of water level: 0.14 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.4 x 1.2

time min	WL m
0	-0.150
1	-0.180
3	-0.220
5	-0.260
10	-0.310
20	-0.430
30	-0.550
35	-0.600
40	-0.650
50	-0.750
60	-0.820
70	-0.890
80	-0.980
90	-1.100
100	-1.200
110	-1.310
120	-1.420
125	-1.500



Co-Ordinates:
Easting: 519824.5
Northing: 827256.3
R.L. 63.26

Result:
Soil Infiltration Rate = 9.39 x 10-5 m/s

Ground Conditions:
0.00-0.20m: TOPSOIL
0.20-1.50m: MADE GROUND-recovered as brown sandy very silty gravel with cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 31.01.2025 *Tested by:* DOR

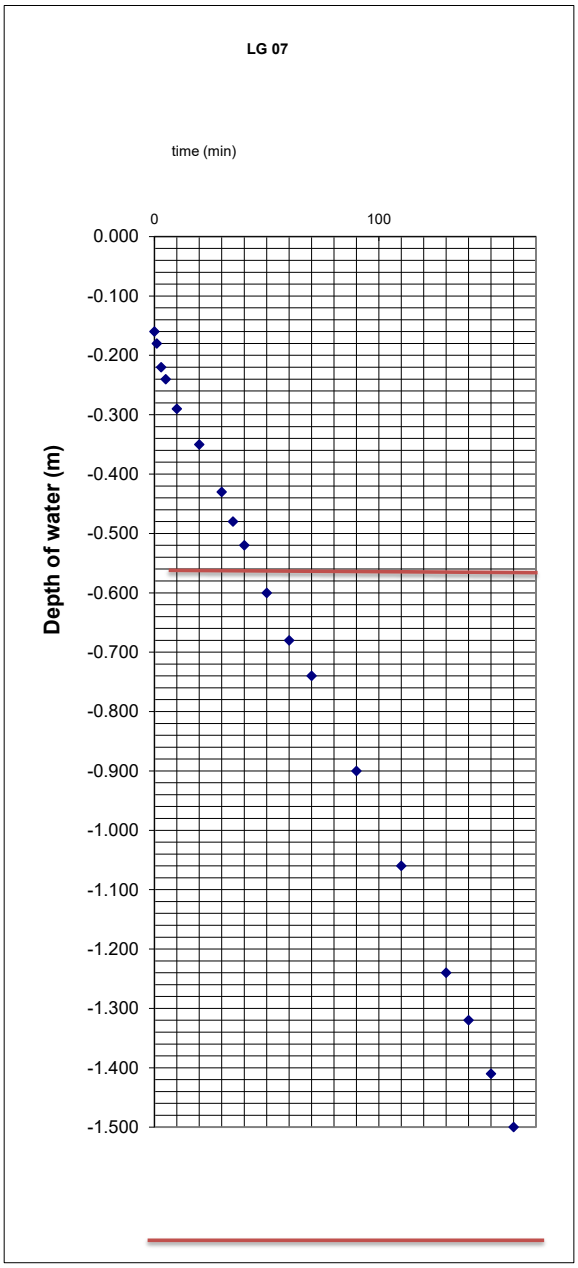
INFILTRATION TEST - to BRE 365

TP LG07

3rd FILL

Top of water level: 0.16 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.4 x 1.2

time min	WL m
0	-0.160
1	-0.180
3	-0.220
5	-0.240
10	-0.290
20	-0.350
30	-0.430
35	-0.480
40	-0.520
50	-0.600
60	-0.680
70	-0.740
90	-0.900
110	-1.060
130	-1.240
140	-1.320
150	-1.410
160	-1.500



Co-Ordinates:
Easting: 519824.5
Northing: 827256.3
R.L. 63.26

Result:
Soil Infiltration Rate = 7.87 x 10-5 m/s

Ground Conditions:
0.00-0.20m: TOPSOIL
0.20-1.50m: MADE GROUND-recovered as brown sandy very silty gravel with cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkinds Realis *Date:* 14.02.2025 *Tested by:* dor

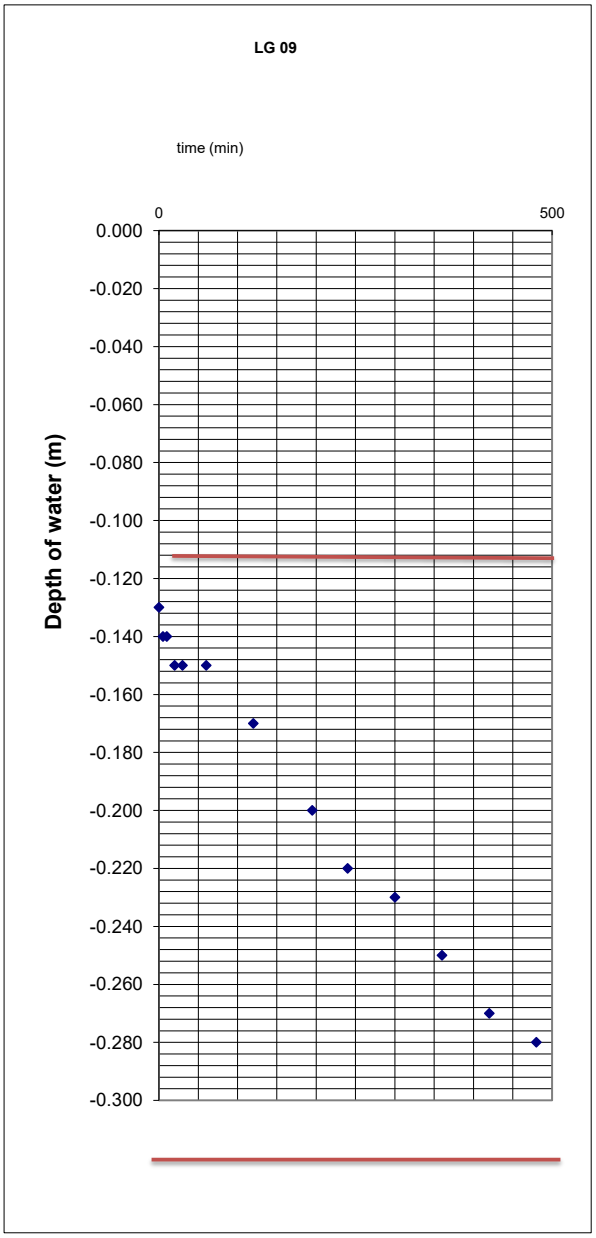
INFILTRATION TEST - to BRE 365

TP LG09

1st FILL

Top of water level: 0.13 m
Base of trial pit: 1.40 m
Dims. of trial pit: 2.3 x 1.2

time min	WL m
0	-0.130
5	-0.140
10	-0.140
20	-0.150
30	-0.150
60	-0.150
120	-0.170
195	-0.200
240	-0.220
300	-0.230
360	-0.250
420	-0.270
480	-0.280



Co-Ordinates:
Easting: 519909
Northing: 827104.7
R.L. 57.92

Result:
Soil Infiltration Rate = 6.08 x 10-6 m/s
T_{25} and T_{75} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-0.90m: Stiff brown slightly sandy slightly gravelly orgnic SILT.
0.90-1.40m: Dark brown sandy very silty GRAVEL with cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 10.02.2025 *Tested by:* DOR

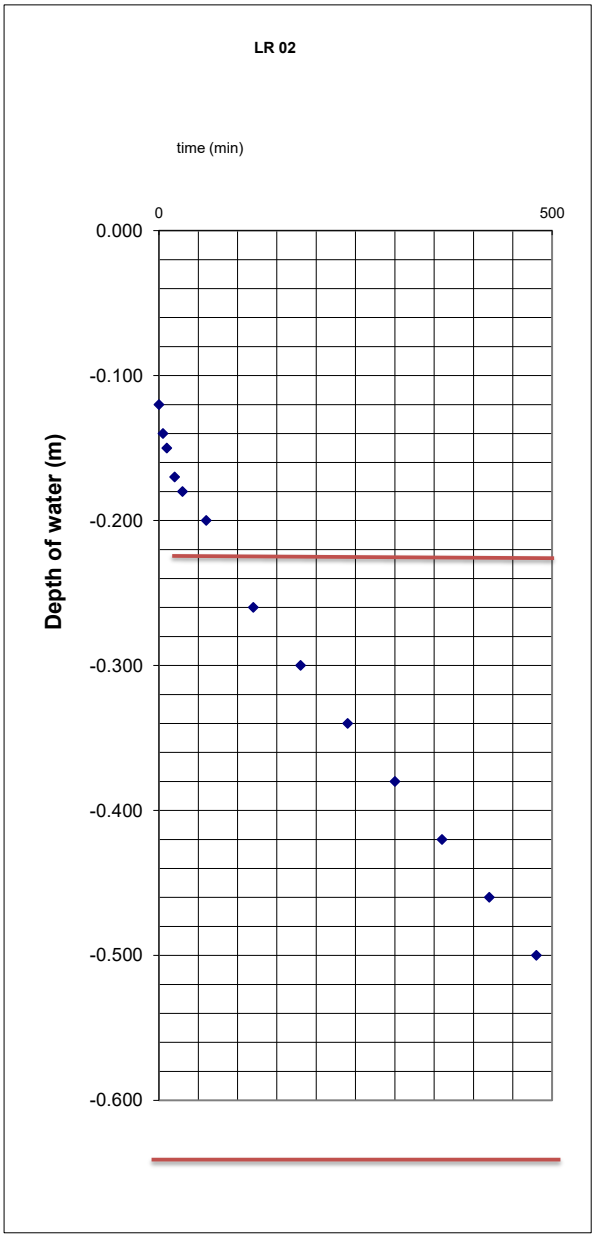
INFILTRATION TEST - to BRE 365

TP LR02

1st FILL

Top of water level: 0.12 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.6 x 1.2

time min	WL m
0	-0.120
5	-0.140
10	-0.150
20	-0.170
30	-0.180
60	-0.200
120	-0.260
180	-0.300
240	-0.340
300	-0.380
360	-0.420
420	-0.460
480	-0.500



Co-Ordinates:
Easting: 520309.7
Northing: 826801.2
R.L. 43.5

Result:
Soil Infiltration Rate = 1.01 x 10-5 m/s
T_{25} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-1.50m: Stiff orange brown slightly sandy slightly gravelly SILT with rare cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 10.02.2025 *Tested by:* DOR

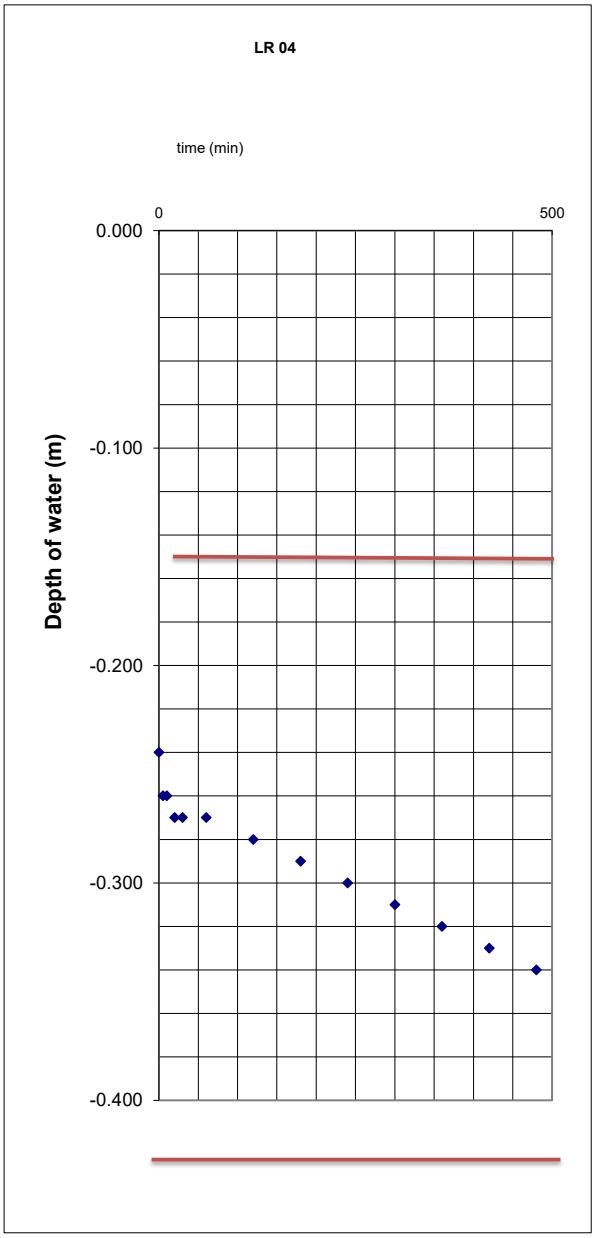
INFILTRATION TEST - to BRE 365

TP LR04

1st FILL

Top of water level: 0.24 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.6 x 1.2

time min	WL m
0	-0.240
5	-0.260
10	-0.260
20	-0.270
30	-0.270
60	-0.270
120	-0.280
180	-0.290
240	-0.300
300	-0.310
360	-0.320
420	-0.330
480	-0.340



Co-Ordinates:
Easting: 520305.1
Northing: 826851.5
R.L. 46.49

Result:
Soil Infiltration Rate = 7.70 x 10-6 m/s
T_{25} and T_{75} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-1.20m: MADE GROUND - Firm brown slightly sandy slightly gravelly SILT with cobbles.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 10.02.2025 *Tested by:* DOR

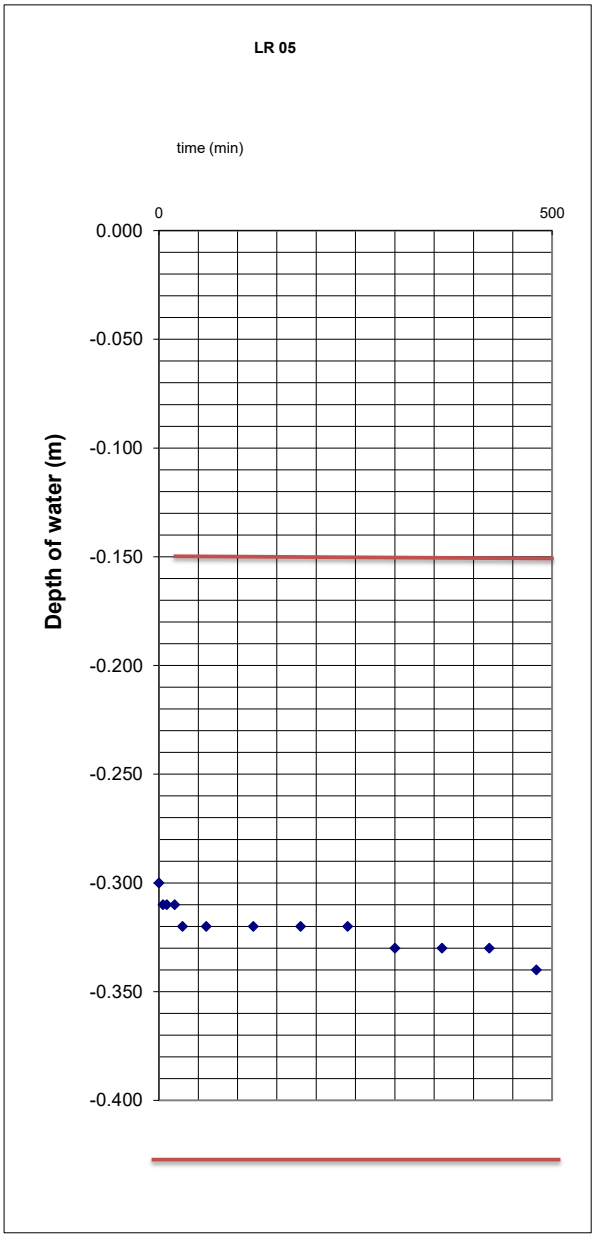
INFILTRATION TEST - to BRE 365

TP LR05

1st FILL

Top of water level: 0.30 m
Base of trial pit: 1.50 m
Dims. of trial pit: 3.2 x 1.4

time min	WL m
0	-0.300
5	-0.310
10	-0.310
20	-0.310
30	-0.320
60	-0.320
120	-0.320
180	-0.320
240	-0.320
300	-0.330
360	-0.330
420	-0.330
480	-0.340



Co-Ordinates:
Easting: 520418.6
Northing: 826834.1
R.L. 44.26

Result:
Soil Infiltration Rate = 9.58 x 10-6 m/s
T_{25} and T_{75} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-1.00m: MADE GROUND - Firm brown slightly sandy slightly gravelly SILT with cobbles.
1.00-1.40m: Stiff dark brown slightly sandy slightly gravelly organic SILT.

IRISH DRILLING LTD. Loughrea Co. Galway Tel: (091) 841274 info@irishdrilling.ie	*Contract:* Lough Talt Lot 1 *Client:* Irish Water *Engineer:* Atkins Realis *Date:* 11.02.2025 *Tested by:* DOR

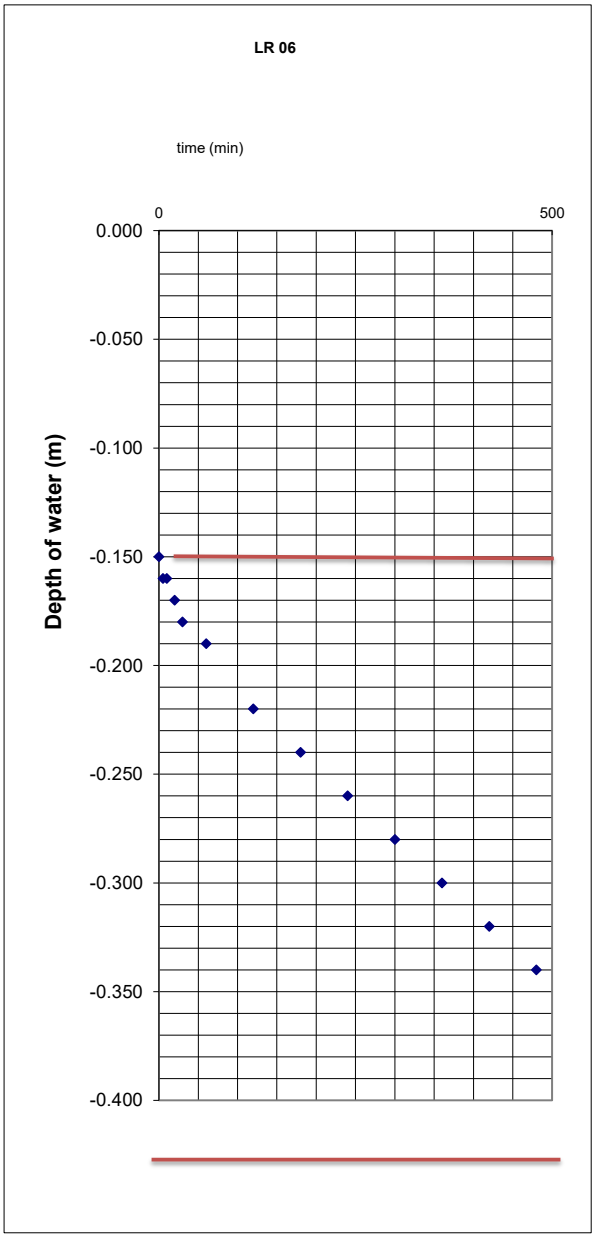
INFILTRATION TEST - to BRE 365

TP LR06

1st FILL

Top of water level: 0.15 m
Base of trial pit: 1.40 m
Dims. of trial pit: 2.8 x 1.2

time min	WL m
0	-0.150
5	-0.160
10	-0.160
20	-0.170
30	-0.180
60	-0.190
120	-0.220
180	-0.240
240	-0.260
300	-0.280
360	-0.300
420	-0.320
480	-0.340



Co-Ordinates:
Easting: 520434.7
Northing: 826924.7
R.L. 44.92

Result:
Soil Infiltration Rate = 7.87 x 10-6 m/s
T_{25} and T_{75} interpolated.
Ground Conditions:
0.00-0.20m: TOPSOIL.
0.20-1.40m: Stiff brown slightly sandy slightly gravelly organic SILT with cobbles.

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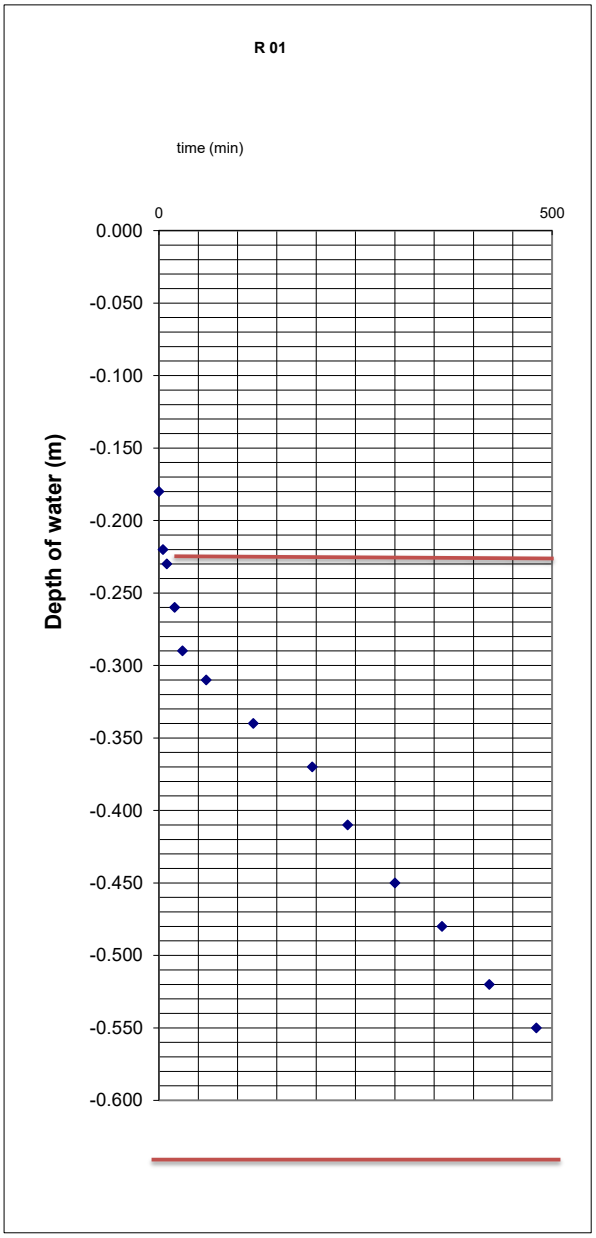
Contract: Lough Talt Lot 1
Client: Irish Water
Engineer: Atkins Realis
Date: 25.02.2025
Tested by: DOR

INFILTRATION TEST - to BRE 365

TP R01
1st FILL

Top of water level: 0.18 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.8 x 1.2

time min	WL m
0	-0.180
5	-0.220
10	-0.230
20	-0.260
30	-0.290
60	-0.310
120	-0.340
195	-0.370
240	-0.410
300	-0.450
360	-0.480
420	-0.520
480	-0.550



Co-Ordinates:
Easting: 536260.9
Northing: 817618.2
R.L. 181.07

Result:
Soil Infiltration Rate = 1.13 x 10-5 m/s
T_{25} interpolated.
Ground Conditions:
0.00-1.50m: Soft dark brown fibrous PEAT.

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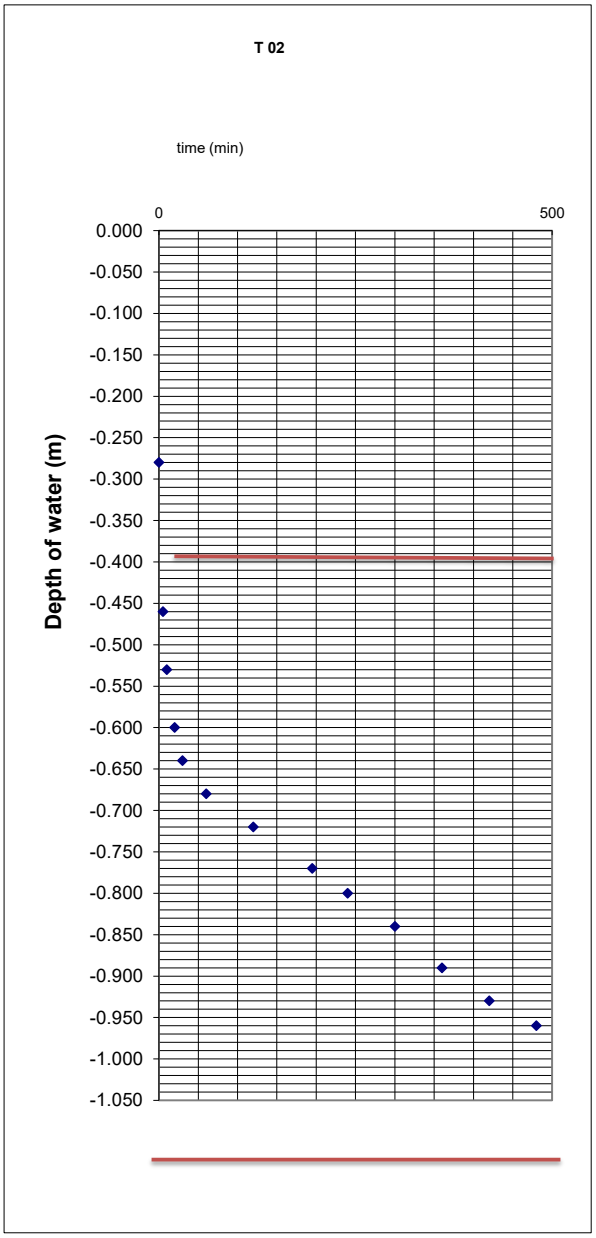
Contract: Lough Talt Lot 1
Client: Irish Water
Engineer: Atkins Realis
Date: 27.02.2025
Tested by: DOR

INFILTRATION TEST - to BRE 365

TP T02
1st FILL

Top of water level: 0.28 m
Base of trial pit: 1.50 m
Dims. of trial pit: 2.2 x 2.2

time min	WL m
0	-0.280
5	-0.460
10	-0.530
20	-0.600
30	-0.640
60	-0.680
120	-0.720
195	-0.770
240	-0.800
300	-0.840
360	-0.890
420	-0.930
480	-0.960



Co-Ordinates:
Easting: 540435.8
Northing: 814287.3
R.L. 126.6

Result:
Soil Infiltration Rate = 1.58 x 10-5 m/s
T_{25} interpolated.
Ground Conditions:
0.00-1.50m: MADE GROUND - COBBLES and BOULDERS with grey brown silty sandy gravel.

Appendix 9
Archaeological Monitoring Survey

FINAL REPORT
ON ARCHAEOLOGICAL MONITORING
OF GEOTECHNICAL SITE INVESTIGATIONS
IN GARRANKEEL TOWNLAND
BALLINA, COUNTY MAYO

License 25E00070



Through Time Ltd.

Professional Archaeological Services

FINAL REPORT
ON ARCHAEOLOGICAL MONITORING
OF GEOTECHNICAL SITE INVESTIGATIONS
IN GARRANKEEL TOWNLAND
BALLINA, COUNTY MAYO

Martin Fitzpatrick, M.A.

December 2025

Through Time Ltd.

Professional Archaeological Services

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Fig. 3: Extract from 1838 6-inch map.

Fig. 4: Plan indicating the location of the site investigation.

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II ABBREVIATIONS

MA - This number is the number of the site on the SMR/RMP map. It begins with the county code, here MA for Mayo the 6-inch sheet number, followed by the number of the archaeological site.

M Meters, all dimensions are given in meters or part of a meter.

NIAH National Inventory of Architectural Heritage

NMI National Museum of Ireland

NMS National Monuments Service, Department of Housing, Local Government and Heritage.

OS Ordnance Survey

OSI Ordnance Survey of Ireland RMP

RMP Record of Monuments and Places. A record on which all known archaeological sites are marked and listed in an accompanying inventory. This resource is based on all publicly available material and cartographic sources and is read in conjunction with constraint maps. The RMP records known recorded monuments and the sites of such monuments (if the monument no longer survives).

RPS Record of Protected Structures

SMR Sites and Monuments Record

PLEASE NOTE*…*

Any recommendations contained in this report are subject to the ratification of the National Monuments Service, Department of Housing, Local Government &, Heritage.

INTRODUCTION

Archaeologist Martin Fitzpatrick was engaged to monitor the excavation of five additional geotechnical site investigations in the townland of Garrankeel on the outskirts of Ballina in County Mayo. The site investigations were being undertaken as part of a proposed water pipeline route between Lough Talt, Co. Sligo to Ballina, Co. Mayo. The purpose of the ground investigation is to adequately characterise the ground conditions and determine the engineering properties of the ground along the proposed route.

The Lough Talt Regional Water Supply Scheme (RWSS) serves a large rural supply area in south Co. Sligo with a population of approximately 13,663 people. The water supply for this region is currently provided from Lough Talt Water Treatment Plant (WTP). The proposed project will see this supply being replaced with a new transfer of potable water from the Ballina RWSS, which will be upgraded and extended.

The proposed project will comprise a number of individual work sites along the linear project:

- Expansion of water treatment capacity will be required at the Lisglennon WTP site.
- An upgraded treated water trunk main network (c. 30 km length) will be required between the Lisglennon WTP and Lough Talt WTP sites, via Ballina town.
- A new booster pumping station will be required near Bunnyconnellan, from where water will then be pumped to a new storage reservoir near the existing Lough Talt WTP site.
- Decommissioning works will be carried out at the existing Lough Talt WTP site, which upon delivery of the proposed project, will cease abstraction and treatment of water from Lough Talt.
- Renewable energy generation equipment (solar panels and energy recovery turbines) is proposed to be installed as part of the works at all new and upgraded sites.

Archaeological monitoring of geotechnical site investigations along the route was undertaken between January and June 2025 (License 25E0070). Additional site investigations at five locations were undertaken over a period of three days in November 2025. The site investigations involved 2 test pits, and 3 slit trenches excavated in the grounds the 19th century Belleek Manor (NIAH Reg. 31303017).

Nothing of archaeological significance was encountered in any of the trenches excavated.

SITE LOCATION

Townland: Garrankeel

Parish: Kilmoremoy

Barony: Tirawley

ITM: 525177 821026

The site investigations were in the grounds of Belleek Manor to the immediate west of the River Moy and c. 2km north of the town of Ballina in north County Mayo. The three slit trenches and two test pits were excavated.

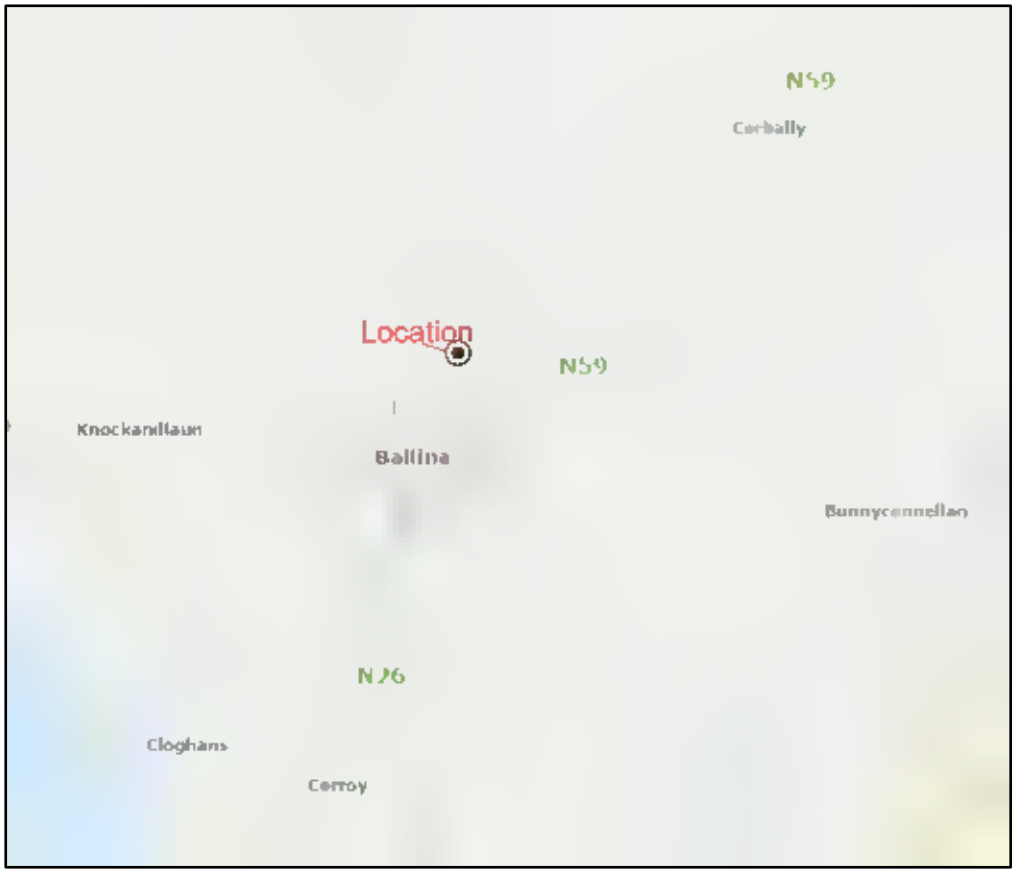


Fig. 1: General Site Location Map.

RELEVANT LEGISLATION

Archaeological monuments are protected through national and international policy designed to secure the protection of the cultural heritage resource. This is facilitated in accordance with the provisions of the European Convention on the Protection of the Archaeological Heritage (Valletta Convention), which was ratified by Ireland in 1997.

The *Historic and Archaeological Heritage and Miscellaneous Provisions Act 2023* ("the

Act") was enacted on 13th October 2023 and partially entered into force on the 31st of May 2024. Pending the commencement of the provisions of the Act which will repeal *the National Monuments Acts 1930 to 2014* and related legislation, those Acts and related legislation remain fully in force as they stood on 13th October 2023.

The National Monuments Act 1930 to 2004 and relevant provisions of the National Cultural Institutions Act 1997 are the primary means of ensuring the satisfactory protection of archaeological remains, which includes all man-made structures of whatever form or date except buildings habitually used for ecclesiastical purposes. A National Monument is described as:

"*a monument or the remains of a monument the preservation of which is a matter of national importance by reason of the historical, architectural, traditional, artistic or archaeological interest attaching thereto*" (National Monuments Act 1930 Section 2).

A number of mechanisms under the National Monuments Act are applied to secure the protection of archaeological monuments. These include the Register of Historic Monuments, the Record of Monuments and Places and the placing of Preservation Orders and Temporary Preservation Orders on endangered sites.

The minister may acquire National Monuments by agreement or by compulsory order. The State or the Local Authority may assume guardianship of any National Monument (other than dwellings). The owners of National Monuments may also appoint the Minister or the local Authority of that monument if the State or Local Authority agrees. Once the site is in ownership or guardianship of the State, it may not be interfered with without the written consent of the Minister.

Section 5 of the 1987 Act requires the Minister to establish and maintain a Register of Historic Monuments. Historic monuments and archaeological areas present on the Register are afforded statuary protection under the 1987 Act. Any interference with sites recorded on the Register is illegal without the permission of the Minister. Two months notice in writing is required prior to any work being undertaken on or in the vicinity of a Registered Monument. The Register also includes sites under preservation orders and temporary preservation orders with the written consent, and at the discretion of the Minister.

Section 12 (1) of the 1994 Act requires the Minister to establish and maintain a Record of Monuments and Places where the Minister believes that such monuments exist. The Record comprises a list of monuments and relevant places and a map/s showing each monument and relevant place in respect of each county in the state. All sites recorded on the Record of Monuments and Places receive statuary protection under the National Monuments Act 1994.

Section 12 (3) of the 1994 Act provides that:

"Where the owner or occupier (other than the Minister) of a monument or place included in the Record, or any other person, proposed to carry out, or to cause or permit the carrying out of, any work at or in relation to such a monument or place, he or she shall give notice to the Minister to carry out work and shall not, except in the

case of urgent necessity and with the consent of the Minister, commence the works until two months after the giving of notice".

The Architectural Heritage and Historic Properties Act 1999 and the Planning and Development Act of 2000 are the main built heritage legislation. The Architectural Heritage Act requires the Minister to establish a survey to identify, record and assess the architectural heritage of the country. The National Inventory of Architectural Heritage (NIAH) records all built heritage structures within specific counties in Ireland. The document is used to advise local Authorities on the register of a Record of Protected Structures (RPS) as required by the Planning and Development Act, 2000. The Act of 2000 requires Local Authorities to establish a Record of Protected Structures to be included in the County Development Plan (CDP). Buildings recorded in the RPS can include Recorded Monuments, structures listed in the NIAH or buildings deemed to of architectural, archaeological or artistic importance by the Minister. Once listed in the RPS the sites/areas receive statuary protection from injury or demolition under the 2000 Act. Damage to or demolition of a site registered in the RPS is an offence. The detail of the list varies from County to County. If the Local Authority considers a building to be in need of a repair it can order conservation and/or restoration works. The owner or developer must make a written application/request to the local authority to carry out any works on a protected structure and its environs.

Where a National Inventory of Architectural Heritage (NIAH) survey has been carried out, those structures which have been attributed a rating value of international, national or regional importance in the inventory are recommended by the Minister of the EHLG to the relevant planning authority for inclusion on the RPS. In accordance with Section 53 of the Planning and Development Act 2000, if a planning authority, after considering a recommendation made to it under this section, decides not to comply with the recommendation, it shall inform the Minister in writing of the reason for its decision.

BELLEEK MANOR HOUSE

The structures at Belleek including the Manor House, Mausoleum, entrance arch, House, castle and stables are Protected Structures (RPS 2-7). The house is registered in the National Inventory of Archaeological Heritage (Reg. No. 31303017) where it is described as follows….

Appraisal

A country house erected for Lieutenant-Colonel Sir Francis Arthur Knox-Gore (1803-73), first Baronet, representing an important component of the early nineteenth-century domestic built heritage of County Mayo with the architectural value of the composition, 'a noble mansion in the later English style of architecture' (Lewis 1837 II, 189), confirmed by such attributes as the deliberate alignment maximising on panoramic vistas overlooking manicured lawns and the broad River Moy; the symmetrical frontage centred on a Tudor-esque doorcase showing pretty Georgian Gothic glazing patterns; the construction in a deep grey limestone with sheer dressings not only demonstrating good quality workmanship, but also compounding a ponderous monochrome palette; the diminishing in scale of the multipartite openings on each floor producing a graduated visual effect with the principal "apartments" defined by polygonal bay

windows; and the elongated pinnacles embellishing a multi-gabled roofline. Having been well maintained, the elementary form and massing survive intact together with substantial quantities of the original fabric, both to the exterior and to the interior where contemporary joinery; and decorative plasterwork enrichments, all highlight the considerable artistic potential of the composition. Furthermore, an adjoining stable complex (see 31303018); the nearby Knox-Gore monument (see 31303019); and an eye-catching gate house (see 31303022), all continue to contribute positively to the group and setting values of a much diminished estate having historic connections with the Knox-Gore family including Sir Charles James Knox-Gore (1831-90), '[second] Baronet late of Belleek Manor Ballina County Mayo' (Calendars of Wills and Administrations 1891, 289); and the succeeding Saunders-Knox-Gore family including Major General William Boyd Saunders-Knox-Gore (né Saunders) (1827-1902) and Matilda Saunders-Knox-Gore (née Knox-Gore) (1833-1912); Lieutenant-Colonel William Arthur Gore Saunders-Knox-Gore JP DL (né Saunders) (1854-1925), one-time High Sheriff of County Mayo (fl. 1900); and Lieutenant-Colonel William Arthur Cecil Saunders-Knox-Gore JP DL (né Saunders) (1888-1975). NOTE: Although traditionally attributed to John Benjamin Keane (d. 1859) of Mabbot Street [James Joyce Street], Dublin (Bence-Jones 1978, 38; Williams 1994, 300-1), strong comparisons with the contemporary Coolbawn House (1823-39) in County Wexford point to Frederick Darley Junior (1798-1872) as an equally likely design source: Darley was also responsible for the County Gaol (1829-34; replaced 1932-40) in Castlebar.

Description

Detached five-bay (two-bay deep) two-storey over basement country house, begun 1825; completed 1831, on an E-shaped plan with single-bay two-storey gabled advanced end bays centred on single-bay full-height gabled breakfront; nine-bay two-storey rear (north) elevation centred on three-bay two-storey breakfront. Occupied, 1911. Sold, 1942. Vacant, 1948. In alternative use, 1954. Vacated, 1956. Sold, 1961, to accommodate alternative use. Pitched slate roofs on an E-shaped plan behind parapet with pressed or rolled lead ridges, limestone ashlar octagonal chimney stacks on cut-limestone chamfered cushion courses on limestone ashlar bases having stringcourses below corbelled stepped capping supporting terracotta or yellow terracotta octagonal pots, part iron-covered dragged cut-limestone coping to gables with cut-limestone octagonal pinnacles to apexes, and concealed rainwater goods retaining embossed cast-iron octagonal or ogee hopper and downpipes. Tuck pointed drag edged dragged limestone ashlar walls to front (south) elevation on moulded cushion course on drag edged dragged cut-limestone plinth with pinnacle-topped drag edged dragged limestone ashlar octagonal piers to corners centred on drag edged dragged limestone ashlar battlemented octagonal piers to corners (breakfront); tuck pointed drag edged tooled limestone ashlar surface finish (remainder) on moulded cushion course on drag edged dragged cut-limestone plinth with drag edged tooled cut-limestone flush quoins to corners. Hipped Tudor-headed central door opening approached by flight of four drag edged tooled cut-limestone steps, dragged cut-limestone doorcase with engaged colonettes supporting archivolt framing timber panelled double doors having sidelights on shield-detailed panelled risers below fanlight. Square-headed flanking window openings in bipartite arrangement with carved timber cruciform mullions and cut-limestone block-and-start surrounds having

chamfered reveals with hood mouldings framing timber casement windows. Square-headed window openings (remainder) with drag edged dragged cut-limestone sills, and drag edged tooled cut-limestone block-and-start surrounds with hood mouldings framing one-over-one (ground floor) or six-over-six (first floor) timber sash windows. Interior including (ground floor): central entrance hall with polished Portland Stone flagged floor, carved timber neo-Jacobean chimneypiece, quatrefoil-detailed carved timber Gothic-style surrounds to door openings framing timber panelled doors, and fan vaulted ceiling with carved timber ribs on panelled octagonal corbels centred on "Acanthus"-detailed ceiling rose; and carved timber surrounds to door openings to remainder framing timber panelled doors with carved timber surrounds to window openings framing timber panelled shutters on panelled risers. Set in landscaped grounds with drag edged tooled limestone ashlar chamfered piers to perimeter having moss-covered shallow pyramidal capping supporting quatrefoil-detailed cast-iron double gates.

To the west of the house are the stables recorded in the NIAH (Ref. 31303018) as follows…..

‘Stable complex, begun 1825; completed 1831, on a U-shaped plan about a courtyard including (south): Detached three- or seven-bay single-storey stable block with half-attic on a symmetrical plan. Now disused. Pitched slate roof with moss-covered clay or terracotta ridge tiles, dragged cut-limestone coping to gables with tooled cut-limestone octagonal pinnacles to apexes, and cast-iron rainwater goods on cut-limestone eaves retaining cast-iron downpipes. Tuck pointed coursed or snecked tooled limestone walls with tooled cut-limestone flush quoins to corners. Series of three square-headed door openings in camber-headed recesses with tooled limestone ashlar voussoirs framing timber panelled doors. Square-headed window openings in camber-headed recesses with drag edged dragged cut-limestone sills, and tooled limestone ashlar voussoirs framing fixed-pane fittings having lattice glazing bars; (west): Detached three-bay double-height stable block on a symmetrical plan. Now disused. Part overgrown pitched slate roof on collared timber construction with clay ridge tiles, and cast-iron rainwater goods on cut-limestone eaves retaining cast-iron downpipes. Tuck pointed snecked tooled limestone walls with tooled cut-limestone flush quoins to corners. Square ventilation loops centred on square-headed central door opening with cut-limestone surround having chamfered reveals framing remains of timber panelled door. Square-headed flanking window openings with cut-limestone surrounds having chamfered reveals framing remains of timber fittings; (north): Detached six-bay single-storey coach house with half-attic on a symmetrical plan. Now disused. Pitched slate roof with rolled iron ridge, dragged cut-limestone coping to gables with tooled cut-limestone octagonal pinnacles to apexes, and remains of cast-iron rainwater goods on cut-limestone eaves with downpipes now missing. Tuck pointed coursed or snecked tooled limestone walls with tooled cut-limestone flush quoins to corners. Series of four segmental-headed central carriageways with drag edged tooled limestone ashlar voussoirs centred on drag edged tooled cut-limestone keystones framing timber boarded double doors. Square-headed window openings in camber-headed recesses with drag edged dragged cut-limestone sills, and tooled limestone ashlar voussoirs framing fixed-pane fittings having cast-iron lattice glazing bars. Set in landscaped grounds shared with Belleek Manor’.

RECORDED MONUMENTS

One recorded -monument Monumental Structure (MA030-037) is recorded in the vicinity of the works. It is located in mixed woodland, formerly part of the Belleek Castle estate, close to the W bank of the River Moy.

The following account of the monument was derived from the Archaeological Survey of Ireland files…

'This monument was commissioned by Charles James Knox (1835-1924) as a memorial to his father, Sir Francis Arthur Knox-Gore, Baronet and Lord Lieutenant of Sligo (1803-1873), who built the manor house, Belleek Abbey, located 150m to NW. An elaborate cut-limestone, gothic-style structure crowns the summit of a substantial circular, flat-topped earthen mound (diam. c. 23m; top 10m; H 3.7m). The mound is enclosed at its base by a fosse (Wth at base 4m) with external bank (Wth 10.3m; int. H 2-2.5m; ext. H 1m). Steps have been cut into the slope of the mound at the SSE providing access to the top. At E-SE the outer bank has been incorporated into the line of an unpaved forest pathway. The large size of the mound gave rise to a local legend that Knox-Gore's favorite horse was buried here (www.archaeology.ie)..

Topographical Files of the National Museum of Ireland

This is an archive of all known finds recorded by the National Museum. The archive primarily relates to artefacts but also includes references to monuments and previous excavations. The find spots of artefacts are important contributors to the knowledge of the archaeological landscape. Locational information to finds is an important indicator or human activity.

The topographical records include no references to artefacts from Garrenkeel.

Previous Archaeological work in the area

Townland: Garrankeel
Licence number: 98E0214
Author: Donald Murphy, Archaeological Consultancy Services Ltd.
Site type: Designed landscape - tree-ring
ITM: E 525868m, N 821187m

An archaeological assessment was carried out at Garrankeel, Ballina, Co. Mayo, in advance of a proposed industrial development. The site consisted of two low banks at right angles to each other, identified in the course of an Environmental Impact Statement. Two trenches were excavated. Trench 1, 3.5m x 1m, was placed across the eastern bank. Sod was found to overlie naturally derived gravel, which overlay natural, yellow/brown boulder clay. No trace of a ditch was recovered, and the interior contained a layer of stony, brown clay in which were two iron handles of a bucket of probable 19th-century date. The feature appears to be a 19th-century tree ring, built as part of Belleek Castle demesne.

Cartographic Analysis

Analysis of the Ordnance Survey Maps dating from the 1830's to the present day facilitated a further assessment of the Archaeological Heritage of the area of the site investigations. The historic ordnance survey maps record the manor house Belleek Abbey and surrounding designed landscape. The 1896 6-inch map records a large saw mill to the west of the house. The area of the east of the house is recorded as open countryside in the 1838 map edition while in the 1896 map edition the area has been landscaped with the ground level altered. site investigations development and access road located in the northern end of two rectangular fields located immediately south of the roadway.



Fig. 2: Extract from 1838 6-inch map.



Fig. 3: Extract from 1896 6-inch map.

ARCHAEOLOGICAL MONITORING OF SITE INVESTIGATIONS

Site investigations were undertaken at five separate locations to the NW, W, S, SW and E of Belleek manor (Fig. 4). The investigations included three slit trenches (approx. 8m x 0.8m) mechanically excavated to the NW, S and E of Belleek House. All of the trenches were excavated in grass/verge by a mechanical excavator utilising a toothless bucket. Two trial pits (3m x 0.8m) were excavated to the SW and SE of the house (Fig. 4).

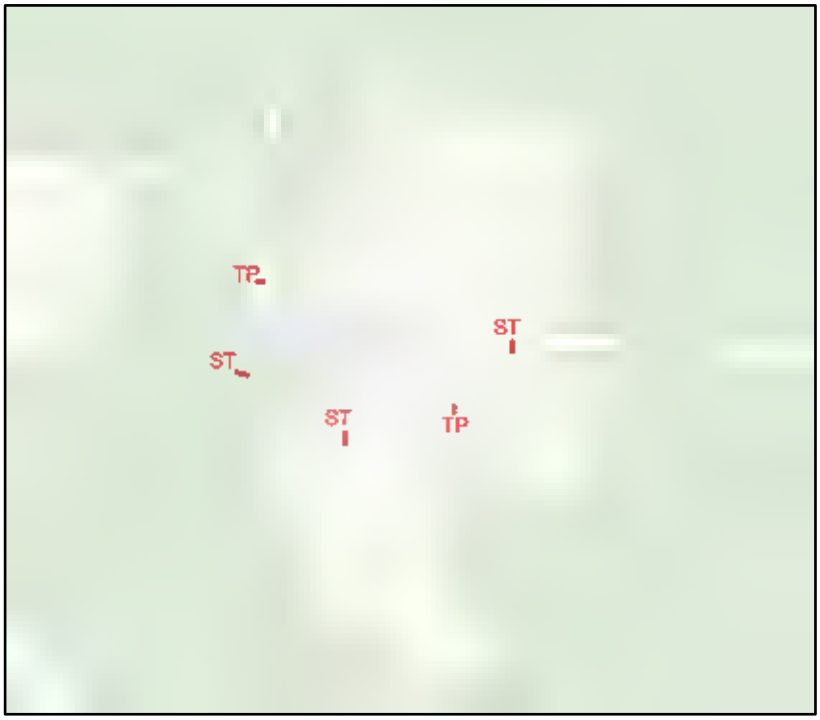


Fig. 4: Plan indicating the location of the site investigation.

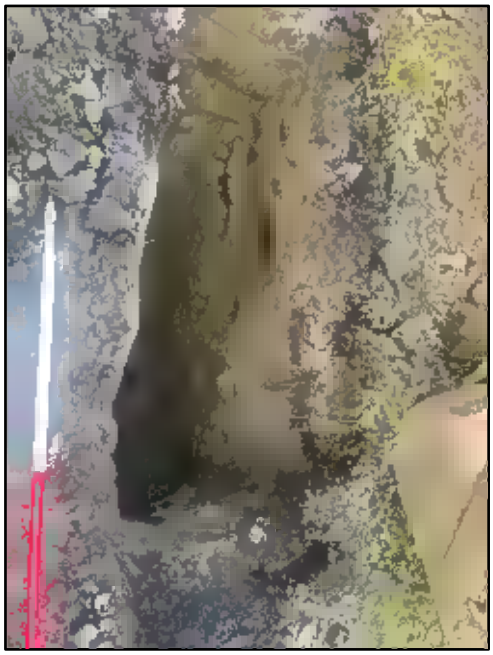


Plate 1: Aerial view indicating the Locations of the site investigations.

Trial Pits

TP (M102)

Excavated on side of internal road to NW of Belleek House. This trench measured 2.5m x 0.8m and was excavated to a depth of 2.3m. The stratigraphy consisted of 804 stone fill 0.3m deep over a light brown sandy silt to 0.5-0.6m over a silty sand. Nothing of archaeological significance was encountered in this trench.

Plates 2 & 3: The location and excavation of TP102.

TP103

Excavated on grass to the SE of Belleek House. The trench was orientated N-S and measured 3m x 0.8m. The stratigraphy encountered was sod and topsoil 0.2m over a yellow brown sandy clay to 1m over rock.



Plate 4: Location of TP103. Taken from the S.



Plate 5: TP 103 from the N.

Slit Trenches

ST 114

Excavated on the south verge of an internal road to the SW of the stables and house. Orientated NW-SE this trench measured 6m x 0.8m and was excavated to a maximum depth of 1-1.1m. The stratigraphy consisted of road fill 0.3-0.4m over a brown silty clay with large boulder inclusions at the base to 1m-1.1m. ESB service pipes were encountered at a depth of 0.75m.



Plate 6: Location of ST114. Taken from the SE.




Plates 7 & 8: View of ST 114 from SE and NW.

ST 115

Excavated on grass to the south of Belleek house. Orientated N-S this trench measured 4m x 0.8m and was excavated to a depth of 1.3m. The stratigraphy consisted of sod and topsoil 0.25m over a light brown/grey silty clay to 0.55m over a grey silty clay with frequent stone inclusions to 1.25-1.3m over rock.



Plate 9: Location of ST115. Taken from the S.




Plates 10 & 11: Excavation of ST 115 from N and S.

ST116

Excavated across a narrow path to the east of Belleek House. Orientated N-S it measured 5m x 0.8m and was excavated to a depth of 1.7m-1.8m. The stratigraphy consisted of sod and topsoil 0.25m over a brown clay to 0.5-0.55m on either side of the path. The path fill extended for a depth of 0.55m and overlay a yellow grey sandy clay to a depth of 1.7m which overlay large boulders. Nothing of archaeological significance was encountered.




Plates 12 & 13: View of trench location and excavation from the S.

CONCLUSIONS & RECOMMENDATIONS

Archaeological monitoring of geotechnical site investigations in the grounds of Belleek manor were undertaken as part of a proposed water pipeline route between Lough Talt, Co. Sligo to Ballina, Co. Mayo. Previous archaeological monitoring of geotechnical site investigations along the route were undertaken between January and June 2025 (License 25E0070). The additional site investigations were undertaken over a period of three days in November 2025. They involved 2 test pits, and 3 slit trenches excavated in the grounds the 19th century Belleek Manor (NIAH Reg. 31303017). No finds or features of archaeological significance were encountered in any of the trenches excavated.

The archaeological assessment of the proposed pipeline route for an EIAR is currently underway and the results of these site investigations will be incorporated into the overall report. It will be recommended that any proposed ground disturbance in the area of Belleek manor will be subjected to full time archaeological monitoring.

PLEASE NOTE…

Any recommendations contained in this report are subject to the ratification of the National Monuments Service, Department of Housing, Local Government &, Heritage.

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Appendix 10
Geophysical Survey

Ballina RWSS Upgrade Extension to Lough Talt

Ballina, Co. Mayo

Geophysical Survey

Report Status: Draft

MGX Project Number: 6833

MGX File Reference: 6833d-005.doc

7th February 2025

Confidential Report To:

Irish Drilling Ltd.
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Report submitted by:
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Subsurface Geophysical Investigations

EXECUTIVE SUMMARY

1. Minerex Geophysics Ltd. (MGX) carried out a geophysical survey consisting of the methods 2D-Resistivity (ERT) and Seismic Refraction (p-wave). The survey was carried out in three separate locations for the ground investigation for the Ballina RWSS Upgrade Extension to Lough Talt Project on counties Mayo and Sligo.
2. The main objectives of the survey were to determine the ground conditions under the site, to determine the depth to rock and the overburden thickness, to estimate the strength or stiffness or compaction of overburden and the rock quality, to establish the presence of faults and fracture zones and to detect possible karstified rock.
3. At the **Lisglennon WTP,** the overburden is described as soft or loose soil or made ground (Layer 1b) overlain by very stiff to hard or very dense overburden or poor to fair rock (Layer 3).
4. The rock is interpreted as argillaceous or muddy limestone (Layer 4b) or good limestone (Layer 4c). Layer 4b could also be interpreted as karstified limestone. The depth to the top of the good rock layer is between 1 – 6m below ground level (bgl).
5. The survey at **Wherrew Intake Pump Station** was carried out within lake Conn and was modelled with a total of three layers.
6. The top layer (Layer 1a) is described as loose lake sediments and has a thickness of 1 – 3m.
7. Layer 3 is present from 90m along the survey line and is described as very stiff to hard or very dense overburden or poor to fair rock.
8. The rock is interpreted as good limestone (Layer 4c) and the depth to the top of the rock layer ranges from 1 – 8m bgl, becoming deeper farther into the lake.
9. The survey at the **Lough Talt WwTP** was carried out along the road leading to the plant and within the plant itself.
10. A number of fault or fracture zones have been interpreted across the area.
11. Layer 1b, described as soft or loose soil or made ground and is present across the area with a thickness of up to 1m.
12. Layer 2 is interpreted as firm to stiff or medium dense overburden. The thickness of this layer is between 1 – 7m across much of the area but extends to 14m in thickness at the end of line R2 and the start of line R7 in the southwest corner of the treatment plant.
13. Layer 3 is described as very stiff to hard or very dense overburden or poor to fair rock and has a thickness of 1 – 7m where it is present in the southern side of the treatment plant along line R7.
14. The rock across the area is described as good muddy shist or good pebbly shist. The depth to the top of the good rock layer is between 1 – 8m across much of the area but extends to approx. 17m bgl in the SW corner of the treatment plant at the end of line R2 and the start of line R7.

15. Across all three sites, where 2D-Resistivity data was not available, the rock layer is interpreted as good rock based on the seismic refraction data.
16. It is recommended to target some fault or fracture zones at the Lough Talt WwTP and possible karstified rock in the Lisglennon WTP with direct ground investigations.
17. The interpretation presented here will be reviewed and the report finalised after the direct ground investigation data becomes available.

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1. INTRODUCTION

1.1 Background

Minerex Geophysics Ltd. (MGX) carried out a geophysical survey for the ground investigation for the Ballina Regional Water Supply Scheme Upgrade Extension to Lough Talt. The survey consisted of 2D-Resistivity (ERT), Seismic Refraction (p-wave) at locations proposed by Uisce Eireann. The survey was commissioned by Irish Drilling.

This survey utilized two complementary geophysical methods to the improve final interpretation. The role of geophysics as a non-destructive fast method is to provide a geological interpretation over a wide area to complement direct ground investigation at specific locations. The direct ground investigation results can be used to improve the initial geophysical results and interpretation.

1.2 Objectives

The main objectives of the geophysical survey were:

- To determine the ground conditions under the site
- To determine the depth to rock and the overburden thickness
- To estimate the strength or stiffness or compaction of overburden materials and the rock quality
- To determine the type of overburden and rock
- To detect lateral changes within the geological layers
- To detect possible karstified zones within the rock or karst features

1.3 Site Description

The survey locations were carried out in three separate and distinct locations across the whole scheme.

Lisglennon WTP is located approx. 8km NW of Ballina in the townland of Lisglennon. The survey was carried out in the existing WTP and in agricultural fields to the SE. Access into the WTP was from the local road to the north and access to the agricultural fields was from the south. Elevations on site sloped towards the SE from 64mOD in the NW to 47mOD in the SE. The survey covers an area of approx. 13.5Ha.

The **Wherrew Intake Pump Station** is located approx. 7km SW of Ballina. The survey in this area was carried out on Lough Conn. The site was accessible through the Pump Station and a small boat was used to carry out the survey. Elevations at the bottom of the lake are between 5.8 and 7.1mOD which was taken from a bathymetric survey. Water levels were at 9.6mOD.

At the **Lough Talt WwTP** surveying was carried out within the compound and along the R294 road leading up to the compound. Along the road there was approx. 580m of surveying carried out along the western and northern verge of the road. The survey started along the banks of Lough Talt and finished close to the entrance into the WwTP. Within the compound, the survey covered an area of approx. 2.4Ha. The western side of the compound contains the WwTP as well as an access road and a small grass area. There is outcrop visible in the NW of the site. East of the access road is heavily overgrown with trees and marshy ground and there is a stream running E-W through the site. There is an access track along the north of the area and some grass between close to the road in the south where the survey could be carried out.

1.4 Geology

Online geological maps of Ireland (GSI, 2022) give the following information:

For **Lisglennon WTP:**

The quaternary sediments map indicates most of the site is underlain by bedrock outcrop or subcrop with some till derived from limestone in the SE.

In terms of rock the survey area is underlain by the Ballina Limestone Formation (Lower), described as dark fine-grained limestone and shale.

There are no faults or karst features recorded near the site.

For the **Wherrew Intake Pump Station:**

There are no quaternary sediments described in the lake. At the Pump station they are described as till derived from limestone.

In terms of rock, the survey area is underlain by the Ballina Limestone Formation (Upper), described as grey limestone and thin shale.

There are no faults or karst features recorded near the site.

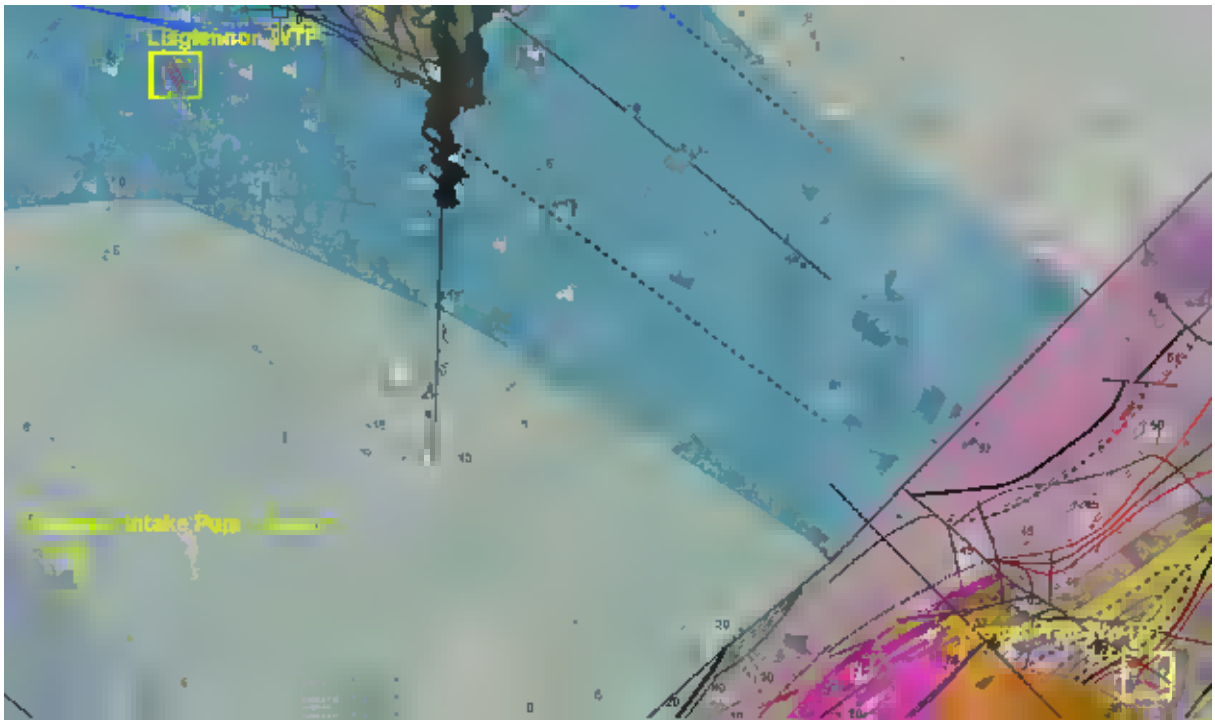
For **Lough Talt WwTP:**

The quaternary sediments map indicates the road and western part of the WwTP is underlain by bedrock outcrop or subcrop with till derived from metamorphic rock in the east.

In terms of rock the survey area is underlain by the Meelick Member, described as schist, aluminous schist and pebble beds.

There is a WNW-ESE Fault close to the start of the road section in the north. There is also a regional NE-SW fault direction across the area. There are no karst features recorded near the site.

Image 1: Geological Bedrock Geology 100k, GSI



1.5 Report

This report includes the results and interpretation of the geophysical survey. Maps, figures and tables are included to illustrate the results of the survey. More detailed descriptions of geophysical methods and measurements can be found in GSEG (2002), Milsom (1989) and Reynolds (1997).

The description of soil, rock and the use of geotechnical terms (soft, stiff, dense etc) follows Eurocode (2007) and BSI (2020) standards. The terms are defined in the standards and the physical parameters are related from experience. This geophysical survey has been acquired, processed, interpreted and reported in accordance with these guidelines.

The client provided Ordnance Survey background map of the site and the digital version was used as the background map in this report. Elevations were surveyed on site and are used in the vertical sections. The elevations of the lake bed in Lough Conn were taken from a bathymetric survey which had previously been carried out in the area. The water level on the lake was surveyed during the geophysical survey.

The interpretative nature and the non-invasive survey methods must be taken into account when considering the results of this survey and Minerex Geophysics Limited, while using appropriate practice to execute, interpret and present the data, give no guarantees in relation to the existing subsurface.

2. GEOPHYSICAL SURVEY

2.1 Methodology

The methodology consisted of using 2D-Resistivity and Seismic Refraction surveying across the survey areas. The survey locations are indicated on the Maps. The lines, locations and parameters are tabulated in Table 1 attached at the end of this report.

2.2 2D-Resistivity (ERT)

2D-Resistivity lines were surveyed with electrode spacing of 3m on land, up to 64 electrodes per set-up and a maximum length of 189m per set-up. On Lock Conn an electrode spacing of 5m was used with a total length of 155m. The readings were taken with a Tigre Resistivity Meter, Imager Cables, stainless steel electrodes and a laptop with ImagerPro acquisition software.

The 2D-Resistivity lines were surveyed continuously along the road at Lough Talt and along long lines crossing the Water Treatment Plants. The data was acquired in the roll-along mode which achieves continuous coverage to a depth of 15m between the ends of the lines.

During 2D-Resistivity surveying, data is acquired in the form of linear arrays using a suite of metal electrodes. A current is induced into the ground via a pair of electrodes whilst a potential difference is measured across a second pair of electrodes. This allows for the recording of the apparent resistivity in a two-dimensional arrangement below the line. The data is inverted after the survey to obtain a model of subsurface resistivities. The generated model resistivity values and their spatial distribution can then be related to typical values for different geological materials.

While the achieved depth may be viewed as greater than required for the proposed project it does not result in a loss of detail or accuracy in the shallow subsurface. It may however provide additional useful information such as detecting areas of possible karstification which may have implications for subsidence or other construction issues.

The presence of metal underground services like water or gas pipes may influence the results of the survey. This has occurred along sections of the lines carried out at the Lough Talt WwTP in the west of the compound and along line R3 in the Lisglennon WTP. This data has been removed during processing stages. Small sections along lines R1 at 220m and R4 at 60m are also affected by nearby constructions related to the WTP and are noted on the sections.

The 2D-Resistivity Method is designed to work on a two dimensional subsurface, and the more the ground deviates from this and has a more complex 3D structure, the less accurate the resistivity models will be. The accuracy can be best seen at crossings of the 2D lines. 2D-Resistivity has previously proven zones of anomalous or karstified rock with lateral extents of 5m and more.

2.3 Seismic Refraction (p-waves)

Seismic refraction lines were surveyed with geophone spacing of 2m and 24 geophones per set-up resulting in a 46m length per set-up. The recording equipment consisted of a 24 Channel GEOMETRICS ES-3000 engineering seismograph with 4.5Hz vertical geophones. The seismic energy source consisted of a hammer and plate. A zero-delay trigger was used to start the recording. Normally 7 shot points per p-wave set-up were used.

Within the lake, the seismic refraction was surveyed with hydrophone spacing of 3.13m and 24 geophones per set-up resulting in a 72m length per set-up. The recording equipment consisted of a 24 Channel GEOMETRICS ES-3000 engineering seismograph with 4.5Hz vertical hydrophones. The seismic energy source consisted of a seismic gun fired into the water. A zero-delay trigger was used to start the recording. Normally 7 shot points per p-wave set-up were used.

Set-ups were acquired in longer continuous lines using common shot points between set-ups and concatenating into longer lines at the processing stage.

The seismic refraction survey method focuses on propagating p-waves travelling through the subsurface, which are generated by a seismic source. As the wave propagates through the subsurface, its velocity varies as it travels through overburden, rock with different elastic properties, and along geological boundaries. Velocity data is recorded via the surveying equipment, which is then processed, allowing geological layer thicknesses and boundaries to be established.

Seismic Refraction generally determines the depth to horizontal or near horizontal layers where the compaction or strength or rock quality changes with an accuracy of around 20% of the depth to that layer. Where the layers are shallower than the geophone spacing depth deviations of +- 1m to top of layers can occur. Where low velocity layers or shadow zones are present (e.g., below solid ground surface) or where layers dip with more than 20 degree angle the accuracy becomes much less.

In areas with thick concrete or tarmac a low velocity layer exists for the seismic waves below the solid surface layer. This makes it less certain or impossible to pick first breaks from geophones near the source and therefore no velocity determination for the shallow subsurface is possible. This results in larger deviations in the modelling and borehole results are required for a final calibration of the results.

During the survey solid surfaces were avoided as much as possible but in some locations the survey had to follow the road or footpath. Within the Lisglennon WTP, there was approx. 30m of surveying along line S10 which was carried out on tarmac road. This did not have a significant effect on the data. Surveying along the road at Lough Talt was carried out within the verge to mitigate against effects from the road.

The seismic refraction set-ups with 46m individual length have a reasonable penetration depth of around 10m. An internationally accepted maximum depth estimate for a seismic refraction set-up is 1/6 of the set-up length including offshots. The depth penetration varies according to the velocity structure of the subsurface.

In this report we used a depth of 10m bgl. where the seismic modelling was ended as deeper modelling becomes less meaningful.

2.4 Site Work

The data acquisition was carried out between the 4th of December 2024 and the 10th of January 2025. The weather conditions were fair throughout the acquisition period. Health and safety standards were adhered to at all times. Whilst working on roadways and verges, a traffic management system was in place, clearly highlighted by the use of warning signs and cones.

The locations and elevations were surveyed with a Carlson NR3 RTK-GPS to accuracy < 0.05m.

3. RESULTS AND INTERPRETATION

The interpretation of geophysical data was executed utilizing the known response of geophysical measurements, typical physical parameters for subsurface features that may underlay the site, and the experience of the authors.

3.1 2D-Resistivity (ERT)

The 2D-Resistivity data was positioned and inverted with the RES2DINV inversion package. Lines using the roll-along method were concatenated for a joint inversion. The programme uses a smoothness constrained least-squares inversion method to produce a 2D model of the subsurface resistivities from the recorded apparent resistivity values. Three variations of the least squares method are available and for this project the Jacobian Matrix was recalculated for the first three iterations, then a Quasi-Newton approximation was used for subsequent iterations. Each dataset was inverted using seven iterations resulting in a typical RMS error of <3.0%. The resulting models were colour contoured with the same resistivity scale for all lines and they are displayed as cross sections (Figures 1a, 2a & 3a).

The models in the Lisglennon WTP are drawn as a 'visual stack' to allow cross-correlation by eye between them.

Resistivities are characteristic for certain overburden and rock types. If there is a high content of clay minerals (which are electrically conductive) then the overburden resistivity will be lower than as if there is a high content of clastic grains like sand or gravel. The purer the clay and the lower the sand and gravel content, the lower the resistivity. Water content in overburden layers can influence the resistivities, but generally clay content has a more dominating effect.

Within bedrock types like clean limestone or Schist, high resistivities indicate a fresh, strong, unweathered rock. As the weathering in the rock increases the resistivity gets lower because of weathering products, remineralisation of rock and infill of cracks, faults and voids with clay and water. Weathering within rock is typically indicated by lower resistivity values in the cross sections.

In limestone areas, karstified rock is defined in this report as a formerly intact clean limestone rock, liable to karstification, that has been partially dissolved by water over long geological time scales and where the cavities and voids have either remained empty (filled by air) or became filled by overburden sediment (clay, silt, sand), weathering product of the broken rock itself or water. This process would lead to a reduction of the resistivity of the overall rock and therefore karstified rock has a lower resistivity than intact clean limestone rock. This is generally indicated by lower resistivities embedded within high resistivity at depth.

The resistivities cover a range typical for materials from clay rich overburden (low resistivities) to fresh strong unweathered bedrock (high resistivities). The ranges have been taken into the consideration for the interpretation. Within the overburden layers, general variations in the resistivities indicates a mix of material

which would be common in glacial till overburden. Different interpretations for rock are given for the three different areas. At the Lisglennon WTP, Low resistivity values (<700Ωm) within the rock indicate an argillaceous or muddy limestone but could also indicate karstification within a clean limestone. High Resistivities (>700 Ωm) indicates a clean limestone bedrock. At the Wherrew Intake Pump Station, High Resistivities (>700 Ωm) indicates a clean limestone bedrock. At the Lough Talt WwTP site, Low resistivity values (<1000Ωm) indicate a good muddy shist while high resistivity Values (>1000Ωm) indicate a good pebbly schist bedrock. Some areas where the resistivities within the rock change suddenly indicate possible fault or fracture zones.

3.2 Seismic Refraction (p-wave)

The seismic refraction data was positioned and processed with the SEISIMAGER software package to give a layered model of the subsurface. The number of layers has been determined by analysing the seismic traces and a total of 4 layers were used in the models. All seismic lines were subject to a standardised processing sequence which consisted of a topographic correction which was based on integrated elevation data, first break picking, tomographic inversion, travel-time computation via ray-tracing and velocity modelling. Residual deviations of typically 0.4 to 1.8 msec RMS have been obtained for each line. Following each processing stage QC procedures were adhered to. The resulting layer boundaries are shown as thick lines overlaid on the 2D-Resistivity cross sections (Figures 1a, 2a and 3a). The average seismic velocities obtained within the layers are annotated on the sections as bold black numbers.

The p-wave seismic velocity is closely linked to the density of subsurface materials and to parameters like compaction, stiffness, strength and rock quality. The higher the density of the subsurface materials the higher the seismic velocity. More compacted, stiffer, denser and stronger material will have a higher seismic velocity. For rock, the seismic velocity is higher when the rock is stronger, less weathered and has a higher quality. If the rock is more weathered, broken, fractured, fissured or karstified then the seismic velocity will be reduced compared to that of intact fresh rock.

Because of the above relationship, the seismic refraction method and seismic velocities are suitable to investigate ground where the layers get denser, more compacted and stronger with depth. A disadvantage is that some materials may have the same seismic velocity: Very stiff to hard or very dense highly consolidated overburden and a weathered rock can have the same seismic velocity range (as is the case in the layer 3 below).

The modelled seismic data has created the following layered ground model:

Layer 1 on land has seismic velocities of 200 - 400m/s. This overburden would be made ground and soil with a soft or loose stiffness or compaction.

Layer 1 within the lake has a seismic refraction velocity of 1450m/s. This is the velocity within water and indicates a saturated layer and is not indicative of stiffness or compaction of the material itself.

Layer 2 was modelled with a velocity range of 700 - 1200m/s. The velocity indicates overburden material with firm to stiff or medium dense to dense strength or compaction. This layer is only modelled at the Lough Talt site.

Layer 3 velocities of 1700 - 2200m/s indicates overburden with very stiff to hard or very dense strength or compaction or a weathered rock with poor to fair rock quality.

Layer 4 velocities of >4300m/s indicate a rock layer with good rock quality.

3.3 Interpretation of Resistivity and Seismic Refraction

Tables 2a, 2b and 2c summarises the interpretations for the three separate areas. The stiffness or compaction of overburden and the rock strength or quality have been estimated from the seismic velocity. The estimation of the excavatability for the bedrock has been made according to the caterpillar chart published in Reynolds (1997). The geotechnical assessment for rippability will have to take factors like rock type and jointing into account and the estimation in this report is solely based on the seismic velocities. Interpretations of rock types have considered the information available form online GSI geological maps as well as the results from the geophysical survey.

Interpreted cross sections are shown in Figures 1b, 2b & 3b. The interpretation has been made from all available information. For overburden layers and the top of the rock the seismic refraction data has been used as seismic refraction is the best method to delineate layer boundaries (denoted by numbers in the following table). The resistivity model values have been used to delineate overburden material and rock types (Denoted by letters in the following table). Resistivity data is better suited to show overburden material, rock types and features within the rock while seismic refraction velocities are indicating the change of compaction, stiffness or rock quality with depth. Where the resistivities have been disturbed, the interpretation relies on the seismic refraction models only and descriptions of rock types are not given.

Layer 4a was used where the resistivity was affected by metal and where the rock has been defined only by the seismic refraction.

Table 2a: Summary of Interpretation (Lisglennon WTP)

Layer	General Seismic Velocity Range (m/sec)	General Resistivity Range (Ωm)	Stiffness or Compaction or Rock Quality	Interpretation	Estimated Excavation Method
1b	200 - 400	Any	Soft or loose	Soil or Made Ground	Diggable
3	1700 - 2200	Any	Very stiff to hard or very dense or poor to fair rock	Overburden or Weathered Rock	Diggable
4a	>4000	N/A	Good rock	Rock	Breaking & Blasting
4b	>4000	<700	Good rock	Muddy or argillaceous Limestone or Karstified Limestone	Breaking & Blasting
4c	>4000	>700	Good rock	Clean Limestone	Breaking & Blasting

Table 2b: Summary of Interpretation (Wherrew Intake Pump Station)

Layer	General Seismic Velocity Range (m/sec)	General Resistivity Range (Ωm)	Stiffness or Compaction or Rock Quality	Interpretation	Estimated Excavation Method
1a	1450	<125	Loose	Lake Sediments	Diggable
3	1700 - 2200	Any	Very stiff to hard or very dense or poor to fair rock	Overburden or Weathered Rock	Diggable
4a	>4000	N/A	Good rock	Rock	Breaking & Blasting
4c	>4000	>700	Good rock	Clean Limestone	Breaking & Blasting

Table 2c: Summary of Interpretation (Lough Talt WwTP)

Layer	General Seismic Velocity Range (m/sec)	General Resistivity Range (Ωm)	Stiffness or Compaction or Rock Quality	Interpretation	Estimated Excavation Method
1b	200 - 400	Any	Soft or loose	Soil or Made Ground	Diggable
2	700 - 1200	Any	Firm to stiff or medium dense to dense	Overburden	Diggable
3	1700 - 2200	Any	Very stiff to hard or very dense or poor to fair rock	Overburden or Weathered Rock	Diggable
4a	>4000	N/A	Good	Rock	Breaking & Blasting
4d	>4000	>1000	Good	Muddy Schist	Breaking & Blasting
4e	>4000	>1000	Good	Pebbly Schist	Breaking & Blasting

4. CONCLUSIONS

The following conclusions are made:

- The geophysical surveys carried out for the Ballina RWSS Upgrade Extension to Lough Talt Project consisted of 2D-Resistivity (ERT) and Seismic Refraction (p-wave) surveying across three separate locations across a wide area.
- At the **Lisglennon WTP**, the survey was carried out in an area covering approx. 13.5Ha within the existing WTP and adjacent agricultural land.
- The seismic refraction data was modelled with three layers. The good rock layer was divided into three interpretation layers, one where the 2D-Resistivity data was used because it was affected by metal (Layer 4a) and two using the results from the 2D-Resistivity data to subdivide the rock (Layers 4b and 4c).
- Layer 1b is described as soft or loose soil or made ground. This layer has a thickness of up to 2.5m but is generally closer to 1m in thickness.
- Layer 3 is interpreted as very stiff to hard or very dense overburden or poor to fair rock. The thickness of this layer ranges from 0.5 – 5m.
- Layer 4 is described as good rock. Along line R3 and from 0 – 75m along line R4 and 140 – 240m along line R1, the 2D-Resistivity data was affected by metal associated with pipes or buildings or structures and the rock in this area is described as Good Rock (Layer 4a).
- The rest of the rock layer is divided into argillaceous or muddy limestone (Layer 4b) or good limestone (Layer 4c). The lower resistivities within Layer 4b could also indicate karstfication of limestone.
- Layer 4c is more prominent across the area while Layer 4b becomes more prevalent in the east along line R5.
- The depth to the top of the good rock layer ranges from 1 – 6m bgl.
- At the **Wherrew Intake Pump Station**, surveying was carried out along a line extending out from the pump station into the lake.
- The data was modelled with a total of three layers.
- Layer 1a is described as loose lake sediments. This layer has a thickness of 1 – 3m along the survey line.
- Layer 3 is interpreted as very stiff to hard or very dense overburden or poor to fair rock. This layer not present for the first 90m near the pump station. From 90m along the survey line, this layer extends in thickness up to 5m.

- Layer 4 is interpreted as the good rock layer. Where 2D-Resistivity has been carried out, this layer is described as good limestone and where there is no 2D-Resistivity it is described as good rock.
- The depth to the top of the good rock layer ranges from 1 – 8m bgl and is shallowest close to the Pump Station and becomes deeper into the lake.
- The survey at the **Lough Talt WwTP** consisted of approx. 580m along the road to the treatment plant and surveying in an area of approx. 2.4Ha within the treatment plant.
- The geology is more complex here which is clear from the online geological mapping of the area.
- A number of faults are interpreted from the data, as most of these faults are marked only on one line, the direction of faulting is not defined.
- The Regional fault directions are WNW-ESE and NE-SW.
- The seismic refraction data has been modelled with a total of four layers. The rock layer has been subdivide using the 2D-Resistivty data to give two generally rock types as well as a third layer where the 2D-Resistivty data was disturbed by metal in the ground.
- Layer 1b is described as soft or loose soil or made ground. This layer has a thickness of less than 1m along the lines.
- Layer 2 is described as firm to stiff or medium dense overburden. This layer is between 1 – 7m in thickness across much of the area but extends to 14m in thickness at the end of line R2 and the start of line R7 in the southwest corner of the treatment plant.
- Layer 3 only modelled along the southern side of the treatment plant along line R7. This layer is interpreted as very stiff to hard or very dense overburden or poor to fair rock and has a thickness of 1 – 7m.
- The depth to the top of the good rock layer (Layer 4) varies greatly across the area. Outcrop is visible at the start of line R6 in the NW of the treatment plant.
- The depth to the top of good rock ranges from 1 – 8m across much of the area but extends to approx. 17m bgl in the SW corner of the treatment plant at the end of line R2 and the start of line R7.
- This change in rock depths is likely related to fault or fracture zone in that area.
- The rock types are described as good muddy shist or good pebbly shist based on the 2D-Resistivty results.
- It is recommended to carry out direct ground investigations targeting possible karstified limeston at the Lisglennon WTP and possible fault or fracture zones at the Lough Talt WwTP.

- The interpretation presented here will be reviewed and the report finalised after the direct ground investigation data becomes available.

5. REFERENCES

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2. **Eurocode, 2007.** EN 1997-2:2007. Eurocode 7. Part 2 Ground Investigation and Testing 2007

3. **GSEG, 2002.** Geophysics in Engineering Investigations. Geological Society Engineering Geology Special Publication 19, London, 2002

4. **GSI, 2024.** Online Geological Map of Ireland. Geological Survey of Ireland 2024

5. **Milsom, 1989.** Field Geophysics. John Wiley and Sons, 1989

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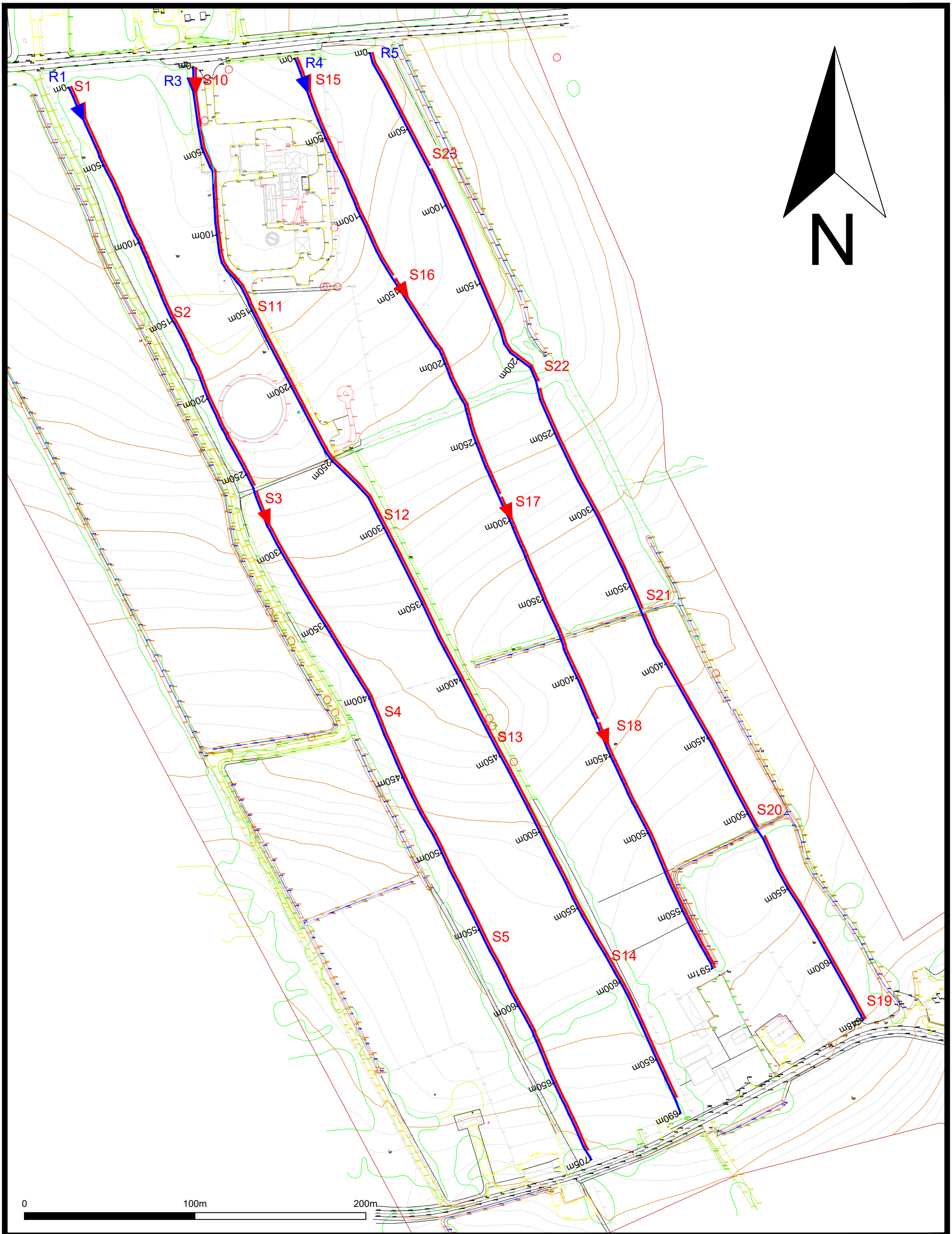
7. **Weaver, 1975.** Geological Factors significant in the Assessment of Rippability, 1975

Table 1: Geophysical Survey Locations and Acquisition Parameters

2D-Resistivity (ERT) Survey				
Site	**Line**	**Electrode Spacing (m)**	**Length (m)**	**Display direction**
Lisglennon	R1	3	705	NW-SE
Road at Lough Talt	R2	3	573	N-S
Lisglennon	R3	3	690	NW-SE
Lough Conn	R101	5	155	N-S
Lisglennon	R4	3	591	NW-SE
Lisglennon	R5	3	648	NW-SE
Lough Talt	R6	3	381	NW-SE
Lough Talt	R7	3	285	NW-SE
		SUM	**4028**	
Seismic Refraction Survey				
Site	**Line**	**Geophone Spacing (m)**	**Length (m)**	**Display direction**
Lisglennon	S1	2	144	NW-SE
Lisglennon	S2	2	112	NW-SE
Lisglennon	S3	2	144	NW-SE
Lisglennon	S4	2	144	NW-SE
Lisglennon	S5	2	142	NW-SE
Road at Lough Talt	S6	2	144	NW-SE
Road at Lough Talt	S7	2	144	N-S
Road at Lough Talt	S8	2	144	N-S
Road at Lough Talt	S9	2	142	N-S
Lisglennon	S10	2	144	NW-SE
Lisglennon	S11	2	144	NW-SE
Lisglennon	S12	2	144	NW-SE
Lisglennon	S13	2	144	NW-SE
Lisglennon	S14	2	94	NW-SE
Lough Conn	S101	3.13	72	N-S
Lough Conn	S102	3.13	72	N-S

Table 1: Geophysical Survey Locations and Acquisition Parameters

Lough Conn	S103	3.13	72	N-S
Lisglennon	S15	2	144	NW-SE
Lisglennon	S16	2	144	NW-SE
Lisglennon	S17	2	144	NW-SE
Lisglennon	S18	2	160	NW-SE
Lisglennon	S19	2	144	NW-SE
Lisglennon	S20	2	144	NW-SE
Lisglennon	S21	2	144	NW-SE
Lisglennon	S22	2	144	NW-SE
Lisglennon	S23	2	74	NW-SE
Lough Talt	S24	2	144	NW-SE
Lough Talt	S25	2	144	NW-SE
Lough Talt	S26	2	94	NW-SE
Lough Talt	S27	2	70	NW-SE
Lough Talt	S28	2	144	NW-SE
Lough Talt	S29	2	70	NW-SE
		SUM	**4054**	



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CLIENT	Irish Drilling Ltd.
PROJECT	Lough Talt, County Mayo Geophysical Survey
TITLE	Map 1: Geophysical Survey Location Map Lisglennon WTP

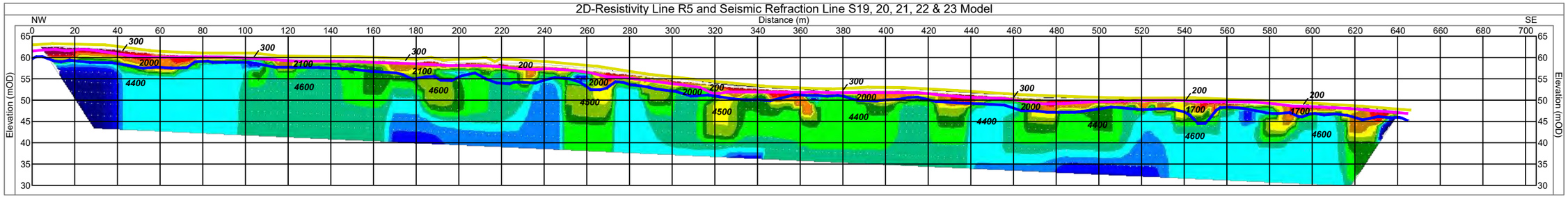
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PROJECT:	6833
DRAWN:	JC
DATE:	17/12/2024
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

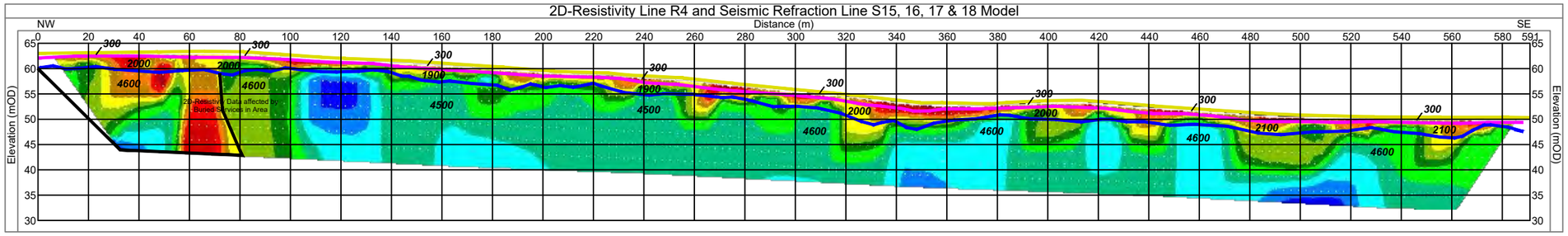
Geophysical Survey Locations:

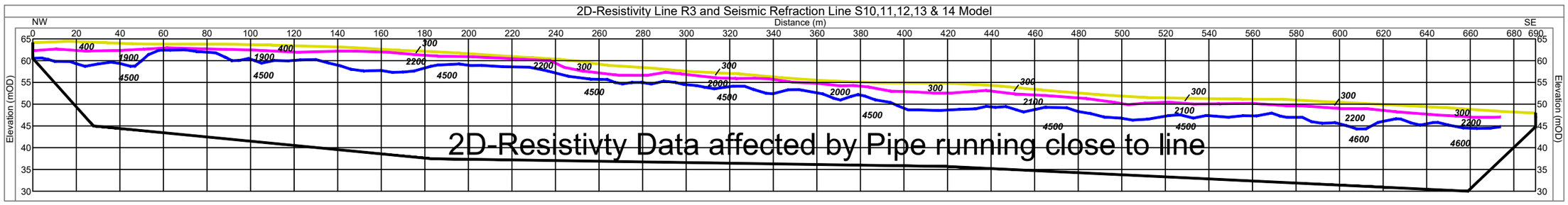
R2 — 2D-Resistivity Line

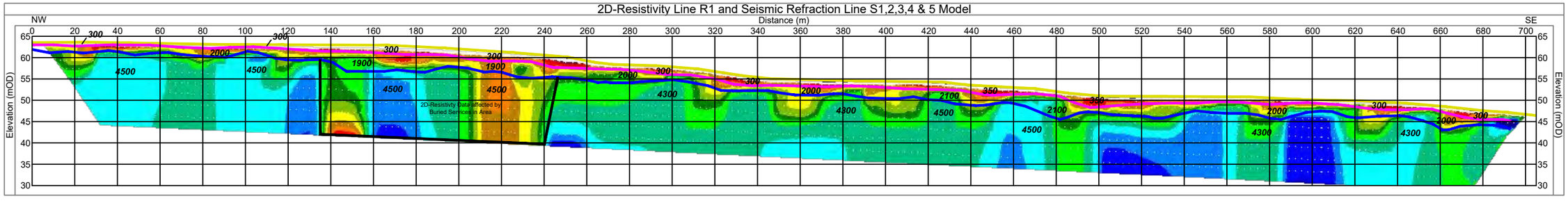
S1 — Seismic Refraction Line

Locations are in Irish Transverse Mercator (ITM), Elevations are in mOD (Malin Head)









Drawn as "Virtual stack" looking from SW

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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 1a: Models of Geophysical Survey at Lisglennon WTP

SCALE:	1:2000 @ A3, VE x 2
PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Layers from Seismic Refraction Model:

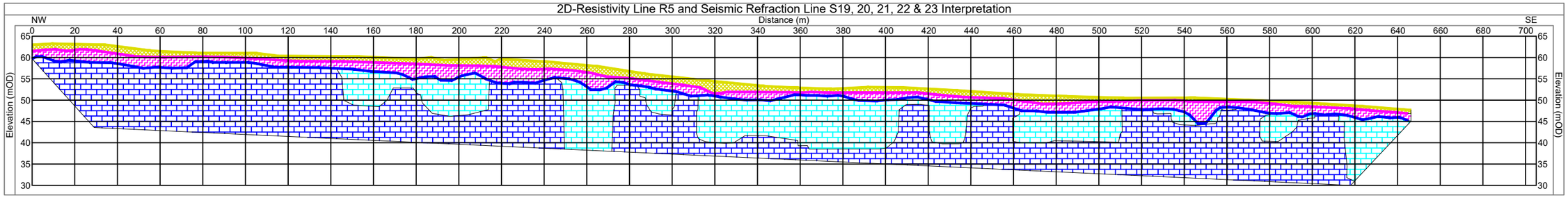
- Ground Surface/Top of Layer 1b (200 - 400 m/s)
- Top of Layer 2 (700 - 1200 m/s)
- Top of Layer 3 (1700 - 2200 m/s)
- Top of Layer 4 (4000 - 4600 m/s)
- **1800** Seismic Velocity in m/s

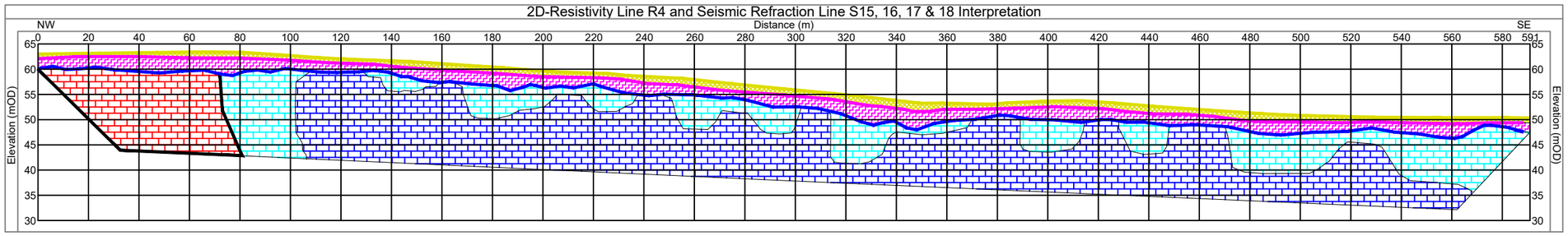
2D-Resistivity Model Values:

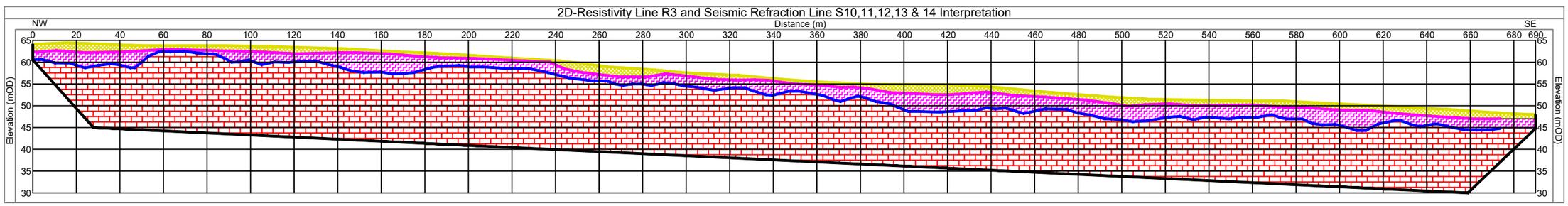
Resistivities (Ohmm)

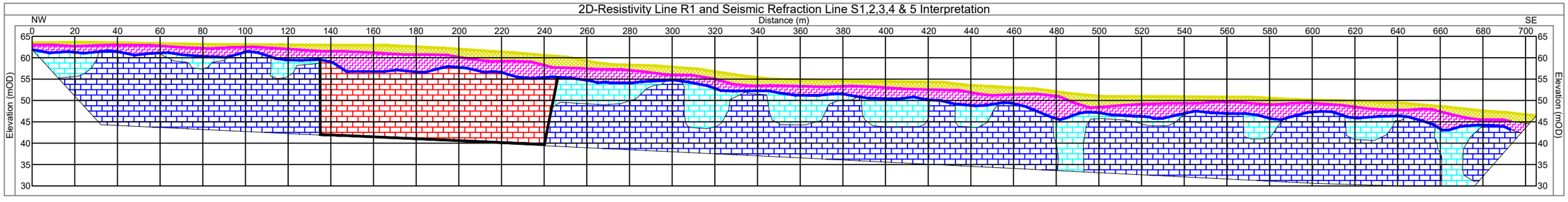
31.2 | 62.5 | 125 | 250 | 500 | 1000 | 2000 | 4000

Data affected by buried services









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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 1b: Interp. of Geophysical Survey at Lisglennon WTP

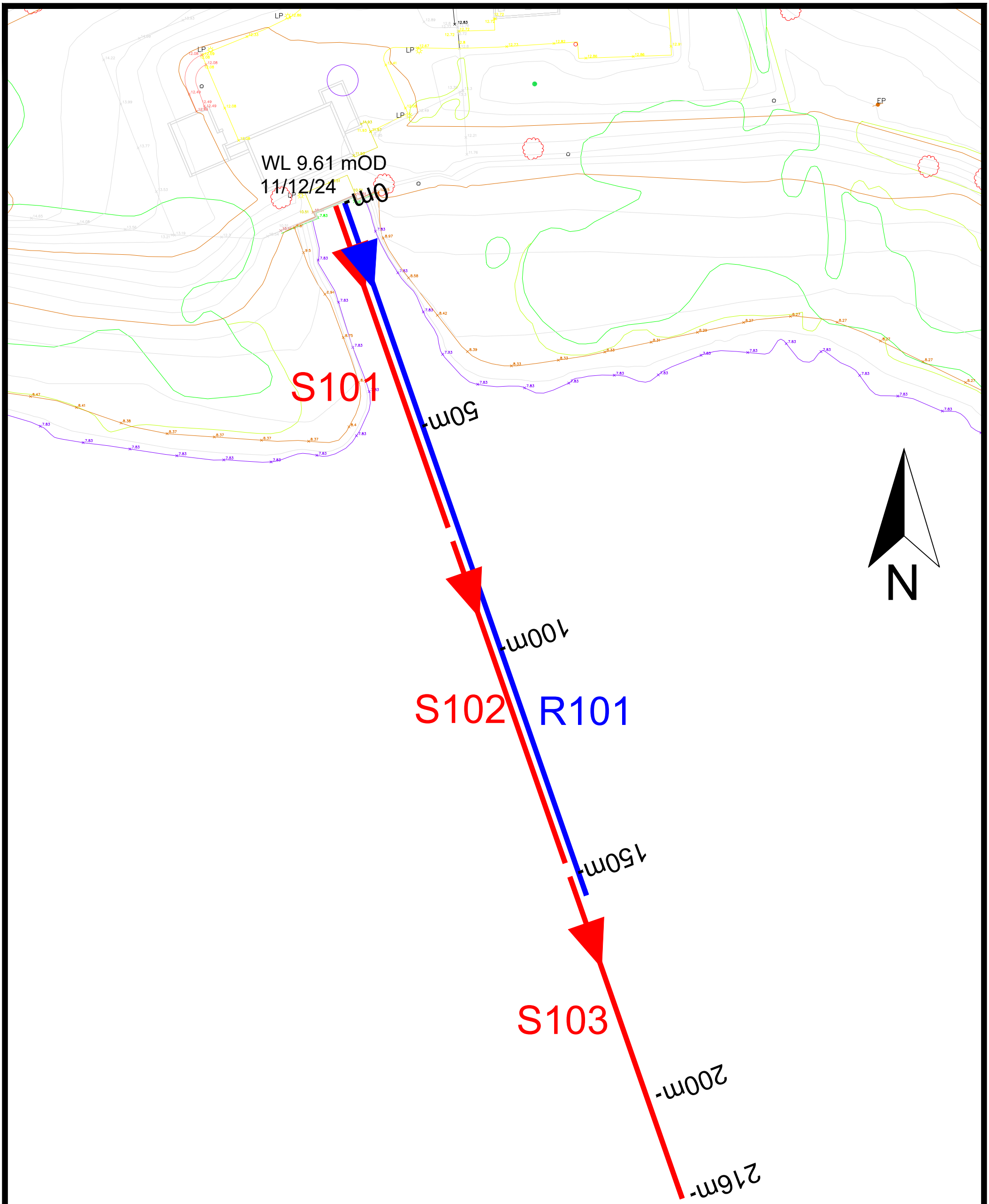
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PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Interpretation Figures:

- 1b Soft or loose Made Ground or Soil
- 3 Very Stiff to Hard or Very Dense Overburden or Poor to Fair Rock
- 4a Good Rock
- 4b Good Muddy or Argillaceous limestone or karstified limestone

Interpretation Figures:

- 4c Good Clean Limestone
- Data affected by buried services



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CLIENT	Irish Drilling Ltd.
PROJECT	Lough Talt, County Mayo Geophysical Survey
TITLE	Map 2: Geophysical Survey Location Map Wherrew Intake PS

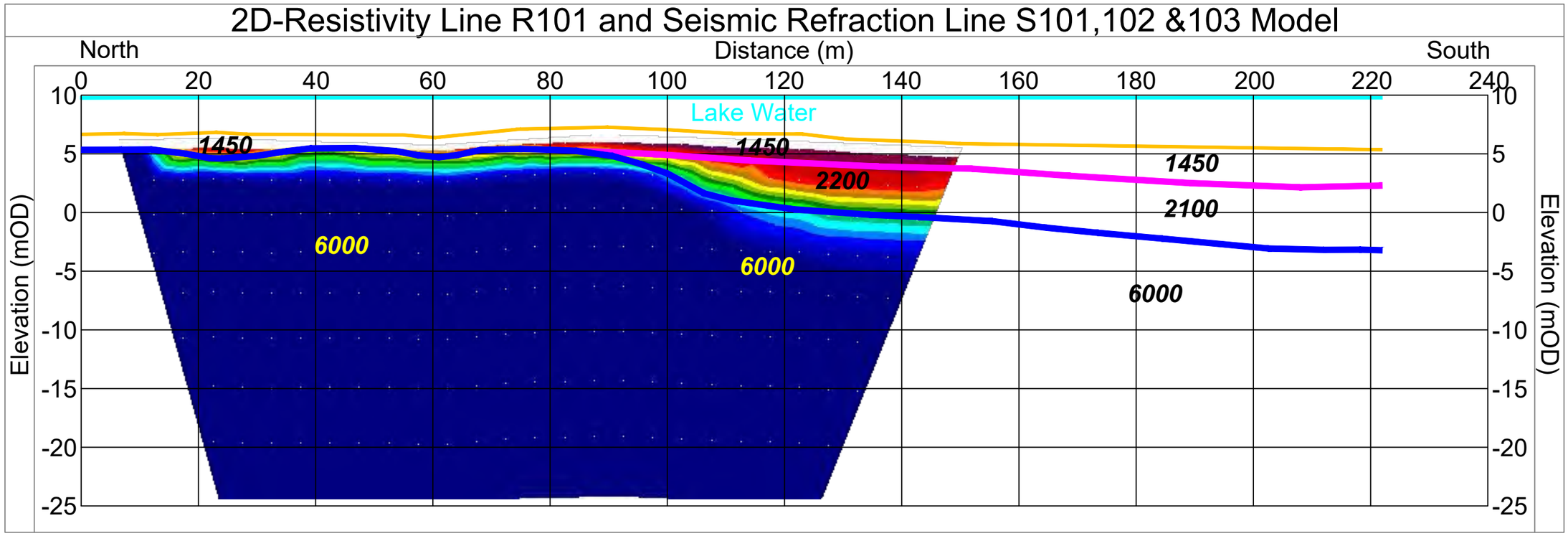
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DATE:	17/12/2024
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Geophysical Survey Locations:

R2	2D-Resistivity Line
S1	Seismic Refraction Line

Locations are in Irish Transverse Mercator (ITM), Elevations are in mOD (Malin Head)

2D-Resistivity Line R101 and Seismic Refraction Line S101,102 &103 Model



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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 2a: Models of Geophysical Survey at Wherrew Intake Pump St.

SCALE:	1:750 @ A3, VE x 2
PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Layers from Seismic Refraction Model:

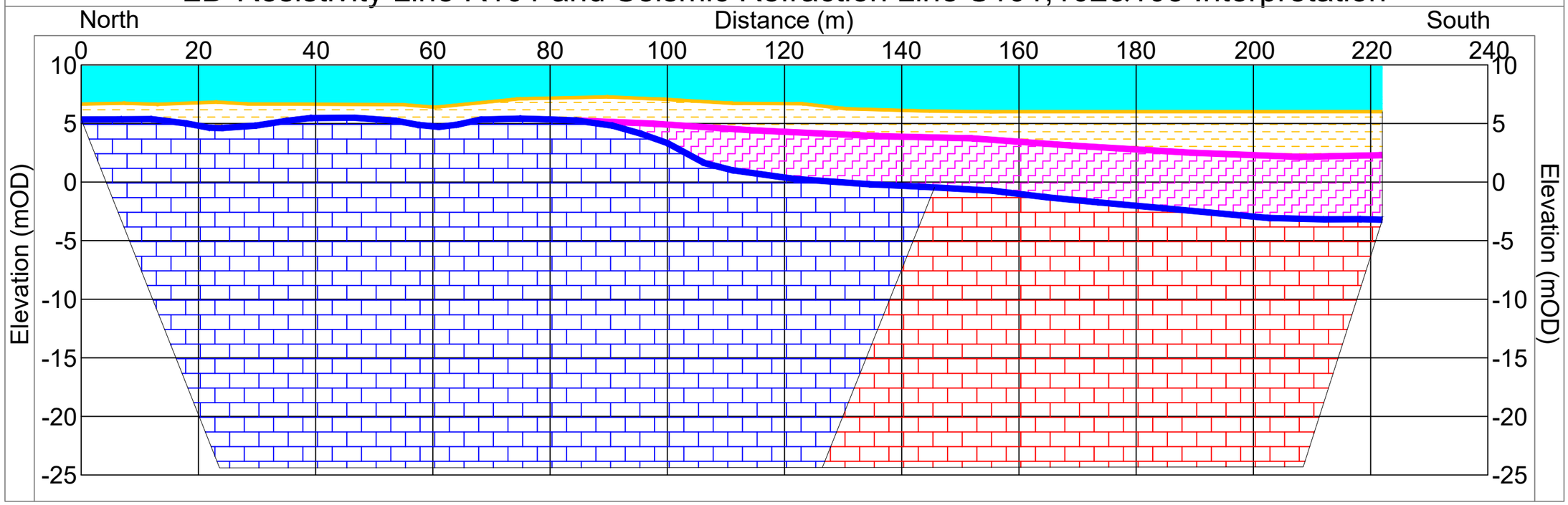
Bottom of the lake/Top of Layer 1a (1450 m/s)
Top of Layer 3 (1700 - 2200 m/s)
Top of Layer 4 (4000 - 4600 m/s)
1800 Seismic Velocity in m/s

2D-Resistivity Model Values:

Resistivities (Ohmm)

31.2 62.5 125 250 500 1000 2000 4000

2D-Resistivity Line R101 and Seismic Refraction Line S101,102&103 Interpretation



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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 2b: Interp. of Geophysical Survey at Wherrew Intake Pump St.

SCALE:	1:750 @ A3, VE x 2
PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Interpretation Figures:

- Lake water
- 1a Loose Lake Sediments
- 3 Very Stiff to Hard or Very Dense Overburden or Poor to Fair Rock
- 4a Good Rock
- 4c Good Limestone

0 100m 200m

N

S9 R2 S8 S7 S6 R6 S24 R7 S27 S25 S28 S26 S29

0m 50m 100m 150m 200m 250m 300m 350m 400m 450m 500m 550m 573m 150m 200m 250m 300m 350m 381m 150m 200m 250m 284m

Lough Talt River

Lough Talt River

Lough Hoe River

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CLIENT	Irish Drilling Ltd.
PROJECT	Lough Talt, County Mayo Geophysical Survey
TITLE	Map 3: Geophysical Survey Location Map Lough Talt WwTP

SCALE:	1:2,000 @ A3
PROJECT:	6833
DRAWN:	JC
DATE:	17/12/2024
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Geophysical Survey Locations:

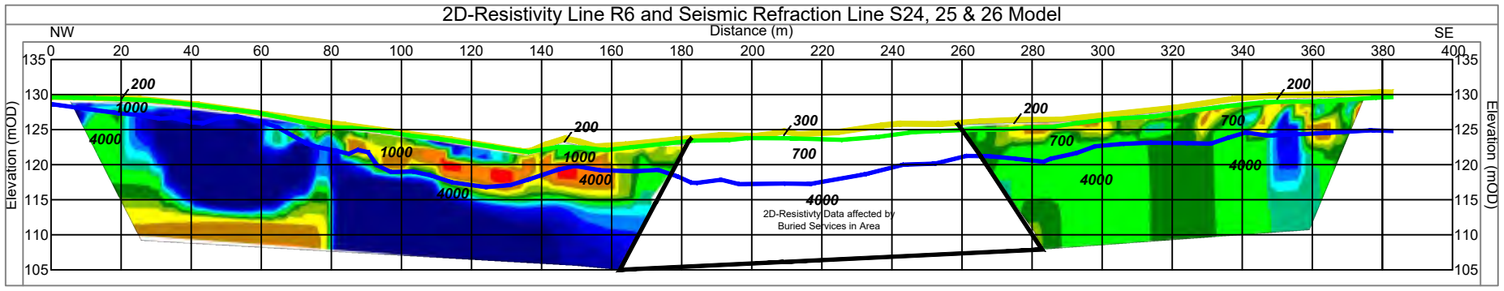
R2 — 2D-Resistivity Line

S1 — Seismic Refraction Line

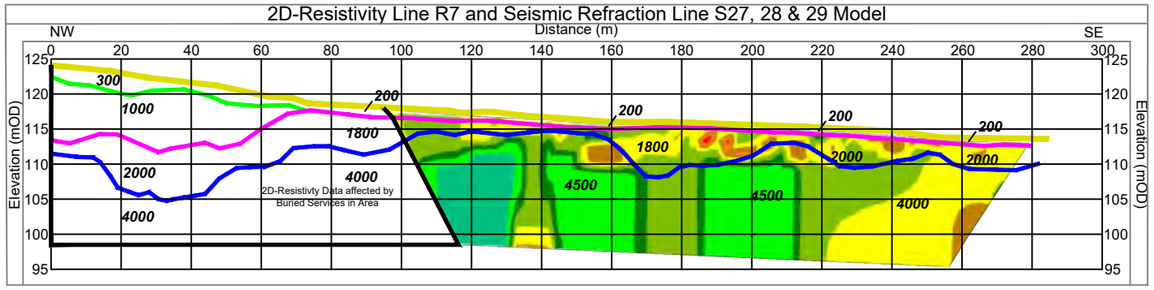
Possible Fault or Fracture Zone

Locations are in Irish Transverse Mercator (ITM), Elevations are in mOD (Malin Head)

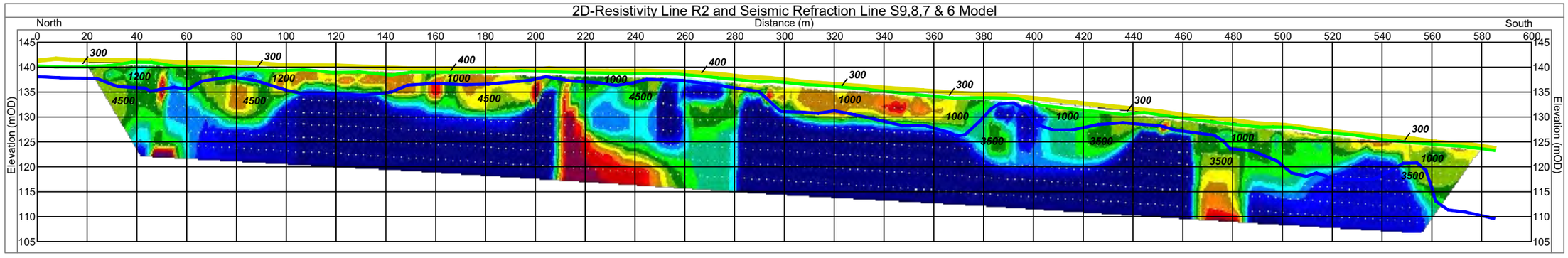
2D-Resistivity Line R6 and Seismic Refraction Line S24, 25 & 26 Model



2D-Resistivity Line R7 and Seismic Refraction Line S27, 28 & 29 Model



2D-Resistivity Line R2 and Seismic Refraction Line S9,8,7 & 6 Model



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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 3a: Models of Geophysical Survey at Lough Talt WwTP

SCALE:	1:1750 @ A3, VE x 2
PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Layers from Seismic Refraction Model:

- Ground Surface/Top of Layer 1b (200 - 400 m/s)
- Top of Layer 2 (700 - 1200 m/s)
- Top of Layer 3 (1700 - 2200 m/s)
- Top of Layer 4 (4000 - 4600 m/s)
- 1800 Seismic Velocity in m/s

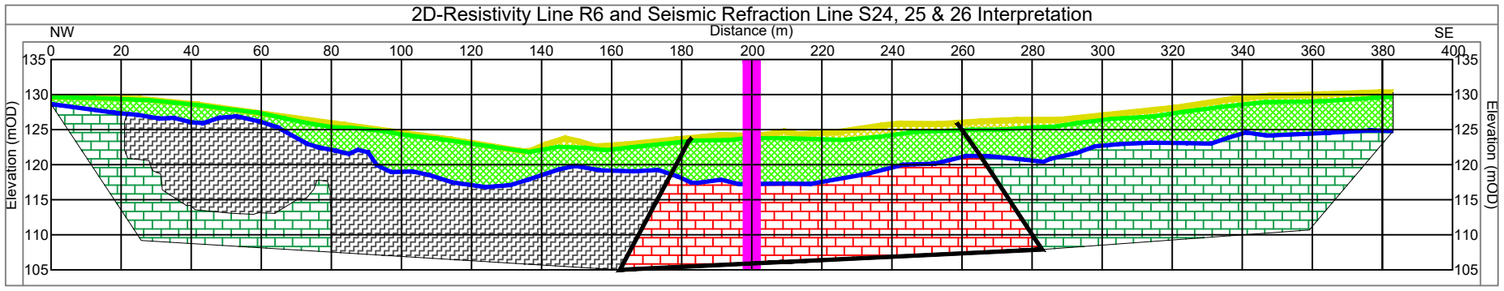
2D-Resistivity Model Values:

Resistivities (Ohmm)

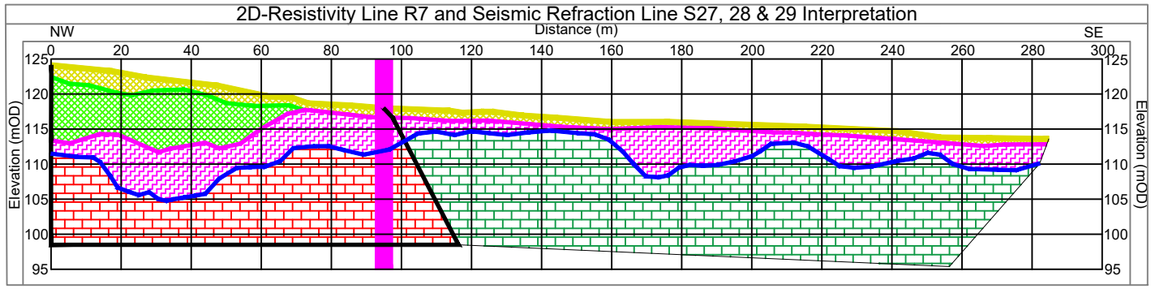
31.2 | 62.5 | 125 | 250 | 500 | 1000 | 2000 | 4000

Data affected by buried services

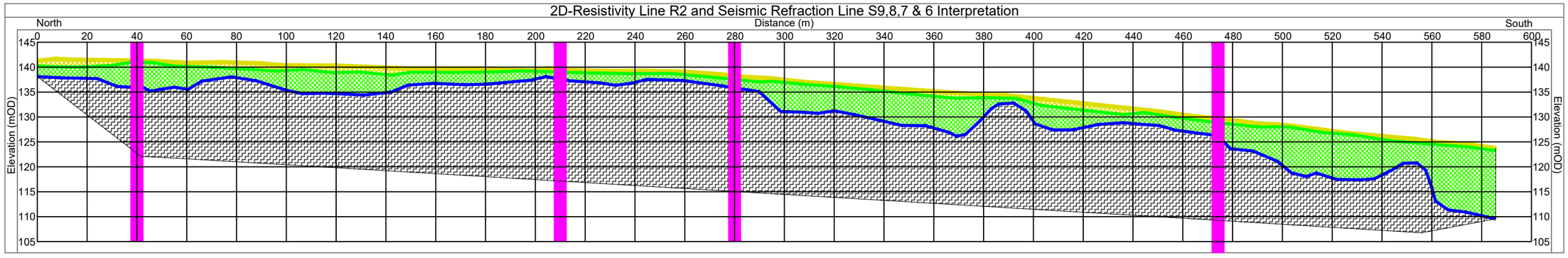
2D-Resistivity Line R6 and Seismic Refraction Line S24, 25 & 26 Interpretation



2D-Resistivity Line R7 and Seismic Refraction Line S27, 28 & 29 Interpretation



2D-Resistivity Line R2 and Seismic Refraction Line S9,8,7 & 6 Interpretation



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CLIENT	Irish Drilling Ltd
PROJECT	Lough Talt, Co. Mayo Geophysical Survey
TITLE	Figure 3b: Interp. of Geophysical Survey at Lough Talt WwTP

SCALE:	1:1750 @ A3, VE x 2
PROJECT:	6833
DRAWN:	JC
DATE:	30/01/2025
MGX FILE:	6833d_Drawings.dwg
STATUS:	Draft

Interpretation Figures:

- 1b Soft or loose Made Ground or Soil
- 2 Firm to Stiff or Medium dense to Dense Overburden
- 3 Very Stiff to Hard or Very Dense Overburden or Poor to Fair Rock
- 4a Good Rock
- 4d Good Muddy Schist
- 4e Good pebbly Shcist

- Possible Fault or Fracture Zone
- Data affected by buried services

Appendix 11
Asbestos Refurbishment Survey

ASBESTOS REFURBISHMENT SURVEY REPORT

Of

Ballina Lough Talt WSZ Upgrade

On behalf of

Irish Drilling Ltd

5c Fingal Bay Business Park,
Harry Reynolds Road,
Balbriggan, Co. Dublin
Tel: (01) 6905907
Fax: (01) 8020439
Email: info@ohss.ie
Website: www.ohss.ie

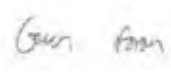
Directors: Deirdre Corry, Paul Foran **Company Reg no:** 354843

Project Number

42084

DOCUMENT CONTROL

Client	Irish Drilling Ltd
Project Title	42084 Ballina Lough Talt WSZ Upgrade - Asbestos Survey
Document Title	Asbestos Refurbishment Report
Report No.	42084

Rev	Status	Author(s)	Revision History	Approved By	Issue Date
D01	Final	 Gavin Foran	Initial Release to Client	 Paul Foran	13/02/2025
D02	Final	Gavin Foran	Amended 25/03/25		25/03/2025

Contents

1. Executive summary
2. Scope of the project
3. General site and survey information
4. Conclusions and actions
5. Survey results

1 EXECUTIVE SUMMARY

OHSS carried out an asbestos survey to HSG264 requirements for the purposes of identifying asbestos containing materials in the premises(s) prior to the refurbishment of the area. It should be noted that this survey only includes areas within the scope of the survey and should not be read as an extensive assessment of all possible asbestos containing materials (ACMs) in the premises.

The findings of this survey are contained within the summary tables and risk assessment in the results section of this report.

Summary of Findings

Wherrew Intake PS:

- Asbestos crocidolite gaskets were identified in the main room. The materials are damaged and debris is present beneath the pipework. These should be removed as soon as possible with access to the area restricted until the removal and environmental clean of the area is completed. An air test and visual inspection should be carried out after their removal to ensure that the area is safe for reoccupation. Actioned by Uisce Eireann on 20/03/25 – The gaskets are know encapsulated and air monitoring was conducted.

- Black and white floor tiles were identified in the store room. These should be removed if the refurbishment works are likely to disturb them.

Asbestos slates & debris:

- Identified on the roofs, floor of the valve houses and surrounding areas. The slate debris on the floor and areas surrounding the valve houses should be removed by a competent contractor trained in asbestos.

- Identified on the roofs of Lisglennon Dewatering Building, Lisglennon Raw Water PS, Lisglennon WTP.

Asbestos Roofing Felt:

- Identified on the roof to Lisglennon WTP

A full summary of materials identified is located in the risk assessment section of this report.

The survey undertaken complies with the legal duty to identify the presence of asbestos containing materials and carryout a risk assessment in respect of these materials at the

premises. The risk assessment will form part of the overall safety management system for the contractor carrying out any asbestos works. The results of the risk assessment must be communicated to the employees and made available to them. This report may be used by the Project Supervisor for Design Process and the designers to highlight the presence of asbestos containing materials found in the buildings.

Where following the refurbishment work, asbestos containing materials remain in situ it may be necessary to undertake a management survey of the areas.

While every effort has been taken to ensure the accuracy of this report OHSS do not accept responsibility for any omissions or areas of the building not addressed in the report. This report is intended to assist in reducing the possibility of accidents and ill health by bringing to the client's attention identified asbestos containing materials. Within the constraints of time and resources every effort has been made to identify ACM's. It is not implied that all other hazards are under control at the time of inspections.

THIS REPORT SHOULD BE READ IN ITS ENTIRETY AND SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE APPROVAL OF OHSS AND THE CLIENT.

Questions arising from the survey report should be directed, in the first instance, to the author of this report, who will clarify any technical issues raised.

Further information on previous surveys should be sought from the client.

1.1.1 ABBREVIATIONS

Throughout the report the following terms and abbreviations may be used:

ACM	Asbestos containing material.
AND	Asbestos not detected.
MMMF	This describes any machine made mineral fibre, fibreglass, Rockwool, ceramic fibres and other such material.
MA	Material Assessment Score as defined in HSG264 relates to the friability of the product. It is used to indicate the level of risk posed by the product
AIB	Asbestos Insulating Board.
AC	Asbestos Cement
Chrysotile	Commonly known as white asbestos.
Amosite	Commonly known as brown asbestos.
Crocidolite	Commonly known as blue asbestos.
Amphibole	Generic name for all asbestos types, excluding Chrysotile.
BOHS	British Occupational Hygiene Society
UKAS	United Kingdom Accreditation Service

2 SCOPE OF WORK

2.1 GENERAL

The scope of the survey included;

OHSS were contracted by Irish Drilling to undertake refurbishment surveys of Wherrew Intake PS, 6 valve houses, Lough Talt WTP, Lisglennon WTP, Lisglennon Raw Water PS and Lisglennon Dewatering Building, Lisglennon Treated Water Contact Tank and Lisglennon Picket Fence Thickener. No extensive damage beneath fixed floor coverings was permitted.

The purpose of the survey is to identify and risk assess asbestos containing materials (ACM's) in the premises or area where planned refurbishment works are to take place. The survey aims to provide sufficient information for designers and the project supervisor for design process to take account of identified asbestos risks. The design team must take account of known locations where ACM's are identified and plan to eliminate the risk or prevent exposure to asbestos during the construction phase. Asbestos is a particular risk within the definitions of "particular risk" in the Safety Health and Welfare at Work (Construction) Regulations 2013 and should be highlighted in the design risk assessments accompanying the Preliminary Safety and Health Plan.

The surveyor undertook as far as reasonably practicable to, record the location, extent and product type of any presumed or known ACMs. All areas identified in the survey were inspected and the information recorded on the accessibility, condition and surface treatment of any presumed or known ACMs. The asbestos type was identified either by collecting representative samples of suspect materials for laboratory identification, or by making a presumption based on the product type and its appearance or previous sampling of similar products.

3 GENERAL SITE AND SURVEY INFORMATION

Client Details:	Irish Drilling Ltd
Client Address:	Irish Drilling Ltd Old Galway Road Loughrea Galway
Site Address:	Ballina Lough Talt WSZ Upgrade Project
Commissioned By:	Hugh Cahill
Surveyor:	Gavin Foran
Staff Consulted during the survey	Hugh Cahill, Sean Keane, Kevin Maheady, Enda Commons & Ronan Killen
Date of Survey:	04-02-25
Date of Report:	13-02-25
Description of the Areas Surveyed:	Wherrew Intake PS, 6 valve houses, Lough Talt WTP, Lisglennon WTP, Lisglennon Raw Water PS and Lisglennon Dewatering Building, Lisglennon Treated Water Contact Tank and Lisglennon Picket Fence Thickener.
Excluded Areas:	As per the clients requirements the following areas were not accessed; Fixed floor coverings, Live electrical equipment, areas outside building immediate surroundings and under ground areas.

Survey Methodology:

On-site inspection, bulk sampling and risk assessment were conducted in accordance with OHSS documented in-house work instructions (WI-02 & WI-03). OHSS is certified by NQA and meets the requirements of International Standard BS EN ISO/IEC 9001.

Analysis of asbestos fibres in bulk materials is carried out at the OHSS laboratory and meets the requirements of International Standard BS EN ISO/IEC 17025 for the sampling and analysis of asbestos fibres in bulk materials.

The surveyor conducted a systematic inspection of the nominated areas. Where access for sampling purposes was not possible, a visual assessment has been made if possible. For similar/repetitive elements, a representative bulk sampling protocol has been adopted following visual examination and assessment.

Bulk Samples were obtained using fibre suppression techniques in order to minimise respirable fibre release. Each sample was double bagged, uniquely labelled on site and then returned to the laboratory for analysis using plane and polarised light microscopy and dispersion staining techniques as defined in UK HSE Guidelines HSG248 and the OHSS documented in-house work instructions.

The results of the survey together with the laboratory bulk sample analysis records are given in further sections to this report.

The Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010 allows materials to be ‘presumed’ to contain asbestos. Therefore in the asbestos survey, materials can be presumed to contain asbestos.

There are two levels of ‘presumption’:

1. **Strongly presumed**: in this case the material looks as if it is an ACM, or that it might contain asbestos. This conclusion can be reached through visual inspection alone by an experienced, well-trained surveyor, familiar with the

range of asbestos products. Examples of ‘strong presumption’ are:

- where laboratory analysis has confirmed the presence of asbestos in a similar construction material;
- materials in which asbestos is known to have been commonly used in the manufactured product at the time of installation (eg corrugated cement roof and wall sheeting, cement gutters and drainpipes, cement water tanks, ceiling tiles, insulating boards);
- materials which have the appearance of asbestos but no sample has been taken, eg thermal insulation on a pipe where fibres are clearly visible
- where the laboratory has sampled the same material in a different location and subsequent laboratory analysis has found that it does not contain asbestos.

2. **Presumed**: is the ‘default’ situation where a material is **presumed** to contain asbestos because there is insufficient evidence (eg no analysis) to confirm that it is asbestos free, or where a surveyor decides that it is easier under the planned management arrangements to presume certain materials contain asbestos. Many non-asbestos materials will also be presumed to contain asbestos using this system.

   There is a further default situation where materials must be **presumed** to contain asbestos. **The default applies to areas which cannot be accessed or inspected. In this situation any area not accessed or inspected must be presumed to contain asbestos, unless there is strong evidence that it does not.**

The risk assessment process (also known as risk algorithms) designed by HSE, allow asbestos containing materials to be ranked according to a Material Assessment algorithm and the

HSE have related the scores obtained in the Materials Assessment algorithms in HSG 264 to a number of risk categories that may be used to guide the employers as to the best course of action to take to mitigate the risk. These are further explained in our risk assessment sheets contained within this report.

These scores can then be ranked and so decisions can be taken as to what actions are required to control the risks from asbestos containing materials during refurbishment.

4 Conclusions and Actions

Where asbestos containing materials were identified in the survey recommendations are provided in the asbestos register and risk assessments. A further explanation of the terms used in the management of asbestos containing materials risks are given below.

Asbestos is a known human carcinogen (cancer causing agent) that was used extensively in Ireland up to 2000 when it was finally banned from use. Asbestos fibres may cause fatal lung disease when inhaled. These diseases are not sudden and may take many years to develop from the first exposures. **Asbestos containing materials constitute a particular risk within the meaning of the Safety Health and Welfare at Work (Construction) Regulations 2013 and should be addressed in the Preliminary Health and Safety Plan by the designers and the Project Supervisor Design Process.**

Asbestos is a fibrous material and has excellent insulating and fire resistant properties. Asbestos was seldom used as pure asbestos fibres but rather combined with other products to add strength and stability or fire resistance to them. Asbestos may be found in products from a few percent up to 90% depending on the type of material.

Asbestos is a hazard to humans but the risks posed by asbestos containing materials (ACM) will depend on the type of ACM found. In simple terms where asbestos products are flaky and would crumble under hand pressure quite easily they are termed friable. The more friable the ACM the more risk there is to the individual handling the material. This is reflected in the material assessment scores in the risk assessments

No person is permitted to work with asbestos containing materials unless they have received training and have taken all reasonable steps to prevent exposure to asbestos. The requirement for training is detailed in Regulation 17 of the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations, 2006-2010

4.1 Refurbishment Options

ACM are found in many industrial buildings, hospitals, schools and homes. These materials were installed before 2000 with the peak period for installation occurring from the 1970's to the late 1980's. ACM's installed some 20-30 years ago will vary in condition depending on the type of product and the use of that product. The Safety health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010 requires a managed approach to asbestos containing materials in workplaces. These regulations require employers to identify the presence of asbestos containing materials and to assess the risk posed to workers by these

ACM's based on the likely work activities and the potential for these work activities to disturb ACM's.

The outcome of these risk assessments are as follows;

1. **Environmental clean**

   Where there is debris from the installed ACM's in the surrounding area it may be recommended that this material is removed by environmentally cleaning the area around the materials. Following removal of the asbestos containing materials a site clearance for re-occupation certificate must be obtained from a competent independent analyst prior to re-occupancy of the area in accordance with **Regulation 15 (10) of the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010.**. The materials can then be managed in place as above.

2. **Remove**

   Where ACM's are found to have reached the end of their serviceable life and the presence of the material in the work area may lead to increased human exposure it may be necessary to remove the ACMs. ACM removal will form part of a construction project and will require careful coordination to be carried out safely. Following removal of the asbestos containing materials a site clearance for re-occupation certificate must be obtained from a competent independent analyst prior to re-occupancy of the area in accordance with **Regulation 15 (10) of the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010.**

3. **Restrict access**

   Where ACM's are found to have reached the end of their serviceable life and the presence of the materials in the work area may lead to increased human exposure it may be necessary to restrict access to areas where the ACMs are located pending removal. Where access is restricted it is advisable to have a permit to work system in place to control all work activities in the area. Removal or encapsulation will be required prior to the area being returned to normal occupancy.

4.2 Materials Assessment Scoring

4.2.1 Asbestos Risk Assessment

Employers are required under the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010 to identify if asbestos containing materials are present in the workplace and to perform a risk assessment. The risk posed by asbestos is determined by the current and potential level of employee exposure to asbestos fibres. The following parameters are used in developing a risk assessment for asbestos containing materials;

4.2.2 Asbestos Type

There are six regulated types of asbestos. The common names associated with some of the asbestos types are shown in brackets below;

- Crocidolite (Blue Asbestos)
- Amosite (Brown Asbestos)
- Actinolite
- Anthophyllite
- Tremolite
- Chrysotile (White Asbestos)

International studies have identified that they have different potential to cause harm. Crocidolite is the most dangerous and Chysotile the least.

4.2.3 Surface Treatment

Surface treatment is a term used to describe how the fibres in the material are protected from release. The safest materials are composites such as cement and plastic where the fibres are contained within a material within a strong matrix. At the other end of the scale are materials

that damage easily and have no protective coating such as sprayed asbestos and boiler lagging.

4.2.4 FRIABILITY

Products that damage easily such as sprayed asbestos are clearly more likely to release fibres than strong materials such as cement. This 'likelihood of fibre release' or crumbliness is commonly referred to as friability. Materials with high friability (such as insulation) are higher risk than those with low friability (such as vinyl floor tiles).

4.2.5 CONDITION

Products which are damaged are more likely to release fibres than those in good condition and are ranked according to the extent of damage observed.

4.3 CALCULATING RISK ASSESSMENTS

The HSE developed a risk assessment process within HSG264 which takes these four factors into account and attributes values to each of the factors allowing you to calculate a material risk assessment.

4.3.1 MATERIAL ASSESSMENT ALGORITHM

The material assessment algorithm is commonly used by most surveying organisations to give an indication of how dangerous a material is. Each of the four risk factors (friability, condition, surface treatment and asbestos type) are attributed a score of between 0 and 3 (see below). These scores are accumulated to give a risk score of between 0 and 12 (where 12 is the highest risk).

When using this algorithm it is commonly accepted that materials can be divided into the following risk groups;

Material Risk Rating		Description
10-12		High risk
7-9		Medium risk
5-6		Low risk
2-4		Very low risk

These are colour coded within our risk assessment as outlined above.

4.3.2 HSG264 Material Assessment Table

Sample Variable	Score	Example of Score
Product type (or debris from product)	1	Asbestos reinforced composites (Plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc)
	2	Asbestos insulation board, mill boards, other low density boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt
	3	Thermal insulation (pipe and boiler lagging), Sprayed Asbestos, loose asbestos, asbestos mattresses and packing
Extent of damage / deterioration	0	Good condition: no visible damage
	1	Low Damage: a few scratches or surface marks; broken edges on boards, tiles etc
	2	Medium damage; significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres
	3	High damage or delamination of materials, sprays or insulation. Visible asbestos debris
Surface Treatment	0	Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles, gaskets
	1	Enclosed sprays and lagging, AIB (with exposed face painted or encapsulated), asbestos cement sheets
	2	Unsealed AIB, or encapsulated lagging and sprays
	3	Unsealed lagging and sprays
Asbestos Type	1	Chrysotile
	2	Amphibole asbestos excluding crocidolite
	3	Crocidolite

4.4 REFERENCES

Safety Health and Welfare at Work Act 2005

Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010

Safety Health and Welfare at Work (Construction) Regulations 2013

HSG264 The Survey Guide, HSE Books

HSG248 The Analysts Guide, HSE Books

HSG247 The Contractors Guide, HSE Books

5 SURVEY RESULTS

Survey Results

Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

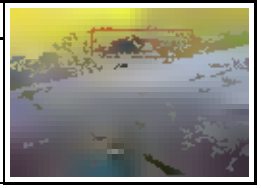
ACM Risk Rigister

The following areas were found to contain ACM's

RA Number	121935	**Location**	Wherrew Intake PS, Main Room, Pipework					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Textiles and gaskets		High Damage	Gasket	Chrysotile & Crocidolite	GFB20250204001	Sample Taken	10	Priority 3 : Manage in Place & Monitor Periodically.



RA Number	118448	**Location**	Lisglesnnon Raw Water PS, Exterior, Ground surrounding buidling					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		High Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	6	Priority 1: Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118379	**Location**	Wherrew Intake PS, Electrical room, Electrics					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	Priority 1 : Investigate prior to disturbing



RA Number	118382	**Location**	Wherrew Intake PS, Electrical room, Electrics					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	Priority 1 : Investigate prior to disturbing



RA Number	118399	**Location**	Valve House 2, Exterior, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		High Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	6	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

ACM Risk Rigister

The following areas were found to contain ACM's

RA Number	118400	**Location**	Valve House 3, Exterior, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		High Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	6	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118403	**Location**	Valve House 3, Valve House, Pipework					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Textiles & Paper		Low Damage	Gasket	Chrysotile	GFB20250204009	Sample Taken	6	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



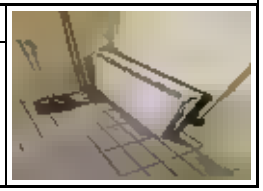
RA Number	118407	**Location**	Valve House 4, Valve House, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		High Damage	Asbestos Cement	Chrysotile	GFB20250204011	Sample Taken	6	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118409	**Location**	Valve House 4, Exterior, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		High Damage	Asbestos Cement	Chrysotile		Sample Taken	6	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118427	**Location**	Lisglesnnon WTP, All areas, Storage heaters					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	Priority 1 : Investigate prior to disturbing



Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

ACM Risk Rigister

The following areas were found to contain ACM's

RA Number	118431	Location	Lisglesnnon WTP, All areas, Electrical panels					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	Priority 1 : Investigate prior to disturbing



RA Number	118434	Location	Lisglesnnon WTP, Electrical room, Electrical panels					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	



RA Number	118436	Location	Lisglesnnon WTP, All areas, Sky lights					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	



RA Number	118444	Location	Lisglesnnon Raw Water PS, Electrical room, Electrical panels					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	



RA Number	118459	Location	Lisglesnnon Dewatering Building, Main room, Edwards & jones machine					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present		Presumed	6	Priority 1 : Investigate prior to disturbing



Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

ACM Risk Rigister

The following areas were found to contain ACM's

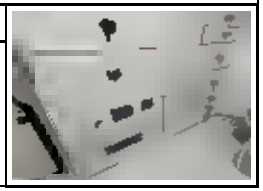
RA Number	118463	**Location**	Lisglesnnon Dewatering Building, Machine Room, Electrics					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present		Presumed	6	Priority 1 : Investigate prior to disturbing



RA Number	118474	**Location**	Lough Talt WTP, All areas, Storage heaters					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present			6	Priority 1 : Investigate prior to disturbing



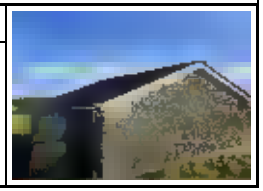
RA Number	118475	**Location**	Lough Talt WTP, Site office, Electrics					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Presumed ACM Present		Presumed	6	Investigate prior to disturbing



RA Number	118389	**Location**	Valve House 1, Valve House, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		Medium Damage	Asbestos Cement	Chrysotile	GFB20250204008	Sample Taken	5	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118396	**Location**	Valve House 2, Valve House, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		Medium Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	5	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



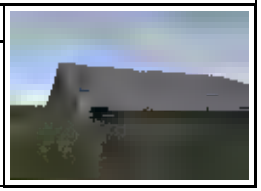
ACM Risk Rigister

The following areas were found to contain ACM's

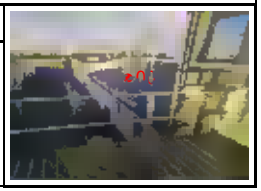
RA Number	118404	Location	Valve House 3, Valve House, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Medium Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	5	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118419	Location	Valve House 6, Valve house, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		Medium Damage	Asbestos Cement	Chrysotile	GFB20250204015	Sample Taken	5	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



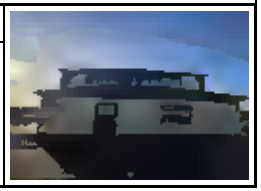
RA Number	118439	Location	Lisglesnnon WTP, Exterior, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile	GFB20250205002	Sample Taken	4	Priority 1:Risk assessment required where work will disturb



RA Number	118447	Location	Lisglesnnon Raw Water PS, Exterior, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile	GFB20250205004	Sample Taken	4	Priority 1:Risk assessment required where work will disturb



RA Number	118456	Location	Lisglesnnon Dewatering Building, Exterior, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	4	Priority 1:Risk assessment required where work will disturb



Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

ACM Risk Rigister

The following areas were found to contain ACM's

RA Number	118457	**Location**	Lisglesnnon Dewatering Building, Exterior, Ground					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile	GFB20250205007	Sample Taken	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118397	**Location**	Valve House 2, Valve House, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile		Sample Taken	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



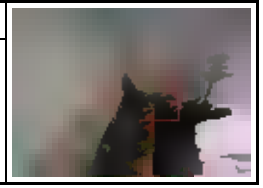
RA Number	118402	**Location**	Valve House 3, Valve House, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118412	**Location**	Valve House 4, Valve house, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		Low Damage	Asbestos Cement	Chrysotile		Sample Taken	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118415	**Location**	Valve House 5, Valve house, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Cement		Low Damage	Asbestos Cement	Chrysotile		Sample Taken	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

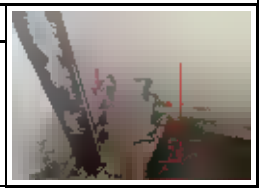


Customer	Irish Drilling Ltd	Type	Refurbishment
Site	Ballina Lough Talt WSZ Upgrade	Report Number	42084
Survey Date	04/02/2025	**Surveyor**	Gavin Foran
Valid Until	04/02/2026	**Review Date**	04/02/2026
Commissioned By	Hugh Cahill	Method	WI-02 & WI-03

ACM Risk Rigister

The following areas were found to contain ACM's

RA Number	118422	**Location**	Valve House 6, Valve house, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos cement (AC)		Low Damage	Asbestos Cement	Chrysotile		Visually Similar to Previously Sampled	4	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118453	**Location**	Lisglesnnon WTP, Exterior, Roof					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Asbestos Bitumen Products		Low Damage	Composite Materials Containing Asbestos	Chrysotile	GFB20250205006	Sample Taken	3	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118386	**Location**	Wherrew Intake PS, Store Room, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Vinyl Floor Tiles & Bitumen		Low Damage	Composite Materials Containing Asbestos	Chrysotile	GFB20250204003	Sample Taken	3	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118387	**Location**	Wherrew Intake PS, Store Room, Floor					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
Vinyl Floor Tiles & Bitumen		Low Damage	Composite Materials Containing Asbestos	Chrysotile	GFB20250204002	Sample Taken	3	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



RA Number	118394	**Location**	Valve House 2, Valve House, Pipework					
Product	**Quantity**	**Condition**	**Treatment**	**Asbestos**	**Sample No.**	**Confirmation**	**MA**	**Recommendations**
				Chrysotile	GFB20250204017	Sample Taken	1	Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.



Asbestos Containing Materials Risk Assessment
Refurbishment
in accordance with HSG264

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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 121935

Building/Area :	Wherrew Intake PS	Sample No. :	GFB20250204001
Room/Section :	Main Room	Confirmation :	Sample Taken
Location :	Pipework	Access :	Full Access
Description :	Gasket	Normal Use :	

Material Risk Assessment : 121935

		Score
Asbestos Type :	Chrysotile & Crocidolite	3
Type Of Product :	Textiles and gaskets	2
Condition :	High Damage	3
Surface Treatment :	Gasket	2
Quantity :		
	Material Assessment Score :	10

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
High Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 3 : Manage in Place & Monitor Periodically.

Gaskets encapsulated by IES Ltd on 20/03/25. Air monitoring after encapsulation indicated results are below the limit of quantification.

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118448

Building/Area :	Lisglesnnon Raw Water PS	Sample No. :	
Room/Section :	Exterior	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Ground surrounding buidling	Access :	Full Access
Description :	Broken slates	Normal Use :	

Material Risk Assessment : 118448

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	High Damage	3
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	6

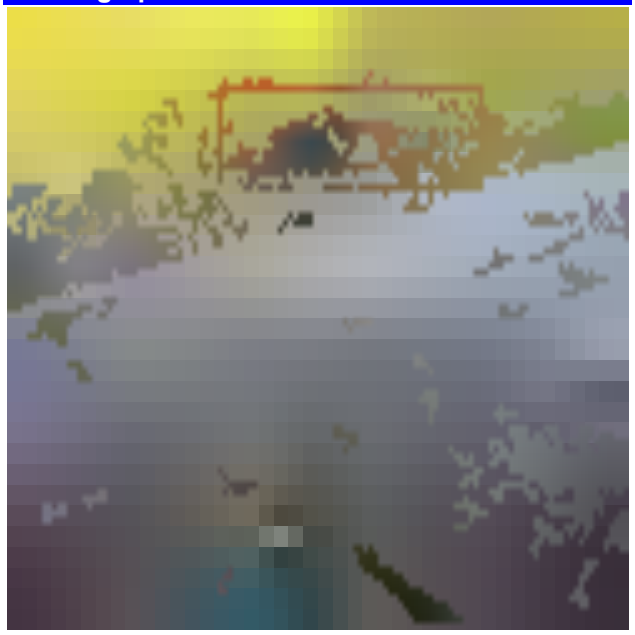
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1: Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118379

Building/Area :	Wherrew Intake PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrics	Access :	No Access (See Notes)
Description :	Rope seals & Flash Guards	Normal Use :	

Material Risk Assessment : 118379

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

Live electrics

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Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118382

Building/Area :	Wherrew Intake PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrics	Access :	No Access (See Notes)
Description :	Rope seals & Flash guards	Normal Use :	

Material Risk Assessment : 118382

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

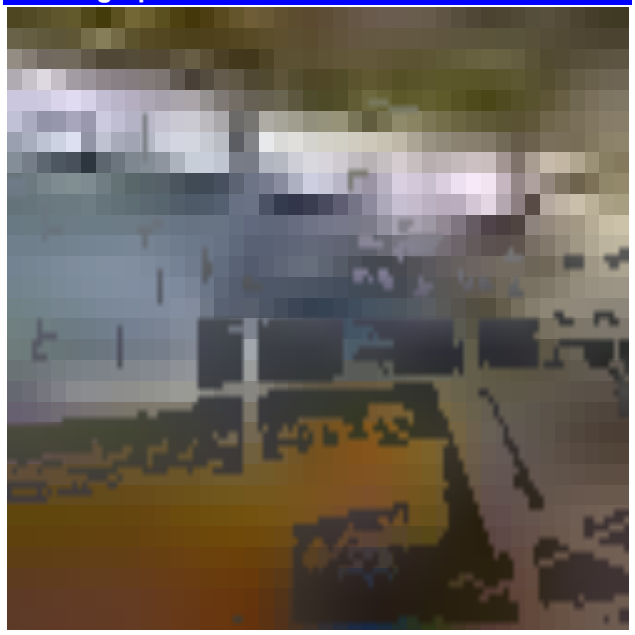
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118399

Building/Area :	Valve House 2	Sample No. :	
Room/Section :	Exterior	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Floor	Access :	Full Access
Description :	Slate debris	Normal Use :	

Material Risk Assessment : 118399

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	High Damage	3
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	6

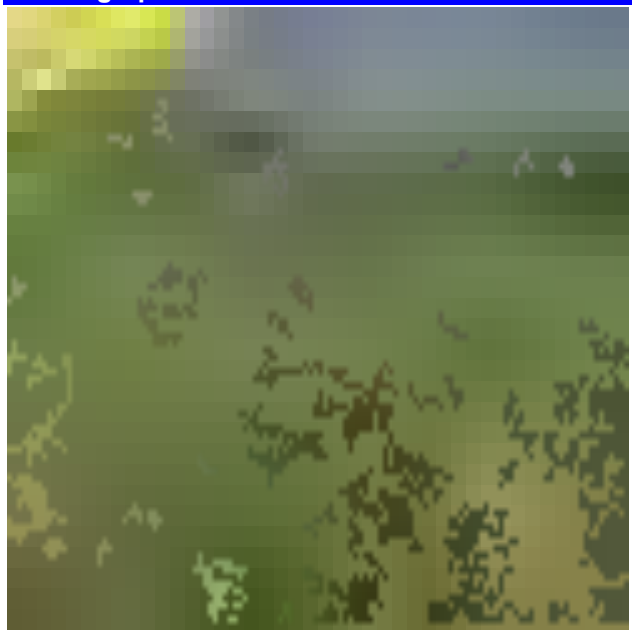
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Client and Survey Details : 10227

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118400

Building/Area :	Valve House 3	Sample No. :	
Room/Section :	Exterior	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Floor	Access :	Full Access
Description :	Slate debris	Normal Use :	

Material Risk Assessment : 118400

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	High Damage	3
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	6

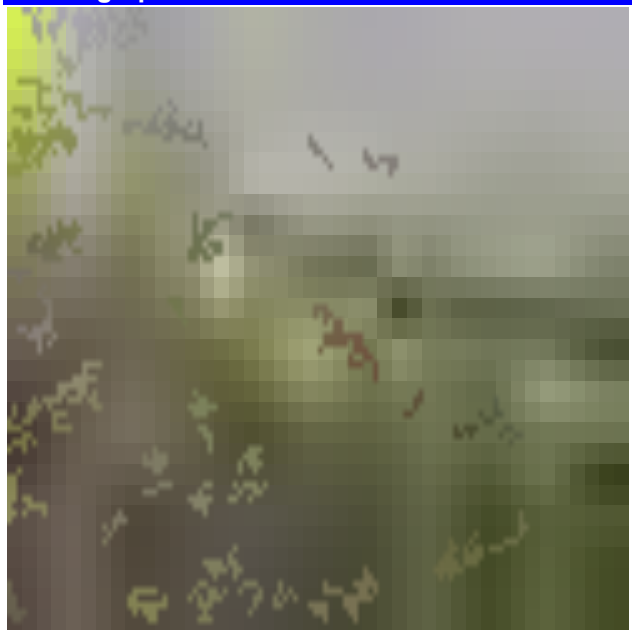
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118403

Building/Area :	Valve House 3	Sample No. :	GFB20250204009
Room/Section :	Valve House	Confirmation :	Sample Taken
Location :	Pipework	Access :	Full Access
Description :	Gaskets	Normal Use :	

Material Risk Assessment : 118403

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Textiles & Paper	2
Condition :	Low Damage	1
Surface Treatment :	Gasket	2
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118407

Building/Area :	Valve House 4	Sample No. :	GFB20250204011
Room/Section :	Valve House	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118407

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	High Damage	3
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118409

Building/Area :	Valve House 4	Sample No. :	
Room/Section :	Exterior	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	Slate debris	Normal Use :	

Material Risk Assessment : 118409

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	High Damage	3
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118427

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Storage heaters	Access :	No Access (See Notes)
Description :	Rope seals	Normal Use :	

Material Risk Assessment : 118427

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118431

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118431

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

No access to live equipment. Presumed asbestos Rope seals & flash guards if installed prior to 2000.

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118434

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118434

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed falsh guards, rope seals.

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		Method :	WI-02 & WI-03

Location Details : 118436

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Sky lights	Access :	No Access (See Notes)
Description :	Rope	Normal Use :	

Material Risk Assessment : 118436

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

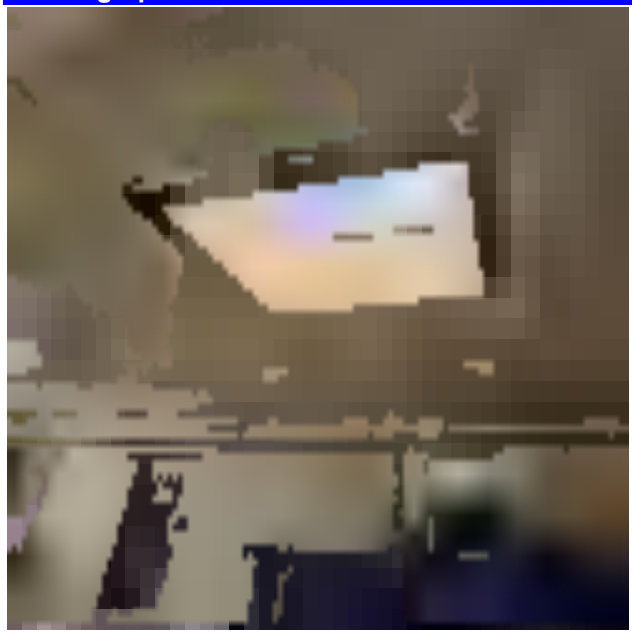
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed rope seals.

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Asbestos Containing Materials Risk Assessment
Refurbishment
in accordance with HSG264

5C Fingal Bay Business Park, Harry Reynolds Road, Balbriggan, Co. Dublin Tel: (01) 6905907 Fax: (01) 8020439 Email: info@ohss.ie Website: www.ohss.ie

Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118444

Building/Area :	Lisglesnnon Raw Water PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118444

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed falsh guards, rope seals.

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118459

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	
Room/Section :	Main room	Confirmation :	Presumed
Location :	Edwards & jones machine	Access :	No Access (See Notes)
Description :	Solid	Normal Use :	

Material Risk Assessment : 118459

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

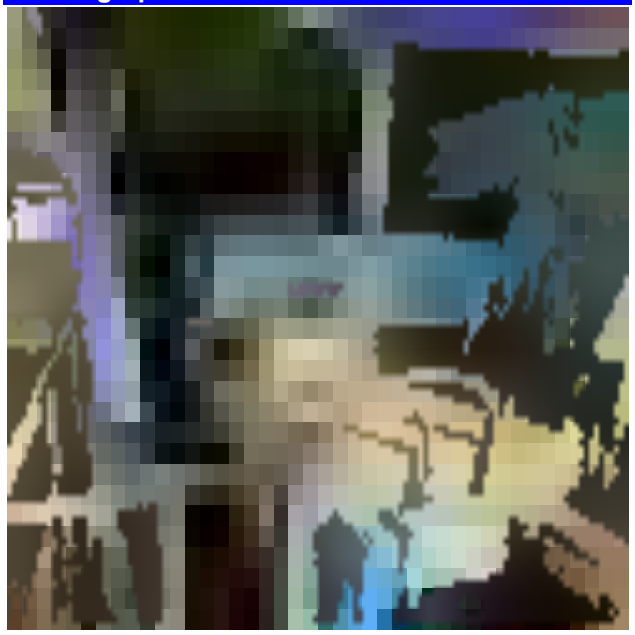
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

No access to machine internals.

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118463

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	
Room/Section :	Machine Room	Confirmation :	Presumed
Location :	Electrics	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118463

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118474

Building/Area :	Lough Talt WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Storage heaters	Access :	No Access (See Notes)
Description :	Rope seals	Normal Use :	

Material Risk Assessment : 118474

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118475

Building/Area :	Lough Talt WTP	Sample No. :	
Room/Section :	Site office	Confirmation :	Presumed
Location :	Electrics	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118475

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Investigate prior to disturbing

No access to live equipment

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118389

Building/Area :	Valve House 1	Sample No. :	GFB20250204008
Room/Section :	Valve House	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118389

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	Medium Damage	2
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	5

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118396

Building/Area :	Valve House 2	Sample No. :	
Room/Section :	Valve House	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Roof	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118396

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	Medium Damage	2
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	5

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118404

Building/Area :	Valve House 3	Sample No. :	
Room/Section :	Valve House	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Roof	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118404

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Medium Damage	2
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	5

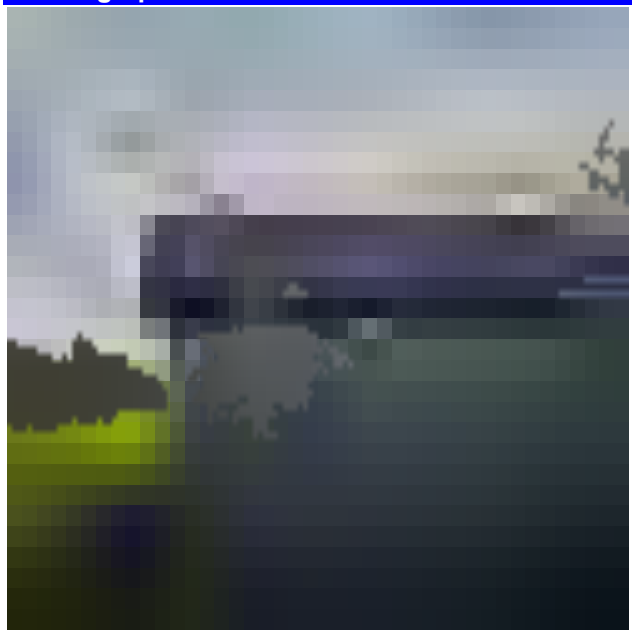
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118419

Building/Area :	Valve House 6	Sample No. :	GFB20250204015
Room/Section :	Valve house	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Slate & ridge tiles	Normal Use :	

Material Risk Assessment : 118419

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	Medium Damage	2
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	5

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118439

Building/Area :	Lisglesnnon WTP	Sample No. :	GFB20250205002
Room/Section :	Exterior	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118439

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

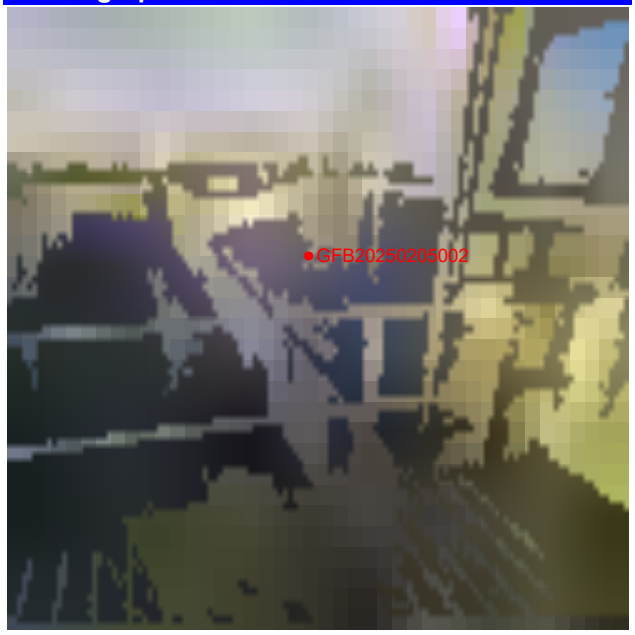
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1:Risk assessment required where work will disturb ACM's

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118447

Building/Area :	Lisglesnnon Raw Water PS	Sample No. :	GFB20250205004
Room/Section :	Exterior	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Slates & ridge tiles	Normal Use :	

Material Risk Assessment : 118447

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1:Risk assessment required where work will disturb ACM's

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118456

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	
Room/Section :	Exterior	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Roof	Access :	Full Access
Description :	Slates & ridge tiles	Normal Use :	

Material Risk Assessment : 118456

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

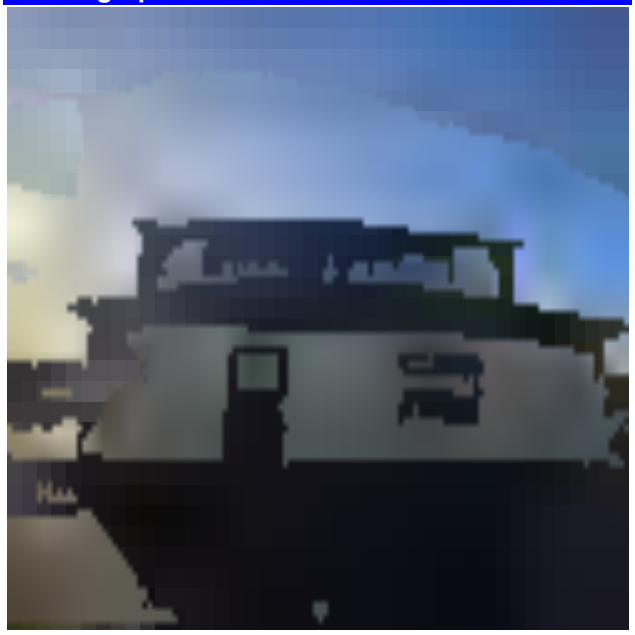
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1:Risk assessment required where work will disturb ACM's

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118457

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	GFB20250205007
Room/Section :	Exterior	Confirmation :	Sample Taken
Location :	Ground	Access :	Full Access
Description :	Slate debris	Normal Use :	

Material Risk Assessment : 118457

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118397

Building/Area :	Valve House 2	Sample No. :	
Room/Section :	Valve House	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118397

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

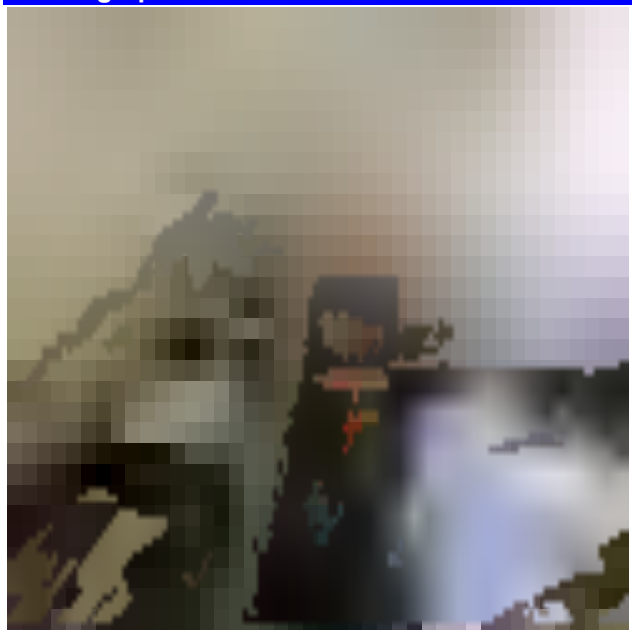
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118402

Building/Area :	Valve House 3	Sample No. :	
Room/Section :	Valve House	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Floor	Access :	Full Access
Description :	Slates	Normal Use :	

Material Risk Assessment : 118402

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

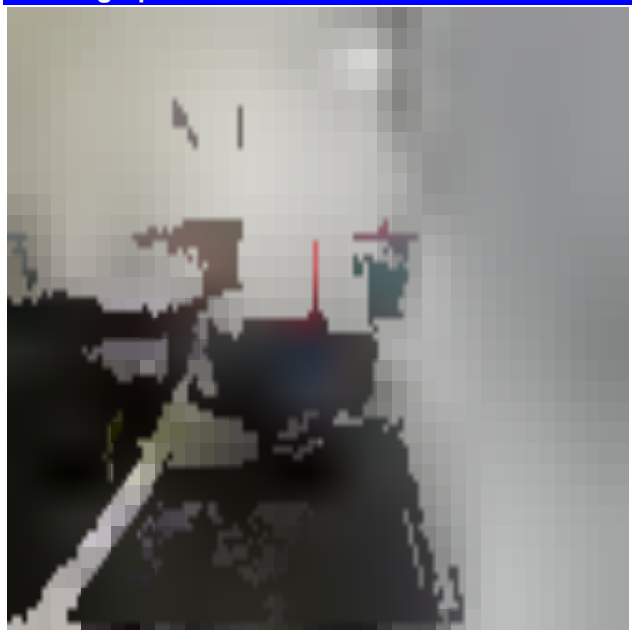
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Asbestos Containing Materials Risk Assessment
Refurbishment
in accordance with HSG264

5C Fingal Bay Business Park, Harry Reynolds Road, Balbriggan, Co. Dublin Tel: (01) 6905907 Fax: (01) 8020439 Email: info@ohss.ie Website: www.ohss.ie

Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118412

Building/Area :	Valve House 4	Sample No. :	
Room/Section :	Valve house	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	Slate & ridge tiles	Normal Use :	

Material Risk Assessment : 118412

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118415

Building/Area :	Valve House 5	Sample No. :	
Room/Section :	Valve house	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	Slate & ridge tiles	Normal Use :	

Material Risk Assessment : 118415

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Cement	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Client and Survey Details : 10227

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118422

Building/Area :	Valve House 6	Sample No. :	
Room/Section :	Valve house	Confirmation :	Visually Similar to Previously Sampled Mater
Location :	Floor	Access :	Full Access
Description :	Slate & ridge tiles	Normal Use :	

Material Risk Assessment : 118422

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos cement (AC)	1
Condition :	Low Damage	1
Surface Treatment :	Asbestos Cement	1
Quantity :		
	Material Assessment Score :	4

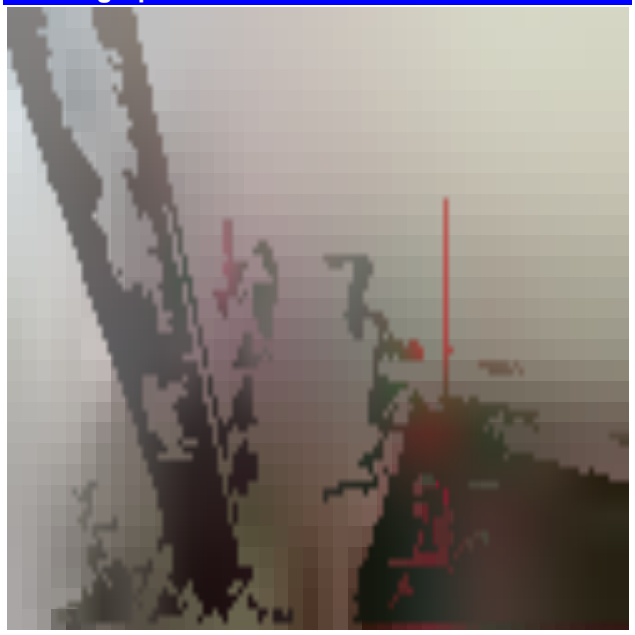
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118453

Building/Area :	Lisglesnnon WTP	Sample No. :	GFB20250205006
Room/Section :	Exterior	Confirmation :	Sample Taken
Location :	Roof	Access :	Full Access
Description :	Felt	Normal Use :	

Material Risk Assessment : 118453

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Asbestos Bitumen Products	1
Condition :	Low Damage	1
Surface Treatment :	Composite Materials Containing Asbestos	0
Quantity :		
	Material Assessment Score :	3

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118386

Building/Area :	Wherrew Intake PS	Sample No. :	GFB20250204003
Room/Section :	Store Room	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	Black floor tile	Normal Use :	

Material Risk Assessment : 118386

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Vinyl Floor Tiles & Bitumen	1
Condition :	Low Damage	1
Surface Treatment :	Composite Materials Containing Asbestos	0
Quantity :		
	Material Assessment Score :	3

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118387

Building/Area :	Wherrew Intake PS	Sample No. :	GFB20250204002
Room/Section :	Store Room	Confirmation :	Sample Taken
Location :	Floor	Access :	Full Access
Description :	White floor tile	Normal Use :	

Material Risk Assessment : 118387

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :	Vinyl Floor Tiles & Bitumen	1
Condition :	Low Damage	1
Surface Treatment :	Composite Materials Containing Asbestos	0
Quantity :		
	Material Assessment Score :	3

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118394

Building/Area :	Valve House 2	Sample No. :	GFB20250204017
Room/Section :	Valve House	Confirmation :	Sample Taken
Location :	Pipework	Access :	Full Access
Description :	Gaskets	Normal Use :	

Material Risk Assessment : 118394

		Score
Asbestos Type :	Chrysotile	1
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	1

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Remove ACM's Prior to Refurbishment or Demolition.

--N\A--

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Risk Register

The following areas could not be accessed and therefore in accordance with HSG264 should be presumed to contain ACM's.

RA Number	118379	**Location**	Wherrew Intake PS, Electrical room, Electrics
RA Number	118382	**Location**	Wherrew Intake PS, Electrical room, Electrics
RA Number	118427	**Location**	Lisglesnnon WTP, All areas, Storage heaters
RA Number	118431	**Location**	Lisglesnnon WTP, All areas, Electrical panels
RA Number	118434	**Location**	Lisglesnnon WTP, Electrical room, Electrical panels
RA Number	118436	**Location**	Lisglesnnon WTP, All areas, Sky lights
RA Number	118444	**Location**	Lisglesnnon Raw Water PS, Electrical room, Electrical panels
RA Number	118459	**Location**	Lisglesnnon Dewatering Building, Main room, Edwards & jones machine
RA Number	118463	**Location**	Lisglesnnon Dewatering Building, Machine Room, Electrics
RA Number	118474	**Location**	Lough Talt WTP, All areas, Storage heaters
RA Number	118475	**Location**	Lough Talt WTP, Site office, Electrics
RA Number	118384	**Location**	Wherrew Intake PS, Transformer room, Electrics
RA Number	118425	**Location**	Lisglesnnon WTP, All Ground floor, Floor

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118379

Building/Area :	Wherrew Intake PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrics	Access :	No Access (See Notes)
Description :	Rope seals & Flash Guards	Normal Use :	

Material Risk Assessment : 118379

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

Live electrics

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Asbestos Containing Materials Risk Assessment
Refurbishment
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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118382

Building/Area :	Wherrew Intake PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrics	Access :	No Access (See Notes)
Description :	Rope seals & Flash guards	Normal Use :	

Material Risk Assessment : 118382

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

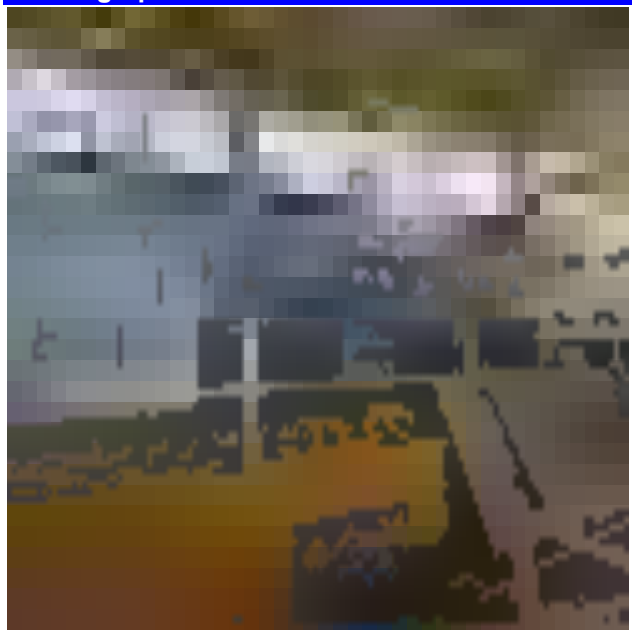
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118427

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Storage heaters	Access :	No Access (See Notes)
Description :	Rope seals	Normal Use :	

Material Risk Assessment : 118427

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118431

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118431

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

No access to live equipment. Presumed asbestos Rope seals & flash guards if installed prior to 2000.

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118434

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118434

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed falsh guards, rope seals.

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118436

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Sky lights	Access :	No Access (See Notes)
Description :	Rope	Normal Use :	

Material Risk Assessment : 118436

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

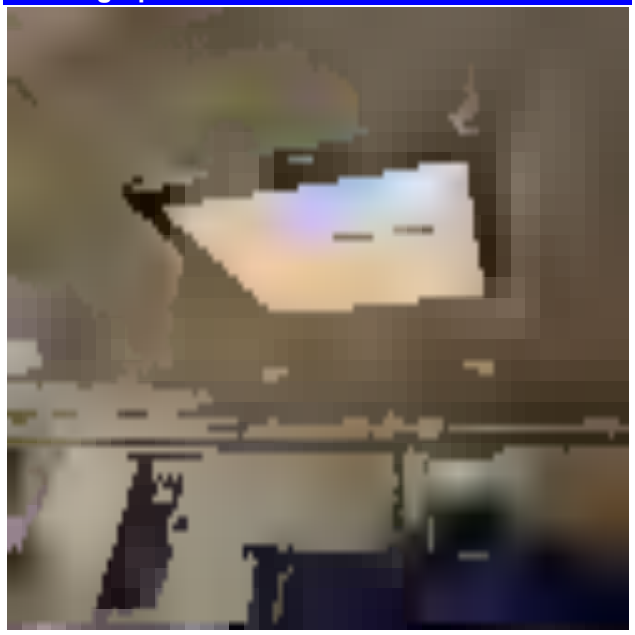
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed rope seals.

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118444

Building/Area :	Lisglesnnon Raw Water PS	Sample No. :	
Room/Section :	Electrical room	Confirmation :	
Location :	Electrical panels	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118444

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Presumed falsh guards, rope seals.

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Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118459

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	
Room/Section :	Main room	Confirmation :	Presumed
Location :	Edwards & jones machine	Access :	No Access (See Notes)
Description :	Solid	Normal Use :	

Material Risk Assessment : 118459

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

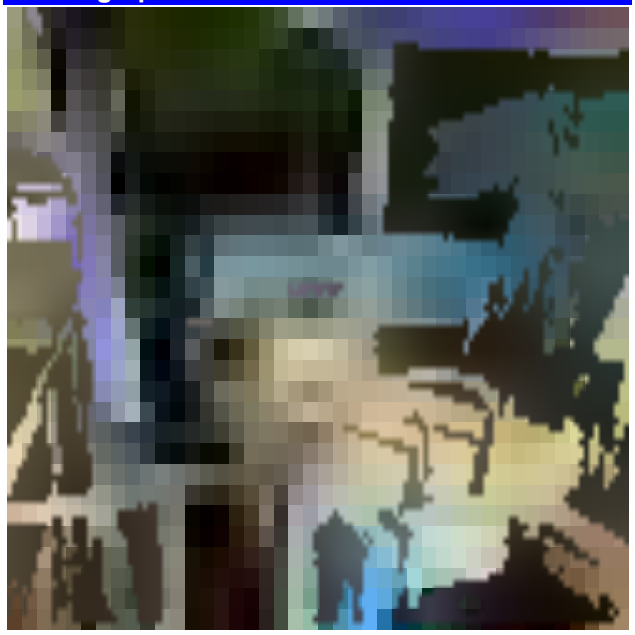
Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

No access to machine internals.

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Asbestos Containing Materials Risk Assessment
Refurbishment
in accordance with HSG264

5C Fingal Bay Business Park, Harry Reynolds Road, Balbriggan, Co. Dublin Tel: (01) 6905907 Fax: (01) 8020439 Email: info@ohss.ie Website: www.ohss.ie

Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118463

Building/Area :	Lisglesnnon Dewatering Building	Sample No. :	
Room/Section :	Machine Room	Confirmation :	Presumed
Location :	Electrics	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118463

	Score
Asbestos Type : Presumed ACM Present	6
Type Of Product :	0
Condition :	0
Surface Treatment :	0
Quantity :	
Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118474

Building/Area :	Lough Talt WTP	Sample No. :	
Room/Section :	All areas	Confirmation :	
Location :	Storage heaters	Access :	No Access (See Notes)
Description :	Rope seals	Normal Use :	

Material Risk Assessment : 118474

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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		Method :	WI-02 & WI-03

Location Details : 118475

Building/Area :	Lough Talt WTP	Sample No. :	
Room/Section :	Site office	Confirmation :	Presumed
Location :	Electrics	Access :	No Access (See Notes)
Description :	Live electrical equipment	Normal Use :	

Material Risk Assessment : 118475

		Score
Asbestos Type :	Presumed ACM Present	6
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	6

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Investigate prior to disturbing

No access to live equipment

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Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118384

Building/Area :	Wherrew Intake PS	Sample No. :	
Room/Section :	Transformer room	Confirmation :	
Location :	Electrics	Access :	No Access (See Notes)
Description :	Modern	Normal Use :	

Material Risk Assessment : 118384

		Score
Asbestos Type :	No Asbestos Found	0
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	0

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Modern equipment

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Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118425

Building/Area :	Lisglesnnon WTP	Sample No. :	
Room/Section :	All Ground floor	Confirmation :	
Location :	Floor	Access :	No Access (See Notes)
Description :	Beneath Ceramic tiles	Normal Use :	

Material Risk Assessment : 118425

		Score
Asbestos Type :	No Asbestos Found	0
Type Of Product :		0
Condition :		0
Surface Treatment :		0
Quantity :		
	Material Assessment Score :	0

Risk Rating
High Risk
Midium Risk
Low Risk
Very Low Risk
Very Low Risk

Removal/Encapsulation Estimate

To be completed by the estimating contractor

	Costs	Notes
Labour		
Equipment		
Disposal		
Analytical		
Total		

Photograph



Recommendations and Notes

Priority 1 : Investigate prior to disturbing

--N\A--

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Risk Register

Area(s) inspected during the survey where no ACM's where identified.

RA Number	118376	**Location**	Wherrew Intake PS, Entrance Lobby, Floor, walls & ceiling
RA Number	118377	**Location**	Wherrew Intake PS, Toilet, Floor, walls & ceiling
RA Number	118378	**Location**	Wherrew Intake PS, Electrical room, Floor, walls & ceiling
RA Number	118380	**Location**	Wherrew Intake PS, Main Room, Floor, walls & ceiling
RA Number	118383	**Location**	Wherrew Intake PS, Transformer Room, Floor, walls & ceiling
RA Number	118385	**Location**	Wherrew Intake PS, Store Room, Walls & ceiling
RA Number	118388	**Location**	Wherrew Intake PS, Exterior, Floor, walls & ceiling
RA Number	118390	**Location**	Valve House 1, Valve House, Roof
RA Number	118391	**Location**	Valve House 1, Valve House, Pipework
RA Number	118392	**Location**	Valve House 1, Valve House, Pipework
RA Number	118393	**Location**	Valve House 2, Valve House, Pipework
RA Number	118395	**Location**	Valve House 2, Valve House, Roof
RA Number	118398	**Location**	Valve House 2, Exterior, Walls & rainwater goods
RA Number	118401	**Location**	Valve House 3, Exterior, Walls & rainwater goods
RA Number	118405	**Location**	Valve House 3, Valve House, Roof
RA Number	118406	**Location**	Valve House 3, Valve House, Walls
RA Number	118408	**Location**	Valve House 4, Exterior, Walls & rainwater goods
RA Number	118410	**Location**	Valve House 4, Valve House, Roof
RA Number	118411	**Location**	Valve House 4, Valve House, Pipework
RA Number	118413	**Location**	Valve House 5, Exterior, Walls & rainwater goods
RA Number	118414	**Location**	Valve House 5, Valve House, Roof
RA Number	118416	**Location**	Valve House 5, Valve House, Pipework
RA Number	118417	**Location**	Valve House 5, Valve House, Walls
RA Number	118418	**Location**	Valve House 6, Exterior, Walls & rainwater goods

Risk Register

Area(s) inspected during the survey where no ACM's where identified.

RA Number	118420	**Location**	Valve House 6, Valve House, Walls
RA Number	118421	**Location**	Valve House 6, Valve House, Pipework
RA Number	118423	**Location**	Valve House 6, Valve House, Roof
RA Number	118424	**Location**	Lisglesnnon WTP, Entrance Lobby, Walls & ceiling
RA Number	118426	**Location**	Lisglesnnon WTP, Kitchen, Walls & ceiling
RA Number	118428	**Location**	Lisglesnnon WTP, Toilet, Walls & ceiling
RA Number	118429	**Location**	Lisglesnnon WTP, Entrance Lobby, Ceiling AHU
RA Number	118430	**Location**	Lisglesnnon WTP, Entrance hallway, Pipework
RA Number	118432	**Location**	Lisglesnnon WTP, Treatment room, Walls & ceiling
RA Number	118433	**Location**	Lisglesnnon WTP, Treatment room, Pipework
RA Number	118435	**Location**	Lisglesnnon WTP, Chemical mixing room & pump room, Walls & ceiling
RA Number	118437	**Location**	Lisglesnnon WTP, First floor offices & hallway, Walls & ceiling
RA Number	118438	**Location**	Lisglesnnon WTP, Water holding tanks, All areas
RA Number	118440	**Location**	Lisglesnnon WTP, Exterior, Rainwater goods
RA Number	118441	**Location**	Lisglesnnon WTP, First floor office 1, Floor
RA Number	118442	**Location**	Lisglesnnon Raw Water PS, Entrance & toilet, Floor, walls & ceiling
RA Number	118443	**Location**	Lisglesnnon Raw Water PS, Office, Floor, walls & ceiling
RA Number	118445	**Location**	Lisglesnnon Raw Water PS, Pump room, Floor, walls & ceiling
RA Number	118446	**Location**	Lisglesnnon Raw Water PS, Pump room, Pipework
RA Number	118449	**Location**	Lisglesnnon Raw Water PS, Exterior, Rainwater goods & soffit
RA Number	118450	**Location**	Lisglesnnon Raw Water PS, Exterior, Main Tank
RA Number	118451	**Location**	Lisglesnnon Raw Water PS, Exterior, Raw water Tank
RA Number	118452	**Location**	Lisglesnnon Raw Water PS, Attic, Roof
RA Number	118454	**Location**	Lisglesnnon WTP, Exterior, Tanks

Risk Register

Area(s) inspected during the survey where no ACM's where identified.

RA Number	118455	**Location**	Lisglesnnon Picket Fence Thickener, Exterior, Tank
RA Number	118458	**Location**	Lisglesnnon Dewatering Building, Main room, Floor, walls & ceiling
RA Number	118460	**Location**	Lisglesnnon Dewatering Building, Main room, Pipework
RA Number	118461	**Location**	Lisglesnnon Treated Water Contact Tank, Exterior, Main Tank
RA Number	118462	**Location**	Lisglesnnon Dewatering Building, Machine room, Floor, walls & ceiling
RA Number	118464	**Location**	Lisglesnnon Raw Water PS, Pump room, Pipework
RA Number	118465	**Location**	Lough Talt WTP, Barrel Strainer room, Floor, walls & ceiling
RA Number	118466	**Location**	Lough Talt WTP, Barrel Strainer room, Old Machinery
RA Number	118467	**Location**	Lough Talt WTP, Barrel Strainer room, Pipework
RA Number	118468	**Location**	Lough Talt WTP, Barrel Strainer room, Roof
RA Number	118469	**Location**	Lough Talt WTP, Barrel Strainer room, Exterior Containers
RA Number	118470	**Location**	Lough Talt WTP, Exterior, Tank
RA Number	118471	**Location**	Lough Talt WTP, Exterior, Tanks
RA Number	118472	**Location**	Lough Talt WTP, Exterior, Main Tank
RA Number	118473	**Location**	Lough Talt WTP, Site office, Floor, walls & ceiling
RA Number	118476	**Location**	Lough Talt WTP, Chorine room, Floor, walls & ceiling
RA Number	118477	**Location**	Lough Talt WTP, Fluorosilicic Acid room, Floor, walls & ceiling
RA Number	118478	**Location**	Lough Talt WTP, Site office, Roof

Materials Risk Assessment
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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118376 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Entrance Lobby
Location : Floor, walls & ceiling
Description : Solid concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118377 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Toilet
Location : Floor, walls & ceiling
Description : Solid concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118378 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Electrical room
Location : Floor, walls & ceiling
Description : Solid concrete
Sample No. : GFB20250205001
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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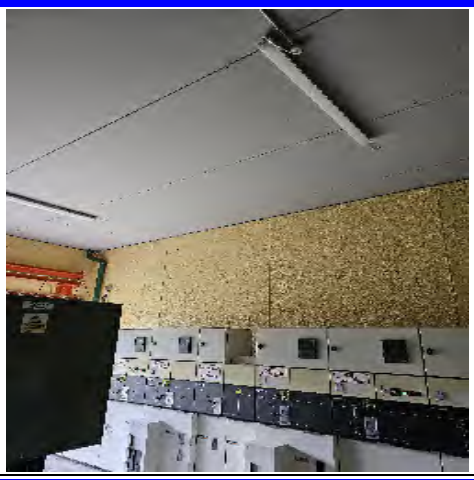
Location Details : 118380 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Main Room
Location : Floor, walls & ceiling
Description : Solid concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118383 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Transformer Room
Location : Floor, walls & ceiling
Description : Solid concrete, metal pipework
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118385 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Store Room
Location : Walls & ceiling
Description : Solid concrete, metal pipework
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118388 No Asbestos Found

Building/Area : Wherrew Intake PS
Room/Section : Exterior
Location : Floor, walls & ceiling
Description : Solid concrete, metal & plastic rainwater goods
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :

Location Details : 118390 No Asbestos Found

Building/Area : Valve House 1
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. : GFB20250204005
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118391 No Asbestos Found

Building/Area : Valve House 1
Room/Section : Valve House
Location : Pipework
Description : Gaskets
Sample No. : GFB20250204006
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118392 No Asbestos Found

Building/Area : Valve House 1
Room/Section : Valve House
Location : Pipework
Description : Insulation
Sample No. : GFB20250204007
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118393 No Asbestos Found

Building/Area : Valve House 2
Room/Section : Valve House
Location : Pipework
Description : Fibreglass Insulation
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118395 No Asbestos Found

Building/Area : Valve House 2
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118398 No Asbestos Found

Building/Area : Valve House 2
Room/Section : Exterior
Location : Walls & rainwater goods
Description : Metal & solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :

Location Details : 118401 No Asbestos Found

Building/Area : Valve House 3
Room/Section : Exterior
Location : Walls & rainwater goods
Description : Metal & solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118405 No Asbestos Found

Building/Area : Valve House 3
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118406 No Asbestos Found

Building/Area : Valve House 3
Room/Section : Valve House
Location : Walls
Description : DPC
Sample No. : GFB20250204010
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118408 No Asbestos Found

Building/Area : Valve House 4
Room/Section : Exterior
Location : Walls & rainwater goods
Description : Metal & solid
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118410 No Asbestos Found

Building/Area : Valve House 4
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. : GFB20250204014
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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		Method :	WI-02 & WI-03

Location Details : 118411 No Asbestos Found

Building/Area : Valve House 4
Room/Section : Valve House
Location : Pipework
Description : Gaskets
Sample No. : GFB20250204013
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118413 No Asbestos Found

Building/Area : Valve House 5
Room/Section : Exterior
Location : Walls & rainwater goods
Description : Metal & solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118414 No Asbestos Found

Building/Area : Valve House 5
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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in accordance with HSG264

5C Fingal Bay Business Park, Harry Reynolds Road, Balbriggan, Co. Dublin Tel: (01) 6905907 Fax: (01) 8020439 Email: info@ohss.ie Website: www.ohss.ie

Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

Location Details : 118416 No Asbestos Found

Building/Area : Valve House 5
Room/Section : Valve House
Location : Pipework
Description : Gaskets
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118417 No Asbestos Found

Building/Area : Valve House 5
Room/Section : Valve House
Location : Walls
Description : DPC
Sample No. : GFB20250204018
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118418 No Asbestos Found

Building/Area : Valve House 6
Room/Section : Exterior
Location : Walls & rainwater goods
Description : Metal, plastic & solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118420 No Asbestos Found

Building/Area : Valve House 6
Room/Section : Valve House
Location : Walls
Description : DPC
Sample No. : GFB20250204019
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118421 No Asbestos Found

Building/Area : Valve House 6
Room/Section : Valve House
Location : Pipework
Description : Gaskets
Sample No. : GFB20250204016
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118423 No Asbestos Found

Building/Area : Valve House 6
Room/Section : Valve House
Location : Roof
Description : Felt
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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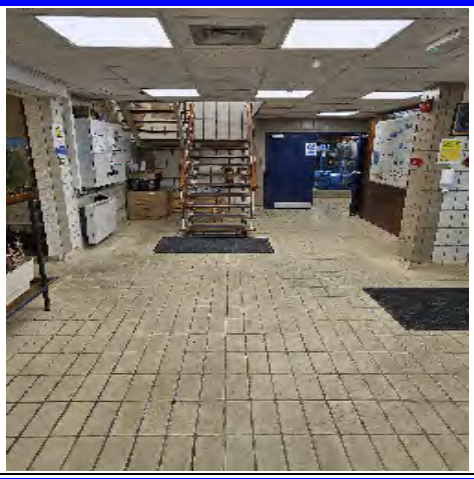
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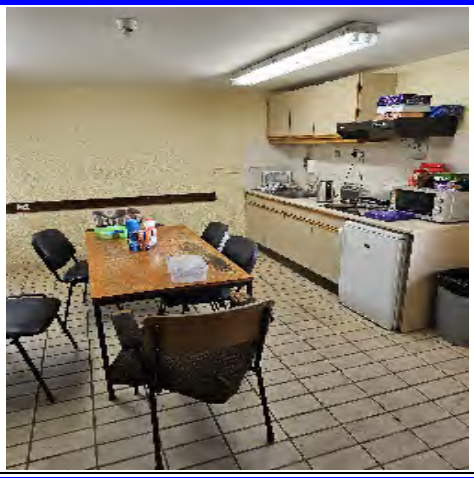
Location Details : 118424 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Entrance Lobby
Location : Walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118426 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Kitchen
Location : Walls & ceiling
Description : Solid & plasterboard
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118428 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Toilet
Location : Walls & ceiling
Description : Solid & plasterboard
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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		Method :	WI-02 & WI-03

Location Details : 118429 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Entrance Lobby
Location : Ceiling AHU
Description : Putty
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118430 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Entrance hallway
Location : Pipework
Description : Ruber Gaskets
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118432 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Treatment room
Location : Walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118433 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Treatment room
Location : Pipework
Description : Rubber gaskets
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118435 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Chemical mixing room & pump room
Location : Walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118437 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : First floor offices & hallway
Location : Walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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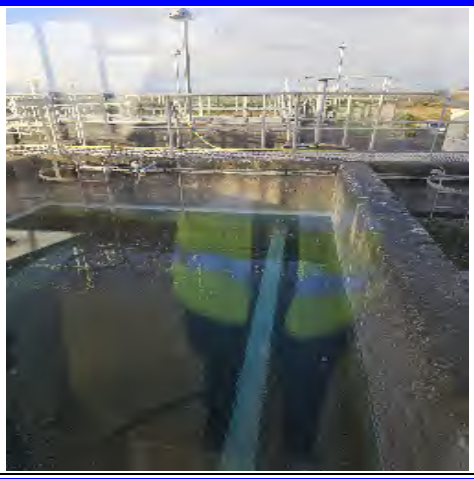
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Location Details : 118438 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Water holding tanks
Location : All areas
Description : Concrete & metal
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118440 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Exterior
Location : Rainwater goods
Description : Metal
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118441 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : First floor office 1
Location : Floor
Description : Cream & wine floor tile
Sample No. : GFB20250205003
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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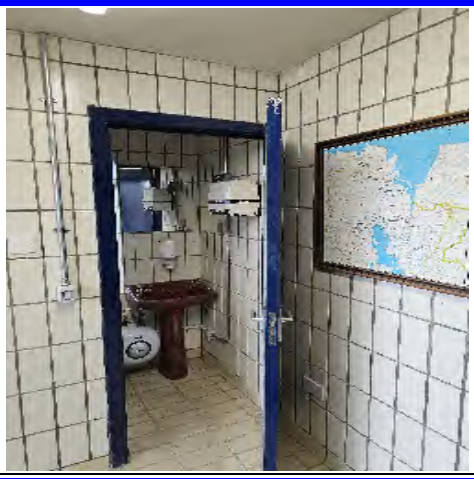
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Location Details : 118442 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Entrance & toilet
Location : Floor, walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118443 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Office
Location : Floor, walls & ceiling
Description : Solid
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118445 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Pump room
Location : Floor, walls & ceiling
Description : Solid
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118446 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Pump room
Location : Pipework
Description : Rubber gaskets
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118449 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Exterior
Location : Rainwater goods & soffit
Description : Metal and timber
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118450 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Exterior
Location : Main Tank
Description : Concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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		Method :	WI-02 & WI-03

Location Details : 118451 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Exterior
Location : Raw water Tank
Description : Concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118452 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Attic
Location : Roof
Description : Felt
Sample No. : GFB20250205005
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118454 No Asbestos Found

Building/Area : Lisglesnnon WTP
Room/Section : Exterior
Location : Tanks
Description : Solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



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		Method :	WI-02 & WI-03

Location Details : 118455 No Asbestos Found

Building/Area : Lisglesnnon Picket Fence Thickener
Room/Section : Exterior
Location : Tank
Description : Solid
Sample No. :
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes :



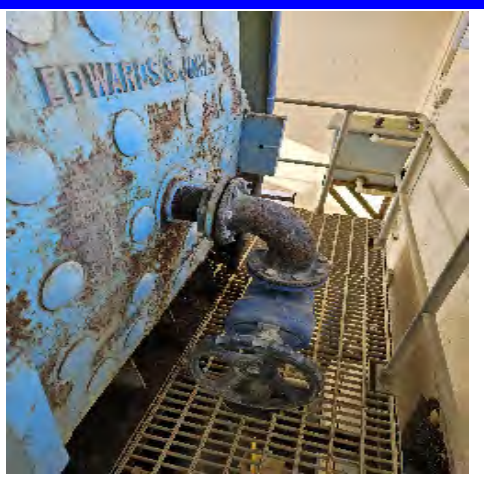
Location Details : 118458 No Asbestos Found

Building/Area : Lisglesnnon Dewatering Building
Room/Section : Main room
Location : Floor, walls & ceiling
Description : Solid
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118460 No Asbestos Found

Building/Area : Lisglesnnon Dewatering Building
Room/Section : Main room
Location : Pipework
Description : Gaskets
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes : Metal & rubber



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Location Details : 118461 No Asbestos Found

Building/Area : Lisglesnnon Treated Water Contact Tank
Room/Section : Exterior
Location : Main Tank
Description : Concrete
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



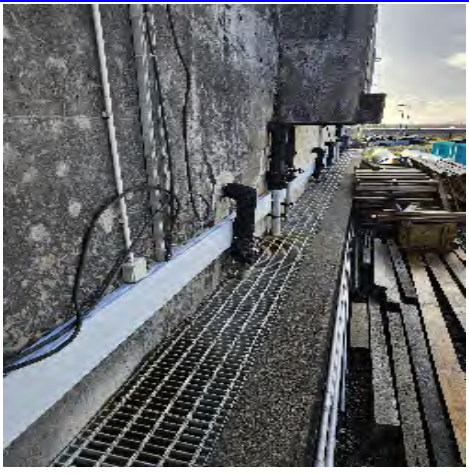
Location Details : 118462 No Asbestos Found

Building/Area : Lisglesnnon Dewatering Building
Room/Section : Machine room
Location : Floor, walls & ceiling
Description : Solid & plasterbaord
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118464 No Asbestos Found

Building/Area : Lisglesnnon Raw Water PS
Room/Section : Pump room
Location : Pipework
Description : Fibreglass insulation
Sample No. :
Confirmation :
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118465 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Barrel Strainer room
Location : Floor, walls & ceiling
Description : Solid & plasterbaord
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118466 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Barrel Strainer room
Location : Old Machinery
Description : No access to internals
Sample No. :
Confirmation : No Asbestos Detected
Access : Partial Access (Notes)
Normal Use :
Recommendations :
Notes :



Location Details : 118467 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Barrel Strainer room
Location : Pipework
Description : Rubber gaskets
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



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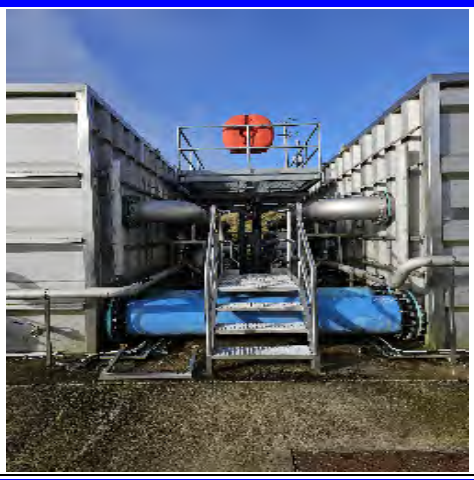
Location Details : 118468 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Barrel Strainer room
Location : Roof
Description : Felt
Sample No. : GFB20250205008
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes : Metal & rubber



Location Details : 118469 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Barrel Strainer room
Location : Exterior Containers
Description : Modern Equipment
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes : Metal & rubber



Location Details : 118470 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Exterior
Location : Tank
Description : Concrete
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



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Location Details : 118471 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Exterior
Location : Tanks
Description : Concrete & modern pipework
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



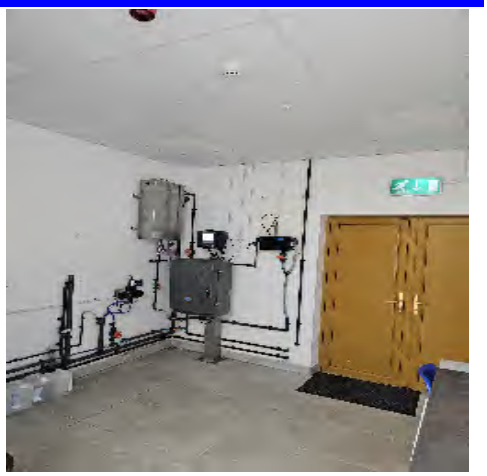
Location Details : 118472 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Exterior
Location : Main Tank
Description : Pipework Wrap
Sample No. : GFB20250205009
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118473 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Site office
Location : Floor, walls & ceiling
Description : Solid & plasterbaord
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



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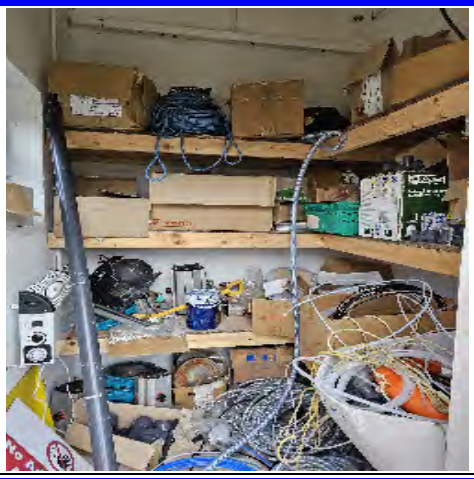
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Client and Survey Details : 10227

Client :	Irish Drilling Ltd	Date of Survey :	04-02-2025
Site :	Ballina Lough Talt WSZ Upgrade	Review Date :	04-02-2026
Address :		Surveyor :	Gavin Foran
		Method :	WI-02 & WI-03

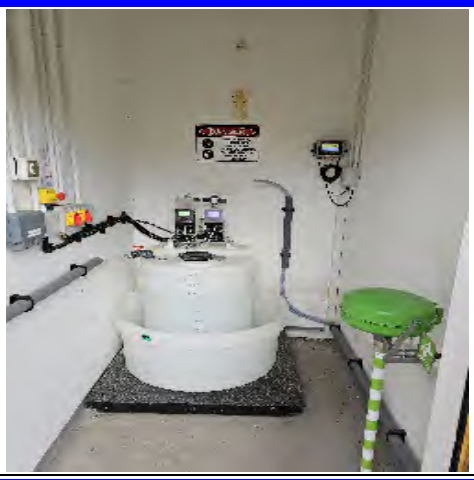
Location Details : 118476 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Chorine room
Location : Floor, walls & ceiling
Description : Solid & plasterbaord
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118477 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Fluorosilicic Acid room
Location : Floor, walls & ceiling
Description : Solid & plasterbaord
Sample No. :
Confirmation : No Asbestos Detected
Access : Full Access
Normal Use :
Recommendations :
Notes :



Location Details : 118478 No Asbestos Found

Building/Area : Lough Talt WTP
Room/Section : Site office
Location : Roof
Description : Felt
Sample No. : GFB20250205010
Confirmation : Sample Taken
Access : Full Access
Normal Use :
Recommendations :
Notes : Metal & rubber



While every effort was taken to insure the accuracy of this report we do not accept responsibility for any omissions or areas of the building not addressed in the report. This report is intended to assist in reducing the possibility of accidents and ill health by bringing to the client's attention identified asbestos containing materials. It is not implied that all other hazards are under control at the time of inspections.

Test Certificate

Certificate Number: 002465 Printed: 25-Mar-25

Client Details
Irish Drilling Ltd

Site Details
Ballina Lough Talt WSZ Upgrade

Job No: 42084
Date Received: 05-Feb-25
Date Tested: 07-Feb-25
Date Reported: 25-Mar-25
No. of Samples: 26
Specification: WI 05
Samples taken by: OHSS

Bulk Identification of Asbestos in Materials

Sample	Description	Asbestos Detected	Asbestos Type
GFB20250204001	Gasket from Main Room Pipework	Present	Chrysotile
GFB20250204001	Gasket from Main Room Pipework	Present	Crocidolite
GFB20250204002	White floor tile from Store Room Floor	Present	Chrysotile
GFB20250204003	Black floor tile from Store Room Floor	Present	Chrysotile
GFB20250204005	Felt from Valve House Roof	Not detected	
GFB20250204006	Gaskets from Valve House Pipework	Not detected	
GFB20250204007	Insulation from Valve House Pipework	Not detected	
GFB20250204008	Slates from Valve House Roof	Present	Chrysotile
GFB20250204009	Gaskets from Valve House Pipework	Present	Chrysotile
GFB20250204010	DPC from Valve House Walls	Not detected	
GFB20250204011	Slates from Valve House Roof	Present	Chrysotile
GFB20250204013	Gaskets from Valve House Pipework	Not detected	

Comments / Deviations from Standard Methods

...

1 The Bulk sample(s) referred to above were analysed for asbestos content using dispersion staining and polarised light microscopy in accordance with the requirements of HSG 248 and using OHSS Documented Work Instruction –WI 05 Bulk Sampling Analysis.

2 Any work (removal, repair etc.) involving asbestos containing materials must be carried out in accordance with the Safety Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010 and all other relevant national legislation.

3 In the case of samples supplied by the client, Occupational Hygiene and Safety Services Ltd. (OHSS) cannot accept responsibility for the sampling strategies employed and the sampling information supplied to OHSS. OHSS cannot accept responsibility for the interpretation of the sampling information contained in this report by any parties. Deviations to our standard methods, where agreed with the client are noted in the Comments section above.

4 Comments, observations and opinions are outside the scope of certification.

Analyst : Frances Shaw

Signed : Frances Shaw

Frances Shaw
For and on authority of OHSS

OHSS 5C, Fingal Bay Business Park, Harry Reynolds Rd, Balbriggan, Co. Dublin, K32 XT04
Tel : 01 6905907 Fax : 01 8020439 E-mail : info@ohss.ie Web : www.ohss.ie

Test Certificate

Certificate Number: 002465 Printed: 25-Mar-25

Client Details
Irish Drilling Ltd

Site Details
Ballina Lough Talt WSZ Upgrade

Job No: 42084
Date Received: 05-Feb-25
Date Tested: 07-Feb-25
Date Reported: 25-Mar-25
No. of Samples: 26
Specification: WI 05
Samples taken by: OHSS

Bulk Identification of Asbestos in Materials

Sample	Description	Asbestos Detected	Asbestos Type
GFB20250204015	Slate & ridge tiles from Valve house Roof	Present	Chrysotile
GFB20250204016	Gaskets from Valve House Pipework	Not detected	
GFB20250204017	Gaskets from Valve House Pipework	Present	Chrysotile
GFB20250204018	DPC from Valve House Walls	Not detected	
GFB20250204019	DPC from Valve House Walls	Not detected	
GFB20250205001	Solid concrete from Electrical room Floor, walls & ceiling	Not detected	
GFB20250205002	Slates from Exterior Roof	Present	Chrysotile
GFB20250205003	Cream & wine floor tile from First floor office 1 Floor	Not detected	
GFB20250205004	Slates & ridge tiles from Exterior Roof	Present	Chrysotile
GFB20250205005	Felt from Attic Roof	Not detected	
GFB20250205006	Felt from Exterior Roof	Present	Chrysotile
GFB20250205007	Slate debris from Exterior Ground	Present	Chrysotile

Comments / Deviations from Standard Methods

...

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Analyst : Frances Shaw

Signed : Frances Shaw

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Tel : 01 6905907 Fax : 01 8020439 E-mail : info@ohss.ie Web : www.ohss.ie

Test Certificate

Certificate Number: 002465 Printed: 25-Mar-25

Client Details
Irish Drilling Ltd

Site Details
Ballina Lough Talt WSZ Upgrade

Job No: 42084
Date Received: 05-Feb-25
Date Tested: 07-Feb-25
Date Reported: 25-Mar-25
No. of Samples: 26
Specification: WI 05
Samples taken by: OHSS

Bulk Identification of Asbestos in Materials

Sample	Description	Asbestos Detected	Asbestos Type
GFB20250205008	Felt from Barrel Strainer room Roof	Not detected	
GFB20250205009	Pipework Wrap from Exterior Main Tank	Not detected	
GFB20250205010	Felt from Site office Roof	Not detected	

Comments / Deviations from Standard Methods

...

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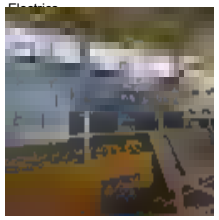
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Tel : 01 6905907 Fax : 01 8020439 E-mail : info@ohss.ie Web : www.ohss.ie



118379-Presumed ACM Present, Rope seals & Flash Guards from Electrical room



118382-Presumed ACM Present, Rope seals & Flash guards from Electrical room



118387-Chrysotile, White floor tile from Store Room Floor



118394-Chrysotile, Gaskets from Valve House Pipework



118397-Chrysotile, Slates from Valve House Floor



118381-Chrysotile & Crocidolite, Gasket from Main Room Pipework



118386-Chrysotile, Black floor tile from Store Room Floor



118389-Chrysotile, Slates from Valve House Roof



118396-Chrysotile, Slates from Valve House Roof



118399-Chrysotile, Slate debris from Exterior Floor

Drawing Legend										
Contains Asbestos		Not Accessed Presumed To Contain Asbestos		Drawing Revisions			Date	Scale	Project Number	Ballina Lough Talt WSZ Upgrade
Sample Point Location	*	No Access Under Fixed Floor Coverings Investigate Prior To Disturbance		Rev #	Revision Description	Date	19/02/2025	This drawing is for illustration purposes only	42084	
							Drawing No		Drawn By	
							1 of 2		Gavin Foran	

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118400-Chrysotile, Slate debris from Exterior Floor



118403-Chrysotile, Gaskets from Valve House Pipework



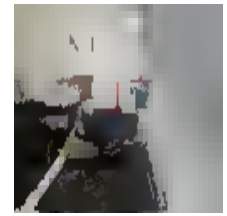
118407-Chrysotile, Slates from Valve House Roof



118412-Chrysotile, Slate & ridge tiles from Valve house Floor



118419-Chrysotile, Slate & ridge tiles from Valve house Roof



118402-Chrysotile, Slates from Valve House Floor



118404-Chrysotile, Slates from Valve House Roof



118409-Chrysotile, Slate debris from Exterior Floor



118415-Chrysotile, Slate & ridge tiles from Valve house Floor



118422-Chrysotile, Slate & ridge tiles from Valve house Floor

Drawing Legend				Drawing Revisions			Date	Scale	Project Number		
Contains Asbestos		Not Accessed Presumed To Contain Asbestos		Rev #	Revision Description	Date	19/02/2025	This drawing is for illustration purposes only	42084	Ballina Lough Talt WSZ Upgrade	SAFETY CONSULTANTS OHSS
Sample Point Location	*	No Access Under Fixed Floor Coverings Investigate Prior To Disturbance					Drawing No		Drawn By		QMF 139 Rev 1
							1 of 2		Gavin Foran		



118427-Presumed ACM Present, Rope seals from All areas Storage heaters



118434-Presumed ACM Present, Live electrical equipment from Electrical room Electrical panels



118439-Chrysotile, Slates from Exterior Roof



118447-Chrysotile, Slates & ridge tiles from Exterior Roof



118453-Chrysotile, Felt from Exterior Roof



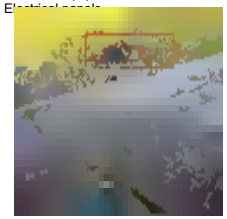
118431-Presumed ACM Present, Live electrical equipment from All areas Electrical panels



118436-Presumed ACM Present, Rope from All areas Sky lights



118444-Presumed ACM Present, Live electrical equipment from Electrical room Electrical panels



118448-Chrysotile, Broken slates from Exterior Ground surrounding buidling



118456-Chrysotile, Slates & ridge tiles from Exterior Roof

Drawing Legend				Drawing Revisions			Date	Scale	Project Number	
Contains Asbestos		Not Accessed Presumed To Contain Asbestos		Rev #	Revision Description	Date	19/02/2025	This drawing is for illustration purposes only	42084	Ballina Lough Talt WSZ Upgrade
Sample Point Location	*	No Access Under Fixed Floor Coverings Investigate Prior To Disturbance					Drawing No		Drawn By	
							1 of 2		Gavin Foran	

QMF 139 Rev 1



118457-Chrysotile, Slate debris from Exterior Ground



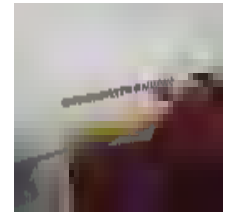
118463-Presumed ACM Present, Live electrical equipment from Machine Room Electrics



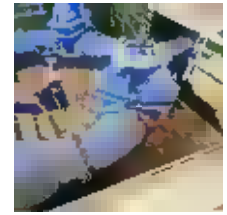
118475-Presumed ACM Present, Live electrical equipment from Site office Electrics



118459-Presumed ACM Present, Solid from Main room Edwards & jones machine



118474-Presumed ACM Present, Rope seals from All areas Storage heaters



121935-Chrysotile & Crocidolite, Gasket from Main Room Pipework

Drawing Legend				Drawing Revisions			Date	Scale	Project Number	
Contains Asbestos		Not Accessed Presumed To Contain Asbestos		Rev #	Revision Description	Date	19/02/2025	This drawing is for illustration purposes only	42084	Ballina Lough Talt WSZ Upgrade
Sample Point Location	*	No Access Under Fixed Floor Coverings Investigate Prior To Disturbance					Drawing No		Drawn By	
							1 of 2		Gavin Foran	

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Appendix 12
GPR Utility Survey

Note: GPR Utility Survey included as a separate zipped file.

Appendix 13
Topographical Survey

Note: Topographical Survey included as a separate zipped file.